01156 2D65

ND DRILL HOLE RECORD

64m @ 292° AZ

FROM #1 POSTS "JOE 5+6"

DIP TEST		
FOOTAGE	ANGLE RECORDING	ANGLE CORRECTED
STICK-UP		0.5m
COLLAR		-46°
76m	-29.5°	-31.5°
114m	-40°	-32°
197m	-26.7°	-20.5°

LEVEL	
LOCATION	PELLY
ELEVATION	1884 m
LATITUDE	———
DEPARTURE	———

HORIZONTAL COMPONENT	213 m (FROM COLLAR)
VERTICAL COMPONENT	1765 m
BEARING	022°
LENGTH	250.3 m
DATE ~~FINISHED~~	JUNE 22 - JULY 1, 1976

HOLE No.	JOE 78-2
SHEET No.	1 OF 7
LOGGED BY	JN
PURPOSE	
TOT. RECOVERY	

GRAPHIC LOG	METERS ~~FOOTAGE~~ FROM	TO	EST. SUL-PHIDE	ROCK TYPE	DESCRIPTION
	0	7.3		OVERBURDEN	
	7.3	23.5	TR	SHALE/SILTSTONE	- GREY TO BLACK, GRAPHITIC, RADLY BROKEN DUE TO FAULTING. -7.3 - 10.0 : GOUGE (GRADN) -10.0 - 16.2 : FINE - MED GRND SLTST. LITHIC GRNS TO 2 mm -13.6 : BEDDING - 030° -TR PY WITHIN RANDOM GRNS (< 0.5%) -14.6 : BEDDING - ? 022° -LOCAL QTZ STRING (1-3mm), MOSTLY IN GOUGE -16.2-16.4 : GRADN SHALE, PATCHY BRKN -16.4 - 19.1 : GOUGE (GRADN) -19.1 - 19.9 : SLTST AS PREV. SLIGHTLY FINER-GRND -19.9 - 23.5 : GOUGE (GRADN)
	23.5	26.6	1-2%	TUFF	- THIN-LAM, MOD TO WELL SHRD. SHR'G PROP // BEDDING. GREY - LT. COLORED INT'BANDS, MOSTLY LT-GREY & WHITE CLASTS. SOME TINY PY CLASTS (NODULES?). CLASTS ARE FLAMI'D. -ROCK IS BADLY BROKEN, WEAKLY CLY. -22.9 : FOL/BED : 055° -26.5 : CAL STRI TO ? mm
	26.6	27.7		GOUGE	
	27.7	32.1	2-5%	LAPILLI TUFF (UNIT 3-A)	- WELL SHRD, SERICITK, VARICLASTIC, LARGEST (3-4 cm) ARE APHANITIC LT. COLORED VOLC. BALANCE CONSISTS OF BLACK ARGIL (10-15%), ASST'D VOLC & PY CLASTS. MINOR DISS PY, MOSTLY IN FORM OF AG ASSOC. WITH CLASTS. NO STRINGERS. -PY CLASTS MAY EXPLAIN HEMATITIC CLASTS OBS'VD IN O/C. -WHISPS OF SER. SCATT'D THROUGHOUT

ASSAYS											RECOVERY	
SAMPLE NO.	FROM	TO							FROM	TO	RUN	REC SHORT
									7.2	8.2	0.9	0.5
										9.5	1.3	0.3
										11.3	1.8	0.6
										11.9	0.6	0.1
										12.5	0.6	0.2
										14.0	1.5	0.9
										15.2	1.2	0.8
										16.2	1.0	0.1
										17.4	1.2	0.2
										19.5	2.1	0.2
										20.7	1.2	0.8
										22.0	1.3	0.6
										23.5	1.5	0.9
										24.4	0.9	1.0
										25.3	0.9	0.9
										26.7	1.4	0.8
										27.7	1.0	0.9
										30.5	2.8	2.3
										32.6	2.1	2.2
										33.5	0.9	0.7
										35.7	2.2	2.0

