



DIAMOND TESTING

P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
STC 21098.D25

Company Mull Drilling Company, Inc. Lease & Well No. Nurse No. 1-6

Elevation 1423 KB Formation Mississippi Effective Pay -- Ft. Ticket No. 1915

Date 9-14-04 Sec. 6 Twp. 34S Range 11W County Barber State Kansas

Test Approved By Kent Crisler Diamond Representative Roger D. Friedly

Formation Test No. 1 Interval Tested from 4,556 ft. to 4,580 ft. Total Depth 4,580 ft.

Packer Depth 4,551 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 4,556 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 4,537 ft. Recorder Number 21098 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 4,577 ft. Recorder Number 13387 Cap. 4,000 psi

Below Straddle Recorder Depth ft. Recorder Number Cap. psi

Drilling Contractor Pickrell Drilling Co., Inc. - Rig 1 Drill Collar Length 247 ft. I.D. 2 1/4 in.

Mud Type Chemical Viscosity 48 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.3 Water Loss 9.6 cc. Drill Pipe Length 4,277 ft. I.D. 3 1/2 in.

Chlorides 4,000 P.P.M. Test Tool Length 32 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number 1 Anchor Length 24 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, 1/8 in., blow increasing to 7 1/2 ins. No blow back during shut-in.

2nd Open: Good, 5 in., blow increasing. Off bottom of bucket in 22 mins. No blow back during shut-in.

Recovered 610 ft. of faint gas in pipe

Recovered 10 ft. of drilling mud = .049200 bbls.

Recovered 10 ft. of TOTAL FLUID = .049200 bbls.

Recovered ft. of

Recovered ft. of

Remarks Tool Sample Grind Out: 100% drilling mud with a few oil specks

Time Set Packer(s) 11:25 ~~XXX~~ ^{A.M.} Time Started Off Bottom 2:25 ~~XXX~~ ^{P.M.} Maximum Temperature 121°

Initial Hydrostatic Pressure 2195 P.S.I. (A)

Initial Flow Period 30 Minutes (B) 15 P.S.I. to (C) 20 P.S.I.

Initial Closed In Period 60 Minutes (D) 261 P.S.I.

Final Flow Period 30 Minutes (E) 20 P.S.I. to (F) 26 P.S.I.

Final Closed In Period 60 Minutes (G) 324 P.S.I.

Final Hydrostatic Pressure 2138 P.S.I. (H)



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Page 2 of 3 Pages

FLUID SAMPLE DATA

Company Mull Drilling Company, Inc.

Lease & Well No. Nurse No. 1-6

Date 9-14-04 Sec. 6 Twp. 34 S Range 11 W

Formation Test No. 1 Interval Tested From 4,556 ft. to 4,580 ft. Total Depth 4,580 ft.

Formation Mississippi

	MUD PIT	RECOVERY
Viscosity	<u>48</u> CP	<u>50</u> CP
Weight	<u>9.3</u>	<u>9.3</u>
Water Loss	<u>9.6</u> CC	<u>9.6</u> CC
PH Factor	<u>8.0</u>	<u>8.5</u>

	RESISTIVITY	CHLORIDE CONTENT
Recovery Water	<u>-- @ -- °F.</u>	<u>--</u> ppm
Recovery Mud	<u>.80 @ 91 °F.</u>	<u>6,000</u> ppm
Recovery Mud Filtrate	<u>.90 @ 92 °F.</u>	<u>5,400</u> ppm
Mud Pit Sample	<u>.80 @ 93 °F.</u>	<u>5,800</u> ppm
Mud Pit Sample Filtrate	<u>.84 @ 96 °F.</u>	<u>5,200</u> ppm

Sample Taken By ROGER D. FRIEDLY

Witness By Kent Crisler

Remarks Pit filtrate triton dish chlorides were 4,000 Ppm
Recovery filtrate triton dish chlorides were 4,100 Ppm

GENERAL INFORMATION

Client Information:

Company: MULL DRILLING COMPANY, INC.
Contact: ERNIE MORRISON
Phone: Fax: e-mail:

Site Information:

Contact: KENT CHRISLER
Phone: Fax: e-mail:

Well Information:

Name: NUSE #1-6
Operator: MULL DRILLING COMPANY, INC.
Location-Downhole: DST #1 MISS. 4,556' - 4,580'
Location-Surface: C-NE-SE SEC 6-34S-11W BARBER COUNTY

Test Information:

Company: DIAMOND TESTING
Representative: ROGER D. FRIEDLY
Supervisor: KENT CHRISLER
Test Type: CONVENTIONAL Job Number:
Test Unit: NO 1
Start Date: 2004/09/14 Start Time: 08:32:00
End Date: 2004/09/14 End Time: 17:40:30
Report Date: Prepared By:
Remarks: Qualified By:

