

Total Depth: 907.0' to 1357.2 NX Core

10/77

## DRILL HOLE LOG

Drill Hole No. MH-52

Date: \_\_\_\_\_

Bearing: \_\_\_\_\_ Inclination: \_\_\_\_\_

Drilled By: \_\_\_\_\_

Coordinates: North \_\_\_\_\_ East \_\_\_\_\_

Logged By: \_\_\_\_\_

Elevation: \_\_\_\_\_

Total Depth: \_\_\_\_\_

DEPTH		% RECOVERY	SAMPLE NUMBER	SAMPLE INTERVAL	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO				Sp. Gr.	BoSO <sub>4</sub>		
907.0	916.0							Fine grained gray sandstone, High R.Q.D.
								shale lens 910.5 - 911.0. Bedding dip at 911.0 is 74°S.
916.0	925.6							Gray sandstone as above, High R.Q.D.
925.6	935.8							Gray sandstone, black shale lens 929.0 - 929.3 grading back to sandstone. Abundant quartz and calcite stringers 929.0 - 934.0.
935.8	945.0							Gray sandstone, occasional qtz. and calcite stringers.
945.0	954.0							Gray sandstone, occasional qtz. and calcite stringer, locally sandstone is shaley.
954.0	964.0							As above, locally broken from jointing.
964.0	974.0							Sandstone as above.
974.0	984.0							Sandstone with High R.Q.D. occasional qtz. and calcite stringer.
984.0	986.0							Black shale lens.
								Possible small barite nodules Box 94, Barite dip at 984.5 is 85°S.

Drill Hole No. MH-52

Date: \_\_\_\_\_

Bearing: \_\_\_\_\_ Inclination: \_\_\_\_\_

Drilled By: \_\_\_\_\_

Coordinates: North \_\_\_\_\_ East \_\_\_\_\_

Logged By: \_\_\_\_\_

Elevation: \_\_\_\_\_

Total Depth: \_\_\_\_\_

Barite zone →

Barite zone →

Barite →

Barite →

Barite →

Barite →

DEPTH		%	SAMPLE	SAMPLE	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO	RECOVERY	NUMBER	INTERVAL	Sp. Gr.	BaSO <sub>4</sub>		
985.0	994.0							Gray sandstone
994.0	1004.0		12052					Black shale, with scattered barite, nodules, less than 10% BaSO <sub>4</sub> , 1003.0 - 1004.0 large nodules the size of quarter.
1000.0								
1004.0	1004.5							Gray sandstone.
1004.5	1007.0		12053					Black shale, barite zone small nodules 1004.8
		at	1006.0	Dip 80° S.				Fault Zone)
1007.0	1014.0							Gray sandstone, High R.Q.D.
1014.0	1023							Gray sandstone, High R.Q.D.
1023.0	1033.0							Gray sandstone occasional calcite stringer.
1033.0	1037.0		12054					Black shale lens, low grade barite, elongated nodules.
1037	1039							Gray sandstone
1039	1042		12055					Black shale, barite nodules low grade.
1042	1051							Black shales, low grade barite nodules scattered.
1051	1061							Black and gray shale, low grade barite nodules scattered shearing and gnarled bedding.
1061	1070							Gray sandstone, high R.Q.D.
1070	1080							Gray sandstone, High R.Q.D.

Drill Hole No. MH-52

Date: \_\_\_\_\_

Bearing: \_\_\_\_\_ Inclination: \_\_\_\_\_

Drilled By: \_\_\_\_\_

Coordinates: North \_\_\_\_\_ East \_\_\_\_\_

Logged By: \_\_\_\_\_

Elevation: \_\_\_\_\_

Total Depth: \_\_\_\_\_

DEPTH		%	SAMPLE	SAMPLE	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO	RECOVERY	NUMBER	INTERVAL	Sp. Gr.	BaSO <sub>4</sub>		
1080	1090							Gray sandstone, High R.Q.D.
1090	1099							Gray sandstone, High R.Q.D. quartz and calcite
								function filling 1097-1099.0
1099	1103.0							Gray sandstone.
1103	1105.0							Fault Breccia, abundant quartz and calcite
								fracture fillings.
1105.0	1108.0							Gray sandstone, high R.Q.D.
1108.0	1116.0							Gray sandstone, high R.Q.D.
1116.0	1127.8							Gray sandstone, high R.Q.D.
1127.8	1138.0							Gray sandstone, high R.Q.D.
1138.0	1147.6							Gray sandstone, high R.Q.D.
1147.6	1149.0							Gray sandstone, high R.Q.D.
1149.0	1157.0							Interbedded gray sandstone and black shale lenses.
1157.0	1158.0							Black shale.
1158.0	1167.0							Gray sandstone, high R.Q.D.
1167.0	1176.0							Gray sandstone, high R.Q.D.
1176.0	1185.6							Gray sandstone, high R.Q.D.
1185.6	1189.6							Black shale.
1201.0	1204.6							Gray sandstone
1204.6	1214.0							Gray sandstone, heavy qtz. and calcite stringer

1210 - 1211. This is a fracture filling.



