091851

DRILL HOLE RECORD

Drill Hole No.: 6 Inclination: 54° S

Property: TEA

Co-ordinates: North _____ East _____

Elevation: _____

Date: July 6 1986 - July 7, 1986

Drilled By: Tim Bartlett, Leah Wojcowski Coron Diamond Drilling

Logged By: A.W. Mitchell

Total Depth: _____

DEPTH FROM	DEPTH TO	SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES Sp. Gr.	ANALYSES BaSO4	ANALYSES Cond.	DESCRIPTION OF MATERIAL DRILLED
0	10	3%					Bedding 20° from perp to core. Small nodules in argillaceous matrix = 60%
							Calcareous in part
10	12	15%					do shale layer at bottom with
							rare nodules
12	14	15%					Massive laminated barite, calcareous
14	19	70	17.5-19	3.25			Massive calcareous barite. 1/2" Argillaceous
							layers at 14½. A ½" calcite vein
							crosscuts core at 18½. Fractured except
							bottom foot.
19	21	50					Massive to laminated barite calcareous
							in upper part. Highly broken
21	23	75					Broken laminated to nodular barite
							Slumped in lower part.
23	24.5	90	23-24.5	4.08			Broken upper 9" Coalescing nodular beds
							in upper grading into laminated at bottom
24.5	28	85					Laminated barite upper 6" and lower 5"
							w/ punky brown material including some ba in between
28	32	75	27.5-29	4.23	✓ 1.5		Punky brown material which partly washed away
			29-31	4.33	✓ 2		Massive laminated barite w occasional 1/8" siliceous

4.26, 5.5

DRILL HOLE RECORD

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32	37	90	31-33	4.22	✓ 4		Massive barite, a few laminations
			33-35	3.62			Siderite(?) and calcareous barite at 33
			35-37	3.89			Slumped at 35 with more included argillaceous
							material. Broken at 36 with punky tan
							material = 2"
37	42	80	38-39½	4.45	✓ 1:3		9" punky tan to grey material (leached carbonate?)
			40-42	3.98			1' massive to minor laminated barite
							4" argillite w/ a few barite veinlets + nodules
							lower 1' slumped, fractured, laminated barite
42	47	95	42-44	4.20	✓ 2		Massive laminated barite with not abundant
			44-46	3.98			slump features. Red brown and tan punky
							zones at 42½ (4") 43(1"). 45-46 mixed
			46-48	3.90			barite + punky tan material. 5" Calcareous 44½+47
47	52	95	48-50	4.23	✓ 2		Massive barite widely spaced laminations
			50-52	4.40	✓ 2		Calcareous top 2", 5" at 48
52	56½	95	52-54.5	4.06			Massive barite w/ some laminations. Disrupted
							bedding at 52 (worm tube?) Lower 2' is thick
							bedded shale with scattered nodules, up to ¼" across
56.5	61.5	90	56-59	4.16			Massive barite rare laminations. 1" tan punky
			59-61	4.11			at 59 and 61.5

S.S.

4.32 & (

DRILL HOLE RECORD

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DEPTH FROM	DEPTH TO	SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES Sp. Gr.	ANALYSES BaSO4	ANALYSES Cond.	DESCRIPTION OF MATERIAL DRILLED
61.5	66.5	95	61-63 63-65	4.12 4.32	✓		calcareous at 62 (4"), 63½ (½") do 2" punky zones at 61.5, 63, 63½, and 66.5
66.5	72	90	65-67 67-69	4.15 4.39	✓		do bedding crossed core 15° from perp.
			69-71 71-73	4.40 4.27	✓ ✓		Calcareous at 66½ (4"), 68 (½"), 72 (½")
72	77	80	73-75 75-78	4.21 4.32	✓ ✓		Massive barite punky zone 6" at 74
							Calcareous at 72 (½") and on margins of punky zone.
77	82	100					Upper 1' massive barite becoming laminated in
							lower portion. Remainder black carbonaceous
							argillite w/ scattered ¼" layers of nodular barite
							Bedding planes 30° from perp to core. Slicks on bed. plane
82	87	95					Black argillite w/ very finely dissem. py 2%
87	91	90					do rare barite nodules
91	96	80					do
							Upper ½ 6" argillite with barite nodules increasing
							downward. Remainder laminated barite w/ 30%
							argillaceous beds. Lower 6" argillite w/ scattered nodules.
							Small fractures perp. to bedding common
96	101	85	98-101	3.33			top 4" argillite. Remainder calcareous barite (?)
			103-106	3.28			Large calcite vein at 97. Tan punky material
							makes ½ core 100-104. This zone crosscuts bedding

