

UG DRILLING

003973

Lithologic Log

Date: 16/01/90 Logged By: PL

| Case | From | | To | | Recov. | | No. | | Unit | Description | |
|------|------|----|------|----|--------|----|------|-------|------|-------------|--|
| | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | | | 30 |
| | | | | | | | | | | | strongly silicified, qtz/feld + sericite bands. No apparent sulphides. P _{S2} is 11.0 AX nearly throughout entire interval, locally is steep but can't see gradual change. |
| | | | | | | | | | | | Lesser - (35.5-36; 46.5-48.0) Dark grey/green, aphanitic, porphyritic, probably dioritic dykes. Contacts in main unit not present. Aphanitic groundmass w 5% sub to euhedral white \leq 2mm plagioclase phenocrysts. |
| | | | | | | | | | | | Entire interval is probably a zone w many small faults/fractures. Rocks is broken into pieces averaging 20-25cm but there are many rubble zones & lost core between these pieces. |
| | | | | | | | | | | | 25-28 - 1ft lost; 30-32 - 1ft lost; 33-35 - 1ft lost; 37-41.5 - 1.5ft lost; 41.5-43 - 0.5ft lost; 43-45 - 1.5ft lost; 46-46.5 - 0.5ft lost; 47.5-50 - 1ft lost; 50-52.5 - 1ft lost; 52.5-54.5 - 1.5ft lost; 54.5-59 - 3ft lost - local gorge; 59-62 - 2.5ft lost - gorged. |
| | 612 | | 6190 | | | | 1016 | 21611 | | | Continuation of fault zone |
| | | | | | | | | | | | Very strongly silicified light grey/green to white sericite/bio weakly chloritic schist. Rocks is completely silicified - can see lamination of sericite + qtz/feld - 2-3% bio flakes, 1% v. fine Py. Qtz veins w 1% Py |

| Sec | From | | To | | Recov. | No. | Unit | Description | |
|-----|------|----|----|----|--------|-----|---------|---|----|
| | 10 | 14 | 18 | 22 | | | | | 24 |
| | | | | | | | | throughout unit. V. strongly broken & rubble - TOI-63 0.5 At last ; 63-65- 1.5ft lost; 65-EUI 2ft lost. | |
| | 69 | 0 | 73 | 0 | | 107 | 2E13141 | ± 7 Very High Grade | |
| | | | | | | | | Hard, pyritic, sph/gn bearing, weakly siliceous, barritic massive sulphides/sulphates. Rocks is weakly P2 laminated locally. 25-30% maroon sph±gn, 30-40% f.g. to mg. euhedral Py, 25-30% white barite/gtz. Higher Ba % age at top of hole - gradually decreases downhole. lower contact is gradational as next unit is a mixed unit. Core is strongly broken - Good recovery. local irregular Po rich bands. Est Pb+Zn 12-15% | |
| | 73 | 0 | 78 | 0 | | 108 | 11E101 | ± 4 (2E4) 70/30 % | |
| | | | | | | | | Very soft, strongly weathered, grey on outside, pistachio green on inside metabasite which contains ~30% high grade sulphide fragments. Fragments are sph/gn rich pyritic massive sulphides similar to following unit. 77-EUI. Gouged & white w/ pistachio green tinge - strongly sericitized. lower contact sharp but broken - Entire interval is gouged & v. strongly broken - Good recovery. | |

DDH F-9.0-0.4
2 8CURRAGH RESOURCES INC.
Lithologic LogPage 6Date: 16/01/90 Logged By: PL

| Core | From | | To | | Recov. | | No. | | Unit | | Description |
|------|------|----|-----|----|--------|----|-----|-----|-------|----|---|
| | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 34 | |
| | 78 | 0 | 80 | 0 | | | | 09 | 2F4 | | ± 1FO V. High Grade |
| | | | | | | | | | | | Hard, sph/gn bearing, pyritic, v. high grade buckshot facies massive sulphides. Core is 60% dark grey/maroon sph/gn rich aphanitic sulphides + 40% fig. euhedral Py. At TOI- 78.5 have several metabasite pistachio green blebs. Lower contact is powdery & gouged but sharp (powdery for 0.5 ft) Core strongly buckles. Est Pb+Zn 25-30% |
| | 80 | 0 | 86 | 5 | | | | 110 | 2G431 | | Vers high grade |
| | | | | | | | | | | | Hard, v. weakly PS2 laminated, sph/gn rich, pyritic, siliceous, barritic massive sulphides/sulphates. 40-50% white qtz/barrite, 25-30% maroon specks of sph & local silver gn specks, 20-25% fig. euhedral Py. Core is weakly broken. Good recovery. Lower contact sharp but gouged & powdery on next unit. Est Pb+Zn 12-15% |
| | 86 | 5 | 126 | 6 | | | | 111 | 2D101 | | (2F4) 98/2% |
| | | | | | | | | | | | Hard non-PS2 laminated, pyritic, weakly sph/gn bearing quartzite. 50-60% white to greyish qtz, 40-50% fig. Py. Gn ± sph found in 5% qtz veins as blebs + also as grey & maroon spots on qtz. |

| Code | From | | To | | Recov. | | | No. | | | Unit | Description |
|------|-------|----|-------|----|--------|----|----|-----|-------|------|------|---|
| | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 34 | | |
| | | | | | | | | | | | | 120-EOI - occasional ≤ 10 cm buckshot facies bands w 40-50% massive Sph/Gn + 50-60% euhedral Py specks - lower contact gradational over 1ft as rock gets more massive. Core weakly broken - local ≤ 0.5 ft gouged zones. Good recovery. Est Pb+Zn 3-4% |
| | 1.216 | 6 | 1.421 | 0 | | | | | 1.221 | 5.74 | | $\pm 6 \pm 1 \pm 8 \pm 9$ (214) 99/1% |
| | | | | | | | | | | | | This unit changes on a cm scale to dm scale. Massive pyritic, Sph/Gn bearing massive sulphides - Irregular Po bands throughout interval (except in baritic zone). 140-142 - 5% black Mt blebs - Locally is strongly siliceous (similar to previous unit). 129.5-131.5 - 10-15% Bast Qtz. Entire interval is weakly siliceous (5% Qtz) + high grade. Est Pb+Zn - 10-12%. Sem buckshot lense at upper contact. Lower contact gradational. Marked by increased silica content + absence of Mt. Interval weakly broken - Good recovery. 1% Sp in Po rich areas. |
| | 1.420 | | 1.59 | 5 | | | | | 1.321 | 0.01 | | ± 9 (1081) 90/10% |
| | | | | | | | | | | | | Hard, locally weakly Ps ₂ laminated pyritic, weakly Sph/Gn bearing quartzite - 50% white to greyish Qtz, 50% f.g. euhedral Py. Tr. Sp blebs. 6-8% Sph/Gn in |

| Code | From | | To | | Recov. | No. | Unit | Description | | |
|------|------|----|------|----|--------|-----|------|---|----|----|
| | 10 | 14 | 16 | 20 | | | | | 22 | 24 |
| | | | | | | | | spots & locally as blebs in qtz veins, also interstitial to Py. local P ₂ laminated green & brown chloritic & biotitic strongly silicified (soft in one band) schist. (May be protolith of quartzite?) lower contact sharp - marked by appearance of Mt. Core weakly broken - Good recovery. Est Pb+Zn 3-4% | | |
| | 1595 | | 1615 | 4 | | 1A | 2E18 | ± 4 ± 1 (2F4) 90/10% | | |
| | | | | | | | | Hard weakly foliated, porphyritic, Mt bearing, weakly sph/Gr bearing, w/ky siliceous massive sulphides. 80-85% f. to med. g. subequal Py, 10-15% grey qtz, 3-5% black stoched Mt blebs // P ₂ . 6-8% sph/Gr mixed w/ Mt, interstitial to Py. Core weakly broken. Good recovery. lower contact gradational as qtz %ase increases & Mt decreases. 10% buckshot facies massive sulphides w/ 30-40% maroon sph ± Gr Est Pb+Zn 4-5% | | |
| | 1654 | | 1716 | 4 | | 1S | 2D10 | ± 8 | | |
| | | | | | | | | Hard weakly P ₂ laminated, porphyritic, med. sph/Gr bearing, locally Mt bearing, quartzite. 60-70% Py bands, 30-40% white qtz bands - 5-10% interstitial maroon sph ± Gr & silver specks. Local massive to semi massive bands w/ 3-5% Mt. Core weakly broken. Good recovery. | | |

| Sec | From | | To | | Recov. | | No. | | Unit | | Description | |
|-----|------|------|----|------|--------|----|-----|-----|------|------|-------------|--|
| | 1 | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | | 34 |
| | | | | | | | | | | | | Lower contact gradational as gtz bands get darker. Est Pb+Zn 3-4% . Tn-1% (py blebs) |
| | | 1.76 | 4 | 1.84 | 3 | | | 1.6 | 2 | DB5 | | Gouge at lower contact |
| | | | | | | | | | | | | Hard PS2 laminated pyritic, sph/ln bearing, carbonaceous quartzite. 60-65% med. grey gtz w poorly defined, silicified carbonaceous bands. 25-30% irregular py bands & blebs - 10-12% v.f.g. maroon & silver sph/ln specks, forming stringers. TOI- 179- 40% py & 6-8% sph/ln. Lower contact marked by gouge zone at 183.8-EOI & is sharp. Core weakly broken - Good recovery. Est Pb+Zn 5-6% |
| | | 1.84 | 3 | 1.94 | 0 | | | 1.7 | 2 | E114 | | BXA (ZF4) 70/30 % |
| | | | | | | | | | | | | Hard, pyritic, sph/ln bearing, siliceous, brecciated massive sulphides. 75-80- f.g. py, 10-15% interstitial py (to fragments). 191.0 - EOI- 50-60% maroon sph fragments of buckshot facies w 40-40% subequal py - Has 10-15% interstitial gtz as well. Lower contact gradational over 30cm where rock becomes more siliceous, carbonaceous & banded. Core mod. broken - Good recovery Est Pb+Zn - 10-12% (Overall) |

| Sec | From | | To | | Recov. | | No. | | Unit | | Description |
|-----|------|-------|----|-------|--------|----|-----|----|------|------|---|
| | 1 | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | |
| | | 1,940 | | 2,095 | | | | | 18 | 2A04 | ± BXA |
| | | | | | | | | | | | Hard, silicified, carbonaceous, pyritic, weakly sph/Gn bearing schist. 50-60% dark grey silicified carbonaceous bands, 30-35% light grey qtz/feld & silicified sericite bands, 10% diss lg or in irregular bands, 5-6% maroon sph/Gn stringers. Core is very strongly broken & gouged frequently. Lower contact is gouged (208-209.5). S2 plane is med grey & talcose. Brecciated locally. Est Pb+Zn - 2-3% Good recovery |
| | | 2,095 | | 2,180 | | | | | | 1K14 | |
| | | | | | | | | | | | Hard, PS2 laminated, sph/Gn bearing, sericitized, siliceous weakly pyritic schist. PS2 well defined by 30-40% white qtz/feld bands & 60-70% silicified light grey sericite bands & 10-12% maroon sph/Gn stringers. PS2 plane is light grey & med soft. Entire interval is strongly broken mostly // PS2. Good recovery. Est Pb+Zn - 5-6% |
| | | | | | | | | | | | 218 EOH |

DIAMOND DRILL CORE LOG

Date: Jan 15/1990

DDH 90F-05

Hole Number: DDH 90F-05

Reference Fabric Orientation Diagram: _____

Project: Faro Fill in Drilling

Location: Faro Pit "S" Phase

Section ~~Station~~: 125+000

Ferr. Plane Co-ords.: 8211.696 N

14607.346 E

Grid Co-ords: _____

Elevation: 3550.378

All symmetry determinations looking

Total Depth: 154'

_____ with _____ dipping

Inclination: 90°

_____ with dip azimuth _____.

Purpose: To better Delineate South Phase One

Reason hole Terminated: Footwall was Drilled 20'

Logged by: Peter Ledwidge

Date(s) Logged: _____

Drilling Contractor: Advanced

Hole Cemented: No Steel down Hole: No

| Size | CORE From | To |
|------|-----------|------|
| Bwl. | 0 | 5 |
| BQ | 5 | 154' |

Collar Cased and Capped: _____

Assay Lab: Northern Analytical

Certificate No's: _____

Started: _____ Completed: _____

DDH F-90-05
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Logged by P. Hedwidge

ASSAY LOG (SAMPLER'S COPY)

Date 18/01/90

Sampled by P. Hedwidge

| CODE | FROM | | TO | | SAMPLE | | INTR. | | REC (m) | | UNIT | | DESCRIPTION |
|------|------|----|-----|----|--------|----|-------|----|---------|----|----------|----|--------------------------------------|
| | 10 | 14 | 16 | 20 | 22 | 26 | 28 | 30 | 32 | 34 | 36 | 40 | |
| | 121 | 0 | 124 | 6 | 49 | 56 | 18 | | | | 21D101 | | ± 9 |
| | 124 | 6 | 128 | 5 | | 16 | 19 | | | | 21D141 | | (2L0) |
| | 128 | 5 | 132 | 4 | | 17 | 10 | | | | " | | |
| | 132 | 4 | 136 | 4 | | 17 | 11 | | | | " | | |
| | 136 | 4 | 139 | 4 | | 17 | 12 | | | | 21H141 | | (2E4 ± 1) (2E0 ± 4) 45/45/10% |
| | 152 | 5 | 156 | 3 | | 17 | 13 | | | | 11D12911 | | ± 11, ± 4 Beginning of fault zone |
| | 156 | 3 | 160 | 0 | | 17 | 14 | | | | " | | " |
| | 160 | | 163 | 8 | | 17 | 15 | | | | 21H14131 | | (2F4) (2E4) Equal/Unequal Fault zone |
| | 163 | 8 | 167 | 5 | | 17 | 16 | | | | " | | " |
| | 167 | 5 | 172 | 0 | | 17 | 17 | | | | 11D1291 | | ± 4 ± 1 End of fault zone |
| | 172 | 0 | 176 | 5 | | 17 | 18 | | | | " | | " |
| | 176 | 5 | 181 | 0 | | 17 | 19 | | | | " | | " |
| | 181 | 0 | 185 | 5 | | 18 | 10 | | | | " | | " |
| | 185 | 5 | 190 | 0 | | 18 | 11 | | | | " | | " |
| * | 190 | | 194 | 7 | | 18 | 12 | | | | 21A41 | | |
| | 194 | 7 | 199 | 4 | | 18 | 13 | | | | " | | |
| | 199 | 4 | 110 | 4 | | 18 | 14 | | | | " | | |
| | 110 | 4 | 110 | 8 | | 18 | 15 | | | | " | | |
| | 110 | 8 | 111 | 3 | | 18 | 16 | | | | " | | |
| | 111 | 3 | 111 | 8 | | 18 | 17 | | | | " | | |
| | 111 | 8 | 112 | 2 | | 18 | 18 | | | | " | | |
| | 112 | 2 | 112 | 7 | | 49 | 15 | 18 | 19 | | " | | |

DDH F-90-05
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CURRAGH RESOURCES INC.
Structural Log

Date: 18/01/90 Logged By: P. Ledwidge

| Code | From | | To | | Feature | S ₀ Dip Direct. | S ₁ Dip Direct. | S ₂ Dip Direct. | | Description | | | | |
|------|------|----|----|------|---------|----------------------------|----------------------------|----------------------------|----|-------------|----|----|----|-------------------------------|
| | 10 | 14 | 16 | 20 | | | | 22 | 24 | | 26 | 28 | 32 | 34 |
| | | | | 18 | P512 | | | | | 518 | | | | P52-compositional laminations |
| | | | | 24 | " | | | | | 219 | | | | " |
| | | | | 40 | " | | | | | 810 | | | | " |
| | | | | 53 | " | | | | | 615 | | | | " |
| | | | | 73 | " | | | | | 812 | | | | " |
| | | | | 88 | " | | | | | 46 | | | | " |
| | | | | 1105 | " | | | | | 812 | | | | lithon |
| | 1112 | | | 1124 | " | | | | | | | | | 0-10 - lithons |
| | | | | 1129 | " | | | | | 415 | | | | lithon |
| | | | | 1134 | " | | | | | 810 | | | | lithon |
| | 1134 | | | 1154 | " | | | | | | | | | 90-90 lithon |
| | | | | 1152 | " | | | | | 910 | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

| Code | From | To | Recov. | No. | Unit | Description | | | | | |
|------|------|-----|--------|-----|------|-------------|----|----|----|----|---|
| 1 | 10 | 14 | 16 | 20 | 22 | 24 | 26 | 28 | 30 | 34 | 36 |
| | 0 | 50 | | 01 | | | | | | | Casing - No return |
| | 50 | 210 | | 02 | 1E18 | | | | | | ±4 |
| | | | | | | | | | | | Soft PS ₂ laminated med green + grey to light beige weakly to strongly sericitized, moderately chloritized, gtz/feld, bio, musc schist. Core ranges from: 70-80% light grey-green gtz feld, chloritized sericitized bands w 5% light beige sericite stringers, 5% v.f.g. bio flakes 11 PS ₂ + 15-20% ≤ 1cm chlorite blebs stretched 3:1 11 PS ₂ ; to: light beige w 10-15% chlorite blebs, 50-60% light beige sericite bands + 20-30% white gtz feld bands. Core changes on cm to dm scale. PS ₂ plane i) light to med grey + falcose. Lower contact gouged. Interval med to strongly broken 11 PS ₂ - PS ₂ steep + constant. 5-7- 1ft lost - rubble from 6-9; 19-24- 1ft lost. Gouge at 19.7 - EOE. |
| | 210 | 246 | | 03 | 2D10 | | | | | | ±9 |
| | | | | | | | | | | | Hard, PS ₂ laminated pyritic, weakly sph/gr bearing, weakly Cpy bearing, quartzite. 60-70% med grey quartz, 25-30% irregular py bands + patches 6-8% v.f.g. muscov + grey sph/gr within gtz bands. local secondary white gtz blebs + veinlets w 2-3% Cpy. Interval weakly broken - Good recovery. |

| Code | From | To | Recov. | No. | Unit | Description | | | | | | |
|------|------|----|--------|-----|------|-------------|----|----|----|----|----|--|
| 1 | 10 | 14 | 16 | 20 | 22 | 24 | 26 | 28 | 30 | 34 | 36 | |
| | | | | | | | | | | | | Lower contact sharp & // P52 - Marked by the appearance of high grade Sph ± Gn bands. |
| | | | | | | | | | | | | Est Pb+Zn 3-4% P52 shallow but steepens at contact |
| | 2.4 | 6 | 3.6 | 4 | 0.4 | 2.0 | 4 | | | | | (2L0) 80/20% |
| | | | | | | | | | | | | Hard, high-grade, P52 laminated, Sph/Gn bearing, weakly pyritic med grey + maroon quartzite. 50-60% grey qtz bands, 25-30% maroon + silver Sph/Gn irregular bands & patches. Local patches & bands of buckshot ore. Local secondary Gn veins w/ Py ± Cpy. 26.5-27.5; 33.0-33.5 - v. soft strongly weathered, beige w/ green tinge, sericite schist w/ 5% Gn stringers. Well laminated. Entire interval is mod broken, except 2L0 which is mod gouged. P52 steep - local lithons. |
| | | | | | | | | | | | | however contact sharp & // P52. Good recovery except at 27.5-29 - 1ft lost. Est Pb+Zn 12-15% |
| | 3.6 | 4 | 3.9 | 4 | 0.5 | 2.1 | 4 | | | | | (2E4±1) (2E0±4) 45/45/10% |
| | | | | | | | | | | | | TOI-36.9 Massive med-grained interbedded Py w/ 4-5% interstitial maroon Sph ± Gn. |
| | | | | | | | | | | | | Rest of interval is intercalated on a cm scale. Massive reddish copper, high grade Sph ± Gn bearing massive Po + aphanitic dark brassy grey Gn ± Sph bearing |

| Core | From | | To | | Recov. | | No. | | Unit | | Description |
|------|------|----|----|----|--------|----|-----|----|------|--------|--|
| | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 34 | |
| | | | | | | | | | | | massive P _g w 5% white qtz blebs - lower contact sharp & 11 PS of next unit. Core weakly broken - Good recovery. Est P _g Zn - 12-15% |
| | 39 | 4 | 45 | 5 | | | | | 06 | 1029.1 | |
| | | | | | | | | | | | Mod. hard, PS ₂ laminated, mod. silicified, black, strongly carbonaceous, biotitic, mod pyritic schist. 85% black carbonaceous bands which include bio flakes (too dark for %age) 10% white qtz bands, 5% irregular P _g stringers - No apparent base metals. S ₂ plane is dark grey & smudged fingers light grey. Lower contact marked by gorse zone from 45.0 - 46. Recovers good. Core strongly broken throughout interval. (Rock can barely be scratched w knife) PS ₂ steep & constant |
| | 45 | 5 | 52 | 5 | | | | | 07 | 1049.1 | ±1 |
| | | | | | | | | | | | Mod. soft, PS ₂ laminated, light grey sericitized, weakly pyritic, weakly silicified, carbonaceous schist. This is the sericitized equivalent of unit 06. Is slightly softer. 5% dark grey poorly sericitized carbonaceous bands. 3-5% light grey to white qtz laminations & 2-3% P _g stringers. Lower contact gradational over 1m as core gradually gets darker & harder. Core strongly broken 11 PS ₂ . PS ₂ steep |

| Core No. | From | | To | | Recov. | | | No. | | | Unit | Description |
|-------------|------|-----|----|----|--------|----|----|-----|-----|-----|------|---|
| | 1 | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | | |
| | | | | | | | | | | | | ± constant. S2 plane light grey + talcose + white on fingers. |
| | | 5.2 | 5 | | 6.0 | 0 | | | 0.8 | 1.0 | 2.9 | ± 11, ± 4 Beginning of fault zone |
| | | | | | | | | | | | | - Interval is gradual + is a transitional highly broken unit. |
| | | | | | | | | | | | | TOT = 56.5 Dark carbonaceous schist w̄ 5% Py + 3-5% sph ± Gn stringers. Sulphide % age increases toward 56.5 + rock gradually lightens up + becomes more sericitized; 56.5-58 - Rock is sericitized + light grey as previous unit (07). 58-59 - Rock becomes very hard + siliceous + has 10-12% Py + 6-8% sph/bn stringers. 59-EOT - rubbly gtz vein w̄ 15-20% Gn. Entire interval is mod. broken, except vein - Good recovery. |
| | | | | | | | | | | | | Est Pb + Zn 4-5% |
| | | 6.0 | 0 | | 6.7 | 5 | | | 0.9 | 2.1 | 4.3 | (2F4) (2E4) Equal % age Fault zone |
| | | | | | | | | | | | | Hard, v. strongly broken to rubbly massive sulphides. Ranges from brecciated ore w̄ 30-40% macron sph ± Gn + 60-70% euhedral Py to massive copper red sph ± Gn bearing Po mixed w̄ dark grey aphanitic Gn ± sph bearing Py. Lower contact sharp but broken. Good recovery. |
| | | | | | | | | | | | | Est Pb + Zn 8-10% |

| Sec | From | | To | | Recov. | | No. | | Unit | | Description |
|-----|------|----|-----|----|--------|----|-----|----|------|------|---|
| | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 34 | |
| | 67 | 5 | 90 | 0 | | | | | 110 | 1D29 | ± 4 ± 1 End of fault zone |
| | | | | | | | | | | | Mod soft PS ₂ laminated dark to light grey, weakly to strongly sericitized, non to weakly silicified, pyritic, pyrrhotitic sph/Gn bearing, carbonaceous schist. Core changes from two extremes on cm to dm scale. Core ranges from 50-60% black, bititic, carbonaceous laminations, 20-30% white quartzite laminations + 5% Py stringers + 3-4% sph/Gn stringers, to: light grey, strongly sericitized equivalent. TOI-74- slightly higher silicification + 10% irregular Py bands + 5-6% sph/Gn. Core has many microolithons. Lower contact gradational. Marked by disappearance of sericitized intervals - Sz planes light to med grey + talcose light grey + white on stringers. TOI-74- rubble. Rest of core mod to strongly broken w local ≤ 5cm gorse zone. 69-74- 115ft lost. Rest of recovery good. Est Pb+Zn 2-3% |
| | 90 | 0 | 112 | 75 | | | | | 111 | 21A4 | Mod. hard (can just scratch w a knife), black + white, PS ₂ ribbon banded, pyritic, sph/Gn bearing, graphitic quartzite 60-70% black graphitic bands, 30-40% white quartz bands + laminations. 10-12% maroon + silver sph/Gn + 5% Py stringers found in quartz bands. PS ₂ steep + constant from TOI-111 then it is |

DDH F-9.0-0.5
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CURRAGH RESOURCES INC.
Lithologic Log

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Date: 17/01/90 Logged By: PL

| Core Cm | From | | To | | Recov. | | No. | | Unit | | Description | |
|------------|------|----|----|----|--------|----|-----|----|------|--------|-------------|--|
| | 1 | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | | 34 |
| | | | | | | | | | | | | sub-parallel to parallel to CAX to EOI. PS ₂ is wavy in many places & is eroded & has microlithons locally. Lower contact sharp & // CAX - marked by change to light grey. Core mod - strongly broken - Good recovery. Est Pb+Zn 5-6% |
| | | | | | | | | | | | | Note: This unit is almost a 2A4 |
| | 12 | 75 | 15 | 40 | | | | | 12 | 1D1291 | | ± 4 (over 50% of core) |
| | | | | | | | | | | | | This unit is similar to unit 11 but is less siliceous, has less Sph/ln & 50% of core is sericitized & light grey. Locally sericitization is v. strong & rock is v. light grey. Local Qtz veins w/ minor Py & pink andalusite. Est Pb+Zn - ≤ 2%. PS ₂ steep - local lithons. Core weakly broken - Good recovery |

DIAMOND DRILL CORE LOG

Date: Jan 16/1990

Hole Number: DDH 90F-06

Reference Fabric Orientation Diagram:

Project: Faro Fill in Drilling

Location: "S" Phase Faro Pit

Section:
Claim: 125+000

Mine
Ferr. Plane
Co-ords.: 8211.696 N

14607.346 E

Grid
Co-ords: _____

Elevation: 3550.378

All symmetry determinations looking

Total Depth: 188'

_____ with _____ dipping

Inclination: 55° @ 043°

_____ with dip azimuth _____

Purpose: To Better Delineate "S" Phase ore

Reason hole Terminated: Footwall Drifted into 20'

Logged by: Peter Ledwidge

Date(s) Logged: _____

Drilling Contractor: Advanced Drilling

Hole Cemented: No Steel down Hole: No

| Size | CORE From | To | Collar Cased and Capped: _____ |
|------|-----------|------|--------------------------------|
| Bwl | 0 | 5 | |
| BQ | 5 | 188' | |

Assay Lab: Northern Analytical

Certificate No's: _____

Started: _____ Completed: _____

90F-06

DDH F-90-06
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CURRAGH RESOURCES INC.
Structural Log

Date: 1/10/90 Logged By: P. Ledwidge

| Code | From | | | | To | | | | Feature | SYM | S ₀ | | S ₁ | | S ₂ | | Description |
|------|-------|----|----|--------|-------|----|----|----|---------|-----|----------------|----|----------------|-----|----------------|--|---|
| | 10 | 14 | 16 | 20 | 22 | 24 | 26 | 28 | | | 32 | 34 | 38 | 40 | 44 | | |
| | | | | 180 | P1512 | | | | | | | | | 80 | | | PS ₂ - Compositional laminations |
| | | | | 2180 | " | | | | | | | | | 614 | | | " |
| | | | | 470 | " | | | | | | | | | 68 | | | " |
| | | | | 600 | " | | | | | | | | | 65 | | | " |
| | | | | 740 | " | | | | | | | | | 52 | | | " |
| | 740 | | | 976 | " | | | | | | | | | | | | S ₂ -30-local brecciation + wavy PS ₂ |
| | | | | 980 | " | | | | | | | | | 815 | | | PS ₂ comp. lam. |
| | | | | 110130 | " | | | | | | | | | 810 | | | " |
| | 11030 | | | 11370 | " | | | | | | | | | | | | Brecciated & wavy - inconsistent PS ₂ |
| | | | | 11370 | " | | | | | | | | | 25 | | | PS ₂ - comp lam |
| | | | | 11520 | " | | | | | | | | | 615 | | | " |
| | | | | 11600 | " | | | | | | | | | 70 | | | " |
| | | | | 11780 | " | | | | | | | | | 75 | | | " |
| | | | | 11880 | " | | | | | | | | | 78 | | | " |

ASSAY LOG (SAMPLER'S COPY)

| CODE | FROM | | TO | | SAMPLE | | INTR. | | REC (m) | | UNIT | | DESCRIPTION |
|------|------|----|-----|----|--------|--------|-------|----|---------|----|--------|----|-----------------------|
| | 10 | 14 | 16 | 20 | 22 | 26 | 28 | 30 | 32 | 34 | 36 | 40 | |
| | 118 | 0 | 123 | 2 | 495 | 910 | | | | | 21A41 | | High grade |
| | 123 | 2 | 128 | 4 | | 911 | | | | | " | | " |
| | 128 | 4 | 133 | 6 | | 912 | | | | | " | | " |
| | 133 | 6 | 138 | 8 | | 913 | | | | | " | | " |
| | 138 | 8 | 141 | 9 | | 914 | | | | | 21H41 | | (2D4)(2E0) 45/40/15 % |
| | 141 | 9 | 145 | 0 | | 915 | | | | | " | | " |
| | 145 | 0 | 151 | 0 | | 916 | | | | | 1D1291 | | |
| | 156 | 5 | 160 | 0 | | 917 | | | | | 21A241 | | ± BXA |
| | 160 | 0 | 163 | 5 | | 918 | | | | | " | | " |
| | 163 | 5 | 168 | 0 | | 919 | | | | | 21H41 | | High grade |
| | 168 | 0 | 172 | 5 | 49 | 161010 | | | | | " | | " |
| | 172 | 5 | 177 | 6 | | 011 | | | | | 21D41 | | ± BXA |
| | 177 | 6 | 182 | 6 | | 012 | | | | | " | | " |
| | 182 | 6 | 187 | 6 | | 013 | | | | | " | | " |
| | 187 | 6 | 192 | 6 | | 014 | | | | | " | | " |
| | 192 | 6 | 197 | 8 | | 015 | | | | | " | | " |
| | 197 | 8 | 110 | 2 | | 016 | | | | | 21A241 | | (1D291 ± BXA) 50/50 % |
| | 110 | 2 | 110 | 6 | | 017 | | | | | " | | " |
| | 110 | 6 | 111 | 5 | | 018 | | | | | " | | " |
| | 111 | 5 | 111 | 8 | | 019 | | | | | 21D41 | | |
| | 111 | 8 | 112 | 2 | | 110 | | | | | 21H101 | | (2E4 ± BXA) 50/50 % |
| | 112 | 2 | 112 | 6 | | 111 | | | | | " | | " |
| | 112 | 6 | 112 | 9 | | 112 | | | | | " | | " |
| | 112 | 9 | 113 | 4 | | 113 | | | | | 21A101 | | ± BXA |
| | 113 | 4 | 113 | 9 | | 114 | | | | | " | | " |

Next page

DDH F-9.0-0.6
2 8CURRAGH RESOURCES INC.
Lithologic LogPage 3Date: 18/01/90 Logged By: P. Edwidge

| Core No. | From | | | | To | | | | Recov. | No. | Unit | Description |
|-------------|------|-----|----|-----|----|----|----|----|--------|-----|------|---|
| | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | | | | |
| | | 0 | | 60 | | | | | | 01 | | Casing - No return |
| | | 60 | | 180 | | | | | | 02 | 1S48 | Soft PS2 laminated, moderately to extremely sericitized chloritized, bio, musc, qtz/feld schist. Rocks ranges from light gray/green w 20% \leq 2cm chlorite blebs stretched 3:1 to extremely sericitized & completely light beige. S2 plane is v. light green to white & is talcose & powder white to beige on fingers. Core is very strongly broken w local gouge zones. 17.5 - 50% is gouge & makes sharp contact w next unit. Good recovery. |
| | | 180 | | 388 | | | | | | 03 | 2A4 | High grade Hard, PS2 ribbon banded, graphitic, sph/Gn bearing, pyritic, high grade quartzite. PS2 defined by 20-25% black graphitic bands, 40-50% light gray to white qtz bands & 20-25% maroon sph \pm Gn bands 3-5% Gn found in secondary qtz blebs & veinlets. 10-15% ovoidal Pg overprinted on qtz bands & sph \pm Gn bands. Local beige Fe carb veinlets. Core is weakly broken. Good recovery. Local lithon. Lower contact sharp. Est Pb+Zn - 12-15% |

DDH F-9.0-0.6
2 8CURRAGH RESOURCES INC.
Lithologic LogPage 4Date: 18/01/90 Logged By: P.L.

| Core | From | | To | | Recov. | No. | Unit | Description | | |
|------|------|----|----|----|--------|-----|-------|--|----|----|
| | 10 | 14 | 18 | 20 | | | | | 22 | 24 |
| | 38 | 8 | 45 | 0 | | 104 | 2114 | (2D4) (2E0) 45/40/15 % | | |
| | | | | | | | | 1st sub-unit. Hard non foliated, copper red, sph ± Gn bearing massive pyrrhotitic sulphides. | | |
| | | | | | | | | 2nd sub-unit - (42.1 - 44.2) Hard, brecciated, sph/Gn bearing pyritic quartzite. Rounded to angular silicified sericitized fragments, interstitial grey/blue gltz. 10% sph/Gn blebs. Contacts w main unit gradual over 5cm. | | |
| | | | | | | | | 3rd sub-unit - (39.6 - 40.6) Massive, f. to mod. g. Py. No apparent base metals. Sharp contacts w main unit. Entire interval is weakly to mod. broken. Good recovery. Est Pb + Zn 6-8% | | |
| | 45 | 0 | 51 | 0 | | 105 | 11291 | | | |
| | | | | | | | | Mod hard, P _{S2} laminated, black carbonaceous, weakly silicified. weakly pyritic, weakly sph/Gn bearing schist. 85-90 black carbonaceous bands, 10-15% white Py / sph/Gn bearing gltz bands define P _{S2} . Overall has 5-5% Py + 4-5% sph/Gn. P _{S2} plane is black & stains fingers dark grey. Lower contact gradual over 50cm as rock lightens up as it becomes sericitized. Upper contact sericitized over 10cm. Core mod. broken // P _{S2} . | | |

| Code | From | To | Recov. | No. | Unit | Description | | | | | |
|------|------|-------|--------|------|---------|-------------|----|----|----|----|---|
| 1 | 10 | 14 | 20 | 22 | 24 | 26 | 28 | 30 | 34 | 36 | |
| | | | | | | | | | | | Good recovery. Est Pb+Zn $\leq 2\%$ |
| | 5110 | 5165 | | 1015 | 1101491 | | | | | | |
| | | | | | | | | | | | Soft light grey, med to strongly sericitized schist. Is sericitized equivalent of unit 4. 10-15% med grey carbonaceous bands, 15-20% light grey to white qtz bands w/trace Pz, sph/Gn |
| | | | | | | | | | | | Rest is light grey + sericitized. Lower contact gradational over 30cm as core gets strongly silicified. Gouge zone at 55-55.5 + 52-52.5. Rest of interval is med to strongly broken // Pz. Pz plane is v. light grey + loose talcose white/brise powder on fingers. Good recovery |
| | 5165 | 51635 | | 1016 | 21A1214 | | | | | | \pm BXA |
| | | | | | | | | | | | Hard, Pz ribbon banded, graphitic, sph/Gn bearing, pyritic, locally brecciated quartzite. Pz defined by 20-25% dark grey to black graphitic bands, 50-60% grey/blue qtz bands + 10-8% maroon sph/Gn stringers. 10% of py in irregular secondary qtz veinlets + blebs. 2-3% brise Fe-carb veinlets. 50% of core is brecciated. These areas have strongly silicified + sericitized bands + ≤ 5 cm sph + Gn blebs. Lower contact sharp but broken. Core med broken. Good recovery. This unit appears to be a silicified equivalent of |

DDH F-9.0-0.6
2 8CURRAGH RESOURCES INC.
Lithologic LogPage 6Date: 18/01/90 Logged By: PL

| Code | From | | To | | Recov. | | | No. | | | Unit | | Description |
|------|------|-----|----|----|--------|----|----|-----|------|------|------|--|---|
| | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 34 | 38 | | |
| | | | | | | | | | | | | | unit 5+6. Est Pb+Zn 4-5% |
| | | | | | | | | | | | | | |
| | | 6.3 | 5 | | 7.2 | 5 | | | 10.7 | 2.14 | 4 | | High grade |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | Hard non-foliated pyrrhotitic, sph/Gn bearing, massive sulphides. Core is copper red sph±Gn bearing massive Po, w 2-3% ≤ 1mm black (Mt?) spots + 2-3% ≤ 1mm white gtz blebs. local gtz veins w sph & Gn blebs. Core weakly broken - Good recovery. Est Pb+Zn 10-12% |
| | | | | | | | | | | | | | |
| | | 7.2 | 5 | | 9.7 | 8 | | | 10.8 | 2.12 | 4 | | ± BXA |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | Hard P _{S2} laminated, sph/Gn bearing, porphyritic quartzite. 50-60% grey/blue to white gtz. 20-25% maroon + silver sph/Gn stringers, 10-15% v.f.g. l ₂ in stringers & irregular bands & blebs. Core is v. strongly broken. P _{S2} is shallow to steep & core is mod. brecciated locally. Lower contact gradational. Marked by decrease of gtz & appearance of carbonaceous bands. Good recovery. Est Pb+Zn 10-12% - This unit is v. strongly silicified |
| | | | | | | | | | | | | | |
| | | 9.7 | 8 | | 1.1 | 5 | 5 | | 0.9 | 2.14 | 2.4 | | (10291 ± BXA) 50/50% 50/50% |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | Mod hard to very hard, weakly to strongly silicified, locally brecciated, black to light grey, carbonaceous, |

| Core | From | | To | | Recov. | | No. | | Unit | | Description |
|------|------|----|-----|----|--------|----|-----|-----|------|----|--|
| | 10 | 14 | 16 | 20 | 22 | 24 | 26 | 28 | 30 | 34 | |
| | | | | | | | | | | | Pyritic, sph/bn bearing schist to quartzite. Unit are the same as units 4 + 6 respectively. Seem to have a repeat of sequence although a unit similar to unit 5 is not encountered. local very silicified zone same as unit 6 at 104-105.5. Unit grades from dark, weakly py + sph/bn into more silicified + sulphidized downhole. 107-112.5 - strongly brecciated. 108-111.5 - mismatch - core missing - Fault zone. Lower contact gradual as rock becomes very silicified gradually. Core strongly broken. Good recovery except for fault zone. Est Pb+Zn 3-4% |
| | 115 | 5 | 118 | 7 | | | 10 | 204 | | | Same as unit 08. Rock is folded - P52 changes from steep to // CAZ - weakly broken - good recovery. Est Pb+Zn 10-12% however contact sharp. |
| | 118 | 7 | 129 | 8 | | | 11 | 210 | | | (2E4 ± BXA) 50/50% |
| | | | | | | | | | | | Core is intercalated on cm to dm scale. Ranges from weakly foliated massive copper-red sph/bn bearing py w 5% py blebs stretched 2:1 // P52, to f.g. pyhedral py w 5-6% interstitial sph/bn to spheritic brecciated grey/brown/brassy Gn ± sph bearing massive py w ≤ 2cm py |

DDH E-9.0-0.6
2 8CURRAGH RESOURCES INC.
Lithologic Log

Page 8

Date: 18/01/90 Logged By: PL

| Core Code | From | | To | | Recov. | | No. | | Unit | | Description |
|--------------|------|----|-----|----|--------|----|-----|----|-------|----|--|
| | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 34 | |
| | | | | | | | | | | | fragments + Pb blebs. Interval is weakly broken. Good recovery. Lower contact is sharp + marked by Qtz vein. Est Pb+Zn 8-10% local Sp, blebs + tr Asp euhedral $\leq 0.5\text{cm}$ xal. (needles) |
| | 129 | 8 | 139 | 4 | | | | 12 | 21A10 | | \pm BXA |
| | | | | | | | | | | | Hard, weakly pyritic, v. weakly sph/Gn bearing, locally brecciated, graphitic quartzite. 70-75% black graphitic bands, 20-30% grey Qtz bands, 5-8% Py stringers + local blebs, 4-5% sph/Gn in Qtz bands. TUI-131.3 Qtz flooded - angular graphitic fragments. 131.3-134 - med. to strongly brecciated. 139.0-139.4 Qtz vein w tr Pb, Gn. Marks sharp lower contact. 5% Qtz veins w minor Py, Gn, Sph throughout rest of unit. Core med broken. Good recovery. Est Pb+Zn 2-3% |
| | 139 | 4 | 148 | 4 | | | | 13 | 2154 | | $\pm 1 \pm 7$ |
| | | | | | | | | | | | Hard pyritic sph/Gn bearing, locally siliceous locally pyrohotitic massive sulphides. Core ranges from f. to med. grained euhedral Py w 8-10% interstitial sph/Gn to aphanitic dark brown/grey/brownish sph/Gn bearing massive Py w 10-15% Qtz blebs. local 5cm Sph \pm Gn bearing bands. Lower contact gradational as rock becomes more siliceous. Core med. |

| Core No | From | | To | | Recov. | | No. | | Unit | | Description |
|------------|------|----|------|----|--------|----|-----|-----|------|----|--|
| | 10 | 14 | 16 | 20 | 22 | 24 | 26 | 28 | 30 | 34 | |
| | | | | | | | | | | | broken - Good recovery. Est Pb+Zn 10-12% - Tr. Cpg. blebs. |
| | 1148 | 4 | 1161 | 7 | | | | 114 | 2A4 | | |
| | | | | | | | | | | | Hard PS2 ribbon banded, sph/Gn bearing, v. weakly pyritic, ribbon banded, graphitic quartzite. 60-70% black graphitic bands, 30-40% white sph±Gn bearing quartz bands (8-10% overall sph/Gn) 2-3% diss v.f.g. Py carb. TOI - 1S2. V. strongly silicified 12-15% sph/Gn + 10-15% Py blebs. Tr. Cpg. Lower contact gradual over 20cm as core lightens & becomes sericitized. Core mod. broken // PS2 - PS2 steep + constant. Sz planes black to shiny silvers. Good recovery. Est Pb+Zn 4-5% |
| | 1167 | 5 | 1188 | 0 | | | | 115 | 1D2 | 14 | |
| | | | | | | | | | | | Soft, mottled light + dark gray moderately sericitized, carbonaceous schist. PS2 well defined by black carbonaceous laminations + sericitized light grey laminations. Locally have black v. weakly sericitized bands. Sz planes are light to med grey + talcose light beige to white on fingers. Core mod. broken // PS2 - PS2 steep + constant. Good recovery. |
| | | | | | | | | | | | 188 EON |

DIAMOND DRILL CORE LOG

Date: Jan. 17/1990

Hole Number: 90F-07

Reference Fabric Orientation Diagram:

Project: Faro Fill in Drilling

Location: "S" Phase Faro Pit

Section: _____

Station: 125 + 000

Mine
Ferr. Plane
Co-ords.: 8336.256 N

14 872.224 E

Grid
Co-ords: _____

Elevation: 3550.763

All symmetry determinations looking

Total Depth: 179'

_____ with _____ dipping

Inclination: 90°

_____ with dip azimuth _____.

Purpose: To better delineate "S" phase ore

Reason hole
Terminated: Footwall rocks were drilled

Logged by: Peter Ledwidge Date(s) Logged: _____

Drilling
Contractor: Advanced Drilling

Hole
Cemented: No Steel down Hole: No Size BWL CORE From 0 To 5 Collar Cased and Capped: _____

Assay Lab: Northern Analytical BQ 5 179'

Certificate No's: _____ Started: _____ Completed: _____

F-90-07

ASSAY LOG (SAMPLER'S COPY)

| CODE | FROM | | TO | | SAMPLE | | INTR. | | REC (m) | | UNIT | | DESCRIPTION |
|------|------|--------|----|--------|--------|----|-------|----|---------|----|-------|----|------------------------------|
| | 10 | 14 | 16 | 20 | 22 | 26 | 28 | 30 | 32 | 34 | 36 | 40 | |
| | | 150 | | 1120 | 4916 | 21 | | | | | 2E41 | | ±7 |
| | | 1120 | | 1165 | | 22 | | | | | " | | " |
| | | 1165 | | 2109 | | 23 | | | | | 2H443 | | (2D0) (2J0) 82/5/3% |
| | | 2109 | | 253 | | 24 | | | | | " | | " |
| | | 253 | | 297 | | 25 | | | | | " | | " |
| | | 297 | | 341 | | 26 | | | | | " | | " |
| | | 341 | | 384 | | 27 | | | | | " | | " |
| | | 384 | | 427 | | 28 | | | | | 2E01 | | ±1 minor (2F4) 70/30% |
| | | 427 | | 470 | | 29 | | | | | " | | " |
| | | 470 | | 513 | | 30 | | | | | " | | " |
| | | 513 | | 550 | | 31 | | | | | 2H443 | | |
| | | 550 | | 6105 | | 32 | | | | | 2F101 | | ±1 |
| | | 6105 | | 660 | | 33 | | | | | | | |
| | | 660 | | 710 | | 34 | | | | | 2E101 | | ±4 ±7 |
| | | 710 | | 760 | | 35 | | | | | | | |
| | | 760 | | 810 | | 36 | | | | | 2E451 | | |
| | | 810 | | 840 | | 37 | | | | | " | | |
| | | 840 | | 880 | | 38 | | | | | " | | |
| | | 880 | | 922 | | 39 | | | | | 2F101 | | (2E4) 85/15% |
| | | 922 | | 964 | | 40 | | | | | " | | " |
| | | 964 | | 110106 | | 41 | | | | | " | | " |
| | | 110106 | | 110130 | | 42 | | | | | 2H34 | | |
| | | 110130 | | 110171 | | 43 | | | | | 2EF | | ±1 |
| | | 110171 | | 11113 | | 44 | | | | | " | | |
| | | 11113 | | 11160 | | 45 | | | | | 2EF | | ±1 (2A4±BxA) (2H4) 60/40/10% |
| | | 11160 | | 112108 | 4916 | 46 | | | | | " | | " |

Next page

DDH $\frac{F-9.0-.0.7}{2 \quad \quad \quad 8}$

CURRAGH RESOURCES INC.

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Logged by P. Ledwidge

ASSAY LOG (SAMPLER'S COPY)

Date 22/11/90

Sampled by P. Ledwidge

| CODE | FROM | | | | TO | | | | SAMPLE | | | | INTR. | | REC (m) | | UNIT | | DESCRIPTION |
|------|------|----|----|------|----|-----|----|----|--------|----|------|----|-------|--|---------|--|------|------------|-------------|
| 1 | 10 | 14 | 16 | 20 | 22 | 26 | 28 | 30 | 32 | 34 | 36 | 40 | 42 | | | | | | |
| | 1120 | 8 | | 1124 | 9 | 496 | 47 | | | | 2A41 | | | | | | | ± Bx A | |
| | 1124 | 9 | | 1129 | 0 | | 48 | | | | " | | | | | | | " | |
| | 1129 | 0 | | 1133 | 0 | | 49 | | | | " | | | | | | | " | |
| | | | | | | | | | | | 2A01 | | | | | | | ± 4 ± Bx A | |
| | 1133 | 0 | | 1137 | 9 | | 50 | | | | " | | | | | | | " | |
| | 1137 | 9 | | 1142 | 8 | | 51 | | | | " | | | | | | | " | |
| | 1142 | 8 | | 1147 | 7 | | 52 | | | | " | | | | | | | " | |
| | 1147 | 7 | | 1152 | 6 | | 53 | | | | " | | | | | | | " | |
| | 1152 | 6 | | 1157 | 6 | 496 | 54 | | | | " | | | | | | | " | |
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DDH F-90-07
2 8

CURRAGH RESOURCES INC. Structural Log

Page 1 of 1

Date: 22/01/90 Logged By: P. Ledwidge

| Code | From | | | To | | | Feature | SYN | S ₀ | | S ₁ | | S ₂ | | Description |
|------|------|----|--------|----|----|----|---------|-------|----------------|----|----------------|----|----------------|----|---|
| | 10 | 14 | 16 | 20 | 22 | 24 | | | 26 | 28 | 32 | 34 | 38 | 40 | |
| | | | 150 | | | | 1760 | P1S12 | | | | | | | Massive - no PS ₂ observed. |
| | | | | | | | 1770 | " | | | | | 60 | | PS ₂ - compositional laminations |
| | | | | | | | 1875 | " | | | | | 62 | | " |
| | | | | | | | 1120 | " | | | | | 58 | | " |
| | | | | | | | 11260 | " | | | | | 62 | | " |
| | | | | | | | 11430 | " | | | | | 78 | | " |
| | | | | | | | 11520 | " | | | | | 80 | | " |
| | | | | | | | 11530 | " | | | | | 0 | | " |
| | | | | | | | 11540 | " | | | | | 77 | | " |
| | | | 115176 | | | | 11790 | " | | | | | | | 0-80 - folded & crumpled |
| | | | | | | | | | | | | | | | |
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| Cofs | From | | | To | | | Recov. | No. | Unit | Description | |
|------|------|----|----|----|----|----|--------|-----|--------|-------------|---|
| | 10 | 14 | 18 | 20 | 22 | 24 | | | | | 26 |
| | | 10 | | | 5 | | | 01 | | | Casing - No return |
| | | 5 | | | 8 | | | 02 | 2E4 | | Crushed Rock - 2ft lost |
| | | 8 | | 16 | 5 | | | 03 | 2E4 | ±7 | |
| | | | | | | | | | | | Hard, dark grey + brassy aphanitic sph/bn bearing pyritic massive sulphides. 80-85% dark brassy grey aphanitic sph/bn /lg bearing matrix w 10-15% fig. subhedral ≤ 1cm lg blebs - 3-5% light beige qtz or silicified Fe carb, ≤ 2mm phenocrysts. local Po blebs. NO foliation. |
| | | | | | | | | | | | 8-11.5 - 1.5ft lost - rubble; 11.5-14.5 - v. strongly broken - good recovery; 14.5-15.0 - strongly broken. Good recovery, however contact gradational as Po becomes more prominent. Est Pb + Zn - difficult to assess, but probably 8-10% |
| | | 16 | 5 | 38 | 4 | | | 04 | 2H1448 | | (200) (250) 82 / 5 / 3 % |
| | | | | | | | | | | | Hard, very high grade, pyroclastic, sph/bn bearing, weakly pyritic massive sulphides. 90-95% purple/brassy very sph/bn rich massive Po w 5-8% ≤ 1cm lg blebs. 234.6-235.3 - Massive, purple sph/bn w 1 cm lg bleb. 235.3-236.7 - Banded pyritic w/ly sph/bn bearing quartzite. Core is weakly |

| Code | From | To | Recov. | No. | Unit | Description | | | | | |
|------|------|------|--------|-----|------|-------------|-------|-------|----|----|--|
| 1 | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 34 | 36 |
| | | | | | | | | | | | broken - Good recovery, lower contact sharp but irregular. Est Pb+Zn 20-25 % |
| | 3.84 | 5.13 | | | | | 10.52 | 15.00 | | | ± minor (2F4) 70/30 % |
| | | | | | | | | | | | Dominant - Hard pyritic massive sulphides - 95-98 % f. to med. grained euhedral Py w 2-3% ≤ 1cm gtz blebs. Rock is very brittle. 4-5% probable sph/brn (visible locally) |
| | | | | | | | | | | | Lesser. (39.5 - 41.5, 49-50, + small lenses) 50-60 % f. to med. gr. euhedral Py w 40-50% interstitial macroon sph/brn very brittle. |
| | | | | | | | | | | | Entire interval is v. brittle + locally powdery. 39.5 - 41.5 - 1st lost; Rest of recovery good; lower contact sharp but irregular. Est Pb+Zn 3-4% |
| | 5.13 | 5.50 | | | | | 10.62 | 14.43 | | | |
| | | | | | | | | | | | Hard pyrothitic, sph/brn bearing v. high grade, weakly pyritic massive sulphides. 80-85% copper-red, sph/brn bearing Pb, 3-5% diss. Py blebs. Core has silver Gn specks all over it. 5-10% white ≤ 1mm gtz blebs. Core weakly broken. Good recovery. Lower contact sharp but irregular. |

| Case | From | | To | | Recov. | | No. | | Unit | | Description |
|------|------|-----|----|-----|--------|----|-----|-----|------|-------|---|
| | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 34 | |
| | | | | | | | | | | | Est Pb+Zn 18-20% |
| | | | | | | | | | | | |
| | | 550 | | 616 | 0 | | | 107 | | 2.F10 | ±1 |
| | | | | | | | | | | | Hard, brittle high to very high grade, pyritic, sph/ln bearing buckshot ore. 70-80% f to med. g. euhedral Py. 20-25% massive interstitial sph/ln, 3-5% ≤ 1cm qtz. blobs. Entire interval is v. strongly broken to powdery & brittle 56-56.5 - Drilling problems - no water return - possible small fault. Recovery good. Locally have v. high grade zones & locally have ≤ 5% sph/ln. Est Pb+Zn 12-15% lower contact sharp. |
| | | | | | | | | | | | |
| | | 660 | | 716 | 0 | | | 0.8 | | 2.E0 | ±4 ± 7 |
| | | | | | | | | | | | Hard pyritic w/ly tomad. sph/ln bearing, locally pyrohotitic massive sulphides. Rock is f. to med to aphanitic Py w local Po rich areas. Where aphanitic is dark brassy/grey/brown. May have considerable sph/ln but is difficult to tell. Est Pb+Zn 3-4%? Where m. grained no sph/ln observed. Entire interval is v. strongly broken. 71.5-60I powder & rubble. Lower contact sharp but irregular. |
| | | | | | | | | | | | |

| Code | From | | | To | | | Recov. | | | No. | | | Unit | Description |
|------|------|----|----|-----|----|----|--------|----|-----|-----|----|----|------|---|
| | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | | |
| | 76 | 0 | | 88 | 0 | | | | 109 | | | | 2E45 | |
| | | | | | | | | | | | | | | Hard, pyritic, sph/ln bearing, carbonaceous, med. blue/grey, w/ly P&S laminated quartzite. 60-70% blue/grey qtz w/ w/ly defined med grey carbonaceous bands, 15-20% irregular Py patches + bands, 10-12% v.f. g. massive + siliceous sph/ln stringers + specks. 1-2% light beige thread like sericite stringers // P&S. 85.5-EOI - less sph/ln + higher Py content. Lower contact sharp but irregular. Core weakly broken // P&S. Good recovery. Est Pb + Zn 5-6% |
| | 88 | 0 | | 100 | 6 | | | | 110 | | | | 2F01 | (2E4) 85/15% |
| | | | | | | | | | | | | | | Dominant - Hard, non foliated, high to med. grade pyritic, sph/ln bearing, brackish facies massive sulphides. 80-85% fctv med. g! embedded Py w/ 15-20% interstitial massive sph/ln. Local higher + lower sph/ln % ages. |
| | | | | | | | | | | | | | | Lesser (TOI - 89.8) Hard, pyritic massive pyritic, Gn ± sph bearing massive sulphides. Rock is entirely dark brassy grey. Gn ± sph bearing, ephanitic Py. Can see specks of Gn shining. Non-foliated. Est Pb + Zn 10-12% |

| Code | From | To | Recov. | No. | Unit | Description | | | | | | |
|------|------|----|--------|-----|------|-------------|----|----|----|----|----|---|
| 1 | 10 | 14 | 16 | 20 | 22 | 24 | 26 | 28 | 30 | 34 | 36 | |
| | | | | | | | | | | | | TUI- 95.5 - Mod to strongly broken ; 95.5 - EUI - v. strongly broken + rubble + powder. Lower contact sharp but broken. Est Pb+Zn, 8-10% |
| | 100 | 6 | 103 | 0 | | | 11 | 2 | 11 | 3 | 4 | |
| | | | | | | | | | | | | Hard pyroclastic, aphanitic, pyritic, sph/ln bearing, massive sulphides. Core is aphanitic lg w reddish sph patches + grey Gn speckles - local etched, euhedral Py blebs + bands + minor interstitial sph/ln. Core strongly oxidized. v. strongly broken - good recovery. Lower contact sharp but broken. Est Pb+Zn - difficult to assess - 8-10% ? |
| | 103 | 0 | 111 | 3 | | | 12 | 2 | EF | | | ± 1 |
| | | | | | | | | | | | | Hard, pyritic, sph/ln bearing, locally siliceous, massive sulphides. 85-90 v.f. to m. grained lg w 10-12% interstitial aphanitic massive sph/ln. Locally have v. little + locally have up to 30% sph/ln. Local gtz rich bands as well as local gtz - blebs. Core is mod broken - Good recovery. 103.1 - 104 - Gused, powdery dark grey powder. Lower contact sharp but irregular. Est Pb+Zn - 5-6% |

| Code | From | To | Recov. | No. | Unit | Description | |
|------|-------|----|--------|-----|-------|-------------|---|
| 1 | 10 | 14 | 16 | 20 | 22 24 | 26 28 30 | 34 36 |
| | 11.10 | 3 | 1.20 | 8 | 13 | 2EF | ±1 (2A4-B7A) (2H7) 60/40/10% |
| | | | | | | | Dominant - Same as unit 12 |
| | | | | | | | 2nd sub-unit - Same as unit 14 - Locally is brecciated + mixed in main unit. Intercalated in dominant unit on contdm scale. |
| | | | | | | | 3rd sub-unit. (119.3-120.5) Hard non-foliated, pyritic reddish sph/gr bearing massive sulphides. |
| | | | | | | | This unit appear to be a transition from unit 12 to 14. Core mod to strongly broken. Good recovery. Est Pb+Zn 6-7% lower contact sharp # 11 PS2 |
| | 1.20 | 8 | 1.30 | 0 | 14 | 2A4 | ± BXA |
| | | | | | | | Hard, PS2 ribbon-banded, pyritic, sph/gr bearing, graphitic quartzite. 40-50% black graphitic bands, 25-30% white qtz bands, 8-10% maroon & silver sph/gr stringers. 15-20% irregular Py bands & patches. Rock is wily brecciated locally but is v-strongly brecciated at 128.5-130.5. Lower contact gradational over 3ft as sulphide content drops. Core mod broken. Good recovery. Est Pb+Zn - 4-5% |

| Sec | From | | To | | Recov. | No. | Unit | Description | | |
|-----|------|----|------|----|--------|-----|-------|--|----|----|
| | 10 | 14 | 18 | 20 | | | | | 22 | 24 |
| | 1330 | | 1576 | | | 15 | 2A101 | ±4 ± BXA | | |
| | | | | | | | | Mod. hard, PS ₂ laminated, graphitic, pyritic, weakly sph/Gr bearing locally brecciated, quartzite. 70-80% black graphitic bands, 20-25% white qtz bands. 8-10% irregular Py bands + patches - 5-6% maroon sph ± Gr within qtz bands locally core is mod. to strongly brecciated. Lower contact gradational over 2ft as core gets lighter coloured + softer. Core v. strongly broken throughout interval. Good recovery. Est. Pb ± Zn = 2-3% | | |
| | 1576 | | 1790 | | | 16 | 1D491 | | | |
| | | | | | | | | Soft, PS ₂ laminated, v. strongly sericitized carbonaceous, pyritic, light grey to light beige schist. Rock is 80-90% light grey to beige sericite, 10% dark grey carbonaceous laminations + 5% Py stringers + blebs. 3-5% Gr blebs in qtz veins + locally can see ≤ 0.5cm euhedral Asp loranges in secondary white qtz blebs + veinlets w Py. Sz plane white to light grey + talcose powdery white on fingers. PS ₂ steep to shallow + locally crumpled + wavy. Local lithons. Core mod broken - Good recovery. | | |
| | | | | | | | | 179 - EOH | | |

DIAMOND DRILL CORE LOG

Date: Jan 18/1990

Hole Number: 90F-08

Reference Fabric Orientation Diagram:

Project: Faro Fill in Drilling

Location: "S" Phase Faro Pit

Section:
Claim: \$ 194000

Mine
Ferr. Plane
Co-ords.: 8239.407 N

14765.991 E

Grid
Co-ords: _____

Elevation: 3551.496

All symmetry determinations looking

Total Depth: 143'

_____ with _____ dipping

Inclination: 60° Az 315°

_____ with dip azimuth _____.

Purpose: To better Delineate South Phase One

Reason hole Terminated: Footwall Drilled

Logged by: Peter Ledwidge

Date(s) Logged: _____

Drilling Contractor: Advanced Drilling

Hole Cemented: No Steel down Hole: No

| Size | CORE From | To | Collar Cased and Capped: _____ |
|------------|-----------|------------|--------------------------------|
| <u>BWL</u> | <u>0</u> | <u>5</u> | |
| <u>RQ</u> | <u>5</u> | <u>143</u> | |

Assay Lab: Northern Analytical

Certificate No's: _____

Started: _____ Completed: _____

F-90-08

ASSAY LOG (SAMPLER'S COPY)

| CODE | FROM | | TO | | SAMPLE | | INTR. | | REC (m) | | UNIT | | DESCRIPTION |
|------|------|------|----|------|--------|----|-------|----|---------|----|--------|----|---|
| | 10 | 14 | 16 | 20 | 22 | 26 | 28 | 30 | 32 | 34 | 36 | 40 | |
| | | 60 | | 92 | 49 | 65 | | | | | 2E14 | | BXA ± 9 (2L0) (1F0) 60/25/15% |
| | | 92 | | 112 | | 56 | | | | | " | | " |
| | | 112 | | 116 | | 57 | | | | | 2E14.8 | | ± 7 ± 6 ± 1 |
| | | 116 | | 210 | | 58 | | | | | " | | " + (10Q ± 6n, Sph, P _g ± C _g) |
| | | 510 | | 573 | | 59 | | | | | 2A14 | | |
| | | 573 | | 613 | | 60 | | | | | 1101Q | | + Sph (massive) ± 6n, P _g minor |
| | | 613 | | 642 | | 61 | | | | | 2A14 | | qtz flooded |
| | | 642 | | 681 | | 62 | | | | | 2H14.3 | | ± 1 |
| | | 681 | | 721 | | 63 | | | | | " | | " |
| | | 721 | | 751 | | 64 | | | | | 2E14 | | |
| | | 751 | | 780 | | 65 | | | | | " | | |
| | | 780 | | 829 | | 66 | | | | | 2A14 | | BXA |
| | | 829 | | 878 | | 67 | | | | | | | |
| | | 878 | | 927 | | 68 | | | | | | | |
| | | 927 | | 979 | | 69 | | | | | 2E14 | | ± BXA ± 7 minor |
| | | 979 | | 1031 | | 70 | | | | | " | | " |
| | | 1031 | | 1083 | | 71 | | | | | " | | " |
| | | 1083 | | 1113 | | 72 | | | | | " | | " |
| | | 1113 | | 1118 | | 73 | | | | | " | | " |
| | | 1118 | | 1121 | | 74 | | | | | 2A10 | | ± 4, ± BXA |
| | | 1133 | | 1138 | | 75 | | | | | 1101Q | | + P _g ± 6n (1C249) 65/25% |
| | | 1138 | | 1143 | | 76 | | | | | " | | " |

