

RECEIVED
DEC 18 2003
OCC WICHITA

DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
STC 21076.D75

ORIGINAL

Company L. D. Drilling, Inc. Lease & Well No. Miner-Williamson No. 1

Elevation 2364 KB Formation Cherokee Sand Effective Pay -- Ft. Ticket No. 1777

Date 9-24-03 Sec. 33 Twp. 18S Range 24W County Ness State Kansas

Test Approved By Kim B. Shoemaker Diamond Representative Roger D. Friedly

Formation Test No. 1 Interval Tested from 4,354 ft. to 4,399 ft. Total Depth 4,399 ft.

Packer Depth 4,349 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 4,354 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 4,334 ft. Recorder Number Elec. Cap. 5,000 psi

Bottom Recorder Depth (Outside) 4,396 ft. Recorder Number 13386 Cap. 4,000 psi

Below Straddle Recorder Depth ft. Recorder Number Cap. psi

Drilling Contractor Pickrell Drilling Co., Inc. - Rig 10 Drill Collar Length 60 ft. I.D. 2 1/4 in.

Mud Type Chemical Viscosity 52 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.35 Water Loss 8.8 cc. Drill Pipe Length 4,261 ft. I.D. 3 1/2 in.

Chlorides 3,800 P.P.M. Test Tool Length 33 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number BJ No. 1 Anchor Length 45 ft. Size 4 1/2 - FH in.

Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 - XH in.

Blow: 1st Open: Weak surface blow. Died in 11 mins.

2nd Open: No blow.

Recovered 1 ft. of drilling mud = .004920 bbls.

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks Tool Sample Grind Out: No show. All drilling mud.

Time Set Packer(s) 7:39 P.M. ^{XXM.} Time Started Off Bottom 9:39 P.M. ^{XXM.} Maximum Temperature 112°

Initial Hydrostatic Pressure 2079 P.S.I. (A)

Initial Flow Period 30 Minutes (B) 8 P.S.I. to (C) 11 P.S.I.

Initial Closed In Period 30 Minutes (D) 81 P.S.I.

Final Flow Period 30 Minutes (E) 10 P.S.I. to (F) 12 P.S.I.

Final Closed In Period 30 Minutes (G) 45 P.S.I.

Final Hydrostatic Pressure 2029 P.S.I. (H)

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FLUID SAMPLE DATA

Company L. D. Drilling, Inc.
Lease & Well No. Miner-Williamson No. 1
Date 9-24-03 Sec. 33 Twp. 18 S Range 24 W
Formation Test No. 1 Interval Tested From 4,354 ft. to 4,399 ft. Total Depth 4,399 ft.
Formation Cherokee Sand

	MUD PIT	RECOVERY	
Viscosity	<u>52</u> CP	<u>--</u> CP	TOO SMALL TO CHECK.
Weight	<u>9.35</u>	<u>--</u>	
Water Loss	<u>8.8</u> CC	<u>--</u> CC	
PH Factor	<u>10.0</u>	<u>--</u>	