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101	106	80					Upper 2' punky tan to red brown material w/ rare barite layers. Remainder massive ls 5" calcite vein @ 106. Bedding 35° from perp to core.
106	111	75					Slumped argillite + calcareous barite w/ crosscutting quartz veinlets in upper 9". Then 4" nodular barite + argillaceous mat. followed by 2" breccia zone cemented by quartz. 2" argillite + nodular barite slumped + brecciated in part. Veined with barite. Lower 1' is laminated barite w/ lower 2" punky red-brown calcareous material.
111	116	85	110.5-113	3.37			Massive calcareous laminated barite. Several
			113-115	3.62			calcite veins at 112 up to ½" wide.
			115-117	4.08			
116	121	90	117-119	3.56			Massive laminated barite calcareous 117 to 120
			119-121	3.91			9" calcite vein at 119. Lower 2' higher SG. Bedding 45° to core. 1" arg layer @ 116
121	126	95	121-123	3.90			Massive laminated barite. Several 1" arg.
			123-125	4.18			layers in upper 1'. A 1" calcite vein at 125
			125-127	4.01			Broken 125-126 calcareous layer @ 122, 125, 126
126	131	95	127-129	4.15			Massive laminated barite ½" punky layer
			129-131	3.98			at 127½. Several small fractures perp. to bed.

Calcareous layers at 128, 129, 131

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DEPTH FROM	DEPTH TO	SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES Sp. Gr.	ANALYSES $BaSO_4$	ANALYSES Cond.	DESCRIPTION OF MATERIAL DRILLED
131	136	85	131-133	4.26	✓ 2		Massive laminated barite. Several ½" arg layers in upper 1'. Lowest 4" 50% shale in ¼" lenses
			133-135.5	4.32	✓ 2.5		
136	141	95	136-138	4.30	✓ 2		Massive laminated barite. Top ¼" punky Lower 4" slabby
			138-140	4.31	✓ 2		
141	146.5	86	140-142	4.34	✓ 2		Massive laminated barite ¼" arg. at 143 ½" punky material @ 143½ + along one edge of core to 144. Calcareous 145-146
			142-144	4.01			
			144-146.5	4.18			
146.5	152	90	148-150	4.19			Upper 6" red brown punky zone
			150-152	4.25	✓ 2		Remainder laminated barite. Vuggy zone with limonite at 151. Laminations elastic at 152
152	157	90	152-154.5	4.08			Slumped zone at 152. Upper 3' laminated barite becoming more arg. downwards. Lower 2' Argillite with quartz veinlets perp. to bedding. Scattered nodules ba. 2 4" barite beds just above 157. Calcareous 152-152½
157	162	90					Laminated barite with up to 30% arg mat in parts. Calcite veins 159

10's 4.31 ua

DRILL HOLE RECORD

Drill Hole No.: 6 Inclination: _____ Date: _____

Property: _____ Drilled By: _____

Co-ordinates: North _____ East _____ Logged By: WH 0-163 TG 163-EOH

Elevation: _____ Total Depth: _____

DEPTH FROM	DEPTH TO	SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES Sp. Gr.	ANALYSES BaSO4	ANALYSES Cond.	DESCRIPTION OF MATERIAL DRILLED
162	163.5	75%					interbedded argillite and barite 50% barite ; laminated to thin bedded grades into zone of nodular barite
							at the bottom with 15% fine to medium grained
							nodules The argillite is carbonaceous
163.5	175						siliceous argillite with 10% laminated and nodular barite
							and 15% laminated to thin bedded pyrite ; Core lost with
							191 ft. EOH in DDH-5 . The upper part of unit is carbonaceous
							Barite occurs in the zone of laminated barite and coalescing
							nodules as follows:
							164'6" thick 6
							168'10" : 5½" thick interbedded barite, pyrite and minor with
							170'7" : 2" thick
							171'8" : 2" thick contains 1½" bed of pyrite with 30%
							argillite, also contains 10% disseminated pyrite within the
							barite
							172'9" : 9" thick laminated grading downinto nodular
							barite 25% barite with 5% pyrite
							qtz vein and breccia at 166'6" qtz veins cut the core
							at a very shallow angle (5-15° from vertical)
							Calcite vein at 169

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Property: ______ Drilled By: ______