ND DRILL HOLE RECORD

DIP TEST		
FOOTAGE	ANGLE RECORDING	ANGLE CORRECTED

LEVEL		HORIZONTAL COMPONENT	
LOCATION		VERTICAL COMPONENT	
ELEVATION		BEARING	
LATITUDE		LENGTH	
DEPARTURE		DATE FINISHED	

HOLE No.	JOE 78-2
SHEET No.	2 OF 7
LOGGED BY	JN
PURPOSE	
TOT. RECOVERY	

GRAPHIC LOG	METERS ~~FOOTAGE~~ FROM	TO	EST. SULPHIDE	ROCK TYPE	DESCRIPTION
					-31.2 - 32.5 : ZONE OF MOSTLY WHITE CLASTS & LT-COLORED SER. MATRIX, WELL-SHR'D
					-32.1 & 32.2 : 2-5 cm THICK ARGIL BANDS
					-32.2 - 32.4 : TUFF AS PREV. BADLY BRKN CORE
					-32.3 : 10 cm GOUGE
					-32.4 - 35.5 : SILTY FINER-GRND & MORE SER TUFF, INCR. IN DISS PY AS WELL AS STRIN. (TO 5% LOC.) RANDOM LG. WHITE CLASTS.
				+	- 36.2 - 37.5 : ARGIL TUFF, BLACK GRAPH. VERY BRKN. MINOR VOLC CLASTS.
				+	-37.5 - 59.7 : LAPILLI TUFF AS PREV MORE LEUCO' CLASTS, FEWER ARG. THIN ARGK HOR (5-10 cm) RANDOMLY LESS PY (TR - 0.5%). SER. MORE ABUND? WHERE SHR'D.
					-38.1 & 39.4 : NAR (10-15 cm) ZONES OF PALE SER & ALB? ALT. NAR QTZ/CAL STRIN ASSOC WITH ZONES.
					-41.2 - 42.5 : MOSTLY LT GREY CLASTS
					- 41.3 : QTZ STRINGS TO 1 cm
					-42.2 - 42.8 : BROKEN CORE
					-42.7 : PY NODULE ≃ 1 cm ACROSS
					-43.8 - 44.4 & 45.0 - 45.8 : LT. GREY CLASTS, SOME 3-4 cm Φ. QTZ. VEINS COMMON IN THESE ZONES. TR. CUBIC PY.
					-45.8 - 46.3 : BRKN CORE
					-46.6 - 47.8 : LAP/X-TAL TUFF WITH DIS. PY CONFINED TO CERTAIN CLASTS. PLAG X-TALS TO 3 mm.
					-47.8 - 53.3 : FINE-GRND X-TAL TUFF, DK. GREY MATRIX MOSTLY WHITE PLAG. GRNS & SHARDS. UP TO 1.0% PY MINOR PY: WITH SER. STRIN
					-50.9 - 60.0 : 1 cm QTZ VEIN @ 010°

ASSAYS SAMPLE No.	FROM	TO							FROM	TO	RECOVERY RUN	REC SHORT
									35.7	37.7	2.0	2.1
										40.2	2.5	2.6
										41.8	1.6	1.5
										42.7	0.9	1.0
										44.8	2.1	2.2
										46.0	1.2	1.7
										49.2	3.2	3.2
										50.9	1.7	1.7
										54.0	3.1	3.1
										56.7	2.7	2.7
										57.3	0.6	0.7
										59.8	2.5	2.5
										63.0	3.2	3.7
										66.2	3.2	3.1
										68.4	2.2	2.7
										71.0	2.6	2.3
										72.6	1.6	1.6
										75.0	2.4	2.3
										78.0	3.0	3.1