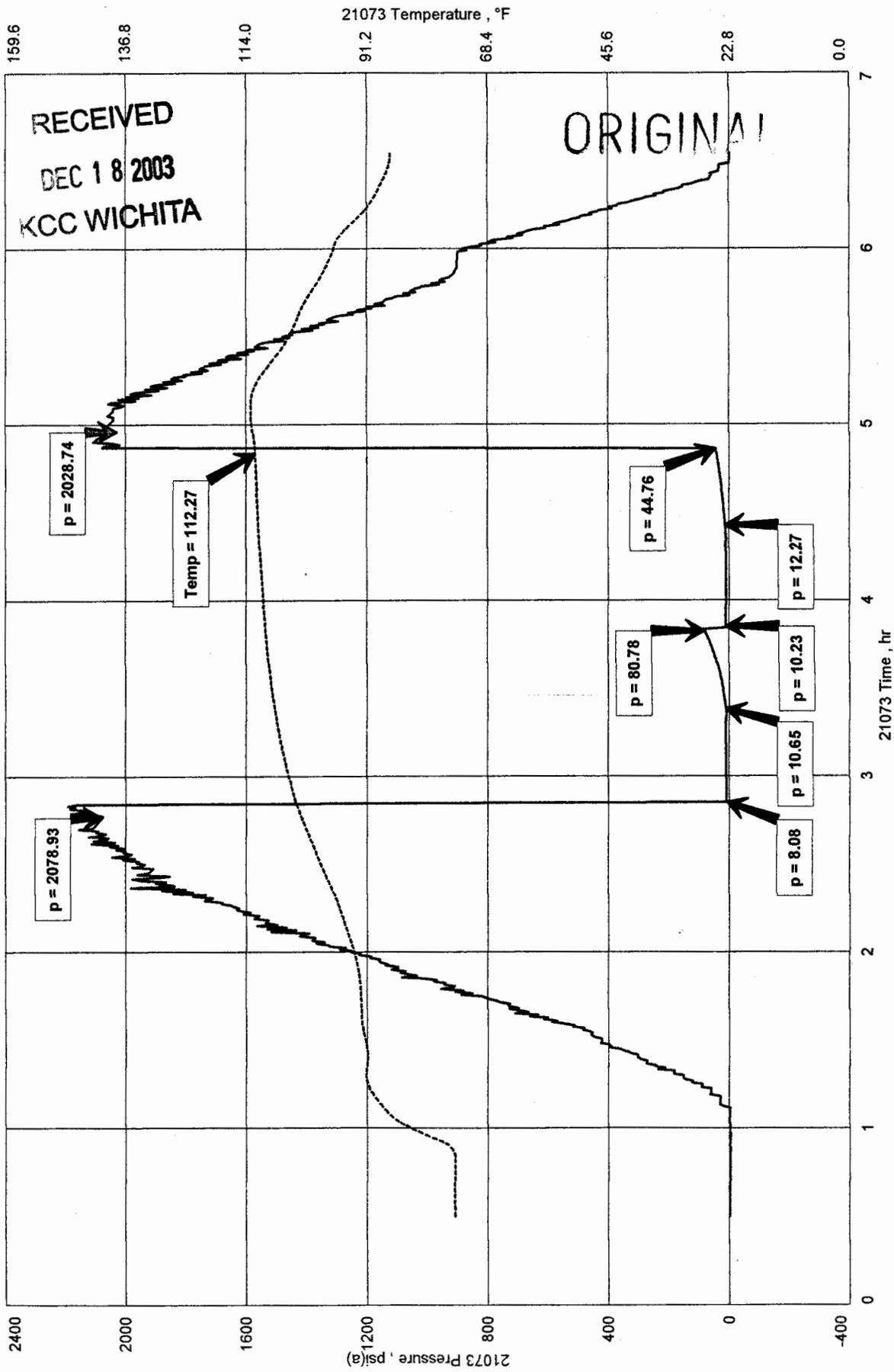
	RESISTIVITY	CHLORIDE CONTENT
Recovery Water	<u>--</u> @ <u>--</u> °F.	<u>--</u> ppm
Recovery Mud	<u>--</u> @ <u>--</u> °F.	<u>--</u> ppm
Recovery Mud Filtrate	<u>--</u> @ <u>--</u> °F.	<u>--</u> ppm
Mud Pit Sample	<u>1.00</u> @ <u>80</u> °F.	<u>5,100</u> ppm
Mud Pit Sample Filtrate	<u>1.10</u> @ <u>76</u> °F.	<u>5,000</u> ppm

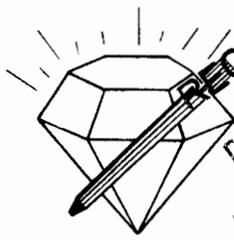
Sample Taken By ROGER D. FRIEDLY
Witness By Kim B. Shoemaker
Remarks Pit filtrate triton dish chlorides were 3,800 Ppm.

L.D. DRILLING, INC.
SEC 33-18S-24W
Start Test Date: 2003/09/24
Final Test Date: 2003/09/25

#1 MINER/WILLIAMSON
Formation: CHERO SAND 4354'-4399'

#1 MINER/WILLIAMSON





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ORIGINAL

Company L. D. Drilling, Inc. Lease & Well No. Miner-Williamson No. 1
Elevation 2364 KB Formation Cherokee Sand Effective Pay -- Ft. Ticket No. 1778
Date 9-25-03 Sec. 33 Twp. 18S Range 24W County Ness State Kansas
Test Approved By Kim B. Shoemaker Diamond Representative Roger D. Friedly