## DRILL HOLE LOG

Drill Hole No. MH-52

Date: \_\_\_\_\_

Bearing: \_\_\_\_\_ Inclination: \_\_\_\_\_

Drilled By: \_\_\_\_\_

Coordinates: North \_\_\_\_\_ East \_\_\_\_\_

Logged By: \_\_\_\_\_

Elevation: \_\_\_\_\_

Total Depth: \_\_\_\_\_

DEPTH		% RECOVERY	SAMPLE NUMBER	SAMPLE INTERVAL	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO				Sp. Gr.	BaSO <sub>4</sub>		
1214.0	1216.0							Gray sandstone.
1216.0	1223							Black shale
1223	1233							Black shale, highly carbanaceous.
1233	1241.0							Black shale, 124.0 bedding dip is 85°S., 1241 slicken sides.
1241.0	1250							Gray sandstone, wisp of black shale High R.Q.D.
1250	1260							Gray sandstone, R.Q.D.
1260	1268							Black shale and interbedded gray standstone. Brecciated at 1268
1268	1276							Gray sandstone.
1276	1278							Black shale, thin gray sandstone lamina.
1278	1290							Light gray sandstone, high R.Q.D.
1290	1294							Black shale.
1294	1305.0							Gray sandstone, high R.Q.D.
1305.0	1315.0							Gray sandstone High R.Q.D.
1315.0	1324.0							Gray sandstone, occasional wisps of black shale.
1324.0	1334							Gray sandstone as above.
1334	1338							Gray sandstone.
1338	1345							Black shale, high carbonaceous.
1345	1352							Light gray sandstone, medium grain size.

**Total Depth:** \_\_\_\_\_

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DRILL HOLE - MH-52

Sample #	Footage	Specific Gravity	%BaSO4
12052	994.0 - 1000.0	2.854	8.49
12052A	1001.0 - 1004.0	2.874	10.25
12053	1004.5 - 1007.0	2.824	5.80
12054	1033.0 - 1037.0	3.007	21.37
12055	1039.0 - 1042.0	2.850	8.14
12056	1042.0 - 1046.0	2.868	9.73
12056A	1046.0 - 1051.0	2.897	12.25
12057	1051.0 - 1056.0	2.833	6.62
12057A	1056.0 - 1061.0	2.878	10.60

## DRILL HOLE RECORD

Drill Hole No.: MH-52 Inclination: 84½° N.  
Bearing: \_\_\_\_\_

Date: September, 1978

Property: Fancy Hill East Pit

Drilled By: Boyles Bro., Bob Kesty, Wayne Cole, Wade Betts &

Co-ordinates: North 626,285.014 East 1,456,358,113

Logged By: Ferryl C. Gale Ricky Deaton

Elevation: 925.44

Total Depth: 907.0 Core 0.0 - 907.0

DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	BaSO4	Cond.	
			Eastman	Oil Well	Survey	Camera	
			Eastman	- Whipstock,	Inc.		
				Dip		AZ	
			Surface	84½° N		N.24E.	
			105.0	84½° N		N.22½E.	
			205.0	82½° N		N.22½E.	
			307.0	80° N.		N.31½E.	
			407.0	79° N.		N.33½E.	
			507.0	77½° N		N.34 E.	
			607.0	75° N.		N.32½E.	
			707.0	74½° N		N.31½E.	
			807.0	71½° N		N.32 E.	
			907.0 A	70° N.		N. 26½E.	
			907.0 B	70° N.		N. 26½E.	
			Total Depth 907.0 ft.				
0.0	10.0						Set casing (no core recovery).
10.0	22.0						Light fine grained sandstone, very competent, high
							R.Q.D. well cemented.
22.0	24.2						Sandstone as before.
24.2	36.0						Sandstone as before, Bedding dip 80° S.
36.0	49.0						As before, highly fractured and broken, numerous qtz. and
							calcite veinlets, from slicken sides fault is Northeast to
							southwest.