ND DRILL HOLE RECORD

DIP TEST		
FOOTAGE	ANGLE	
	RECORDING	CORRECTED

LEVEL	HORIZONTAL COMPONENT	HOLE No.	JOE 78-2
LOCATION	VERTICAL COMPONENT	SHEET No.	3 OF 7
ELEVATION	BEARING	LOGGED BY	JN
LATITUDE	LENGTH	PURPOSE	
DEPARTURE	DATE FINISHED	TOT. RECOVERY	

RAPHIC LOG	METERS ~~FOOTAGE~~ FROM	TO	EST. SUL-PHIDE	ROCK TYPE	DESCRIPTION
					-51.8: BRKN CORE
					-52.8: 5cm ZONE OF PALE SER ALT.
					-55.5 - 57.2 : BLACK GRAPH & SER TUFF, RARLY BRKN CORE, MINOR ZONES OF LAPILLI
					-57.2: BEDDING: 060°
					-58.0 - 58.5 : FINE - GRND X-TAL TUFF
					-58.6 : PY CLAST 3 cm ⊕
					-59.5 : 15 cm ARGIL RED WITH ARGIL CLASTS TO 2 cm; FINE DKS PY TO ≈ 0.5%
					BEDDING: 060°, TOPS DOWNWARDS?
	59.7	68.6	TR	RHYOLITE? FLOW (UNIT 3?)	MASS. FINE - GRND, LT - GREY TO GREEN. HIGHLY SER. WELL FRAC'D & VEINED WITH SER & A DARK MIN. - POS CHL OR PYRO. FRAC. MAY BE AUTO- △
					-63.1 : QTZ VEIN @ 020°
					-66.4 - 68.6 : BECOMES MORE A-IATED DOWN HOLE (FLOW TOP?) INCORP SOME ARGIL FRAGS.
	68.6	71.2	0.5%	LAPILLI TUFF	SAME AS PREV. GRAD CTCT APPROX PY & ARGIL CLASTS, GREY MATRIX, MOD - WELL SHR'D. MINOR SER, 0.5% PY
					-71.2: FOL / CTCT : 070°
	71.2	84.3	TR-0.5	RHYOLITE? (UNIT 3?)	FINE - MED GRND, GREY - GREEN, MOD. SHR'D, SER.
					-72.1 - 72.3 : BRKN CORE
					-72.7 - 74.9 : SLIGHTLY PRY TIC, MORE A-TED DOWN HOLE
					-74.9 - 75.6 : LAP. TUFF ≈ 2% DISS PY
					-75.3 : FOL ≈ 052°
					-75.6 - 75.7 : GOUGE
					-77.2 - 77.5 : LAP. TUFF, BRKN CORE
					-77.8 - 78.4 : BRKN CORE

ASSAYS											RECOVERY	
SAMPLE No.	FROM	TO							FROM	TO	RUN	REC ~~SHORT~~
									78.6	81.1	3.1	3.1
										84.5	3.4	3.2
										86.6	2.1	2.0
										88.7	2.1	1.9
										91.2	2.5	2.7
										94.5	3.3	3.1
										97.6	3.1	3.1
										100.6	3.0	3.1
										103.7	3.1	3.2
										106.9	3.2	3.1
										109.5	2.6	2.6
										111.6	2.1	2.1
										114.6	3.0	2.8

ND DRILL HOLE RECORD

DIP TEST					
FOOTAGE	ANGLE		LEVEL	HORIZONTAL COMPONENT	HOLE No. JOE 78-2
	RECORDING	CORRECTED	LOCATION	VERTICAL COMPONENT	SHEET No. 4 OF 7
			ELEVATION	BEARING	LOGGED BY JN
			LATITUDE	LENGTH	PURPOSE
			DEPARTURE	DATE FINISHED	TOT. RECOVERY