DDH F-90-08
2 8

CURRAGH RESOURCES INC.
 Structural Log

Date: 23/01/90 Logged By: P. Ledwidge

| Code | From | | To | | Feature | S/E | S ₀ | | S ₁ | | S ₂ | | Description | | |
|------|------|----|----|----|---------|-------|----------------|----|----------------|----|----------------|----|-------------|----|---------------------------------|
| | 1 | 10 | 14 | 16 | | | 20 | 22 | 24 | 26 | 28 | 32 | | 34 | 38 |
| | | | | | 122 | P1S12 | | | | | | | 519 | | P52 - compositional laminations |
| | | | | | 1314 | " | | | | | | | 610 | | " |
| | | | | | 1510 | " | | | | | | | 812 | | " |
| | | | | | 1516 | " | | | | | | | 810 | | " |
| | | | | | 191 | " | | | | | | | 610 | | " |
| | | | | | 11210 | " | | | | | | | 414 | | " |
| | 1121 | | 4 | | 11413 | " | | | | | | | | | 65-0 - frequently folded |
| | | | | | | | | | | | | | | | |
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| Core | From | To | Recov. | No. | Unit | Description | | | | | |
|------|------|-----|--------|-----|------|-------------|---------------------------|----|----|----|---|
| 1 | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 34 | 36 |
| | 0 | 60 | | 01 | | | | | | | Casing - No return |
| | 60 | 123 | | 02 | 2E4 | BXA±9 (2L0) | (1F0) | | | | 60/25/15 % |
| | | | | | | | | | | | Dominant: Hard brecciated pyritic, sph/Gn bearing massive sulphides. 70-80% euhedral m.g. Py w 15-20% interstitial grey/maroon sph/Gn, tr. cpy blebs - Rock is brecciated & carries angular Py fragments. |
| | | | | | | | | | | | 2 nd sub-unit - (10.8-10.1) white muddy gouge - can see Py cubes locally. Impossible to identify protolith. |
| | | | | | | | | | | | 3 rd sub-unit - (7.5-8.5) - pistachio green & beige gouged muddy metabasite. May be sericitized. |
| | | | | | | | | | | | Entire interval is strongly broken to gouged - good recovery. Lower contact sharp - marked at end of gouged 2L0. |
| | 123 | 210 | | 03 | 2E4B | ±7±6±1 | (1UQ + Gn, Sph, Py ± cpy) | | | | 85/15 % |
| | | | | | | | | | | | Hard, pyritic, sph/Gn bearing, pyrrhotitic, Mt bearing, weakly baritic/siliceous massive sulphides. Core is grey/purple/blue. Consists of 50-60% groundmass of v.f.g. Py/Sph/Gn/Mt w minor Bar & Qtz & 40-50% euhedral Py blebs & irregular bands. Core is med. broken. |

| Cofc | From | | To | | Recov. | | No. | | Unit | | Description |
|------|------|----|-----|----|--------|----|-----|----|------|----|---|
| | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 34 | |
| | | | | | | | | | | | good recovery. 19.5- EOI - Qtz vein w 10% Pg, 5% Sph, 5% Gn to-cg. Marks sharp lower contact. |
| | 210 | | 260 | | | | 104 | | 104 | | ±1, ±9 |
| | | | | | | | | | | | Soft to locally hard, PS ₂ laminated light to med grey, strongly to moderately sericitized, locally silicified, locally pyritic + sph/ln bearing, schist. TOI - 27.5 - Mod silicified, due to adjacent qtz vein + has 3-5% Pg stringers + 3-4% Sph ± Gn bands. Rest of core is 60-70% sericitized lamination + 30-35% dark grey carbonaceous laminations + 5% Pg bands + stringers. 2-3% v.f.g. Sph/ln. Core is mod. broken. Good recovery. lower contact gradational over 2-3 ft as core darkens + is un-altered. Est Ph ± Gn ≤ 2% |
| | 260 | | 510 | | | | 105 | | 109 | | ±4 |
| | | | | | | | | | | | Soft, black to locally light grey, strongly carbonaceous, wealthy pyritic schist. 85-90% black carbonaceous bands, 10% white qtz bands + laminations + 3-5% Pg stringers. All of these define PS ₂ which is steep + constant. locally (5% of core) have light grey ≤ 1ft sericitized zones which may or may not be mod. sheared/gauged. Core is mod broken // PS ₂ |

| Core | From | | To | | Recov. | | | | No. | | | | Unit | Description |
|------|------|------|----|------|--------|----|----|----|-----|-----|-------|--|------|---|
| | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 34 | 36 | | | |
| | | | | | | | | | | | | | | Good recovery. however contact gradational over 20-30cm as core increases in silicification + sulphidization. |
| | | 51.0 | | 61.2 | | | | | | 0.6 | 21A11 | | | (BXA+Qtz flooded) (10Q+Sph, ±Gn, Py minor) 55/30/25 % |
| | | | | | | | | | | | | | | The entire interval is transitional. Top unit is host rocks, middle is Qtz vein, + 3rd is Qtz flooded host rock. |
| | | | | | | | | | | | | | | Dominant - Mod hard PS ₂ laminated, sericitic, siliceous, carbonaceous, pyritic, Sph/Gn bearing schist. It is silicified + sulphidized equivalent of unit 5. 30-40% white silicified sericite bands, 15-20% black carbonaceous bands, 5-10% Qtz bands, 15-20% Sph/Gn bands + stringers, 15-20% irregular Py bands + patches. Rock has banded white, grey/blue, massive appearance. |
| | | | | | | | | | | | | | | 59-57.3 - Gougeon - bedding preserved. |
| | | | | | | | | | | | | | | 57.3-61.3 - Qtz vein w/ minor fragments of host rocks. Has 8-10% Sph, ≤1% Gn + <1% Py. 60.2-61.3 Massive Sph - Note: It is unusual to see so little Gn in Qtz veins. If gold + silver values are abnormal this should be noted. |
| | | | | | | | | | | | | | | 61.3-EOI - Qtz flooded breccia - Host rock is dominant sub-unit but is very strongly brecciated + has 20-30% Qtz, 15-20% Sph ± Gn, + 15-20% Py. |

| Core | From | | To | | Recov. | | No. | | Unit | | Description | |
|------|------|------|----|-----|--------|----|-----|------|------|----|-------------|---|
| | 1 | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | | 34 |
| | | | | | | | | | | | | Entire interval is mod to strongly broken. Good recovery. Est Pb + Zn = 10-12% (higher + lower locally) lower contact gradational over 20cm as rocks becomes massive sulphides. |
| | | 1642 | | 721 | | | | 1072 | 1143 | | | ± 1 |
| | | | | | | | | | | | | Hard, non foliated, pyrrhotitic, sph/ln bearing, high grade pyritic massive sulphides. Core consists of 50-60% Po, 20-25% Py + 25-30% sph/ln, all in irregular patches + blebs + stringers. 5-8% Qtz / Fe-carb veinlets + blebs. lower contact sharp. Marked by disappearance of Po. Core wks to mod. broken. Good recovery. Est Pb + Zn 12-15% |
| | | 721 | | 780 | | | | 1018 | 2164 | | | |
| | | | | | | | | | | | | Hard, non foliated, pyritic, sph/ln bearing, high grade massive sulphides. 70-75% pyrrhotitic to E.g. Py w 25-30% grey + mirror sph/ln locally have higher + lower % ages of sph/ln. Lower contact gradational over 20cm as rocks becomes more siliceous. Core mod - strongly broken - Good recovery. Est Pb + Zn = 12-15% |

DDH F-9.0-08

2 8

CURRAGH RESOURCES INC.
Lithologic Log

Page 07

Date: 23/01/90 Logged By: PL

| Core | From | To | Recov. | No. | Unit | Description |
|------|----------------------------------|--------|--------|------|-------|---|
| 1 | 10 14 16 20 22 24 26 28 30 34 36 | | | | | |
| | 7.8 0 | 9.2 7 | | 10.8 | 2A.4 | BxA |
| | | | | | | |
| | | | | | | Similar to unit 6 - 50-60% dark grey, poorly defined graphitic + lighter grey qtz bands. 15-20% maroon + grey sph/gln bands + stringers. 15-20% irregular Py bands + patches. 80% of core is strongly brecciated but is not qtz flooded. Rock has dark grey/blue & maroon look. Core mod- strongly broken. Good recovery. Est Pb + Zn 8-10% |
| | 9.2 7 | 11.8 5 | | 10.9 | 2E.4 | ± BxA ± 7 minor |
| | | | | | | |
| | | | | | | Hard, non-foliated, pyritic, sph/gln bearing massive sulphides. 85-90% f.g (locally sphaeritic) euhedral Py w̄ 10-15% interstitial sph/gln. Locally have less sph/gln + locally have higher %age where it approaches brecciated ore. Locally have one Pb blk. 14E-E0I - Brecciated. Lower contact gradational over 20-30 cm as rock becomes siliceous. Core strongly broken & brittle locally. Overall Est Pb + Zn - 6-7%. Good recovery. |
| | 11.8 5 | 12.1 4 | | 11.0 | 2A.10 | ± 4 ± BxA |
| | | | | | | |
| | | | | | | Hard Psz ribbon banded, graphitic, pyritic, weakly sph/gln bearing, quartzite. 40-50% mod-well defined black graphitic bands, 40-50% white qtz bands. 10% Py stringers + blks, 4-5% maroon sph±gln stringers. |

| Core | From | | | To | | | Recov. | | | No. | | | Unit | | | Description |
|------|------|----|------|----|----|----|--------|----|----|-----|----|-----|--------|----|----|---|
| | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 34 | 36 | 38 | 40 | 42 | 44 | |
| | | | | | | | | | | | | | | | | upper 1ft is mod. brecciated. lower contact sharp but irregular. Core weakly broken - Good recovery. Est Pb+Zn $\leq 2\%$ |
| | 1.21 | 4 | 1.43 | | | | | | | | | 1.1 | 1.24.9 | | | (10% + Py \pm Gn) 70/30% |
| | | | | | | | | | | | | | | | | light to med grey strongly sericitized, mod. carbonaceous pyritic schist. Rock is completely sericitized + med to light grey w minor gtz rich laminations + 5-8% Py stringers // PSz. 3-5% black carbonaceous blabs. Sz plane is light grey + white + talcose on fingers. 30% gtz veins concentrated from 133.5 - EOI (6 ft in that interval). veins have 5-10% Py + 3-5% Gn + tr. Cpy. Core is mod-strongly broken // PSz PSz changes frequently from steep to // CAX. Good recovery. |
| | | | | | | | | | | | | | | | | 143 EOH |

DIAMOND DRILL CORE LOG

Date: Jan 18/1990

Core Number: 90F-09

Reference Fabric Orientation Diagram:

Project: Faro Fill in Drilling

Location: Faro Pit "S" Phase

Stationing:
Elevation: 1241000

Plane:
Coordinates: 8339.111 N

14782.025 E

Grid Coordinates: _____

Elevation: 3551.091

All symmetry determinations looking

Total Depth: 179'

_____ with _____ dipping

Inclination: 90°

_____ with dip azimuth _____.

Purpose: To better Delineate "S" Phase Ore

Reason hole terminated: Footwall Drilled

Logged by: Peter Ledwidge

Date(s) Logged: _____

Drilling Contractor: Advanced Drilling

Core Sampled: No Steel down Hole: No

| Size | CORE From | To | Collar Cased and Capped: |
|------------|-----------|------------|--------------------------|
| <u>BWL</u> | <u>0</u> | <u>15</u> | _____ |
| <u>BQ</u> | <u>5</u> | <u>179</u> | _____ |

Assay Lab: Northern Analytical

Certificate No's: _____

Started: _____ Completed: _____

F-90-09

DDH F-9.0-0.9
2 8

CURRAGH RESOURCES INC.

Page 1 of 2

Logged by P. Ledwidge

ASSAY LOG (SAMPLER'S COPY)

Date _____ Sampled by P. Ledwidge

9705
9707 →

0 # 99

| CODE | FROM | | TO | | SAMPLE | | INTR. | | REC (m) | | UNIT | | DESCRIPTION |
|------|------|----|------|----|---------|----|-------|----|---------|----|---------|----|-------------------------|
| | 10 | 14 | 16 | 20 | 22 | 26 | 28 | 30 | 32 | 34 | 36 | 40 | |
| | 128 | 5 | 1314 | 0 | 4916177 | | | | | | 21D7141 | | BXA (2H4 ± 3) 70/30% |
| | 154 | 1 | 158 | 8 | 78 | | | | | | 21A141 | | (2H444) (2E4) 50/25/25% |
| | 158 | 8 | 163 | 5 | 79 | | | | | | " | | " |
| | 163 | 5 | 168 | 2 | 80 | | | | | | " | | " |
| | 168 | 2 | 173 | 0 | 81 | | | | | | " | | " |
| | 173 | 0 | 177 | 7 | 82 | | | | | | 21E141 | | (2H4) + 80/20% |
| | 177 | 7 | 182 | 4 | 83 | | | | | | " | | " |
| | 182 | 4 | 187 | 1 | 84 | | | | | | " | | " |
| | 187 | 1 | 191 | 8 | 85 | | | | | | " | | " |
| | 191 | 8 | 196 | 4 | 86 | | | | | | " | | " |
| | 196 | 4 | 1101 | 0 | 87 | | | | | | " | | " |
| | 1101 | 0 | 1105 | 7 | 88 | | | | | | 21E141 | | (2H4) 95/5% |
| | 1105 | 7 | 1110 | 4 | 89 | | | | | | " | | " |
| | 1110 | 4 | 1115 | 1 | 90 | | | | | | " | | " |
| | 1115 | 1 | 1119 | 9 | 91 | | | | | | " | | " |
| | 1119 | 9 | 1124 | 7 | 92 | | | | | | " | | " |
| | 1124 | 7 | 1129 | 7 | 93 | | | | | | 21D51 | | |
| | 1129 | 7 | 1134 | 7 | 94 | | | | | | | | |
| | 1134 | 7 | 1138 | 9 | 95 | | | | | | 21H141 | | ± 1 ± 9 (2E4 ± 1) 95/5% |
| | 1138 | 9 | 1143 | 1 | 96 | | | | | | " | | " |
| | 1143 | 1 | 1147 | 2 | 97 | | | | | | " | | " |
| | 1147 | 2 | 1152 | 1 | 98 | | | | | | 21D7151 | | ± BXA ± 4, ± 9 |
| | 1152 | 1 | 1156 | 7 | 99 | | | | | | " | | " |
| | 1156 | 7 | 1161 | 3 | 100 | | | | | | 21A141 | | ± 1 |
| | 1161 | 3 | 1165 | 9 | 101 | | | | | | " | | " |
| | 1165 | 9 | 1170 | 5 | 102 | | | | | | " | | " |
| | 1170 | 5 | 1175 | 2 | 103 | | | | | | " | | " |
| | 1175 | 2 | 1179 | 7 | 104 | | | | | | " | | " |

Logged by P. Ludwick

ASSAY LOG (SAMPLER'S COPY)

Date 24/01/90 Sampled by P. Ludwick

| CODE | FROM | | TO | | SAMPLE | | INTR. | | REC (m) | | UNIT | | DESCRIPTION |
|------|------|----|------|----|----------|----|-------|----|---------|----|-------|----|-------------------------|
| | 10 | 14 | 16 | 20 | 22 | 26 | 28 | 30 | 32 | 34 | 36 | 40 | |
| | 1314 | | 1319 | 0 | 49171015 | | | | | | 11091 | | ±4±1 (Borderline w 2DS) |
| | 1319 | 0 | 1440 | 0 | 49171016 | | | | | | " | | |
| | 1440 | 0 | 1490 | 0 | 49171017 | | | | | | " | | |
| | 1490 | 0 | 1541 | 0 | 49171018 | | | | | | " | | |
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CURRAGH RESOURCES INC.
Structural Log

| Code | From | | | | To | | | | Feature | SYM | S ₀ Dip Direct. | | | | S ₁ Dip Direct. | | | | S ₂ Dip Direct. | | | | Description | |
|------|------|----|----|-----|----|-----------------|----|----|---------|-----|-------------------------------|----|----|----|-------------------------------|--|--|----|-------------------------------|--|--|--|-------------|---|
| | 10 | 14 | 16 | 20 | 22 | 24 | 26 | 28 | | | 32 | 34 | 38 | 40 | 44 | | | | | | | | | |
| | | | | 119 | 5 | PS ₂ | | | | | | | | | | | | 80 | | | | | | PS ₂ - compositional laminations |
| | | | | 35 | 0 | " | | | | | | | | | | | | | 80 | | | | | " |
| | | | | 49 | 0 | " | | | | | | | | | | | | | 85 | | | | | " |
| | | | | 54 | | " | | | | | | | | | | | | | 85 | | | | | " |
| | | | | 64 | | " | | | | | | | | | | | | | 110 | | | | | " |
| | | | | 112 | 6 | " | | | | | | | | | | | | | 55 | | | | | " |
| | | | | 138 | | " | | | | | | | | | | | | | 65 | | | | | " |
| | | | | 153 | | " | | | | | | | | | | | | | 82 | | | | | " |
| | | | | 161 | 0 | " | | | | | | | | | | | | | 65 | | | | | " |
| | | | | 165 | | " | | | | | | | | | | | | | 70 | | | | | " |
| | | | | 174 | | " | | | | | | | | | | | | | 70 | | | | | " |
| | | | | 179 | | " | | | | | | | | | | | | | 70 | | | | | consolidated & wavy |

| Core | From | | To | | Recov. | No. | Unit | Description | | |
|------|------|----|----|----|--------|-----|-------|---|----|----|
| | 10 | 14 | 18 | 20 | | | | | 22 | 24 |
| | 10 | | 5 | 5 | | 101 | 2E14 | | | |
| | | | | | | | | 0-5 - Rubbly NQ cased - high grade sph/br bearing pyritic quartzite | | |
| | | | | | | | | 5-5.5 - same rubble but BQ core. | | |
| | 5 | 5 | 2 | 8 | 5 | 102 | 1D219 | (1D49 ± 1) 65/35% | | |
| | | | | | | | | Dominant - Black mod. soft (can just scratch w/ knife) PS2 banded, carbonaceous, whly pyritic, whly sph/br bearing, mod. silicified schist - This unit is borderline w/ a 2A0. 85-90% black carbonaceous bands, 10-15% white qtz laminations - 5% f.g. Py + 4-5% micron sph/br stringers, both associated w/ qtz bands. | | |
| | | | | | | | | Lesser - Sericitized version of above. Rock is strongly sericitized & ranges from med grey to almost white - locally is strongly silicified & could be called a 2D0. Inter-calculation is on a cm to dm scale & is gradual to sharp. Local grey gouged zones. | | |
| | | | | | | | | TOI - 16 - Rubble; 16-EOI - whly to mod. broken. 5-10 - 3.5 ft lost; 10-14.5 - 2.5 ft lost; 14.5-16 - 0.1K; 16-19.5 - 1 ft lost; EOT - Good recovery. | | |

| Cofc | From | | To | | Recov. | | No. | | Unit | Description | | | |
|------|------|------|----|------|--------|----|-----|------|-------|---------------|----|----|---|
| | 1 | 10 | 14 | 16 | 20 | 22 | 24 | 26 | | | 28 | 30 | 34 |
| | | | | | | | | | | | | | lower contact sharp but gouged (28.2-28.5). Est Pb+Zn ≤ 2% |
| | | 28.5 | | 34.0 | | | | 1013 | 21D74 | BxA (2H4 ± 3) | | | 70/30% |
| | | | | | | | | | | | | | Hard, brecciated, pyroclastic, pyritic, sph/Gn bearing quartzite. Core consists of 50-60% white qtz, 20-25% Pn, 20-25% Pg, 15-20% Sph/Gn, all as blebs + irregular patches. Local relict banded qtz fragments observed. TUI-30.3 - Massive Pn w 5-10% Pg blebs + 3-5% beige (Fe-carb?) stringers, + has local secondary qtz blebs w ≤ 2um Gr associated w it. Probably also has aphanitic Sph/Gn due to reddish colour. |
| | | | | | | | | | | | | | Entire interval is weakly broken. Good recovery. Lower contact gradational over 30cm as black graphitic bands appear. Est Pb+Zn 10-12% |
| | | 34.0 | | 54.1 | | | | 1041 | D9 | ±4 ± 1 | | | |
| | | | | | | | | | | | | | This is another everchanging unit - It is border line w a 2D5. Core changes frequently on cm to dm scale. Where unaltered is black + same as unit 2 dominant - Is unaltered only over 5% of unit - Rest of unit is mod to strongly sericitized giving |

| Code | From | | To | | Recov. | No. | Unit | Description |
|------|------|-------|-------------------|-------|--------|-----|------|---|
| | 10 | 14 18 | 20 22 24 26 28 30 | 34 38 | | | | |
| | | | | | | | | the core is med to light grey banded looks like also non to strongly silicified. Overall has 20-30% dark grey carbonaceous bands + 60-70% light grey sericite rich bands 5-10% Py bands + 3-5% bio flakes where locally altered. S ₂ plane is black to light grey. locally core has soft light khaki green sericite stringers. lower contact gradational as core gets strongly silicified. Core mod. broken // P _{S2} - P _{S2} steep + constant - local ≤ 1ft grey gouged zones. Recovery good. local Sph/Gn stringers Est Pb+Zn 2-3% |
| | S41 | 1730 | | | | 015 | 2A44 | (2H444) (2E4) 50/25/25 % |
| | | | | | | | | This is a very mixed + misleading unit. Thicknesses seen in core are not true thicknesses because from 59.0 - EOT P _{S2} is // or sub // to CAX + massive sulphides are concentrated there. |
| | | | | | | | | Dominant - silicified + sulphidized equivalent of unit 5. Graphitic, pyritic, Sph/Gn bearing quartzite. 20-25% black graphitic bands, 10-15% Py bands + patches - rest is primary + secondary Qtz w/ local ≤ 5cm massive Sph ± Gn bands + blebs. |
| | | | | | | | | 2 nd + 3 rd unit - Intercalated on cm to dm scale w/ each other + unit 1. but after 59.0 there is |

| Core | From | To | Recov. | No. | Unit | Description | | | | | |
|------|------|------|--------|------|-------|-------------|-------|----|----|----|---|
| 1 | 10 | 14 | 16 | 20 | 22 | 24 | 26 | 28 | 30 | 34 | 36 |
| | | | | | | | | | | | only 10% 2A4 + P ₃₂ is // Cox. Massive sulphides range from very red Sph/Gn bearing P ₃₂ to ophanitic massive P ₃₂ w/ Gn + Cps. specks to almost pure Sph mixed w/ 10-15% P ₃₂ . Lower contact sharp - marked by appearance of euhedral 2EF. Core is weakly broken. Good recovery. Est Pb+Zn - overall 12-15% |
| | 730 | 1101 | 0 | 1016 | 21E4 | (2H4) | | | | | 95/5% |
| | | | | | | | | | | | Hard, pyritic, Sph/Gn bearing high grade massive sulphide. 85-90% f. to med. g. euhedral P ₃₂ w/ 10-15% interstitial maroon Sph/Gn. locally have upto 30% or as low as 5% Sph/Gn. Core is similar to buckshot ore but has not got enough Sph/Gn to call it that. Entire interval is strongly broken & have many powdering zones. 74-79 - 1ft lost; Rest of recovery good. Est Pb+Zn 6-7% |
| | | | | | | | | | | | At first 2ft have local lenses of reddish Sph/Gn bearing P ₃₂ . None found elsewhere in unit. lower contact gradational. |
| | 1101 | 1247 | 0 | 107 | 21E01 | ± 4 | (2H4) | | | | 95/5% |
| | | | | | | | | | | | This is the same as unit 7 but have lower Sph/Gn % age local high grade (almost 2F0) w/ upto 20% Sph/Gn. Rest is massive P ₃₂ w/ 5-8% interstitial |

| Core | From | | To | | Recov. | | | | No. | | Unit | Description |
|------|---------|----|---------|----|--------|----|----|----|-----|--------|---------|--|
| | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 34 | | |
| | | | | | | | | | | | | Sph/Gn. 117-8-119. Base of sph/gn bearing reddish massive P. Lower contact gradational over 10cm - becomes banded + siliceous. Core mod broken. Local powdery crustal zones. Good recovery. Est Pb+Zn 3-4% |
| | 1,2,4,7 | | 1,3,4,7 | | | | | | 108 | 210,51 | | |
| | | | | | | | | | | | | Hard, PSz banded, pyritic, sph/gn bearing, weakly carbonaceous, quartzite. 60-70% blue grey qtz bands, 3-5% dark grey to black, poorly to well defined carbonaceous bands, 15-20% irregular py bands + 8-10% maroon sph/gn stringers. PSz well defined, steep + constant. 1% white (sericite + qtz?) thread-like stringers. // Sz. Lower contact sharp but irregular. Core mod broken // PSz - Good recovery. Est Pb+Zn 4-5% |
| | 1,3,4,7 | | 1,4,7,2 | | | | | | 109 | 211,41 | ± 1 ± 9 | (2E4 ± 1) 95/5% |
| | | | | | | | | | | | | Hard, non foliated, sph/gn bearing, high grade, pyrohotitic massive sulphides. Core consists of 90-95% sph/gn bearing reddish pyrohotite w 2-3% ≤ 2mm qtz blebs + 5-8% v.f.g. Sph + Gn specks - locally have bands + blebs w f.tom. g. py w 8-10% interstitial sph/gn + 3-5% qtz blebs. Tr Cpy in massive P. Entire interval is weakly broken - Good recovery. Local |

| Code | From | To | Recov. | No. | Unit | Description | | | | | |
|------|-------|-------|--------|-----|---------|-------------|----|----|----|----|---|
| 1 | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 34 | 36 |
| | | | | | | | | | | | bands of P ₂ laminated Qtz rich (15-20% Qtz) pyrrhotite. |
| | | | | | | | | | | | lower contact gradual over 30cm as rock gets |
| | | | | | | | | | | | more siliceous. Est Pb + Zn 10-12% |
| | 1.472 | 1.521 | | 110 | 21D.7.5 | | | | | | ± BXA ± 4 ± 9 |
| | | | | | | | | | | | Hard, P ₂ laminated, locally brecciated, weakly |
| | | | | | | | | | | | carbonaceous, pyritic, locally pyrrhotitic, weakly sph/ln |
| | | | | | | | | | | | bearing quartzite 50-60% white Qtz, 25-30% Py |
| | | | | | | | | | | | bands + stringers, 5-8% sph/ln stringers 5-8% |
| | | | | | | | | | | | carbonaceous bands. Core is brecciated over 50% of |
| | | | | | | | | | | | interval & Qtz flooded where brecciated. In these areas |
| | | | | | | | | | | | have ≤ 2cm Gn ± sph blks + brgs (Fe-carb?) stringers. |
| | | | | | | | | | | | Core weakly broken - Good recovery. Est Pb + Zn 4-5% |
| | | | | | | | | | | | Lower contact sharp & P ₂ Top of interval has 10-15% |
| | | | | | | | | | | | P ₂ bands. |
| | 1.521 | 1.752 | | 111 | 21A.4 | | | | | | ± 11 |
| | | | | | | | | | | | Hard, P ₂ ribbon-banded, pyritic, sph/ln bearing, |
| | | | | | | | | | | | graphitic quartzite. 50-60% white Qtz bands, |
| | | | | | | | | | | | 30-35% black graphitic bands, 10-15% sph/ln |
| | | | | | | | | | | | and/or Py stringers associated w Qtz. Some areas |
| | | | | | | | | | | | have only Py, others only sph/ln & others a |
| | | | | | | | | | | | mixture. local Gn blks. P ₂ steep & constant. |
| | | | | | | | | | | | 168-EOI- Rock is v. strongly silicified & is very |

| Core | From | | | To | | | Recov. | | | No. | | | Unit | Description |
|------|-------|----|-------|----|----|----|--------|----|----|-----|-----|-----|------|--|
| | 1 | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 34 | 36 | | |
| | | | | | | | | | | | | | | hard + light coloured - graphite bands weakly discernible - Qtz vein PtzGn at 168.2-169.5. lower contact is gradational over 20cm. Core mod. broken // Sz - Good recovery - Est PtzGn - 5-6% |
| | 11715 | 2 | 11719 | 0 | | | | | | 112 | 110 | 219 | | |
| | | | | | | | | | | | | | | Mod. hard, Ptz laminated, strongly graphitic, pyritic, mod. sericitic rich, schist. 70-80% black carbonaceous bands, 15-20% light grey to white sericitized laminations, 5-10% Qtz laminations, 5% Ptz stringers + blks. Ptz is often crenulated. Sz plane is black & crenulated & stains fingers grey. Core weakly broken. Good recovery. No base metals. |
| | | | | | | | | | | | | | | 179 EOH |

DIAMOND DRILL CORE LOG

Date: Jan 14/1990

Hole Number: 90F-10

Reference Fabric Orientation Diagram:

Project: Faro Fill in Drilling

Location: Faro Pit "S" Phase

Section: 19 + 000

~~Plane~~
Mine
Plane
Co-ords.: 8301.423 N

14701.132 E

Grid
Co-ords: _____

Elevation: 3550.205

All symmetry determinations looking

Total Depth: 154'

_____ with _____ dipping

Inclination: 70° Az 315°

_____ with dip azimuth _____.

Purpose: To better Delineate "S" Phase Ore

Reason hole Terminated: Footwall Drilled

Logged by: Peter Ledwidge

Date(s) Logged: _____

Drilling Contractor: Advanced Drilling

Hole Cemented: No Steel down Hole: No

| Size | CORE From | To |
|------|-----------|------|
| BWL | 0 | 5' |
| BA | 5' | 154' |

Collar Cased and Capped: No

Assay Lab: Northern Analytical

Certificate No's: _____

Started: _____ Completed: _____

R-90-10

DDH F₁-9.0-1.0
2 8

CURRAGH RESOURCES INC.

Page 1 of 1

Logged by P. Hedwidge

ASSAY LOG (SAMPLER'S COPY)

Date 25/01/90 Sampled by P. Hedwidge

| CODE | FROM | TO | SAMPLE | INTR. | REC (m) | UNIT | DESCRIPTION | |
|------|---------|---------|-------------|-------|----------|--------|--|-----|
| 1 | 10 14 | 16 20 | 22 26 28 30 | 32 34 | 36 40 42 | | | |
| | 12.4 5 | 12.8 5 | 4.9 7.0 1.9 | | | 1101Q1 | ± Py, Gn, sph (11024) 90/10% | 100 |
| | 12.8 5 | 13.2 5 | 1.0 | | | " | " | 100 |
| | 13.2 5 | 13.6 0 | 1.1 | | | 210115 | ±4 (2H44) (IF1) SS/25/20% | 33 |
| | 13.6 0 | 13.9 5 | 1.2 | | | " | (± 0.5ft massive sph) " | 33 |
| | 13.9 5 | 14.4 2 | 1.3 | | | 210115 | ± BxA | 33 |
| | 14.4 2 | 14.8 9 | 1.4 | | | " | " | 33 |
| | 14.8 9 | 15.3 5 | 1.5 | | | 21E10 | ± 8, ± 4, ± 1 minor (21015 BxA) 80/20% | 40 |
| | 15.3 5 | 15.8 4 | 1.6 | | | 21A14 | | 23 |
| | 15.8 4 | 16.3 3 | 1.7 | | | " | | 23 |
| | 16.3 3 | 16.8 2 | 1.8 | | | " | | 23 |
| | 16.8 2 | 17.3 1 | 1.9 | | | " | | 23 |
| | 17.3 1 | 17.8 0 | 2.0 | | | " | | 23 |
| | 17.8 0 | 18.3 0 | 2.1 | | | " | | 23 |
| | 18.3 0 | 18.8 0 | 2.2 | | | " | | 23 |
| | 18.8 | 19.2 2 | 2.3 | | | 21E15 | | 50 |
| | 19.2 2 | 19.6 4 | 2.4 | | | " | | 56 |
| | 19.6 4 | 110.0 5 | 2.5 | | | " | | 50 |
| | 110.0 5 | 110.3 9 | 2.6 | | | 21H41 | (2EF) 85/15% | 70 |
| | 110.3 9 | 110.7 3 | 2.7 | | | " | " | 70 |
| | 110.7 3 | 111.1 5 | 2.8 | | | 21E15 | | 50 |
| | 111.1 5 | 111.5 7 | 2.9 | | | " | | 50 |
| | 111.5 7 | 112.0 4 | 3.0 | | | 21A41 | ± 7 minor | 21 |
| | 112.0 4 | 112.5 1 | 3.1 | | | " | " | 21 |
| | 112.5 1 | 112.9 8 | 3.2 | | | " | " | 21 |
| | 112.9 8 | 113.4 5 | 3.3 | | | " | " | 21 |
| | 113.4 5 | 113.9 2 | 3.4 | | | " | " | 21 |
| | 113.9 2 | 114.3 9 | 3.5 | | | " | " | 21 |
| | 114.3 9 | 114.8 7 | 4.9 7.3 1.6 | | | " | " | 21 |

entered dkd.

DDH F-9.0-1.0
 2 8

CURRAGH RESOURCES INC.
Structural Log

Date: 25/01/90 Logged By: P. Ledwidge

| Code | From | | | | To | | | | Feature | S ₀ | | S ₁ | | S ₂ | | Description |
|------|------|----|----|-----|----|-------|----|----|---------|----------------|---------|----------------|---------|----------------|---------|------------------------------|
| | 10 | 14 | 16 | 20 | 22 | 24 | 26 | 28 | | Dip | Direct. | Dip | Direct. | Dip | Direct. | |
| | | | | 116 | 0 | P 52 | | | | | | | | 52 | | Compositional lamination |
| | | | | 33 | 0 | " | | | | | | | | 85 | | |
| | | | | 40 | 0 | " | | | | | | | | 61 | | |
| | | | | 48 | | " | | | | | | | | 44 | | |
| | | | | 54 | | " | | | | | | | | 87 | | |
| | | | | 74 | | " | | | | | | | | 74 | | |
| | | | | 85 | | " | | | | | | | | 82 | | |
| | | | | 116 | | " | | | | | | | | 63 | | |
| | | | | 130 | | " | | | | | | | | 68 | | |
| | | | | 137 | | " | | | | | | | | 56 | | |
| | | | | 143 | 0 | 114+5 | " | | | | | | | 10 | | + corrodulated - (uled mass) |
| | | | | 145 | 5 | " | | | | | | | | 69 | | |
| | | | | 148 | 7 | 154 | 0 | " | | | | | | | | S2-0 lithom + corrodulated |
| | | | | | | | | | | | | | | | | |
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| Cofc | From | | To | | Recov. | | No. | Unit | Description |
|------|------|------|----|------|--------|----|-----|-------|--|
| | 10 | 14 | 18 | 20 | 22 | 24 | | | |
| | | 0 | | 5 | | | 01 | | Casing - No return |
| | | 5 | | 24.5 | | | 02 | 1D241 | Mod hard, PS2 laminated, sericitized, weathly to mod. silicified, carbonaceous, black schist - Core is banded dark to light grey. 60-65% light grey sericitized bands, 30-35% dark grey to black carbonaceous bands, 5-8% white qtz stringers, 5% Py and/or Sph/Gn stringers. TOI - 16 - Rubbly, 16 - EOI. v. strongly broken RQD - 3% ; 5-9 - 3ft lost; 9-13 - 3ft lost; 13-14.5 - 0.5ft lost; 19.5-24.5 - 0.5ft lost; Rest of recovery good. Lower contact sharp but broken + gaused (gaused 24-24.5). 5-13.0 - Gaused. Local crenulations + lithons. Est Pb+Zn $\leq 2\%$ |
| | | 24.5 | | 32.5 | | | 03 | 1D241 | \pm Py; Gn, Sph (1D241) 90/10% |
| | | | | | | | | | This interval is a qtz flooded area - locally can see fragments of host rocks (unit 2). Vein is brecciated. Overall - 55-60% qtz, 15-20% Py in patches + blchs, 10% host rock, + 8-10% Sph \pm Gn (core is v. strongly broken to rubbly. RQD - 50% Recovery good. Lower contact sharp but marked by rubbly host rocks (relatively unaltered + black) |

| Core | From | | To | | Recov. | | No. | | Unit | Description | |
|------|------|------|----|------|--------|----|-----|-----|-------|-------------|--|
| | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | | | 30 |
| | | | | | | | | | | | Est Pb+Zn - 4-5% |
| | | 32.5 | | 39.5 | | | | 104 | 21DHS | | ±4, (2H44) (IF1) 55/25/20 % |
| | | | | | | | | | | | Very mixed high grade unit. |
| | | | | | | | | | | | Dominant - Hard PS ₂ laminated weakly carbonaceous pyritic, sph/bn bearing blue/grey quartzite. Same as unit 5 (dominant). |
| | | | | | | | | | | | 2 nd sub-unit - Hard non foliated, v. high grade sph/bn bearing pyrohotitic, massive sulphides. Core is 60-70% reddish Po w 30-40% f.g. interstitial sph/bn. This unit is intercalated w main unit on cm to dm scale. |
| | | | | | | | | | | | 3 rd sub-unit - (TOI - 34.0) Strongly silicified metabasite lenses. Med to light green/yellow - PS ₂ laminated - No apparent sulphides. Lower contact brecciated. |
| | | | | | | | | | | | 35.3-35.8 - Massive massive sph ± Gm associated w secondary Qtz vein. (Qtz vein goes to 36.4 & has 15% sph, 10% Py, & tr. Cpy from 35.8-36.4) |
| | | | | | | | | | | | Entire interval is whly broken. RQD - 60% |
| | | | | | | | | | | | Good recovery. Est Pb+Zn 10-12% (average) |

| Core | From | | To | | Recov. | | | No. | | | Unit | Description | |
|------|------|-----|----|----|--------|----|----|-----|----|-----|------|-------------|--|
| | 1 | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | | | 34 |
| | | 3.9 | 5 | | 15.3 | 5 | | | | 0.5 | 2.0 | 1.5 | ± BxA (2E0, ±8, ±4, ±laminar) 70/30% |
| | | | | | | | | | | | | | Dominant - Very hard, P ₃ laminated, pyritic, very siliceous, sph/gen bearing, medium grade, weakly carbonaceous, quartzite. 50-60% white qtz laminations, 20-25% v.f.g. P ₃ stringers, 8-10% v.f.g. maroon + grey sph/gen stringers, 10-15% black poorly to mod defined carbonaceous bands. Core is brecciated locally & has ≤ 5cm P ₃ patches & blebs. RQD - 50% Core weakly broken but has rubble zones locally. |
| | | | | | | | | | | | | | Sub-unit - (49.0 - 52.0) - Hard, non-foliated, pyritic, weakly Mt-bearing, sph/gen bearing, weakly siliceous, massive sulphides. 90-95% aphanitic grey/brassy P ₃ which may contain Gn ± sph (due to grey colour). 2-3% ≤ 1mm Mt blebs, 3-5% rounded ≤ 1cm qtz blebs. Core is rubble over this sub-unit. RQD 0% |
| | | | | | | | | | | | | | Entire interval has good recovery. Lower contact is sharp but brecciated. Est Pb + Zn - 4-5% |
| | | 5.3 | 5 | | 8.8 | 0 | | | | 0.6 | 2.1 | 1.4 | |
| | | | | | | | | | | | | | Hard, P ₃ ribbon-banded, pyritic, sph/gen bearing, graphitic quartzite. 40-50% white qtz bands, 25-30% black, well defined carbonaceous bands, 20-25% P ₃ /sph/gen stringers, associated w qtz. 5% secondary beige Fe-carb |

| Core | From | | To | | Recov. | | | No. | | | Unit | Description |
|------|-------|----|-------|----|--------|----|----|-----|------|----|------|---|
| | 1 | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | | |
| | | | | | | | | | | | | veinlets which crosscut P52 @ 30-40% . P52 steep & constant. 66.5-75 - Core v. strongly broken // P52 to rubble. RQD - 0 for this interval. Rest of core med to strongly broken - RQD - 40% Recovery is good. Est Pb + Zn 5-6% - lower contact sharp & // P52 |
| | 1818 | | 11010 | 5 | | | | | 1017 | 2 | EF | |
| | | | | | | | | | | | | Hard, non foliated, pyritic, sph/Gn bearing, high grade brecciated facies massive sulphides. 80-85% med. g. euhedral Py w 15-20% interstitial maroon sph/Gn. Core strongly broken w local rubble powdering zones. RQD - 5%. Locally have higher & lower sph/Gn % variations (from 5-30%) Lower contact sharp Marked by appearance of massive Pb lenses. Est Pb + Zn 8-10% |
| | 11010 | 5 | 11017 | 3 | | | | | 1018 | 2 | H4 | (2EF) 85/15% |
| | | | | | | | | | | | | Dominant - Hard non-foliated pyritic, sph/Gn bearing, high grade massive sulphides. Core consists of copper-red, sph/Gn bearing massive Pb. Lesser - Same as unit 7. |
| | | | | | | | | | | | | Both units are intercalated on cm to dm scale. |

DDH F-90-10
2 8CURRAGH RESOURCES INC.
Lithologic LogPage 7Date: 25/01/90 Logged By: PL

| Core | From | | | To | | | Recov. | | | | | | No. | Unit | Description |
|------|------|-------|----|-------|----|----|--------|----|----|----|----|----|-----|------|--|
| | 1 | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 34 | 36 | | | |
| | | | | | | | | | | | | | | | Core is mod broken - RQD - 60% - Recovery is good. Est Pb + Zn 10-12% |
| | | 1,073 | | 1,115 | | | | | | | | | 09 | 2EF | (1F9) 93/7% |
| | | | | | | | | | | | | | | | Dominant - Same as unit 07 - Core strongly broken. RQD - 5% Good recovery. Est Pb + Zn 8-10% |
| | | | | | | | | | | | | | | | Lesser - (111-113; 114-3-114-6) Soft gouged pyritic, grey w green tinge metabasite. Is completely gouged & compacted mud w relict PS ₂ still present. 10-15% f.s. Py. 2-3% maroon acicular adamantine (Sph?) tubular needles. |
| | | | | | | | | | | | | | | | Lower contact sharp, but irregular. |
| | | 1,115 | | 1,148 | | | | | | | | | 110 | 2AM | ± 7 minor |
| | | | | | | | | | | | | | | | Hard, graphitic, PS ₂ ribbon-banded, pyritic, Sph/Gn bearing quartzite. PS ₂ well defined by 60-65% black graphitic bands, + 20-25% white Qtz bands. 15-20% Py and/or maroon Sph ± Gn stringers associated w Qtz bands. Also local secondary Py + Sph ± Gn blebs + patches. PS ₂ is steep but locally is 11 AX & crenulated. Est Pb + Zn 6-7% - Local Pb bands. |
| | | | | | | | | | | | | | | | TOI - 12% strongly broken - RQD - 30% Good recovery 12% - EOI - weakly broken - RQD - 75% - Good recovery. |

DDH E-9.0-1.0
2 8

CURRAGH RESOURCES INC.

Lithologic Log

Date: 25/01/90 Logged By: PL

| Cofe | From | | | To | | | Recov. | | | | No. | Unit | Description |
|------|------|----|----|----|----|----|--------|----|----|----|-----|------|---|
| | 1 | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | | | |
| | | | | | | | | | | | | | Lower contact sharp + // P52 |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 11418 7 11540 1111 11D111 |
| | | | | | | | | | | | | | Soft to hard strongly sericitized, weakly to strongly silicified, crenulated, P52 laminated, carbonaceous, light grey schist. Core is 75-80% light grey sericitized and silicified laminations & 15-20% dark grey carbonaceous laminations - locally core is only weakly silicified. 2-3% v-f.g. Py. S2 planes are white & soft & talcose & white on fingers. Core mod - strongly broken // P52. P52 semi-steep & crenulated. Good recovery - RR12 - 60% |
| | | | | | | | | | | | | | 154 EOH |
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DIAMOND DRILL CORE LOG

Date: Jan 20 1990

Hole Number: 90F-11

Reference Fabric Orientation Diagram:

Project: Faro Fill in Drilling

Location: "S" Phase Faro Pit

Section Claim: 126 + 000

Mine Terr. Plane Co-ords.: 8464.064 N

15260.120 E

Grid Co-ords: _____

Elevation: 3590.753

All symmetry determinations looking

Total Depth: 144'

_____ with _____ dipping

Inclination: 90°

_____ with dip azimuth _____

Purpose: To better delineate "S" Phase Ore

Reason hole Terminated: Foot wall drilled

Logged by: Peter Hedwidge

Date(s) Logged: _____

Drilling Contractor: Advanced Drilling

Hole Cemented: No Steel down Hole: No

| Size | CORE From | To | Collar Cased and Capped: |
|------|-----------|-----|--------------------------|
| BW1 | 0 | 5 | <u>No</u> |
| BG | 5 | 144 | |

Assay Lab: Northern Analytical

Certificate No's: _____

Started: _____ Completed: _____

F-90-11

DDH $\frac{F-9.0}{2} = \frac{1.1}{8}$

CURRAGH RESOURCES INC.

Page 1 of 2

Logged by P. Hodwidge

ASSAY LOG (SAMPLER'S COPY)

Date _____ Sampled by P. Hodwidge

| CODE | FROM | TO | SAMPLE | INTR. | REC (m) | UNIT | DESCRIPTION | | |
|------|--|-----|--------|-------|---------|------|-------------|---|-----|
| 1 | 10 14 16 20 22 26 28 30 32 34 36 40 42 | | | | | | | | |
| | 16 | 110 | 7 | 419 | 73 | 7 | 2E10 | $\pm 8 \pm 4 \pm 9$ minor (2C0) 50/50% | 40 |
| | 110 | 7 | 115 | 4 | 3 | 8 | 2E10 | $\pm 8 \pm 4 \pm 9$ minor | 40 |
| | 115 | 4 | 20 | 0 | 3 | 9 | " | " | 40 |
| | 20 | 0 | 24 | 8 | 4 | 0 | 2C0 | BXA | 33 |
| | 24 | 8 | 29 | 6 | 4 | 1 | " | " | 33 |
| | 29 | 6 | 34 | 4 | 4 | 2 | " | " | 33 |
| | 34 | 4 | 39 | 2 | 4 | 3 | " | " | 33 |
| | 39 | 2 | 43 | 0 | 4 | 4 | 2D0 | (2E0 ± 4) (2F4) 40/35/25% | 33 |
| | 43 | 0 | 46 | 8 | 4 | 5 | " | " | 33 |
| | 46 | 8 | 50 | 7 | 4 | 6 | " | " | 33 |
| | 50 | 7 | 56 | 2 | 4 | 7 | 2D10 | ± 9 minor | 33 |
| | 56 | 2 | 61 | 0 | 4 | 8 | 2D10 | ± 8 | 33 |
| | 61 | 0 | 65 | 8 | 4 | 9 | " | " | 33 |
| | 65 | 8 | 70 | 5 | 5 | 0 | " | " | 33 |
| | 70 | 5 | 75 | 2 | 5 | 1 | 2E8 | $\pm 1, \pm 4$ minor | 40 |
| | 75 | 2 | 80 | 0 | 5 | 2 | " | " | 40 |
| | 80 | 0 | 82 | 6 | 5 | 3 | 2E84 | ± 1 | 40 |
| | 82 | 6 | 84 | 9 | 5 | 4 | 2E8 | $\pm 1, \pm 4$ minor | 40 |
| | 84 | 9 | 91 | 0 | 5 | 5 | 2C0 | $\pm 8, \pm 4$ minor | 31 |
| | 91 | 0 | 95 | 3 | 5 | 6 | " | " | 31 |
| | 95 | 3 | 110 | 0 | 5 | 7 | " | " | 31 |
| | 110 | 0 | 110 | 3 | 5 | 8 | 2F0 | ± 1 minor | 50 |
| | 110 | 3 | 110 | 6 | 5 | 9 | 2A0 | ± 8 XA | 21 |
| | 110 | 6 | 110 | 9 | 5 | 0 | 2A0 | ± 8 XA (2J7 ± 1 I3) 70/30% | 21 |
| | 110 | 9 | 111 | 4 | 5 | 1 | 11D14119 | [borderline = 2D5] (100 + 1 ₂ (n ± 5 ph C ₇)) 80/20% | 120 |
| | 111 | 4 | 111 | 8 | 5 | 2 | " | " | 120 |

if range ->

Next Page

DDH F-90-11
2 8

CURRAGH RESOURCES INC.
Structural Log

Date: 26/01/90 Logged By: P. Ledwidge

| Code | From | | | | To | | | | Feature | S ₀ Dip Direct. | S ₁ Dip Direct. | S ₂ Dip Direct. | | | | Description |
|------|-------|----|----|----|-------|----|----|-------|---------|-------------------------------|-------------------------------|-------------------------------|----|-----|----|--|
| | 1 | 10 | 14 | 16 | 20 | 22 | 24 | 26 | | | | 28 | 32 | 34 | 38 | |
| | | | | | 47 | | | P S 2 | | | | | | 39 | | WLT - PS2 lamination |
| | | | | | 73 | | | " | | | | | | 710 | | weaken Mt Foliation |
| | | | | | 11016 | | | " | | | | | | 910 | | PS2 - compositional laminations |
| | 11019 | 9 | | | 11216 | 3 | | " | | | | | | | | 0-70 - crenulated - among lithons + small folds |
| | | | | | 1127 | 0 | | " | | | | | | 75 | | crenulated |
| | 11218 | 0 | | | 1144 | 0 | | " | | | | | | | | 30-0 - crenulated & folded. |
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DDH 90-11
2 8CURRAGH RESOURCES INC.
Lithologic LogPage 3Date: 25/01/90 Logged By: P. Hedwidge

| Core | From | | To | | Recov. | | No. | | Unit | | Description |
|------|------|-----|----|-----|--------|----|-----|-----|------|----|---|
| | 1 | 10 | 14 | 18 | 20 | 24 | 26 | 28 | 30 | 34 | |
| | | 0 | | 6? | | | | 101 | | | Casing - No return |
| | | 6? | | 8? | | | | 102 | 2C10 | | |
| | | | | | | | | | | | Crushed rock - Pyritic quartzite - 60-70% white gtz, 30-40% f.g. Py. crushed to ≤ 2 cm pieces. RQD - 0% 1ft + lost on interval. |
| | | 8? | | 200 | | | | 103 | 2E10 | | $\pm 8\pm 1 \pm 9$ minor |
| | | | | | | | | | | | Hard, non-foliated pyritic, weakly sph/bn bearing, locally Mt bearing, weakly siliceous quartzite. 85-90% f. to med. g. Py; 5% (average) interstitial maroon sph/bn, 5-10% ≤ 2 cm gtz blebs. 30% of core has 5% ≤ 2 mm Mt blebs, weakly stretched, but not well enough to identify a good foliation. Local Cp, blebs. Some of core is completely massive Py & other areas have up to 15-20% gtz. Lower contact sharp; marked by absence of Mt & slightly gashed rock (on next unit). TOT-13.5 - Core very strongly broken & rubble - RQD 5%; 13.5-EOT - strongly broken - RQD - 40%. 8-10 - 0.5ft lost; Rest of recovery good. Est Pb+Zn - 2-3% |
| | | 200 | | 39? | | | | 104 | 2C10 | | BXA |
| | | | | | | | | | | | Hard, non foliated, pyritic, brecciated quartzite. |

| Core No. | From | | To | | Recov. | | | No. | | | Unit | Description |
|-------------|------|----|----|----|--------|----|----|-----|-----|----|------|--|
| | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 34 | | |
| | | | | | | | | | | | | Core consists of 60-70% f.g. Py which has been brecciated into angular to rounded fragments & has been interstitially filled w/ white sil. No apparent base metals. TUI = 27 = v. strongly broken & powdery. RQD = 0%; 27-50I - weakly broken - RQD = 80% - lower contact sharp. Marked by appearance of 2F4 & 2D0 lenses. Good recovery. Est Pb + Zn < 2% |
| | 3.9 | 2 | 50 | 7 | | | | | 0.9 | 2 | D0 | (2E0 ± 4) (2F4) 40/35/25% |
| | | | | | | | | | | | | All 3 sub-units grade in & out of each other on a cm to dm scale & sometimes the rock is a combination of 2 of the sub-units - Rock ranges from massive, v. weakly (< 4%) sph/bn pyrite; to a blueish grey non to v. weakly ps2 laminated quartzite w/ 60% qtz, 30% f.g. Py & 10% v.f.g. maroon sph/bn; to brecciated ore w/ 60-70% m.g. euhedral Py & 30-40% interstitial maroon sph ± Gn. Lower contact is poorly defined but is marked by the absence of 2F4 lenses. Core is weakly broken. RQD = 90%. Good recovery Est Pb + Zn 7-8% |
| | 50 | 7 | 56 | 2 | | | | | 0.6 | 2 | D0 | ± 9 minor |
| | | | | | | | | | | | | Hard, locally weakly ps2 laminated, pyritic, Gn ± sph bearing quartzite. Core is 50-60% white |

| S | From | | To | | Recov. | | | No. | | | Unit | | | Description |
|---|------|----|-----|----|--------|----|----|------|-----|-----|------|----|--|---|
| | 1 | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 34 | 38 | | |
| | | | | | | | | | | | | | | qtz, 35-40% f.g. Py in irregular patches, 5-8% v.f.g. silver Gn ± sph. local tr. Cpy blebs. Core is mod. broken - RQD - 50%. Good recovery. lower contact sharp - marked by appearance of Mt. Est Pb+Zn - 3-4% |
| | 516 | 2 | 710 | 5 | | | | 1017 | 210 | 101 | | | | ±8 |
| | | | | | | | | | | | | | | Hard, locally weakly P32 foliated, pyritic, weakly sph/ln bearing, Mt bearing quartzite. 70-80% f.to med.g. subradial Py, 20-25% white to grey/blue qtz. 50% of core has 5-8% ≤ 2mm stretched 2:1 Mt blebs. These weakly defines foliation. 5-8% v.f.g. silver Gn ± sph. locally core has ≤ 5% qtz. Core is mod. broken. RQD - 80%. Good recovery. Est Pb+Zn 3-4%. lower contact marked by more massive rock w high Mt %age. Sharp. |
| | 710 | 5 | 810 | 0 | | | | 08 | 215 | 81 | | | | ±1; ±4 minor |
| | | | | | | | | | | | | | | Hard, pyritic, Mt bearing, v. weakly Gn/sph bearing, weakly to med. siliceous, massive sulphides. 75-80% m.g. subradial Py, 10% ≤ 2m Mt blebs stretched 2:1 11P32; 10-15% grey qtz. Tr. Gn, Cpy ± sph. TOT - 74- < 3% qtz. local areas have up to 20-25% qtz. Core v. weakly broken. Good recovery. RQD - 100% |

| Core | From | | To | | Recov. | No. | Unit | Description | | | |
|------|------|-----|----|------|--------|-----|------|--|--------------|----|----|
| | 1 | 10 | 14 | 18 | | | | | 20 | 22 | 24 |
| | | | | | | | | Est Pb + Zn < 2% - Lower contact sharp - Marked by appearance of sph rich bands. | | | |
| | | 810 | 0 | | 826 | | 109 | 2E8.4 | ±1 | | |
| | | | | | | | | Hard, non-foliated, pyritic, Mt/Sph/Gn bearing, weakly siliceous, massive sulphides. 80-90% euhedral m.g. Py w bands of 60-70% maroon/grey Sph/Gn/Mt w 30-40% euhedral Py. 10-15% white gtz patches + irregular bands. Tr. cps blebs. Core v. weakly broken - Good recovery. RQD - 100%. Lower contact sharp - Marked by absence of Mt/Sph/Gn bands. Est Pb + Zn - cannot infer due to Mt + Sph being mixed. | | | |
| | | 826 | | 1849 | | | 110 | 2E8 | ±1, ±4 minor | | |
| | | | | | | | | Same as unit 08. RQD 100% - Good recovery. Lower contact sharp - marked by Qtz increase. | | | |
| | | 849 | | 1005 | | | 111 | 2E10 | ±8, ±4 minor | | |
| | | | | | | | | Hard, locally ss laminated, pyritic, locally Mt bearing, v. weakly Sph/Gn bearing quartzite. 60-70% f.g. Py; 30-35% blue/grey + white gtz bands + blebs, 5% black Mt blebs over 50% of core. 93 - EOI - Seem | | | |

DDH F-90-11
2 8CURRAGH RESOURCES INC.
Lithologic LogPage 7Date: 26/01/90 Logged By: PL

| Core No. | From | | To | | Recov. | | | No. | | | Unit | Description |
|-------------|-------|----|-------|----|--------|----|----|-----|-----|-------|------|---|
| | 1 | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | | |
| | | | | | | | | | | | | to have less gtz - difficult to assess due to rubble zone from 94 - EOI. however contact sharp - marked by appearance of Sph/Gn. Core has trace Gn±Sph. TOI = 94.0 - Mod-broken - RQD = 50% ; 94 - EOI rubble - RQD = 0% - possible fault zone. 93-96.5 - 0.5ft lost; 98.5 - 100 - 1.3ft lost; Rest of recovery v. fr. Est Pb+Zn < 2% |
| | 11010 | 5 | 11013 | 7 | | | | | 112 | 21F10 | | ± 1 minor |
| | | | | | | | | | | | | Hard, non-foliated, pyritic, Sph/Gn bearing, v. weakly siliceous, massive sulphides. 70-80% mig. euhedral Py w 20-25% interstitial, aphanitic, in narrow Sph/Gn, 5% random gtz blebs. Core mod-strength broken. RQD 50% Good recovery. however contact sharp but broken. local lower grade areas. Est Pb+Zn 8-10 % |
| | 11013 | 7 | 11019 | 9 | | | | | 113 | 21A10 | | ± BXA (2J7 ± 1 ± 3) * 82 / 18 % |
| | | | | | | | | | | | | Hard, P&S laminated, locally brecciated, carbonaceous, pyritic, Sph/Gn bearing massive sulphides. 60-65% black carbonaceous bands, 20-25% white gtz laminations, ± 8-10% Py/Sph/Gn stringers. Core is brecciated over 50% of interval & has secondary gtz ± 10-15% Py patches & 5% Sph/Gn patches. |

| Core No. | From | | To | | Recov. | | | No. | | | Unit | | Description |
|-------------|-------|----|-----|----|--------|----|----|-----|-----|-----|------|--|--|
| | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 34 | 38 | | |
| | | | | | | | | | | | | | 108.5-109.6 - Massive sph ± Gn w Pu + minor Py bands: 15-20% diss Qtz. Very high grade. |
| | | | | | | | | | | | | | Core mod. broken // P _{S2} where unbrecciated + weakly broken where brecciated. RQD - 30%. Lower contact brecciated, sharp & irregular. Est Pb+Zn (average) 8-10% |
| | 110.9 | 9 | 126 | 3 | | | | | 114 | 114 | 119 | | [Borderline w 2DS] (10Q + Py, Gn ± Sph, Cpy) 80/20% |
| | | | | | | | | | | | | | Mod hard (can barely scratch w knife), mod silicified, mod sericitized, pyritic, carbonaceous schist. 70-75% white silicified + sericitized lamination, 10-15% dark grey poorly defined carbonaceous lamination, 8-10% Py stringers. 3-5% v.f.g. sph/Gn associated w Py. Core has 20% Qtz veins up to several ft long. These contain 10% Py, 10% Gn, minor Sph & Cpy. Local gorged grey P _{S2} laminated compact mod. lower contact sharp; marked by gorge at 126.0-126.3. Core strongly to v-strongly broken. RQD - 10%. Good recovery, 1% ± 0.5cm anhedral pink garnets - P _{S2} often crumpled & has many libans. Est Pb+Zn - 4-5%. Sz planes greenish white + talcose + white on fingers. |

| Code | From | | To | | Recov. | | No. | | Unit | | Description |
|------|------|----|-----|----|--------|----|-----|----|------|----|---|
| | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 34 | |
| | 126 | 3 | 144 | 0 | | | | 15 | 141 | 8 | +2 +9 |
| | | | | | | | | | | | Mod. hard to soft, PS ₂ laminated, strongly sericitized, weakly silicified, mod. chloritic, weakly carbonaceous, v. weakly pyritic schist. Core is grey to beige w/ grey/green laminations - 85-90% light beige/grey sericitized (laminations) 5-10% grey/green, chloritized carbonaceous laminations, 5-10% white qtz/feld laminations - 1-2% ≤ 0.5cm anhedral pink garnets. PS ₂ steep to // CA X - crenulated - local lithons. S ₂ plane white w/ greenish tinge - powdery & white on fingers. Core weakly breaks // PS ₂ - RQD - 80% Good recoveries. |
| | | | | | | | | | | | 144 EOH |

DIAMOND DRILL CORE LOG

Date: Jan 21st

Hole Number: 90F-12

Reference Fabric Orientation Diagram:

Project: Faro Fill in Drilling

Location: "S" Phase Faro Pit

Section
Claim: 1261000

Terr. Plane
Co-ords.: 8464.064 N

15260.120 E

Grid
Co-ords: _____

Elevation: 3590.753

All symmetry determinations looking

Total Depth: 177'

_____ with _____ dipping

Inclination: 45° Az 045°

_____ with dip azimuth _____.

Purpose: To better Delineate "E" phase ore

Reason hole
Terminated: Footwall drilled

Logged by: Peter Ledwidge Date(s) Logged: _____

Drilling
Contractor: Advanced Drilling

Hole
Cemented: No Steel down Hole: No

| Size | CORE From | To | Collar Cased and Capped: |
|------|-----------|------|--------------------------|
| Bwl | 0 | 5' | <u>No</u> |
| Bq | 5' | 177' | |

Assay Lab: Northern Analytical

Certificate No's: _____

Started: _____ Completed: _____

F-90-12

ASSAY LOG (SAMPLER'S COPY)

| CODE | FROM | | TO | | SAMPLE | | INTR. | | REC (m) | | UNIT | | DESCRIPTION |
|------|------|-------|----|-------|--------|------|-------|----|---------|----|------|-------|------------------|
| | 10 | 14 | 16 | 20 | 22 | 26 | 28 | 30 | 32 | 34 | 36 | 40 | |
| | | 170 | | 1115 | 497 | 1615 | | | | | | 2C181 | ± |
| | | 115 | | 160 | | 616 | | | | | | " | " |
| | | 160 | | 195 | | 617 | | | | | | 2E14 | ±1 |
| | | 195 | | 242 | | 618 | | | | | | 2C0 | ±4 |
| | | 242 | | 289 | | 619 | | | | | | " | " |
| | | 289 | | 336 | | 70 | | | | | | " | " |
| | | 336 | | 383 | | 71 | | | | | | " | " |
| | | 383 | | 430 | | 72 | | | | | | " | " |
| | | 430 | | 471 | | 73 | | | | | | 2C0 | ±8 |
| | | 471 | | 512 | | 74 | | | | | | " | " |
| | | 512 | | 554 | | 75 | | | | | | " | " |
| | | 554 | | 601 | | 76 | | | | | | 2C0 | ±8±9 (2F0) 97/3% |
| | | 601 | | 648 | | 77 | | | | | | " | " |
| | | 648 | | 695 | | 78 | | | | | | " | " |
| | | 695 | | 742 | | 79 | | | | | | " | " |
| | | 742 | | 789 | | 80 | | | | | | " | " |
| | | 789 | | 836 | | 81 | | | | | | " | " |
| | | 836 | | 884 | | 82 | | | | | | " | " |
| | | 884 | | 932 | | 83 | | | | | | " | " |
| | | 932 | | 980 | | 84 | | | | | | " | " |
| | | 980 | | 1028 | | 85 | | | | | | " | " |
| | | 1028 | | 1076 | | 86 | | | | | | " | " |
| | | 1076 | | 11124 | | 87 | | | | | | " | " |
| | | 11124 | | 11169 | | 88 | | | | | | 2C10 | ±9 |
| | | 11169 | | 11214 | | 89 | | | | | | " | " |
| | | 11214 | | 11259 | | 90 | | | | | | " | " |
| | | 11259 | | 11303 | | 91 | | | | | | " | " |
| | | 11303 | | 11347 | | 92 | | | | | | 2E1 | (2H4) 90/10% |
| | | 11347 | | 11390 | 497 | 93 | | | | | | " | " |

ASSAY LOG (SAMPLER'S COPY)

Date 29/01/90

Sampled by P. Leckwidge

| CODE | FROM | | | TO | | | SAMPLE | | | INTR. | | | REC (m) | | UNIT | | DESCRIPTION |
|------|-------|-------|----|----|-------|----|--------|----|----|-------|----|----|---------|-------|------|--|-------------|
| | 10 | 14 | 16 | 20 | 22 | 26 | 28 | 30 | 32 | 34 | 36 | 40 | 42 | | | | |
| 1 | 11390 | 11420 | | | 49794 | | | | | | | | | 2E711 | ± 9 | | |
| | | | | | | | | | | | | | | | | | |
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DDH F-9.0-1.2
 2 8

CURRAGH RESOURCES INC.
 Lithologic Log

Date: 26/01/90 Logged By: P. Hedwidge

| Core | From | | | | To | | | | Recov. | No. | Unit | Description | |
|------|------|----|----|----|----|----|-----|----|--------|-----|-------|---------------|---|
| | 1 | 10 | 14 | 18 | 20 | 22 | 24 | 26 | | | | | 28 |
| | | | 0 | | | | 7 | 0 | | | 101 | | Co: No return |
| | | | 7 | 0 | | | 16 | 0 | | | 102 | 21C181 | ±4 5YZG/31 (at 4/5 ft) |
| | | | | | | | | | | | | | Hard, non-foliated, pyritic, Mt bearing v. mainly sph/gr bearing quartzite. 60-70% f.g. Py, 25-30% white qtz blebs - 2-3% ≤ 1mm Mt. blebs. 4-5% diss. v.f.g. Sph/gr blebs. Core rubble. RQD - 0% 7-8.5 - Mt lost; 8.5-10.5 - 1.5ft lost; 10.5-18.5 - 0.5ft lost. Lower contact sharp + rubble. Est Pb+Zn ≤ 2% |
| | | | 16 | 0 | | | 19 | 5 | | | 103 | 21E14 | ±1 3/5/9 |
| | | | | | | | | | | | | | Hard pyritic, sph/gr bearing massive sulphides. 90-85% f.to med. g. Py 15-20% interstitial dark marrow sph±Gn. local areas have more (upto 30%) + less (4-5%) sph/gr. 3-5% qtz blebs. Core rubble - RQD - 0% - Good recovery. Pb+Zn - 8-10% |
| | | | 19 | 5 | | | 43 | 0 | 1010 | | 104 | 21E10 | ±4 5YZG/31 gradational contact RQD 45% |
| | | | 43 | 0 | | | 55 | 4 | 1010 | | 105 | 21G10 | ±8 5YMZG/31 gradational contact RQD 30% |
| | | | 55 | 4 | | | 111 | 24 | 1010 | | 21G10 | ±8±9 (2FO) 39 | 5YZG/31/9 RQD 60% |
| | | | | | | | | | | | | | trace magnetite - minor buckshot facies (3%) moderately broken - rubble zones in places. |

DDH F-9.0-1.2
2 8CURRAGH RESOURCES INC.
Lithologic LogPage 4Date: 29/01/90 Logged By: PL

| Code | From | To | Recov. | No. | Unit | Description |
|------|---------|---------|--------|-----|----------|--|
| 1 | 10 | 14 | 16 | 20 | 22 24 | 26 28 30 34 36 |
| | | | | | | 74.9-76.0 broken minor gauge. fault. ROD \emptyset |
| | | | | | | 89.0-89.8 broken core ROD \emptyset |
| | | | | | | gradational contact |
| | 11112 4 | 11310 3 | | | 21C10.1 | ± 9 31/6YC ROD 50% |
| | | | | | | 50-60% qtzite weak local banding |
| | | | | | | gradational contact. |
| | 11310 3 | 11319 0 | | | 21E1F.1 | (2H4) 90/10% 2Z/5Y:1/5YR or 2Z/9/5YR ROD 75% |
| | | | | | | gradational |
| | 11319 0 | 11412 0 | | | 2E17.1.1 | ± 9 2Z.6/6YR ROD 70% |
| | | | | | | sharp contact - broken |
| | 11412 0 | 11717 0 | | | 12D1.1.1 | 9 4ZY6/21g. ROD 10% |
| | | | | | | T01-151 = P52 FOLIATION 65°; 151-156.5 = ± 0 ° FOLD NAE; 156.5-177 = 70° |
| | | | | | | 157-162 - 4.7' LOST CORE |
| | | | | | | 162-164.5 1.5' LOST CORE |
| | | | | | | 164.5-168.0 heavy pyrite. |
| | | | | | | 172.0-177.0 2.5' LOST CORE |
| | | | | | | 177 E.O.H. |

DIAMOND DRILL CORE LOG

Date: Jan 22nd

Hole Number: 90F-13

Reference Fabric Orientation Diagram:

Project: Faro Fill in Drilling

Location: "S" Phase Faro Pit

Section: 1261000

Plane: 8464.064 N

Co-ords.: 15 260.120 E

Grid Co-ords: _____

Elevation: 3590.753

All symmetry determinations looking

Total Depth: 157'

_____ with _____ dipping

Inclination: 60° Az 225°

_____ with dip azimuth _____.

Purpose: To better Delineate "S" Phase ore

Reason hole Terminated: Footwall drilled

Logged by: Peter Ledwidge

Date(s) Logged: _____

Drilling Contractor: Advanced

Hole Cemented: No Steel down Hole: No

| Size | CORE From | To |
|------|-----------|------|
| BWL | 0 | 5' |
| BQ | 5 | 157' |

Collar Cased and Capped: No

Assay Lab: Northern Analytical

Certificate No's: _____

Started: _____ Completed: _____

F-90-13

DDH 9.0.F-1.3
2 8

CURRAGH RESOURCES INC.