Co-ordinates: North ______ East ______ Logged By: ______

Elevation: ______ Total Depth: ______

DEPTH FROM	DEPTH TO	SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES Sp. Gr.	ANALYSES BaSO4	ANALYSES Cond.	DESCRIPTION OF MATERIAL DRILLED
175'	177	95					laminated and nodular barite with 40% argillite; barite
							occurs as [illegible] of [illegible] coalescing lenses. Slump
							features are common and also contains what looks
							like argillite rip up clasts near top of zone. Calcareous layers at 176
177	181	95					cherty argillite as in 163.5-175 with 15%
							barite layers.
							f.g.-m.g. pyrite nodules from 180-181
							qtz veins with some ~~calcite~~ sub-parallel to core axis
							179-181
181	183	95					laminated and coalescing nodular barite as in 175-177'
183	186.25	80					Calcareous at 181 cherty argillite with 5% f.g.-m.g. pyrite nodules
186.25	187.25	100					laminated barite and argillite as in 175-177'
187.25	188.25	100					cherty argillite w/ 1-2% f.g. pyrite nodules
188.25	193.75	90%	188.5-191	4.21	✓ 2.5		laminated barite w/ 15% argillite and minor
			191-193	4.18			limestone. Contains some fine grained nodules within
							the argillaceous layers and a few slump features.
							4" mottled and fractured zone at 191'. Calcareous 191, 192-195
193.75	250	90%	193-195	4.00			massive laminated barite w/ 5% argillaceous layers 1/8"-1/16"
			195-197	4.25	✓ 2		thick. argillaceous layers up to 2" thick at ~~[illegible]~~5', 200.5,
			197-199	4.27	✓ 2		213'. Argillaceous units occur as fine laminations and wedges
							[illegible] Calcareous 200-201

DRILL HOLE RECORD

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Property:

Co-ordinates: North East

Elevation:

Date:

Drilled By:

Logged By:

Total Depth:

14' 4.25 wt

15.25 ft 4.24

DEPTH FROM	DEPTH TO	SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES Sp. Gr.	ANALYSES BaSO4	ANALYSES Cond.	DESCRIPTION OF MATERIAL DRILLED
		6" core lost	199-201	3.98			- Note no acid, to check calcareous nature but
		at 212'	201-203	4.29	✓ 2		there appears to be limestone beds at:
			203-205	4.29	✓ 2		for 6" above 222' for 2" at 194'
			205-207	4.31	✓ 2		for 4" below 226'
			207-209 209-211	4.35 4.03	✓ 2		for 1" above 245'
			211-213.5 213.5-216	3.85 4.15			A zone of intense calcite veining and brecciation
			216-218 218-221	4.11 4.19			occurs from 228 1/2 to 229 1/4, for 4" at 221' and
			222-224 224-226	4.26 4.28	✓ 2 ✓ 2		for 4" at 212', 1" at 216'
			226.5-228.75 230-232	4.27 4.13	✓ 2		barite bedding is contorted at: 238 1/2'
			232-234 234-236	4.23 4.33	✓ 2 ✓ 2		pink limonite clay [illegible] and banded
			236-238 238-240	4.15 4.13	244-246 246-248	3.96 4.10	zone after 4" above 240', Iron stained frac. 233'
			240-242 242-244	3.95 4.04	248-250	4.15	bedding core angle throughout zone average: ~30°
250	252	100%	250-252	3.93			barite laminated to thin bedded interbedded w/ lam.
							to thin bedded black cherty argillite. 30% argillite, beds
							of argillite are up to 1/4" thick. and contain thin
							quartz tension gashes perpendicular to bedding
							Small load structures are common in this unit.
							The barite locally consists of fine nodules
252	255	100	252-255	4.02			massive laminated barite as in 193.75-250' [illegible]
							contact with underlying cherty argillite is gradational

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DEPTH FROM	DEPTH TO	SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES Sp. Gr.	ANALYSES BaSO4	ANALYSES Cond.	DESCRIPTION OF MATERIAL DRILLED
							Bedding is truncated at 255'
255	257¼	100%					massive black pyritic chert with chert argillite and
			258-261	4.25	✓ 2		barite at top of unit. Bedding is contorted at top of
							unit and contains quartz tension gashes in cherty
							layers. Bedding at 35° to core (90° to 11 to core) in
							cherty layers is truncated by barite lamellae at 15°
							c/a at top of unit.
							chert contains 5% m.g. pyrite nodules.
257¼	269'	90	261-263	3.83			massive laminated to thin bedded barite w/ 5% argillite
			263-265	4.05			lamellae. 1/2" thick chert layer with tension gashes at
			265-267	4.15			267'.
			267-269	4.25	✓ 2		1½" zone of calcite veining at 264½'
							barite is thinly bedded from 262'-263'
269	269¾	100	269.5-272	4.17			black pyritic cherty argillite : upper contact
							gradational, lower contact sharp.
269¾	299	95	272-274	4.30	✓ 2		barite laminated, massive with 5-7% argillite
			274-276	4.26	✓ 2		seam 1/16' thick 4" pyritic and barite cherty argillite
			276-278	4.12			at 272'. 1" thick chert with qtz filled tension
			279-280	4.16			gashes at 274'
			280-282	4.24	✓ 2		
			282-284	4.24	✓ 2		hematite stained, highly fractured and qtz veined
			284-286	4.17			
			286-288	4.26	✓ 2		
			288-290	4.30	✓ 2		