GRAPHIC LOG	METERS ~~FOOTAGE~~ FROM	TO	EST. SUL-PHIDE	ROCK TYPE	DESCRIPTION
					-78.4 - 80.4 : AUTO - Δ
					-80.4 : GOUGE
					-83.0 - 84.3 : AUTO - Δ , PALE GREY - GREEN , SER.
					-84.3 - 84.5 : GOUGE
	84.5	105.2	—	LAPILLI	TUFF - LITE GREY TO GREEN MATRIX, EXTREMELY SER. LARGER WHITE CLASTS AS IN UNIT 2-A NOT COMMON. MATRIX FINER LIKE ACH TUFF. DOES NOT HAVE PYRITIC CLASTS OR PY AS 3A HAS. SHEADING NOT AS SEVERE LOCALLY.
					-89.4 - 90.2 : VFG PALE GREEN, SER, SIM. TO UNIT 3-B. CORE BLOCKY & BRKN
					-91.3 - 91.6 : SILTY & SHALY HORIZONS EXHIBIT FLAMES INTO GRITTY TUFF, DOWN HOLE !
					- 91.6 : BEDDING : 048°
					- 91.7 - 93.4 : LAP. TUFF SHOWS GRADING FROM LITHIC TUFF - Δ TO SILTSTONE DOWN HOLE
					-93.4 - 94.1 : SILTY ZONE, GRADED BED DOWN HOLE @ 032°
					- 94.3 : GOUGE
					- 95.0 - 95.4 : BRKN CORE
					- CYCLIC GRADED BEDDING SEEN HERE (LITHIC TUFF TO SILTSTONE)
					- 95.6 : BEDDING : 052°
					- COARSE TUFF HAS > SER THAN FINE-GRND
					- 102.7 : SMALL COMP Z & S FOLD WITHIN A 10 cm SILTY HOR.
					- 102.8 : BEDDING : 065°
	105.2	170.0		RHYOLITIC	AGGLOMERATE - LIGHT GREY TO TAN-BEIGE CLASTS OF RHYO SET IN A MATRIX SIMILAR TO IF NOT SAME AS COARSER-GRND PHASES OF ABOVE UNIT.

ASSAYS											RECOVERY	
SAMPLE No.	FROM	TO							FROM	TO	RUN	REC'L ~~SHORT~~
									114.6	116.9	2.3	2.4
										120.1	3.2	3.2
										122.1	2.0	2.0
										125.1	3.0	3.1
										127.1	2.0	1.9
										130.2	3.1	2.9
										133.2	3.0	3.0
										134.6	1.4	1.3
										136.2	1.7	1.7
										139.2	3.0	3.1
										142.4	3.1	3.0
										145.4	3.0	3.0
										148.5	3.1	3.1
										151.5	3.0	3.0
										154.6	3.1	3.0
										157.6	3.0	3.1
										160.7	3.1	3.1
										163.7	3.0	3.0
										166.7	3.0	3.0
										169.8	3.1	3.1
										170.4	0.6	0.6
										172.9	2.5	2.4
										175.9	3.0	3.0
										179.0	3.1	3.1
										182.0	3.0	3.0
										183.8	1.8	1.7
										185.1	1.3	1.3
										186.2	1.2	0.9
										188.1	1.8	1.9
										191.2	3.1	3.1

OND DRILL HOLE RECORD

DIP TEST		
FOOTAGE	ANGLE	
	RECORDING	CORRECTED

LEVEL	HORIZONTAL COMPONENT	HOLE No.	JOE 78-2
LOCATION	VERTICAL COMPONENT	SHEET No.	5 OF 7
ELEVATION	BEARING	LOGGED BY	JN
LATITUDE	LENGTH	PURPOSE	
DEPARTURE	DATE FINISHED	TOT. RECOVERY	