Page _____ of _____

Logged by M.W.

ASSAY LOG (SAMPLER'S COPY)

Date Jan 29/90 Sampled by M.W.

| CODE | FROM | | TO | | SAMPLE | INTR. | | REC (m) | | UNIT | | DESCRIPTION |
|------|------|--------|----|--------|--------|-------|-----|---------|------|------|----|-------------|
| | 10 | 14 | 16 | 20 | | 22 | 26 | 28 | 30 | 32 | 34 | |
| | | 15.0 | | 19.9 | 49795 | | 4.9 | | 12.0 | | 2 | E1C |
| | | 19.9 | | 114.0 | 916 | | 4.9 | | 12.0 | | | " |
| | | 14.8 | | 119.7 | 917 | | 4.9 | | | | | " |
| | | 119.7 | | 214.6 | 918 | | 4.9 | | | | | " |
| | | 214.6 | | 219.5 | 919 | | 4.9 | | | | | " |
| | | 219.5 | | 314.0 | 800 | | 4.9 | | | | | " |
| | | 314.0 | | 318.6 | 801 | | 4.6 | | | | 2 | E1F |
| | | 318.6 | | 412.0 | 802 | | 4.2 | | | | | " |
| | | 412.0 | | 416.7 | 803 | | 3.9 | | | | | " |
| | | 416.7 | | 511.2 | 804 | | 4.5 | | | | 2 | E1 |
| | | 511.2 | | 515.7 | 805 | | 4.5 | | | | | " |
| | | 515.7 | | 610.2 | 806 | | 4.5 | | | | | " |
| | | 610.2 | | 614.8 | 807 | | 4.6 | | | | | " |
| | | 614.8 | | 619.9 | 808 | | 5.1 | | | | 2 | E1C |
| | | 619.9 | | 715.0 | 809 | | 5.1 | | | | 2 | E1C |
| | | 715.0 | | 719.3 | 810 | | 4.3 | | | | 2 | C0 |
| | | 719.3 | | 813.7 | 811 | | 4.4 | | | | 2 | C0 |
| | | 813.7 | | 816.8 | 812 | | 3.1 | | | | 2 | E1 |
| | | 816.8 | | 910 | | | 3.2 | | | | 2 | E1 |
| | | 910 | | 915.5 | 813 | | 5.5 | | | | 2 | E1F |
| | | 915.5 | | 919.9 | 814 | | 4.2 | | | | 2 | E1 ± 8 |
| | | 919.9 | | 1014.1 | 815 | | 4.1 | | | | 2 | E1 ± 8 |
| | | 1014.1 | | 1018.0 | 816 | | 3.9 | | | | 2 | E2 |
| | | 1018.0 | | 1113.0 | 817 | | 5.0 | | | | 2 | E1 |

} sample 812

DDH 90F-13
2 8

CURRAGH RESOURCES INC. Structural Log

Page 2 of _____

Date: Jan 29/90 Logged By: M. W.

| Code | From | | | | To | | | | Feature | S ₀ Dip Direct. | S ₁ Dip Direct. | S ₂ | | Description |
|------|------|----|----|-------|----|----|----|----|---------|-------------------------------|-------------------------------|----------------|----|---------------------------|
| | 10 | 14 | 16 | 20 | 22 | 24 | 26 | 28 | | | | 32 | 34 | |
| | | | | 11.45 | | | | | | | | 86° | | PS ₂ Foliation |
| | | | | 11.55 | | | | | | | | 61° | | " " |
| | | | | | | | | | | | | | | Crosses Fault zone |
| | | | | | | | | | | | | | | |
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CURRAGH RESOURCES INC.
Lithologic Log

| Case | From | To | Recov. | No. | Unit | Description | | | | | |
|------|------|------|--------|-----|------|-------------|----|----|----|----|---|
| 1 | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 34 | 38 |
| | 0.0 | 5.0 | 0.0 | 1 | | | | | | | No Recovery Casing |
| | 5.0 | 34.0 | 60% | 2 | 2EC | | | | | | 60% 2C 40% 2E From 5.0 to 25.0 Recovery Poor RQD 5% From 25.0 to 34' Recovery Excellent 90% RQD 25% Sulfide waste < 2% Pb+Zn broken ground |
| | 34.0 | 46.7 | 1.0 | 2 | 2EF | | | | | | Gradational upper & lower contact Grades between 10 to 15% Pb+Zn RQD 45% 36.3 to 41' friable massive sulfides |
| | 46.7 | 64.8 | 1.0 | 4 | 2EF | | | | | | → upper contact Gradational → blobs of qtz 75% Massive Py 25% qtz → Sulfide waste < 2% Pb+Zn → RQD 10 to 15% |
| | 64.8 | 75.0 | 1.0 | 5 | 2EC | | | | | | → 60% qtz 45% massive Py → upper & lower contacts sharp → bottom From 72.5 to FOI is a 2EF unit → Sulfide waste < 2% Pb+Zn → RQD 5 to 10% |
| | 75.0 | 83.7 | 1.0 | 16 | 2CO | | | | | | ±4 → Some remobilized Pb & Zn sulfides upper & lower contact sharp → Pb & Zn sulfides heal old fractures in this unit |
| | | | | | | | | | | | (continued) |

CURRAGH RESOURCES INC.
Lithologic Log

| Case | From | To | Recov. | No. | Unit | Description | | | | | | |
|------|-------|-------|--------|-----|------|--|----|----|----|----|----|--|
| 1 | 10 | 14 | 16 | 20 | 22 | 24 | 26 | 28 | 30 | 34 | 36 | |
| | 75.0 | 83.7 | 100 | 6 | 2E6 | (Continued from previous page) | | | | | | |
| | | | | | | → Low grade $\leq 4\%$ | | | | | | |
| | | | | | | → S ₂ foliations present but obscure | | | | | | |
| | | | | | | → RQD 50% | | | | | | |
| | 83.7 | 90.0 | 100 | 7 | 2E7 | → 85% massive Py 15% qtz | | | | | | |
| | | | | | | → Low grade $< 2\%$ Pb + Zn | | | | | | |
| | | | | | | → Upper contact irregular, bottom contact is sharp | | | | | | |
| | | | | | | → RQD 10% | | | | | | |
| | 90.0 | 95.5 | 100 | 8 | 2E8 | F1 → 90% massive sulfide 10% qtz | | | | | | |
| | | | | | | → High grade 15 to 20% | | | | | | |
| | | | | | | → lower contact grades into 2E0 sulfide waste | | | | | | |
| | | | | | | → RQD 35% | | | | | | |
| | 95.5 | 104.1 | 100 | 9 | 2E9 | ±8 → 25% massive Py 15% qtz | | | | | | |
| | | | | | | → Patches of Mt bearing massive Py. | | | | | | |
| | | | | | | → Sulfide waste $< 2\%$ Zn + Pb | | | | | | |
| | | | | | | → Upper & lower contacts gradational | | | | | | |
| | | | | | | → RQD 20% | | | | | | |
| | 104.1 | 108.0 | 100 | 10 | 2E10 | → Porphyroblastic Mt present in Py matrix | | | | | | |
| | | | | | | → 95% sulfides & oxides 5% qtz | | | | | | |
| | | | | | | → Upper & lower contact is gradational | | | | | | |
| | | | | | | → RQD 5-10% | | | | | | |

DDH 90.F-13
2 8CURRAGH RESOURCES INC.
Lithologic LogPage 5Date: Jan 29/90 Logged By: M. W.

| Core | From | To | Recov. | No. | Unit | Description | | | | | |
|------|---------|---------|--------|-----|-------|--|----|----|----|----|----|
| 1 | 10 | 14 | 16 | 20 | 22 | 24 | 26 | 28 | 30 | 34 | 36 |
| | 110.80 | 111.30 | 100 | 111 | 10.E1 | → 90% massive sulfides 10% Qtz → upper contact gradational, lower contact sharp and irregular → RQD 10% | | | | | |
| | 111.30 | 111.6.8 | 100 | 112 | 10.E9 | → Slightly Pyritic Note 15eV → Sharp bottom contact, Alteration masks any intrusive textures which was present → RQD 5-10% | | | | | |
| | 111.6.8 | 112.8.5 | 100 | 113 | 10.E9 | → Alteration not as pervasive as above more of a bleaching. → Phenocrysts of hbl, biotite & feldspar → bottom contact sharp → RQD 60% | | | | | |
| | 112.8.5 | 113.2.5 | 100 | 114 | 10.4 | → PS ₂ not that prominent → RQD 15%, Remobilized Pb & Zn near Dyke Contact | | | | | |
| | 113.2.5 | 114.2.5 | 100 | 115 | 10.4 | → ± 100 FAULT ZONE → brecciated, PS ₂ foliations obscure → RQD 10% | | | | | |
| | 114.2.5 | 115.2.5 | 100 | 116 | 10.4 | → ± Pb & Zn → Pb & Zn rich area near bottom of interval RQD 10% | | | | | |

DDH 90.F.-13

2

8

CURRAGH RESOURCES INC.
Lithologic Log

Page 6

Date: Jan 29/90 Logged By: M. W.

| Core | From | | To | | Recov. | | No. | | Unit | Description |
|------|-------|-------|-----|-----|--------|----|-----|----|------|---|
| 1 | 10 | 14 | 18 | 22 | 24 | 28 | 30 | 34 | 38 | |
| | 153.5 | 157.5 | 100 | 117 | 110.4 | | | | | - Fault Zone From 153.5 to 155.5, minor Pb & Zn - RQD 0% |
| | | | | | | | | | | EOH |
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DIAMOND DRILL CORE LOG

Date: Jan 23rd/89

Hole Number: 90F-14

Reference Fabric Orientation Diagram:

Project: Faro Fill in Drilling

Location: 5th Phase Faro Pit

Sections: 127+000

Terr. Plane Co-ords.: 2344.148 N

15323.817 E

Grid Co-ords: _____

Elevation: 3596.192

All symmetry determinations looking

Total Depth: 138'

_____ with _____ dipping

Inclination: 90°

_____ with dip azimuth _____.

Purpose: To better delineate "5" Phase One

Reason hole Terminated: Footwall Drilled

Logged by: Peter Ledwidge

Date(s) Logged: _____

Drilling Contractor: Advanced Drilling

Hole Cemented: No Steel down Hole: No

| Size | CORE From | To |
|------|-----------|------|
| Bull | 0 | 5 |
| BQ | 5 | 138' |

Collar Cased and Capped: NO

Assay Lab: Northern Analytical

Certificate No's: _____

Started: _____ Completed: _____

Fr 90-14

DDH 90F-14
2 8

CURRAGH RESOURCES INC.

Page 1 of 1

Logged by M.W.

ASSAY LOG (SAMPLER'S COPY)

Date Jan 30/90

Sampled by M.W.

| CODE | FROM | | TO | | SAMPLE | INTR. | | REC (m) | | UNIT | DESCRIPTION | | |
|------|------|-------|----|-------|--------|-------|-----|---------|-----|------|-------------|-------|------------|
| | 10 | 14 | 16 | 20 | | 22 | 26 | 28 | 30 | | | 32 | 34 |
| | | 4.0 | | 14.0 | 49818 | | 5.0 | | 1.5 | | 2E01 | | 40 |
| | | 14.0 | | 19.0 | 8119 | | 5.0 | | 4.0 | | " | | 46 |
| | | 19.0 | | 24.0 | 820 | | 5.0 | | | | " | | " |
| | | 24.0 | | 29.0 | 821 | | 5.0 | | | | " | | " |
| | | 29.0 | | 34.0 | 822 | | 5.0 | | | | " | | " |
| | | 34.0 | | 38.7 | 823 | | 4.7 | | | | " | | " |
| | | 38.7 | | 56.0 | N/S | | | | | | 110E9 | Waste | 0.00 grade |
| | | 56.0 | | 60.6 | 824 | | 4.6 | | | | 2EC1 | | |
| | | 60.6 | | 65.2 | 825 | | 4.6 | | | | " | | |
| | | 65.2 | | 69.8 | 826 | | 4.6 | | | | " | | |
| | | 69.8 | | 74.5 | 827 | | 4.7 | | | | " | | |
| | | 74.5 | | 80.5 | 828 | | 6.0 | | | | 2E811 | | |
| | | 80.5 | | 84.5 | 829 | | 4.0 | | | | 2F41 | | |
| | | 84.5 | | 88.6 | 830 | | 4.1 | | | | " | | |
| | | 88.6 | | 93.7 | 831 | | 5.1 | | | | 2EC1 | | |
| | | 93.7 | | 98.8 | 832 | | 5.1 | | | | " | | |
| | | 98.8 | | 103.9 | 833 | | 5.1 | | | | " | | |
| | | 103.9 | | 109 | 834 | | 5.1 | | | | " | | |
| | | 109 | | 113.7 | 835 | | 4.7 | | | | 2F41 | | |
| | | 113.7 | | 118.5 | 836 | | 4.8 | | | | " | | |
| | | 118.5 | | 122.5 | 837 | | 4.0 | | | | 2E11 | | |
| | | 122.5 | | 124.8 | 838 | | 2.3 | | | | 1D41 | | |
| | | 124.8 | | 127.2 | 839 | | 2.4 | | | | 2J11 | | |
| | | 127.2 | | 132.0 | 840 | | 4.8 | | | | 1D41 | | |

CURRAGH RESOURCES INC.
Lithologic Log

| Case | From | To | Recov. | No. | Unit | Description | | | | | |
|------|------|------|--------|-----|------|-------------|----|----|----|----|---|
| 1 | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 34 | 36 |
| | 0.0 | 9.0 | 0.0 | 1 | | | | | | | No Recovery Casing |
| | 9.0 | 38.7 | 1.00 | 2 | 2E10 | | | | | | ±4 → Small 2" to 4" ZF4 bands Found locally * → 9' to 16.5' poor recovery 33% 5' lost → 9' to 26' RQD 2% → 26' to 38.7' RQD 75% → Low grade ≤ 4% Pb+Zn → bottom contact sharp & Altered ±1 |
| | 38.7 | 56.0 | 1.00 | 3 | 10E9 | | | | | | → bottom contact chilled & fine grained, Sharp → Phenocrysts of hbl, biotite & feldspars → RQD 75% |
| | 56.0 | 74.5 | 1.00 | 4 | 2E11 | | | | | | → 75% massive Py & 25% qtzite → minor areas with 1" bands of ZF4, ≤ 2% Pb+Zn → RQD 70% → upper contact is enriched with base metals (57.5' to TOI) (Enrichment near Dyke) LOCAL GRADE EXTRAPOLATION?? → bottom contact recognized by Mt occurrence |
| | 74.5 | 80.5 | 1.00 | 5 | 2E8 | | | | | | → Porphyroblastic Mt in Py & qtz matrix → 90% 2E8 & 10% qtz → Sulfide waste < 2% Pb+Zn → RQD 5-10% → bottom contact marked by occurrence of base metals |

DDH 90.F-14
2 8CURRAGH RESOURCES INC.
Lithologic LogPage 4Date: Jan 29/90 Logged By: M. W.

| Core | From | To | Recov. | No. | Unit | Description | | | | | |
|------|---------|---------|--------|-----|-------|---|----|----|----|----|----|
| 1 | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 34 | 36 |
| | 810.5 | 88.6 | 100 | 16 | 2F411 | -> Sulfides 80% qtz 20% | | | | | |
| | | | | | | -> High grade 10-12% Pb+Zn | | | | | |
| | | | | | | -> RQD 25% | | | | | |
| | | | | | | -> Lower contact marked by the absence of base metals | | | | | |
| | 88.6 | 110.9.0 | 100 | 17 | 2EG | -> 80% 2C & 20% 2E0 ± 81 | | | | | |
| | | | | | | -> Sulfide waste < 3% Pb+Zn | | | | | |
| | | | | | | -> RQD 15% | | | | | |
| | | | | | | -> Lower & upper contacts marked by the occurrence of base metals | | | | | |
| | 109.0 | 111.8.5 | 100 | 18 | 2F411 | -> Minor 2H1 Located btwn 112.5' to 113.5' | | | | | |
| | | | | | | -> Silicification is local and minor | | | | | |
| | | | | | | -> High Grade 9-10% Pb+Zn | | | | | |
| | | | | | | -> RQD 10% | | | | | |
| | | | | | | -> Lower contact is gradational (Grades into waste) | | | | | |
| | 111.8.5 | 112.5 | 100 | 19 | 2E1 | ±4 -> 95% massive sulfides 5% qtz | | | | | |
| | | | | | | -> Minor 2F band the 121.5' to EOI. | | | | | |
| | | | | | | -> RQD 0% | | | | | |
| | | | | | | -> Lower contact sharp | | | | | |
| | | | | | | -> FAULT GOUGE? 119.5' | | | | | |

DDH 90.F-14
2 8CURRAGH RESOURCES INC.
Lithologic LogPage 5Date: Jan 29/90 Logged By: M.W.

| Core | From | To | Recov. | No. | Unit | Description | |
|------|--------|--------|--------|-----|----------------|--|--|
| 1 | 10 | 14 | 18 | 20 | 22 24 26 28 30 | 34 36 | |
| | 1,22.5 | 1,24.8 | 1,0,0 | 1,0 | 1,0,4,1 | → Minor blobs of remobilized PY → Lower contact is sharp → PS ₂ Foliations present → RQD 65% | |
| X | 1,24.8 | 1,27.2 | 1,0,0 | 1,1 | 2,3,1 | → Massive ZnS 35%, Py 25%, 40% qtz & acc. Mins → Lower contact sharp → Appears to have replaced 1041 unit in this area. → Relic PS ₂ foliations locally present. → RQD 70% → High Grade Pb+Zn 30% → Might only be a local enrichment, be careful when extrapolating Grade | |
| | 1,27.2 | 1,32.0 | 1,0,0 | 1,2 | 1,0,4,1 | → ±9 Minor Sphalerite along foliations → bottom contact sharp. → RQD < 5% | |
| | 1,32.0 | 1,35 | 1,0,0 | 1,3 | 1,0,4,1 | → Bleached → Sericitic → bottom contact sharp, top contact brecciated Possible FAULT → Possible Fault @ bottom contact as well → RQD 0% | |

DIAMOND DRILL CORE LOG

Date: Jan 24th/89

Hole Number: QOF - 15

Reference Fabric Orientation Diagram:

Project: Faro Fill in Drilling

Location: "S" Phase Faro Pit

Section Claim: 1241000

^{mine} Ferr. Plane Co-ords.: 84 33.178 N

14806.732 E

Grid Co-ords: _____

Elevation: 3551.200

All symmetry determinations looking

Total Depth: 177'

_____ with _____ dipping

Inclination: 90°

_____ with dip azimuth _____.

Purpose: To better delineate South Phase ore

Reason hole Terminated: Foot wall drilled

Logged by: Peter Ledwidge

Date(s) Logged: _____

Drilling Contractor: Advanced

Hole Cemented: No Steel down Hole: No

| Size | CORE From | To |
|------|-----------|-----|
| BOL | 0 | 5 |
| BQ | 5 | 177 |

Collar Cased and Capped: _____

Assay Lab: Northern Analytical

Certificate No's: _____

Started: _____ Completed: _____

F-90-15

DDH F-90-15
2 8

CURRAGH RESOURCES INC.

Page 1 of

Logged by P. Hedwidge

ASSAY LOG (SAMPLER'S COPY)

Date 30/01/90

Sampled by P. Hedwidge

| CODE | FROM | TO | SAMPLE | INTR. | REC (m) | UNIT | DESCRIPTION | | | | | |
|------|------|----|--------|-------|---------|------|-------------|----|----|-----|-----|--------------|
| 10 | 14 | 16 | 20 | 22 | 26 | 28 | 30 | 32 | 34 | 36 | 40 | 42 |
| | 11 | 5 | 116 | 5 | 49.8 | 41 | | | | 2H4 | 131 | ±1 |
| | 21 | 7 | 25 | 7 | 4 | 2 | | | | 2E4 | 71 | ±1 ± BXA |
| | 25 | 7 | 29 | 6 | 4 | 3 | | | | " | | |
| | 29 | 6 | 33 | 5 | 4 | 4 | | | | " | | |
| | 33 | 5 | 37 | 9 | 4 | 5 | | | | 2D4 | | BXA |
| | 37 | 9 | 42 | 3 | 4 | 6 | | | | " | | " |
| | 42 | 3 | 46 | 5 | 4 | 7 | | | | 2E1 | | (2H4) 75/25% |
| | 46 | 5 | 50 | 7 | 4 | 8 | | | | " | | " |
| | 50 | 7 | 55 | 7 | 4 | 9 | | | | 2E0 | | ±4 |
| | 55 | 7 | 60 | 7 | 5 | 0 | | | | " | | " |
| | 60 | 7 | 64 | 7 | 5 | 1 | | | | 2E4 | 171 | |
| | 64 | 7 | 68 | 7 | 5 | 2 | | | | " | | |
| | 68 | 7 | 72 | 7 | 5 | 3 | | | | " | | |
| | 72 | 7 | 77 | 0 | 5 | 4 | | | | 2E0 | | ±4 |
| | 77 | 0 | 81 | 3 | 5 | 5 | | | | " | | |
| | 81 | 3 | 85 | 5 | 5 | 6 | | | | " | | |
| | 85 | 5 | 89 | 5 | 5 | 7 | | | | 2E4 | | |
| | 89 | 5 | 93 | 5 | 5 | 8 | | | | " | | |
| | 93 | 5 | 97 | 6 | 5 | 9 | | | | | | |
| | 97 | 6 | 102 | 8 | 6 | 0 | | | | 2F0 | | |
| | 102 | 8 | 108 | 0 | 6 | 1 | | | | " | | |
| | 108 | 0 | 113 | 2 | 6 | 2 | | | | " | | |
| | 113 | 2 | 118 | 5 | 6 | 3 | | | | " | | |
| | 118 | 5 | 122 | 9 | 6 | 4 | | | | 2E4 | | (2F4) 80/20% |
| | 122 | 9 | 127 | 3 | 6 | 5 | | | | " | | |
| | 127 | 3 | 131 | 7 | 6 | 6 | | | | " | | |
| | 131 | 7 | 136 | 0 | 49.8 | 6 | 7 | | | " | | |

ASSAY LOG (SAMPLER'S COPY)

| CODE | FROM | | TO | | SAMPLE | | INTR. | | REC (m) | | UNIT | | DESCRIPTION | |
|------|------|-----|-----|-----|--------|----|-------|----|---------|----|------|----|-------------|--------------------------------|
| 1 | 10 | 14 | 16 | 20 | 22 | 26 | 28 | 30 | 32 | 34 | 36 | 40 | 42 | |
| | 113 | 160 | 114 | 172 | 49 | 81 | 6 | 18 | | | 2 | 1 | 4 | |
| | 114 | 172 | 114 | 176 | 4 | | | 19 | | | | | " | |
| | 114 | 176 | 115 | 176 | | | | 70 | | | | | " | |
| | 115 | 176 | 116 | 172 | | | | 71 | | | | | " | Core lost - 2 samples combined |
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| Code | From | To | Recov. | No. | Unit | Description | | | | | |
|------|------|------|--------|-----|---------|-------------|----|----|----|----|--|
| 1 | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 34 | 36 |
| | 0 | 5.0 | | 101 | | | | | | | 97 - Casing - No return |
| | 5.0 | 11.5 | | 102 | 1.02 | | | | | | ±4 2lgell Black to grey - soft RQD - 0% 5-9.0 - 3ft lost - 9.0-EOF - OK. Lower contact sharp but broken - PS2 - 85° |
| | 11.5 | 16.5 | | 103 | 2.114.3 | | | | | | ±1 2/5RZG7/a 50% P _o , 20% sph/Gn, 20% P _g , 10% qtz RQD - 30% Good recovery. Lower contact gradational over 30cm |
| | 16.5 | 19.0 | | 104 | 1.02 | | | | | | ±4 2lgell Same as unit 02 - PS2 70° RQD - 0% - Lower contact gradational |
| | 19.0 | 21.7 | | 105 | 1.011 | | | | | | ±9 21/eg18ZG RQD - 60% - Good recovery lower contact - sharp - gouged 21.3-EOF PS2 75° |
| | 21.7 | 33.5 | | 106 | 2.1E4.7 | | | | | | ±1 ±BXA 2/5/YGZ/31/X Banded quartzite over 5% - Gouged 25.6 - 27.7 Brecciated 29.0 - EOF |

| Code | From | To | Recov. | No. | Unit | Description |
|------|----------------------------------|------|--------|-----|------|--|
| | 10 14 18 20 22 24 26 28 30 34 38 | | | | | |
| | | | | | | RQD - 30% - 24-27.5 - 1 ft lost. |
| | | | | | | Lower contact sharp but Brecciated & broken |
| | 33.5 | 42.3 | | 107 | 2D4 | BXA 3 1/2 X QGZ |
| | | | | | | Brecciated 20% secondary gtz w Gn & Spn blebs. |
| | | | | | | RQD 60% small rubble zones - locally non-brecciated |
| | | | | | | PSZ 60% - Good recovery |
| | | | | | | Lower contact Lower contact sharp but irregular. |
| | 42.3 | 50.7 | | 108 | 2E1F | (2H4) 75/25% 3/5/YR <= |
| | | | | | | 46.9 - 48.5 - sph/gn bearing massive Pb |
| | | | | | | RQD - 70% - Lower contact gradational |
| | 50.7 | 60.7 | | 109 | 2E1G | +4 4/5 # < |
| | | | | | | RQD - 0% powdery rubble - Lower contact sharp but |
| | | | | | | rubbly. Good recovery. |
| | 60.7 | 72.7 | | 110 | 2E4F | 3/5/YR = |
| | | | | | | Aphanitic & dark grey/brown - difficult to assess Pb & Zn. |
| | | | | | | Brecciated locally. RQD 50% - Good recovery |
| | | | | | | Lower contact sharp but broken. |
| | | | | 111 | | |

DDH 9.0 - 1.5
2 8CURRAGH RESOURCES INC.
Lithologic LogPage 5Date: 30/01/90 Logged By: PL

| Core | From | To | Recov. | No. | Unit | Description | | | | | |
|------|------|----|--------|-----|------|-------------|----|--|----|----|----|
| 1 | 10 | 14 | 16 | 20 | 22 | 24 | 26 | 28 | 30 | 34 | 36 |
| | 7.2 | 7 | 8.5 | 5 | 11 | 2E01 | ±4 | 5/Y GZ | | | |
| | | | | | | | | RQD - 0% Powdery rubble lower contact sharp but rubbly. 77-840 - 2 ft lost Rest of recovery 0.15 | | | |
| | 8.5 | 5 | 9.7 | 6 | 12 | 2E41 | ±1 | 3/5 Yg | | | |
| | | | | | | | | Aphanitic w 5-10% Qtz blebs, 5-10% euhedral Py. Dark grey + brassy - Difficult to assess Pb/Zn content 92-92.5 - gouged + powdery. RQD 50% - Good recovery. lower contact gradational | | | |
| | 9.7 | 6 | 11.1 | 8 | 13 | 2E01 | | 2/9 | | | |
| | | | | | | | | RQD 0% Rubbly + friable throughout - lower contact gradational - Good recovery. | | | |
| | 11.1 | 8 | 13.6 | 0 | 14 | 2E41 | | (2F4) 80/20% 3/5:1 | | | |
| | | | | | | | | 80% high grade buckshot - Rest is aphanitic to fine Py w Sph/Gn RQD - 30% 118.5 - 124 - 1ft lost Rest of recovery good. lower contact sharp + gouged | | | |
| | 13.6 | 0 | 16.2 | 0 | 15 | 2H41 | | (2J9) (2D4) 80/10/10% 2/12/5 RYK | | | |
| | | | | | | | | Box dropped + mixed - local massive Sph ± Gn lenses 5% (Py bleb) - 80% is reddish Sph ± Gn bearing massive Pb local 2E4 lenses RQD - 70% - local Sph/Gn Py bearing quartz lenses. lower contact sharp. | | | |
| | | | | | | | | Some core lost (about 2ft) | | | |

DDH F-9.0-1.5
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Page 6

Date: 30/01/90 Logged By: PL

| Core | From | | To | | Recov. | | | | No. | | | | Unit | Description |
|------|------|----|------|----|--------|----|----|----|-----|----|----|----|------|--|
| | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | | |
| | 1.62 | 0 | 1.72 | | | | | | | | | | 1D4 | 22/eg RQD - 80% PS2 crenulated. PS2 - 65-0 folded. lower contact gradational - Good recovery |
| | 1.72 | 0 | 1.77 | 0 | | | | | | | | | 1E4 | 22/e light grey/green - 3-5% garnets PS3 crenulated PS2 - 11 to CAX RQD 90%. Good recovery |
| | | | | | | | | | | | | | | 177 EOH |

DIAMOND DRILL CORE LOG

Date: _____

Hole Number: 90F-16

Reference Fabric Orientation Diagram:

Project: Faro Fill in Drilling

Location: "E" Phase Faro P.t

Section Claim: 123+000

~~mine~~
Ferr. Plane Co-ords.: 90 23.048 N

15 290.108 E

Grid Co-ords: _____

Elevation: 3752.479

All symmetry determinations looking

Total Depth: 172'

_____ with _____ dipping

Inclination: 90°

_____ with dip azimuth _____.

Purpose: To better delineate "E" Phase ore

Reason hole Terminated: Drill torque almost reaching breaking Pt. of rods (Bad Ground)

Logged by: Peter Ledwidge

Date(s) Logged: _____

Drilling Contractor: Advanced Drilling

Hole Cemented: No Steel down Hole: No

| Size | CORE From | To | Collar Cased and Capped: |
|------|-----------|------|--------------------------|
| BW1 | 0 | 15 | <u>No</u> |
| BQ | 15 | 172' | |

Assay Lab: Northern Analytical

Certificate No's: _____

Started: _____ Completed: _____

F-90-16

DDH F-9.0-1.6_{2 8}

CURRAGH RESOURCES INC.

Page 1 of 1

Logged by Rhodwidge

ASSAY LOG (SAMPLER'S COPY)

Date 05/02/90 Sampled by Rhodwidge

| CODE | FROM | | | | TO | | | | SAMPLE | | | | INTR. | | REC (m) | | UNIT | | | | DESCRIPTION |
|------|------|----|-----|----|-----|-----|----|----|--------|----|----|----|-------|--|---------|--|------|-----|--|--|-------------|
| | 10 | 14 | 16 | 20 | 22 | 26 | 28 | 30 | 32 | 34 | 36 | 40 | 42 | | | | | | | | |
| | 113 | 26 | 113 | 83 | 499 | 311 | | | | | | | | | | | | 200 | | | |
| | 113 | 83 | 114 | 40 | 499 | 32 | | | | | | | | | | | | " | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |

| Core | From | | To | | Recov. | | No. | Unit | Description | |
|------|------|-----|----|------|--------|----|-----|--------|---|----|
| | 10 | 14 | 18 | 20 | 22 | 24 | | | | 26 |
| | | 0 | | 50 | | | 01 | | Casing - No return | |
| | | 50 | | 290 | | | 02 | 10101 | Rubby & v. strongly oxidized RQD 0% 5.0-9.0-3.5ft lost; 9.0-12.0-1.5ft lost; 12.0-15.0-3ft lost; 15.0-20.0-4ft lost; 20.0-24.0-3ft lost; 24.0-EUE-3ft lost PS2 - 70°CAX; | |
| | | 290 | | 480 | | | 03 | 101E32 | (2A0 BXA) 50/50% Fault zone Gouged throughout interval 29.0-34.0-4.5ft lost; 34.0-39.0-3ft lost; Rest of recovery OK. lower contact sharp but irregular - marked by absence of 10E32. | |
| | | 480 | | 733 | | | 04 | 11001 | BXA Fault zone Brecciated & gouged over entire interval. RQD-5% Good recovery - lower contact gradational | |
| | | 733 | | 1090 | | | 05 | 11014 | Lighter beige than previous unit. PS2 SS-80 - + wavy. Lower contact sharp - PS2 is 11 CAX lost 2ft to contact. Good recovery. Core result - Gouged at 78.4-80.0, 83.5-84.0. RQD-20% Local glz veins w pink andalusites & green chlorite blobs | |

| Core | From | | To | | Recov. | No. | Unit | Description | | |
|------|-------|----|-------|----|--------|-----|--------|--|----|----|
| | 10 | 14 | 18 | 20 | | | | | 22 | 24 |
| | 11010 | 7 | 11326 | 6 | | 016 | 110E32 | (100±4 BXA) 60/40% | | |
| | | | | | | | | TOI - 119.0 - 70% bleached diorite w 30% 100±4 breccia fragments - 119.0 - EOI - 60% 100±4 breccia fragments in bleached diorite. (fragments up to 1m) local P ₂ rich fragment from next unit Rock soft & weathered. lower contact gradational & brecciated. RQD - 60% | | |
| | 11326 | | 1144 | | | 017 | 2101 | BXA (100±4 BXA) 90/10% | | |
| | | | | | | | | 60% Qtz, 30% P ₂ & P ₃ brecciated fragments, 10% v.f.g. sph/bn. local areas w higher P ₂ /P ₃ . 34-35.5 - 100 BXA mixed w quartzite. lower contact sharp but gorged on next unit. Good recovery. Est P ₂ ? w 4-5% RQD - 60% | | |
| | 11440 | | 11720 | | | 018 | 1104 | BXA (2104) 98/2% | | |
| | | | | | | | | Gorged TOI - 144.3, 148.1/148.5, 152-152.5, 164-165.0; Good recovery. local bands & stringers of sph/bn rich massive sulphides. Entire interval strongly brecciated. RQD - 50% | | |
| | | | | | | | | 172 EOH | | |

DIAMOND DRILL CORE LOG

Date: _____

F-90-17

Hole Number: 90F-17

Reference Fabric Orientation Diagram:

Project: "E" Phase Fill in drilling

Location: "E" Phase Faro Pit

Section/
claim: 124+000

Mine
Terr. Plane
Co-ords.: 8947.762 N

15379.122 E

Grid
Co-ords: _____

Elevation: 3752.932

All symmetry determinations looking

Total Depth: 324'

_____ with _____ dipping

Inclination: 65° @ Az 225°

_____ with dip azimuth _____.

Purpose: To better delineate "E" phase ore

Reason hole
Terminated: _____

Logged by: Peter Ledwidge

Date(s) Logged: _____

Drilling
Contractor: Advanced Drilling

Hole
Cemented: No Steel
down Hole: No

| Size | CORE From | To | Collar Cased and Capped: <u>No</u> |
|------|--------------|------|---------------------------------------|
| BWL | 0 | 40 | |
| BQ | 40 | 324' | |

Assay Lab: Northern Analytical

Certificate No's: _____

Started: _____ Completed: _____

DDH F-9.0-1.7
2 8

CURRAGH RESOURCES INC.

Page 1 of 1

Logged by Rhedwidge

ASSAY LOG (SAMPLER'S COPY)

Date 31/01/90 Sampled by Rhedwidge

| CODE | FROM | | TO | | SAMPLE | | INTR. | | REC (m) | | UNIT | | DESCRIPTION |
|------|------|----|-----|----|--------|-----|-------|----|---------|----|-------|----|-----------------------|
| | 10 | 14 | 16 | 20 | 22 | 26 | 28 | 30 | 32 | 34 | 36 | 40 | |
| | 246 | 0 | 249 | 9 | 49 | 872 | | | | | 2C131 | | ±4, ±8 |
| | 249 | 9 | 253 | 8 | | 73 | | | | | " | | " |
| | 253 | 8 | 258 | 8 | | 74 | | | | | " | | " |
| | 256 | 8 | 259 | 8 | | 75 | | | | | 2E181 | | ±4, ±1 |
| | 259 | 8 | 264 | 0 | | 76 | | | | | 2E111 | | ±4 |
| | 264 | 0 | 268 | 2 | | 77 | | | | | " | | " |
| | 268 | 2 | 272 | 5 | | 78 | | | | | " | | " |
| | 272 | 5 | 277 | 1 | | 79 | | | | | 2C81 | | ±4, ±9 |
| | 277 | 1 | 281 | 7 | | 80 | | | | | " | | " |
| | 281 | 7 | 286 | 3 | | 81 | | | | | " | | " |
| | 286 | 3 | 291 | 0 | | 82 | | | | | " | | " |
| | 291 | 0 | 295 | 8 | | 83 | | | | | 2F11 | | |
| | 295 | 8 | 299 | 2 | | 84 | | | | | 2D31 | | ±BXA (2F4) 90/10% |
| | 299 | 2 | 302 | 5 | | 85 | | | | | " | | " |
| | 310 | 2 | 313 | 0 | | 86 | | | | | 2E101 | | (240±3) 109 60/30/10% |

| Core | From | | To | | Recov. | No. | Unit | Description | | |
|------|------|-------|----|-------|--------|-----|------|---|----|----|
| | 10 | 14 | 18 | 20 | | | | | 22 | 24 |
| | | 00 | | 37.0 | | 101 | | Casing - No return | | |
| | | | | | | | | Breccia Cap | | |
| | | 37.0 | | 19.89 | | 102 | PS2 | BXA ± 8 minor Calc Silicate | | |
| | | | | | | | | Strongly brecciated & folded. Brittle & ductile deformations PS2 ranges from steep to 11 CAX - changes on dm scale - locally is due to breccia fragments. Core mottled brown, & black w local minor green blebs - 5% at blebs & veins. | | |
| | | | | | | | | 37-39.0 - 1.5ft lost - RQD - 0% ; 39-44 - Recov. O.K. RQD - 40% ; 44-56.5 - Recov. O.K. RQD - 50% 56.5-104.0 - Recov. O.K. RQD - 60% ; 101-101.4 - Gouged 104-109.5 - Rubble - RQD - 50% - local ≤ 0.5ft gouge - probable fault zone; 109.5-143.5 - RQD - 40% good recovery. Weak gouge at 118.7-119, 139.5-140.0 ; 143.5-148.2 - RQD - 0% , 40% gouge - probable fault zone - good recovery. 148.2 - EOT - RQD - 70% - good recovery. Gouged at 154.0-154.2, 164.8-165.0, 174.0-174.1, 176.2-177.1 Lower contact sharp but irregular. | | |
| | | 19.89 | | 24.09 | | 103 | PS2 | ± 9 | | |
| | | | | | | | | Medium grey to brown - 5-10% ≤ 0.5cm bio bioholes on aphanitic to fig. matrix. TOT - 235.7 RQD - 80% - good recovery. 203.1-203.5 - Gouged. 235.7 - EOH - Altered to white to locally light green (saussuritization of plug?) RQD - 30% | | |

DDH F-90-17

2 8

CURRAGH RESOURCES INC.

Lithologic Log

Page 4Date: 3/01/90 Logged By: PL

| Code | From | To | Recov. | No. | Unit | Description | | | | | |
|------|-------|-------|--------|-----|--------|--------------|----|----|----|----|--|
| 1 | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 34 | 36 |
| | | | | | | | | | | | Good recovery. Lower contact sharp but slightly gouged over 2 inches. |
| | 2409 | 24160 | | 104 | 1C24 | BxA (10E279) | | | | | 95/5% |
| | | | | | | | | | | | Same unit as unit 2 but has 50% strongly sericitized light beige patches. RQD - 60% Good recovery. 241.5-241.8 - lense of same altered diorite as lower contact of unit 03. Sharp contacts w/ host rock. Lower contact gouged (245.5-246) & sharp. |
| | 24160 | 24583 | | 105 | 21C131 | ±4 ±8 | | | | | 30-40% Qtz, 60-70% Py - 2-3% PltzN lower contact gradational - (less siliceous & appearance of Mt) - No foliation. RQD - 80% Good-recovery. |
| | 24568 | 24598 | | 106 | 21E181 | ±4 ±1 | | | | | 90-95% Py, 5-8% Sph/ln blchs, 3-5% Mt blchs. TOI - 2 SB.5 - 10-15% Qtz blchs - RQD - 80% Good recovery. Lower contact sharp - marked by disappearance of Mt. |
| | 24598 | 24725 | | 107 | 21E111 | ±4 | | | | | 80-85% Py, 10-15% Qtz blchs (primary & secondary) over 30% of core. 4-5% v. fine interstitial Sph/ln. Lower contact gradational - Marked by increase in Qtz & appearance of Mt. RQD 50% - Good recovery. |

| Core No. | From | | To | | Recov. | No. | Unit | Description | |
|-------------|------|----|-----|----|--------|-----|-------|---|----|
| | 10 | 14 | 18 | 22 | | | | | 24 |
| | 277 | 25 | 291 | 10 | | 08 | 2F18 | ± 4 ± 9 25-30% Qtz, 60-65% Py, 3-5% Mt, 1% Cav blebs, 3-5% Sph/Gr stringers + blebs - Est Pb + Z - 2-3% TOI - 230.5 - RQD 80% 230.5 - EOI RQD - 10% lower contact gradational - Sph/Gr %ase increases slightly + marked by disappearance of Mt, but gouged at 290.9 - 291. Good recovery. No foliation | |
| | 291 | 10 | 295 | 8 | | 09 | 2F11 | 70-25% Py, 15% Qtz, 10-12% Sph/Gr - RQD - 50% - Good recovery. Lower contact sharp but brecciated - marked by SiO2 increase. | |
| | 295 | 10 | 302 | 5 | | 10 | 2D13 | ± BXA (2F4) 90/10% 60% Py, 30% Qtz, 10% Sph/Gr in blebs + stringers RQD - 70% Good recovery. Lower contact gradational/ as core gets brecciated from 302 - 302.5. No foliation | |
| | 302 | 5 | 310 | 2 | | 11 | 1C142 | BXA ± 9 Fault zone Gouged + brecciated throughout - local Sph/Gr + Py rich fragments. Lower contact sharp + gouged | |
| | 310 | 2 | 319 | 0 | | 12 | 1D9 | ± 1 (2H0 ± 3) (2E0) 75/20/5% Fault zone TOI - 310.7 - 2H0 ± 3 probably a rock that got trapped in the fault. 310.7 - 313.0 strongly to weakly gouged - carbonaceous black | |

CURRAGH RESOURCES INC.
 Lithologic Log

| Code | From | | To | | Recov. | | No. | | Unit | | Description | | |
|------|------|----|----|----|--------|----|-----|----|------|----|-------------|----|---|
| | 1 | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | | 34 | 36 |
| | | | | | | | | | | | | | schist mixed // CAX w pyrotite rich dark grey massive sulphides which is strongly brecciated. 313'0 - EOI - strongly gouged black weathly silicified + weakly sph/bn+py bearing black carbonaceous schist. lower contact sharp but gouged. Good recovery! |
| | | | | | | | | | | | | | 3-5% pink garnets - well P ₅₂ laminated at 55° CAX - strongly silicified 50% Py+sph // CAX. Non-cruciated. RQD = 90% good recovery. |
| | | | | | | | | | | | | | 324 EOH |

DIAMOND DRILL CORE LOG

Date: _____

Hole Number: 90F-18

Reference Fabric Orientation Diagram:

Project: Faro Fill in Drilling

Location: "E" Phase Faro Pit

Section Claim: 125+000

Mine Terr. Plane Co-ords.: 8771.463 N

15 370.931 E

Grid Co-ords: _____

Elevation: 3750.710

All symmetry determinations looking

Total Depth: 367'

_____ with _____ dipping

Inclination: 60° Az 225°

_____ with dip azimuth _____.

Purpose: _____

Reason hole Terminated: _____

Logged by: _____

Date(s) Logged: _____

Drilling Contractor: _____

Hole Cemented: Steel down Hole: _____

| Size | CORE From | To | Collar Cased and Capped: _____ |
|-------|-----------|-------|--------------------------------|
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |

Assay Lab: _____

Certificate No's: _____

Started: _____ Completed: _____

F-90-18

F-90-18
 DDH F-90-18
 2 8

CURRAGH RESOURCES INC.

Page 1 of

Logged by P.L.

ASSAY LOG (SAMPLER'S COPY) Date FEB 1/90 Sampled by P.L. + D.T.

| CODE | FROM | | TO | | SAMPLE | | INTR. | | REC (m) | | UNIT | | DESCRIPTION |
|------|-------|----|-------|----|----------|----|-------|----|---------|----|---------|----|-------------|
| | 10 | 14 | 16 | 20 | 22 | 26 | 28 | 30 | 32 | 34 | 36 | 40 | |
| | 12145 | 7 | 12149 | 0 | 49181817 | | | | | | 21E101 | | |
| | 12149 | 0 | 12153 | 8 | 49181818 | | | | | | 21C131 | | |
| | | | 12158 | 0 | 49181819 | | | | | | | | |
| | | | 12163 | 4 | 1910 | | | | | | | | |
| | | | 12168 | 2 | 1911 | | | | | | | | |
| | | | 12173 | 0 | 1912 | | | | | | | | |
| | | | 12177 | 8 | 1913 | | | | | | | | |
| | 12177 | 8 | 12182 | 4 | 1914 | | | | | | 21C101 | | |
| | | | 12187 | 1 | 1915 | | | | | | | | |
| | 12187 | 1 | 12192 | 5 | 1916 | | | | | | 21E1181 | | |
| | 12192 | 5 | 12195 | 8 | 1917 | | | | | | 21C101 | | |
| | 12195 | 8 | 13101 | 0 | 1918 | | | | | | 21C131 | | |
| | 13101 | 0 | 13106 | 2 | 49181919 | | | | | | | | |
| | 13106 | 2 | 13111 | 4 | 49191010 | | | | | | | | |
| | 13111 | 4 | 13116 | 7 | 49191011 | | | | | | | | |
| | 13116 | 7 | 13122 | 1 | 49191012 | | | | | | 21E101 | | ±1 |
| | 13122 | 1 | 13127 | 2 | 1013 | | | | | | 21E111 | | |
| | | | 13132 | 3 | 1014 | | | | | | | | |
| | | | 13137 | 5 | 1015 | | | | | | | | |
| | 13137 | 5 | 13140 | 3 | 1016 | | | | | | 21F101 | | |
| | 13140 | 3 | 13145 | 4 | 1017 | | | | | | 21D101 | | ±5 |
| | 13145 | 4 | 13150 | 5 | 49191018 | | | | | | | | |
| | | | | | | | | | | | | | EOH 367 FT. |

DDH F-9.0-1.8
2 8CURRAGH RESOURCES INC.
Lithologic LogPage 3Date: 31/01/90 Logged By: P. Hedwidge

| Code | From | | To | | Recov. | No. | Unit | Description | |
|------|------|----|----|----|--------|-----|------|--|----|
| | 10 | 14 | 18 | 22 | | | | | 24 |
| | | 0 | | 6 | 5? | | 101 | Casing - No return | |
| | | 6 | 5? | 4 | 8 | 9 | 102 | ± BXA | |
| | | | | | | | | Brecciated over 50% + folded throughout - PS2 change frequently from steep to // CAX - Dark brown + black w greenish white (sarsenitized?) qtz fill. bands. 7.5-11 - 145A lost; Rest of recovery good. TOI - 7.5 RQD - 0% - rubble; 7.5 - 20.5 - RQD - 20%; 20.5 - 41.0 - RQD - 70%; 41.5 - EOI RQD - 5% Lower contact gradational | |
| | | 4 | 8 | 9 | | | 103 | 11D2 | |
| | | | | | | | | PS2 30-500 CAX - RQD 40% - 53.5-54 - Rubbly + gouged. Lower contact gradational. Good recovery | |
| | | 5 | 4 | 5 | | | 104 | 11D10 ±2 ± BXA | |
| | | | | | | | | TOT - 73.0 - Brecciated. TOI - 62.5 - RQD - 70% 62.5 - 73.0 - RQD - 0% - Gouged over 90% . 73 - EOI - RQD 50% - Gouged from 84.0 - 84.5. TOI - 73. PS2 steep to // CAX folded. 73 - EOI - PS2 - 35° w local folds // CAX. lower contact sharp but irregular. | |

DDH F-90-1.8
2 8CURRAGH RESOURCES INC.
Lithologic LogPage 4Date: 01/02/90 Logged By: P.L.C.

| Case | From | | To | | Recov. | No. | Unit | Description | | |
|------|-------|----|-------|----|--------|-----|-------|--|----|----|
| | 10 | 14 | 18 | 20 | | | | | 22 | 24 |
| | 87.1 | 1 | 94.5 | 1 | | 105 | 10E27 | 87.1-94.5 - RQD 5% - mostly rubble 94.5 - EOI - gouged - RQD - 80% but rock is compact mud. however contact sharp but broken. Good recovery. | | |
| | 98.1 | 1 | 117.0 | 9 | | 106 | 1D01 | BXA 22% bmx folded + brecciated PS ₂ changes frequently from steep to // CAx. Mottled grey/white/brown ± black. TOI - 133.5 - RQD - 70% Good recovery. Gouge at 112.5-112.8, 118.0-118.5. 133.5-134.5 - RQD - 0% rubble gouge. 134.5 - EOI - RQD - 80% - Gouge at 149.0-149.5, 159.7-160.5. however contact sharp. | | |
| | 170.1 | 1 | 199.3 | 3 | 1010 | 107 | 10E27 | Minor weakly unaltered - greenish dark to med grey. TOI - 175.5 - RQD 0% ; 175.5 - RQD - 60% Gouged at 182.0-182.2, 189.7-190.2 ; Good recovery throughout | | |
| | 199.3 | 3 | 211.4 | 0 | | 108 | 10E91 | altered dyle brecciated in places - partly siliceous 10% host rock inclusions RQD 80% | | |
| | 211.4 | 0 | 220 | | | 109 | 1D01 | bx a brecciated host rock - 217.0 1" gouge 217.0 - 219.1 pyroclastic quartzite (30% po; 40% qz; 30% pf) | | |

| Code | From | To | Recov. | No. | Unit | Description | | | | | |
|------|---------|---------|--------|-------|------|------------------|----|----|----|----|--|
| 1 | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 34 | 36 |
| | | | | | | | | | | | 217.3 - 217.7 gauge/broken |
| | | | | | | | | | | | 218.9 - 219.0 |
| | | | | | | | | | | | lower contact <u>Disreg + sharp</u> |
| | 12120 | 12141.5 | 7 | 11010 | 110 | 110E1 | | | | | altered dyke - dioritic - saussuritized |
| | | | | | | | | | | | TOT - 224.0 - RQD - 80% ; 224.0 - 226.5 - Fault gouge ; |
| | | | | | | | | | | | 226.5 - 235 - RQD - 80% ; 235 - EOI - RQD 95% |
| | | | | | | | | | | | 244.5 - EOI - Brecciated host rock (100) + gouge zones - lower contact sharp |
| | 12141.5 | 12149.0 | 0 | 11010 | 111 | 215101 | | | | | 95% f.g. Py, 5-8% sph/bn - Est Pb-Zn 2-3% |
| | | | | | | | | | | | 2-3% qtz stringers - 248.2 - 249.0 - Gouged. Contact sharp. RQD - 80% |
| | 12149.0 | 12177.8 | 8 | 11010 | 112 | 21C31 | | | | | 70% Py, 25% qtz, 5% Pb+Zn - No foliation <u>local rubble</u> |
| | | | | | | | | | | | contact gradational. RQD 40% |
| | 12177.8 | 12187.1 | 1 | 11010 | 113 | 21C19 | | | | | 65% qtz 5% Pb/Zn 30% py. RQD 30% |
| | | | | | | | | | | | contact gradational |
| | 12187.1 | 12192.5 | 5 | 11010 | 114 | 21C18 | | | | | 80% py 15% qtz 2% mag. RQD 15% |
| | | | | | | | | | | | contact gradational |
| | 12192.5 | 12191.5 | 8 | 11010 | 115 | 21C101 | | | | | 60% qtz ; 35% py. 4% PbZn tr cpy. RQD 40% |
| | | | | | | | | | | | contact gradational. |
| | 12191.5 | 13116.7 | 7 | 11010 | 116 | 21C31 | | | | | tr cpy. RQD 15% |
| | | | | | | | | | | | contact gradational |
| | 13116.7 | 13121.1 | 1 | 11010 | 117 | 21B19 | | | | | 90% py. some PbZn (6%) <u>small bucket wt</u> RQD 80% |

CURRAGH RESOURCES INC.
Lithologic Log

| Code | From | | | To | | | Recov. | | | No. | | | Unit | Description |
|------|------|--------|----|----|--------|----|--------|----|----|-----|----|----|--------------------------|--|
| | 1 | 10 | 14 | 16 | 20 | 22 | 24 | 26 | 28 | 30 | 34 | 36 | | |
| | | | | | | | | | | | | | | gradational contact. |
| | | 131212 | 1 | | 131317 | 5 | | | | 118 | | | 21E11 | py 80% ; some buckshot ; 15% Zn ; 3-4% Pb/Zn RQD 60% lt qtz blebs. |
| | | | | | | | | | | | | | | contact gradational. |
| | | 131317 | 5 | | 131403 | 3 | | | | | | | 21F10 | buckshot. py 75% ; 25% Pb/Zn/S (12% Pb/Zn) RQD 80% |
| | | | | | | | | | | | | | | contact sharp 15° |
| | | 131403 | 3 | | 131510 | 5 | | | | | | | 21D19 | IS 10% ZFO - 30% Mn/Pyrite 40% ; 9% 45% ; 15% Pb/Zn sharp (with S2) 44° RQD 55% |
| | | | | | | | | | | | | | | last 3' brecciated ± graphite fragments. |
| | | 131510 | 5 | | 131614 | 0 | | | | | | | 2C0 101119 | sheared sericite schist + garnet nodules. 5% qtz RQD 0 357-364 gouge - Fault. Lower contact brecciated. |
| | | | | | | | | | | | | | | Garnet-bearing musc. weakly carbonaceous schist - Fault zone |
| | | 131610 | 0 | | 131614 | 0 | | | | | | | 1K14 | carbonaceous schist - fault gouge v. hard. |
| | | 131614 | 0 | | 131617 | 0 | | | | | | | 1D12 | RQD 0 |
| | | | | | | | | | | | | | | F.O.H. |
| | | | | | 131617 | 0 | | | | | | | | |

DIAMOND DRILL CORE LOG

Date: _____

Hole Number: 90F-19

Reference Fabric Orientation Diagram:

Project: Faro Fill in Drilling

Location: "E" Phase Faro Pit

Section: 126+000

Mine
Tern. Plane
Co-ords.: 8701.981 N

15 424.430 E

Grid
Co-ords: _____

Elevation: 3751.517

All symmetry determinations looking

Total Depth: 313'

_____ with _____ dipping

Inclination: 70° Az 225°

_____ with dip azimuth _____.

Purpose: _____

Reason hole
Terminated: _____

Logged by: _____

Date(s) Logged: _____

Drilling
Contractor: _____

Hole
Cemented: Steel
down Hole: _____

| Size | CORE From | To | Collar Cased and Capped: _____ |
|-------|--------------|-------|-----------------------------------|
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |

Assay Lab: _____

Certificate No's: _____

Started: _____ Completed: _____

F-90-19

ASSAY LOG (SAMPLER'S COPY)

| CODE | FROM | | TO | | SAMPLE | | INTR. | | REC (m) | | UNIT | | DESCRIPTION |
|------|------|----|-----|----|--------|-----|-------|----|---------|----|-------|----|--|
| | 10 | 14 | 16 | 20 | 22 | 26 | 28 | 30 | 32 | 34 | 36 | 40 | |
| | 213 | 4 | 215 | 9 | 49 | 910 | 9 | | | | 2C17 | 91 | |
| | 215 | 9 | 221 | 3 | | 110 | | | | | 2E1 | | |
| | 221 | 3 | 226 | 8 | | 11 | | | | | 2E1 | | |
| | 226 | 8 | 232 | 3 | | 12 | | | | | 2C08 | | ± 9 |
| | 232 | 3 | 237 | 7 | | 13 | | | | | " | | |
| | 237 | 7 | 242 | 8 | | 14 | | | | | 2E18 | | = |
| | 242 | 8 | 247 | 9 | | 15 | | | | | " | | |
| | 247 | 9 | 253 | 0 | | 16 | | | | | " | | |
| | 253 | 0 | 258 | 0 | | 17 | | | | | " | | |
| | 258 | 0 | 262 | 2 | | 18 | | | | | 200 | | |
| | 262 | 2 | 266 | 4 | | 19 | | | | | " | | |
| | 266 | 4 | 270 | 7 | | 20 | | | | | " | | |
| | 270 | 7 | 273 | 6 | | 21 | | | | | 2A44 | | |
| | 273 | 6 | 277 | 1 | | 22 | | | | | 2A44 | | |
| | 277 | 1 | 282 | 2 | | 23 | | | | | 2A44 | | bleached |
| | 282 | 2 | 287 | 3 | | 24 | | | | | " | | |
| | 287 | 3 | 292 | 4 | | 25 | | | | | " | | |
| | 292 | 4 | 297 | 5 | | 26 | | | | | " | | |
| | 297 | 5 | 302 | 6 | | 27 | | | | | " | | |
| | 302 | 6 | 307 | 8 | | 28 | | | | | " | | |
| | 307 | 8 | 308 | 7 | | 29 | | | | | 11018 | | + 6m ± P ₅ , C ₅ |
| | 308 | 7 | 311 | 3 | 49 | 913 | 0 | | | | 2A44 | 11 | |

| Code | From | To | Recov. | No. | Unit | Description | | |
|------|------|------|--------|-----|-------|-------------|---------|---|
| 1 | 10 | 14 | 16 | 20 | 22 24 | 26 28 30 | 34 36 | |
| | 0 | 1.5 | 0 | | | 1011 | | Casing - No return |
| | 1.5 | 1.22 | 0 | | | 1012 | 31A101 | BxA |
| | | | | | | | | 15-17.0 - 1 ft. lost - rubble RQD - 0% |
| | | | | | | | | 17.0-33 - Good recovery - local rubble zones RQD - 40% |
| | | | | | | | | 33.0-47.0 - Rubble + gouge - possible fault RQD - 0% |
| | | | | | | | | 33-37 - 1.5ft lost; 37-39 - 1.5ft lost; 41.5-44 - 1.5ft lost; |
| | | | | | | | | 49-77.0 - Good recovery RQD - 70% |
| | | | | | | | | 77.0-80.5 - Fault - rubble + gouge RQD - 0% |
| | | | | | | | | Good recovery |
| | | | | | | | | 80.5-EOI - Good recovery. RQD - 80% |
| | | | | | | | | local gouge at 84-85.5, 88.5-89.5 |
| | | | | | | | | lower contact very gradational - Entire interval brecciated - |
| | 1.22 | 1.59 | 9 | | | 03 | 111A | BxA |
| | | | | | | | | Good recovery - Entire interval brecciated. RQD - 90% |
| | | | | | | | | lower contact sharp + irregular. |
| | 1.59 | 2.13 | 4 | | | 04 | 110E178 | |
| | | | | | | | | TOI - 194.5 - unaltered RQD 70% |
| | | | | | | | | 194.5 - EOI - lighter colour - altered - RQD - 40% |
| | | | | | | | | Local gouge at 194.5-195.5, 197-199, 207-209. |
| | | | | | | | | lower contact sharp + irregular. Good recovery. |

DDH F-9.0-1.9
2 8

CURRAGH RESOURCES INC.
Lithologic Log

Date: 02/02/90 Logged By: PL

| Code | From | To | Recov. | No. | Unit | Description | | | | | | |
|------|-------|-------|--------|------|--------|--|----|----|----|----|----|--|
| 1 | 10 | 14 | 16 | 20 | 22 | 24 | 26 | 28 | 30 | 34 | 36 | |
| | 2134 | 2159 | | 1015 | 2E179 | 70% qtz 15% Py, 10% Po, 5% sph/bn +v.c py Est Pb+Zn 2-3% - Good recovery RQD 100% no foliation - lower contact gradational. | | | | | | |
| | 2159 | 22168 | | 1016 | 2E111 | 80% Py 5% sph/bn 15% qtz RQD 70% lower contact gradational Est Pb+Zn 2-3% Good recovery | | | | | | |
| | 22168 | 23177 | | 1017 | 2C1081 | 60% qtz, 35-40% Py, 1% Mt porphyroblasts, Est Pb+Zn ≤ 2% Local P32 lamination - 55° lower contact gradational Rubbly + gouged at 236.0-236.5 - Good recovery RQD - 40% | | | | | | |
| | 23177 | 25180 | | 1018 | 2E1181 | 75-80% Py, 15% qtz, 2-3% Mt porphyroblasts, 5-8% sph/bn Est Pb+Zn - 3-4% No foliation - lower contact gradational - Good recovery RQD - 70% | | | | | | |
| | 25180 | 27107 | | 1019 | 2D101 | 60% qtz, 30% Py, 10% sph/bn Est Pb+Zn 5-6% No foliation - lower contact sharp but broken. Good recovery - Local 2F4 bands RQD-30% | | | | | | |
| | 27107 | 2771 | | 110 | 2A1441 | 20% graphite bands, 20% qtz, 40% sph/bn, 20% Py Est Pb+Zn 18-20% P32 banding 67° | | | | | | |

DDH F-9.0-1.92 8CURRAGH RESOURCES INC.
Lithologic LogPage 5Date: 02/07/90 Logged By: PL

| Code | From | To | Recov. | No. | Unit | Description | | | | | |
|------|-------|-------|--------|-----|------|-------------|----|----|----|----|--|
| 1 | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 34 | 36 |
| | | | | | | | | | | | Grade decreases to 10-12% downhole. lower contact gradational. Good recovery RQD = 70% |
| | 277.7 | 307.8 | | | 2A4 | | | | | | Bleached |
| | | | | | | | | | | | 40% black graphitic bands, 40% glz bands, 12-15% Sp/ln stringers, 5-8% Py stringers. Dark grey at 70F + gradually gets more bleached downhole. PS2 banding 55° RQD 50% |
| | | | | | | | | | | | strongly broken // PS2 - Local gneiss at 288-288.5, 301-302.0, 307.6-307.8. Est Pb+Zn 6-7% Local lithons |
| | 307.8 | 308.7 | | | 1010 | | | | | | + Gn ± Py, Cp |
| | | | | | | | | | | | Qt vein w 15% Gn, 5% Py, to Cp - RQD 100% lower contact gouged over 1 inch |
| | 308.7 | 313.0 | | | 2A41 | | | | | | Same as unit 11 but more silicified & bleached. Est Pb+Zn 5-6% |
| | | | | | | | | | | | 313 EOH |

Note: F-90-20-27 are drilled for underground delineation

CURRAGH RESOURCES INC.