note: no acid

10

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			290-292	4.19			baritic (15%) argill.te from 296'-296.5'
			292-294	4.34 ✓			
			294-297	4.12			maple line at 292'
			297-298¾	4.20 ✓	1.8		
							siliceous barite at 279.5' and from 288¼ to 284'
							bedding c/a = 35°, clay filled fracture at: 284'
298	298¾	100%	299-300	4.17			black pyritic clasty argill.te w/ 5% very fine grained
							disseminated pyrite bedding c/a = 40°
298¾	300'10"	100%					laminated barite w 10% argillaceous lamellae upper and lower
							parts of unit more argillaceous
300'10"	301'3"	100	301.5-304.25	4.25 ✓	2.8		black pyritic clasty argill.te w/ deformation to tear
							drop shaped barite nodules and some lamellae at
							bottom of unit
301'3"	306¼	100	304.5-307	4.13			massive medium bedded barite with 1-2% argill.te lamellae
306¼	306½	95					graphitic argill.te w slickensides on bedding surfaces
306½	332'	95	307-309	4.35 ✓	2		massive laminated to medium bedded barite with
			309-312	4.33 ✓	2		2-5% argill.te lamellae. slightly siliceous at the
			312-314	4.37 ✓	322-324 2	4.38	top and bottom of the section. Syndepositional
			314-316	4.36	324-326 2 ✓	4.41	faults and slumps are common in the bottom 1'
			316-318	4.34	326-328 2 ✓	4.35	slumping and load structures present in the top 2'
			318-320	4.32	328-330 2 ✓	4.28	bedding c/a = 40°
			320-322	4.38	330-332 2 ✓	4.34	clay filled fractures: 311', 313'

68'

4.34

63.50

262.57

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332	332¼	90%					carbonaceous and pyritic black argillite w/ 20%
							large lenticular (1" / ¼") to round (¼" / ¼")
							shaped barite nodules.
332¼	333¼	100					massive laminated barite w/ 5-7% argillite lamellae
							· barite is slightly siliceous and contains
							abundant quartz microfractures perpendicular to
							bedding
333¼	335	90%	335-33				graphitic and pyritic clasty argillite with extremely
							graphitic lower contact (fractured?) and gradational
							upper contact. Loading and flaser bedding along
							upper contact. Central 1' of unit contains
							30% quartz veining (veins up to 3" thick) at 45° to
							core axis.
							lenticular shaped seams and rounded barite
							nodules occur in the top 6" of unit.
335	345½	95%	335-337	4.19			massive laminated to med bedded barite.
			337-339	4.26 ✓	2		upper 1½' is cut by several microfaults which
			339-341	4.11			offset bedding by ¼ to 1". The fractures usually
			341-343	4.19			contain minor quartz. The barite is siliceous
			343-345.5	4.32 ✓	2.5		from 339' to end of section i.e. to 341'

4.22 10.5

DRILL HOLE RECORD

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							clay fracture: 340 3/4', 341 3/4.
							possible syndepositional fault offsetting bedding
							by ~3"-4" remain parallel to the core for ~1' at
							344', bedding is also contorted in some area
							bedding c/a: 50°
345 1/2	362	85%					black pyritic chert - chunky argillite - rock was hard
	EOH						with slow drilling. upper contact is carbonaceous
							and unit is slightly calcareous throughout
							Upper 3' contains 1% lenticular shaped and
							rounded (large to medium sized (up to .1" by
							2" in size) pyrite nodules which decrease
							in abundance to 2-3% for rest of hole.
							extremely broken up core in carbonaceous
							argillite from 357 to 357 1/2 and from 358 1/2 to
							359 1/2 (~85% recovery in these zones)
							rock is strongly quartz veined at:
							346', 352', 359 1/2 & 360 1/2
							bedding c/a: 45°
							acid test uncorrected 57°.