GRAPHIC LOG	METERS ~~FOOTAGE~~ FROM	TO	EST. SUL-PHIDE	ROCK TYPE	DESCRIPTION
					- TUFF / AGGL MATRIX IS SUBJECTED TO SER ALT.
					-108.3 - 108.5 : PPYTIC PHASE, PLAG TO 4.0mm
					-109.0 - 111.5 : BRKN CORE
					-109.4 & 110.0 : GAUGE ZONES
					-114.4 : TR PY IN AGGL.
					-117.5 - 117.9 : BRKN CORE
					-119.2 - 120.4 : GOUGE ZONE
					-122.7 - 124.1 : BRKN CORE
					-125.0 - 125.8 : " "
					-127.1 - 127.2 : " "
					-128.4 : CLAST OF DISS PY (≈ 40%) 2 cm ϕ.
					- FROM 136.3 ON, THE RHYO CLASTS ARE INCR'G IN SIZE & #. SOME UP TO 20mm ϕ. QTZ STRING CONFINED TO CLASTS.
					-139.9 & 140.9 : LOW⁰ FRAC @ ≈ 5°-10°, HAS A POWDERY GREEN MINERAL COATING (MICA? CHL?) SOME CUBIC PY ASSOC WITH LATTER.
					-141.9 : QTZ STRING @ 022°
					-142.6 - 145.0 : CAL AMYGD OR CAVITY FILL'S TO 8mm
					-143.0 : SOME FINE-DISS PY ASSOC WITH AGGL - TUFF ZONE; SER.
					-143.7 : FRAC @ 045°
					-144.2 : PY CLASTS TO 2 mm
				+	- GRADATIONAL CTCT; RHYO CLASTS BECOME SMALLER & FEWER, ϕ DISAPPEAR AFTER ≈ 170.6
	170.0	234.7	3-5%	ANDESITE? (POSS. UNIT 1) - PALE GREEN TO GREY, SOFT	
				+	- 170.0 - 185.3 : MOSTLY A + TUFFACEOUS ZONES BECOMING MORE MASSIVE DOWN HOLE.
					- VERY SER.
					- 170.1 & 171.4 : INTRU (MONZ?) CLASTS IN A

ASSAYS											RECOVERY	
SAMPLE No.	FROM	TO							FROM	TO	RUN	REF SHOR
									191.2	191.5	3.3	3.
										197.6	3.1	3.
										200.6	3.0	3.
										202.4	2.8	2.
										205.6	2.2	2.
										207.5	1.9	1.

ND DRILL HOLE RECORD

DIP TEST		
FOOTAGE	ANGLE	
	RECORDING	CORRECTED

LEVEL	HORIZONTAL COMPONENT	HOLE No.	JOE 78-2
LOCATION	VERTICAL COMPONENT	SHEET No.	6 OF 7
ELEVATION	BEARING	LOGGED BY	JN
LATITUDE	LENGTH	PURPOSE	
DEPARTURE	DATE FINISHED	TOT. RECOVERY	

GRAPHIC LOG	METERS FOOTAGE FROM	TO	EST. SUL-PHIDE	ROCK TYPE	DESCRIPTION
					-173.1: MOSTLY MASS GREEN-GREY & HIGHLY SER., SOFT INCR IN CAL AS STRING & MATRIX.
					-173.9: 20cm BAND OF GRAPHITIC ARGIL, VEINED WITH QTZ.
					-174.6 - 175.4: BRKN CORE
					-178.8: INCR IN PY AS DISS & STRING (0.5 - 1.0%)
					-177.4 - 177.9: SECTION OF INTRUSIVE: MASS, MED. GRND LIGHT GREY-GREEN (DIOR → GRANO?) POSS DYKE OR SILL.
					-175.6 - 176.0: BRKN CORE
					-179.9: DIAB/A CTCT ≈ 030°
					-179.5: PY CLAST ≈ 3cm ϕ
					-180.4: GOUGE (2-3cm)
					-181.7 - 185.9: BADLY BRKN CORE, MANY THIN TUFF HOR'S.
					-182.4: ARGIL TUFF, BED: ≈ 055°
					-185.0: GOUGE
					-185.9 - 188.0: GREEN, SER, DISS PY (0.5%)
					-187.4 - 188.0: BRKN CORE, WELL SHR'D
					-188.0: GOUGE
+					- FROM 188.0: MORE GREY/GREEN, GRANULAR TEXTURE. SUDDEN INCR IN CAL STRING (1-5mm) STRING OCCUR RANDOMLY AT VARIOUS ANGLES MATRIX INCR IN CAL ALSO.
					-191.5 & 191.6: GOUGE ZONES WITH CAL STRING
					-192.1: PY STRIN @ ≈ 050°
					- TO 205.2 MUCH SAME AS ABOVE, MED. GRND, GREY-GREEN, SOFT, CAL ALT.
					- GOUGE ZONES AT: 200.6, 201.2, 201.9, 203.8 - 203.9, 204.2.
					- 204.5 - 204.9: VERY BRKN GRND, FINER GRND SINCE 204.2. TR SPH @ 204.7.