Page 1 of 1

DIAMOND DRILL CORE LOG

Date: 22/02/90

Hole Number: F-90-28

Reference Fabric Orientation Diagram:

Project: Faro pit (East phase)

Location: NE pit - Faro

section claim: 120+000

Mine Ferr. Plane Co-ords.: 9579.0 N 38161

15180.0 E 22657

Grid Co-ords:

Elevation: ~ 3710

All symmetry determinations looking

Total Depth: 174 ft

with dipping

Inclination: -90°

with dip azimuth

Purpose: To delineate east extension of ore horizon

Reason hole Terminated: Drilled through ore horizon into waste rock

Logged by: P. Ladwidge

Date(s) Logged:

Drilling Contractor: Advanced

Hole Cemented: No Steel down Hole: No

Size CORE From To Ba

Collar Cased and Capped: No

Assay Lab:

Certificate No's:

Started: Feb 16 Completed: Feb 17

F-90-28

DDH F-90-28
2 8

CURRAGH RESOURCES INC.

Page 1 of 1

Logged by P. Hedwidge

ASSAY LOG (SAMPLER'S COPY)

Date 20/02/90

Sampled by P. Hedwidge

| CODE | FROM | | TO | | SAMPLE | INTR. | REC (m) | UNIT | DESCRIPTION | | | | |
|------|-------|----|-------|----|--------|-------|---------|------|-------------|----------|--------|-----|----|
| | 10 | 14 | 16 | 20 | 22 | 26 | 28 | 30 | | 32 | 34 | 36 | 40 |
| | 110 | 0 | 115 | 0 | 48.021 | | | | 21D101 | | | | |
| | 415 | | 468 | | 22 | | | | 21A41 | | | | |
| | 468 | | 523 | | 23 | | | | 21A41 | (112419) | 50/50% | | |
| | 523 | | 578 | | 24 | | | | 21A41 | (10419) | 50/50% | | |
| | 832 | | 882 | | 25 | | | | 21A41 | | | | |
| | 972 | | 1039 | | 26 | | | | 21A41 | | | ± 9 | |
| | 11062 | | 11111 | | 27 | | | | 21A01 | | | | |
| | 11111 | | 11160 | | 28 | | | | " | | | | |
| | 11160 | | 1208 | | 48.029 | | | | " | | | | |

CURRAGH RESOURCES INC.
Lithologic Log

Date: 20/02/90 Logged By: P. Hedwidge

| Core | From | | To | | Recov. | | No. | | Unit | Description | |
|------|------|------|----|------|--------|----|-----|-----|---------|-------------|---|
| | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | | | 30 |
| | | 10 | | 11.0 | 0 | | | 101 | | | Casing - No return |
| | | 11.0 | | 11.5 | 0 | | | 102 | 2101 | | Rubble - 60% qtz, 25% Py, 15% sph/gen - no foliation 10.0-14.0 - 2ft lost; 14.0-19.0 - 3ft lost. Est Pb+Zn 7-8% RQD - 0% |
| | | 11.5 | | 41.5 | | | | 103 | 1104119 | | (2A4) 95/5% Hard to soft white - 5% Py, 2-3% v.f.g. sph/gen, 3-5% anhedral pink garnets. PS2 - TUI-34.0-60-65°; 34.0-EOI-85° CAX local ≤ 8" bands of (2A4) (same as unit 04) 15-19.0-3ft lost, Rest of recovery 0.15 - Gouged at 17.2-19.0, 22.0-25.0 (intermittently), 31.5-32.5, 33.5-34.0, Lower contact sharp + 11 PS2 at 85° CAX TUI-33.0 - RQD-10% 33.0-EOI - RQD-40% |
| | | 41.5 | | 57.8 | | | | 104 | 2A14 | | (110419) 85/15% PS2 - 55-85° CAX - wavy + usually poorly defined. 15% well to poorly defined Gp bands, 30% qtz, 30% Py, 25% sph/gen. Est Pb+Zn 10-12%. 46.8-48.5 have band of 110419 (as unit 03) w/ sharp upper + lower contacts at 85° CAX. Lower contact gradational - has intermittent 2A4/110419. No gouge zones - Good recovery RQD-80% |

| Code | From | | To | | Recov. | No. | Unit | Description |
|------|------|----|-----|----|--------|-----|----------|---|
| | 10 | 14 | 18 | 22 | | | | |
| | 57 | 8 | 83 | 2 | | 105 | 1.D141.9 | + Fault zone |
| | | | | | | | | Hard to soft - v. stony sericite. 5% Py. blebs - 2-3% v.f.g. sph/ln. Gauged from 74.0 - EOI - Major fault. Smaller gouge at 60.0 - 60.7. 5% gtz veins w 3-5% Gn + 5-10% Py concentrated in gouge zone. 74.0-79.0 - 1.5ft lost; 79.0 - EOI - 2.5ft lost. Rest of recovery O.K. TWI-74.0 RQD- 50% 74.0-EOI - RQD- 0% |
| | 83 | 2 | 88 | 2 | | 106 | 2.A14 | 45% gtz, 10% Gp stringers, 30% Sph/ln, 15% Py Weak PS2 banding at 60-75° CAX. lower contact sharp but gouged on next unit. Good recovery. RQD- 90% Est Pb + Zn 12-15% |
| | 88 | 2 | 97 | 2 | | 107 | 1.D141.9 | PS2 - 65-85° CAX - 5% Py, 2-3% Sph/ln, 5% gtz veins w 5% Py, 2-3% Gn. Intermittently gauged over 0% of interval. Good recovery. lower contact gradational. RQD- 5% |
| | 97 | 2 | 103 | 9 | | 108 | 2.A14 | ± 9 PS2 - 70-80° CAX but often poorly defined & wavy. 45% gtz, 10% poorly defined Gp bands, 25% Sph/ln, 20% Py. Good recovery. lower contact gradational. Tr. Cpy blebs. |

| Core | From | | To | | Recov. | No. | Unit | Description |
|------|-------|----|-------|----|--------|-----|-------|---|
| | 10 | 14 | 18 | 22 | | | | |
| | | | | | | | | Est Pb + Zn 10-12% RQD - 95% |
| | 11013 | 9 | 11016 | 2 | | 109 | 11014 | 119 |
| | | | | | | | | PS2 85° CAX + crystallized. 5% Py 2-3% v.f.s. Sph/Gn. Lower contact sharp at 60° CAX but gouged in next unit. Good recovery. RQD - 50% |
| | | | | | | | | Gouged at 104.4 - 104.6. |
| | 11016 | 2 | 11208 | | | 110 | 11210 | |
| | | | | | | | | PS2 45-85, wavy + often non-existent 60% qtz, 10% poorly defined Gp bands, 20% Py, 10% sph/Gn. Gouged at TOI-106.6, 108.0-111.0 (intermittantly), Good recovery - Est Pb + Zn 4-5% RQD - 50% |
| | 11208 | | 11310 | 6 | | 111 | 11214 | 119 |
| | | | | | | | | PS2 75-85° CAX - 5% Py 2-3% Sph/Gn Gouged at TOI-124.0, 125.0-125.5 (intermittantly) Lower contact sharp - marked by qtz vein w/ 3% Py at 129.8 - EOI. Good recovery TOI-124.0 - RQD - 0% 124.0 - EOI - RQD - 80% |
| | 11310 | 6 | 11615 | 5 | | 112 | 11401 | |
| | | | | | | | | 60% bio patches, 20% musc, 20% qtz. local andalusite plebs concentrated near & in qtz veins. Some qtz veins have up to 10% Gn. PS2 70-80 but very irregular & wavy. Lower contact gradual. Good recovery RQD - 90% |

DIAMOND DRILL CORE LOG

Date: 22/02/90

Hole Number: F-90-29

Reference Fabric Orientation Diagram:

Project: Faro (East phase)

Location: NE pit - Faro

Claim: 121

Terr. Plane Co-ords.: 9400.0 N 37.82

15252.0 E 225.82

Grid Co-ords:

Elevation: ~ 3720

All symmetry determinations looking

Total Depth: 204 ft

with dipping

Inclination: -90°

with dip azimuth

Purpose: To delineate east extension of ore horizon

Reason hole Terminated: Drilled through ore horizon into waste rocks

Logged by: P. Ledwidge Date(s) Logged:

Drilling Contractor: Advanced

Hole Cemented: No Steel down Hole: No

Size CORE From To

Collar Cased and Capped: No

Assay Lab:

Certificate No's:

Started: Feb 17 Completed: Feb 17

F-90-29

DDH F-9.0-29
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CURRAGH RESOURCES INC.

Page 1 of 1

Logged by P. Hedwidge

ASSAY LOG (SAMPLER'S COPY)

Date 21/02/90 Sampled by P. Hedwidge

| CODE | FROM | | TO | | SAMPLE | | INTR. | | REC (m) | | UNIT | | DESCRIPTION |
|------|------|----|-----|----|--------|------|-------|----|---------|----|-------|----|----------------------|
| | 10 | 14 | 16 | 20 | 22 | 26 | 28 | 30 | 32 | 34 | 36 | 40 | |
| | 147 | 0 | 150 | 5 | 4810 | 310 | | | | | 21041 | | ±5 |
| | 150 | 5 | 154 | 0 | | 311 | | | | | " | | |
| | 173 | 8 | 178 | 3 | | 312 | | | | | 21A41 | | ±BXA (110419) 90/10% |
| | 178 | 3 | 182 | 8 | | 313 | | | | | " | | " |
| | 182 | 8 | 187 | 3 | | 314 | | | | | " | | " |
| | 187 | 3 | 191 | 8 | | 315 | | | | | " | | " |
| | 110 | 5 | 111 | 0 | | 316 | | | | | 21A41 | | ±BXA (114) 97/3% |
| | 111 | 0 | 111 | 5 | | 317 | | | | | " | | " |
| | 111 | 5 | 112 | 0 | | 318 | | | | | " | | " |
| | 112 | 0 | 112 | 5 | | 319 | | | | | " | | " |
| | 112 | 5 | 113 | 0 | | 410 | | | | | " | | " |
| | 113 | 0 | 113 | 4 | | 411 | | | | | " | | " |
| | 113 | 4 | 113 | 9 | | 4810 | 412 | | | | " | | " |

| Core | From | | | | To | | | | Recov. | No. | Unit | Description |
|------|------|----|-----|----|----|----|-----|----|--------|-----|-----------------|--|
| | 1 | 10 | 14 | 18 | 20 | 22 | 24 | 28 | | | | |
| | | | 0 | | | | 1.0 | 0 | | | 101 | Casing - No return |
| | | | 1.0 | 0 | | | 4.7 | 0 | | | 102 110 114 119 | (100) 90/10% |
| | | | | | | | | | | | | PS2 - 65° CAX - Core light beige; locally have less sericitized bands w 30-40% bio. - 5% Pg blebs throughout - 2-3% an-to subhedral pinks, < 0.5cm garnets. 10.0-14.0 - 0.5ft lost; Rest of recovery good. TOI - 2.90 - strongly broken - local minor rubble RQD - 30% 29.0 - EOI - mod. broken - Gouged at 36.5-37.4, 38.9-39.0 - RQD - 50% lower contact sharp at 65° CAX. |
| | | | 4.7 | 0 | | | 5.4 | 0 | | | 103 210 141 | ±5 |
| | | | | | | | | | | | | PS2 - 65-70° CAX - often poor or non-existent. 60% Qtz (slightly dark locally, probably due to bleached Gp bands), 20% Pg, 20% Sph/Grn tr - 1% Cpy. Soil - 51.5 - Qtz vein w 3-5% Pg. lower contact gradational. Mod - strongly broken - Good recovery. RQD - 40% Est Ph + Zn 10% |
| | | | 5.4 | 0 | | | 7.3 | 8 | | | 104 110 141 91 | |
| | | | | | | | | | | | | PS2 65-80° CAX - 2-3% pink garnets - 5% Pg blebs, 5% Qtz veins w 5% Grn, 5% Pg & locally 3-5% Asp subhedral octahedrons. Gouged at: 64.0-64.4, 65.5-66.0, 69.0 - EOI (over 70% of core). lower contact sharp but gouged. TOI - 64.0 RQD - 70% |

| Core | From | | To | | Recov. | No. | Unit | Description | | |
|------|------|----|-------|----|--------|-----|-------|---|----|----|
| | 10 | 14 | 18 | 20 | | | | | 22 | 24 |
| | | | | | | | | Good recovery throughout interval. 74.0-EOI - RQD - 30% | | |
| | 73.8 | | 91.8 | | | 105 | 2A4 | ± BXA (1D419) 90/10 % | | |
| | | | | | | | | PS2 65-85 - brecciated locally - 40% qtz, 20% Gp, 20% Py, 20% sph/Gn, when brecciated is qtz flooded. Local ≤ 1ft qtz veins w/ 10% Gn, 1-2% Cpy. Core changes frequently from banded to non banded & med to high grade. Lower contact gradational & poorly defined. 10% sericite schist bands (≤ 1ft). Gouged at 77.5-78.0, 79.0-80.0 (intermittantly) Good recovery. | | |
| | | | | | | | | TOI - 83.3 - mod. broken - → RQD - 50% | | |
| | | | | | | | | 83.3 - EOI - strongly broken - local rubble zones - → RQD - 20% | | |
| | | | | | | | | Est Pbt Zn - 8-10% | | |
| | 91.8 | | 101.5 | | | 106 | 1D419 | ± BXA | | |
| | | | | | | | | PS2 - SS-60° CAX - 5% Py, 2-3% sph/Gn - concentrations slightly higher near upper & lower contacts. 2-3% pink anhedral to sub-hedral grains. 30% of core is strongly brecciated. Gouged at: 101.5-103.0. Good recovery, 5% qtz veins w/ 5% Asp + 3-5% Py, tr. Cpy. Lower contact sharp at 78° CAX but core becomes more silicified as contact approaches. Good recovery RQD - 60% | | |
| | | | | | | | | Local lithons. | | |

| Core | From | | To | | Recov. | No. | Unit | Description | |
|------|-------|----|-------|----|--------|-----|------|--|----|
| | 10 | 14 | 18 | 22 | | | | | 24 |
| | 110.5 | 5 | 113.9 | 7 | | 107 | 2A4 | ± BXA (1F4) 97/03 % | |
| | | | | | | | | PSZ 0-90 - Unit folded + brecciated. 40% Qtz, 15% Gp, 25% Sph/Gn, 20% Py. Is banded to non banded. TOI-174.0 - mostly banded at 55-85°CAY - 115.3 - 116.1 - Gouged metabasite lense. 174.0 - EOI - Brecciated + poorly banded 133.0 - EOI - Gouged over 40% of interval. Some of the gouge may be metabasite but is too gouged to tell. Lower contact brecciated + gradational. Slightly lower grade. TOI-133.0 - RQD - 50% Good recovery throughout unit. 133.0 - EOI - RQD - 15% Est Pb+Zn - 10-12 % | |
| | 113.9 | 7 | 116.9 | 0 | | 108 | 10E | BXA | |
| | | | | | | | | Weathered - TOI - 156 - 15% rock fragments - 156 - EOI - 50% rock fragments - Fragments include 10D7, 10C, + 10Q. Lower contact gradational + arbitrary. Good recovery. RQD - 70% | |
| | 116.9 | 0 | 204 | | | 109 | 10E | BXA | |
| | | | | | | | | Includes 10% 10E - v. strongly brecciated Gouged at 173.6 - 173.8, 178.7 - 179.0, 181.7 - 183.0 (intermittant) 188.0 - EOI (over 60% of interval) Good recovery. RQD - 30% | |
| | | | | | | | | 204 EOH | |

DIAMOND DRILL CORE LOG

Date: 21/02/90

90F-20

Hole Number: F-90-20

Reference Fabric Orientation Diagram:

Project: Faro U/G delineation

Location: Faro pit (Goat trail W)

Section Claim: 123

Mine Ferr. Plane Co-ords.: 7918.074 N

14225.168 E

Grid Co-ords: _____

Elevation: 3773.410

All symmetry determinations looking

Total Depth: 406.5 ft

_____ with _____ dipping

Inclination: -65° @ 045°

_____ with dip azimuth 045°.

Purpose: To delineate underground workings

Reason hole Terminated: Drilled through ore horizon into waste rocks

Logged by: P. Hedwidge

Date(s) Logged: _____

Drilling Contractor: Advanced

| | | | |
|-----------|-----------|-------|------------------------------------|
| Size | CORE From | To | Collar Cased and Capped: <u>No</u> |
| <u>BQ</u> | _____ | _____ | |

Hole Cemented: No Steel down Hole: No

Assay Lab: _____

Certificate No's: _____

Started: Jan 30 Completed: Feb. 1

DDH F-9.0-20
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CURRAGH RESOURCES INC.

Page 1 of 1

Logged by R. Hedwidge

ASSAY LOG (SAMPLER'S COPY)

Date 05/02/90

Sampled by R. Hedwidge

| CODE | FROM | TO | SAMPLE | INTR. | REC (m) | UNIT | DESCRIPTION |
|------|--|-------------|-----------|-------|---------|------|----------------------------|
| 1 | 10 14 16 20 22 26 28 30 32 34 36 40 42 | | | | | | |
| | 32.5 33.0 | 33.0 33.4 | 49.9 33 | | | 2A0 | |
| | 33.0 33.4 | 33.4 33.9 | 34 | | | " | |
| | 33.4 33.9 | 33.9 34.4 | 35 | | | " | |
| | 33.9 34.4 | 34.4 34.9 | 36 | | | " | |
| | 34.4 34.9 | 34.9 35.4 | 37 | | | " | |
| | 34.9 35.4 | 35.4 35.9 | 38 | | | " | |
| | 35.4 35.9 | 35.9 36.4 | 39 | | | 2H42 | ±1, ±9 5' 1.42, 2.80, 27.6 |
| | 35.9 36.4 | 36.4 36.9 | 40 | | | " | " 5' 4.35, 7.79, 80.9 |
| | 36.4 36.9 | 36.9 37.4 | 41 | | | " | " 5.1' 3.26, 8.60, 47.2 |
| | 36.9 37.4 | 37.4 37.9 | 42 | | | " | " 5.1' 11.70, 9.72, 66.4 |
| | 37.4 37.9 | 37.9 38.4 | 43 | | | " | " 5.1' 4.70, 6.94, 82.0 |
| | 38.0 38.4 | 38.4 38.9 | 44 | | | 2A0 | |
| | 38.4 38.9 | 38.9 39.4 | 45 | | | " | |
| | 38.9 39.4 | 39.4 39.9 | 46 | | | " | |
| | 39.4 39.9 | 39.9 40.4 | 49.9 47 | | | " | |

| Core | From | | | | To | | | | Recov. | No. | Unit | Description |
|------|------|------|----|-------|----|----|----|----|--------|-----|------|---|
| | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | | | | |
| | | 0 | | 11.0 | | | | | | 01 | | Casing - No return |
| | | 11.0 | | 49.6 | | | | | | 02 | 31A | |
| | | | | | | | | | | | | Predominantly (90%) graphitic phyllite + 10% chloritized phyllite ± bio patches. No apparent pelrites. PS ₂ laminations - 13.0-80°; 35.0-90°, 49.0-90°. Lower contact sharp but gouged from 49.2-49.6. 11 PS ₂ 11.0-23.5 - Rubble RQD - 0% 23.5-38.0 - V. strongly broken RQD - 5% 38.0-41.5 - Rubble + gouge RQD - 0% 41.5-EOI - strongly broken RQD - 30% 14.0-18.5 - 3ft lost; 18.5-23.5 - 2.5ft lost; Rest of recovery 0.15. |
| | | 49.6 | | 280.5 | | | | | | 03 | 1010 | ± 8 PS ₂ laminations - 60.0-90°; 80.0-90°; 100.0-85°; 118.0-85°; 140.0-85°; 160.0-85°; 180.0-85°; 200.0-85° - 200 EOI Core is filled - PS ₂ ranges from 80-90° CA. Core gouged at 83.0-83.5, 119.0-120.5, 138.5-139.0, 140.0-140.5, 144.0-144.5, 152.0-152.5, 154.0-155.5, 185.5-186.5, 194.5-195.0, 215.9-217.0, 228.5-231.5, 244.6-245.0, 275.2-275.7. Good recovery throughout. RQD - 70% Lower contact sharp but gouged on next unit. |

| Cofc | From | | | | To | | | | Recov. | No. | Unit | Description |
|------|------|------|----|------|------|----|----|----|--------|-----|------|--|
| | 1 | 10 | 14 | 16 | 20 | 22 | 24 | 26 | | | | |
| | | 2810 | 5 | | 3020 | | | | | 014 | 1D12 | |
| | | | | | | | | | | | | PS2 70-80 - non-crenulated. |
| | | | | | | | | | | | | Gauged 280.5 - 281.0, 297.4 - 297.6 |
| | | | | | | | | | | | | Lower contact gradational - Good recovery RQD 80% |
| | | 3020 | | 3251 | | | | | | 015 | 1D10 | ±4 ±BXA |
| | | | | | | | | | | | | TOI-310.0 - PS2 75-85 - micro lithons |
| | | | | | | | | | | | | 310-EOI - Brecciated & folded. PS2 60-80 in non-brecciated |
| | | | | | | | | | | | | or folded areas. Lower contact gradational - strongly |
| | | | | | | | | | | | | sericitized & silicified at lower contact. |
| | | | | | | | | | | | | 313.8 - 317.0 - Strong sericite, minor gouge & local qtz vein. |
| | | | | | | | | | | | | Good recovery. RQD - 60% |
| | | 3251 | | 3547 | | | | | | 06 | 2A10 | |
| | | | | | | | | | | | | 80% black carbonaceous bands, 15% qtz bands - 10% |
| | | | | | | | | | | | | Sph/Gn concentrated in qtz bands, 10% P ₂ in qtz |
| | | | | | | | | | | | | bands & as irregular clusters. |
| | | | | | | | | | | | | PS2 70-85 - local lithons. |
| | | | | | | | | | | | | Wealthily gouged 334.0 - 336.0 - RQD 80% |
| | | | | | | | | | | | | 347.4 - 348.5 - Qtz vein w/ 15% P ₂ , 10% Sph ± Gn |
| | | | | | | | | | | | | Lower contact gradational. 353-EOI - P ₀ content |
| | | | | | | | | | | | | gradually increases until contact where P ₀ is massive. |

| Core # | From | | | To | | | Recov. | | | No. | | | Unit | | | Description |
|-----------|------|----|----|----|----|----|--------|----|----|-----|----|----|------|----|----|---|
| | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | |
| | 3 | 5 | 4 | 7 | 3 | 8 | 0 | | | | 0 | 7 | 2 | 1 | 4 | ± 1 ± 9 |
| | | | | | | | | | | | | | | | | 65% Sph/Gn bearing copper red Py, 30% Py porphyroblast + fragments of ZH0 (up to 1ft long), 5% diss. Qtz blebs + specks. Trace Cpx blebs. Est Pb + Zn 10-12% - lower contact sharp but irregular. 378 - EOI - core less magnetic & seems to have more vifig. Py. Good recovery. RQD - 90% |
| | 3 | 8 | 0 | 0 | 3 | 9 | 7 | 6 | | | 0 | 8 | 2 | 1 | 7 | ± B x A |
| | | | | | | | | | | | | | | | | 380 - 382.0 - 15% Sph/Gn stringers Rest of unit has 10% Sph/Gn, 10% Py, 60% graphite bands + 20% Qtz bands 385.0 - 387.2; 396.5 - 397 - Strongly brecciated. PS2 60-70° - local lithons Est Pb + Zn - 5% - Good recovery Lower contact gradational but marked by Qtz vein at 399.3 - 399.6. (Qtz veins has 5% Py) RQD - 60% |
| | 3 | 9 | 7 | 6 | 4 | 0 | 6 | 5 | | | 0 | 9 | 1 | 1 | 0 | PS2 - 45-75° wavy + weakly crystallized 2-3% garnets Gauged at 400.8 - 401.0 Good recovery RQD - 60% |
| | | | | | | | | | | | | | | | | 406.5 - EOH |

DIAMOND DRILL CORE LOG

Date: 22/02/90

90F-21

Hole Number: F-90-21

Reference Fabric Orientation Diagram:

Project: Faro V/G delineation

Location: Faro pit (Goat trail W)

Claim:

Terr. Plane Co-ords.: Beside F-90-22 N
E

Grid Co-ords:

Elevation:

All symmetry determinations looking

Total Depth:

with dipping

Inclination:

with dip azimuth

Purpose:

Reason hole Terminated: Hole aborted - lost in hole - F-90-22 drilled at no extra cost.

Logged by:

Date(s) Logged:

Drilling Contractor:

| Size | CORE From | To | Collar Cased and Capped: |
|------|-----------|----|--------------------------|
| | | | |

Hole Cemented: Steel down Hole:

Assay Lab:

Certificate No's:

Started: Feb. 2 Completed: Feb. 2

DIAMOND DRILL CORE LOG

Date: 21/02/90

Hole Number: F-90-22

Reference Fabric Orientation Diagram:

Project: Faro U/G delineation

Location: Faro pit (Goat trail W)

Section Claim: 125

Mine Ferr. Plane Co-ords.: 7727.468 N

14413.894 E

Grid Co-ords: _____

Elevation: 3794.230 ✓

All symmetry determinations looking

Total Depth: 444 ft

_____ with _____ dipping

Inclination: -74 @ 046

_____ with dip azimuth 046.

Purpose: To delineate underground workings.

Reason hole Terminated: Drilled through ore horizon into waste rock.

Logged by: P. Hedwidge

Date(s) Logged: _____

Drilling Contractor: Advanced

Hole Cemented: No Steel down Hole: No

Size CORE From To
BQ _____

Collar Cased and Capped: No

Assay Lab: _____

Certificate No's: _____

Started: Feb 2 Completed: Feb 4

90F-22

CURRAGH RESOURCES INC.

DDH 90.F-22
2 8

Diamond Drill Core Log Date: _____ Logged By: _____

| Code | Drillhole | Elevation | Northing | Easting | Units (feet/metres) | R.F.E. |
|------|-----------|-----------|-----------|------------|------------------------|----------|
| I | 2 | 8 | 10 16 17 | 24 25 | 32 34 | 39 41 42 |
| T | 90.F-22 | 3794.230 | 77727.468 | 144113.894 | FEET | |

| Code | Drillhole | Depth | Zenith Angle | True Azimuth | Comments | |
|------|-----------|-------|-----------------|-----------------|-------------|----|
| I | 2 | 8 | 10 14 22 | 26 28 | 32 34 | 56 |
| R | 90.F-22 | 100.0 | -7.4° | 041.6° | A.T. COLLAR | |
| | 90.F-22 | 14.4 | -17.1° | 53.5° | | |
| | 90.F-22 | 24.4 | -16.9° | 54.0° | | |
| | 90.F-22 | 34.4 | -16.9° | 42.5° | | |
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| Code | Drillhole | Comments, Errant Remarks, Snivellings and / or Lewd Suggestions |
|------|-----------|---|
| I | 2 | 8 10 |
| | | |
| | | |
| | | |
| | | |

Note: Hole F-90-21 was lost in ground - F-90-22 drilled 11T beside +1

DDH F-90-22 CURRAGH RESOURCES INC.

Page 1 of 1

Logged by R. Hedwidge

ASSAY LOG (SAMPLER'S COPY)

Date _____ Sampled by R. Hedwidge

| CODE | FROM | | TO | | SAMPLE | | INTR. | | REC (m) | | UNIT | | DESCRIPTION |
|------|------|----|-----|----|--------|----|-------|----|---------|----|------|-------|-------------------------------|
| | 10 | 14 | 16 | 20 | 22 | 26 | 28 | 30 | 32 | 34 | 36 | 40 | |
| | 365 | 2 | 366 | 8 | 499 | 48 | | | | | | 2E472 | Fault 1.6' 6.71, 11.33, 123.7 |
| | 371 | 5 | 373 | 6 | | 49 | | | | | | 2E741 | 2.1' 5.21, 237, 67.4 |
| | 373 | 6 | 377 | 8 | | 50 | | | | | | 2A01 | 4.2' 0.57, 1.15, 24 |
| | 377 | 8 | 382 | 2 | | 51 | | | | | | 2F068 | 4.4' 5.02, 8.27, 43.8 |
| | 382 | 2 | 386 | 6 | | 52 | | | | | | " | 4.4' 5.32, 7.14, 62.6 |
| | 386 | 6 | 391 | 0 | | 53 | | | | | | " | 4.4' 5.13, 6.44, 52.0 |
| | 391 | 0 | 395 | 4 | | 54 | | | | | | " | 4.4' 4.84, 5.53, 58.2 |
| | 395 | 4 | 399 | 7 | | 55 | | | | | | " | 4.3' 4.98, 5.20, 70.0 |
| | 399 | 7 | 403 | 7 | | 56 | | | | | | 2H421 | ± 9 4.0' 4.55, 6.56, 63.1 |
| | 403 | 7 | 408 | 5 | | 57 | | | | | | 2A101 | 4.8' 0.91 1.97 29.8 |
| | 408 | 5 | 413 | 3 | | 58 | | | | | | | 4.8' 0.77 2.12 18.6 |
| | 413 | 3 | 418 | 2 | 499 | 59 | | | | | | | 4.9' 0.57 1.49 9.7 |

| Core | From | | | To | | | Recov. | No. | Unit | Description | |
|------|------|-----|----|-----|----|----|--------|-----|--------|-------------|--|
| | 1 | 10 | 14 | 18 | 20 | 22 | | | | | 24 |
| | | 10 | | 10 | 0 | | | 101 | | | Casing - No return |
| | | 10 | | 41 | 5 | | | 102 | 31A101 | | Predominantly (80%) graphitic phyllite + 20% chloritic phyllite PS2 - 11.0 - 70" , 39.0 - 85" 0 - 30.0 - rubblely + v. strongly broken - RQD - 0% 30 - EOH - strongly broken RQD - 40% 10 - 21.5 - 8.0ft lost ; 21.5 - 24.5 - 1.5ft lost ; Rat of recovery good. Lower contact gradational + arbitrary. |
| | | 41 | 5 | 113 | 40 | | | 103 | 1, D10 | ± 8 | Local areas are strongly chloritized so that bio + graphite are obliterated. PS2 - ranges from 70-85 changes frequently Gouged at 120.6 - 122.0, 124.5 - 126.7. Rocks mottled brown, grey + green Lower contact gradational. RQD - 60% |
| | | 113 | 40 | 118 | 75 | | | 104 | 1, H10 | | Chloritic - med - green - no bio or graphite visible PS2 - 70-85 - local lithans Lower contact sharp but gouged on next unit. Bio + graphite weakly visible near upper + lower contacts Gouged at 173.0 - 173.4 RQD - 80% |

DDH F-9.0-2.2
2 8

CURRAGH RESOURCES INC

Lithologic Log

Page 4Date: 06/02/90 Logged By: PL

| Core | From | | | To | | | Recov. | | | No. | | | Unit | Description |
|------|------|------|----|------|----|----|--------|----|----|-----|-------|----|---|-------------|
| | 1 | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 34 | 36 | | |
| | | 1.87 | 5 | 3.34 | 0 | | | | | 105 | 1102 | | ±8 IBXA | |
| | | | | | | | | | | | | | Mottled brown & black, minor chloritic bands | |
| | | | | | | | | | | | | | PS2 191-75°; 214-80°; 232-85°; 254-85°; 274-85° | |
| | | | | | | | | | | | | | 304-85°; 315-70°, 334-85° | |
| | | | | | | | | | | | | | Gauged at: TUI-188.4, 211.5-212.5, 320.2-321.3 | |
| | | | | | | | | | | | | | 325.7-326.4 - local weakly brecciated areas | |
| | | | | | | | | | | | | | Lower contact gradational as rock gets less graphitic | |
| | | | | | | | | | | | | | more gtz/feld. bearing RQD- 80% | |
| | | 3.34 | 0 | 3.65 | 2 | | | | | 106 | 1108 | | ±8 IBXA | |
| | | | | | | | | | | | | | PS2 - 75-85 - wavy & distorted due to 20% gtz pods | |
| | | | | | | | | | | | | | Mottled brown/white/green - locally weakly brecciated areas. | |
| | | | | | | | | | | | | | Gauged at 355.7-355.9, 364.7-EUI - 3% pink andalusites. | |
| | | | | | | | | | | | | | Lower contact sharp but gauged | |
| | | | | | | | | | | | | | RQD- 80% | |
| | | 3.65 | 2 | 3.66 | 8 | | | | | 107 | 21472 | | Fault | |
| | | | | | | | | | | | | | Very strongly broken - has fault gouge (on adjacent units) at | |
| | | | | | | | | | | | | | upper & lower contacts - slickensides observed. | |
| | | | | | | | | | | | | | 60% v.f.g. by 10% Pl, 10% by porphyroblast, 20% sph/Gn | |
| | | | | | | | | | | | | | Est Pl+Zn - 10% | |
| | | | | | | | | | | | | | Notes: This unit may be wide elsewhere since it is faulted. | |

CURRAGH RESOURCES INC.
Lithologic Log

| Cof | From | | | To | | | Recov. | No. | Unit | Description |
|-----|------|----|-----|----|----|----|--------|-----|-------|--|
| | 10 | 14 | 18 | 20 | 22 | 24 | | | | |
| | 366 | 8 | 371 | 5 | | | | 108 | 1C84 | |
| | | | | | | | | | | Sericitized version of unit 06 - PS_2 60-85 + wavy & irregular |
| | | | | | | | | | | Graded at TOI - 367.0, 367.5-367.7, 368.5-368.7 |
| | | | | | | | | | | Good recovery lower contact sharp & irregular RQD - 60% |
| | 371 | 5 | 373 | 6 | | | | 109 | 2E74 | |
| | | | | | | | | | | V.f.g. magnetic, v.f.g. sph/bn - canals separate sulphide % ages |
| | | | | | | | | | | Est Pb+Zn - 5-10% - lower contact sharp at 15° CAX. |
| | | | | | | | | | | Good recovery RQD - 20% |
| | 373 | 6 | 377 | 8 | | | | 110 | 2A0 | |
| | | | | | | | | | | 70% qtz + dark grey silicified graphitic bands, 20% Py |
| | | | | | | | | | | stringers, 10% sph/bn stringers. |
| | | | | | | | | | | Est Pb+Zn 5% - PS_2 75° at TOI, 42° at EOI |
| | | | | | | | | | | lower contact sharp & irregular - Good recovery RQD - 90% |
| | 377 | 8 | 399 | 7 | | | | 111 | 2F068 | |
| | | | | | | | | | | 65% Py, 20% sph/bn, 5% Ba, 10% Po |
| | | | | | | | | | | lower contact gradational over 10 cm. RQD - 90% |
| | | | | | | | | | | Good recovery. |
| | 399 | 7 | 403 | 7 | | | | 112 | 2H42 | |
| | | | | | | | | | | ± 9 |
| | | | | | | | | | | Weak fol. at 65° CAX - 95% copper-red sph/bn bearing |
| | | | | | | | | | | Po, ~ 4% Py porphyroblast tr - 10% Cpy blebs |
| | | | | | | | | | | Est Pb+Zn 10-12% Good recovery |
| | | | | | | | | | | Lower contact gradational RQD - 100% |

| Core | From | | To | | Recov. | No. | Unit | Description | |
|------|------|----|------|----|--------|-----|------|--|----|
| | 10 | 14 | 18 | 22 | | | | | 24 |
| | 40.3 | 7 | 41.8 | 2 | | 1.3 | 2A10 | | |
| | | | | | | | | PS2 - 54° to 85° - (steepest in middle of interval - gradual change) | |
| | | | | | | | | 60-65% graphitic bands, 20% qtz bands, 10% Pz stringers | |
| | | | | | | | | 6-8% Sph/Gn as v.f.g. specks in Pz. Good recovery. | |
| | | | | | | | | lower contact sharp + 11 PS2 Est Pb+Zn 3-4% | |
| | | | | | | | | RQD ~ 70% | |
| | 41.8 | 2 | 44.4 | 0 | | 1.0 | 101 | | |
| | | | | | | | | PS2 70-75° CAX - local lithons - Good recovery | |
| | | | | | | | | local concretions - Upper contact silicified. | |
| | | | | | | | | Gauged at 430.7 - 431.1, 439.0 - 439.4 | |
| | | | | | | | | RQD - 60% | |
| | | | | | | | | 444 EOH | |

DIAMOND DRILL CORE LOG

Date: 21/02/90

Hole Number: F-90-23

Reference Fabric Orientation Diagram:

Project: Faro U/G delineation

Location: Faro pit (Goat trail W)

Section Claim: 127

Mine Ferr. Plane Co-ords.: 7584.787 N

14619.202 E

Grid Co-ords:

Elevation: 3812.571

All symmetry determinations looking

Total Depth: 459.0

with dipping

Inclination: -80 @ 045°

with dip azimuth 045°.

Purpose: To delineate underground workings.

Reason hole Terminated: Drilled through ore horizon into waste rock

Logged by: P. Ledwidge

Date(s) Logged:

Drilling Contractor: Advanced

Size CORE From To

Hole Cemented: No Steel down Hole: No

BQ

Collar Cased and Capped: No

Assay Lab:

Certificate No's:

Started: Feb. 4 Completed: Feb. 6

90F-23

CURRAGH RESOURCES INC.

DDH 9,0,F,-23
2 8

Diamond Drill Core Log

Date: 21/02/90 Logged By: P. Ledwidge

| Code | Drillhole | Elevation | Northing | Easting | Units (feet/metres) | R.F.E |
|------|-----------|-----------|-------------|---------------|------------------------|----------------|
| 1 | 2 | 8 | 10 | 16 17 | 24 25 | 32 34 39 41 42 |
| T | 9,0,F,-23 | 38,125,1 | 75,84,7,8,7 | 1,461,9,2,0,2 | FEET | |

| Code | Drillhole | Depth | Zenith Angle | True Azimuth | Comments |
|------|-----------|-------|-----------------|-----------------|-------------------------|
| 1 | 2 | 8 | 10 | 14 22 | 26 28 32 34 56 |
| R | 9,0,F,-23 | 1010 | -80. | 045. | A, T, C, O, L, L, A, R, |
| | 9,0,F,-23 | 1159 | -79. | 042. | |
| | 9,0,F,-23 | 1259 | -76. | 049. | |
| | 9,0,F,-23 | 1359 | -75. | 485. | |
| | 9,0,F,-23 | 1459 | -75. | 050. | |

| Code | Drillhole | Comments, Errant Remarks, Snivellings and / or Lewd Suggestions |
|------|-----------|---|
| 1 | 2 | 8 10 56 |
| | | |
| | | |
| | | |

DDH E-90-23
2 8

CURRAGH RESOURCES INC.

Page 1 of 1

Logged by P. Hedwidge

ASSAY LOG (SAMPLER'S COPY)

Date 12/07/90 Sampled by P. Hedwidge

| CODE | FROM | | TO | | SAMPLE | INTR. | | | | REC (m) | UNIT | DESCRIPTION | |
|------|------|----|------|----|--------|-------|----|----|----|---------|-------|-------------|----------------------------------|
| | 10 | 14 | 16 | 20 | | 22 | 26 | 28 | 30 | | | | 32 |
| | 3410 | 4 | 3448 | 8 | 491610 | | | | | | 2A10 | 4.4' | 0.34 Pb 0.69 Zn 5.4 Ag |
| | 3448 | | 3492 | | 161 | | | | | | " | 4.4' | 2.51 Pb 3.08 Zn 20.4 Ag |
| | 3492 | | 3529 | | 162 | | | | | | 2E161 | (2H4) 3.7' | ^{5.72} 5.21 5.36 85/15% |
| | 3529 | | 3566 | | 163 | | | | | | " | " | 3.7' 5.00, 5.11, 64.8 |
| | 3566 | | 3600 | | 164 | | | | | | 2A4 | 3.4' | 3.75, 5.20, 43.1 |
| | 3600 | | 3634 | | 165 | | | | | | " | 3.4' | 2.94, 5.68, 48.6 |
| | 3634 | | 3677 | | 166 | | | | | | 2F4 | 4.3' | 4.88, 7.66, 48.4 |
| | 3677 | | 3715 | | 167 | | | | | | 2A4 | 3.8' | 1.85, 2.20, 82.2 |
| | 3715 | | 3753 | | 168 | | | | | | " | 3.8' | 2.88, 5.42, 79.1 |
| | 3753 | | 3790 | | 169 | | | | | | " | 4.2' | 3.33, 7.97, 52.5 |
| | 3790 | | 3838 | | 170 | | | | | | 2A10 | 4.8' | 1.45 2.65 30.3 |
| | 3838 | | 3886 | | 171 | | | | | | " | 4.8' | 1.52 2.59 30.2 |
| | 3886 | | 3934 | | 172 | | | | | | " | 4.8' | 2.41 6.01 39.5 |
| | 3934 | | 3982 | | 173 | | | | | | " | 4.8' | 0.59 1.57 15.1 |
| | 3982 | | 4030 | | 174 | | | | | | " | 4.8' | 0.52 0.93 10.1 |
| | 4030 | | 4079 | | 175 | | | | | | " | 4.9' | 0.22 0.99 5.3 |
| | 4079 | | 4128 | | 176 | | | | | | " | 4.9' | 1.14 0.48 21.1 |
| | 4128 | | 4177 | | 177 | | | | | | " | 4.9' | 0.28 0.69 6.6 |
| | 4177 | | 4226 | | 178 | | | | | | " | 4.9' | 0.39 1.55 13.2 |
| | 4226 | | 4274 | | 179 | | | | | | 2A100 | | |
| | 4274 | | 4322 | | 180 | | | | | | " | | |
| | 4322 | | 4370 | | 181 | | | | | | | | |
| | 4370 | | 4418 | | 182 | | | | | | | | |
| | 4418 | | 4466 | | 183 | | | | | | | | |
| | 4466 | | 4514 | | 184 | | | | | | | | |
| | 4514 | | 4562 | | 185 | | | | | | | | |
| | 4562 | | 4610 | | 186 | | | | | | | | |
| | 4610 | | 4658 | | 187 | | | | | | | | |
| | 4658 | | 4706 | | 188 | | | | | | | | |
| | 4706 | | 4754 | | 189 | | | | | | | | |
| | 4754 | | 4802 | | 190 | | | | | | | | |
| | 4802 | | 4850 | | 191 | | | | | | | | |
| | 4850 | | 4898 | | 192 | | | | | | | | |
| | 4898 | | 4946 | | 193 | | | | | | | | |
| | 4946 | | 4994 | | 194 | | | | | | | | |
| | 4994 | | 5042 | | 195 | | | | | | | | |
| | 5042 | | 5090 | | 196 | | | | | | | | |
| | 5090 | | 5138 | | 197 | | | | | | | | |
| | 5138 | | 5186 | | 198 | | | | | | | | |
| | 5186 | | 5234 | | 199 | | | | | | | | |
| | 5234 | | 5282 | | 200 | | | | | | | | |

| Core | From | | To | | Recov. | No. | Unit | Description | | |
|------|------|------|----|------|--------|-----|--------|---|----|----|
| | 10 | 14 | 18 | 20 | | | | | 22 | 24 |
| | | 10 | | 20 | 0 | 101 | | Casing No return | | |
| | | 2100 | | 2647 | 7 | 102 | 110101 | ±8 | | |
| | | | | | | | | Local green chloritic bands (≤ 1ft) | | |
| | | | | | | | | 20-21.5 Rubble RQD - 0% | | |
| | | | | | | | | 20-24.0 0.5ft lost Rest of recovery good. | | |
| | | | | | | | | 21.5-162.0 RQD - 70% | | |
| | | | | | | | | PS2 - 75-85° - changes gradual | | |
| | | | | | | | | Gauged at - 26.5-27.0, 84.0-84.4, 114.0-114.7, 123.8-124.5, 211.9-212.4, 234.0-274.4, 238.3-239.8 - 264.2-EOI | | |
| | | | | | | | | 162.0-192.0 - med-strongly brecciated - local rubble RQD - 40% | | |
| | | | | | | | | Lower contact is gneiss but rock is med to strongly sericitized 2ft prior to contact. Good recovery | | |
| | | 2647 | | 2790 | | 103 | 1150 | ±9 | | |
| | | | | | | | | 2-3% Py stringer + blebs PS2 70-85° + weakly crystallized | | |
| | | | | | | | | Gauged at 265.9-267.0, 270.5-270.7 Good recovery | | |
| | | | | | | | | Lower contact gradational RQD - 70% | | |
| | | 2790 | | 3325 | | 104 | 110101 | | | |
| | | | | | | | | PS2 - 75-80° Gauged at 330.1-330.4 Good recovery | | |
| | | | | | | | | Lower contact gradational over 20cm. RQD - 90% | | |

DDH F-90-23
2 8CURRAGH RESOURCES INC.
Lithologic LogPage 4Date: 9/02/90 Logged By: PL

| Code | From | | | To | | | Recov. | No. | Unit | Description | |
|------|------|----|-----|----|----|----|--------|------|-------|--|---|
| | 10 | 14 | 18 | 20 | 22 | 24 | | | | | 26 |
| | 332 | 5 | 340 | 4 | | | | 1015 | 1E101 | +9 | 2-3% Py stringers + blebs Gauged at 333.8 - 334.1, 339.8 - EOI PS ₂ 80-85 + crumpled + has local lithons. Lower contact gauged but sharp. Good recovery. RQD - 40% |
| | 3410 | 4 | 349 | 2 | | | | 1016 | 2A101 | Bleached | 60% Qtz, 10% blebs to grey (sp bands), 20-25% Py bands, 6-8% sph/ln bands PS ₂ 70-750 347.5 - EOI - Brecciated - contact is sharp but irregular. TOT 347 - Rubbly + strongly broken RQD - 5% Good recovery 347 - EOI RQD - 100% Est Pb + Zn - 3-5% |
| | 349 | 2 | 356 | 6 | | | | 1017 | 2E161 | (2H4) 85/15% | 60% Py, 10% Ba, 30% sph/ln. Est Pb + Zn 15% 155.3 - EOI 2H4 w Est 10-12% Pb + Zn Good recovery RQD - 80% lower contact gradational |
| | 356 | 6 | 363 | 4 | | | | 1018 | 2A111 | 45% black graphite - 30% Qtz, 15% Py 10% sph/ln. Est Pb + Zn 5% . TOT 357.0 - Brecciated RQD - 100% 357.0 - EOI Rubbly + strongly broken RQD - 5% Good recovery, lower contact broken but gradational | |

| Core | From | | To | | Recov. | | No. | | Unit | | Description |
|------|------|----|------|----|--------|----|-----|----|------|--------|---|
| | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 34 | |
| | 3,63 | 4 | 3,67 | 7 | | | | | 109 | 2A4 | |
| | | | | | | | | | | | 60% Py, 40% Gn ± Sph Est Pb+Zn 18-20% lower contact sharp but irregular. RQD - 60% |
| | 3,67 | 7 | 3,79 | 0 | | | | | 110 | 2A4 | |
| | | | | | | | | | | | 45% Gp bands, 30% qtz, 15% Sph/Gn, 10% Py Lower contact gradational Est Pb+Zn 7-8% PSz 75% local lithons. RQD - 90% Good recovery |
| | 3,79 | 0 | 4,22 | 6 | | | | | 111 | 2A0 | |
| | | | | | | | | | | | 70% Gp bands, 15% qtz, 8% Sph/Gn 5-10% Py TOI-398 10% Sph/Gn 3-5% Py 398-EOT - 10% Py, 2-5% Sph/Gn gradual Pb/Zn decrease downhole. Overall Est Pb+Zn - 4% PSz 70-80% local lithons Gouged at 411.0 - 414.4 lower contact sharp + PSz TOI-40T - RQD - 90% Rubbly at 389-390, 393.7-394.5 401-EOT RQD - 70% |
| | 4,22 | 6 | 4,29 | 0 | | | | | 112 | 1D41.9 | |
| | | | | | | | | | | | 2-3% garnets, 3-5% Py stringers - PSz folded & crenulated. lower contact sharp at 80° Gouged at 424.5 - 424.6 Good recovery RQD - 80% |

CURRAGH RESOURCES INC.
Lithologic Log

| Code | From | | | To | | | Recov. | | | No. | Unit | Description |
|------|------|----|----|-----|----|----|--------|----|----|-----|--------|--|
| | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | | | |
| | 429 | 0 | | 440 | 1 | | | | | 113 | 2A1000 | |
| | | | | | | | | | | | | 5% Py blebs - 2-3% sph/Gn |
| | | | | | | | | | | | | PS2 - 429 - 720, 437 - 470 local lithons |
| | | | | | | | | | | | | Est Pb+Zn 1-2% This unit is borderline w/ 10219 |
| | | | | | | | | | | | | TOT-237-0 RQD- 90% |
| | | | | | | | | | | | | 237.0 - EOI - v. strongly broken - gauge at 239 - EOI - RQD 0% |
| | | | | | | | | | | | | lower contact sharp but gouged. Good recovery Est Pb+Zn ≤ 2% |
| | 440 | 1 | | 459 | 0 | | | | | 114 | 1100 | |
| | | | | | | | | | | | | PS2 ~ 70° ± 10° - local lithons - Locally crinoid |
| | | | | | | | | | | | | Good recovery. RQD - 80% |
| | | | | | | | | | | | | 459.0 EOH |

DIAMOND DRILL CORE LOG

Date: _____

Hole Number: F-90-24

Reference Fabric Orientation Diagram:

Project: Favo U/G. Delineation

Location: Favo Pit (Goat trail W)

Section Claim: 128 + 000

mine Terr. Plane Co-ords.: 7500.444 N

14762.762 E

Grid Co-ords: _____

Elevation: 3827.118

All symmetry determinations looking

Total Depth: 459

_____ with _____ dipping

Inclination: -90°

_____ with dip azimuth _____.

Purpose: To delineate U/G workings

Reason hole Terminated: Drilled through ore horizon into waste rock.

Logged by: P. Ledwidge

Date(s) Logged: _____

Drilling Contractor: Advanced

Hole Cemented: No Steel down Hole: No

| | | | |
|-----------|-----------|-------|------------------------------------|
| Size | CORE From | To | Collar Cased and Capped: <u>No</u> |
| <u>BQ</u> | _____ | _____ | |

Assay Lab: _____

Certificate No's: _____

Started: Feb. 6 Completed: Feb 9

90F-24

CURRAGH RESOURCES INC.

DDH 90.F-24
2 8

Diamond Drill Core Log

Date: _____ Logged By: _____

| Code | Drillhole | Elevation | Northing | | | Easting | | | Units (feet/metres) | R.F.E. | | |
|------|-----------|-----------|----------|-----|----|---------|----|----|------------------------|--------|----|----|
| I | 2 | 8 | 10 | 16 | 17 | 24 | 25 | 32 | 34 | 39 | 41 | 42 |
| T | 90.F-24 | 3827.1 | 118750.0 | 444 | | 147627 | 62 | | F.E.E.T. | | | |

| Code | Drillhole | Depth | Zenith Angle | True Azimuth | Comments | | | | | |
|------|-----------|-------|--------------|--------------|-----------------|----|----|----|----|----|
| I | 2 | 8 | 10 | 14 | 22 | 26 | 28 | 32 | 34 | 56 |
| R | 90.F-24 | 0.00 | -90° | • | A T C O L L A R | | | | | |
| R | 90.F-24 | 1.59 | -87° | 045° | | | | | | |
| R | 90.F-24 | 2.59 | -88° | 045° | | | | | | |
| R | 90.F-24 | 3.59 | -87° | 045° | | | | | | |
| R | 90.F-24 | 4.59 | -84° | 045° | | | | | | |
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| Code | Drillhole | Comments, Errant Remarks, Snivellings and / or Lewd Suggestions | | |
|------|-----------|---|----|----|
| I | 2 | 8 | 10 | 56 |
| | 90.F-24 | No Azimuths were recorded Pipe done by acid tests. Azimuth assumed to be 045° | | |
| | | | | |
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| | | | | |

DDH $\frac{F_1-9.0-2.4}{2 \quad 8}$

CURRAGH RESOURCES INC.

Page 1 of 1

Logged by P. Ledwidge

ASSAY LOG (SAMPLER'S COPY)

Date _____ Sampled by P. Ledwidge

| CODE | FROM | | TO | | SAMPLE | | INTR. | | REC (m) | | UNIT | | DESCRIPTION |
|------|------|----|-----|----|--------|------|-------|----|---------|----|------|------|------------------------|
| | 10 | 14 | 16 | 20 | 22 | 26 | 28 | 30 | 32 | 34 | 36 | 40 | |
| | 325 | | 327 | 0 | 499 | 81 | | | | | 2A10 | 1010 | 2.0' |
| | 327 | 0 | 330 | 2 | | 82 | | | | | 2A10 | | BXA Fault 3.2' |
| | 330 | 2 | 334 | 6 | | 83 | | | | | 2A41 | | 4.4' |
| | 334 | 6 | 339 | 0 | | 84 | | | | | " | | 4.4' 1.36, 6.82, 12.1 |
| | 339 | 0 | 343 | 4 | | 85 | | | | | " | | 4.4' 3.41, 10.57, 33.6 |
| | 343 | 4 | 347 | 7 | | 86 | | | | | " | | 4.3' 4.63, 7.73, 48.7 |
| | 347 | 7 | 352 | 0 | | 87 | | | | | " | | 4.3' 3.40, 4.36, 47.9 |
| | 352 | 0 | 356 | 8 | | 88 | | | | | 2A10 | | |
| | 356 | 8 | 361 | 6 | | 89 | | | | | " | | |
| | 361 | 6 | 366 | 4 | | 90 | | | | | " | | |
| | 366 | 4 | 371 | 2 | | 91 | | | | | " | | |
| | 371 | 2 | 376 | 0 | | 92 | | | | | " | | |
| | 376 | 0 | 380 | 8 | | 93 | | | | | " | | |
| | 380 | 8 | 385 | 6 | | 94 | | | | | " | | |
| | 385 | 6 | 390 | 4 | | 95 | | | | | " | | |
| | 390 | 4 | 395 | 2 | | 96 | | | | | " | | |
| | 395 | 2 | 400 | 0 | | 97 | | | | | " | | |
| | 400 | 0 | 404 | 8 | | 98 | | | | | " | | |
| | 404 | 8 | 409 | 7 | | 99 | | | | | " | | |
| | 409 | 7 | 414 | 6 | 5010 | 1010 | | | | | " | | |

DDH F-9.0-24
2 8CURRAGH RESOURCES INC.
Lithologic LogPage 3Date: 12/02/90 Logged By: P. Hedwidge

| Case | From | | To | | Recov. | No. | Unit | Description | | |
|------|------|------|----|------|--------|-----|------|--|----|----|
| | 10 | 14 | 18 | 20 | | | | | 22 | 24 |
| | | 0 | | 11.0 | 0 | | 01 | Casing - No return | | |
| | | 11.0 | | 26.7 | 2 | | 02 | 1.D.0 ± BxA ± 8 | | |
| | | | | | | | | PS ₂ 55-80° CAX - local folding & weak brecciation where PS ₂ is // or sub // to CAX. PS ₂ inconsistent on small scale. | | |
| | | | | | | | | TOI - 30.0 - v. strongly broken & rubble - RQD = 0% | | |
| | | | | | | | | 16.0-17.5 - 4ft lost; 17.5-30.0 - recovery 0.15. | | |
| | | | | | | | | 30.0-109 - strongly broken - Good recovery RQD = 20% | | |
| | | | | | | | | Gauged at 49.5-49.8, 51.5-53.0, 54.0-54.5, 71.5-73.0, 77.8-78.0, 105.5-107.5 - Core folded (// CAX) at 80.0-83.0 | | |
| | | | | | | | | 109-149.0 - folded, gauged & brecciated over 50% of interval. RQD = 20% | | |
| | | | | | | | | 149.0-234.7 mod. broken RQD = 60% | | |
| | | | | | | | | Gauged at 191.0-191.2, 196.5-197.5, 199.0-200.0, 207.0-207.5 | | |
| | | | | | | | | 210.5-211.0. | | |
| | | | | | | | | 234.7-261.2 - 40% zone, is gauged, folded & brecciated - RQD = 40% | | |
| | | | | | | | | Good recovery. | | |
| | | | | | | | | 261.2 - EOI - Good recovery, weakly broken RQD = 80% | | |
| | | | | | | | | Lower contact gradational PS ₂ = 75-80 | | |
| | | 26.7 | 2 | 27.8 | 9 | | 03 | 1.D.2 | | |
| | | | | | | | | PS ₂ 70-80° CAX. Good recovery. RQD = 70% | | |
| | | | | | | | | Lower contact sharp but gauged on next unit. | | |
| | | 27.8 | 9 | 32.5 | 4 | | 04 | 1.D.4 ± BxA | | |
| | | | | | | | | Slightly lighter in colour due to sericite. PS ₂ 50-85° CAX. Brecciated | | |

| Core | From | To | Recov. | No. | Unit | Description | | | | | |
|------|-------|-------|--------|-----|----------|---|----|----|----|----|---|
| 1 | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 34 | 36 |
| | | | | | | | | | | | ± folded over 30% of unit. Gouged (usually brecciated) at TOI- 279.5, 293.9-297.7, 293.0-294.2. Lower contact gradational. RQD- 70% |
| | 325.4 | 327.0 | | 0.5 | 2A.0.0.0 | PS2 75° CAx - 80% black Gp bands, 15% qtz bands, 5% Py. No visible Sph/Gn. Lower contact sharp - brecciated on next unit Good recovery. This is borderline w/ IEI9 RQD - 60% | | | | | |
| | 327.0 | 330.2 | | 0.6 | 2A.0. | BXA Fault Rubble 10-15% Py - no visible Sph/Gn - lower contact sharp (marked by lack of rubble & bra) Good recovery - RQD 0% | | | | | |
| | 330.2 | 352.0 | | 0.7 | 2A.4. | PS2 irregular from 70-80 - folding ± local brecciation. 40% black Gp bands, 20% qtz 20% Py, 20% Sph/Gn bands ± blebs. Est Pb+Zn 10% Good recovery - Lower contact gouged (from 349.2- 350.2) ± qtz vein w/ 10% Gn ± 10% Py, 3-5% Sph from 350.2 - EOI) TOI- 343.0 - RQD - 80% 343.0 - EOI - RQD - 30% | | | | | |
| | 352.0 | 414.6 | | 0.8 | 2A.0. | Folded ± BXA Rock is folded throughout interval - brecciated locally. Fold nose (S20° CAx) at 386.0-401. PS2: 356.0-400; 369.0-580; 374.0-480; 384.0-380; 404.0-600; 402-EOI-25-60° CAx | | | | | |

CURRAGH RESOURCES INC.
Lithologic Log

| Core | From | | | To | | | Recov. | No. | Unit | Description | |
|------|------|----|----|------|----|----|--------|-----|------|-------------|--|
| | 10 | 14 | 18 | 20 | 22 | 24 | | | | | 26 |
| | | | | | | | | | | | TOI- 410.9 - weakly broken - RQD - 90% |
| | | | | | | | | | | | 410.9 - EOI - Fault gouge - RQD - 0% |
| | | | | | | | | | | | lower contact sharp, at 15° AX but gouged. |
| | | | | | | | | | | | 10% P ₂ , 5-8% sph/bn 20% gtz, 60-65% black gp bands. |
| | | | | | | | | | | | Est P ₆ +Zn 3-4% Good recovery |
| | 41.4 | 46 | | 45.9 | | | | 109 | 1.20 | | ± BXA |
| | | | | | | | | | | | TOI- 432.1 - 40% of core gouged RQD - 20% |
| | | | | | | | | | | | 432.1 - EOI - mod to strongly broken RQD - 40% |
| | | | | | | | | | | | Gouged at - 444.0-444.3, 445.4-445.5, 456.0-456.5 |
| | | | | | | | | | | | PS2 irregular & wavy (80° - 30° AX) Good recovery |
| | | | | | | | | | | | Brecciated over 10% of interval. |
| | | | | | | | | | | | 459.0 EOH |

DIAMOND DRILL CORE LOG

Date: 22/02/96

Hole Number: F-90-25

Reference Fabric Orientation Diagram:

Project: Faro U/G delineation

Location: Faro pit (Goat trail W)

Claim: _____

Mine
Terr. Plane
Co-ords.: 7719.148 N

14457.502 E

Grid
Co-ords: _____

Elevation: 3794.689

All symmetry determinations looking

Total Depth: 459'

_____ with _____ dipping

Inclination: -87° @ 045°

_____ with dip azimuth 045°.

Purpose: To delineate ore horizon in underground workings.

Reason hole Terminated: Drilled through ore horizon into waste rocks

Logged by: P. Ledwidge

Date(s) Logged: _____

Drilling Contractor: Advanced

Hole Cemented: No Steel down Hole: No

| Size | CORE From | To | Collar Cased and Capped: |
|-------|-----------|-------|--------------------------|
| BQ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |

Assay Lab: _____

Certificate No's: _____

Started: Feb 11 Completed: Feb 13

90F-25

DDH F-9.0-25
2 8

CURRAGH RESOURCES INC.