Formation Test No. 2 Interval Tested from 4,352 ft. to 4,412 ft. Total Depth 4,412 ft.
Packer Depth 4,347 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.
Packer Depth 4,352 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.
Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 4,332 ft. Recorder Number Elec. Cap. 5,000 psi
Bottom Recorder Depth (Outside) 4,409 ft. Recorder Number 13386 Cap. 4,000 psi
Below Straddle Recorder Depth ft. Recorder Number Cap. psi

Drilling Contractor Pickrell Drilling Co., Inc. - Rig 10 Drill Collar Length 60 ft. I.D. 2 1/4 in.
Mud Type Chemical Viscosity 53 Weight Pipe Length -- ft. I.D. -- in.
Weight 9.3 Water Loss 8.8 cc. Drill Pipe Length 4,259 ft. I.D. 3 1/2 in.
Chlorides 3,600 P.P.M. Test Tool Length 33 ft. Tool Size 3 1/2 - IF in.
Jars: Make Bowen Serial Number BJ No. 1 Anchor Length 30' perf. w/30' drill pipe Size 4 1/2 - FH in.
Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 - XH in.

Blow: 1st Open: Weak, 1/2 in., blow increasing. Off bottom of bucket in 14 mins. No blow back during shut-in.
2nd Open: Weak, 1/8 in., blow increasing. Off bottom of bucket in 24 mins. No blow back during shut-in.

Recovered 218 ft. of watery mud with a trace of oil = 3.095600 bbls. (Grind out: 41%-water; 59%-mud)
Recovered 62 ft. of muddy water = .880400 bbls. (Grind out: 30%-mud; 70%-water)
Recovered 184 ft. of muddy water = 2.056000 bbls. (Grind out: 5%-mud; 95%-water)
Recovered 464 ft. of TOTAL FLUID = 6.032000 bbls.

Recovered ft. of
Remarks Tool Sample Grind Out: 1%-oil; 32%-water; 67%-mud

Time Set Packer(s) 8:59 ~~PM~~ ^{A.M.} Time Started Off Bottom 11:59 ~~PM~~ ^{A.M.} Maximum Temperature 119°
Initial Hydrostatic Pressure (A) 2083 P.S.I.
Initial Flow Period Minutes 30 (B) 27 P.S.I. to (C) 121 P.S.I.
Initial Closed In Period Minutes 45 (D) 1079 P.S.I.
Final Flow Period Minutes 45 (E) 131 P.S.I. to (F) 218 P.S.I.
Final Closed In Period Minutes 60 (G) 1014 P.S.I.
Final Hydrostatic Pressure (H) 2060 P.S.I.

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FLUID SAMPLE DATA

Company L. D. Drilling, Inc.

Lease & Well No. Miner-Williamson No. 1

Date 9-25-03 Sec. 33 Twp. 18 S Range 24 W

Formation Test No. 2 Interval Tested From 4,352 ft. to 4,412 ft. Total Depth 4,412 ft.

Formation Cherokee Sand

	<u>MUD PIT</u>	<u>RECOVERY</u>	
Viscosity	<u>53</u> CP	<u>40</u> CP	
Weight	<u>9.3</u>	<u>8.9</u>	
Water Loss	<u>8.8</u> CC	<u>20.0+CC</u>	
PH Factor	<u>10.0</u>	<u>8.0</u>	<u>Water</u> <u>7.0</u>