## DRILL HOLE RECORD

 Drill Hole No.: MH-52 Inclination: \_\_\_\_\_

Date: \_\_\_\_\_

Property: \_\_\_\_\_

Drilled By: \_\_\_\_\_

Co-ordinates: North \_\_\_\_\_ East \_\_\_\_\_

Logged By: \_\_\_\_\_

Elevation: \_\_\_\_\_

Total Depth: \_\_\_\_\_

DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	BaSO <sub>4</sub>	Cond.	
49.0	61.0						As before, bedding dip 83°S.
61.0	73.4						Sandstone as before plus thin lamina of black shale with slicken sides along bedding.
73.4	85.0						Sandstone as before.
85.0	97.0						Sandstone as before bedding dip 85°S.
97.0	108.0						Sandstone as before, high R.Q.D.
108.0	121.0						Sandstone as before, bedding dip 86°S.
121.0	133.0						Sandstone with occasional lenses of black shale.
133.0	145.0						Interbedded gray sandstone and black shale.
145.0	157.0						Sandstone as before, high R.Q.D.
157.0	169.0						Sandstone as before, bedding dip 85°S.
169.0	181.0						Sandstone, occasional thin lamina of black shale.
181.0	193.0						Sandstone, high R.Q.D.
193.0	205.5						" " "
205.0	217.5						Sandstone, high R.Q.D. plus qtz. and calcite veinlets.
217.5	229.0						Sandstone as before, High R.Q. D.
229.0	241.0						" " " "
241.0	254.0						" " " "
254.0	266.0						" " " "
266.0	278.5						Sandstone as before, occasional thin limia of black shale.

## DRILL HOLE RECORD

Drill Hole No.: MH-52 Inclination:

Date:

Property:

Drilled By:

Co-ordinates: North East

Logged By:

Elevation:

Total Depth:

DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	BaSO <sub>4</sub>	Cond.	
278.5	290.0						As above.
290.0	302.0						As above, movement along bedding slicken sides.
302.0	314.0						As above.
314.0	326.0						Sandstone as above, high R.Q.D.
326.0	338.0						" " " "
338.0	350.2						Sandstone as before, bedding dip 85° S.
350.2	362.0						Sandstone as before.
362.0	374.0						" " "
374.0	386.0						" " "
386.0	398.0						" " "
398.0	410.0						" " "
410.0	422.0						Sandstone with thin lamina of black shale, some slip
							slip along bedding surfaces.
422.0	434.0						" " " "
434.0	447.0						" " " "
447.0	459.0						" " " "
459.0	471.0						" " " "
471.0	483.0						" " " "
483.0	495.0						" " " "
495.0	505.0						" " " "

## DRILL HOLE RECORD

Drill Hole No.: MH-52 Inclination: \_\_\_\_\_

Date: \_\_\_\_\_

Property: \_\_\_\_\_

Drilled By: \_\_\_\_\_

Co-ordinates: North \_\_\_\_\_ East \_\_\_\_\_

Logged By: \_\_\_\_\_

Elevation: \_\_\_\_\_

Total Depth: \_\_\_\_\_

DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	BaSO4	Cond.	
505.0	517.0						Sandstone, high R.Q.D., bedding dip 88° S.
517.0	529.0						" " " "
529.0	542.0						Sandstone occasional qtz. and calcite veinlets.
542.0	554.0						Sandstone as before, high R.Q.D.
554.0	567.0						" " " "
567.0	579.0						" " " "
579.0	592.0						" " " "
592.0	604.0						" " " "
604.0	616.0						Interbedded sandstone and black shale.
616.0	628.0						" " " "
628.0	640.0						Sandstone with wisp of black shale.
640.0	653.0						" " " "
653.0	665.0						Interbedded sandstone and shale.
665.0	677.0						" " " "
677.0	689.0						" " " ", bedding dip at 87° N.
689.0	701.0						" " " "
701.0	712.0						" " " "
712.0	724.0						" " " "
724.0	736.0						Interbedded sandstone and shale.

## DRILL HOLE RECORD

 Drill Hole No.: MH-52 Inclination: \_\_\_\_\_

Date: \_\_\_\_\_

Property: \_\_\_\_\_

Drilled By: \_\_\_\_\_

Co-ordinates: North \_\_\_\_\_ East \_\_\_\_\_

Logged By: \_\_\_\_\_

Elevation: \_\_\_\_\_

Total Depth: \_\_\_\_\_

DEPTH		SAMPLE RECOVERY	SAMPLE NUMBER	ANALYSES			DESCRIPTION OF MATERIAL DRILLED
FROM	TO			Sp. Gr.	BaSO <sub>4</sub>	Cond.	
736.0	748.0						Interbedded sandstone and shale.
748.0	761.0						" " " "
761.0	773.0						" " " "
773.0	785.0						" " " "
785.0	797.0						Sandstone, very competent, high R.Q. D.
797.0	809.0						" " " "
809.0	822.0						" " " "
822.0	834.0						" " " "
834.0	847.0						" " " "
847.0	859.0						" " " "
859.0	872.0						" " " "
872.0	885.0						" " " "
885.0	897.0						" " " "
897.0	907.0						" " " "
							This hole never intersected barite, stopped because too deep to ever mine.