Page 1 of 1

Logged by P. Ledwidge

ASSAY LOG (SAMPLER'S COPY)

Date Feb 15/90 Sampled by P. Ledwidge

| CODE | FROM | | TO | | SAMPLE | | INTR. | | REC (m) | | UNIT | | DESCRIPTION |
|------|------|----|------|----|---------|----|-------|----|---------|----|--------|----|--------------------------------------|
| | 10 | 14 | 16 | 20 | 22 | 26 | 28 | 30 | 32 | 34 | 36 | 40 | |
| | 1374 | 9 | 1378 | 9 | 4810101 | | | | | | 2F761 | | ±1 (21734±9) 90/10% ^{40'} |
| | 1378 | 9 | 1383 | 3 | 012 | | | | | | 210101 | | I ⁹ 4.4' 2.42, 5.11, 4.03 |
| | 1383 | 3 | 1387 | 7 | 013 | | | | | | " | | 4.4' 2.29, 4.91, 28.7 |
| | 1387 | 7 | 1392 | 5 | 014 | | | | | | 2F761 | | 4.5' 5.77, 6.43, 67.1 |
| | 1392 | 5 | 1397 | 3 | 015 | | | | | | " | | 4.8' 5.05, 5.88, 56.5 |
| | 1397 | 3 | 1402 | 1 | 016 | | | | | | 2F761 | | (1F9) 92/05% ^{4.8'} |
| | 1402 | 1 | 1405 | 0 | 017 | | | | | | 2F761 | | 2.9' 5.54, 8.44, 67.0 |
| | 1405 | 0 | 1409 | 6 | 018 | | | | | | 2A01 | | (1F9) 90/10% |
| | 1409 | 6 | 1414 | 2 | 019 | | | | | | 2A01 | | |
| | 1414 | 2 | 1418 | 8 | 010 | | | | | | " | | |
| | 1418 | 8 | 1423 | 4 | 011 | | | | | | " | | |
| | 1423 | 4 | 1428 | 1 | 012 | | | | | | " | | |
| | 1428 | 1 | 1432 | 8 | 4810113 | | | | | | | | |

5.46
10.26
43.3

5.34
5.88
69.7

| Core | From | | | To | | | Recov. | | | | No. | Unit | Description |
|------|------|----|----|----|----|----|--------|----|----|----|-----|--------|---|
| | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 34 | | | |
| | | 10 | | 21 | 0 | | | | | | 101 | | Casing - No return |
| | | 21 | 0 | 31 | 1 | 0 | | | | | 102 | 1.D.01 | ± 8 PS2 - 24.0-206 - 65-70° CAX - 207-EOI 70-80° CAX |
| | | | | | | | | | | | | | 21.0-24 - Rubble 2ft lost → RQD - 0% |
| | | | | | | | | | | | | | 24.0-80.0 - Mod. broken - Good recovery → RQD - 50% |
| | | | | | | | | | | | | | - Gouged at: 37.0-37.1, 64.2-65.0, 69.3-69.8 |
| | | | | | | | | | | | | | 80.0-99.0 - 70% of core gouged & rubble - major fault RQD - 5% |
| | | | | | | | | | | | | | - Good recovery. |
| | | | | | | | | | | | | | 99.0-223.0 - mod. broken - Good recovery RQD - 60% |
| | | | | | | | | | | | | | - Gouged at: 114.0-114.5, 150.5-150.8, 167.5-169.0 |
| | | | | | | | | | | | | | 201-204 (intermittently) |
| | | | | | | | | | | | | | 223.0 - EOI - whly to mod. broken - Good recovery RQD - 80% |
| | | | | | | | | | | | | | Gouged at 234.0-234.5, 251.1-252.3 |
| | | | | | | | | | | | | | Lower contact gradational - 269-EOI - core gets gradually more carbonaceous. 5% barren qtz veins throughout unit. |
| | | 31 | 1 | 0 | 32 | 9 | 0 | | | | 103 | 1.D.02 | |
| | | | | | | | | | | | | | PS2 85-90° CAX - Core weakly broken - Good recovery |
| | | | | | | | | | | | | | Gouged at 320.8-321.0, 321.7-322.5. Lower contact gradational RQD - 90% |
| | | 32 | 9 | 0 | 37 | 4 | 9 | | | | 104 | 1.D.03 | |
| | | | | | | | | | | | | | PS2 - 75-80° CAX - Gouged at: 330.6-331.8, 333.7-333.3 |
| | | | | | | | | | | | | | 336.7-337.2, 350.0-350.3, 367.5-369.0 (intermittently) 371.5-372.7 |

| Core | From | | To | | Recov. | No. | Unit | Description | | |
|------|------|----|------|----|--------|-----|--------|---|----|----|
| | 10 | 14 | 18 | 20 | | | | | 22 | 24 |
| | | | | | | | | lower contact sharp but irregular. RQD - 70% | | |
| | | | | | | | | 5% qtz veins w 3-5% Py. Good recovery. | | |
| | 3,74 | 9 | 3,78 | 9 | | 05 | 2F,6 | ±1 (2H34 ± 9) 90/10 % | | |
| | | | | | | | | 65% Py, 10% Ba, 20% Gn ± Sph, 5% qtz. blebs | | |
| | | | | | | | | TOT - 375.3 - 60% Po, (reddish - contains sph/ln), 30% Py, 10% qtz, tr. Cpy | | |
| | | | | | | | | Total Est Pb+Zn - 10% Good recovery. RQD - 90% | | |
| | | | | | | | | lower contact sharp at 78° CAX | | |
| | 3,78 | 9 | 3,87 | 7 | | 06 | 2D,0 | ±9 | | |
| | | | | | | | | 40% poorly defined black graphitic bands, 30% grey/blue qtz, | | |
| | | | | | | | | 15% Sph ± Gn bands, 15% irregular Py patches, Tr - 1% Cpy | | |
| | | | | | | | | blebs - local pits Fe-carb veins w Sph, Gn, Cpy. | | |
| | | | | | | | | P52 75-80° CAX except at lower contact (336.3-337.7) | | |
| | | | | | | | | where P52 is wavy & CAX. Good recovery. RQD - 90% | | |
| | | | | | | | | lower contact gradational. | | |
| | 3,87 | 7 | 40,5 | 0 | | 07 | 2F,7,6 | (1F9) 98/02 % | | |
| | | | | | | | | 60% Py, 15-20% Sph/Gn, 5% Ba, 15-20% Po in irregular | | |
| | | | | | | | | patches or negligible quantities. Good recovery. | | |
| | | | | | | | | 401.5-401.9 - Goussé pistachio green metabasite lens w sulphide inclusions. | | |
| | | | | | | | | 402.5 - EOT - 30% Po - no Ba. | | |
| | | | | | | | | lower contact sharp P52 of next unit (58° CAX) | | |
| | | | | | | | | Est Pb+Zn 8-10% RQD - 80% | | |

CURRAGH RESOURCES INC.
Lithologic Log

| Code | From | To | Recov. | No. | Unit | Description | | | | | |
|------|-------|-------|--------|------|-------|---|----|----|----|----|----|
| 1 | 10 | 14 | 16 | 20 | 22 | 24 | 26 | 28 | 30 | 34 | 36 |
| | 405.0 | 432.8 | | 1018 | 2A10 | (1FO) 98/02 % | | | | | |
| | | | | | | 50% black graphitic bands, 30% qtz bands, 10-15% Py in blobs + stringers, 6-8% Sph±Gn stringers - TOI - 40% - 3 - 10-12% Sph±Gn - 40% - 3 - 40% - 8 - pistachio green + beige gossed metabasite band. PS2 - 60-65° CAx. Lower contact sharp + marked by gorge at 432.6-432.9. RQD - 70% Good recovery. Est Pb+Zn 3-4% | | | | | |
| | 432.8 | 459.0 | | | 1D101 | ±1 | | | | | |
| | | | | | | PS2 55-0° CAx - Unit is folded + PS2 is wavy throughout most of interval. 10-15% qtz veining which silicified adjacent host rock - Locally is similar to 2B0 but is alternating hard + soft on cm to dm scale. ≤ 2% Pb+Zn. 3-5% Py stringers. Gossed at 443.0-443.3. Qtz veins have 5% Pb, 5% Zn + locally 3-5% Asp. Good recovery. RQD - 80% | | | | | |
| | | | | | | 459.0 EOH | | | | | |

DIAMOND DRILL CORE LOG

Date: _____

Hole Number: F-90-26

Reference Fabric Orientation Diagram:

Project: Faro U/G Delineation

Location: Faro Pit (Goat trail W)

Section Claim: 129±000

mine Ferr. Plane Co-ords.: 7434.958 N

14833.239 E

Grid Co-ords: _____

Elevation: 3835.405

All symmetry determinations looking

Total Depth: 359.0

_____ with _____ dipping

Inclination: -69° @ 045

_____ with dip azimuth 045°.

Purpose: To delineate ore horizon in U/G workings.

Reason hole Terminated: Drilled through ore zone into waste rock.

Logged by: P. Hedwidge

Date(s) Logged: _____

Drilling Contractor: Advanced

Hole Cemented: no Steel down Hole: No

| Size | CORE From | To | Collar Cased and Capped: |
|-----------|-----------|-------|--------------------------|
| <u>BQ</u> | _____ | _____ | <u>No</u> |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |

Assay Lab: _____

Certificate No's: _____

Started: Feb 13 Completed: Feb 14

90F-26

CURRAGH RESOURCES INC.

DDH 90 F - 26
2 8

Diamond Drill Core Log

Date: 15/02/10

Logged By: P. Ledwidge

| Code | Drillhole | Elevation | Northing | | Easting | | Units (feet/metres) | R.F.E | | | | |
|------|-----------|-----------|----------|-----------|---------|----|---------------------|-------|----|----|----|----|
| I | 2 | 6 | 10 | 16 | 17 | 24 | 25 | 32 | 34 | 39 | 41 | 42 |
| T | 90 F - 26 | 3835.405 | 7434.958 | 14833.239 | | | FEET | | | | | |

| Code | Drillhole | Depth | Zenith Angle | True Azimuth | Comments | | | | | |
|------|-----------|-------|--------------|--------------|-------------------------|----|----|----|----|----|
| I | 2 | 8 | 10 | 14 | 22 | 26 | 28 | 32 | 34 | 56 |
| R | 90 F - 26 | 1000 | -6.9° | 045° | A, T, C, O, L, L, A, R, | | | | | |
| R | 90 F - 26 | 159 | -6.4° | 061° | | | | | | |
| R | 90 F - 26 | 1159 | -6.5° | 058° | | | | | | |
| R | 90 F - 26 | 259 | -6.5° | 57.5° | | | | | | |
| R | 90 F - 26 | 359 | -6.3° | 55.5° | | | | | | |
| R | 90 F - 26 | 4 | . | . | | | | | | |
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| Code | Drillhole | Comments, Errant Remarks, Snivellings and / or Lewd Suggestions | | |
|------|-----------|---|----|----|
| I | 2 | 8 | 10 | 56 |
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DDH F-90-26
2 8

CURRAGH RESOURCES INC.

Page 1 of 1

Logged by P. Ledwidge

ASSAY LOG (SAMPLER'S COPY)

Date 15/02/90

Sampled by P. Ledwidge

| CODE | FROM | | TO | | SAMPLE | | INTR. | | REC (m) | UNIT | DESCRIPTION | | |
|------|------|----|------|----|--------|-----|-------|----|------------|------|-------------|----|-----------------------|
| | 10 | 14 | 16 | 20 | 22 | 26 | 28 | 30 | 32 | 34 | | 36 | 40 |
| | 2179 | 1 | 2183 | 5 | 4810 | 114 | | | | | 2A01 | | ± 9 |
| | 2183 | 5 | 2187 | 8 | | 115 | | | | | " | | |
| | 2187 | 8 | 2911 | 6 | | 116 | | | | | 2E421 | | 3.8' 5.31, 6.50, 48.5 |
| | 2911 | 6 | 2916 | 6 | | 117 | | | | | 2A01 | | ± BXA ± Faulted |
| | 2916 | 6 | 3101 | 6 | 4810 | 118 | | | | | " | | |
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| Cofc | From | | | | To | | | | Recov. | No. | Unit | Description |
|------|------|-----|----|----|----|-----|----|----|--------|-----|--------|---|
| | 10 | 14 | 18 | 22 | 26 | 30 | 34 | 38 | | | | |
| | | 0 | | ? | 26 | 0 | | | | 101 | | Casing - No return |
| | | ? | 26 | 0 | | 118 | 18 | 0 | | 102 | 110101 | ± 8 PS2 - 27.0 - - 80-90° CAX |
| | | | | | | | | | | | | 26.0 - 27.0 - Rubby - 0.5ft + lost RQD - 0% |
| | | | | | | | | | | | | 27.0 - 134.0 - Mod. broken - Good recovery RQD - 50% |
| | | | | | | | | | | | | Gauged at 29.7 - 32.5 (intermittently), 69.6 - 69.8, 116.0 - 118.0 (intermittently), 125.1 - 125.6 |
| | | | | | | | | | | | | 134.0 - 188.0 - wkly to mod. broken - Good recovery RQD - 60% |
| | | | | | | | | | | | | Gauged at: 183.2 - 183.5, lower contact sharp - marked by numerous gorge zones |
| | | 118 | 18 | 0 | | 207 | 7 | 3 | | 103 | 110101 | BXA ± 04 ± 8 |
| | | | | | | | | | | | | Brecciated & folded throughout interval - slightly stronger sericite makes rocks lighter green/grey. Gauged at TOI - 188.7 |
| | | | | | | | | | | | | 196.0 - 197.2 (intermittently), 198.5 - 199.4, 202.5 - 204.0, 206.5 - 207.5 |
| | | | | | | | | | | | | Lower contact marked by less brecciation + less gorge. RQD - 30% |
| | | 207 | 7 | 3 | | 279 | 9 | 1 | | 104 | 110101 | ± BXA ± 8 ± 4 |
| | | | | | | | | | | | | PS2 ranges from 45 - 85° CAX & can change on cm to dm scale. Brecciated locally. Gauged at 253.0 - 254.0, |
| | | | | | | | | | | | | 254.5 - 256.0, 257.5 - 258.0, 268.3 - 268.6, 275.4 - 278.0 |
| | | | | | | | | | | | | Lower contact sharp at 85° CAX // PS2. Good recovery RQD - 70% |

| Core | From | | To | | Recov. | | No. | | Unit | Description |
|------|------|----|-----|----|--------|----|-----|----|-----------|--|
| | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | | |
| | 279 | 1 | 287 | 8 | | | | | 105 2A10 | ±9 TOI - 280.3 - 70% Gp bands, 25% qtz bands, 5% Py stringers, tr. Cpg. 280.3 - 286.0 - 25% Gp bands, 35% qtz bands, 30% Py bands, 5-8% Sph/ln stringers, 1-2% Cpg blebs. 286.0 - EOI - 25% Gp bands, 35% qtz bands, 10% Py bands, 20% Sph/ln, tr - 1% Cpg. lower contact sharp & // P ₂ at 85° CAX P ₂ 70-85° CAX - Good recovery. Est Pb+Zn = 4% RQD = 50% |
| | 287 | 8 | 291 | 6 | | | | | 106 2E421 | 80% v.f.g. dark Gn ± Sph bearing Py, 15% c.g. echinoid Py, 5% qtz blebs, tr. Cpg blebs - Est Pb+Zn 5-10% - Good recovery. Lower contact sharp & // P ₂ of next unit @ 78° CAX. Core rubble at 288.1 - 288.7 RQD = 20% |
| | 291 | 6 | 301 | 6 | | | | | 107 2A0 | ± BXA ± Faulted 30% Gp bands (bleached), 50% qtz, 12-15% Py, 5-8% Sph/ln. P ₂ - 75-85° CAX - 299.3 - EOI - Gorged & brecciated 52% Pb+Zn Fault - explains lack of further 210. Lower contact sharp but gorged. Good recovery. Est Pb+Zn 3-4% TOI - 299.3 - → RQD = 50% 299.3 - EOI - → RQD = 0% |
| | 301 | 6 | 315 | 0 | | | | | 108 1D101 | ± BXA ± Faulted P ₂ - 55-60° locally folded & locally brecciated. |

CURRAGH RESOURCES INC.
Lithologic Log

Date: 15/02/90 Logged By: PL

| Code | From | | To | | Recov. | | | | No. | | | | Unit | Description |
|------|------|----|----|----|--------|----|----|----|-----|----|----|--|------|---|
| | 10 | 14 | 18 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | | | |
| | | | | | | | | | | | | | | TOT- 305.5 - Fouged - Fault zone - P52 folded where observed. Good recoveries → RQD - 10% |
| | | | | | | | | | | | | | | 305.5 - EOI - wkly to med. broken - Good recovery RQD - 60% - Fouged at 321.5 - 322.2, 334.5 - 335.8 (intermittently), |
| | | | | | | | | | | | | | | 359.0 EOH |
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DIAMOND DRILL CORE LOG

Date: 22/02/90

LF-107

Hole Number: F-90-27

Reference Fabric Orientation Diagram:

Project: Faro U/G. delineation

Location: Faro pit (Goat trail W)

Claim: _____

Min. ~~Terr.~~ Plane
Co-ords.: 7236.271 N

14907.478 E

Grid
Co-ords: _____

Elevation: 3856.075

All symmetry determinations looking

Total Depth: 404.0 ft

_____ with _____ dipping

Inclination: -86° @ 225°

_____ with dip azimuth 225°.

Purpose: To delineate ore horizon in underground workings.

Reason hole Terminated: Drilled through ore horizon into waste rock

Logged by: P. Led widge

Date(s) Logged: _____

Drilling Contractor: Advanced

| | | | |
|-----------|--------------|-------|---------------------------------------|
| Size | CORE From | To | Collar Cased and Capped: <u>No</u> |
| <u>BQ</u> | _____ | _____ | |

Hole Cemented: No Steel down Hole: No

Assay Lab: _____

Certificate No's: _____

Started: Feb 14 Completed: Feb 16

CURRAGH RESOURCES INC.

DDH F-9.0-27
2 8

Diamond Drill Core Log

Date: 15/03/90 Logged By: P. Ladanyi

| Code | Drillhole | Elevation | Northing | Easting | Units (feet/metres) | R.F.E |
|------|-----------|-----------|----------|---------|---------------------|-------|
| I | 2 | 8 | 10 16 17 | 24 25 | 32 34 39 | 41 42 |
| T | | | | | | |

| Code | Drillhole | Depth | Zenith Angle | True Azimuth | Comments | | | | | |
|------|-----------|-------|--------------|--------------|------------------------|----|----|----|----|----|
| I | 2 | 8 | 10 | 14 | 22 | 26 | 28 | 32 | 34 | 56 |
| R | | 10.4 | 86 | | A, T, C, O, L, L, A, R | | | | | |
| R | | 12.0 | 89 | | | | | | | |
| R | | 13.0 | 89 | | | | | | | |
| R | | 14.0 | 89 | | | | | | | |
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| Code | Drillhole | Comments, Errant Remarks, Snivellings and / or Lewd Suggestions | | |
|------|-----------|---|----|----|
| I | 2 | 8 | 10 | 56 |
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DDH F-9,0-27
₂ ₈

CURRAGH RESOURCES INC.

Page 1 of 1Logged by P. Hedwidge

ASSAY LOG (SAMPLER'S COPY)

Date _____

Sampled by P. Hedwidge

| CODE | FROM | | TO | | SAMPLE | | | INTR. | | REC (m) | | UNIT | | DESCRIPTION |
|------|-------|----|-------|----|--------|----|----|-------|----|------------|--------|------|-----------------------------|-------------|
| | 10 | 14 | 16 | 20 | 22 | 26 | 28 | 30 | 32 | 34 | 36 | 40 | 42 | |
| | 13650 | | 13683 | | 480119 | | | | | | 21A41 | | ±BXA 3.5' 4.10, 10.62, 20.3 | |
| | 13809 | | 13845 | | 480210 | | | | | | 21E741 | | BXA | |
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| Case | From | | | To | | | Recov. | No. | Unit | Description | |
|------|------|----|----|-----|----|----|--------|-----|------|-------------|---|
| | 10 | 14 | 18 | 20 | 22 | 24 | | | | | 26 |
| | | 10 | | 20 | 0 | | | 01 | | | Casing - No return. |
| | | 20 | | 336 | 3 | | | 02 | 110 | | ±8 (102-91) (1F0) 89/10/1% |
| | | | | | | | | | | | PS2 - 24.0 - 54°, 39.0 - 64°, 57.0 - 83°, 74.0 - 60°, 97.0 - 52° |
| | | | | | | | | | | | 119.0 - 62°, 139.0 - 69°, 159.0 - 62°, 179.0 - 68°, 199.0 - 67°, |
| | | | | | | | | | | | 219.0 - 336.3 80-85° CAx |
| | | | | | | | | | | | TUI- 84.0 RQD- 60% |
| | | | | | | | | | | | Gouged at 58.0-58.5; 61.3-61.5 |
| | | | | | | | | | | | 84.0 - 144.0 - 15-20% small gouge zones → RQD 30% |
| | | | | | | | | | | | 144.0 - 174.0 = mod. broken → RQD - 70% |
| | | | | | | | | | | | - Gouged at 165.0-165.7 |
| | | | | | | | | | | | 174.0-336.3 - mod. broken RQD- 60% |
| | | | | | | | | | | | Gouged at 184.5-186.0 (intermittently), 195.5-196.5, |
| | | | | | | | | | | | 210.5-214.5 (intermittently), 215.0-216.5, 226.5-228.0, |
| | | | | | | | | | | | 246.0-247.5, 323.5-224.0 |
| | | | | | | | | | | | Metabasite lenses at 79.5-81 (Upper contact sharp // PS2 at 62°, |
| | | | | | | | | | | | lower contact sharp at 22° CAx); 102.5-104.5 (upper contact |
| | | | | | | | | | | | gradational, lower contact sharp but gouged - Rock is mod. brecciated |
| | | | | | | | | | | | in this lens) |
| | | | | | | | | | | | 87.0-124.0 - Intermittent (60%) lenses of darker more |
| | | | | | | | | | | | carbonaceous schist (102-91) w 2-3% Py. Also lenses throughout unit |
| | | | | | | | | | | | Good recovery throughout unit. lower contact gradational |

| Core | From | | To | | Recov. | No. | Unit | Description |
|------|------|----|------|----|--------|-----|------|---|
| | 10 | 14 | 18 | 22 | | | | |
| | 3316 | 3 | 3650 | | | 103 | 1D14 | |
| | | | | | | | | PS ₂ 70-80° CAX - Core is gouged at: TUI- 338.1, 3590- 363.7 (80% gouged) Qtz veins w/ 10% Pb, 1% Cu at 337.1-337.3, 354.8-355.9, 356.8-357.1 lower contact is sharp + // PS ₂ at 80° CAX. Good recovery throughout interval. RQD - 60% |
| | 3650 | | 3683 | 3 | | 104 | 2A14 | ± BXA |
| | | | | | | | | PS ₂ wavy + irregular between 45°-80° CAX 30% Qtz bands, 15% Gp bands, 30% Pb, 25% sph/Gr Good recovery. Est Pb + Zn 12-15% - Core is weakly brecciated. RQD - 80% Lower contact sharp at 48° CAX Note: Gouged zones (faults) in units 03 + 05 seem to explain paucity of sulphide rich zones |
| | 3683 | | 4040 | 0 | | 105 | 1D14 | ± 9 ± BXA (2E74 BXA) 90/10 % |
| | | | | | | | | Interval is folded + brecciated locally. PS ₂ ranges from 0 to 85° CAX. 2-3% diss Pb; 10% Lio blebs. 380.9-384.5 - Strongly brecciated - has Qtz flooding into conatupper + lower 6" + have 60% lenses of 2E74 (8-10% Pb/Zn) mixed in w/ 1D444 (almost pure sericite) 1D444 in this area is weakly gouged. |

DDH F-9.0-0.3
2 8

CURRAGH RESOURCES INC.

Lithologic Log

Page 5Date: 15/01/90 Logged By: PL

| 3 | From | | To | | Recov. | | No. | | Unit | | Description |
|---|------|----|-----|----|--------|----|-----|-----|------|---------------|---|
| | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 34 | |
| | 9.0 | 5 | 1.0 | 26 | | | 107 | 215 | 18 | (2D0) | 95/5% |
| | | | | | | | | | | | Hard pyritic, siliceous Mt bearing, massive sulphides. 80-85% Py, 10-15% blue/grey Qtz, 5-8% black ≤ 2mm Mt blebs streaked 2:1 // P&S. Locally have no Mt. No apparent base metals (probably 2-3% sph/Gr associated w Py but not visible). Locally have bands of pyritic quartzite w minor sph/Gr & Cpy. Lower contact sharp - marked by disappearance of Mt. Est Pb+Zn - 1-2% |
| | 1.0 | 26 | 1.1 | 44 | | | 108 | 213 | 31 | BXA ± 4±9 | (2F4) 90/10% |
| | | | | | | | | | | | Hard pyritic, w/ky sph/Gr bearing, mod brecciated quartzite. 60-70% Py, 30-40% blue/grey Qtz. Qtz contains minor (3-4%) ref. sph/Gr. 1% Cpy blebs. Locally rock is more massive & contains irregular bands of brecciated fine high grade massive sulphides w up to 25% sph/Gr. Interval is weakly to mod. broken - Good recovery. Est Pb+Zn 4-5% Lower contact sharp but irregular. |
| | 1.1 | 44 | 1.1 | 76 | | | 109 | 110 | 11 | BXA (2D3 BXA) | Brecciated transitional unit. |
| | | | | | | | | | | | Hard siliceous v. strongly brecciated unit. This |

| Cds | From | | To | | Recov. | | No. | | Unit | | Description |
|-----|------|-----|-----|-----|--------|----|-----|----|------|-------|--|
| | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 34 | |
| | | | | | | | | | | | is the contact zone between units 8 + 10. Diorite has penetrated into quartzite & has been v. strongly brecciated. Local carbonaceous black fragments, pyritic fragments. Rest is diorite & quartzite. Lower contact gradational - grades into pure diorite. Weakly broken - Good recovery. ~ 10% Py 2-3% Spl/brn fragments Est Pb+Zn 1-2% Similar to unit 5 |
| | 117 | 118 | 128 | 133 | | | | | 110 | 101E2 | Dyite |
| | | | | | | | | | | | Same diorite as unit 4 - TOT-119.5 is aphanitic porphyritic - chill margin. Weakly broken - good recovery. Lower contact sharp |
| | | | | | | | | | | | Note: Entire while may be a large fold - lithologic sequences seem to repeat themselves in reverse - little PS2 evidence to back this up. |
| | 128 | 133 | 133 | 130 | | | | | 111 | 21D3 | BxA (10E BxA) Brecciated mixed unit. |
| | | | | | | | | | | | Hard pyritic, v. strongly brecciated quartzite & diorite. 50% Py - rest is weathered to non weathered diorite & qtz. Contact unit - which has been silicified & sulphidized. Lower contact sharp but possibly missing. Mod. broken - good recovery. |

| Code | From | To | Recov. | No. | Unit | Description | | | | | | |
|------|-------|-------|--------|-----|-------|--|----|----|----|----|----|--|
| 1 | 10 | 14 | 16 | 20 | 22 | 24 | 26 | 28 | 30 | 34 | 36 | |
| | 11330 | 11600 | | 112 | 1D194 | ± 11,44 ± BxA | | | | | | |
| | | | | | | Unit is borderline w 2A4. Hard silicified, to very strongly silicified light to dark grey, carbonaceous, pyritic, Sph/Gn bearing schist. P52 defined by 25-30% black carbonaceous laminations + 60-70% white silicified sericite + qtz/feld' laminations - 8-10% Pg in irregular bands + stringers - 5-8% muscov sph ± Gn stringers - Core changes to light grey when v-strongly silicified + sericitized - local barren qtz veins. 1% pinks subhedral < 0.5cm garnets locally. Core very strongly brecciated over 40% of interval. When brecciated have higher Pg + Sph/Gn content (8-10% Sph/Gn, 10-15% Pg). Core strongly broken 133-134 - 0.5ft lost; 154-159 - 2ft lost; Rest of recovery grade local gouge zones (carbonaceous lost). Strongly brecciated areas: 153-159 + local smaller areas. Est Pb + Zn 4-5% | | | | | | |
| | 11610 | 11619 | | | 1D194 | ± 9 (1D194) 80/20% | | | | | | |
| | | | | | | Same as above unit but very strongly sericitized + soft + beige - local lense of dark grey silicified schist as above. 1-2% Pg throughout + local Sph/Gn stringers. | | | | | | |
| | | | | | | 169 EOH | | | | | | |

DIAMOND DRILL CORE LOG

Date: Jan 14 / 1990

90F-04

Hole Number: DPH 90F-04

Reference Fabric Orientation Diagram:

Project: Favo Fill in Drilling

Location: "S" Phase Favo Pit

Section Claim: 124 Fooo

Mine Ferr. Plane Co-ords.: 8667.394 N

21968.64

15116.902 E

Grid Co-ords: _____

Elevation: 3586.215

All symmetry determinations looking

Total Depth: 218'

_____ with _____ dipping

Inclination: 650° Az 045°

_____ with dip azimuth _____.

Purpose: To better delineate "E" Phase ore.

Reason hole Terminated: Footwall. drilled 20'

Logged by: Peter Ledwidge

Date(s) Logged: _____

Drilling Contractor: Advanced

Hole Cemented: No Steel down Hole: No

| Size | CORE From | To | Collar Cased and Capped: <u>No</u> |
|------------|------------|-------------|------------------------------------|
| <u>BWL</u> | <u>0</u> | <u>45</u> | |
| <u>BO</u> | <u>45'</u> | <u>218'</u> | |

Assay Lab: Northern Analytical

Certificate No's: _____

Started: Jan 14 Completed: Jan 15

DDH F-90-04
2 8

CURRAGH RESOURCES INC.
Structural Log

Page 1 of 1

Date: 17/01/90 Logged By: P. Ledwidge

| Code | From | | To | | Feature | SYM | S ₀ | | S ₁ | | S ₂ | | Description | |
|------|------|----|------|----|---------|-----|----------------|---------|----------------|---------|----------------|---------|-------------|--|
| | 10 | 14 | 16 | 20 | | | Dip | Direct. | Dip | Direct. | Dip | Direct. | | |
| 1 | 10 | 14 | 16 | 20 | 22 | 24 | 26 | 28 | 32 | 34 | 38 | 40 | 44 | |
| | 1110 | 0 | 162 | | P1S12 | | | | | | | | | folded & fault gouged - mostly 0° P1S2 locally as high as 60 but transitions gouged. |
| | | | 165 | 0 | P1S12 | | | | | | | 85 | | P1S2 - compositional laminations |
| | | | 1140 | | P1S12 | | | | | | | 67 | | Weak Mt foliation |
| | | | 1147 | | P1S12 | | | | | | | 76 | | P1S2 - compositional laminations |
| | | | 1159 | | P1S12 | | | | | | | 74 | | " |
| | | | 1172 | | P1S12 | | | | | | | 72 | | " |
| | | | 1195 | | P1S12 | | | | | | | 52 | | " |
| | 1195 | 0 | 1209 | 5 | P1S12 | | | | | | | | | S2-0 - folded & gouged & brecciated. |
| | | | 1211 | 0 | P1S12 | | | | | | | 37 | | P1S2 comp lam. |
| | | | 1218 | 0 | P1S12 | | | | | | | 49 | | " |

ASSAY LOG (SAMPLER'S COPY)

Date 17/01/90

Sampled by P. Hedwidge

| CODE | FROM | | TO | | SAMPLE | | INTR. | | REC (m) | | UNIT | | DESCRIPTION |
|------|------|----|-----|----|--------|----|-------|----|---------|----|------|---------------------------|----------------------|
| | 10 | 14 | 16 | 20 | 22 | 26 | 28 | 30 | 32 | 34 | 36 | 40 | |
| | 169 | 0 | 173 | 0 | 49 | 53 | 19 | | | | 216 | 314 | 11 ± 7 V. high grade |
| | 173 | 0 | 178 | 0 | | 4 | 10 | | | | 11 | F0 ± 4 (2F4) 70/30 % | |
| | 178 | 0 | 180 | 0 | | 4 | 1 | | | | 21 | F4 ± 1 F0 V. high grade | |
| | 180 | 0 | 183 | 2 | | 4 | 2 | | | | 216 | 413 | 11 Very high grade |
| | 183 | 2 | 186 | 5 | | 4 | 3 | | | | " | " | " |
| | 186 | 5 | 191 | 5 | | 4 | 4 | | | | 210 | 01 (2F4) 98/2 % | |
| | 191 | 5 | 196 | 5 | | 4 | 5 | | | | " | " | " |
| | 196 | 5 | 110 | 15 | | 4 | 6 | | | | " | " | " |
| | 110 | 15 | 110 | 65 | | 4 | 7 | | | | " | " | " |
| | 110 | 65 | 111 | 15 | | 4 | 8 | | | | " | " | " |
| | 111 | 15 | 111 | 65 | | 4 | 9 | | | | " | " | " |
| | 111 | 65 | 112 | 15 | | 5 | 0 | | | | " | " | " |
| | 112 | 15 | 112 | 66 | | 5 | 1 | | | | " | " | " |
| | 112 | 66 | 113 | 17 | | 5 | 2 | | | | 215 | 74 ± 6 ± 1 ± 8 ± 9 | |
| | 113 | 17 | 113 | 68 | | 5 | 3 | | | | " | " | " |
| | 113 | 68 | 114 | 20 | | 5 | 4 | | | | " | " | " |
| | 114 | 20 | 114 | 64 | | 5 | 5 | | | | 210 | 01 ± 9 (1C81) 90/10 % | |
| | 114 | 64 | 115 | 08 | | 5 | 6 | | | | " | " | " |
| | 115 | 08 | 115 | 52 | | 5 | 7 | | | | " | " | " |
| | 115 | 52 | 115 | 95 | | 5 | 8 | | | | " | " | " |
| | 115 | 95 | 116 | 54 | | 5 | 9 | | | | 215 | 81 ± 4, ± 1 (2F4) 90/10 % | |
| | 116 | 54 | 117 | 09 | | 6 | 10 | | | | 210 | 01 ± 8 | |
| | 117 | 09 | 117 | 64 | | 6 | 11 | | | | " | " | " |
| | 117 | 64 | 118 | 04 | | 6 | 12 | | | | 210 | 51 | " |
| | 118 | 04 | 118 | 43 | | 6 | 13 | | | | " | " | " |

Next Page.

ASSAY LOG (SAMPLER'S COPY) Date 17/01/90 Sampled by P. Ledwidge

| CODE | FROM | | TO | | SAMPLE | | INTR. | | REC (m) | | UNIT | | DESCRIPTION |
|------|------|----|-----|----|--------|----|-------|----|---------|----|------|-----|------------------|
| | 10 | 14 | 16 | 20 | 22 | 26 | 28 | 30 | 32 | 34 | 36 | 40 | |
| | 118 | 43 | 118 | 92 | | 64 | | | | | 2E | 141 | BxA (2F4) 70/30% |
| | 118 | 92 | 119 | 40 | | 65 | | | | | " | | " |
| | 120 | 95 | 121 | 37 | | 66 | | | | | 1G | 14 | |
| | 121 | 37 | 121 | 80 | 49 | 56 | 7 | | | | " | | |

Lithologic Log

Date: 15/01/90 Logged By: PL

| Core | From | | To | | Recov. | No. | Unit | Description | |
|------|------|----|-----|----|--------|-----|------|--|----|
| | 10 | 14 | 18 | 22 | | | | | 24 |
| | 510 | 9 | 549 | 9 | | 105 | 2101 | BXA | |
| | | | | | | | | Transitional unit to following massive sulphides. Hard to soft strongly brecciated pyritic, sph/brn bearing, quartzite. 60-70% f.g. Py, 30-40% interstitial qtz + talcose mud to breccia fragments 5-8% grey G.M. & maroon sph as tiny specks & local blebs. Lower contact sharp - marked by lower qtz %age & appearance of Mt. Interval is mod - strongly broken - good recovery. Talcose mud is similar & may be sawed 10E. Est Pb+Zn - 4-5% | |
| | 549 | 9 | 910 | 5 | | 106 | 2151 | ±BXA, ±8 minor (2F4) (2D4) 94/5/1% | |
| | | | | | | | | Hard, locally brecciated, pyritic, siliceous, moderately sph/brn bearing massive sulphides. At upper contact have 10cm with 3% Mt xals - Mt not found elsewhere in interval. 80-85% Py, 10-20% white to blue/grey qtz - 7-8% sph/brn as aphanitic part of massive dark brassy Py & locally as maroon sph/brn rich areas in cubical Py - (similar to bullet lens). Locally where rock is mod brecciated have as much as 30% qtz. At 77.0 have 10cm fragment of grey/blue qtzite w Py & maroon sph lamination. Entire interval is mod to strongly broken. Est Pb+Zn - 3-4- 59-64 - 1ft lost, Rest of recovery good. | |

DIAMOND DRILL CORE LOG

Date: Jan 10 1990

Hole Number: DDH 90F-01

Reference Fabric Orientation Diagram:

Project: Favo Fill in Drilling

Location: Favo Pit "S" Phase

Section Claim: 125 + 000

Mine Terr. Plane Co-ords.: 8560.716 N

15164.139 E

Grid Co-ords: _____

Elevation: 3588.816

All symmetry determinations looking

Total Depth: 169'

_____ with _____ dipping

Inclination: 60° 045° Az

_____ with dip azimuth _____.

Purpose: To better delineate South Phase ore.

Reason hole Terminated: Foot wall encountered

Logged by: P. Kendrick

Date(s) Logged: _____

Drilling Contractor: Advanced Drilling

Hole Cemented: No Steel down Hole: No

| Size | CORE From | To |
|------|-----------|-----|
| BWL | 0 | 15 |
| RQ | 15 | 169 |

Collar Cased and Capped: _____

Assay Lab: Advanced Drilling

Certificate No's: _____

Started: Jan 9 Completed: Jan 10

90F-01

DDH F-9.0-.0.1
2 8

CURRAGH RESOURCES INC.

Page 1 of 1

Logged by R. Hedwidge

ASSAY LOG (SAMPLER'S COPY)

Date 10/01/90

Sampled by R. Hedwidge

| CODE | FROM | | TO | | SAMPLE | | INTR. | | REC (m) | | UNIT | | DESCRIPTION |
|------|------|----|------|----|--------|-----|-------|----|---------|----|--------|----|--------------|
| | 10 | 14 | 16 | 20 | 22 | 26 | 28 | 30 | 32 | 34 | 36 | 40 | |
| | 174 | 0 | 178 | 0 | 179 | 53 | | | | | 2E41 | | ±1 |
| | 178 | 0 | 183 | 1 | | 54 | | | | | 2E41 | | BxA |
| | 183 | 1 | 188 | 3 | | 55 | | | | | 2E8101 | | (200) 50/50% |
| | 188 | 3 | 193 | 5 | | 56 | | | | | " | | " |
| | 193 | 5 | 198 | 7 | | 57 | | | | | " | | " |
| | 198 | 7 | 1103 | 9 | | 58 | | | | | " | | " |
| | 1103 | 9 | 1109 | 1 | | 59 | | | | | " | | " |
| | 1109 | 1 | 1114 | 3 | | 60 | | | | | " | | " |
| | 1114 | 3 | 1118 | 1 | | 61 | | | | | 2C10 | | BxA ± 4 |
| | 1118 | 1 | 1122 | 0 | | 62 | | | | | " | | " |
| | 1122 | 0 | 1126 | 2 | | 63 | | | | | 2E81 | | ±4 ± 1 |
| | 1126 | 2 | 1130 | 5 | | 64 | | | | | " | | " |
| | 1130 | 5 | 1135 | 5 | | 65 | | | | | 2E41 | | ±BxA ± 1 ± 8 |
| | 1135 | 5 | 1140 | 6 | 179 | 166 | | | | | " | | " |

40

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40

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DDH F-90-01
2 8

CURRAGH RESOURCES INC. Structural Log

Date: 10/01/90 Logged By: P. Ledwidge

| Code | From | | | | To | | | | Feature | SYM | S ₀ | | S ₁ | | S ₂ | | Description |
|------|------|------|----|----|-----|----|----|-----------------|---------|-----|----------------|----|----------------|----|----------------|----|--|
| | 1 | 10 | 14 | 16 | 20 | 22 | 24 | 26 | | | 28 | 32 | 34 | 38 | 40 | 44 | |
| | | 1510 | 0 | | 174 | 0 | | PS ₂ | | | | | | | | | 85-0 - Brecciated - where PS ₂ visible, changes frequently |
| | | | | | 911 | 0 | | PS ₂ | | | | | 50 | | | | PS ₂ - compositional laminations |
| | | | | | 107 | 0 | | PS ₂ | | | | | 55 | | | | " |
| | | | | | 123 | 0 | | PS ₂ | | | | | 55 | | | | MT - foliation (stretch 2:1) |
| | | 140 | 6 | | 169 | 0 | | PS ₂ | | | | | | | | | 70-0 - folded - predominantly 0° - lithon locally. |
| | | | | | | | | | | | | | | | | | |
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| Code | From | To | Recov. | No. | Unit | Description | | | | | |
|------|------|----|--------|------|--------|-------------|----|----|----|----|--|
| 1 | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 34 | 36 |
| | 10 | 14 | | 1011 | | | | | | | Casing - No return |
| | 14 | 16 | | 1012 | 11D101 | | | | | | Gouged |
| | | | | | | | | | | | Gouged med grey mud - probably carbonaceous - only 0.5 ft recovered. |
| | 16 | 50 | | 1013 | 11D1E | | | | | | |
| | | | | | | | | | | | Hard, biotitic, light green speckled diorite dyke 30-40% med. g. sub to euhedral white feldspar, 5% f. to med. g. anhedral Qtz, 3-5% \leq 2mm bio biotites, 1-2% green amphibole needles up to 2cm long. Rest of rock is aphanitic to v. f.g. light green (chloritized or saussuritized) felsic matrix. Lower contact gradual as dyke brecciated following unit & penetrates it. TOI - 30 - faulted - gouged, rubble & v. strongly broken; 30 - EOE strongly broken - 1% v.f.g. by disseminated throughout. Good recovery throughout unit. |
| | 50 | 74 | | 1014 | 11D2 | | | | | | BXA \pm 10E |
| | | | | | | | | | | | Soft PS2 laminated, strongly brecciated, diorite fragment bearing, carbonaceous schist. Rock is composed of dark grey |

| Core No. | From | | To | | Recov. | | No. | | Unit | Description | |
|-------------|------|----|-----|----|--------|----|-----|----|------------|-------------|---|
| | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | | | 30 |
| | | | | | | | | | | | carbonaceous schist which is strongly brecciated & has been intruded by same diorite as previous unit. 25-30% angular to sub-angular diorite fragment - Fragments ophanitic to v.f.g. & are up to 10-15 cm long. locally where there are non-brecciated lenses, P ₂ is very shallow, - (sub-parallel to (AX)) lower contact sharp but broken & possibly missing. |
| | 774 | | 778 | 0 | | | | | Q5 21E141 | ±1 | Hard, brittle pyritic, sph/gn bearing weakly siliceous, non-foliated, massive sulphides - 85-90% f to med grained Py w̄ 7-8% interstitial maroon sph/gn. Core is dark brassy so may have more ophanitic sph/gn - ~5% rounded Qtz blebs. Core gouged locally & brittle through most of interval. 1 ft lost through interval. lower contact gouged. Est Pb+Zn 4-5% |
| | 778 | 0 | 833 | 1 | | | | | Q6 21E1411 | BXA | This unit is the same as above unit but is brecciated & has 15-20% angular Qtz fragments. Py is also brecciated into rounded to angular fragments - local massive Py lenses. Local very high grade maroon massive sulphide fragments - Also v.f.g. maroon sph/gn specks associated w̄ Qtz. Est Pb+Zn - 5-6% lower |

| Core No. | From | | To | | Recov. | | No. | | Unit | Description | |
|-------------|-------|----|-------|----|--------|----|-----|-----|---------|-------------|--|
| | 10 | 14 | 16 | 20 | 22 | 24 | 26 | 28 | | | 30 |
| | | | | | | | | | | | contact marked by appearance of Mt + more siliceous intervals. Core weakly to mod. broken - Good recovery. |
| | 8.31 | | 1.143 | | | | | 0.7 | 21E8011 | (2C0) | SU/50% |
| | | | | | | | | | | | Unit varies on a cm to dm scale between the two extremes. Rock ranges from massive Py w̄ 3-5% ≤ 1mm black Mt xals to, PS2 laminated quartzite. Quartzite is 60-70% white qtz w̄ 30-40% Py. Locally Mt defines weak foliation in massive sulphides. Local maroon interstitial sph/gn. Core is mod. broken w̄ local v-strongly broken zones. Local brecciated zones similar to unit 06. Good recovery Est Pb±Zn 2-3% Lower contact poorly defined but marked by brecciated non Mt bearing rocks. |
| | 1.143 | | 1.220 | | | | | 0.8 | 21C101 | BXA ± 4 | |
| | | | | | | | | | | | Hard, brecciated, locally PS2 laminated, pyritic, weakly sph/gn bearing, weakly Mt bearing quartzite. 60-65% f.g. Py, 25-30% blue grey qtz + 5-10% secondary white qtz infilling breccia fractured. Local Mt blebs - 5% sph/gn mixed in as v.f.g. specks in blue/grey qtz. Qtz bands defined PS2 locally. Possibly more sph/gn associated w̄ Py. Interval is strongly broken - good recovery. |

| 3 | From | | To | | Recov. | | No. | | Unit | | Description |
|---|-------|----|-------|----|--------|----|-----|-----|-------|----|--|
| | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 34 | |
| | | | | | | | | | | | Est Pb+Zn 4-5%. lower contact sharp but broken - Marked by reappearance of significant Mt + decrease in qtz |
| | 1,220 | | 1,305 | | | | | 109 | 2E181 | | ±4 ±1 |
| | | | | | | | | | | | Hard, pyritic, Mt bearing, weakly sph/ln bearing weakly siliceous massive sulphides. 85-90% fig. Py, 5-8% black angular ≤ 1mm Mt blebs - locally these weakly define P ₃₂ by their stretched nature. 5% irregular qtz. blebs 5-8% sph/ln or interstitial aphanitic maroon matter, interstitial to local med. g. Py. + dispersed in dark brassy Py throughout interval. Entire interval is strongly broken - Good recovery. lower contact gradational over 10cm - marked by brecciated qtz rich rocks. Est Pb+Zn - 3-4% |
| | 1,305 | | 1,406 | | | | | 110 | 2E141 | | ± BXA ± 1 ± 8 |
| | | | | | | | | | | | Hard, pyritic, sph/ln, locally brecciated + silicified, locally weakly Mt bearing, massive sulphides. Core is f to med. g. massive dark brassy sph/ln bearing Py. 50% of core is brecciated + has 30-40% qtz. In these brecciated areas can see local sph/ln specks. local Mt black blebs lower contact sharp but irregular last ft to lower contact is very high grade + has 40-50% maroon sph/ln. Overall est Pb+Zn - 7-8% |

| Core # | From | | To | | Recov. | | No. | | Unit | Description | |
|-----------|------|----|-----|----|--------|----|-----|----|------|-------------|--|
| | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | | | 30 |
| | | | | | | | | | | | Core is strongly broken + locally brittle + powdery |
| | 1,4 | 06 | 1,5 | 15 | | | | 11 | 1D41 | | + AXA Fault Zone |
| | | | | | | | | | | | Med hard, silicified, sericitized, PS2 laminated, pyritic, brecciated to folded carbonaceous, white + light grey schist. Core is composed of 40-50% light grey sericitized carbonaceous bands, 30-40% white qtz - either as bands or as secondary veining where brecciated. Brecciated over 50% of interval. Local lithons where ductile deformation occurred, 10-15% lg as v-f.g. laminations + also in qtz veined areas as blebs - Entire interval is v. strongly broken. PS2 ranges from steep to predominantly sub-parallel to CAX. No apparent base metals except minor sph/ln blebs at upper brecciated contact. Lower contact sharp but broken. Good recovery. S2 plane light grey + silver. (Unit friable + muddy - shear zone?) |
| | 1,5 | 15 | 1,5 | 62 | | | | 12 | 1D24 | | Med. hard, silicified, PS2 laminated, dark grey carbonaceous, garnetiferous, schist. 60-70% black carbonaceous laminations, 30-40% white qtz/feld laminations. 2-3% anhedral ≤ 2 mm pink garnets, 10% v-f.g. Py. PS2 sub-parallel to CAX + wavy. Core strongly broken - good recovery. Lower contact gradational |

DDH $\frac{9.0-0.1}{2}$ $\frac{8}{8}$

CURRAGH RESOURCES INC.

Lithologic Log

Page 8

Date: 10/01/90 Logged By: PL

| Core | From | | To | | Recov. | | No. | | Unit | | Description |
|------|------|----|------|----|--------|----|-----|----|-------|----|--|
| | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 34 | |
| | | | | | | | | | | | over 50cm as core becomes lighter grey & more silicified. S ₂ planes dark grey & shiny. |
| | 15.6 | 2 | 16.9 | 0 | | | | | 1D411 | | ± BXA Fault zone |
| | | | | | | | | | | | Same as unit 11. PS ₂ steep to sub-parallel. Core strongly broken - Good recovery. (This unit is friable & muddy even though it's silicified - shear zone?) |
| | | | | | | | | | | | 169 - EOH |

ASSAY LOG (SAMPLER'S COPY)

| CODE | FROM | | TO | | SAMPLE | | INTR. | | REC (m) | | UNIT | | DESCRIPTION |
|------|-------|----|-------|----|--------|-----|-------|----|---------|----|--------|----|---|
| | 10 | 14 | 16 | 20 | 22 | 26 | 28 | 30 | 32 | 34 | 36 | 40 | |
| | 121 | 5 | 1214 | 8 | 179 | 167 | | | | | 21G41 | | (1F0)(2A0-BxA) 40/30/30% |
| | 1214 | 8 | 1219 | 4 | 168 | | | | | | 21AH | | ± sericite locally |
| | 1219 | 4 | 1314 | 0 | 169 | | | | | | " | | " |
| | 1314 | 0 | 1318 | 6 | 170 | | | | | | " | | " |
| | 1318 | 6 | 1413 | 3 | 171 | | | | | | " | | " |
| | 1413 | 3 | 1418 | 0 | 172 | | | | | | " | | " |
| | 1418 | 0 | 1512 | 7 | 173 | | | | | | " | | " |
| | 1512 | 7 | 1517 | 3 | 174 | | | | | | 21F41 | | (2G4)(2E4)(2H4) 50/30/15/5% v. high grade |
| | 1517 | 3 | 1620 | | 175 | | | | | | | | |
| | 162 | | 1615 | 5 | 176 | | | | | | 21D41 | | ± 5 |
| | 1615 | 5 | 1619 | 0 | 177 | | | | | | " | | " |
| | 1619 | 0 | 1717 | 4 | 178 | | | | | | 21E101 | | ±4 ± BxA ±1 |
| | 1717 | 4 | 1717 | 8 | 179 | | | | | | " | | " + (2H4 ± 9) |
| | 1717 | 8 | 1812 | 2 | 180 | | | | | | " | | " + (2H4 ± 9)(1F0) |
| | 1812 | 2 | 1816 | 6 | 181 | | | | | | " | | " |
| | 1816 | 6 | 1911 | 0 | 182 | | | | | | " | | " |
| | 1911 | 0 | 1915 | 3 | 183 | | | | | | " | | " |
| | 1915 | 3 | 11010 | 1 | 184 | | | | | | 21E101 | | ±4 ± 8 ± 1 (2F4) 95/5% |
| | 11010 | 1 | 11014 | 9 | 185 | | | | | | " | | " |
| | 11014 | 9 | 11019 | 7 | 186 | | | | | | " | | " |
| | 11019 | 7 | 11114 | 5 | 187 | | | | | | " | | " |
| | 11114 | 5 | 11119 | 3 | 188 | | | | | | " | | " |
| | 11119 | 3 | 11214 | 0 | 189 | | | | | | " | | " |
| | 11214 | 0 | 11218 | 5 | 190 | | | | | | 21E101 | | ±1 ± 4 (2F4) 60/40% |
| | 11218 | 5 | 11313 | 0 | 191 | | | | | | " | | " |
| | 11313 | 0 | 11317 | 6 | 192 | | | | | | " | | " |
| | 11317 | 6 | 11412 | 2 | 193 | | | | | | " | | " |
| | 11412 | 2 | 11416 | 8 | 179 | 194 | | | | | " | | " |

Next Page

ASSAY LOG (SAMPLER'S COPY)

Date 12/11/90

Sampled by P. Hedwidge

| CODE | FROM | | TO | | SAMPLE | | INTR. | | REC (m) | | UNIT | | DESCRIPTION |
|------|------|----|------|----|--------|-----|-------|----|---------|----|---------|----|--------------------------|
| | 10 | 14 | 16 | 20 | 22 | 26 | 28 | 30 | 32 | 34 | 36 | 40 | |
| | 1146 | 8 | 1151 | 6 | 1799 | 5 | | | | | 2E01 | | ±8 ±1±4 (2F4) 95/5% |
| | 1151 | 6 | 1156 | 4 | | 916 | | | | | " | | " |
| | 1156 | 4 | 1161 | 2 | | 912 | | | | | " | | " |
| | 1161 | 2 | 1166 | 0 | | 918 | | | | | " | | " |
| | 1166 | 0 | 1170 | 8 | | 919 | | | | | " | | " |
| | 1170 | 8 | 1175 | 6 | 1801 | 010 | | | | | " | | " |
| | 1175 | 6 | 1180 | 4 | 4915 | 011 | | | | | " | | " |
| | 1180 | 4 | 1185 | 3 | | 012 | | | | | " | | " |
| | 1185 | 3 | 1190 | 0 | | 013 | | | | | 2E01 | | ±4 (2F4) 90/10% |
| | 1190 | 0 | 1194 | 7 | | 014 | | | | | " | | " |
| | 1194 | 7 | 1199 | 4 | | 015 | | | | | " | | " |
| | 1199 | 4 | 2014 | 2 | | 016 | | | | | " | | " |
| | 2014 | 2 | 2019 | 0 | | 017 | | | | | " | | " |
| | 2019 | | 2114 | 0 | | 018 | | | | | 2D15141 | | ± BXA (2H441 BXA) 90/10% |
| | 2114 | 0 | 2119 | 0 | | 019 | | | | | " | | " |
| | 2119 | 0 | 2214 | 0 | | 110 | | | | | " | | " |
| | 2214 | 0 | 2219 | 0 | | 111 | | | | | " | | " |
| | 2219 | 0 | 2314 | 0 | | 112 | | | | | " | | " |
| | 2314 | 0 | 2319 | 0 | | 113 | | | | | 2D15141 | | BXA |
| | 2319 | 0 | 2440 | | 4915 | 114 | | | | | " | | " |

| 33 | From | | To | | Recov. | | No. | | Unit | | Description |
|----|------|------|----|------|--------|----|-----|-----|---------|----|--|
| | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 34 | |
| | | 0 | | 17.5 | | | | 01 | | | Casing - No return |
| | | 17.5 | | 21.5 | | | | | | | Crushed Boulders. |
| | | | | | | | | | | | Mixed crushed boulders - graphitic silicified schist / diorite / quartz veins. |
| | | 21.5 | | 24.8 | | | | 102 | 216-141 | | (1FO) (2A0 - BXA) 40/30/30 % |
| | | | | | | | | | | | 1st sub-unit - (21.7-23.1) - Heavy, med soft, -baritic pyritic, Sph/Gn bearing, high grade, white, speckled, massive sulphides / sulphates. 50-60% white barite / quartz groundmass 20-25% f.to med. g. euhedral Py, 15-20% vitifig. maroon ± silice Sph/Gn. |
| | | | | | | | | | | | 2nd sub-unit - Strongly brecciated + quartz flooded black graphitic quartzite in Py. Similar to unit 3. V. strongly broken. |
| | | | | | | | | | | | 3rd sub-unit (23.7-20.1) Soft + gassed + weathered, P ₂ laminated, pistachio green metabasite. |
| | | | | | | | | | | | Entire interval is v. strongly broken except 21.0 - 19-24 - 2ft lost; Rest of recovery O.K. Est Pb + Zn - 4-5% |

| Core No. | From | | To | | Recov. | | No. | | Unit | Description |
|-------------|------|----|----|----|--------|----|-----|----|------|--|
| | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | | |
| | 12 | 14 | 15 | 22 | 24 | | 10 | 13 | 2A4 | ± sericite locally |
| | | | | | | | | | | Hard to med-hard P&S laminated blocks, graphitic, pyritic, Sph/Gn bearing, med to high grade quartzite. 70-75% black graphitic bands, 25-30% white qtz laminations. Many of the qtz laminations are P ₂ + Sph/Gn bearing. Overall, have 10% P ₂ + 10-12% Sph/Gn. Core is light grey, sericitized & softer locally. Local lithons observed in qtz bands. Core med to strongly brecciated. Est Pb+Zn-5-6% however contact sharp but core more silicified, sericitized & h. higher sulphide %age close to contact. 41.5-44 - 1ft lost - rest of recovery 0.1% (Rock is borderline w 1619) |
| | 15 | 17 | 16 | 20 | 24 | | 10 | 14 | 2F4 | (2G4) (2E4) (2H4) Very high grade 50/30/15/5 % |
| | | | | | | | | | | Highly mixed, high grade interval - various sub-units are intercalated on cm to dm scale. |
| | | | | | | | | | | 1 st sub-unit - Hard pyritic, Sph/Gn bearing high grade massive sulphides - 75-80% f. to med g. subdual P ₂ w 20-25 interstitial maroon Sph/Gn - locally have only 5-10% Sph/Gn. Locally is gouged to mud. |
| | | | | | | | | | | 2 nd sub-unit - Barroitic massive sulphide/sulphates - same as unit 2, sub-unit 1- |

| Core No. | From | | To | | Recov. | | No. | | Unit | | Description |
|-------------|------|----|------|----|--------|----|-----|------|------|----|--|
| | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 34 | |
| | | | | | | | | | | | 3rd sub-unit - Hard pyritic Gn ± Sph rich massive sulphides - Rocks is gray + brassy. High Gn content. Minor red tinge due to sph. Est Gn ± Sph - 18-20% |
| | | | | | | | | | | | 4th sub-unit - Local \leq 5cm red/brassy massive Po w Sph/Gn - very high grade noted by strong red colour! |
| | | | | | | | | | | | Entire interval is mod broken - Local brittle & muddy zones in ZE4. Very high grade - Est Pb+Zn 18-20% lower contact sharp but irregular, Good recovery. |
| | 6.20 | | 6.90 | | | | | 0.52 | 1014 | | ± 5 |
| | | | | | | | | | | | Hard, PS ₁ laminated, pyritic, Sph/Gn bearing quartzite. 60-70% white qtz bands, 15-20% fig. Py bands & irregular blebs, 12-15% v.f.g. maroon + grey, Sph/Gn lamination + disseminated throughout core. 3-5% dark grey poorly defined carbonaceous laminations which have been v. strongly silicified. Core mod. broken - Good recovery. Lower contact gradual over 20cm as rocks become massive sulphide - Occasional qtz vein w 10% sph/Gn - Est Pb+Zn 6-7% |
| | 6.90 | | 9.53 | | | | | 0.16 | 2101 | | ± 4 ± BxA ± 1 (2H4 ± 9) (1F0) 97/5/2 % |
| | | | | | | | | | | | Dominant - Hard, pyritic, weakly Sph/Gn bearing, weakly siliceous, locally brecciated massive sulphides. Core |

Lithologic Log

Date: 11/01/90 Logged By: PL

| Core No. | From | | To | | Recov. | | No. | | Unit | Description | |
|-------------|------|------|----|----|--------|----|-----|-----|------|-------------|---|
| | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | | | 30 |
| | | | | | | | | | | | is ~ 95% f.g. dark brassy, weakly sph/ln bearing Py, w 5% qtz or blebs are disseminated sparsely - locally is brecciated + qtz veined in these areas. |
| | | | | | | | | | | | 2 nd sub-unit - (77.1-78.8) Massive, red/brassy Py - similar to 4 th sub-unit of unit 4. High grade. Has 3-5% beige felsic < 2mm angular fragments - 1% Cap stringers. |
| | | | | | | | | | | | 3 rd sub-unit - (81.2-81.9) Grey on outside, soft, pistachio green on inside, metabasite lense. |
| | | | | | | | | | | | Entire interval is made to strongly broken - good recovery, lower contact marked by appearance of ZF4 lenses + MT. Est Pb+Zn 2-3% |
| | 953 | 1240 | | | | | | 107 | 2E10 | +4±8±1 | (ZF4) 95/5% |
| | | | | | | | | | | | Hard pyritic, weakly sph/ln bearing, locally siliceous, locally weakly MT bearing massive sulphides. 90-95% f.to med g. Py 5-6% interstitial maroon + grey Sph/ln, locally 2-3% MT xals. 3-5% disseminated qtz. Locally have areas w 10-15% qtz. blebs. local bulletshot facies lenses w 20-25% interstitial maroon Sph±Gn. lower contact - arbitrary. Marked by increase in ZF4. TOI - '109' - is strongly broken + have local rubble, powdery zones. 109-EOT - 70% rubble |

| Sec | From | | To | | Recov. | No. | | Unit | Description | |
|-----|------|----|-----|----|--------|-----|------|------|--|----|
| | 10 | 14 | 18 | 20 | | 22 | 24 | | | 26 |
| | | | | | | | | | powdery zones. Recovery good. Est Pb+Zn 4-5% | |
| | 1,2 | 40 | 1,4 | 68 | | 0,8 | 2,50 | | $\pm 1 \pm 4$ (2F4) 60/40 | |
| | | | | | | | | | Dominant - Same as unit 07 but no apparent local Mt. Lesser - Hard, pyritic, sph/gr bearing, high grade bushshot facies massive sulphides. 40-50% med g. cuboidal Py - 40-50% interstitial maroon sph/gr. | |
| | | | | | | | | | Both sub-units are intercalated on cm to dm scale. Entire interval is strongly broken. Local powder rubble zone at 135-139. Good recovery. Est Pb+Zn 10-12% lower contact marked by sudden decrease in 2F4 | |
| | 1,4 | 68 | 1,8 | 53 | | 0,9 | 2,50 | | $\pm 8 \pm 1 \pm 4$ (2F4) 95/5% | |
| | | | | | | | | | Hard pyritic, weakly sph/gr bearing, Mt bearing over most of interval, weakly siliceous, massive sulphides. 85-90% f to med g. Py, 3-5% diss. Qtz, 3-5% $\leq 2mm$ Mt xols (lower 60% of core) & 5-6% interstitial sph/gr as well as v. f. which darkens core. 5% bushshot facies bands w/ 20-25% interstitial maroon sph/gr in cuboidal Py. Locally have 15-20% | |

| Case | From | | To | | Recov. | | No. | | Unit | Description | |
|------|------|----|------|----|--------|----|-----|-----|------|-----------------|---|
| | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | | | 30 |
| | | | | | | | | | | | angular qtz. fragments (broken veins?) w P ₂ + tr. spg. lower contact arbitrary. Noted by absence of Mt. Core strongly brecciated - local minor rubble zones. Est Pb + Zn 4-5% local slickensides |
| | 1815 | 3 | 2090 | 0 | | | | 110 | 2150 | ±4 (21=4) | 90/10% |
| | | | | | | | | | | | Hard pyritic, weakly sph/gn bearing massive sulphides. ~ 95% f to med. gr. lg w ~5% interstitial sph/gn. May be slightly more sph/gn since core is dark brassy. 10% buckshot facies massive sulphides w 20-25% maroon sph/gn. Interval is v. strongly brecciated. Good recovery. lower contact sharp but irregular. |
| | 2090 | 0 | 2144 | 0 | | | | | 2154 | ±BXA (2144 BXA) | 90/10% |
| | | | | | | | | | | | Hard pyritic, sph/gn bearing, carbonaceous, med to high grade P52 laminated med grey quartzite. P52 defined by 15-20% dark grey, poorly defined, strongly silicified carbonaceous bands, 30-60% white silicified sericite bands, 20-30% lg bands + 8-10% v.f. g. maroon sph/gn stringers & laminations - Core gets sulphide poor downwards towards lower contact. locally have brecciated areas w massive Po + sph/gn. There are very high grade lenses (211.9-212.5; 216-217.5 & various smaller lenses) where sph/gn is 25-30% + have 10-15% |

| Core Code | From | | To | | Recov. | | No. | | Unit | Description | |
|--------------|------|----|------|----|--------|----|-----|----|--------|-------------|--|
| | 10 | 14 | 18 | 20 | 22 | 24 | 26 | 28 | | | 30 |
| | | | | | | | | | | | bracciated sub-angular to sub-rounded qtz fragments. Rest of core is well rounded. local folding where P52 is 1/2 CAx but rest is steep. Est Pb + Zn overall - 6-7% |
| | | | | | | | | | | | 234-244 - Bracciated & strongly carbonaceous, 10% qtz veins = 10% sph/br. Core still sph/br bearing but locally has little amounts. lower contact sharp - marked by end of qtz veining & softening of core & change in colour from grey to beige. Tr. Cps throughout interval |
| | 2440 | | 2520 | | | | | | 1D1411 | | |
| | | | | | | | | | | | Mod hard, silicified, sericitized, carbonaceous, med beige, P52 laminated schist. Rocks can barely be scratched w nail. P52 defined by 15-20% black carbonaceous bands & 70-80% light grey to beige med silicified sericite & qtz/feld. laminations. 1% pink sub-hedral garnets. No apparent sulphides. S ₂ plane light beige & talcose & warty crenulated. |
| | | | | | | | | | | | 252 - EOH |

DIAMOND DRILL CORE LOG

Date: January 13/1980

Hole Number: DDH 90F-03

Reference Fabric Orientation Diagram:

Project: Faro Fill in Drilling

Location: "S" Phase Faro Pit.

Section Claim: 22+000

Mine
Terr. Plane
Co-ords.: 8 473.5 N

15 131.50 E

Grid
Co-ords: _____

Elevation: 3590.5

All symmetry determinations looking

Total Depth: 169'

_____ with _____ dipping

Inclination: 55° Az 135°

_____ with dip azimuth _____.

Purpose: To better delineate "S" phase Ore

Reason hole Terminated: Foot-wall was drilled into 20'

Logged by: Peter Ledwidge

Date(s) Logged: Jan 14,

Drilling Contractor: Advanced

Hole Cemented: No Steel down Hole: No

| Size | CORE From | To | Collar Cased and Capped: <u>No</u> |
|------|-----------|-----|------------------------------------|
| Bwl | 0 | 15 | |
| BQ | 15 | 169 | |

Assay Lab: Northern Analytical

Certificate No's: _____

Started: Jan 14 Completed: Jan 15

90F-03

DDH F-9.0-0.3
2 8

CURRAGH RESOURCES INC.