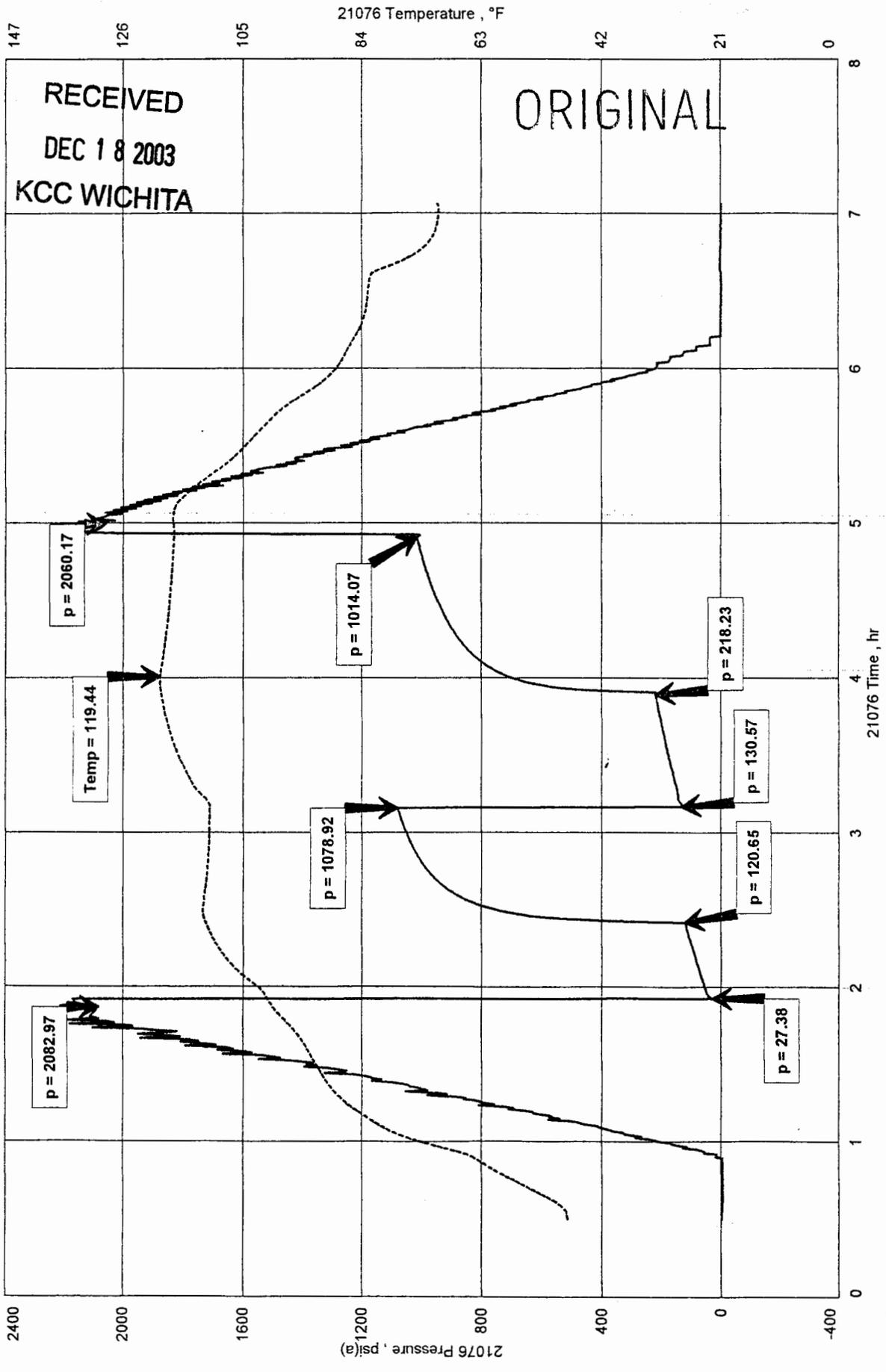
	<u>RESISTIVITY</u>	<u>CHLORIDE</u> <u>CONTENT</u>
Recovery Water	<u>.28</u> @ <u>85 °F.</u>	<u>19,500</u> ppm
Recovery Mud	<u>.40</u> @ <u>83 °F.</u>	<u>12,500</u> ppm
Recovery Mud Filtrate	<u>.39</u> @ <u>85 °F.</u>	<u>13,000</u> ppm
Mud Pit Sample	<u>1.20</u> @ <u>74 °F.</u>	<u>5,000</u> ppm
Mud Pit Sample Filtrate	<u>1.20</u> @ <u>76 °F.</u>	<u>4,600</u> ppm