ASSAYS											RECOVERY	
SAMPLE No.	FROM	TO							FROM	TO	RUN	REC'S SHORT

ND DRILL HOLE RECORD

DIP TEST		
FOOTAGE	ANGLE RECORDING	ANGLE CORRECTED

LEVEL		HORIZONTAL COMPONENT	HOLE No. JOE 78-2
LOCATION		VERTICAL COMPONENT	SHEET No. 7 OF 7
ELEVATION		BEARING	LOGGED BY JN
LATITUDE		LENGTH	PURPOSE
DEPARTURE		DATE FINISHED	TOT. RECOVERY

GRAPHIC LOG	METERS FOOTAGE FROM	TO	EST. SUL-PHIDE	ROCK TYPE	DESCRIPTION
					-204.9-206.3: FINE-GRND EQUIGR. ROCK, TAN-BROWN TO GREY COLOUR. POSS. INTRUSIVE. HAS POWDERY GREEN MINERAL ALONG FRAC. UP TO 15-20% PY IN LAST 10 cm.
			20%	+ +	206.3-207.5: ZONE OF GREY SIDERITE, PYRITE (VEINING?). HAS ≈ 20% PY AS STRINGERS THRU SID.
			"	"	-207.5-211.6: SAME AS PREVIOUS, TRACE REDDISH-BROWN SPH AS RANDOM GRAINS. (0.1% Zn max)
			15-20%	+ +	211.6-212.0: SIDERITE-PYRITE ZONE. SPHAL STRING AT BASE (0.5 cm THICK) - ≈ 0.5% Zn OVERALL, 15-20% PY.
					-TO 234.2 MASSIVE FINE-GRND PYRITE IS ABOVE. SOME DISS PY & IN STRING ASSOC WITH SIDERITE GANGUE. (→ 3%) PY.
					-221.6-234.4: VERY BROKEN CORE
					-233.9-234.2: GOUGE
	234.2	250.3	1-2%	DIORITE?:	LIGHT GREEN, EQUIGRANULAR TEXTURE, CAL ALT'N, SOFT, MINOR PY AS CUBIC DISS. INCR IN QTZ STRINGERS.
					SOME DK. CHLORITE ALONG FRAC. POWDERY GREEN MINERAL NOT AS COMMON.
					- ROCK BECOMES COARSER & MORE MASSIVE DOWN HOLE.
					- QTZ STRINGER @ 248.1: ≈ 030°
					- 250.1-250.7: ROCK HAS BECOME VERY LT. COLOURED. (GRANO-DIORITE?)
					-250.7-250.?: GOUGE
					EOH

ASSAYS											RECOVERY	
SAMPLE No.	FROM	TO	LGTH	% Pb	% Zn	OZ/T Ag	OZ/T Au		FROM	TO	RUN	REC SHORT
7211	206.3	207.5	1.2	—	0.42	0.01	0.001					
7212	211.6	212.0	0.4	—	2.90	0.01	0.001					