Page 1 of 1

Logged by P. Ledwidge

ASSAY LOG (SAMPLER'S COPY)

Date 15/01/90 Sampled by P. Ledwidge

| CODE | FROM | TO | SAMPLE | INTR. | REC (m) | UNIT | DESCRIPTION |
|------|----------|----------|----------|-------|---------|-----------|---|
| 1 | 10 14 | 16 20 | 22 26 | 28 30 | 32 34 | 36 40 | 42 |
| | 150 9 | 154 9 | 49 51 15 | | | 21001 | BXA |
| | 154 9 | 160 0 | 16 | | | 21E1 | ± BXA ± 8 minor (2F4) (2124) 94/5/1% |
| | 160 0 | 165 1 | 17 | | | " | " |
| | 165 1 | 170 2 | 18 | | | " | " |
| | 170 2 | 175 3 | 19 | | | " | " |
| | 175 3 | 180 4 | 20 | | | " | " |
| | 180 4 | 185 5 | 21 | | | " | " |
| | 185 5 | 190 5 | 22 | | | " | " |
| | 190 5 | 194 5 | 23 | | | 21E1 18 | (200) 95/5% |
| | 194 5 | 198 5 | 24 | | | " | " |
| | 198 5 | 110 26 | 25 | | | " | " |
| | 110 26 | 110 6 5 | 26 | | | 2103 | BXA ± 4 ± 9 (2F4) 90/10% |
| | 110 6 5 | 111 0 4 | 27 | | | " | " |
| | 111 0 4 | 111 4 4 | 28 | | | " | " |
| | 111 4 4 | 111 7 6 | 29 | | | 110E1 | BXA (203 BXA) Brecciated transitional unit. |
| | 112 8 3 | 113 3 0 | 30 | | | 2103 | BXA (10E BXA) Brecciated mixed unit |
| | 113 3 0 | 113 7 5 | 31 | | | 1101 19 4 | ± 11, 44 ± BXA |
| | 113 7 5 | 114 2 0 | 32 | | | " | " |
| | 114 2 0 | 114 6 5 | 33 | | | " | " |
| | 114 6 5 | 115 1 0 | 34 | | | " | " |
| | 115 1 0 | 115 5 5 | 35 | | | " | " |
| | 115 5 5 | 116 10 0 | 36 | | | " | " |
| | 116 10 0 | 116 14 5 | 37 | | | 1124 4 | ± 9 (110194) 80/20% |
| | 116 14 5 | 116 19 0 | 49 51 38 | | | 1104 4 | ± 9 (112194) 80/20% |

DDH F-9.0-03
2 8

CURRAGH RESOURCES INC.
Structural Log

Date: 15/01/90 Logged By: P. Hedwidge

| Code | From | | | | To | | | | Feature | SYM | S ₀ | | S ₁ | | S ₂ | | Description |
|------|------|----|----|----|----|----|----|--------|---------|-----|----------------|----|----------------|----|----------------|----------------------------|-------------|
| | 10 | 14 | 16 | 20 | 22 | 24 | 26 | 28 | | | 32 | 34 | 38 | 40 | 44 | | |
| | | | | | 19 | 19 | 0 | P.S. Z | | | | | 65 | | | breaks Mt foliation | |
| | | | | | 11 | 35 | 0 | P.S. Z | | | | | 55 | | | | |
| | | | | | 11 | 45 | | P.S. Z | | | | | 65 | | | | |
| | | | | | 11 | 45 | | P.S. Z | | | | | | | | 65-0 - folded & brecciated | |

| Code | From | | | | To | | | | Recov. | No. | Unit | Description |
|------|------|----|------|----|----|----|----|----|--------|-------|------|---|
| | 10 | 14 | 18 | 22 | 24 | 26 | 28 | 30 | | | | |
| | 0 | | 1.50 | | | | | | 101 | | | Casing - No return |
| | 1.50 | | 1.60 | | | | | | 102 | | | Crushed rocks - 0.7 ft lost - boulders - pyritic quartzite + diorite |
| | 1.60 | | 3.55 | | | | | | 103 | 101E | | Dyke - Fault Gouge |
| | | | | | | | | | | | | Gouged + weathered light beige to brown diorite. Is same rock as following unit but is strongly gouged. however contact sharp. Can see 15cm brecciated diorite on contact + next unit is non brecciated + non-gouged. 29.5-34.5 - 2.15ft lost. 29.5 - Gravel seam w mixed crushed pebbles (mostly carbonaceous black schist). Rest of recovery good. |
| | 3.55 | | 5.09 | | | | | | 104 | 101E2 | | Dyke |
| | | | | | | | | | | | | Hard, non foliated, v.f.g. porphyritic light beige/grey diorite. v.f.g. white + grey feldspar rich matrix, 5% ≤ 2mm plagioclase, 3-5% ≤ 1mm bio booklets, 2-3% ≤ 1mm amphibole needles. 1-2% v.f.g. Py. however contact gradual over 30cm where diorite has fragments of next unit. 44.5 - EOI - lighter beige + aphanitic + porphyritic - chill margin. Core mod to strongly broken - Good recovery. |

| | | | | | | | |
|------------------|-------------|-------------|--------------|---------------|---------------|---------------|---------------|
| B.S. | | | | 75-001 | 75-002 | 75-002 | 75-003 |
| S.T.A. | S 75-31 | 75-001 | 75-001 | 75-002 | 75-003 | 75-003 | 75-004 |
| F.S. | 75-001 | 75-002 | 75-005 | 75-003 | LP-1 | 75-004 | LP-2 |
| MEAS. DISTANCE | | | | 95.83 | 22.88 | 94.75 | 19.65 |
| VERT. ANGLE | | | | - 09-55-40 | - 09-42-32 | - 09-32-42 | - 01-41-20 |
| SINE - V.A. | | | | .17241 | .16864 | .16582 | .02947 |
| COSINE - V.A. | | | | .98503 | .98568 | .98616 | .99957 |
| STA. ELEVATION | 4185.30 | 4198.87 | | 4185.85 | 4169.19 | 4169.19 | 4158.93 |
| H.I. | | | | - 8.24 | - 8.12 | - 7.40 | - 12.53 |
| INST. HEIGHT | | | | 4177.61 | 4161.07 | 4161.79 | 4146.40 |
| DISTANCE | | | | - 16.52 | - 3.86 | - 15.71 | - 0.58 |
| DIFF. | | | | 4161.09 | 4157.21 | 4146.08 | 4145.82 |
| H.P. | | | | + 8.10 | + 8.53 | + 12.85 | + 10.10 |
| F.S. ELEVATION | 4198.87 | 4185.85 | 4147.28 | 4169.19 | 4165.74 | 4158.93 | 4155.92 |
| AZ. B.S. TO STA. | | | | 298-45-06 | 299-19-56 | 299-19-56 | 298-32-16 |
| ±180-00'-00" | | | | 180- | 180- | 180 | 180 |
| AZ. STA. TO B.S. | | | | 118-45-00 | 119-19-56 | 119-19-56 | 118-32-16 |
| HORIZ. ANGLE | | | | 180-34-50 | 179-45-50 | 179-12-20 | 180-48-50 |
| -360-00'-00" | | | | 299-19-56 | 299-05-46 | 298-32-16 | 299-21-06 |
| AZ. STA. TO F.S. | | | | 299-19-56 | 299-05-46 | 298-32-16 | 299-21-06 |
| BEARING | N 56-47-58W | N 61-14-54W | N 61-00-13 W | N 60-40-04W | N 60-54-14 W | N 61-27-44W | N 60-38-54 W |
| HORIZ. DISTANCE | 85.85 | 84.91 | 359.20 | 94.40 | 22.55 | 93.44 | 19.64 |
| COSINE BEARING | .54755 | .48106 | .48476 | .48987 | .48627 | .47774 | .49017 |
| STA. LAT. | | | | 33 599.38 | 33 645.62 | 33 645.62 | 33 690.26 |
| DIFF. | | | | + 46.24 | + 10.96 | + 44.64 | + 9.63 |
| F.S. LAT. | | N | N | N 33 645.62 N | N 33 656.58 N | N 33 690.26 N | N 33 699.89 N |
| SINE BEARING | .83676 | .87671 | .87465 | .87179 | .87381 | .87850 | .87163 |
| STA. DEP. | | | | 24 858.37 | 24 776.07 | 24 776.07 | 24 693.98 |
| DIFF. | | | | - 82.30 | - 19.70 | - 82.09 | - 17.12 |
| F.S. DEP. | | E | E | E 24 776.07 E | E 24 756.37 E | E 24 693.98 E | E 24 676.86 E |
| GRADE CALC. | | | | | | | |
| F.S. GRADE ELV. | | | | | | | |
| GRADE CHAIN | | | | | | | |
| OFFSETS | LEFT RIGHT | PLUS MINUS | L. R. | P. M. | L. R. | P. M. | L. R. |
| CALCULATED BY: | | | | | | | |
| CHECKED BY: | | | | | | | |
| DATE | | | | | | | |

| | | | | | | | |
|------------------|--------------------------|---------------------------|--------------|--------------|--------------|--------------|--------------------------|
| B.S. | 75-003 | 75-004 | 75-004 | 75-005 | 75-005 | 75-006 | 75-006 |
| S.T.A. | 75-004 | 75-005 | 75-005 | 75-006 | 75-006 | 75-007 | 75-007 |
| F.S. | 75-005 | LP3 | 75-006 | LP4 | 75-007 | LP5 | LP6 |
| MEAS. DISTANCE | 87.59 | 8.89 | 92.78 | 8.85 | 59.75 | 5.96 | 10.27 |
| VERT. ANGLE | -08-44-20 | -11-20-00 | -11-16-20 | +08-18-35 | -07-14-20 | -11-16-55 | -11-00-55 |
| SINE - V.A. | .15193 | .19652 | .19547 | .14452 | .12601 | .19564 | .19107 |
| COSINE - V.A. | .98839 | .98050 | .98071 | .98950 | .99203 | .98068 | .98158 |
| STA. ELEVATION | 4158.93 | TRUE = 4147.28 | 4147.28 | 4130.73 | 4130.73 | 4119.72 | 4119.72 |
| H.I. | -12.68 | -13.25 | -13.75 | -14.06 | -13.01 | -9.12 | -9.12 |
| INST. HEIGHT | 4146.25 | 4134.03 | 4133.53 | 4116.67 | 4117.72 | 4110.60 | 4110.60 |
| V. DISTANCE | -13.31 | -1.75 | -18.17 | +1.28 | -7.53 | -1.17 | -1.96 |
| DIFF. | 4132.94 | 4132.28 | 4115.36 | 4117.95 | 4110.19 | 4109.43 | 4108.64 |
| H.P. | +14.21 | +14.27 | +15.37 | +13.30 | +7.53 | +11.06 | +9.42 |
| F.S. ELEVATION | 4147.15 | 4146.55 | 4130.73 | 4131.25 | 4119.72 | 4120.49 | 4118.06 |
| AZ. B-S TO STA. | 298-32-16 | 299-18-31 | 299-18-31 | 299-12-21 | 299-12-21 | 289-38-31 | |
| ±180-00'-00" | 180 | 180 | 180- | 180- | 180 | 180 | |
| AZ. STA. TO B.S. | 118-32-16 | 118-18-31 | 119-18-31 | 119-12-21 | 119-12-21 | 109-38-31 | 109-38-31 |
| HORZ. ANGLE | 180-46-15 | 179-59-20 | 179-53-50 | 359-41-40 | 170-26-10 | 246-41-50 | 189-27-50 |
| -360-00'-00" | 299-18-31 | 298-17-51 | 299-12-21 | 478-54-01 | 289-38-31 | 356-20-21 | 299-06-21 |
| AZ. STA. TO F.S. | 299-18-31 | 298-17-51 | 299-12-21 | 118-54-01 | 289-38-31 | 356-20-21 | 299-06-21 |
| BEARING | N 60-41-29 W | N 61-42-09 W | N 60-47-38 W | S 61-05-59 E | N 70-21-29 W | N 03-39-39 W | N 60-53-39 W |
| HORZ. DISTANCE | 36.57 | 8.71 | 91.19 | 8.76 | 59.27 | 5.84 | 10.08 |
| COSINE BEARING | .48951 | .48934 | .48795 | .48328 | .33614 | .99796 | .48642 |
| STA. LAT. | 33 690.26 | 33 732.66 ¹³ | 33 732.66 | 33 777.16 | 33 777.16 | 33 797.08 | 33 797.08 |
| DIFF. | +42.38 | +4.26 | +44.50 | -4.23 | +19.92 | +5.83 | +4.90 |
| F.S. LAT. | 33 732.64 ⁶ N | 33 736.92 ¹⁹ N | 33 777.16 N | 33 772.93 N | 33 797.08 N | 33 802.91 N | 33 801.98 ¹ N |
| SINE BEARING | .87200 | .87207 | .87287 | .87546 | .94181 | .06385 | .87373 |
| STA. DEP. | 24 693.98 | 24 618.64 | 24 618.64 | 24 539.04 | 24 539.04 | 24 483.22 | 24 483.22 |
| DIFF. | -75.49 | -7.69 | -79.60 | +7.67 | -55.82 | -0.37 | -8.81 |
| F.S. DEP. | 24 618.49 E | 24 611.04 E | 24 539.04 E | 24 546.71 E | 24 483.22 E | 24 482.85 E | 24 474.41 E |
| GRADE CALC. TRUE | 24 618.64 | 24 610.97 | | | | | |
| | TIE-IN = +.02 | | | | | | |
| F.S. GRADE ELV. | + .15 | | | | | | |
| GRADE CHAIN | | | | | | | |
| OFFSETS | LEFT RIGHT | PLUS MINUS | L. R. | P. M. | L. R. | P. M. | L. R. |
| CALCULATED BY: | | | | | | | |
| CHECKED BY: | | | | | | | |
| DATE | | | | | | | |

| | | | | | | | |
|------------------|--------------|--------------|--------------|------------------|-------|---------------|--------------|
| B.S. | 75-010 | 75-011 | 75-011 | 75-012 | ↓ | 75-011 | 75-012 |
| S.T.A. | 75-011 | 75-012 | 75-012 | 75-013 | | 75-012 | LP 11 |
| F.S. | 75-012 | LP-10 | 75-013 | LP-11 | | LP 11 | 75-014 |
| MEAS. DISTANCE | 74.86 | 7.41 | 77.13 | 9.90 | | 68.86 | 154.93 |
| VERT. ANGLE | -01-14-00 | +15-45-30 | -02-48-20 | 0 | | -11-03-55 | -09-33-00 |
| SINE - V.A. | .02152 | .27158 | .04895 | 0 | | .19198 | .16591 |
| COSINE - V.A. | .99977 | .96242 | .99880 | 1. - | | .98140 | .98614 |
| STA. ELEVATION | 4068.74 | 4054.76 | 4054.76 | 4042.04 | | 4054.76 | 4044.07 |
| H.I. | -13.40 | -9.70 | -9.72 | -10.10 | | -9.70 | -11.50 |
| INST. HEIGHT | 4055.34 | 4044.56 | 4044.54 | 4031.94 | | 4044.56 | 4032.57 |
| DISTANCE | -1.61 | +2.01 | -3.78 | 0 | | -13.22 | -25.70 |
| DIFF. | 4053.73 | 4042.55 | 4040.76 | 4031.94 | | 4031.34 | 4006.87 |
| H.P. | +0.53 | +8.19 | +1.28 | +12.17 | | +12.73 | +11.47 |
| F.S. ELEVATION | 4054.26 | 4054.76 | 4042.04 | 4044.11 | | 4044.07 | 4018.34 |
| AZ. B.S. TO STA. | 301-25-51 | 297-59-51 | 297-59-51 | 328-19-11 | | 297-59-51 | 325-55-56 |
| ±180-00'-00" | 180 | 180 | 180 | 180- | | 180- | 180 |
| AZ. STA. TO B.S. | 121-25-51 | 117-59-51 | 117-59-51 | 148-19-11 | | 117-59-51 | 145 55 56 |
| HORZ. ANGLE | 176-34-00 | 30-16-00 | 210-19-20 | 16-47-10 | | 207-56-05 | 199 12 43 |
| -360-00'-00" | 297-59-51 | 148-15-51 | 328-19-11 | 165-06-21 | | 325-55-56 | 345 08 39 |
| AZ. STA. TO F.S. | 297-59-51 | 148-15-51 | 328-19-11 | | | | |
| BEARING | N 62-00-09 W | S 31-44-09 E | N 31-40-49 W | S 14-53-39 E | | N 34-04-04 W | N 14 51 21 W |
| HORZ. DISTANCE | 74.84 | 7.13 | 77.04 | 9.90 | | 67.58 | 152.78 |
| COSINE BEARING | .46943 | .85048 | .85099 | .96640 | | .82838 | .96658 |
| STA. LAT. | 33 966.22 | 34 001.35 | 34 001.35 | 34 066.91 | | 34 00 1.35 | 34 057.33 |
| DIFF. | +35.13' | -6.06' | +65.56' | -9.57' | | +55.98' | +147.67' |
| F.S. LAT. | 34 001.35 N | 33 995.29 N | 34 066.91 N | 34 057.34 N | | N 34 057.33 N | 34 205.00 N |
| SINE BEARING | .88297 | .52601 | .52518 | .25704 | | .56018 | .25638 |
| STA. DEP. | 24 189.72 | 24 123.64 | 24 123.64 | 24 083.18 | | 24 123.64 | 24 085.78 |
| DIFF. | -66.08' | +3.75' | -40.46' | +2.54' | | -37.86' | -39.17' |
| F.S. DEP. | 24 123.64 E | 24 127.39 E | 24 083.18 E | 24 085.72 E | | E 24 085.78 E | 24 046.61 E |
| GRADE CALC. | | | | Δ 75-013 = -9.79 | | ↑ | |
| | | | | OK. CHAIN | | USE | |
| | | | | LP 11 = -10.28 | | | |
| F.S. GRADE ELV. | | | | | | | |
| GRADE CHAIN | | | | | | | |
| OFFSETS | LEFT RIGHT | PLUS MINUS | L. R. | P. M. | L. R. | P. M. | L. R. |
| CALCULATED BY: | | | | | | | |
| CHECKED BY: | | | | | | | |
| DATE | | | | | | | |

10 36 3.61

13 52 BR

| | | | | | | | |
|-------------------|------------------|-----------------|------------------|------------------|-----------------|------------------|-----------------|
| B.S. | 75-015 | 75-015 | 75-016 | 75-016 | 75-016 | 75-017 | 75-017 |
| S.T.A. | 75-016 | 75-016 | 75-017 | 75-017 | 75-017 | 75-018 | 75-018 |
| F.S. | LP13 | 75-017 | LP14 | 75-018 | LP15 | 75-019 | LP16 |
| MEAS. DISTANCE | 6.69 | 90.00 | 9.12 | 150.93 | 140.18 | 171.11 | 165.29 |
| VERT. ANGLE | + 10-21-50 | -01-28-00 | + 07-05-00 | - 06-53-20 | - 06-16-52 | - 06-17-30 | - 06-12-20 |
| SINE - V.A. | .17990 | .02560 | .12331 | .11994 | .10941 | .10959 | .10810 |
| COSINE - V.A. | .98369 | .99967 | .99237 | .99278 | .99400 | .99398 | .99414 |
| STA. ELEVATION | 3980.54 | 3980.54 | 3971.11 | 3971.11 | 3971.11 | 3943.81 | 3943.81 |
| H.I. | - 2.68 | - 8.45 | - 2.49 | - 10.70 | - 10.70 | - 9.44 | - 9.44 |
| INST. HEIGHT | 3977.86 | 3972.09 | 3968.62 | 3960.41 | 3960.41 | 3934.37 | 3934.37 |
| DISTANCE | + 1.20 | - 2.30 | + 1.12 | - 18.10 | - 15.34 | - 18.75 | - 17.87 |
| DIFF. | 3979.06 | 3969.79 | 3969.74 | 3942.31 | 3945.07 | 3915.62 | 3916.50 |
| H.P. | + 1.70 | + 1.32 | + 1.38 | + 1.50 | + 0.99 | + 2.26 | + 2.45 |
| F.S. ELEVATION | 3980.76 | 3971.11 | 3971.12 | 3943.81 | 3946.06 | 3917.88 | 3918.95 |
| AZ. B.S. TO STA. | 345 08 39 | 345 - 08 - 39 | 30 - 08 - 39 | 30 - 08 - 39 | 30 - 08 - 39 | 62 - 00 - 11 | |
| ±180 - 00' - 00" | 180 | 180 | 180 - | 180 | 180 | 180 | |
| AZ. STA. TO B.S. | 165 08 39 | 165 - 08 - 39 | 210 - 08 - 39 | 210 - 08 - 39 | 210 - 08 - 39 | 242 - 00 - 11 | |
| HORZ. ANGLE | 225 00 00 | 225 - 00 - 00 | 31 - 51 - 32 | 211 - 51 - 32 | 211 - 51 - 32 | 180 - 00 - 00 | 180 - 00 - 00 |
| - 360 - 00' - 00" | 390 08 39 | 390 - 08 - 39 | 242 - 00 - 11 | 422 - 00 - 11 | 422 - 00 - 11 | 62 - 00 - 11 | |
| AZ. STA. TO F.S. | 30 08 39 | 30 - 08 - 39 | 242 - 00 - 11 | 62 - 00 - 11 | 62 - 00 - 11 | 62 - 00 - 11 | |
| BEARING | N30 08 39 E | N30 - 08 - 39 E | S62 - 00 - 11 W | N62 - 00 - 11 E | N62 - 00 - 11 E | N62 - 00 - 11 E | N62 - 00 - 11 E |
| HORZ. DISTANCE | 6.58 | 89.97 | 9.05 | 149.84 | 139.34 | 170.08 | 164.32 |
| COSINE BEARING | .86476 | .86476 | .46943 | .46943 | .46943 | .46943 | .46943 |
| STA. LAT. | 34 428.16 | 34 428.16 | 34 505.96 | 34 505.96 | 34 505.96 | 34 576.30 | 34 576.30 |
| DIFF. | + 5.69 / | + 77.80 / | - 4.25 / | + 70.34 / | + 65.41 / | + 79.84 / | + 77.14 / |
| F.S. LAT. | 34 433.85 N | 34 505.96 N | 34 501.71 N | 34 576.30 N | 34 571.37 N | 34 656.14 N | 34 653.44 N |
| SINE BEARING | .50218 | .50218 | .88297 | .88297 | .88297 | .88297 | .88297 |
| STA. DEP. | 23 987.42 | 23 987.42 | 24 032.61 | 24 032.61 | 24 032.61 | 24 164.91 | 24 164.91 |
| DIFF. | + 3.30 / | + 45.19 / | - 7.99 / | + 132.30 / | + 123.03 / | + 150.18 / | + 145.09 / |
| F.S. DEP. | 23 990.72 E | 24 032.61 E | 24 024.62 E | 24 164.91 E | 24 155.64 E | 24 315.09 E | 24 310.00 E |
| GRADE CALC. | Δ 75-016 = -8.11 | | Δ 75-017 = 10.0' | GR. CHAIN | | GR. PLUG | |
| | LP13 = -9.13 | | LP14 = 8.48 | Δ 75-018 = -9.24 | | Δ 75-019 = +0.18 | |
| | | | | LP15 = -9.81 | | 10' DOWN | |
| | | | | | | = -1.42 | |
| F.S. GRADE ELV. | | | | | | | |
| GRADE CHAIN | | | | | | | |
| OFFSETS | LEFT RIGHT | PLUS MINUS | L. R. | P. M. | L. R. | P. M. | L. R. |
| CALCULATED BY: | | | | | | | |
| CHECKED BY: | | | | | | | |
| DATE | | | | | | | |

D1781.17 =

| | | | | | | | |
|---------------------|--------------------|---------------|------------------------------|------------------|--------------------------|------------------|----------------------------|
| B.S. | 75-018 | 75-019 | 75-021 | B.C.#1 | E.C.#1 | B.C.#2 | E.C.#2 |
| S.T.A. | 75-019 | 75-021 Th-21 | B.C.#1 | E.C.#1 | B.C.#2 | E.C.#2 | B.C.#3 |
| F.S. | 75-021 | B.C.#1 | E.C.#1 | B.C.#2 | E.C.#2 | B.C.#3 | E.C.#3 |
| MEAS. DISTANCE | 34.63 | | | | | | |
| VERT. ANGLE | + 06 -12 -20 | | | | | | |
| SINE - V.A. | .10810 | | | | | | |
| COSINE - V.A. | .99414 | | | | | | |
| STA. ELEVATION | 3917.88 | | | | | | |
| H.I. | - 11.62 | | | | | | |
| INST. HEIGHT | 3906.26 | | | | | | |
| DISTANCE | + 3.74 | THEORITICAL 1 | | | | | |
| DIFF. | OK. 3910.00 | STARTING | | | | | |
| H.P. | + 11.90 | POINT | | | | | |
| F.S. ELEVATION | 3921.90 | | | | | | |
| AZ. B.S. TO STA. | 62 00 11 | | | | | | |
| ±180 - 00' - 00" | 180 | | | | | | |
| AZ. STA. TO B.S. | 242 00 11 | | | | | | |
| HORZ. ANGLE | 00 00 00 | | | | | | |
| - 360 - 00' - 00" | 242 00 11 | | | | | | |
| AZ. STA. TO F.S. | | | | | | | 77 37 20 - |
| BEARING | S 62 00 11 W | N 21 02 41 E | N 37 01 21 E | N 53 - 00 - 00 E | S 82 - 00 - 00 E | S 37 - 00 - 00 E | S 86 32 40 E |
| HORZ. DISTANCE | 34.43 | 350 | 110.10 | 131.50 | 141.42 | 103.50 | 114.14 |
| COSINE BEARING | .46943 | .93330 | .79858 | .60182 | .13917 | .79864 | .06027 |
| STA. LAT. | 34 656.14 | 34 637.55 | 34 964.21 | 35 052.13 | 35 131.27 | 35 111.59 | 35 028.93 |
| DIFF. | - 16.16 | + 326.66 | + 87.92 | + 79.14 | - 19.68 | - 82.66 | - 6.88 |
| F.S. LAT. | 34 639.98 N | 34 964.21 N | 35 052.13 N | 35 131.27 N | 35 111.59 N | 35 028.93 N | 35 022.05 |
| SINE BEARING | .88297 | .35910 | .60189 | .79864 | .99027 | .60182 | .99818 |
| STA. DEP. | 24 315.09 | 24 285.98 | 24 411.66 | 24 477.93 | 24 582.95 | 24 722.99 | 24 785.28 |
| DIFF. | - 30.40 | + 125.68 | + 66.27 | + 105.02 | + 140.04 | + 62.29 | + 113.93 |
| F.S. DEP. | 24 284.69 E | 24 411.66 E | 24 477.93 E | 24 582.95 E | 24 722.99 E | 24 785.28 E | 24 899.21 |
| GRADE CALC. | | @ -12% | | | | | |
| THEORITICAL EL. | @ 75-021 = 3907.87 | EL 3865.87 | EL 3852.49 | EL 3836.71 | EL 3817.86 | EL 3805.44 | EL 3789.93 |
| H.D. | " = 1746.74 | HD 2096.74 | HD 2208.28 | HD = 2339.78 | HD 2496.86 | HD 2600.36 | HD 2730.07 |
| F.S. GRADE ELV.S.D. | = 1759.26 | SD 2111.77 | SD = 2224.11 ARC = 111.54 | S.D. = 2356.50 | SD 2514.70 ARC 157.08 | SD 2619.00 | SD 2749.54 ARC = 129.71 |
| GRADE CHAIN | | | CHORD 110.10 | | CHORD 141.42 | | CHORD = 114.14 |
| OFFSETS | LEFT RIGHT | PLUS MINUS | L R | P M | L R | P M | L R |
| CALCULATED BY: | ROA | | R = 200' | | R = 100' | | R = 75' |
| CHECKED BY: | | | | | | | |
| DATE | 18.08.75 | | | | | | |

PLS. SEE P-14 FOR REVISION

| | | | | | | | | | |
|--------------------|----------------------------|---|-------|-------|-------|-------|-------|---|---|
| B.S. | <u>B.C.#3</u> | | | | | | | | |
| S.T.A. | <u>E.C.#3</u> | | | | | | | | |
| F.S. | <u>TARGET PT. AS SHOWN</u> | | | | | | | | |
| MEAS. DISTANCE | | | | | | | | | |
| VERT. ANGLE | | | | | | | | | |
| SINE - V.A. | | | | | | | | | |
| COSINE - V.A. | | | | | | | | | |
| STA. ELEVATION | | | | | | | | | |
| H.I. | | | | | | | | | |
| INST. HEIGHT | | | | | | | | | |
| DISTANCE | | | | | | | | | |
| DIFF. | | | | | | | | | |
| H.P. | | | | | | | | | |
| F.S. ELEVATION | | | | | | | | | |
| AZ. B.S. TO STA. | | | | | | | | | |
| ±180 - 00' - 00" | | | | | | | | | |
| AZ. STA. TO B.S. | | | | | | | | | |
| HORZ. ANGLE | | | | | | | | | |
| - 360 - 00' - 00" | | | | | | | | | |
| AZ. STA. TO F.S. | | | | | | | | | |
| BEARING | <u>N 43 54 41 E</u> | | | | | | | | |
| HORZ. DISTANCE | <u>106.0</u> | | | | | | | | |
| COSINE BEARING | <u>.72041</u> | | | | | | | | |
| STA. LAT. | <u>35 022.05</u> | | | | | | | | |
| DIFF. | <u>+ 76.36</u> | | | | | | | | |
| F.S. LAT. | <u>35 098.41</u> | N | N | N | N | N | N | N | N |
| SINE BEARING | <u>.69354</u> | | | | | | | | |
| STA. DEP. | <u>24 899.21</u> | | | | | | | | |
| DIFF. | <u>+ 73.52</u> | | | | | | | | |
| F.S. DEP. | <u>24 972.73</u> | E | E | E | E | E | E | E | E |
| GRADE CALC. | | | | | | | | | |
| THEORETICAL EL. | <u>= 3777.24</u> | | | | | | | | |
| H.D. | <u>= 2836.07</u> | <u>FROM PORTAL WITH TWO GRADES ; FIRST 1746.74' @ -16% & 1089.33 @ -12%</u> | | | | | | | |
| F.S. GRADE ELV. SD | <u>= 2856.40</u> | | | | | | | | |
| GRADE CHAIN | | | | | | | | | |
| OFFSETS | LEFT RIGHT | PLUS MINUS | L. R. | P. M. | L. R. | P. M. | L. R. | | |
| CALCULATED BY: | <u>ROA</u> | | | | | | | | |
| CHECKED BY: | | | | | | | | | |
| DATE | <u>18.08.75</u> | | | | | | | | |

| | | | | | | | | | |
|------------------|------------------|---------------|-------|-------|-------|-------|-------|---|---|
| B.S. | 75-019 | 75-021 | | | | | | | |
| S.T.A. | 75-021 | TP1 on F.L.R. | | | | | | | |
| F.S. | TP1 on F.L.R. | 75-022 | | | | | | | |
| MEAS. DISTANCE | 181.87 | 35.38 | | | | | | | |
| VERT. ANGLE | -08-52-20 | 0 | | | | | | | |
| SINE - V.A. | .15423 | | | | | | | | |
| COSINE - V.A. | .98803 | | | | | | | | |
| STA. ELEVATION | 3921.90 | 3883.20 | | | | | | | |
| H.I. | -10.65 | +4.73 | | | | | | | |
| INST. HEIGHT | 3911.25 | 3887.93 | | | | | | | |
| V. DISTANCE | -28.05 | 0.00 | | | | | | | |
| DIFF. | 3883.20 | 3887.93 | | | | | | | |
| H.P. | 0.00 | +7.35 | | | | | | | |
| F.S. ELEVATION | 3883.20 | 3895.28 | | | | | | | |
| AZ. B.S. TO STA. | 242 00 11 | | | | | | | | |
| ±180 - 00' - 00" | 180 | | | | | | | | |
| AZ. STA. TO B.S. | 62 00 11 | | | | | | | | |
| HORZ. ANGLE | 318 - 58 - 10 | | | | | | | | |
| -360 - 00' - 00" | 380 - 58 - 21 | | | | | | | | |
| AZ. STA. TO F.S. | 20 - 58 - 21 | | | | | | | | |
| BEARING | N 20 - 58 - 21 E | N 20 58 21 E | | | | | | | |
| HORZ. DISTANCE | 179.69 | 35.38 | | | | | | | |
| COSINE BEARING | .93375 | .93375 | | | | | | | |
| STA. LAT. | 34 639.98 | 34 807.77 | | | | | | | |
| DIFF. | +167.79 | +33.04 | | | | | | | |
| F.S. LAT. | 34 807.77 N | 34 840.81 N | N | N | N | N | N | N | N |
| SINE BEARING | .35792 | .35792 | | | | | | | |
| STA. DEP. | 24 284.69 | 24 349.00 | | | | | | | |
| DIFF. | +64.31 | +12.66 | | | | | | | |
| F.S. DEP. | 24 349.00 E | 24 361.66 E | E | E | E | E | E | E | E |
| GRADE CALC. | | | | | | | | | |
| F.S. GRADE ELV. | | | | | | | | | |
| GRADE CHAIN | | | | | | | | | |
| OFFSETS | LEFT RIGHT | PLUS MINUS | L. R. | P. M. | L. R. | P. M. | L. R. | | |
| CALCULATED BY: | ROA | ROA | | | | | | | |
| CHECKED BY: | | | | | | | | | |
| DATE | 24.08.75 | 24.08.75 | | | | | | | |

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|------------------|--------------|--------------|---------------------------|---------------------------|--------------|------------------------------|----------------------------|
| B.S. | 75022 | 75023 | 75023 | 750234 | 75024 | 75024 | 75025 |
| S.T.A. | 75023 | 75024 | 75024 | 75025 | 75025 | 75025 | 75026 |
| F.S. | 75024 | LP19 | 75025 | LP20 | LP21 | 75026 | LP22 |
| MEAS. DISTANCE | 108.23 ✓ | 6.21 ✓ | 46.13 | 6.97 ✓ | 7.95 ✓ | 62.82 | 7.38 |
| VERT. ANGLE | -02° 05' 50" | 0 00 | +05° 15' 40" ✓ | 0 00 00 | 0 00 00 | +02° 28' 40" | 0-00-00 |
| SINE - V.A. | | | | | | | |
| COSINE - V.A. | | | | | | | |
| STA. ELEVATION | 3879.53 | 3866.84 | 3866.84 | 3863.66 | 3863.66 | 3863.66 | 3855.18 |
| H.I. | 9.62 ✓ | 10.03 ✓ | -9.25 ✓ | 12.62 ✓ | 12.62 ✓ | 12.39 | 10.44 |
| INST. HEIGHT | 3869.91 | 3856.81 | 3857.59 | 3851.04 | 3851.04 | 3851.27 | 3844.74 |
| V DISTANCE | 3.96 | | + 4.23 | | | + 2.72 | 0 |
| DIFF. | 3865.95 | 3856.81 | 3861.82 | 3851.04 | 3851.04 | 3853.99 | 3844.74 |
| H.P. | .89 | 11.33 ✓ | + 1.84 ✓ | 12.20 ✓ | 13.34 ✓ | + 1.19 | 10.07 |
| F.S. ELEVATION | 3866.84 | 3868.14 | 3863.66 ^{117.63} | 3863.24 ^{117.57} | 3864.38 | 3855.18 ^{1175.959m} | 3854.81 ^{1174.94} |
| AZ. B.S. TO STA. | 21 04 31 | 35 34 11 | 35 34 11 | 53 00 00 | 53 00 00 | 53 00 00 | 57 08 40 |
| ±180 - 00' - 00" | 180 | 180 | 180 | 180 | 180 | 180 | 180 |
| AZ. STA. TO B.S. | 201 04 31 | 215 34 11 | 215 34 11 | 233 00 00 | 233 00 00 | 233 00 00 | 237 08 40 |
| HORZ. ANGLE | 194 29 40 ✓ | 17 25 49 | 197 25 49 ✓ | 000 | 292 28 20 | 184 08 40 | 16 46 45 |
| -360 - 00' - 00" | 395 33 71 | 232 59 60 | 412 59 60 | | 525 28 20 | 417 08 40 | 253 55 25 |
| AZ. STA. TO F.S. | 35 34 11 | 232 59 60 | 53 00 00 | 233 00 00 | 165 28 20 | 57 08 40 | 253 55 25 |
| BEARING | | | | | | | |
| HORZ. DISTANCE | 108.16 | 6.21 | 45.94 | 6.97 | 7.95 | 62.76 = 19.129' | 7.38 = 2.249 |
| COSINE BEARING | 10657.556 | | | | | | |
| STA. LAT. | 34967.05 | 35055.03 | 35055.03 | 35082.68 | 35082.68 | 35082.68 | 35116.73 |
| DIFF. | 87.98 ✓ | -3.74 ✓ | +27.65 ✓ | -4.19 ✓ | -7.70 ✓ | 34.05 ✓ | -2.04 ✓ |
| F.S. LAT. | 35055.03 ✓ N | 35051.39 ✓ N | 35082.68 ✓ N | 35078.49 ✓ N | 35074.98 ✓ N | 35116.73 ✓ N | 35114.69 ✓ N |
| SINE BEARING | | | | | | 10703.579 m | 10702.958 |
| STA. DEP. | 24410.31 | 24473.23 | 24473.23 | 24509.92 | 24509.92 | 24509.92 | 24562.64 |
| DIFF. | 62.92 ✓ | 4.96 ✓ | +36.69 ✓ | -5.57 ✓ | 1.99 ✓ | 52.72 ✓ | -7.09 ✓ |
| F.S. DEP. | 24473.23 ✓ E | 24468.27 ✓ E | 24509.92 ✓ E | 24504.35 ✓ E | 24511.91 ✓ E | 24562.64 ✓ E | 24555.55 ✓ E |
| GRADE CALC. | | | | | | 7486.692 | 7484.531 |
| | | | | | | | |
| F.S. GRADE ELV. | 3866.84 | 3868.14 | 3863.66 | 3863.24 | 3864.38 | 3855.18 | 3854.81 |
| GRADE CHAIN | 3857.77 | 3858.52 | 3852.25 | 3853.09 | 3852.05 | 3844.73 | 3845.67 |
| OFFSETS | LEFT 9.07 | PLUS 9.62 | 11.41 | 10.15 | 12.33 | 10.45 | 9.14 |
| | RIGHT | MINUS | L. R. | P. M. | L. R. | P. M. | L. R. |
| CALCULATED BY: | | N 34990.71 | 35114.81 11 | | | | |
| CHECKED BY: | | E 24388.41 | 24553.09 E | | | | |
| DATE | | | | | | | |
| FIELD PAGE NO. | | | | | | | |

| | | | | | | |
|------------------------------|--------------------|-----------------|-----------------|-----------------|-----------------|--------------------------------|
| B.S. | | | | | | |
| S.T.A. | EC 1 (OLD) | BC 2 (NEW) | EC 2 | BC 3 | EC 3 | |
| F.S. | BC 2 (NEW) | EC 2 | BC 3 | EC 3 | END POINT | |
| MEAS. DISTANCE | | | | | | |
| VERT. ANGLE | | | | | | |
| SINE - V.A. | | | | | | |
| COSINE - V.A. | | | | | | |
| STA. ELEVATION | | Δ 7044.05 | | Δ 7956.06 | | |
| H.I. | EC 1 (OLD) = | ARC: 92.59 | | ARC 104.63 | | |
| INST. HEIGHT | 10,683.889 N | 38.221 | | 31.891 | | |
| DISTANCE | 7460.873 E | R = 22.860 | | R = 22.860 | | |
| DIFF. | | | | | | |
| THEORETICAL | | | | | | |
| F.S. ELEVATION | 3840.17 / | 3828.32 / | 3804.18 / | 3790.78 / | 3777.21 / | |
| AZ. B.S. TO STA. | 1170.484 | 1166.872 | 1159.514 | 1155.430 | 1151.294 / | |
| ±180 - 00' - 00" | | | | | | |
| AZ. STA. TO B.S. | | | | | | N.B. |
| HORZ. ANGLE | | | | | | |
| -360 - 00' - 00" | | | | | | |
| AZ. STA. TO F.S. | 5300.00 / | 8822.02 | 12344.05 / | 8346.02 | 4347.59 / | METRIC SYSTEM IS IN RED PENCIL |
| BEARING | | | | | | |
| HORZ. DISTANCE | 102.69 / | 86.82 | 188.62 / | 96.35 | 106.00 / | |
| COSINE BEARING | 31.300 | 26.463 | 57.491 | 29.367 | 32.309 | |
| STA. LAT. | 35052.13 / | 35113.93 / | 35116.40 / | 35011.65 / | 35022.11 / | |
| DIFF. | 61.80 / | 2.47 / | 104.75 / | 10.46 / | 76.51 / | |
| F.S. LAT. | 35113.93 / N | 35116.40 / N | 35011.65 / N | 35022.11 / N | 35098.62 / N | |
| SINE BEARING _{EC 1} | 10702.726 | 10703.478 | 10671.551 | 10674.739 | 10698.059 | |
| STA. DEP. | 24477.93 / | 24559.94 / | 24646.72 / | 24803.58 | 24899.36 / | |
| DIFF. | 82.01 / | 86.78 / | 156.86 / | 95.78 / | 73.37 / | |
| F.S. DEP. | 24559.94 / E | 24646.72 / E | 24803.58 / E | 24899.36 / E | 24972.73 / E | |
| GRADE CALC. B.C.V. | 7485.869 | 7512.320 | 7568.131 | 7589.325 | 7611.688 | |
| THEORETICAL | HD 2310.97 104.384 | 2403.56 732.605 | 2592.18 790.096 | 2696.81 821.988 | 2802.81 854.296 | From PORTAL WITH GRADES |
| | SD 23275A | 2420.89 / | 2611.05 / | 2716.53 / | 2823.39 / | 1) 1746.74 @ -16% |
| F.S. GRADE ELV. | | | | | | 2) 564.23 @ -12% |
| GRADE CHAIN | | | | | | 3) 491.84 @ -12.8% |
| OFFSETS | LEFT RIGHT | PLUS MINUS | L. R. | P. M. | L. R. | P. A) M. @ -13.19% L. R. |
| CALCULATED BY: | RW | RW | RW. | RW. | RW. | RW. |
| CHECKED BY: | ROA | ROA | ROA | ROA | ROA | 12K |
| DATE | 16 SEPT 75 | | | | | 16 SEPT. 75 |

| | | | | | | | |
|-------------------|--------------|-------------------|--------------|-------------------|--------------|------------------|--------------------|
| B.S. | | | | | | THEORETICAL | 7 |
| S.T.A. | E.C. 1 (OLD) | B.C. 2 (NEW) | E.C. 2 | B.C. 3 | E.C. 3 | B.L. 72 W | |
| F.S. | B.C. 2 (NEW) | E.C. 2 | B.C. 3 | E.C. 3 | 2N-2S | VS. 2N-2S | |
| MEAS. DISTANCE | | | | | | | |
| VERT. ANGLE | | | | | | | |
| SINE - V.A. | | | | | | | |
| COSINE - V.A. | | $\Delta 70-44-05$ | | $\Delta 79-56-06$ | | | |
| STA. ELEVATION | | ARC = 28.221 | | ARC = 31.891 | | | |
| H.I. | | R = 22.860 | | R = 22.860 | | | |
| INST. HEIGHT | | | | | | | |
| DISTANCE | | | | | | | |
| DIFF. | | | | | | | |
| H.P. | | | | | | | |
| F.S. ELEVATION | 1170.484 | 1166.872 | 1159.945 | 1155.257 | 1150.464 | 1150.464 | |
| AZ. B.S. TO STA. | | | | | | | |
| ±180 - 00' - 00" | | | | | | | |
| AZ. STA. TO B.S. | | | | | | | |
| HORZ. ANGLE | | | | | | TRUE | |
| - 360 - 00' - 00" | | | | | | | |
| AZ. STA. TO F.S. | 53 - 00 - 00 | 88 - 22 - 02 | 123 44 05 | 83 46 02 | 43 47 59 | 43 47 59 | |
| BEARING | | | 556 15 55 E | | | | |
| HORZ. DISTANCE | 31.300 | 26.463 | 54.12 | 29.367 | 32.80 | 61.00 | |
| COSINE BEARING | | | .55535 | .10857 | .72176 | .72176 | |
| STA. LAT. | 10 683.889 | 10 702.726 | 10 703.479 | 10 673.423 | 10 676.611 | 10 656.259 | |
| DIFF. | + 18.837 | + 0.753 | - 30.056 | + 3.188 | + 23.674 | + 44.027 | |
| F.S. LAT. | 10 702.726 N | 10 703.479 N | 10 673.423 N | 10 676.611 N | 10 700.285 N | VS. 10 700.286 N | N |
| SINE BEARING | | | .83162 | .99409 | .69214 | .69214 | |
| STA. DEP. | 7 460.872 | 7 485.869 | 7 512.320 | 7 557.327 | 7 586.520 | 7 567.022 | |
| DIFF. | + 24.997 | + 26.451 | + 45.007 | + 29.193 | + 22.702 | + 42.220 | |
| F.S. DEP. | 7 485.869 E | 7 512.320 E | 7 557.327 E | 7 586.520 E | 7 609.222 E | VS. 7 609.242 E | E |
| GRADE CALC. | | | | | | | |
| HD | 704.384 | 732.605 | 786.725 | 818.616 | 851.416 | | |
| SD | 709.434 | 737.887 | 793.145 | 825.296 | 858.364 | | |
| F.S. GRADE ELV. | | | | | | e.c. = .001 N. | |
| GRADE CHAIN | | | | | | .020 E. | OK. 77'S ON TARGET |
| OFFSETS | LEFT | RIGHT | PLUS | MINUS | L. | R. | P. |
| CALCULATED BY: | | | | | | | |
| CHECKED BY: | | | | | | | |
| DATE | 12.8% | 12.8% | 12.8% | 14.7% | 14.7% | | |
| | | | | | | | |

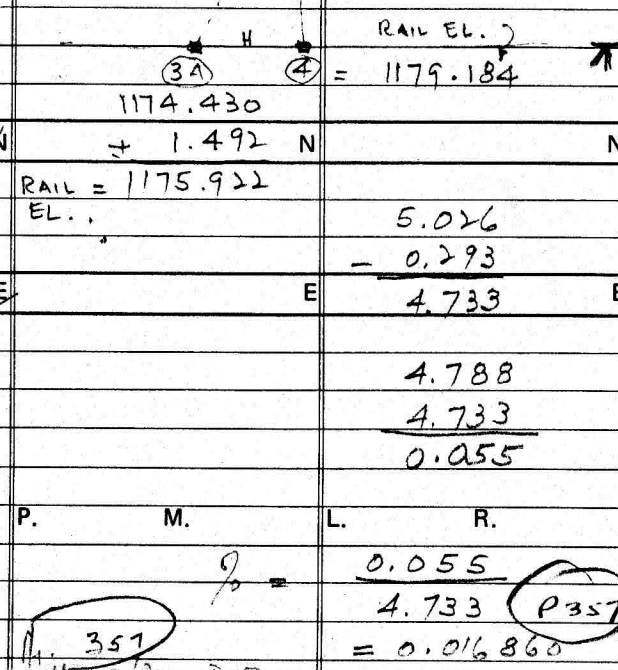
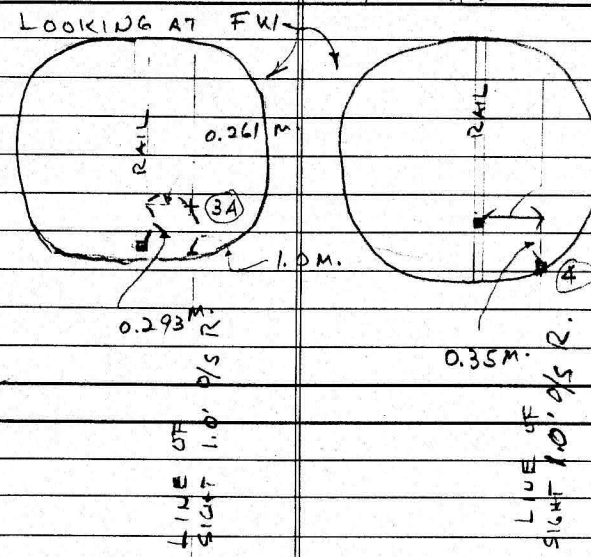
| | | | | | | | |
|--------------------------|---------------------|---------------------|---------------------|-----------------|----------------|---------------|---------------|
| B.S. | 75-026 | 75-027 | 75-027 | 75-027 | 75-028 | LP26 | |
| S.T.A. | 75-027 | 75-028 ✓ | 75-028 | 028 | 029 | 029 | |
| F.S. | 75-028 | LP24 | LP25 | 029 | LP26 | LP26 (RESET) | |
| MEAS. DISTANCE | 41.361 | 2.966 | 1.978 ✓ | 69.62 = 21.220 | 5.58' 1.701' | 5.38' 1.640 M | |
| VERT. ANGLE | -04-04-25 | +06-46-30 | +01-21-25 ✓ | +1°07'35" | +3°55'20" | +0°19' | |
| SINE - V.A. | .07104 | .11797 | .02368 ✓ | .01965 | .06840 | .00553 | |
| COSINE - V.A. | .99748 | .99302 | .99972 | .99981 | .99766 | .99998 | |
| STA. ELEVATION | 1172.395 | 1166.914 | 1166.914 | 1166.914 | | 1164.317 ✓ | |
| H.I. | -3.030 | -3.200 | -3.200 | -10.66 = -3.249 | 9.34 = -2.847 | -9.38' -2.859 | |
| INST. HEIGHT | 1169.365 | 1163.714 | 1163.714 | | | 1161.458 | |
| DISTANCE | -2.938 | +0.350 | +0.047 | | | +0.009 | |
| DIFF. | 1166.427 | 1164.064 | 1163.761 | +0.417 | +0.116 | 1161.147 ✓ | |
| H.P. | +0.487 | +3.164 | +3.225 | +0.77 = +0.235 | +8.29 = +2.527 | +9.24 +2.816 | |
| F.S. ELEVATION | 1166.914 ✓ | 1167.228 ✓ | 1166.986 ✓ | 1164.317 ✓ | 1164.113 | 1164.283 | |
| AZ. B.S. TO STA. | 79-36-50 | 122-25-50 | | 122 25 50 | 126 52 00 | | |
| ±180 - 00' - 00" | 180 - | 180 - | | 180 | 180 | | |
| AZ. STA. TO B.S. | 259-36-50 | 302-25-50 | 302-25-50 | 302 25 50 | 306 52 00 | 271 46 45 | |
| HORZ. ANGLE | 222-49-00 | 01-19-25 | 297-11-45 | 184° 26 10 | 324 54 45 | 15° 45' 30" | |
| -360 - 00' - 00" | 482-25-50 | 303-45-15 | 599-37-35 | 486 52 00 | 631 46 45 | 287 32 15 | |
| AZ. STA. TO F.S. | 122-25-50 | | 239-37-35 | 126 52 00 | 271 46 45 | | 257-22-15 |
| BEARING | S 57-34-10 E | N 56-14-45 W | S 59-37-35 W | S 53° 08 00 E | N 87 46 45 W | N 17 32 15 W | N 72-27 45 W |
| HORZ. DISTANCE | 41.257 | 2.945 | 1.977 | 21.216 | 1.697 | 1.640 | 360 - 00 - 00 |
| COSINE BEARING | .53628 | .55563 | .50564 | .59995 | .03875 | .30133 | |
| STA. LAT. | 10 707.267 | 10 685.142 | 10 685.142 | 10 685.142 | 10 672.292 | 10 672.714 ✓ | |
| DIFF. | -22.125 ✓ | +1.636 ✓ | -1.000 ✓ | -12.728 ✓ | -0.066 | +0.494 ✓ | |
| F.S. LAT. | 10 685.142 N | 10 686.778 N | 10 684.142 N | 10 672.414 N | 10 672.226 N | 10 672.808 N | N |
| SINE BEARING | .84404 | .83143 | .86274 | .80003 | .99925 | .95352 | |
| STA. DEP. | 75 06.815 ✓ | 75 41.637 | 75 41.637 | 75 41.637 | 75 8.610 | 75 58.610 | |
| DIFF. | +34.822 ✓ | -2.448 ✓ | -1.706 ✓ | 16.992 ✓ | -1.696 | -1.564 ✓ | |
| F.S. DEP. | 75 41.637 E | 75 39.189 E | 75 39.931 E | 75 58.610 E | 75 56.914 E | 75 57.046 E | E |
| GRADE CALC. | | | | -12.8% | -14.8% | | |
| | 1166.914 | 1167.228 | 1166.986 | 1164.317 | 1164.113 | 1164.283 | |
| 1.524 M. = 5' GRADE L. → | 1163.974 ✓ | 1164.351 ✓ | 1164.227 ✓ | 1161.258 ✓ | | 1161.490 | |
| F.S. GRADE ELV. | +2.940 ✓ | +2.877 ✓ | -2.759 ✓ | 3.059 M | | 2.793 M. | |
| GRADE CHAIN | -12.8% | -12.8% | | 10.036 FT. ✓ | | 9.163 FT. ✓ | |
| OFFSETS | LEFT RIGHT | PLUS MINUS | L. R. | P. M. | L. R. | P. M. | L. R. |
| CALCULATED BY: | ROA | ROA | ROA | | | | |
| CHECKED BY: | (G. G. [signature]) | (G. G. [signature]) | (G. G. [signature]) | ROA | | ROA | |
| DATE | 30 SEP 75 | 30 SEP 75 | 30 SEP 75 | 4 OCT 75 | | 4 OCT 75 | |

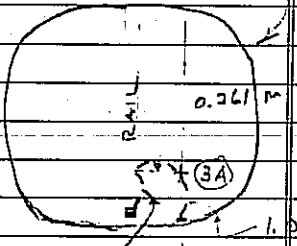
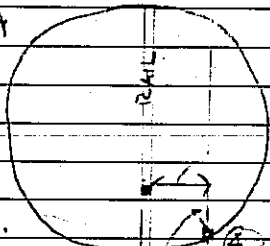
| | | | | | | | | |
|------------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|--|
| B.S. | 75-004 | 75-005 | 75-012 | 75-013 | 75-016 | 75-017 | | |
| S.T.A. | 75-005 | 75-012 | 75-013 | 75-016 | 75-017 | 75-021 | | |
| F.S. | 75-012 | 75-013 | 75-016 | 75-017 | 75-021 | 75-TP-HW | | |
| MEAS. DISTANCE | | | | | | | | |
| VERT. ANGLE | -09-05-50 | -09-40-05 | -09-22-38 | -07-04-25 | -10-04-15 | -06-55-00 | | |
| TAN SINE - V.A. | .16012 | .17036 | .16514 | .12408 | .17760 | .12131 | | |
| COSINE - V.A. | | | | | | | | |
| STA. ELEVATION | 1264.100 | 1235.785 | 1232.046 | 1213.323 | 1210.440 | 1195.636 | | |
| H.I. | -4.103 | -2.926 | -2.963 | -2.905 | -3.115 | -3.374 | | |
| INST. HEIGHT | 1259.997 | 1232.859 | 1229.083 | 1210.418 | 1207.325 | 1192.262 | | |
| DISTANCE | -27.486 | -3.998 | -18.811 | -3.404 | -15.450 | -12.833 | | |
| DIFF. | 1232.511 | 1228.861 | 1210.272 | 1207.014 | 1191.875 | 1179.429 | | |
| H.P. | +3.274 | +3.185 | +3.051 | +3.426 | +3.761 | +3.319 | | |
| F.S. ELEVATION | 1235.785 | 1232.046 | 1213.323 | 1210.440 | 1195.636 | 1182.748 | 1182.556 | |
| AZ. B-S TO STA. | 299-18-31 | 298-29-53 | 328-18-06 | 345-11-47 | 30-11-04 | 62-02-39 | DIFF. 0.192 | |
| ±180-00'-00" | 180 | 180 | 180 | 180 | 180 | 180 | | |
| AZ. STA. TO B.S. | 119-18-31 | 118-29-53 | 148-18-06 | 165-11-47 | 210-11-04 | 242-02-39 | 1182.748 | |
| HORZ. ANGLE | 179-11-22 | 209-48-13 | 196-53-41 | 224-59-17 | 211-51-35 | 139-00-06 | -0.53 | |
| -360-00'-00" | 298-29-53 | 328-18-06 | 345-11-47 | 390-11-04 | 422-02-39 | 381-02-45 | 1182.670 | |
| AZ. STA. TO F.S. | | | | 30-11-04 | 62-02-39 | 21-02-45 | | |
| BEARING | N 61-30-07 W | N 31-41-54 W | N 14-48-13 W | N 30-11-04 E | N 62-02-39 E | N 21-02-45 E | | |
| HORZ. DISTANCE | 171.658 | 23.470 | 113.907 | 27.432 | 86.996 | 105.786 | | |
| COSINE BEARING | .47713 | .85082 | .96681 | .86441 | .46879 | .93329 | | |
| STA. LAT. | 10 281.720 | 10 363.623 | 10 383.592 | 10 493.718 | 10 517.430 | 10 558.213 | | |
| DIFF. | +81.903 | +19.969 | +110.126 | +23.712 | +40.783 | +98.729 | | |
| F.S. LAT. | 10 363.623 N | 10 383.592 N | 10 493.718 N | 10 517.430 N | 10 558.213 N | 10 656.942 N | N | |
| SINE BEARING | .87884 | .52545 | .25550 | .50279 | .88331 | .35912 | | |
| STA. DEP. | 7503.760 | 7352.900 | 7340.568 | 7311.464 | 7325.257 | 7402.101 | | |
| DIFF. | -150.860 | -12.332 | -29.104 | +13.793 | +76.844 | +37.990 | | |
| F.S. DEP. | 7352.900 E | 7340.568 E | 7311.464 E | 7325.257 E | 7402.101 E | 7440.091 E | E | |
| GRADE CALC. | | | | | | | | |
| | | | | | | DIFF. +0.057 | | |
| | | | | | | +0.198 | | |
| F.S. GRADE ELV. | | | | | | | | |
| GRADE CHAIN | | | | | | | | |
| OFFSETS | LEFT RIGHT | PLUS MINUS | L. R. | P. M. | L. R. | P. M. | L. R. | |
| CALCULATED BY: | ROA | | ROA | | ROA | | ROA | |
| CHECKED BY: | [Signature] | | [Signature] | | [Signature] | | [Signature] | |
| DATE | 5 OCT 75 | | 5 OCT 75 | | 5 OCT 75 | | 5 OCT 75 | |

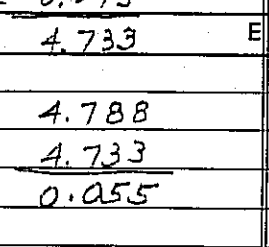
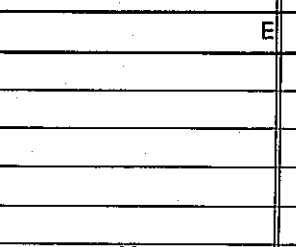
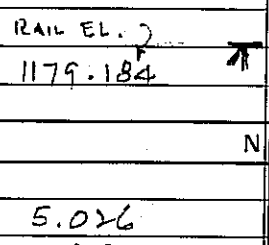
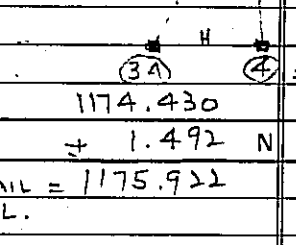
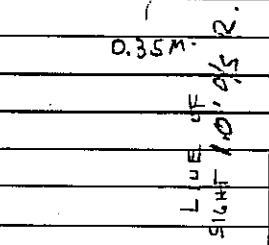
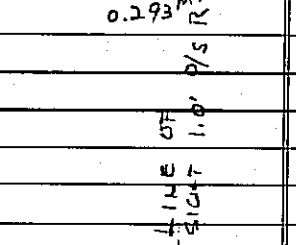
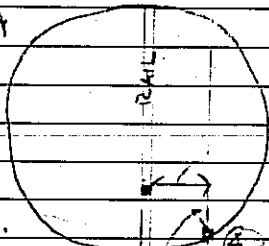
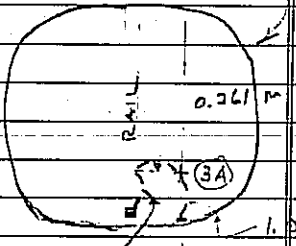
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|------------------|----------------|----------------|----------------|--------------|--------------|-------|-------|
| B.S. | 75-028 | 75-029 | 75-027 | 029 | 030 | | |
| S.T.A. | 75-029 | 75-030 | 75-028 | 030 | 031 | | |
| F.S. | 75-030 | LP 27 | TP 2 VERT/RSE | 031 | LP 28 | | |
| MEAS. DISTANCE | 12.966 | 2.380 | 16.023 | 15.496 | 3.703 | | |
| VERT. ANGLE | -12-23-45 / | +11-13-55 / | +07-38-00 / | +3°38'25" | +9°03'30" | | |
| SINE - V.A. | .21466 | .19478 | .13283 | | | | |
| COSINE - V.A. | .97668 | .98084 | .99114 | | | | |
| STA. ELEVATION | 1164.317 | 1162.692 | 1166.914 | 1162.692 | 1160.389 | | |
| H.I. | -2.899 | -3.682 | -2.963 / | -3.761 | -3.453 | | |
| INST. HEIGHT | 1161.418 | 1159.010 | 1163.951 | 1158.925 | 1156.936 | | |
| DISTANCE | -2.783 | +0.464 | +2.128 | -10.984 | +0.583 / | | |
| DIFF. | 1158.635 | 1159.474 | 1166.079 | 1159.909 | 1157.519 | | |
| H.P. | +4.057 | +4.048 | 0.000 | +0.480 | +2.783 | | |
| F.S. ELEVATION | 1162.692 / | 1163.522 / | 1166.079 | 1160.389 | 1160.302 | | |
| AZ. B-S TO STA. | 126-52-00 | 102-27-45 | 122-25-50 / | 102°27'45" | 61°58'00" | | |
| ±180-00'-00" | 180- | 180 | 180- | | | | |
| AZ. STA. TO B.S. | 306-52-00 | 282-27-45 | 302-25-50 | | | | |
| HORZ. ANGLE | 155-35-45 | 320-05-12 | 293-34-45 | 139°30'15" | 341°49'40" | | |
| -360-00'-00" | 462-27-45 | 602-32-57 | 596-00-35 | | | | |
| AZ. STA. TO F.S. | 102-27-45 | 242-32-57 | 236-00-35 | 61°58'00" | 223°47'40" | | |
| BEARING | S 77-32-15 E / | S 62-32-57 W / | S 56-00-35 W / | | | | |
| HORZ. DISTANCE | 12.664 | 2.334 | 15.881 | 15.465 | 2.992 3.657 | | |
| COSINE-BEARING | .21588 | .46098 | .55905 | 10,669.681 | | | |
| STA. LAT. | 10 672.414 | 10 669.681 | 10 685.142 | | | | |
| DIFF. | -2.733 / | -1.076 / | -8.878 / | 7.268 / | -2.640 / | | |
| F.S. LAT. | 10 669.681 N | 10 668.605 N | 10 676.264 N | 10,676.749 N | 10 674.309 N | N | N |
| SINE BEARING | .97644 | .88740 | .82914 | | | | |
| STA. DEP. | 7558.610 | 7570.976 | 7541.637 | 7570.976 | | | |
| DIFF. | +12.366 / | -2.071 / | -13.168 / | 13.650 / | -2.531 / | | |
| F.S. DEP. | 7570.976 E | 7568.905 E | 7528.469 E | 7584.627 E | 7582.096 E | E | E |
| GRADE CALC. | | | | | | | |
| | 1162.692 | 1163.522 | | 1160.389 | 1160.302 | | |
| | 1159.232 | 1159.605 | | 1156.758 | 1157.343 | | |
| F.S. GRADE ELV. | 3.460 M | 3.917 | | 3.631 M. | 2.959 M. | | |
| GRADE CHAIN | 11.352 FT | 12.851 | | 11.913 FT. | 9.708 FT | | |
| OFFSETS | LEFT RIGHT | PLUS MINUS | L. R. | P. M. | L. R. | P. M. | L. R. |
| CALCULATED BY: | ROA | ROA | ROA | IB | IB | | |
| CHECKED BY: | ☑ | ☑ | ☑ | ROA | ROA | | |
| DATE | 7/10/75 | 7/10/75 | 7/10/75 | 11/10/75 | 11/10/75 | | |

| | | | | | | |
|-------------------|-----------------|------------------|-----------------|---------------|---------------|---------------|
| B.S. | 75 - 026 | 75 - 027 | 75 - 027 | 75 - 028 | LP 28 | LP28 |
| S.T.A. | 75 - 027 | 75 - 028 | 75 - 028 | LP 28 | 031 A | 75-031A |
| F.S. | 75 - 028 | LP 24 | LP - 25 | TP | Ⓐ 034 | Ⓑ LP29 |
| MEAS. DISTANCE | 135.70 (41.36) | 9.73 (2.966) | 6.49 (1.978) | | 27.328 | 29.026 |
| VERT. ANGLE | - 4° 04' 25" | + 6° 46' 30" | + 10° 21' 25" | - 7° 20' 35" | - 1° 20' 35" | - 1° 00' 35" |
| SINE - V.A. | - 0.07104 | + 0.11797 | + 0.02368 | | | |
| COSINE - V.A. | 0.99147 | 0.99302 | | | | |
| STA. ELEVATION | 1172.395 M | 1166.915 | 1166.915 | | 1159.468 | |
| H.I. | - 9.94 (-3.030) | - 10.50 (-3.200) | - 3.200 | | - 3.530 | - 3.530 |
| INST. HEIGHT | 1169.365 | 1163.715 | 1163.715 | | 1155.938 | 1155.938 |
| DISTANCE | - 2.938 | + 0.350 | + 0.047 | | | |
| DIFF. | 1166.427 | 1164.065 | 1163.762 | | 1155.297 | 1155.427 |
| H.P. | + 1.60 (0.488) | + 10.38 (3.164) | + 10.58 (3.225) | | + 0.310 | + 0.355 |
| F.S. ELEVATION | 1166.915 | 1167.229 | 1166.987 | | 1155.607 | 1155.782 |
| AZ. B.S. TO STA. | 79° 36' 50" | 122° 25' 50" | 122° 25' 50" | | 43 48 09 | |
| ±180 - 00' - 00" | | | | | | |
| AZ. STA. TO B.S. | 259 36 50 | | | | | |
| HORZ. ANGLE | 222° 49' 00" | 001° 19' 25" | 297° 11' 45" | | 180° 00' 00" | 180° 00' 00" |
| - 360 - 00' - 00" | | | | | | |
| AZ. STA. TO F.S. | 122° 25' 50" | 303° 45' 15" | 239° 37' 35" | 7.39° 37' 35" | 43 48 09 | 43 48 09 |
| BEARING | | | | | | |
| HORZ. DISTANCE | 41.257 | 2.945 | 1.977 | 20.00 | 27.320 | 29.021 |
| COSINE BEARING | | | | | 1.701 | |
| STA. LAT. | 10,707.145 | 10,685.020 | 10,685.020 | 10,684.02 | 10,679.828 | 10,679.828 |
| DIFF. | | | | | | |
| F.S. LAT. | 10,685.020 N | 10,686.656 N | 10,684.020 N | 10,673.907 N | 10,699.547 N | 10,700.773 N |
| SINE BEARING | | | | | 7609.242 | |
| STA. DEP. | 7506.815 | 7541.638 | 7541.638 | 7,539.932 | 7,587.385 | 7,587.385 |
| DIFF. | | | | | | |
| F.S. DEP. | 7541.638 E | 7539.189 E | 7539.932 E | 7,522.677 E | 7,606.295 E | 7607. (412) E |
| GRADE CALC. | | | | | | 412 |
| | 2.8%: 1169.255' | 1163.974 (A.38) | 1163.974 a 28 | | 1150.464 | |
| | - 5.281 | + .377 | + .253 | | 1155.607 | 1155.782 |
| F.S. GRADE ELV. | 1163.974 | 1164.351 | 1164.227 | | 1151.936 | 1151.970 |
| GRADE CHAIN | 2.941 | 2.878 | 2.760 | | 3.671 = 12.04 | 3.812 = 12.51 |
| OFFSETS | LEFT RIGHT | PLUS MINUS | L R | P M | L R | P M L R |
| CALCULATED BY: | LB | LB | LB | | LB | LB |
| CHECKED BY: | ROA | ROA | ROA | | ROA | ROA |
| DATE | 30 SEP 75 | 30 SEP 75 | 30 SEP 75 | | 17 OCT 75 | 17 OCT 75 |

| | | | | | | | | | | |
|------------------|--------------|--------------|--------------|---------------|-------------|----|----|----|----|----|
| B.S. | | 75-033 | 75-033 | | | | | | | |
| S.T.A. | C-3 | 75-032 | 75-032 | PLS. SEE DWG | No. 666-442 | | | | | |
| F.S. | C-2 | 3A RAIL | 4 RAIL | | U/G CAPS | | | | | |
| MEAS. DISTANCE | | 5.026 | 4.788 | LOOKING AT FW | | | | | | |
| VERT. ANGLE | | + 0-54.40 | + 0-54.40 | | | | | | | |
| SINE - V.A. | | .01590 | .01590 | | | | | | | |
| COSINE - V.A. | | .99987 | .99987 | | | | | | | |
| STA. ELEVATION | | 1168.326 | 1168.326 | | | | | | | |
| H.I. | | - 0.806 | - 0.806 | | | | | | | |
| INST. HEIGHT | | 1167.520 | 1167.520 | | | | | | | |
| DISTANCE | | + 0.080 | + 0.076 | | | | | | | |
| DIFF. | | 1167.600 | 1167.596 | | | | | | | |
| H.P. | | + 6.830 | + 11.588 | | | | | | | |
| F.S. ELEVATION | | 1174.430 ✓ | 1179.184 ✓ | | | | | | | |
| AZ. B.S. TO STA. | | 297-56-21 | | | | | | | | |
| ±180 - 00' - 00" | | 180 - | | | | | | | | |
| AZ. STA. TO B.S. | | 177 56-21 | | | | | | | | |
| HORZ. ANGLE | | 180-00-00 | | | | | | | | |
| -360 - 00' - 00" | | 297-56-21 | | | | | | | | |
| AZ. STA. TO F.S. | 66-17-59 | | | | | | | | | |
| BEARING | N 66-17-59 E | N 82-03-39 W | N 82-03-39 W | | | | | | | |
| HORZ. DISTANCE | 11.480 | 5.025 | 4.787 | | | | | | | |
| COSINE BEARING | .40195 | .13812 | .13812 | | | | | | | |
| STA. LAT. | 10 684.191 | 10 675.805 | 10 675.805 | | | | | | | |
| DIFF. | + 4.614 | + 0.694 | + 0.661 | | | | | | | |
| F.S. LAT. | 10 688.805 N | 10 676.499 N | 10 676.466 N | | | | | | | |
| SINE BEARING | .91566 | .99042 | .99042 | | | | | | | |
| STA. DEP. | 7 593.807 | 7533.821 | 7 533.821 | | | | | | | |
| DIFF. | + 10.512 | - 4.977 | - 1.741 | | | | | | | |
| F.S. DEP. | 7 604.319 E | 7528.844 E | 75 28.080 E | | | | | | | |
| GRADE CALC. | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| F.S. GRADE ELV. | | | | | | | | | | |
| GRADE CHAIN | | | | | | | | | | |
| OFFSETS | LEFT | RIGHT | PLUS | MINUS | L. | R. | P. | M. | L. | R. |
| CALCULATED BY: | | | | | | | | | | |
| CHECKED BY: | | | ROA | JC | ROA | JC | | | | |
| DATE | | | | | | | | | | |
| FIELD PAGE NO. | | | | | | | | | | |



| | | | | | | | | | | |
|------------------|--------------|---------------|--------------|---|---|----|----|----|----------|----|
| B.S. | | 75-033 | 75-033 | | | | | | | |
| S.T.A. | C-3 | 75-032 | 75-032 | PLS. SEE DWG | No. 666-44r | | | | | |
| F.S. | C-2 | 3A RAIL | 4 RAIL | | U/G CAPS | | | | | |
| MEAS. DISTANCE | | 5.026 | 4.788 | LOOKING AT FW | | | | | | |
| VERT. ANGLE | | + 0 - 54.40 | + 0 - 54.40 |  |  | | | | | |
| SINE - V.A. | | .01590 | .01590 | | | | | | | |
| COSINE - V.A. | | .99987 | .99987 | | | | | | | |
| STA. ELEVATION | | 1168.376 | 1168.376 | | | | | | 0.305 M. | |
| H.I. | | - 0.806 | - 0.806 | | | | | | | |
| INST. HEIGHT | | 1167.570 | 1167.570 | | | | | | | |
| DISTANCE | | + 0.080 | + 0.076 | | | | | | | |
| DIFF. | | 1167.600 | 1167.596 | | | | | | | |
| H.P. | | + 6.830 | + 11.588 | | | | | | | |
| F.S. ELEVATION | | 1174.430 | 1179.184 | | | | | | | |
| AZ. B.S. TO STA. | | 297 - 56 - 21 | | | | | | | | |
| ±180 - 00' - 00" | | 180 - | | | | | | | | |
| AZ. STA. TO B.S. | | 177 56 - 21 | | | | | | | | |
| HORZ. ANGLE | | 180 - 00 - 00 | | | | | | | | |
| -360 - 00' - 00" | | 297 - 56 - 21 | | | | | | | | |
| AZ. STA. TO F.S. | 66-17-59 | | | | | | | | | |
| BEARING | N 66-17-59 E | N 82-03-39 W | N 82-03-39 W | | | | | | | |
| HORZ. DISTANCE | 11.480 | 5.025 | 4.787 | | | | | | | |
| COSINE BEARING | .40195 | .13812 | .13812 | | | | | | | |
| STA. LAT. | 10 684.191 | 10 675.805 | 10 675.805 | | | | | | | |
| DIFF. | + 4.614 | + 0.694 | + 0.661 | | | | | | | |
| F.S. LAT. | 10 688.805 N | 10 676.499 N | 10 676.466 N | | | | | | | |
| SINE BEARING | .91566 | .99042 | .99042 | | | | | | | |
| STA. DEP. | 7 593.807 | 7533.821 | 7 533.821 | | | | | | | |
| DIFF. | + 10.512 | - 4.977 | - 1.741 | | | | | | | |
| F.S. DEP. | 7 604.319 E | 7528.844 E | 7528.080 E | | | | | | | |
| GRADE CALC. | | | | | | | | | | |
| | | | | | | | | | | |
| F.S. GRADE ELV. | | | | | | | | | | |
| GRADE CHAIN | | | | | | | | | | |
| OFFSETS | LEFT | RIGHT | PLUS | MINUS | L. | R. | P. | M. | L. | R. |
| CALCULATED BY: | | | | | | | | | | |
| CHECKED BY: | | | ROA | JC | ROA | JC | | | | |
| DATE | | | | | | | | | | |