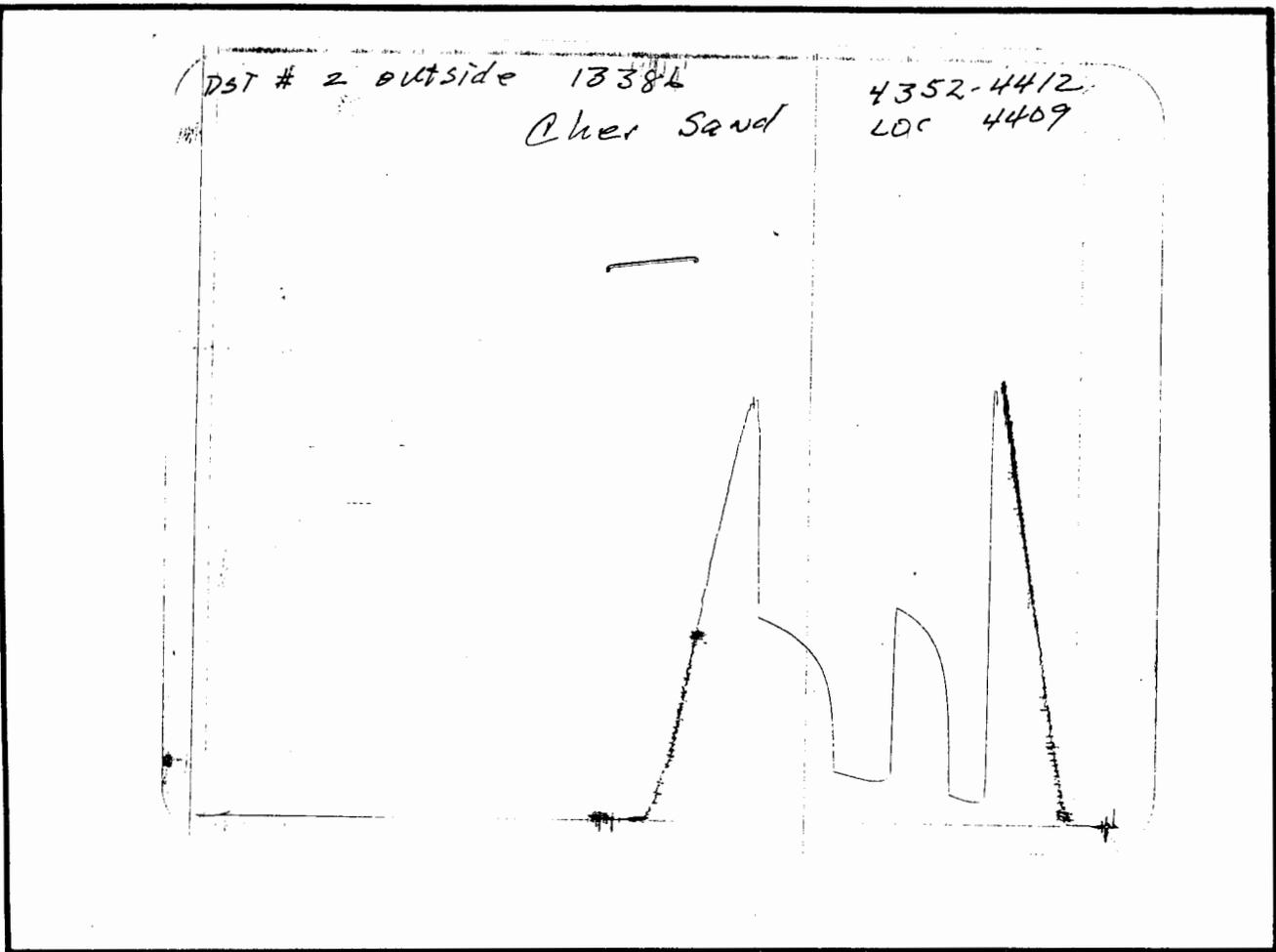
Sample Taken By ROGER D. FRIEDLY

Witness By Kim B. Shoemaker

Remarks Pit filtrate triton dish chlorides were 3,600 Ppm.
Recovery filtrate triton dish chlorides were 10,000 Ppm.
Recovery water dish chlorides were 17,500 Ppm.

#1 MINERWILLIAMSON





This is an actual photograph of recorder chart.

POINT	PRESSURE		PSI
	Field Reading	Elec. Office Reading	
(A) Initial Hydrostatic Mud	2083	2083	PSI
(B) First Initial Flow Pressure.....	27	27	PSI
(C) First Final Flow Pressure	121	121	PSI
(D) Initial Closed-in Pressure	1079	1079	PSI
(E) Second Initial Flow Pressure.....	131	131	PSI
(F) Second Final Flow Pressure.....	218	218	PSI
(G) Final Closed-in Pressure.....	1014	1014	PSI
(H) Final Hydrostatic Mud.....	2060	2060	PSI