11.357

0.055
4.733
= 0.016860

CHECK SHEET

WORK PLACE

SURVEY CALCULATION SHEET

PAGE NO. 23

| | | | | | | | |
|---------------------------------------|--------------|--------------|---------------|-----------------|-----------------|--------------------------------------|--------------------------------------|
| B.S. | 033 | 033 | 031-A | 031-A | 031-A | 121 A | 031-A |
| S.T.A. | 032 | 032 | 034 | 034 | 034 | 034 | 034 |
| F.S. | 035 (Raise) | 036 (Raise) | TP 1 (Pickup) | TP - 2 (Pickup) | TP - 3 (Pickup) | 1P-30 | 037 |
| MEAS. DISTANCE | 4.645 | 6.364 | 21.27 | 42.10 | 58.60 | 43.065 | 49.115 |
| VERT. ANGLE | | | | | | | |
| SINE - V.A. | | | | | | | |
| COSINE - V.A. | | | | | | | |
| STA. ELEVATION | 1168.326 | 1168.326 | 1155.607 | 1155.607 | 1155.607 | 1155.607 | 1155.607 |
| H.I. | - 0.727 | - 0.727 | - 3.118 | | | - 3.075 | - 3.075 |
| INST. HEIGHT | 1167.599 | 1167.599 | 1152.489 | | | 1152.532 | |
| DISTANCE | | | | | | | |
| DIFF. | | | | | | | |
| H.P. | + 11.232 | + 124.262 | 0.000 | 0.000 | 0.000 | + 2.287 | + 2.801 |
| F.S. ELEVATION | 1178.046 | 1191.977 | 1154.82 ✓ | 1152.344 ✓ | 1152.114 ✓ | 1155.664 ✓ | 1155.791 ✓ |
| AZ. B.S. TO STA. ± 180 - 00' - 00" | 277 56 21 | 277 56 21 | 43° 48' 09" | 43° 48' 09" | 43° 48' 09" | 43 48 09 | 43 48 09 |
| AZ. STA. TO B.S. | | | | | | | |
| HORZ. ANGLE - 360 - 00' - 00" | 180° 00' 00" | 180 00 00 | 349° 49' | 184° 37' | 185° 20' | 179° 59' 50" | 179° 59' 50 |
| AZ. STA. TO F.S. | 277 56 21 | 277 56 21 | 213° 37' 09" | 48 25 09 | 44 06 09 | 43° 47' 59" | 43° 47' 59" |
| BEARING | | | | | | | |
| HORZ. DISTANCE | 4.578 | 6.363 | 21.34 | 42.099 | 58.599 | 43.057 | 49.113 |
| COSINE BEARING | | | | | | | |
| STA. LAT. | 10,675.805 | 10,675.805 | 10,617.547 | | | 10,699.547 | 10,699.547 |
| DIFF. | | | | | | | |
| F.S. LAT. | 10,676.437 N | 10,676.684 N | 10,681.776 N | 10,727.487 N | 10,741.603 N | 10,730.624 ✓ N | 10,734.795 ✓ N |
| SINE BEARING | | | | | | | |
| STA. DEP. | 7,533.821 | 7,533.821 | 7,606.295 | | | 7,606.295 | 7,606.295 |
| DIFF. | | | | | | | |
| F.S. DEP. | 7,529.287 E | 7,527.519 E | 7,594.480 E | 7,637.786 E | 7,647.101 E | 7,636.096 ✓ E | 7,640.288 ✓ E |
| GRADE CALC. | | | | | | | |
| F.S. GRADE ELV. | | | | | | 1152.795 | 1152.916 |
| GRADE CHAIN | | | | | | 2.869 | 2.875 |
| OFFSETS | LEFT RIGHT | PLUS MINUS | L. R. | P. M. | L. R. | P. (9.413) ^M _B | L. (9.432) ^R _B |
| CALCULATED BY: | NB | NB | NB | NB | NB | NB | NB |
| CHECKED BY: | | | | | | | |
| DATE | | | | | | | |

WORK PLACE

SURVEY CALCULATION SHEET

PLS. SEE NEW CALC. ON P. 29 PAGE NO. 24 ^{1155 187}

| | | | | | | | |
|-------------------|--------------|--------------|--------------|----------------|---------------|----------------|----------------|
| B.S. | 034 | 031A | 031A | 75-034 DON'T | 031A | 034 | 75-031A |
| S.T.A. | 031-A | 038 | 75-034 | 75-039 USE | 75-034 | 040 | 75-038 |
| F.S. | 038 | LP-31 | 75-039 | LP32 ELEV. | 040 | LP33 | 75-041 |
| MEAS. DISTANCE | 9.040 | 2.530 | 6.873 | 2.097 PLS. SEE | | | 23.476 |
| VERT. ANGLE | | | + 5° 11' 30" | + 17° 36' 30" | | | |
| SINE - V.A. | | | .09049 | .30271 | | | 1.627M |
| COSINE - V.A. | | | .99590 | .95388 | | | |
| STA. ELEVATION | 1159.468 | 1157.687 | 1155.607 | 1154.622 | 1155.607 | 1155.142 | 1157.687 |
| H.I. | -3.203 | -3.390 | -2.679 | -1.250 | -2.454 | -1.890 | 3.207 |
| INST. HEIGHT | 1156.265 | | 1152.928 | 1153.372 | | | |
| ✓ DISTANCE | | | + .621 | + .634 | 18.517 | 4.484 | |
| DIFF. | | | 1153.549 | 1154.006 | Vert .392 | Vert .753 | |
| H.P. | + 0.385 | + 2.752 | +1.073 | +1.750 | +1.597 | +1.183 | 2.618 |
| F'S ELEVATION | 1157.687 | 1156.845 | 1154.622 ✓ | 1155.756 | 1155.142 ✓ | 1155.186 ✓ | 1158.725 ✓ |
| AZ. B.S. TO STA. | 223° 48' 09" | 48 30 44 | 43° 48' 09" | 355° 46' 09" | 43° 48' 09" ✓ | 44° 32' 59" ✓ | 48° 30' 44" |
| ±180 - 00' - 00" | | | | | | | |
| AZ. STA. TO B.S. | | | | | | | |
| HORZ. ANGLE | 604° 42' 35" | 218 53 20 | 131° 58' 00" | 199° 20' 50" | 180° 44' 50" | 128° 45' 35" | 218° 20' 15" |
| - 360 - 00' - 00" | | | | | | | |
| AZ. STA. TO F.S. | 48° 30 44 | 87 24 04 | 355° 46' 09" | 15° 06' 59" | 44° 32' 59" ✓ | 353° 18' 33" ✓ | 86° 50' 59" |
| BEARING | | | | | | | |
| HORZ. DISTANCE | 6.980 | 2.522 | 6.845 | 1.999 | 18.513 | 4.420 | 23.420 |
| COSINE BEARING | | | | | | | |
| STA. LAT. | 10,679.826 | | 10,699.547 | 10,706.373 | 10,699.547 | 10,712.740 | 10,685.777 |
| DIFF. | | | | | | | |
| F.S. LAT. | 10,685.777 N | 10,685.891 N | 10,706.373 N | 10,708.303 N | 10,712.740 N | 10,717.130 N | 10,687.064 N |
| SINE BEARING | | | | | | | |
| STA. DEP. | 7,587.385 | | 7,606.295 | 7,605.790 | 7,606.295 | 7,619.282 | 7,594.112 |
| DIFF. | | | | | | | |
| F.S. DEP. | 7,594.112 E | 7,596.631 E | 7,605.790 E | 7,606.311 E | 7,619.282 E | 7,618.767 E | 7,617.497 E |
| GRADE CALC. | | | | N.B. | | | |
| | | | | ELEV. OF LP32 | | | Calc. GR. 5.5% |
| | | | | = 1155.187 | | | |
| F.S. GRADE ELV. | 1154.683 | | | | 1152.306 ✓ | | 1155.894 ✓ |
| GRADE CHAIN | | | | | | | 2.831 |
| OFFSETS | LEFT RIGHT | PLUS MINUS | L. R. | P. M. | L. R. | P. M. | L. R. |
| CALCULATED BY: | LPB | LPB | Jo | Jo | Jo | Jo | Jo |
| CHECKED BY: | Jo | Jo | Jo | Jo | Jo | Jo | ROA |
| DATE | Nov 7/75 | Nov 7/75 | Nov 9/75 | Nov 9/75 | Nov. 10/75 | Nov. 10/75 | 12 11 75 |

| | | | | | | | |
|-------------------|------------------|-------------------------|------------------------|-------------------------|-------------------------|----------------------------|-------|
| B.S. | 75-038 | 75-040 | 75-040 | 75-034 | 75-040 | | |
| S.T.A. | 75-041 | 433 | 75-042 | 75-040 | 75-044 | | |
| F.S. | LP34 | 75-042 ✓ | LP35 ✓ | 75-044 | 75-043 | | |
| MEAS. DISTANCE | 2.725 | 17.050 | 2.807 | 23.497 | 30.294 | | |
| VERT. ANGLE | | + 05-29-20 | 0 | - 00-16-40 | + 00-00-35 | PLS. SEE NEW CALC. ON P-29 | |
| SINE - V.A. | .209M | .09565 | | .00485 | .00017 | | |
| COSINE - V.A. | | .99541 | | .99999 | 1.0000 | | |
| STA. ELEVATION | 1158.725 | 1155.186 ⁰⁰³ | 1155.622 | 1155.142 ⁰⁰³ | 1155.949 ⁰⁰³ | EL. IS GOOD LESS .003 | |
| H.I. | 2.896 | - 1.582 | - 2.316 | - 1.987 | - 2.502 | | |
| INST. HEIGHT | | 1153.604 | 1153.306 | 1153.155 | 1153.447 | | |
| V. DISTANCE | | + 1.631 | - | - 0.114 | + .005 | | |
| DIFF. | | 1155.235 | | 1153.041 | 1153.452 | | |
| H.P. | 2.597 | + 0.387 ⁰⁰³ | + 2.414 ⁰⁰³ | + 2.908 ⁰⁰³ | + 2.420 ⁰⁰³ | | |
| F.S. ELEVATION | 1158.635 | 1155.622 | 1155.720 | 1155.949 | 1155.872 | | |
| AZ. B.S. TO STA. | 86°50'59" | 353-18-33 | 353-34-00 | 44-32-59 | 43-57-49 | | |
| ±180 - 00' - 00" | | 180 - | 180 - | 180 - 00 - 00 | 180 - 00 - 00 | | |
| AZ. STA. TO B.S. | | 173-18-33 | 173-34-00 | 224-32-59 | 223-57-49 | | |
| HORZ. ANGLE | 214°19'30" | 180-19-30 | 320-01-10 | 179-24-50 | 179-18-20 | | |
| - 360 - 00' - 00" | | 353-38-03 | 443-35-10 | 403-57-49 | 403-16-09 | | |
| AZ. STA. TO F.S. | 121°10'29" | | 133-35-10 | 43-57-49 | 43-16-09 | | |
| BEARING | | N 6-21-57 W | S 46-24-50 E | N 43-57-49 E | N 43-16-09 E | | |
| HORZ. DISTANCE | 2.717 | 16.971 | 2.807 | 23.497 | 30.294 | | |
| COSINE BEARING | | .99383 | .68944 | .71978 | .72814 | | |
| STA. LAT. | 10687.064 | 10 717.130 | 10 733.996 | 10 712.740 | 10 729.653 | | |
| DIFF. | | + 16.866 | - 1.935 | + 16.913 | + 22.058 | | |
| F.S. LAT. | 10685.658 | 10 733.996 N | 10 732.061 N | 10 729.653 N | 10 751.711 N | N | N |
| SINE BEARING | | .11087 | .72434 | .69420 | .68543 | | |
| STA. DEP. | 7617.497 | 7 618.767 | 7 616.885 | 7 619.282 | 7 635.594 | | |
| DIFF. | | - 1.882 | + 2.033 | + 16.312 | + 20.764 | | |
| F.S. DEP. | 7619.822 | 7 616.885 E | 7 618.918 E | 7 635.594 E | 7 656.358 E | E | E |
| GRADE CALC. | | | | | | | |
| | 10671.535 | | | | | | |
| | 7643.165 | | | | | | |
| E.S. GRADE ELV. | TH. EL. 1156.329 | 1153.154 ✓ | 1153.603 ✓ | | | | |
| GRADE CHAIN | | 2.468 M | 2.117 M | | | | |
| OFFSETS | LEFT RIGHT | PLUS MINUS | L. R. | P. M. | L. R. | P. M. | L. R. |
| CALCULATED BY: | | ROA | ROA | ROA | ROA | | |
| CHECKED BY: | ROA | WS | WS | WS | WS | | |
| DATE | 12 11 75 | 15/11/75 | 15/11/75 | 20 11 75 | 20 11 75 | | |

| | | | | | | | |
|---------------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------|
| B.S. | | | | | | | |
| S.T.A. | BL 72-6N | BL 72-6N | 2N-KIT. | E.O.C. 2N/E | BL 72W/3N | BL 72W' | |
| F.S. | E.O.C. 6N/W | E.O.C. -6N/E | E.O.C. 2N/E | B.O.C. 2N/E | 3N Decl. W | 3N/27Y | |
| MEAS. DISTANCE | | | | | | | |
| VERT. ANGLE | | | | | | | |
| SINE - V.A. | | | | | | | |
| COSINE - V.A. | | | | | | | |
| STA. ELEVATION | 1153.000 | 1153.000 | 1150.464 | | | | |
| H.I. | | | | | | | |
| INST. HEIGHT | | | | | | | |
| DISTANCE | | | | | | | |
| DIFF. | | | | 4PC. D. = 11.781 | | | |
| H.P. | | | | | | | |
| F.S. ELEVATION | | | | | | | |
| AZ. B.S. TO STA. | | | | | | | |
| ±180 - 00' - 00" | | | | | | | |
| AZ. STA. TO B.S. | | | | | | | |
| HORZ. ANGLE | | | | | | | |
| - 360 - 00' - 00" | | | | | | | |
| AZ. STA. TO F.S. | 1148.360 | 1154.000 | | | | | |
| BEARING | N 46 - 12 - 01 W | S 46 - 12 - 01 E | S 46 - 12 - 01 E | N 68 - 42 - 01 W | N 46 - 12 - 01 W | N 43 - 47 - 59 E | |
| HORZ. DISTANCE | 29.000 | 20.000 | 28.000 | 11.480 | 24.000 | 9.440 | |
| COSINE BEARING | .69214 | .69214 | .69214 | .36325 | .69214 | | |
| STA. LAT. | 10 788.254 | 10 788.254 | 10 700.286 | 10 680.906 | 10 722.257 | 10 656.259 | |
| DIFF. | + 20.072 | - 13.843 | - 19.380 | + 4.170 | + 16.611 | + 65.998 | |
| F.S. LAT. | 10 808.326 N | 10 774.411 N | 10 680.906 N | 10 685.076 N | 10 738.868 N | 10 722.257 N | N |
| SINE BEARING | .72176 | .72176 | .72176 | .93169 | .72176 | | |
| STA. DEP. | 7 693.601 | 7 693.601 | 7 609.242 | 7 629.451 | 7 630.311 | 7 567.022 | |
| DIFF. | - 20.931 | + 14.435 | + 20.209 | - 10.696 | - 17.322 | + 63.289 | |
| F.S. DEP. | 7 672.670 E | 7 708.036 E | 7 629.451 E | 7 618.755 E | 7 612.989 E | 7 630.311 E | E |
| GRADE CALC. | | | | | | | |
| F.S. GRADE ELV. TH. ELI → | | 1154.000 | 1158.038 | | | | |
| GRADE CHAIN | | | | | | | |
| OFFSETS | LEFT RIGHT | PLUS MINUS | L. R. | P. M. | L. R. | P. M. | L. R. |
| CALCULATED BY: | ROA | | ROA | | | | |
| CHECKED BY: | | | | | | | |
| DATE | | | | | | | |

WORK PLACE

SURVEY CALCULATION SHEET

PLS. SEE NEW PAGE NO. 28
DATE: ON P-29

| | | | | | | |
|--------------------|-----------------------|--------------|--------------|--------------|---------------|--------------|
| B.S. | 75-038 | 75-041 | 75-041 | 75-040 | 75-034 | 75-044 |
| S.T.A. | 75-041 | 75-045 | 75-045 | 75-034 | 75-047 | 75-043 |
| F.S. | 75-045 | 75-046 | 4P 36 | 75-047 | 4P 37 | 75-048 |
| MEAS. DISTANCE | 11.643 | 9.738 | 8.144 | 5.627 | 7.849 | 31.288 |
| VERT. ANGLE | +16-34-05 | +21-10-40 | +27-53-40 | 01-05-50 | +02-01-45 | +00-39-45 |
| SINE - V.A. | .28516 | .36126 | .46784 | .01915 | .03540 | .01156 |
| COSINE - V.A. | .95848 | .93246 | .88381 | .99982 | .99937 | .99993 |
| STA. ELEVATION | 1158.725 | 1159.933 | 1159.933 | 1155.607 | 1155.213 | 1155.872 |
| H.I. | -2.807 | -3.298 | -3.298 | -2.618 | -2.103 | -2.176 |
| INST. HEIGHT | 1155.918 | 1156.635 | 1156.635 | 1152.989 | 1153.110 | 1153.696 |
| DISTANCE | +3.320 | +3.518 | +3.810 | -0.108 | +0.278 | +0.362 |
| DIFF. | 1159.238 | 1160.153 | 1160.445 | 1152.881 | 1153.388 | 1154.058 |
| H.P. | +0.695 | +0.682 | +0.195 | +2.332 | +1.985 | +2.606 |
| F.S. ELEVATION | 1159.933 | 1160.835 | 1160.640 | 1155.213 | 1153.373 | 1156.664 |
| AZ. B.S. TO STA. | 86-50-59 | 110-01-39 | 110-01-39 | | 20-52-44 | 43-16-09 |
| ±180-00-00" | 180-00-00 | 180-00-00 | 180 | | 180 | 180 |
| AZ. STA. TO B.S. | 266-50-59 | 290-01-39 | 290-01-39 | 44-32-59 | 200-52-44 | 223-16-09 |
| HORZ. ANGLE | 203-10-40 | 203-13-00 | 203-17-40 | 336-19-45 | 149-52-20 | 179-19-15 |
| -360-00-00" | 470-01-39 | 493-19-39 | 493-19-19 | 386-52-44 | 349-59-04 | 402-35-24 |
| AZ. STA. TO F.S. | 110-01-39 | 133-19-39 | 133-19-19 | 26-52-44 | 349-59-04 | 42-35-24 |
| BEARING | S 69-58-21 E | S 46-40-21 E | S 46-40-41 E | N 20-52-44 E | N 10-00-56 K' | N 42-35-24 E |
| HORZ. DISTANCE | 11.160 | 9.080 | 7.198 | 5.626 | 7.844 | 31.286 |
| COSINE BEARING | .34248 | .68617 | .68610 | .93434 | .92476 | .73622 |
| STA. LAT. | 10 687.064 | 10 683.242 | 10 683.242 | 10 704.527 | 10 704.804 | 10 751.711 |
| DIFF. | -3.822 | -6.230 | -4.938 | +5.257 | +7.724 | +23.033 |
| F.S. LAT. | 10 683.242 N | 10 677.012 N | 10 678.304 N | 10 704.804 N | 10 712.528 N | 10 774.744 N |
| SINE BEARING | .93953 | .72744 | .72751 | .35620 | .17392 | .67675 |
| STA. DEP. | 7 617.497 | 7 627.982 | 7 627.982 | 7 606.295 | 7 608.300 | 7 656.358 |
| DIFF. | +10.485 | +6.605 | +5.237 | +2.005 | -1.364 | +2.173 |
| F.S. DEP. | 7 627.982 E | 7 634.587 E | 7 633.219 E | 7 608.300 E | 7 606.936 E | 7 677.531 E |
| GRADE CALC. | | | | | | |
| TH. EL. OF 75-041 | 12 881 M. 0.1% | | | | | |
| F.S. GRADE ELV. | 1155.894 | | | | | |
| GRADE/CHAIN=75-045 | +1.677 | 1159.024 | 1158.723 | 1153.125 | 1151.566 | |
| OFFSETS | LEFT RIGHT PLUS MINUS | 3.000 L. | R. +3.89 | M. = 6.85 | 3.817-125 | P. M. L. R. |
| CALCULATED BY: | ROA | ROA 8.94 | ROA 9.89 | ROA | ROA | |
| CHECKED BY: | WS | WS | WS | WS | WS | |
| DATE | | | | | | |

1.781
1.1
1.881
2.4
0.481 ✓

| | <u>SAMP</u> | <u>GALE</u> | | | | | | | |
|------------------|--------------|--------------|--------------|--------------|-------------|-------|-------|--|--|
| B.S. | 75-034 | 75 043 | 75 040 | 75 042 | | | | | |
| S.T.A. | 75-047 | 75 048 | 75 042 | 75 049 | | | | | |
| F.S. | LP-38 | LP 37 | 75 049 | LP 39 | | | | | |
| MEAS. DISTANCE | 4.356 | 3.947 | 25.131 | 3.862 | | | | | |
| VERT. ANGLE | + 11 17 25 | + 6 47 30 | - 5 43 10 | 0 | | | | | |
| SINE - V.A. | .19578 | .11826 | .09966 | 0 | | | | | |
| COSINE - V.A. | .98065 | .99298 | .99502 | 1.0 | | | | | |
| STA. ELEVATION | 1155.213 | 1156.624 | 1155.619 | 1151.130 | | | | | |
| H.I. | -2.207 | -2.947 | -2.385 | -2.58 | | | | | |
| INST. HEIGHT | 1153.006 | 1153.677 | 1153.234 | 1148.550 | | | | | |
| V DISTANCE | + .853 | + .467 | - 2.504 | 0 | | | | | |
| DIFF. | 1153.859 | 1154.144 | 1150.730 | 1148.550 | | | | | |
| H.P. | + 1.00 | + 2.088 | + .40 | + 3.28 | | | | | |
| F.S. ELEVATION | 1154.859 | 1156.232 | 1151.130 | 1151.830 | | | | | |
| AZ. B.S. TO STA. | 205 2' 44" | 43 18' 09" | 354 17 05 | 313 18 35 | | | | | |
| ±180 - 00' - 00" | +180 | +180 | -180 | -180 | | | | | |
| AZ. STA. TO B.S. | 200 52 44 | 223 18 09 | 174 17 05 | 133 18 35 | | | | | |
| HORZ. ANGLE | 143 56 40 | 207 14 20 | 139 01 30 | 00 30 00 | | | | | |
| -360 - 00' - 00" | 344 49 24 | 430 32 29 | 313 18 35 | 133 48 35 | | | | | |
| AZ. STA. TO F.S. | 344 49 24 | 70 32 29 | 313 18 35 | 133 48 35 | | | | | |
| BEARING | N 15 10 36 W | N 70 32 29 E | N 46 41 25 W | S 46 11 25 E | 46 11 25 | | | | |
| HORZ. DISTANCE | 4.272 | 3.919 | 25.006 | 3.862 | 50.0 | | | | |
| COSINE BEARING | .96512 | .33312 | .68594 | .69227 | .69227 | | | | |
| STA. LAT. | 10704.804 | 10773.816 | 10733.839 | 10750.992 | 10750.992 | | | | |
| DIFF. | 4.123 | 1.306 | + 17.153 | - 2.674 | - 34.614 | | | | |
| F.S. LAT. | 10708.927 N | 10775.122 N | 10750.992 N | 10748.318 N | 10716.378 N | | | | |
| SINE BEARING | .26180 | .94288 | .72766 | .72165 | .72165 | | | | |
| STA. DEP. | 7608.300 | 7678.432 | 7617.294 | 7599.098 | 7599.098 | | | | |
| DIFF. | - 1.118 | 3.695 | - 18.196 | + 2.787 | + 36.082 | | | | |
| F.S. DEP. | 7607.182 E | 7682.127 E | 7599.098 E | 7601.885 E | 7635.180 E | | | | |
| GRADE CALC. | | | | | | | | | |
| F.S. GRADE ELV. | | 1154.276 | 1148.517 | 1149.135 | | | | | |
| GRADE CHAIN | | 1.956 | 2.613 | 2.695 | | | | | |
| OFFSETS | LEFT RIGHT | PLUS MINUS | L. R. | P. M. | L. R. | P. M. | L. R. | | |
| CALCULATED BY: | wf | wf | wf | wf | | | | | |
| CHECKED BY: | ROA | ROA | ROA | ROA | | | | | |
| DATE | 11/27/75 | 11/27/75 | 12/3/75 | 12/3/75 | | | | | |

| | | | | | | | |
|------------------|---------------|---------------|---------------|---------------|--|--------------|----------------|
| B.S. | 75-050 | 75-048 | 75-048 | 75-050 | LP 41 | LP 40 | LP 40 |
| S.T.A. | 75-048 | 76-001 | 75-050 | LP 95 | 76-001 | 75-049 | 75-049 |
| F.S. | 76-001 | LP 44 | LP 45 | 76-002 | LP 46 | 76-003 | LP 47 |
| MEAS. DISTANCE | 26.90 | 1.987 | 14.234 | 2.743 | 2.652 | 44.150 | 46.924 |
| VERT. ANGLE | -00 45 30 | - 3 22 50 | + 12 42 00 | + 1 49 20 | + 45-53-40 | - 6 57 40 | - 7 27 40 |
| SINE - V.A. | | DESTROYED | | | .71806 | .12120 | .12985 |
| COSINE - V.A. | | | | | .69598 | .99263 | .99153 |
| STA. ELEVATION | 1156.624 | 1154.088 | 1157.251 | 1158.800 | 1154.088 | 1157.129 | 1157.129 |
| H.I. | - 2.73 | - .720 | - 2.520 | - 3.20 | - 1.690 | - 2.52 | - 2.52 |
| INST. HEIGHT | 1153.894 | 1153.368 | 1154.731 | 1155.600 | 1152.398 | 1148.609 | 1148.609 |
| DISTANCE | - .356 | - .117 | + 3.129 | + .087 | + 1.904 | - 5.351 | - 6.093 |
| DIFF. | 1153.538 | 1153.251 | 1157.860 | 1155.687 | 1154.302 | 1143.258 | 1142.516 |
| H.P. | + .550 | + 1.175 | + .94 | + 2.77 | 0 | + 2.14 | + 2.95 |
| F.S. ELEVATION | 1154.088 | 1154.426 | 1158.800 | 1158.457 | 1154.302 | 1145.398 | 1145.466 Below |
| AZ. B.S. TO STA. | | 1 51 29 | 60 40 19 | 97 02 39 | 1-31-51 | 133 50 35 | 133 50 35 |
| ±180 -00' -00" | | +180 | +180 | 180 | 180 - | +180 | +180 |
| AZ. STA. TO B.S. | 60 40 19 | 181 51 29 | 240 40 19 | 277 02 39 | 181-31-51 | 313 50 35 | 313 50 35 |
| HORZ. ANGLE | 301 11 10 | 131 12 45 | 216 22 20 | 37 49 00 | 135-08-40 | 359 58 40 | 359 57 00 |
| -360 -00' -00" | 361 51 29 | 313 04 14 | 457 02 39 | 314 51 39 | 316-40-31 | 673 49 15 | 673 47 35 |
| AZ. STA. TO F.S. | 51 29 | 313 04 14 | 97 02 39 | 314 51 39 | | 313 49 15 | 313 47 35 |
| BEARING | N 51 29 E | N 46 55 36 W | S 82 57 21 E | N 45 08 21 W | N 43-19-29 W | N 46 10-45 W | N 46 12 25 W |
| HORZ. DISTANCE | 26.90 | 1.984 | 13.895 | 2.742 | 1.846 | 43.825 | 46.527 |
| COSINE BEARING | | | | | .72747 | | |
| STA. LAT. | 10 773.816 | 10 800.702 | 10 780.219 | 10 778.515 | 10 800.702 | 10,750.992 | 10,750.992 |
| DIFF. | + 26,886 | + 1.355 | - 1.704 | + 1,934 | + 1.343 | 30.345 | 32.199 |
| F.S. LAT. | 10 800.702 N | 10 802.057 N | 10 778.515 N | 10 780.449 N | 10 802.045 N | 10 781.337 N | 10 783.191 N |
| SINE BEARING | | | | | .68614 | | |
| STA. DEP. | 7678.432 | 7679.304 | 7689.829 | 7703.619 | 7679.304 | 7599.098 | 7599.098 |
| DIFF. | + .872 | - 1.449 | + 13.781 | - 1.944 | - 1.267 | - 31.620 | - 33.585 |
| F.S. DEP. | 7679.304 E | 7677.855 E | 7703.610 E | 7701.675 E | 7678.037 E | 7567.478 E | 7565.513 E |
| GRADE CALC. | | | | | | | |
| | | | | | LP 46 WAS MOVED 0.093 M. TO THE LEFT - IN ORDER TO BE ON HEADINGS BEAR | | 1145.466 |
| | | | | | N 46-12-01 W | | - .394 |
| F.S. GRADE ELV. | @ 5' 1151.786 | @ 6' 1151.469 | @ 5' 1155.294 | @ 5' 1155.157 | @ 6' 1151.491 | | 1145.072 |
| GRADE CHAIN | | | | | 2.811 | SPAD BLASTED | |
| OFFSETS | LEFT RIGHT | PLUS MINUS | L. R. | P. M. | L. R. | P. M. | L. R. |
| CALCULATED BY: | WS | WS | WS | WS | WS | WS | WS |
| CHECKED BY: | | | | | | | |
| DATE | 01/12/76 | 01/12/76 | 01/12/76 | 01/12/76 | | ROA | ROA |
| FIELD PAGE NO | 115 | 115 | 115 | 115 | | 15/01/76 | 15/01/76 |

| | | | | | | | |
|---------------------|-------------------------|-------------------|--------------|------------------------|-----------------|---------------|----------|
| B.S. | 75-034 | 75-043 | | 75-041 | 75-041 | | |
| S.T.A. | 75-047 | 75-048 | | 75-045 | 75-045 | 75-049 | |
| F.S. | LP38 | LP37 | | 75-051 | LP43 | LP40 | 75-049 |
| MEAS. DISTANCE | 4.356 | 3.947 | | 15.347 | 12.927 | | |
| VERT. ANGLE | +11-17-25 | +6-47-30 | | +04-36-10 | +04-34-00 | | |
| SINE - V.A. | 19578 | .11826 | | .08025 | .07962 | | |
| COSINE - V.A. | .98064 | .99298 | | .99677 | .99683 | | |
| STA. ELEVATION | 1155.23 | 1156.624 | | 1159.933 | 1159.933 | | |
| H.I. | -2.207 | -2.947 | | -2.750 | -2.750 | | |
| INST. HEIGHT | 1153.006 | 1153.677 | | 1157.183 | 1157.183 | | |
| DISTANCE | +0.853 | +0.467 | | +1.232 | +1.029 | | |
| DIFF. | 1153.859 | 1154.144 | | 1158.415 | 1158.212 | | |
| H.P. | +1.000 | +2.088 | | +3.070 | +3.070 | | |
| F.S. ELEVATION | 1154.859 | 1156.232 | | 1161.485 | 1161.282 | | |
| AZ. B.S. TO STA. | 20-52-44 | 23-18-09 | | 110-01-39 | 110-01-39 | | |
| ±180-00'-00" | 180- | 180- | | 180 | 180 | | |
| AZ. STA. TO B.S. | 200-52-44 | 223-18-09 | | 290-01-39 | 290-01-39 | | |
| HORZ. ANGLE | 143-56-40 | 207-14-20 | | 203-40-00 | 203-41-50 | | |
| -360-00'-00" | 345-49-24 | 430-32-29 | | 493-41-39 | 493-43-29 | | |
| AZ. STA. TO F.S. | | 70-32-29 | | 133-41-39 | 133-43-29 | | |
| BEARING | N 15-10-36 W | N 70-32-29 E | | S 46-18-21 E | S 46-16-31 E | N 46-09-25 W | |
| HORZ. DISTANCE | 4.272 | 3.919 | | 15.297 | 12.886 | 4.514 | |
| COSINE BEARING | .96512 | .33312 | | .69081 | .69120 | | |
| STA. LAT. | 10 704.804 | 10 773.816 | | 10 683.242 | 10 683.242 | | |
| DIFF. | +4.123 | +1.305 | | -10.567 | -8.907 | | |
| F.S. LAT. | 10 708.927 | 10 775.121 | | 10 672.675 | 10 674.335 | 10 754.119 | |
| SINE BEARING | .26178 | .94288 | | .72303 | .72267 | | |
| STA. DEP. | 7608.300 | 7678.432 | | 7627.982 | 7627.982 | | |
| DIFF. | -1.118 | +3.695 | | +11.060 | +9.312 | | |
| F.S. DEP. | 7607.182 | 7682.127 | | 7639.042 | 7637.294 | 7595.842 | |
| GRADE CALC. | | 4.4% | | | | | |
| | | 1156.624 - | | 75-045 = 1157.571 | 1157.571 | | |
| | | 1154.104 | | DESIGN REVISED + 2.448 | +2.062 | | |
| THEORETICAL EL @ 5' | | 75-048 = 1154.104 | REAR = 2.520 | 75-051 = 1160.019 | LP43 = 1159.633 | | |
| F.S. GRADE ELV. | | LP37 = 1154.276 | 1156.232 | USED = 1158.772 | USED = 1158.386 | USED 1148.082 | 1148.804 |
| GRADE CHAIN | | 1154.276 | 1154.276 | 2.713 = 8.901 | 2.896 = 9.501 | 2.803 | 2.326 |
| OFFSETS | LEFT | RIGHT | PLUS | MINUS | | | |
| CALCULATED BY: | | ROA | | ROA | | | |
| CHECKED BY: | | WS | | WS | | | |
| DATE | | 27.11.75 | | 27.11.75 | | | |
| FIELD PAGE NO. | | | | 15.12.75 | 15.12.75 | | |

REDESIGNED DUE TO EAR AROUND POSITION

| | | | | | | | |
|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| B.S. | 75 050 | 75-050 | 75-041 | 75-045 | 75-051 | 75 049 | 76-003 |
| S.T.A. | LP 45 | LP 45 | 75-045 | 75-051 | 76-008 | 76 003 | 76-007 |
| F.S. | 76-004 | LP 48 | 75-051 | 76-008 | LP 50 | 76 007 | LP 52 |
| MEAS. DISTANCE | 10.205 | 13.533 | | 36.375 | 3.609 | 17.005 | 4.121 |
| VERT. ANGLE | + 00 50 00 | + 1 09 40 | | + 10-06-30 | + 25-26-00 | - 14-22-25 | - 13-40-20 |
| SINE - V.A. | .01454 | .02026 | RE-SURVEY | .17551 | .42946 | | |
| COSINE - V.A. | .99989 | .99979 | | .98448 | .90309 | | |
| STA. ELEVATION | 1158.800 | 1158.800 | | 1161.485 | 1167.224 | 1145.392 | 1142.276 |
| H.I. | - 3.24 | - 3.24 | | - 2.595 | - 1.390 | - 2.570 | - 3.455 |
| INST. HEIGHT | 1155.560 | 1155.560 | | 1158.890 | 1165.834 | 1142.822 | 1138.821 |
| DISTANCE | + .148 | + .274 | | + 6.384 | + 1.550 | - 4.221 | - .974 |
| DIFF. | 1155.708 | 1155.834 | | 1165.274 | 1167.384 | 1138.601 | 1137.847 |
| H.P. | + 2.82 | + 3.05 | | + 1.950 | 0 | + 3.675 | + 3.02 |
| F.S. ELEVATION | 1158.528 | 1158.884 | | 1167.224 | 1167.384 | 1142.276 | 1140.867 |
| AZ. B.S. TO STA. | 97 02 39 | | 110-01-39 | 133-38-59 | 134-13-09 | 313 48 05 | 334 21 35 |
| ±180 - 00' - 00" | +180 | | 180 | 180 | 180 | -180 | -180 |
| AZ. STA. TO B.S. | 277 02 39 | 277 02 39 | 290-01-39 | 313-38-59 | 314-13-09 | 133 48 05 | 154 21 35 |
| HORZ. ANGLE | 216 44 10 | 216 44 45 | 203-37-20 | 180-34-10 | 179-44-30 | 200 33 30 | 204 25 20 |
| - 360 - 00' - 00" | 493 46 49 | 493 47 24 | 493-38-59 | 494-13-09 | 493-57-39 | 334 21 35 | 358 46 55 |
| AZ. STA. TO F.S. | 133 46 49 | 133 47 24 | 133-38-59 | 134-13-09 | 133-57-39 | | |
| BEARING | S 46 13 11 E | S 46 12 36 E | S 46-21-01 E | S 45-46-51 E | S 46-02-21 E | N 25 38 25 W | N 01 13 05 W |
| HORZ. DISTANCE | 10.204 | 13.530 | 15.297 | 35.810 | 3.259 | 16.473 | 4.004 |
| COSINE BEARING | | | .69025 | .69741 | .69417 | | |
| STA. LAT. | 10 778.515 | 10 778.515 | 10 683.242 | 10 672.683 | 10 647.709 | 10 781.315 | 10 796.166 |
| DIFF. | - 7.060 | - 9.363 | - 10.559 | - 24.974 | - 2.262 | + 14.851 | + 4.003 |
| F.S. LAT. | 10 771.455 N | 10 769.152 N | 10 672.683 N | 10 647.709 N | 10 645.447 N | 10 796.166 N | 10 800.169 N |
| SINE BEARING | | | .72357 | .71667 | .71981 | | |
| STA. DEP. | 7703.610 | 7703.610 | 7 627.982 | 7 639.050 | 7 664.714 | 7 567.479 | 7 560.351 |
| DIFF. | + 7.367 | + 9.767 | + 11.068 | + 25.664 | + 2.346 | - 7.128 | - .085 |
| F.S. DEP. | 7710.977 E | 7713.377 E | 7 639.050 E | 7 664.714 E | 7 667.060 E | 7 560.351 E | 7 560.266 E |
| GRADE CALC. | | | | | | | |
| F.S. GRADE ELV. | 1155.809 | 1155.975 | | 1164.502 | 1165.023 | 1138.334 | 1138.391 |
| GRADE CHAIN | 2.719 | 2.909 | | 2.722 | 2.361 | 3.944m 12.94 | 2.476m 8.12' |
| OFFSETS | LEFT RIGHT | PLUS MINUS | L. R. | P. M. | L. R. | P. M. | L. R. |
| CALCULATED BY: | WS | WS | ROA | ROA | ROA | WS | WS |
| CHECKED BY: | ROA | ROA | WS | WS | WS | | |
| DATE | 18 01 76 | 18 01 76 | 8 02 76 | 8 02 76 | 8 02 76 | FEB 12/76 | FEB 12/76 |

| | | | | | | | |
|------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| B.S. | 75 050 | 75-050 | 75-041 | 75-045 | 75-051 | 75-049 | 76-003 |
| S.T.A. | LP 45 | LP 45 | 75-045 | 75-051 | 76-008 | 76003 | 76-007 |
| F.S. | 76-004 | LP 48 | 75-051 | 76-008 | LP 50 | 76007 | LP 52 |
| MEAS. DISTANCE | 10.205 | 13.533 | | 36.375 | 3.609 | 17.005 | 4.121 |
| VERT. ANGLE | + 00 50 00 | + 1 09 40 | | + 10-06-30 | + 25-26-00 | - 14-22-25 | - 13-40-20 |
| SINE - V.A. | .01454 | .02026 | RE-SURVEY | .17551 | .42946 | | |
| COSINE - V.A. | .99989 | .99979 | | .98448 | .90309 | | |
| STA. ELEVATION | 1158.800 | 1158.800 | | 1161.485 | 1167.224 | 1145.392 | 1142.276 |
| H.I. | - 3.24 | - 3.24 | | - 2.595 | - 1.390 | - 2.570 | - 3.455 |
| INST. HEIGHT | 1155.560 | 1155.560 | | 1158.890 | 1165.834 | 1142.822 | 1138.821 |
| DISTANCE | + .148 | + .274 | | + 6.384 | + 1.550 | - 4.221 | - .974 |
| DIFF. | 1155.708 | 1155.834 | | 1165.274 | 1167.384 | 1138.601 | 1137.847 |
| H.P. | + 2.82 | + 3.05 | | + 1.950 | e | + 3.675 | + 3.02 |
| F.S. ELEVATION | 1158.528 | 1158.884 | | 1167.224 | 1167.384 | 1142.276 | 1140.867 |
| AZ. BS TO STA. | 97 02 39 | | 110-01-39 | 133-38-59 | 134-13-09 | 313 48 05 | 334 21 35 |
| ±180 - 00' - 00" | +180 | | 180 | 180 | 180 | -180 | -180 |
| AZ. STA. TO B.S. | 277 02 39 | 277 02 39 | 290-01-39 | 313-38-59 | 314-13-09 | 133 48 05 | 154 21 35 |
| HORZ. ANGLE | 216 44 10 | 216 44 45 | 203-37-20 | 180-34-10 | 179-44-30 | 200 33 30 | 204 25 20 |
| -360 - 00' - 00" | 493 46 49 | 493 47 24 | 493-38-59 | 494-13-09 | 493-57-39 | 334 21 35 | 358 46 55 |
| AZ. STA. TO F.S. | 133 46 49 | 133 47 24 | 133-38-59 | 134-13-09 | 133-57-39 | | |
| BEARING | S 46 13 11 E | S 46 12 36 E | S 46-21-01 E | S 45-46-51 E | S 46-02-21 E | N 25 38 25 W | N 01 13 05 W |
| HORZ. DISTANCE | 10.204 | 13.530 | 15.297 | 35.810 | 3.259 | 16.473 | 4.004 |
| COSINE-BEARING | | | .69025 | .69741 | .69417 | | |
| STA. LAT. | 10 778.515 | 10 778.515 | 10 683.242 | 10 672.683 | 10 647.709 | 10781.315 | 10796.166 |
| DIFF. | - 7.060 | - 9.363 | - 10.559 | - 24.974 | - 2.262 | + 14.851 | + 4.003 |
| F.S. LAT. | 10 771.455 N | 10 769.152 N | 10 672.683 N | 10 647.709 N | 10 645.447 N | 10796.166 N | 10800.169 N |
| SINE BEARING | | | .72357 | .71667 | .71981 | | |
| STA. DEP. | 7703.610 | 7703.610 | 7 627.982 | 7 639.050 | 7 664.714 | 7567.479 | 7560.351 |
| DIFF. | + 7.367 | + 9.767 | + 11.068 | + 25.664 | + 2.346 | - 7.128 | - .085 |
| F.S. DEP. | 7710.977 E | 7713.377 E | 7 639.050 E | 7 664.714 E | 7 667.060 E | 7560.351 E | 7560.266 E |
| GRADE CALC. | | | | | | | |
| F.S. GRADE ELV. | 1155.809 | 1155.975 | | 1164.502 | 1165.023 | 1138.334 | 1138.391 |
| GRADE CHAIN | 2.719 | 2.909 | | 2.722 | 2.361 | 3.944m 12.94 | 2.476m 8.12' |
| OFFSETS | LEFT RIGHT | PLUS MINUS | L. R. | P. M. | L. R. | P. M. | L. R. |
| CALCULATED BY: | WS | WS | ROA | ROA | ROA | WS | WS |
| CHECKED BY: | ROA | ROA | WS | WS | WS | | |
| DATE | 18 01 76 | 18 01 76 | 8 02 76 | 8 02 76 | 8 02 76 | FEB 12 76 | FEB 12 76 |

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|------------------|--------------|--------------|----------------|---------------|-----------------|--------------|--------------|
| B.S. | 75 049 | 75-049 | 75-050 | LP 45 | 76-005 * | 76-006 | 76-003 |
| S.T.A. | 76 003 | 76-003 | LP-45 | 76-010 | 76-006 | 76 011 | 76-007 |
| F.S. | 76 009 | LP 51 | 76-010 | LP 53 | 76 011 | LP 54 | 76-012 |
| MEAS. DISTANCE | 48.631 | 46.406 | 44.056 | 2.658 | 10.537 | 2.905 | 26.886 |
| VERT. ANGLE | -9-47-05 | -10-15-05 | +2-24-20 | -11-59-00 | -10-48-45 | +7-53-55 | +2-25-05 |
| SINE - V.A. | | | | | .18760 | .13742 | .04219 |
| COSINE - V.A. | | | | | .98225 | .99051 | .99911 |
| STA. ELEVATION | 1145.392 | 1145.392 | 1158.800 | 1160.661 | 1144.632 | 1143.340 | 1142.276 |
| H.I. | -2.57 | -2.57 | -3.155 | -3.00 | -2.490 | -3.180 | -3.305 |
| INST. HEIGHT | 1142.822 | 1142.822 | 1155.645 | 1157.661 | 1142.142 | 1140.160 | 1138.971 |
| DISTANCE | -8.265 | -8.259 | +1.849 | -.552 | -1.977 | -.399 | +1.134 |
| DIFF. | 1134.557 | 1134.563 | 1157.494 | 1157.109 | 1140.165 | 1139.761 | 1140.105 |
| H.P. | +1.475 | +1.47 | +3.167 | +2.980 | +3.175 | +3.230 | +0.858 |
| F.S. ELEVATION | 1136.032 | 1136.033 | 1160.661 | 1160.089 | 1143.340 | 1142.991 | 1140.963 |
| AZ. B.S. TO STA. | 313 48 05 | 313 48 05 | 97 02 39 | 133 04 59 | 312 57 46 | 345 25 51 | 334 21 35 |
| ±180 - 00' - 00" | -180 | -180 | +180 | +180 | 180 | -180 | -180 |
| AZ. STA. TO B.S. | 133 48 05 | 133 48 05 | 277 02 39 | 313 04 59 | 132 57 46 | 465 25 51 | 154 21 35 |
| HORZ. ANGLE | 179 55 20 | 180 00 20 | 216 02 20 | 00 43 00 | 212 28 05 | 148 21 30 | 204 25 55 |
| -360 - 00' - 00" | | | 493 04 59 | 313 47 59 | 345 25 51 | 313 47 21 | 358 47 30 |
| AZ. STA. TO F.S. | 313 43 20 | 313 48 25 | 133 04 59 | | | | |
| BEARING | N 46 16 40 W | N 46 11 35 W | S 46 55 01 E | N 43 12 01 W | | N 46 12 39 W | N 01 12 30 W |
| HORZ. DISTANCE | 47.924 | 45.665 | 44.017 | 2.600 | 10.350 | 2.877 | 26.862 |
| COSINE BEARING | | | | | | | |
| STA. LAT. | 10781.315 | 10781.315 | 10778.515 | 10748.449 | 10844.161 | 10854.178 | 10796.166 |
| DIFF. | +33.123 | +31.611 | -30.066 | +1.800 | +10.017 | +1.99X | +26.856 |
| F.S. LAT. | 10814.438 N | 10812.926 N | 10748.449 N | 10750.249 N | 10854.178 N | 10856.169 N | 10823.022 N |
| SINE BEARING | | | | | | | |
| STA. DEP. | 7567.479 | 7567.479 | 7703.610 | 7735.758 | 7636.745 | 7634.141 | 7560.351 |
| DIFF. | -34.635 | -32.955 | +32.148 | -1.877 | -2.604 | -2.077 | -.566 |
| F.S. DEP. | 7532.844 E | 7534.524 E | 7735.758 E | 7733.881 E | 7634.149 E | 7632.064 E | 7559.785 E |
| GRADE CALC. | | | | | | | |
| F.S. GRADE ELV. | 1134.128 | 1134.489 | 1157.500 | 1157.370 | 1140.104 | 1140.063 | 1138.718 |
| GRADE CHAIN | 1.904m 6.25' | 1.544m 5.07' | 3.161m 10.37ft | 2.719m 8.92ft | 3.236m = 10.62' | 2.928m 9.60' | 2.245m 7.37' |
| OFFSETS | LEFT RIGHT | PLUS MINUS | L. R. | P. M. | L. R. | P. M. | L. R. |
| CALCULATED BY: | WS | WS | WS | WS | P. J. G. | WS | WS |
| CHECKED BY: | ROA | ROA | ROA | ROA | WS | P. J. G. | WS |
| DATE | FEB 12 / 76 | FEB 12 / 76 | FEB 14 / 76 | FEB 14 / 76 | 15-02-76 | 15-02-76 | 19-02-76 |

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|-------------------|--------------|----------------------------------|--------------|-------------|--------------|-------------|--------------|
| B.S. | 76-007 | 76-006 * | 76-011 | | 76-011 | | 76-005 |
| S.T.A. | 76-012 | 76-011 | 76-013 | | 76-013 | | 76-006 |
| F.S. | LP 55 | 76-013 | LP 56 | | LP 56 | | 76-014 |
| MEAS. DISTANCE | 2.425 | 12.860 | 1.650 | | 1.540 | | 35.610 |
| VERT. ANGLE | + 3-06-20 | - 1-36-10 | + 2-36-00 | | + 2-16-05 | | - 7-54-55 |
| SINE - V.A. | .05418 | .02797 | .04536 | | .03957 | | .13771 |
| COSINE - V.A. | .99853 | .99961 | .99897 | | .99922 | | .99047 |
| STA. ELEVATION | 1140.963 | 1143.340 | 1142.080 | | 1142.080 | | 1144.632 |
| H.I. | - 2.420 | + 3.210 | - 2.425 | | - 2.410 | | - 2.945 |
| INST. HEIGHT | 1138.543 | 1140.130 | 1139.655 | | 1139.670 | | 1141.687 |
| DISTANCE | + .131 | - 0.360 | + .075 | | + .061 | | - 4.904 |
| DIFF. | 1138.674 | 1139.770 | 1139.730 | | 1139.731 | | 1136.783 |
| H.P. | + 2.063 | + 2.310 | + 2.740 | | + 2.685 | | + 2.915 |
| F.S. ELEVATION | 1140.737 | 1142.080 | 1142.470 | | 1142.416 | | 1139.698 |
| AZ. B.S. TO STA. | 358 47 30 | 345 25 51 | 314 30 38 | | 314 30 38 | | 312 57 46 |
| ±180 - 00' - 00" | -180 | -180 | -180 | | -180 | | -180 |
| AZ. STA. TO B.S. | 178 47 30 | 165 25 51 | 134 30 38 | | 134 30 38 | | 132 57 46 |
| HORZ. ANGLE | 45 04 20 | 149 04 47 | 143 59 30 | | 149 30 15 | | 223 00 50 |
| - 360 - 00' - 00" | 223 51 50 | 314 30 38 | 278 30 08 | 278 30 08 | 284 00 53 | 284 00 53 | 355 58 36 |
| AZ. STA. TO F.S. | | | | | | | |
| BEARING | S 43-51-50 W | N 45 04 47 N | N 81 29 52 W | | N 75 59 07 W | | N 04 01 24 W |
| HORZ. DISTANCE | 2.421 | 12.855 | 1.648 | 30 m | 1.539 | 30 m | 35.271 |
| COSINE BEARING | | | | | | | |
| STA. LAT. | 10823.022 | 10854.178 | 10863.190 | 10863.190 | 10863.190 | 10863.190 | 10844.161 |
| DIFF. | - 1.746 | + 9.012 | + .244 | + 4.435 | + .373 | + 7.265 | + 35.184 |
| F.S. LAT. | 10821.276 N | 10863.190 N | 10863.434 N | 10867.625 N | 10863.563 N | 10870.455 N | 10879.345 N |
| SINE BEARING | | | | | | | |
| STA. DEP. | 7559.785 | 7634.141 | 7624.974 | 7624.974 | 7624.974 | 7624.974 | 7636.745 |
| DIFF. | - 1.678 | - 9.167 | - 1.630 | - 29.670 | - 1.493 | - 29.107 | - 2.475 |
| F.S. DEP. | 7558.107 E | 7624.974 E | 7623.344 E | 7595.304 E | 7623.481 E | 7595.867 E | 7634.270 E |
| GRADE CALC. | | PLS. SEE CHECK SURVEY ON P-43 | Relocated → | | | | |
| F.S. GRADE ELV. | 1138.683 | 1139.920 | 1139.896 | | 1139.898 | | 1137.142 |
| GRADE CHAIN | 2.054m 6.74' | 2.160m 7.09' | 2.574m 8.44' | | 2.578m 8.26' | | 2.556m 8.39' |
| OFFSETS | LEFT RIGHT | PLUS MINUS | L. R. | P. M. | L. R. | P. M. | L. R. |
| CALCULATED BY: | W.S. | W.S. | W.S. | | W.S. | | W.S. |
| CHECKED BY: | P.J.C. | P.J.C. | P.J.C. | | P.J.C. | | P.J.C. |
| DATE | 19 02 76 | 20 02 76 | 20 02 76 | | 20 02 76 | | 20 02 76 |

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|-------------------|--------------|-------------|--------------|--------------|-------------|--------------|--------------|
| B.S. | 76-006 | | 76 003 | 76 009 | | 76-006 | 76-014 |
| S.T.A. | 76-014 | | 76 009 | 76 015 | | 76-014 | 76-016 |
| F.S. | LP57 | | 76 015 | LP58 | | 76-016 | LP59 |
| MEAS. DISTANCE | 2.485 | | 30.690 | 3.353 | | 13.036 | 2.150 |
| VERT. ANGLE | - 4-10-10 | | - 7-48-10 | + 7-32-30 | | - 6-31-00 | - 6-40-00 |
| SINE - V.A. | .07271 | | .13576 | .13125 | | .11349 | .11609 |
| COSINE - V.A. | .99735 | | .99074 | .99135 | | .99354 | .99324 |
| STA. ELEVATION | 1139.698 | | 1136.032 | 1131.470 | | 1139.698 | 1138.504 |
| H.I. | - 2.995 | | - 2.750 | + 2.530 | | - 3.015 | - 3.565 |
| INST. HEIGHT | 1136.703 | | 1133.282 | 1128.940 | | 1136.683 | 1134.939 |
| DISTANCE | - .181 | | - 4.167 | + .440 | | - 1.479 | - .250 |
| DIFF. | 1136.522 | | 1129.115 | 1129.380 | | 1135.204 | 1134.689 |
| H.P. | + 3.175 | | + 2.355 | + 2.990 | | + 3.30 | + 3.575 |
| F.S. ELEVATION | 1139.697 | | 1131.470 | 1132.370 | | 1138.504 | 1138.264 |
| AZ. B.S. TO STA. | 355 58 36 | | 313 43 20 | 311 46 00 | | 355 58 36 | 333 47 21 |
| ±180 - 00' - 00" | -180 | | -180 | -180 | | -180 | -180 |
| AZ. STA. TO B.S. | 175 58 36 | | 133 43 20 | 131 46 00 | | 175 58 36 | 153 47 21 |
| HORZ. ANGLE | 155 25 20 | | 178 02 40 | 02 01 20 | | 157 48 45 | 159 59 40 |
| - 360 - 00' - 00" | 331 23 56 | 331 23 56 | 311 46 00 | 133 47 20 | 313 47 20 | 333 47 21 | 313 47 01 |
| AZ. STA. TO F.S. | | | | | | | |
| BEARING | N 28 36 04 W | | N 48 14 00 W | S 46 12 40 E | | N 26 12 39 W | N 46 12 59 W |
| HORZ. DISTANCE | 2.478 | 40 m | 30.406 | 3.324 | 50 m | 12.952 | 2.135 |
| COSINE BEARING | | | .66610 | .69200 | | | |
| STA. LAT. | 10879.345 | 10879.345 | 10814.438 | 10834.691 | 10834.691 | 10879.345 | 10890.965 |
| DIFF. | + 2.176 | + 35.119 | + 20.255 | - 2.300 | + 34.600 | + 11.620 | + 1.477 |
| F.S. LAT. | 10881.521 N | 10914.464 N | 10834.691 N | 10832.391 N | 10869.291 N | 10890.965 N | 10892.442 N |
| SINE BEARING | | | .74586 | .72189 | | | |
| STA. DEP. | 7634.270 | 7634.270 | 7532.844 | 7510.165 | 7510.165 | 7634.270 | 7628.549 |
| DIFF. | - 1.186 | - 19.148 | - 22.679 | + 2.400 | - 36.095 | - 5.721 | - 1.541 |
| F.S. DEP. | 7633.084 E | 7615.122 E | 7510.165 E | 7512.565 E | 7474.070 E | 7628.549 E | 7627.008 E |
| GRADE CALC. | | | | | | | |
| F.S. GRADE ELV. | 1136.820 | | 1129.263 | 1129.795 | | 1135.629 | 1135.287 |
| GRADE CHAIN | 2.877m 9.44' | | 2.575m 8.45' | 2.207m 7.24' | | 2.875m 9.43' | 2.977m 9.77' |
| OFFSETS | LEFT RIGHT | PLUS MINUS | L. R. | P. M. | L. R. | P. M. | L. R. |
| CALCULATED BY: | WS | | WS | WS | | WS | WS |
| CHECKED BY: | P. JG. | | P. JG. | P. JG. | | P. JG. | P. JG. |
| DATE | 23-02-76. | | 24 02 76 | 24 02 76 | | 1 03 76 | 1 03 76 |
| FIELD PAGE NO. | 137 | | | | | | |

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|------------------|------------|--------------|-------------|------------|-------------|-------------|------------|
| B.S. | | 76 009 | 76 015 | | 76 011 | 76 013 | 42 |
| S.T.A. | | 76 015 | 76 017 | | 76 013 | 76 018 | |
| F.S. | | 76 017 | LP60 | | 76 018 | LP61 | |
| MEAS. DISTANCE | | 24.216 | 2.140 | | 21.171 | 1.955 | |
| VERT. ANGLE | | - 2-59-15 | + 1-39-50 | | + 00-10-15 | + 1-33-35 | |
| SINE - V.A. | | .05212 | .02904 | | .00298 | .02722 | |
| COSINE - V.A. | | .99864 | .99958 | | 1.00000 | .99963 | |
| STA. ELEVATION | | 1131.470 | 1128.630 | | 1142.080 | 1141.368 | |
| H.I. | | - 2.395 | - 2.835 | | - 2.335 | - 1.670 | |
| INST. HEIGHT | | 1129.075 | 1125.795 | | 1139.745 | 1139.698 | |
| DISTANCE | | - 1.262 | + .062 | | + .063 | + .053 | |
| DIFF. | | 1127.813 | 1125.857 | | 1139.808 | 1139.757 | |
| H.P. | | + 0.817 | + 2.830 | | + 1.560 | + 2.100 | |
| F.S. ELEVATION | | 1128.630 | 1128.687 | | 1141.368 | 1141.851 | |
| AZ. B-S TO STA. | | 314 46 00 | 316 06 05 | | 314 50 38 | 285 10 18 | |
| ±180 -00'-00" | | -180 | -180 | | -180 | -180 | |
| AZ. STA. TO B.S. | | 131 46 00 | 136 06 05 | | 134 30 38 | 105 10 18 | |
| HORZ. ANGLE | | 184 20 05 | 357 40 40 | | 150 39 40 | 125 55 50 | |
| -360 -00'-00" | 313 47 01 | 316 06 05 | 493 46 45 | 313 46 45 | 285 10 18 | 231 06 08 | 231 06 08 |
| AZ. STA. TO F.S. | | | 133 46 45 | | | | |
| BEARING | | N 43 53 55W | S 46 13 15E | | N 74 49 42W | S 41 06 08W | |
| HORZ. DISTANCE | 30 | 24.183 | 2.139 | 50m | 21.171 | 1.954 | 30m |
| COSINE BEARING | | | | | | | |
| STA. LAT. | 10890.965 | 10834.691 | 10852.116 | 10850.636 | 10863.190 | 10868.731 | 10868.731 |
| DIFF. | + 20.758 | + 17.425 | - 1.480 | + 34.594 | + 5.541 | - 1.227 | - 18.838 |
| F.S. LAT. | 10911.723N | 10852.116N | 10850.636N | 10885.230N | 10868.731N | 10867.504N | 10849.893N |
| SINE BEARING | | | | | | | |
| STA. DEP. | 7628.549 | 7510.165 | 7493.397 | 7494.941 | 7624.974 | 7604.541 | 7604.541 |
| DIFF. | - 21.659 | - 16.768 | + 1.544 | - 36.101 | - 20.433 | - 1.521 | - 23.348 |
| F.S. DEP. | 7606.890E | 7493.397E | 7494.941E | 7458.840E | 7604.541E | 7603.020E | 7581.193E |
| GRADE CALC. | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| F.S. GRADE ELV. | | 1125.394 | 1125.736 | | 1139.617 | 1139.589 | |
| GRADE CHAIN | | 3.236m 10.62 | 2.951m 9.68 | | 1.757m 5.74 | 2.262m 7.42 | |
| OFFSETS | LEFT RIGHT | PLUS MINUS | L. R. | P. M. | L. R. | P. M. | L. R. |
| CALCULATED BY: | | WS | WS | | WS | WS | |
| CHECKED BY: | | PAC | PAC | | | | |
| DATE | | 2 03 76 | 2 03 76 | | 3 03 76 | 3 03 76 | |

RELOCATED →

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|------------------|--------------|-------------|---------------|---------------|-----------------|-----------------|--------------|
| B.S. | 76-013 | PLS. | 76-014 | 76-016 | 76-015 | 76-015 | 76-015 |
| S.T.A. | 76-018 | SEE | 76-016 | 76-019 | 76-017 | 76-020 | 76-015 |
| F.S. | LP 61 | RE-CALC. ON | 76-019 | LP 62 | 76-020 | LP 63 | 76-020 |
| MEAS. DISTANCE | 2.100 | P-44 | 35.479 | 3.730 | 38.478 | 3.015 | LP 64 |
| VERT. ANGLE | +1-57-15 | | -04-04-25 | +11-23-50 | -09-26-20 | +00-49-20 | -02-34-00 |
| SINE - V.A. | .03410 | | .07104 | .19761 | .16400 | .01435 | .04478 |
| COSINE - V.A. | .99942 | | .99747 | .98028 | .98646 | .99990 | .99900 |
| STA. ELEVATION | 141.368 | | 1138.504 | 1132.811 | 1128.630 | 1121.620 | 1121.620 |
| H.I. | -1.580 | | -3.570 | -3.460 | -3.430 | -2.590 | -2.590 |
| INST. HEIGHT | 1139.788 | | 1134.934 | 1129.351 | 1125.200 | 1119.030 | 1119.030 |
| DISTANCE | + .072 | | - 2.520 | + 0.737 | - 6.310 | + 0.043 | - 0.121 |
| DIFF. | 1139.860 | | 1132.414 | 1130.088 | 1118.890 | 1119.073 | 1118.969 |
| H.P. | + 2.085 | | + 0.397 | + 3.195 | + 2.730 | + 3.125 | + 2.460 |
| F.S. ELEVATION | 1141.945 | | 1132.811 | 1133.283 | 1121.620 | 1122.198 | 1121.369 |
| AZ. B.S. TO STA. | 285 0 18 | | 333-47-21 | 314-45-16 | 316-06-05 | 313-48-15 | 313-48-15 |
| ±180 - 00' - 00" | -180 | | 180 | 180 | 180 | 180 | 180 |
| AZ. STA. TO B.S. | 105 10 18 | | 153-47-21 | 134-45-16 | 136-06-05 | 133-48-15 | 133-48-15 |
| HORZ. ANGLE | 118 39 00 | | 160-57-55 | 359-03-00 | 177-42-10 | 359-58-00 | 220-06-20 |
| -360 - 00' - 00" | 223 49 18 | 223 49 18 | 314-45-16 | 493-48-16 | 313-48-15 | 493-46-15 | 353-54-35 |
| AZ. STA. TO F.S. | | | | 133-48-16 | | 133-46-15 | |
| BEARING | S 48 49 18 W | | N 45-14-44 W | S 46-11-11 E | N 46-11-45 W | S 46-13-45 E | N 16-05-25 W |
| HORZ. DISTANCE | 2.099 | 30m | 35.389 | 3.656 | 37.957 | 3.015 | 2.697 |
| COSINE BEARING | | | | | | | |
| STA. LAT. | 10 868.731 | 10868.731 | 10 890.965 | 10 915.881 | 10 852.116 | 10 878.390 | 10 878.390 |
| DIFF. | - 1.514 | - 21.645 | + 24.916 | - 2.531 | + 26.274 | - 2.086 | + 2.632 |
| F.S. LAT. | 10867.217 N | 10847.086 N | 10 915.881 N | 10 913.350 N | 10 878.390 N | 10 876.304 N | 10 881.072 N |
| SINE BEARING | | | | | | | |
| STA. DEP. | 7604.541 | 7604.541 | 7628.549 | 7603.418 | 7493.397 | 7466.003 | 7466.003 |
| DIFF. | - 1.453 | - 20.772 | - 25.131 | + 2.639 | - 27.394 | + 2.177 | - 0.286 |
| F.S. DEP. | 7603.088 E | 7583.769 E | 7603.418 E | 7606.057 E | 7466.003 E | 7468.180 E | 7465.717 E |
| GRADE CALC. | | | | | | | |
| F.S. GRADE ELV. | 1139.587 | | 1129.967 | 1130.552 | 1119.321 | 1119.803 | |
| GRADE CHAIN | 2.358m 7.74' | | 2.844m 9.331' | 2.731m 8.960' | 2.299m = 7.543' | 2.395m = 7.858' | |
| OFFSETS | LEFT RIGHT | PLUS MINUS | L. R. | P. M. | L. R. | P. M. | L. R. |
| CALCULATED BY: | W.S. | | P.A. ROA | P.A. ROA | ROA | ROA | ROA |
| CHECKED BY: | P.G. | | P.G. | P.G. | P.G. | P.G. | P.G. |
| DATE | 3 03 76 | | 13 MAR 76 | 13 MAR 76 | 14 MAR 76 | 14 MAR 76 | 14 MAR 76 |

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|------------------|-----------------|-----------------|--------------|--------------|--------------|-------|-------|
| B.S. | | | 76-007 | 76-012 | 76-018 | | |
| S.T.A. | | | 76-012 | 76-018 | 76-013 | | |
| F.S. | 76-020 | 464 | 76-018 | 76-013 | 76-011 | | |
| MEAS. DISTANCE | | | | 21.178 | | | |
| VERT. ANGLE | | | + 00-15-35 | - 02-07-25 | | | |
| SINE - V.A. | FOR 80 X-CUT | | | .03706 | | | |
| COSINE - V.A. | | | | .99931 | | | |
| STA. ELEVATION | GR. CHAIN | CALC. | 1140.963 | 1140.957 | | | |
| H.I. | | | - 1.910 | - 1.160 | | | |
| INST. HEIGHT | ONLY | | 1139.053 | 1139.797 | | | |
| DISTANCE | | | + 0.289 | - 0.785 | | | |
| DIFF. | | | 1139.342 | 1139.012 | CALC. NEXT | | |
| H.P. | | | + 1.615 | + 2.652 | PAGE | | |
| F.S. ELEVATION | 1121.620 | 1121.369 | 1140.957 | 1141.664 | 1142.903 | | |
| AZ. B.S. TO STA. | | | 358-47-30 | 44-26-00 | 104-44-55 | | |
| ±180-00'-00" | | | 180 | 180 | 180 | | |
| AZ. STA. TO B.S. | DO NOT | USE GR. | 178-47-30 | 224-26-00 | 284-44-55 | | |
| HORZ. ANGLE | | | 225-38-30 | 240-18-55 | 209-27-50 | | |
| -360-00'-00" | IN 3 N W | | 404-26-00 | 464-44-55 | 494-12-45 | | |
| AZ. STA. TO F.S. | | | 44-26-00 | 104-44-55 | 134-12-45 | | |
| BEARING | | | | 575-15-05 E | | | |
| HORZ. DISTANCE | | | 63.721 | 4.163 | 12.855 | | |
| COSINE BEARING | | | | | | | |
| STA. LAT. | | | 10 823.022 | 10 868.523 | 10 863.135 | | |
| DIFF. | | | + 45.501 | - 5.388 | - 8.964 | | |
| F.S. LAT. | | N | 10 868.523 N | 10 863.135 N | 10 854.171 N | | N |
| SINE BEARING | | | | | | | |
| STA. DEP. | | | 7559.785 | 7604.395 | 7624.861 | | |
| DIFF. | | | + 44.610 | + 20.466 | + 9.214 | | |
| F.S. DEP. | | E | 7604.395 E | 7624.861 E | 7634.075 E | | E |
| GRADE CALC. | | | | | | | |
| F.S. GRADE ELV. | © 7' GR. MARK | © 7' GR. | | | | | |
| GRADE CHAIN | 118.751 | 118.675 | | | | | |
| OFFSETS | 2.869' = 7.413' | 2.694' = 8.839' | | | | | |
| CALCULATED BY: | LEFT RIGHT | PLUS MINUS | L. R. | P. M. | L. R. | P. M. | L. R. |
| CHECKED BY: | ROA | ROA | ROA | ROA | ROA | | |
| DATE | P.A.G. | P.A.G. | P.A.G. | P.A.G. | P.A.G. | | |
| | 14 MAR, 76 | 14 MAR, 76 | 17 MAR, 76 | 19 MAR, 76 | 19 MAR, 76 | | |

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|---------------------|--------------|--------------|----------------|--------------|------------------|--------------|
| B.S. | 76-005 | 76-006 | | 75-049 | 76-003 | 76-009 |
| S.T.A. | 76-006 | 76-011 | | 76-003 | 76-009 | 76-017 |
| F.S. | 76-011 | 76-013 | | 76-009 | 76-017 | 76-020 |
| MEAS. DISTANCE | 10.567 | 12.872 | | 48.814 | 55.282 | 38.478 |
| VERT. ANGLE | -11-35-45 | -03-32-20 | | -10-58-40 | -09-21-00 | -09-28-00 |
| SINE - V.A. | .20101 | .06173 | | .19043 | .16246 | .16447 |
| COSINE - V.A. | .97959 | .99809 | | .98170 | .98671 | .98638 |
| STA. ELEVATION | 1144.632 | 1142.903 | | 1145.392 | 1136.018 | 1128.667 |
| H.I. | -2.935 | -2.945 | | -2.640 | -2.260 | -3.468 |
| INST. HEIGHT | 1141.697 | 1139.958 | | 1142.752 | 1133.758 | 1125.207 |
| DISTANCE | -2.124 | -0.794 | | -9.296 | -8.931 | -6.329 |
| DIFF. | 1139.573 | 1139.164 | AV. = 1141.657 | 1133.456 | 1124.827 | 1118.878 |
| H.P. | +3.330 | +2.475 | | +2.562 | +3.840 | +2.780 |
| F.S. ELEVATION | 1142.903 | 1141.639 | *1141.664 | 1136.018 | 1128.667 | 1121.658 |
| AZ. B.S. TO STA. | 312-57-46 | 345-06-46 | DIFF. = 0.025 | 313-48-05 | 313-43-55 | 313-42-00 |
| ±180 - 00' - 00" | 180 | 180 | | 180 | 180 | 180 |
| AZ. STA. TO B.S. | 132-57-46 | 165-06-46 | | 133-48-05 | 133-43-55 | 133-42-00 |
| HORZ. ANGLE | 212-09-00 | 149-05-55 | | 179-55-50 | 179-58-05 | 180-06-50 |
| -360 - 00' - 00" | 345-06-46 | 314-12-41 | | 313-43-55 | 313-42-00 | 313-48-50 |
| AZ. STA. TO F.S. | | | | | | |
| BEARING | | | | | | |
| HORZ. DISTANCE | 10.351 | 12.847 | | 47.921 | 54.547 | 37.954 |
| COSINE BEARING | | | | | | |
| STA. LAT. | 10 844.161 | 10 854.165 | VS | 10 781.315 | 10 814.442 | 10 852.128 |
| DIFF. | + 10.004 | + 8.958 | - 006 | + 33.127 | + 37.686 | + 26.276 |
| F.S. LAT. | 10 854.165 N | 10 863.123 N | 10 863.135 N | 10 814.442 N | 10 852.128 N | 10 878.404 N |
| SINE BEARING | + 006 | + 006 | DIFF. = 0.012 | | | |
| STA. DEP. | 7 636.745 | 7 634.086 | VS | 7 567.479 | 7 532.852 | 7 493.416 |
| DIFF. | - 2.659 | - 9.208 | + 008 | - 34.627 | - 39.436 | - 27.387 |
| F.S. DEP. | 7 634.086 E | 7 624.878 E | *7 624.861 E | 7 532.852 E | 7 493.416 E | 7 466.029 E |
| GRADE CALC. | 009 | - 009 | DIFF. = 0.017 | | | |
| TIE IN * FROM 3 N/W | | | | | OK. CHECK SURVEY | |
| F.S. GRADE ELV. | | | | | USE OLD CO-ORDS | |
| GRADE CHAIN | | | | | | |
| OFFSETS | LEFT RIGHT | PLUS MINUS | L. R. | P. M. | L. R. | P. M. |
| CALCULATED BY: | ROA | ROA | | ROA | ROA | ROA |
| CHECKED BY: | P. J. G. | P. J. G. | | | | |
| DATE | 21 MAR 76 | 21 MAR 76 | | 23 MAR 76 | 23 MAR 76 | 23 MAR 76 |

| | | | | | | | |
|------------------|--------------|--------------|--------------|--------------|----------------|-----------------|-----------------|
| B.S. | 76-006 | 76-007 | 76-011 | 76-013 | 76-017 | 75-051 | 76-008 |
| S.T.A. | 76-011 | 76-012 | 76-013 | 76-018 | 76-020 | 76-008 | 76-021 |
| F.S. | Lp 54 | Lp 55 | Lp 56 | Lp 61 | 76-022 | 76-021 | Lp 65 |
| MEAS. DISTANCE | 2.905 / | | 1.540 / | 2.100 / | 18.556 | 22.458 | 2.786 |
| VERT. ANGLE | -07-53-55 / | | +02-16-05 / | +01-57-15 / | -06-38-15 | +06-54-50 | -05-02-15 |
| SINE - V.A. | .13742 / | OLD | .03957 / | .03410 / | .11559 | .12038 | .08781 |
| COSINE - V.A. | .99051 / | CALC. p-38 | .99922 / | .99942 / | .99330 | .99273 | .99614 |
| STA. ELEVATION | 1142.903 / | OK. | 1141.652 / | 1140.957 / | 1121.620 | 1167.224 | 1170.627 |
| H.I. | -3.180 / | | -2.410 | -1.580 | -2.575 | -2.630 | -2.860 |
| INST. HEIGHT | 1139.723 / | | 1139.242 | 1139.377 | 1119.045 | 1164.594 | 1167.767 |
| DISTANCE | -0.399 / | | +0.061 | +0.072 | -2.145 | +2.703 | -0.245 |
| DIFF. | 1139.324 / | | 1139.303 | 1139.449 | 1116.900 | 1167.297 | 1167.522 |
| H.P. | +3.230 / | | +2.685 | +2.085 | +2.860 | +3.330 | +3.330 |
| F.S. ELEVATION | 1142.554 / | 1140.737 / | 1141.988 / | 1141.534 / | 1119.760 / | 1170.627 / | 1170.852 |
| AZ. B.S. TO STA. | 345-06-46 | | 314-D-45 / | 284-44-55 | 313-48-15 | 134-13-09 | 137-41-54 |
| ±180-00'-00" | 180- | | 180 | 180 | 180- | 180 | 180 |
| AZ. STA. TO B.S. | 165-06-46 | | 134-12-45 | 104-44-55 | 133-48-15 | 314-13-09 | 317-41-54 |
| HORZ. ANGLE | 148-21-30 / | | 149-30-15 | 118-39-00 | 217-30-15 | 183-28-45 | 144-13-45 |
| -360-00'-00" | 313-28-16 | | 283-43-00 | 223-23-55 | 351-18-30 | 497-41-54 | 461-55-39 |
| AZ. STA. TO F.S. | | | | | | 137-41-54 | 101-55-39 |
| BEARING | | | | | | | |
| HORZ. DISTANCE | 2.877 | | 1.539 | 2.099 / | 18.432 | 22.295 | 2.775 |
| COSINE BEARING | | | | | | | |
| STA. LAT. | 10 854.171 | | 10 863.129 | 10 868.523 | 10 878.390 | 10 647.709 | 10 631.249 |
| DIFF. | + 1.979 | | + 0.365 | - 1.525 | + 18.220 | - 16.490 | - 0.574 |
| F.S. LAT. | 10 856.150 N | 10 821.276 N | 10 863.494 N | 10 866.998 N | 10 896.610 N | 10 631.219 N | 10 630.645 N |
| SINE BEARING | | | | | | | |
| STA. DEP. | 7634.075 | | 7624.869 | 7604.395 | 7466.003 | 7664.714 | 7679.719 |
| DIFF. | - 2.088 | | - 1.495 | - 1.442 | - 2.785 | + 15.005 | + 2.715 |
| F.S. DEP. | 7631.987 E | 7558.107 E | 7623.374 E | 7602.953 E | 7463.218 E | 7679.719 E | 7682.434 E |
| GRADE CALC. | | | | | | | |
| F.S. GRADE ELV. | | | | | 1117.933 | 1168.069 | 1168.513 |
| GRADE CHAIN | | | | | 1.827m = 5.99' | 2.558m = 8.392' | 2.339m = 7.674' |
| OFFSETS | LEFT RIGHT | PLUS MINUS | L. R. | P. M. | R. | P. M. | L. R. |
| RECALCULATED BY: | ROA | ROA | ROA | ROA | ROA | ROA | ROA |
| CHECKED BY: | | | | | | | |
| DATE | 24.03.76 | 24.03.76 | 24.03.76 | 24.03.76 | 29.03.76 | 29.03.76 | 29.03.76 |
| FIELD PAGE NO. | | | | | | | |

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|------------------|------------------|-------------------|------------------|------------------|------------------|-------------------|-------------------|
| B.S. | 76-020 | 76-016 | 76-019 | 4065 | 76-021 | 76-017 | 76-020 |
| S.T.A. | 76-022 | 76-019 | 76-023 | 76-021 | 76-024 | 76-020 | 76-025 |
| F.S. | 4066 | 76-023 | 4067 | 76-024 | 4068 | 76-025 | 4069 |
| MEAS. DISTANCE | 2.911 | 27.886 | 2.195 | 22.442 | 2.487 | 38.371 | 1.990 |
| VERT. ANGLE | -25-52-30 | -09-39-50 | -00-26-40 | +13-19-00 | +03-33-25 | -08-03-50 | +04-52-50 |
| SINE - V.A. | .43641 | .16787 | .00776 | .23033 | .06204 | .14028 | .08508 |
| COSINE - V.A. | .89975 | .98581 | .99997 | .97311 | .99807 | .99011 | .99637 |
| STA. ELEVATION | 1119.760 | 1132.811 | 1128.715 | 1170.627 | 1173.646 | 1121.620 | 1116.628 |
| H.I. | -2.345 | -3.055 | -3.210 | -2.520 | -2.750 | -2.485 | -2.905 |
| INST. HEIGHT | 1117.415 | 1129.756 | 1125.505 | 1168.107 | 1170.896 | 1119.135 | 1113.723 |
| DISTANCE | -1.270 | -4.681 | -0.017 | +5.169 | +0.154 | -5.382 | + .169 |
| DIFF. | 1116.145 | 1125.075 | 1125.488 | 1173.276 | 1171.050 | 1113.753 | 1113.892 |
| H.P. | +3.830 | +3.640 | +3.270 | +0.370 | +3.015 | +2.875 | +3.015 |
| F.S. ELEVATION | 1119.975 | 1128.715 | 1128.758 | 1173.646 | 1174.065 | 1116.628 | 1116.907 |
| AZ. B.S. TO STA. | 351-18-30 | 312-45-16 | 312-15-56 | | 90-16-09 | 313-48-15 | 314-35-25 |
| ±180-00'-00" | 180 | 180 | 180 | | 180 | -180 | -180 |
| AZ. STA. TO B.S. | 171-18-30 | 134-45-16 | 132-15-56 | | 270-16-09 | 133-48-15 | 134-35-25 |
| HORZ. ANGLE | 232-01-45 | 177-30-40 | 1-30-00 | | 223-04-20 | 180-47-10 | 359-15-20 |
| -360-00'-00" | 403-20-15 | 312-15-56 | 133-47-56 | | 493-20-29 | 314-35-25 | 493-50-45 |
| AZ. STA. TO F.S. | 43-20-15 | | | 90-16-09 | 133-20-29 | | 133-50-45 |
| BEARING | | | | | | N | W |
| HORZ. DISTANCE | 2.619 | 27.420 | 2.195 | 2.839 | 2.482 | 37.992 | 1.983 |
| COSINE BEARING | | | | | | | |
| STA. LAT. | 10 896.610 | 10 915.881 | 10 934.370 | 10 631.219 | 10 631.116 | 10 878.390 | 10 905.062 |
| DIFF. | +1.905 | +18.489 | -1.519 | -0.103 | -1.704 | +26.672 | -1.374 |
| F.S. LAT. | 10 898.515 N | 10 934.370 N | 10 932.851 N | 10 631.116 N | 10 629.412 N | 10 905.062 N | 10 903.688 N |
| SINE BEARING | | | | | | | |
| STA. DEP. | 7 463.218 | 7 603.418 | 7 583.075 | 7 679.719 | 7 701.558 | 7 466.003 | 7 438.947 |
| DIFF. | +1.797 | -20.343 | +1.584 | +21.839 | +1.805 | -27.058 | +1.430 |
| F.S. DEP. | 7 465.015 E | 7 583.075 E | 7 584.659 E | 7 701.558 E | 7 703.363 E | 7 438.947 E | 7 440.377 E |
| GRADE CALC. | | | | | N.R. | DO NOT USE | |
| | | | | | GRADE CHANGED TO | | |
| | | | | | +12% FROM 76-024 | | |
| F.S. GRADE ELV. | 1117.946 | 1125.569 | 1125.920 | 1171.563 | 1171.861 | 1113.242 | 1113.539 |
| GRADE CHAIN | 2.029m. = 6.657' | 3.146m. = 10.322' | 2.838m. = 9.311' | 2.083m. = 6.834' | 2.204m. = 7.231' | 3.386m. = 11.111' | 3.348m. = 10.984' |
| OFFSETS | LEFT RIGHT | PLUS MINUS | L. R. | P. M. | L. R. | P. M. | L. R. |
| CALCULATED BY: | ROA | ROA | ROA | ROA | ROA | WS | WS |
| CHECKED BY: | WS | WS | WS | WS | WS | WS | WS |
| DATE | 30 MAR 76 | 5 04 76 | 5 04 76 | 11 APR 76 | 11 APR 76 | 15/104/76 | 15/104/76 |
| FIELD PAGE NO. | | | | | | | |

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|------------------|---------------|----------------|-----------------|-----------------|-------------|-----------------|---------------|
| B.S. | 76-020 | 76-022 | 76-022 | 76-026 | | 76-019 | 76-023 |
| S.T.A. | 76-022 | 76-026 | 76-026 | 76-027 | | 76-023 | 76-028 |
| F.S. | 76-026 | LP 70 | 76-027 | LP 71 | | 76-028 | LP 72 |
| MEAS. DISTANCE | 42.151 | 3.758 | 37.454 | 1.973 | | 42.038 | 3.165 |
| VERT. ANGLE | +00-30-10 | +01-59-40 | +00 04 00 | +3 27 30 | | -9-18-00 | +2-57-25 |
| SINE - V.A. | .00878 | .03480 | .00116 | .06032 | | .16160 | .05159 |
| COSINE - V.A. | .99996 | .99939 | 1.00000 | .99818 | | .98686 | .99867 |
| STA. ELEVATION | 1119.760 | 1120.905 | 1120.905 | 1120.919 | | 1128.715 | 1121.776 |
| H.I. | -2.180 | -2.710 | -2.775 | -2.810 | | -3.105 | -2.910 |
| INST. HEIGHT | 1117.580 | 1118.195 | 1118.130 | 1118.109 | | 1125.610 | 1118.866 |
| DISTANCE | + .370 | + .131 | + .044 | + .119 | | -6.794 | + .163 |
| DIFF. | 1117.950 | 1118.326 | 1118.174 | 1118.228 | | 1118.816 | 1119.029 |
| H.P. | +2.955 | +3.100 | +2.745 | +2.445 | | +2.960 | +2.950 |
| F.S. ELEVATION | 1120.905 | 1121.426 | 1120.919 | 1120.673 | | 1121.776 | 1121.979 |
| AZ. B-S TO STA. | 351 18 30 | 40 24 20 | 40 24 20 | 44 19 00 | | 312 15 56 | 313 59 36 |
| ±180 -00' -00" | -180 | +180 | +180 | +180 | | -180 | -180 |
| AZ. STA. TO B.S. | 171 18 30 | 220 24 20 | 220 24 20 | 224 19 00 | | 132 15 56 | 133 59 36 |
| HORZ. ANGLE | 229 05 50 | 183 22 10 | 183 54 40 | 179 27 20 | | 181 43 40 | 359 50 00 |
| -360 -00' -00" | 400 24 20 | 403 46 30 | 404 19 00 | 403 46 20 | | 313 59 36 | 493 49 36 |
| AZ. STA. TO F.S. | 40 24 20 | 43 46 30 | 44 19 00 | 43 46 20 | 43 46 20 | | 133 49 36 |
| BEARING | | | N 44 19 00 E | N 43 46 20 E | | | |
| HORZ. DISTANCE | 42.149 | 3.756 | 37.454 | 1.969 | 50 | 41.485 | 3.161 |
| COSINE BEARING | | | | | | | |
| STA. LAT. | 10 896.610 | 10928.705 | 10 928.705 | 10955.503 | 10955.503 | 10934.370 | 10963.184 |
| DIFF. | + 32.095 | + 2.712 | + 26.798 | + 1.422 | + 36.105 | + 28.814 | - 2.189 |
| F.S. LAT. | 10 928.705 N | 10931.417 N | 10955.503 N | 10956.925 N | 10991.608 N | 10963.184 N | 10960.995 N |
| SINE BEARING | | | | | | | |
| STA. DEP. | 7463.218 | 7490.539 | 7490.539 | 7516.705 | 7516.705 | 7583.075 | 7553.230 |
| DIFF. | + 27.321 | + 2.598 | + 26.166 | + 1.362 | + 34.590 | - 29.845 | + 2.280 |
| F.S. DEP. | 7490.539 E | 7493.137 E | 7516.705 E | 7518.067 E | 7551.295 E | 7533.230 E | 7555.510 E |
| GRADE CALC. | | | | | | | |
| F.S. GRADE ELV. | 1118.144 | 1118.163 | 1118.488 | 1118.236 | | 1118.931 | 1119.437 |
| GRADE CHAIN | 2.761m 9.06ft | 3.263m 10.71ft | 2.431m = 7.98ft | 2.437m = 8.00ft | | 2.845m = 9.33ft | 2.542m = 8.34 |
| OFFSETS | LEFT RIGHT | PLUS MINUS | L. R. | P. M. | L. R. | P. M. | L. R. |
| CALCULATED BY: | WS | WS | WS | WS | | WS | WS |
| CHECKED BY: | P.H. | P.H. | P.H. | P.H. | | P.H. | P.H. |
| DATE | 15/04/76 | 15/04/76 | 25/04/76 | 25/04/76 | | 28/04/76 | 28/04/76 |

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|------------------|-----------------|-----------------|-------------|-----------------|-----------------|-------------|-----------------|
| B.S. | 76-021 | 76-024 | | 76-026 | 76-027 | 76-017 | 76-020 |
| S.T.A. | 76-024 | 76-029 | | 76-027 | 76-030 | 76-020 | 76-025 |
| F.S. | 76-029 | LP73 | | 76-030 | LP74 | 76-025 | 76-031 |
| MEAS. DISTANCE | 29.831 | 1.515 | | 18.635 | 1.405 | 38.323 | 32.632 |
| VERT. ANGLE | +9-44-35 | -1-12-00 | | -7-16-45 | -1-56-20 | -7-48-50 | -10-25-10 |
| SINE - V.A. | .16923 | .02094 | | .12670 | .03383 | .13596 | .18085 |
| COSINE - V.A. | .98558 | .99978 | | .99194 | .99943 | .99071 | .98351 |
| STA. ELEVATION | 1173.646 | 1177.772 | | 1120.919 | 1118.573 | 1121.620 | 1116.650 |
| H.I. | -2.460 | -2.755 | | -2.750 | -2.820 | -2.575 | -3.030 |
| INST. HEIGHT | 1171.186 | 1175.017 | | 1118.169 | 1115.753 | 1119.045 | 1113.620 |
| DISTANCE | +5.048 | -.032 | | -2.361 | -.048 | -5.210 | -5.902 |
| DIFF. | 1176.234 | 1174.985 | | 1115.808 | 1115.705 | 1113.835 | 1107.718 |
| H.P. | +1.538 | +2.830 | | +2.765 | +2.920 | +2.815 | +3.430 |
| F.S. ELEVATION | 1177.772 | 1177.815 | | 1118.573 | 1118.625 | 1116.650 | 1111.148 |
| AZ. B.S. TO STA. | 90 16 09 | 128 57 09 | | 44 19 00 | 44 28 00 | 313 48 15 | 314 35 25 |
| ±180 -00' -00" | +180 | +180 | | +180 | +180 | -180 | -180 |
| AZ. STA. TO B.S. | 270 16 09 | 308 57 09 | | 224 19 00 | 224 28 00 | 133 48 15 | 134 35 25 |
| HORZ. ANGLE | 218 41 00 | 184 48 30 | | 180 09 00 | 139 59 20 | 180 47 10 | 177 53 10 |
| -360 -00' -00" | 488 57 09 | 493 45 39 | | 404 28 00 | 364 27 20 | 314 35 25 | 312 28 35 |
| AZ. STA. TO F.S. | 128 57 09 | 133 45 39 | 133 45 39 | 44 28 00 | 04 27 20 | | |
| BEARING | | | | N | E | N | E |
| HORZ. DISTANCE | 29.401 | 1.515 | 50 | 18.485 | 1.404 | 37.967 | 32.094 |
| COSINE BEARING | | | | | | | |
| STA. LAT. | 10 631.116 | 10612.632 | 10612.632 | 10 955.503 | 10968.695 | 10 878.390 | 10 905.044 |
| DIFF. | -18.484 | -1.048 | -34.582 | +13.192 | +1.400 | +26.654 | +21.673 |
| F.S. LAT. | 10 612.632 N | 10611.584 N | 10578.050 N | 10968.695 N | 10970.095 N | 10905.044 N | 10926.717 N |
| SINE BEARING | | | | | | | |
| STA. DEP. | 7701.538 | 7724.422 | 7724.422 | 7516.705 | 7529.654 | 7466.003 | 7438.965 |
| DIFF. | +22.864 | +1.094 | +36.112 | +12.949 | +1.109 | -27.038 | -23.671 |
| F.S. DEP. | 7724.422 E | 7725.516 E | 7760.534 E | 7529.654 E | 7529.763 E | 7438.965 E | 7415.294 E |
| GRADE CALC. | | | | | | | |
| | | | | | | | |
| F.S. GRADE ELV. | 1175.091 | 1175.273 | | 1116.122 | 1115.942 | | 1108.107 |
| GRADE CHAIN | 2.681m = 8.80ft | 2.542m = 8.34ft | | 2.451m = 8.04ft | 2.683m = 8.80ft | | 3.041m = 9.98ft |
| OFFSETS | LEFT RIGHT | PLUS MINUS | L. R. | P. M. | L. R. | P. M. | L. R. |
| CALCULATED BY: | | | | | | | |
| CHECKED BY: | P. J. G. | P. J. G. | | W.S. | W.S. | W.S. | W.S. |
| DATE | 28/04/76 | 28/04/76 | | 30/04/76 | 30/04/76 | 3/05/76 | 5/05/76 |
| FIELD PAGE NO. | | | | | | | |

Check Survey
USE THIS ONE

| | | | | | | | |
|------------------|-----------------|--------------|-----------------|-----------------|--------------|----------------|-----------------|
| B.S. | 76 025 | | 76 023 | 76 028 | | 76-024 | 76-029 |
| S.T.A. | 76 031 | | 76 028 | 76 032 | | 76-029 | 76-033 |
| F.S. | LP 75 | | 76 032 | LP 76 | | 76-033 | LP 77 |
| MEAS. DISTANCE | 3.455 | | 42.026 | 2.110 | | 13.128 | 4.471 |
| VERT. ANGLE | -6-31-00 | | -8-38-45 | +5-34-50 | | +02-19-35 | -09-40-30 |
| SINE - V.A. | .11349 | | .15033 | .09725 | | 0.04059 | 0.16806 |
| COSINE - V.A. | .99354 | | .98864 | .99526 | | 0.99918 | 0.98578 |
| STA. ELEVATION | 1111.148 | | 1121.776 | 1115.138 | | 1177.772 | 1180.135 |
| H.I. | -3.360 | | -3.080 | -2.740 | | -2.070 | -3.810 |
| INST. HEIGHT | 1107.788 | | 1118.696 | 1112.398 | | 1175.702 | 1176.325 |
| DISTANCE | - .392 | | - 6.318 | + .205 | | + 0.533 | - 0.751 |
| DIFF. | 1107.396 | | 1112.378 | 1112.603 | | 1176.235 | 1175.574 |
| H.P. | + 3.075 | | + 2.760 | + 2.715 | | + 3.900 | + 3.395 |
| F.S. ELEVATION | 1110.471 | | 1115.138 | 1115.318 | | 1180.135 | 1178.969 |
| AZ. B.S. TO STA. | 312 28 35 | | 313 59 36 | 314 10 56 | | 128-57-09 | 137-31-19 |
| ±180 - 00' - 00" | -180 | | -180 | -180 | | 180 | 180 |
| AZ. STA. TO B.S. | 132 28 35 | | 133 59 36 | 134 10 56 | | 308-57-09 | 317-31-19 |
| HORZ. ANGLE | 181 18 40 | | 180 11 20 | 359 34 30 | +180 | 188-34-10 | 2-18-00 |
| -360 - 00' - 00" | 313 47 15 | | 314 10 56 | 493 45 26 | 133 45 26 | 497-31-19 | 319-49-19 |
| AZ. STA. TO F.S. | | 313 47 15 | | 133 45 26 | 313 45 26 | 137-31-19 | |
| BEARING | | | | | | | |
| HORZ. DISTANCE | 3.433 | 50 | 41.548 | 2.100 | | 13.117 | 4.407 |
| COSINE BEARING | | | | | | | |
| STA. LAT. | 10 926.717 | 10 926.717 | 10 963.184 | 10 992.141 | 10 992.141 | 10 612.632 | 10 602.958 |
| DIFF. | + 2.376 | 34.579 | + 28.957 | - 1.452 | + 34.580 | - 9.674 | + 3.367 |
| F.S. LAT. | 10 929.093 N | 10 961.316 N | 10 992.141 N | 10 990.689 N | 11 026.721 N | 10 602.958 N | 10 606.325 N |
| SINE BEARING | | | | | | | |
| STA. DEP. | 7415.294 | 7415.294 | 7553.230 | 7523.435 | 7523.435 | 7724.422 | 7733.280 |
| DIFF. | - 2.478 | - 36.096 | - 29.795 | + 1.577 | - 36.114 | + 8.358 | - 2.843 |
| F.S. DEP. | 7412.816 E | 7379.198 E | 7523.435 E | 7524.952 E | 7487.321 E | 7733.280 E | 7730.437 E |
| GRADE CALC. | | | | | | | |
| F.S. GRADE ELV. | 1107.558 | | 1112.333 | 1112.627 | | 1176.665-0.610 | 1175.526 |
| GRADE CHAIN | 2.913m = 9.56ft | | 2.805m = 9.20ft | 2.691m = 8.83ft | | (USE) 1176.055 | 3.443m = 11.296 |
| OFFSETS | LEFT RIGHT | PLUS MINUS | L. R. | P. M. | L. R. | P. 13.386m | L. R. |
| CALCULATED BY: | W.S. | | W.S. | W.S. | | RPA | RPA |
| CHECKED BY: | W.S. | | W.S. | W.S. | | W.S. | W.S. |
| DATE | 5/05/76 | | 7/05/76 | 7/05/76 | | 16/05/76 | 16/05/76 |

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|------------------|--------------------------------|--------------------------------|--------------------------------|------------------------------------|-----------------------------|-----------------|-----------------|
| B.S. | 76-025 | 76-028 | 76-031 | 76-031 | 76-032 | 76-023 | 76-028 |
| S.T.A. | 76-031 | 76-032 | 76-035 | 76-035 | 76-034 | 76-028 | 76-036 |
| F.S. | 76-035 | 76-034 | Lp 78 | Lp 79 | Lp 80 | 76-036 | 76-030 |
| MEAS. DISTANCE | 49.134 | 38.383 | 4.575 | 3.344 | 3.526 | 34.360 | 18.096 |
| VERT. ANGLE | -05-50-00 | -08-43-15 | +06-51-40 | -10-38-20 | +04-14-50 | -08-29-40 | +06-15-50 |
| SINE - V.A. | .10164 | .15162 | .11946 | .18462 | .07406 | -.14771 | .10911 |
| COSINE - V.A. | .99482 | .98844 | .99284 | .98281 | .99725 | .98903 | .99403 |
| STA. ELEVATION | 1111.148 | 1115.138 | 1103.239 | 1103.239 | 1109.963 | 1121.776 | 1116.586 |
| H.I. | -3.375 | -2.560 | -2.420 | -2.420 | -2.860 | -3.090 | -2.750 |
| INST. HEIGHT | 1107.773 | 1112.578 | 1100.819 | 1100.819 | 1107.103 | 1118.686 | 1113.836 |
| DISTANCE | -4.994 | -5.820 | +0.546 | -0.617 | +0.261 | -5.075 | +1.974 |
| DIFF. | 1102.779 | 1106.758 | 1101.365 | 1100.202 | 1107.364 | 1113.611 | 1115.810 |
| H.P. | +0.460 | +3.205 | +2.410 | +3.025 | +2.855 | +2.975 | +2.780 |
| F.S. ELEVATION | 1103.239 | 1109.963 | 1103.775 | 1103.227 | 1110.219 | 1116.586 | 1118.590 |
| AZ. B.S. TO STA. | 312-28-35 | 314-10-56 | 313-32-45 | | 313-34-46 | 313-59-36 | 313-42-51 |
| ±180-00'-00" | 180- | 180 | 180 | | 180 | 180 | 180 |
| AZ. STA. TO B.S. | 132-28-35 | 134-10-56 | 133-32-45 | 133-32-45 | 133-34-46 | 133-59-36 | 133-42-51 |
| HORZ. ANGLE | 181-04-10 | 179-23-50 | 00-14-40 | 214-38-20 | 00-12-50 | 179-43-15 | 43-20-35 |
| -360-00'-00" | 313-32-45 | 313-34-46 | 133-47-25 | 348-11-05 | 133-47-36 | 313-42-51 | 177-03-26 |
| AZ. STA. TO F.S. | | | | | | | |
| BEARING | | | | | | | |
| HORZ. DISTANCE | 48.880 | 37.939 | 4.542 | 3.286 | 3.516 | 33.983 | 17.988 |
| COSINE BEARING | | | | | | | |
| STA. LAT. | 10 926.717 | 10 992.141 | 10 960.392 | 10 960.392 | 11 018.295 | 10 963.184 | 10 986.668 |
| DIFF. | +33.675 | +26.154 | -3.143 | +3.216 | -2.433 | +23.484 | -17.964 |
| F.S. LAT. | 10 960.392 N | 11 018.295 N | 10 957.249 N | 10 963.608 N | 11 015.862 N | 10 986.668 N | 10 968.704 N |
| SINE BEARING | | | | | | | 10 968.6950 |
| STA. DEP. | 7 415.294 | 7 523.435 | 7 379.865 | 7 379.865 | 7 495.951 | 7 553.230 | 7 528.667 |
| DIFF. | -35.429 | -27.484 | +3.279 | -0.673 | +2.538 | -24.563 | +0.923 |
| F.S. DEP. | 7 379.865 E | 7 495.951 E | 7 383.144 E | 7 379.192 E | 7 498.489 E | 7 528.667 E | 7 529.590 E |
| GRADE CALC. | -16% | -14% | -16% | N.B. | -14% | | 7529.65+ |
| | | | | DON'T ISSUE COR. | | BEAR. 76-030 → | + .064 |
| | | | | CH. YES, WAIT 4/16 SLASH FINISHED. | | 76-027 | NO ADJUSTMENT |
| F.S. GRADE ELV. | 1100.286 | 1107.022 | 1101.013 | 1100.220 | 1107.514 | 224-28-76 | REQUIRED - |
| GRADE CHAIN | 2.953 ^m = 9.688 FT. | 2.941 ^m = 9.649 FT. | 2.762 ^m = 9.062 FT. | 3.007 ^m = 9.865' | 2.705 ^m = 8.875' | DIFF. 0A-0A-26" | USE OLD CO-COR. |
| OFFSETS | LEFT RIGHT | PLUS MINUS | L. R. | P. M. | L. R. | L. R. | L. R. |
| CALCULATED BY: | ROA | ROA | ROA | ROA | ROA | ROA | ROA |
| CHECKED BY: | P.J.G. | P.J.G. | P.J.G. | P.J.G. | P.J.G. | P.J.G. | P.J.G. |
| DATE | 20 MAY 76 | 20 MAY 76 | 21 MAY 76 | 21 MAY 76 | 21 MAY 76 | 23 MAY 76 | 23 MAY 76 |

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| B.S. | 76-031 | 76-035 | 76-035 | 76-035 | 76-035 | 76-037 | |
| S.T.A. | 76-035 | 76-037 | 76-037 | 76-037 | 76-037 | 76-039 | |
| F.S. | 76-037 | Lp 81 | Lp 82 | 76-038 | 76-039 | Lp 83 | |
| MEAS. DISTANCE | 9.153 | 3.511 | 11.515 | 9.333 | 25.655 | 2.460 | |
| VERT. ANGLE | +08-41-50 | -11-23-05 | +03-15-40 | +04-20-00 | -01-40-35 | +06-35-10 | |
| SINE - V.A. | .15121 | .19740 | .05689 | .07556 | .02925 | .11470 | |
| COSINE - V.A. | .98850 | .98032 | .99838 | .99714 | .99957 | .99340 | |
| STA. ELEVATION | 1103.239 | 1104.358 | 1104.358 | 1104.358 | 1104.358 | 1103.008 | |
| H.I. | -2.490 | -1.970 | -1.920 | -1.920 | -1.980 | -1.095 | |
| INST. HEIGHT | 1100.749 | 1102.388 | 1102.438 | 1102.438 | 1102.378 | 1101.913 | |
| DISTANCE | +1.384 | -0.693 | +0.655 | +0.705 | -0.750 | +0.282 | |
| DIFF. | 1102.133 | 1101.695 | 1103.093 | 1103.143 | 1101.628 | 1102.195 | |
| H.P. | +2.225 | +2.745 | +0.390 | +0.425 | +1.380 | +0.606 | |
| F.S. ELEVATION | 1104.358 | 1104.440 | 1103.483 | 1103.568 | 1103.008 | 1102.801 | |
| AZ. B.S. TO STA. | 313-32-45 | 133-03-05 | 133-03-05 | 133-03-05 | 133-03-05 | 346-24-10 | |
| ±180-00'-00" | 180 | 180 | 180 | 180 | 180 | 180 | |
| AZ. STA. TO B.S. | 133-32-45 | 313-03-05 | 313-03-05 | 313-03-05 | 313-03-05 | 166-24-10 | |
| HORZ. ANGLE | 359-30-20 | 30-44-50 | 30-44-20 | 30-43-40 | 33-21-05 | 28-21-10 | |
| -360-00'-00" | 493-03-05 | 343-47-55 | 343-47-25 | 343-46-45 | 346-24-10 | 194-45-20 | |
| AZ. STA. TO F.S. | 133-03-05 | | | | | | |
| BEARING | | | | | | | |
| HORZ. DISTANCE | 9.048 | 3.442 | 11.496 | 9.306 | 25.644 | 2.444 | |
| COSINE BEARING | | | | | | | |
| STA. LAT. | 10 960.392 | 10 954.215 | 10 954.215 | 10 954.215 | 10 954.215 | 10 979.140 | |
| DIFF. | -6.177 | +3.305 | +11.039 | +8.936 | +24.925 | -2.363 | |
| F.S. LAT. | 10 954.215N | 10 957.520N | 10 965.254N | 10 963.151N | 10 979.140N | 10 976.777N | N |
| SINE BEARING | | | | | | | |
| STA. DEP. | 7 379.865 | 7 386.477 | 7 386.477 | 7 386.477 | 7 386.477 | 7 380.448 | |
| DIFF. | +6.612 | -0.960 | -3.209 | -2.600 | -6.029 | -0.622 | |
| F.S. DEP. | 7 386.477 E | 7 385.517 E | 7 383.268 E | 7 383.877 E | 7 380.448 E | 7 379.826 E | E |
| GRADE CALC. | | | | | | | |
| | | | FCE EL. @ Lp 82 | | 25.644 - 9.333 = | | |
| | | | = 1098.500 | | 16.311 x .02 = 0.326 | | |
| F.S. GRADE ELV. | | | 1099.956 | | 1099.912 + 0.326 = | | |
| GRADE CHAIN | | | 3.527m = 11.572 | | 1100.239 | 1100.190 | |
| OFFSETS | LEFT RIGHT | PLUS MINUS | L. R. | P. M. | L. R. | P. M. | L. R. |
| CALCULATED BY: | ROA | ROA | ROA | ROA | | | |
| CHECKED BY: | P.L.G. | P.L.G. | P.L.G. | P.L.G. | | | |
| DATE | 24 MAY 76 | 24 MAY 76 | 25 MAY 76 | 25 MAY 76 | 1 JUN 76 | 1 JUN 76 | |

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|------------------|--------------|--------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| B.S. | | | 76-037 | 76-039 | 76-029 | 76-033 |
| S.T.A. | BOC / 7NW | EOC / 84X-C | 76-039 | 76-040 | 76-033 | 76-041 |
| F.S. | EOC / 84X-C | BOC / 84X-C | 76-040 | LP 84 | 76-041 | LP 85 |
| MEAS. DISTANCE | 75.700 | | 9.848 | 2.890 | 36.997 | 3.304 |
| VERT. ANGLE | | | + 10-27-30 | + 21-45-15 | + 05-00-25 | - 08-27-35 |
| SINE - V.A. | | | .18152 | .37662 | .08728 | .14711 |
| COSINE - V.A. | | | .98339 | .92878 | .99618 | .98912 |
| STA. ELEVATION | | | 1103.008 | 1102.441 | 1180.135 | 1183.359 |
| H.I. | | | - 2.880 | - 2.145 | - 3.640 | - 3.200 |
| INST. HEIGHT | | | 1100.128 | 1100.296 | 1176.495 | 1180.159 |
| DISTANCE | | | + 1.788 | + 1.071 | + 3.229 | - 0.339 |
| DIFF. | | | 1101.916 | 1101.367 | 1179.724 | 1179.820 |
| H.P. | | | + 0.525 | + 1.020 | + 3.635 | + 3.090 |
| F.S. ELEVATION | | | 1102.441 | 1102.387 | 1183.359 | 1182.910 |
| AZ. B-S TO STA. | | | 346-24-10 | 12-52-20 | 137-31-19 | 140-56-09 |
| ±180-00'-00" | | | 180 | 180 | 180 | 180 |
| AZ. STA. TO B.S. | | | 166-24-10 | 192-52-20 | 317-31-19 | 320-56-09 |
| HORZ. ANGLE | | | 206-28-10 | 210-44-40 | 183-24-50 | 358-44-20 |
| -360-00'-00" | | | 372-52-20 | 403-37-00 | 500-56-09 | 679-40-29 |
| AZ. STA. TO F.S. | 223-47-59 | 193-47-59 | 12-52-20 | 43-37-00 | 140-56-09 | 319-40-29 |
| BEARING | | | | | | |
| HORZ. DISTANCE | 75.700 | 20.- | 9.684 | 2.684 | 36.856 | 2.279 |
| COSINE BEARING | | | | | | |
| STA. LAT. | 11 047.862 | 10 993.224 | 10 979.140 | 10 988.581 | 10 602.958 | 10 574.342 |
| DIFF. | - 54.638 | - 19.423 | + 9.441 | + 1.943 | - 28.616 | + 1.737 |
| F.S. LAT. | 10 993.224 N | 10 973.801 N | 10 988.581 N | 10 990.524 N | 10 574.342 N | 10 576.079 N |
| SINE BEARING | | | | | | |
| STA. DEP. | 7 438.025 | 7 385.630 | 7 380.448 | 7 382.605 | 7 733.280 | 7 756.506 |
| DIFF. | - 52.395 | - 4.771 | + 2.157 | + 1.852 | + 23.226 | - 1.475 |
| F.S. DEP. | 7 385.630 E | 7 380.859 E | 7 382.605 E | 7 384.457 E | 7 756.506 E | 7 755.031 E |
| GRADE CALC. | | | | | | |
| F.S. GRADE ELV. | | | 1100.433 | 1100.487 | 1180.478 | 1180.205 |
| GRADE CHAIN | | | 2.008 ^m = 6.588' | 1.900 ^m = 6.234' | 2.881 ^m = 9.452' | 2.705 ^m = 8.875' |
| OFFSETS | LEFT RIGHT | PLUS MINUS | L. R. | P. M. | L. R. | P. M. |
| CALCULATED BY: | | | ROA | ROA | ROA | ROA |
| CHECKED BY: | | | WS | WS | WS | WS |
| DATE | | | 5 JUN 76 | 5 JUN 76 | 6 JUN 76 | 6 JUN 76 |
| FIELD PAGE NO. | | | | | | |

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|------------------|-----------------|-----------------|----------------|-----------------|-----------------|-----------------|--------------|
| B.S. | 76-039 | 76-040 | 76-032 | 76-034 | 76-033 | 76-041 | 75-048 |
| S.T.A. | 76-040 | 76-042 | 76-034 | 76-043 | 76-041 | 76-044 | 75-050 |
| F.S. | 76-042 | LP 86 | 76-043 | LP 87 | 76-044 | LP 88 | TP 6NE |
| MEAS. DISTANCE | 43.24 | 2.960 | 23.070 | 3.386 | 41.227 | 4.398 | 15.584 |
| VERT. ANGLE | +00-42-20 | -04-12-25 | -08-22-15 | -04-58-20 | +8-16-30 | -4-50-30 | -00-25-20 |
| SINE - V.A. | .01231 | .07326 | .14558 | .08667 | .14392 | .08440 | .00737 |
| COSINE - V.A. | .99992 | .99731 | .98935 | .99624 | .98959 | .99643 | .99997 |
| STA. ELEVATION | 1102.441 | 1103.815 | 1109.963 | 1106.275 | 1183.359 | 1188.348 | 1157.257 |
| H.I. | -2.075 | -2.600 | -2.900 | -2.425 | -2.975 | -2.730 | -2.29 |
| INST. HEIGHT | 1100.416 | 1101.215 | 1107.063 | 1103.850 | 1180.384 | 1185.618 | 1154.961 |
| VERT. DISTANCE | +0.532 | -0.217 | -3.358 | -0.293 | +5.934 | -0.370 | -0.115 |
| DIFF. | 1100.948 | 1100.998 | 1103.705 | 1103.557 | 1186.318 | 1185.248 | 1154.846 |
| H.P. | +2.867 | +3.105 | +2.570 | +2.670 | +2.050 | +2.075 | +2.22 |
| F.S. ELEVATION | 1103.815 | 1104.103 | 1106.275 | 1106.227 | 1188.348 | 1187.323 | 1157.066 |
| AZ. B.S. TO STA. | 12-52-20 | 43-21-00 | 313-34-46 | 313-45-46 | 140 56 09 | 140 28 29 | 60 40 19 |
| ±180 - 00' - 00" | 180 | 180 | 180 | 180 | +180 | +180 | +180 |
| AZ. STA. TO B.S. | 192-52-20 | 223-21-00 | 133-34-46 | 133-45-46 | 320 56 09 | 320 28 29 | 240 40 19 |
| HORZ. ANGLE | 210-28-40 | 180-27-00 | 180-11-00 | 00-04-00 | 179 52 20 | 359 19 40 | 216 21 20 |
| -360 - 00' - 00" | +03-21-00 | +03-48-00 | 313-45-46 | 133-40-46 | 500 28 29 | 679 48 09 | 457 01 39 |
| AZ. STA. TO F.S. | 43-21-00 | 43-48-00 | | | 140 28 29 | 319 48 09 | 97 01 39 |
| BEARING | | | | | | | |
| HORZ. DISTANCE | 43.21 | 2.952 | 22.824 | 3.373 | 40.798 | 4.382 | 15.584 |
| COSINE BEARING | | | | | | | |
| STA. LAT. | 10 983.581 | 11 020.003 | 11 018.295 | 11 034.082 | 10 574.342 | 10 542.873 | 10 780.219 |
| DIFF. | +31.422 | +2.131 | +15.787 | -2.336 | -31.469 | -3.347 | -1.907 |
| F.S. LAT. | 11 020.003N | 11 022.134 N | 11 034.082 N | 11 031.746 N | 10 542.873N | 10 546.220N | 10 778.312 N |
| SINE BEARING | | | | | | | |
| STA. DEP. | 7 382.605 | 7 412.267 | 7 495.951 | 7 479.467 | 7 756.506 | 7 782.471 | 7 689.829 |
| DIFF. | +29.662 | +2.043 | -16.484 | +2.433 | +25.965 | -2.828 | +15.467 |
| F.S. DEP. | 7 412.267E | 7 414.310 E | 7 479.467 E | 7 481.900 E | 7 782.471 E | 7 779.643 E | 7 705.296 E |
| GRADE CALC. | | | | | | | |
| F.S. GRADE ELV. | 1101.297 | 1101.356 | 1103.997 | 1104.166 | 1185.374 | 1184.848 | |
| GRADE CHAIN | 2.518m = 8.261' | 2.747m = 9.012' | 2.278m = 7.47' | 2.061m = 6.762' | 2.974m = 9.762' | 2.475m = 8.124' | |
| OFFSETS | LEFT RIGHT | PLUS MINUS | L. R. | P. M. | L. R. | P. M. | L. R. |
| CALCULATED BY: | ROA | ROA | ROA | ROA | ROA | ROA | ROA |
| CHECKED BY: | WR | WR | WR | WR | P.J.G. | P.J.G. | WR |
| DATE | 14 JUNE 76 | 14 JUNE 76 | 16 JUN 76 | 16 JUN 76 | 20 JUN 76 | 20 JUN 76 | 21 JUN 76 |
| FIELD PAGE NO. | 530 | | | | | | |

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|-------------------|------------------|---------------|-------------|------------------|------------------|-------------|
| B.S. | 76040 | 76042 | | 76034 | 76043 | |
| S.T.A. | 76042 | 76045 | | 76043 | 76046 | |
| F.S. | 76045 | LP89 | | 76046 | LP90 | |
| MEAS. DISTANCE | 41.468 | 3.340 | | 23.521 | 2.86 | |
| VERT. ANGLE | + 2-29-30 | + 00-41-20 | | - 00 49 40 | + 5-48-00 | |
| SINE - V.A. | .04347 | .01202 | | .01445 | .10106 | |
| COSINE - V.A. | .99905 | .99993 | | .99990 | .99488 | |
| STA. ELEVATION | 1103.815 | 1104.653 | | 1106.275 | 1105.255 | |
| H.I. | -2.48 | -3.015 | | -2.405 | -1.795 | |
| INST. HEIGHT | 1101.335 | 1101.638 | | 1103.870 | 1103.460 | |
| VERT. DISTANCE | + 1.803 | + .040 | | - .340 | + .289 | |
| DIFF. | 1103.138 | 1101.678 | | 1103.530 | 1103.749 | |
| H.P. | + 1.515 | + 2.215 | | + 1.725 | + 1.340 | |
| F.S. ELEVATION | 1104.653 | 1103.893 | | 1105.255 | 1105.089 | |
| AZ. B.S. TO STA. | 43 21 00 | 43 55 40 | 250 45 20 | 313 45 46 | 317 25 11 | |
| ±180 - 00' - 00" | +180 | +180 | -180 | -180 | -180 | |
| AZ. STA. TO B.S. | 223 21 00 | 223 55 40 | 70 45 20 | 133 45 46 | 137 25 11 | |
| HORZ. ANGLE | 180 34 40 | 26 49 40 | | 183 39 25 | 145 32 40 | |
| - 360 - 00' - 00" | 403 55 40 | 250 45 20 | | 317 25 11 | 282 57 51 | 282 57 51 |
| AZ. STA. TO F.S. | 43 55 40 | | | | | |
| BEARING | | | | | | |
| HORZ. DISTANCE | 41.429 | 3.340 | 30 m | 23.518 | 2.845 | 30 m |
| COSINE BEARING | | | | | | |
| STA. LAT. | 11020.003 | 11049.841 | 11049.841 | 11034.082 | 11051.399 | 11051.399 |
| DIFF. | + 29.838 | - 1.101 | + 9.888 | + 17.317 | + .638 | 6.730 |
| F.S. LAT. | 11049.841 N | 11048.740 N | 11059.729 N | 11051.399 N | 11052.037 N | 11058.129 N |
| SINE BEARING | | | | | | |
| STA. DEP. | 7412.267 | 7441.008 | 7441.008 | 7479.467 | 7463.554 | 7463.554 |
| DIFF. | + 28.741 | - 3.153 | + 28.324 | - 15.913 | - 2.772 | - 29.235 |
| F.S. DEP. | 7441.008 E | 7437.855 E | 7469.332 E | 7463.554 E | 7460.782 E | 7434.319 E |
| GRADE CALC. | | | | | | |
| F.S. GRADE ELV. | 1102.125 | 1102.058 | | 1102.821 | 1102.764 | |
| GRADE CHAIN | 2.258m = 8.29 ft | 1.835m = 6.02 | | 2.434m = 7.98 ft | 2.325m = 7.63 ft | |
| OFFSETS | LEFT RIGHT | PLUS MINUS | L. R. | P. M. | L. R. | P. M. L. R. |
| CALCULATED BY: | WS | WS | | WS | WS | |
| CHECKED BY: | PAL | PAL | | PAL | PAL | |
| DATE | 21/05/75 | 21/06/76 | | 22/06/76 | 22/06/76 | |

| | | | | | | | |
|------------------|-------------|-------------|---------------|-----------------|-----------------|-------|-------|
| B.S. | 76 042 | 76 045 | 76 047 | 76 041 | 76 044 | | |
| S.T.A. | 76 045 | 76 047 | 76 046 | 76 044 | 76 048 | | |
| F.S. | 76 047 | 76 046 | 76 043 | 76 048 | LP 91 | | |
| MEAS. DISTANCE | 8.226 | 15.996 | | 33.010 | 3.800 | | |
| VERT. ANGLE | +1-13-05 | +00-01-20 | | +6-48-45 | +35-39-50 | | |
| SINE - V.A. | .02126 | .00039 | | .11862 | .58303 | | |
| COSINE - V.A. | .99977 | 1.00000 | | .99294 | .81245 | | |
| STA. ELEVATION | 1104.653 | 1104.353 | | 1188.348 | 1191.434 | | |
| H.I. | -2.650 | -2.030 | | -2.885 | -1.985 | | |
| INST. HEIGHT | 1102.003 | 1102.323 | | 1185.463 | 1189.449 | | |
| VERT. DISTANCE | + .175 | + .006 | | + 3.916 | + 2.216 | | |
| DIFF. | 1102.178 | 1102.329 | | 1189.379 | 1191.665 | | |
| H.P. | + 2.175 | + 2.90 | | + 2.055 | + 0 | | |
| F.S. ELEVATION | 1104.353 | 1105.229 | | 1191.434 | 1191.665 | | |
| AZ. B-S TO STA. | 43 55 40 | 56 56 45 | 100 24 15 | 140 28 29 | 139 53 59 | | |
| ±180 - 00' - 00" | +180 | +180 | +180 | +180 | +180 | | |
| AZ. STA. TO B.S. | 223 55 40 | 236 56 45 | 280 24 15 | 320 28 29 | 319 53 59 | | |
| HORZ. ANGLE | 193 01 05 | 223 27 30 | 217 02 20 | 179 25 30 | 179 54 40 | | |
| -360 - 00' - 00" | 416 56 45 | 460 24 15 | 497 26 35 | 499 53 59 | 499 48 39 | | |
| AZ. STA. TO F.S. | 56 56 45 | 100 24 15 | 137 26 35 | 139 53 59 | 139 48 39 | | |
| BEARING | | | | | | | |
| HORZ. DISTANCE | 8.224 | 15.996 | | 32.777 | 3.087 | | |
| COSINE BEARING | | | | | | | |
| STA. LAT. | 11049.841 | 11054.327 | | 10542.873 | 10517.801 | | |
| DIFF. | + 4.486 | - 2.889 | | - 25.072 | - 2.358 | | |
| F.S. LAT. | 11054.327 N | 11051.438 N | | 10517.801 N | 10515.443 N | | |
| SINE BEARING | | | | | | | |
| STA. DEP. | 7441.008 | 7447.901 | | 7782.171 | 7803.583 | | |
| DIFF. | + 6.893 | + 15.733 | | + 21.112 | + 1.992 | | |
| F.S. DEP. | 7447.901 E | 7463.634 E | | 7803.583 E | 7805.575 E | | |
| GRADE CALC. | | | 137° 26' 35" | | | | |
| | | | -137° 25' 11" | | | | |
| | | | 00° 01' 24" | | | | |
| F.S. GRADE ELV. | | | | 1189.307 | 1189.677 | | |
| GRADE CHAIN | | | | 2.127m = 6.984+ | 1.988m = 6.524+ | | |
| OFFSETS | LEFT RIGHT | PLUS MINUS | L. R. | P. M. | L. R. | P. M. | L. R. |
| CALCULATED BY: | WS | | | WS | WS | | |
| CHECKED BY: | | | | | | | |
| DATE | June 25/76 | | | June 30/76 | June 30/76 | | |
| FIELD PAGE NO. | | | | | | | |