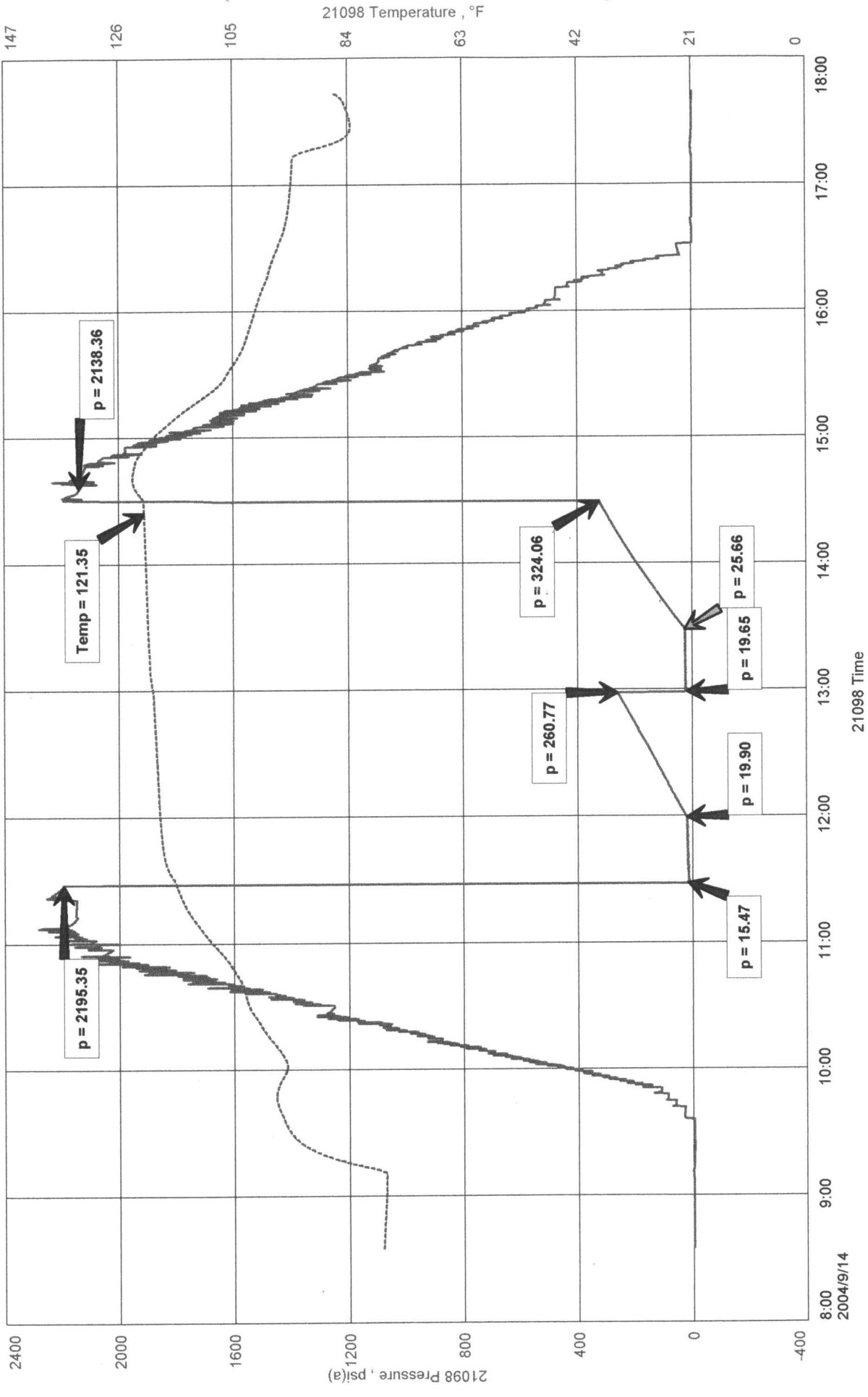
RECOVERED: 610' FAINT GAS IN PIPE
10' DM

TOOL SAMPLE DM WITH A FEW OIL SPECKS.

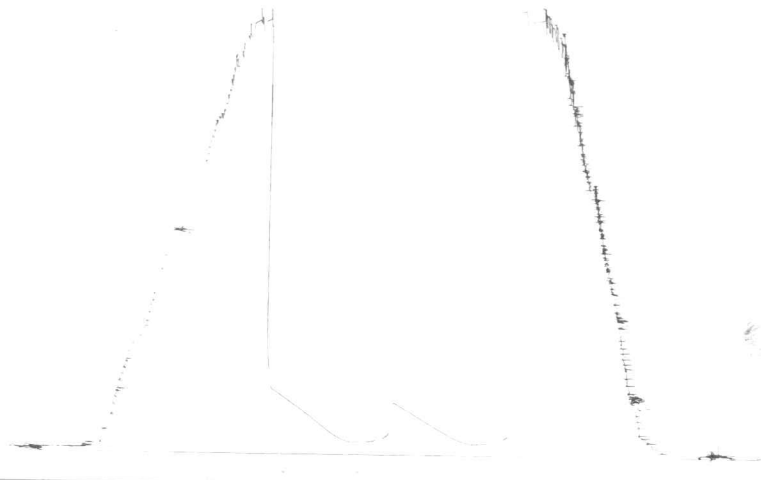
MULL DRILLING COMPANY, INC.
DST #1 MISS. 4,556' - 4,580'
Start Test Date: 2004/09/14
Final Test Date: 2004/09/14

NUSE #1-6
Formation: DST #1 MISS. 4,556' - 4,580'
Pool: UNKNOWN

NUSE #1-6

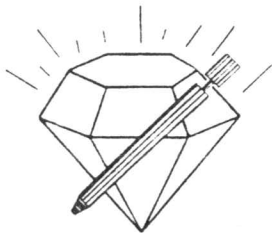


DST # 1 * Outside 13387 ——— 4556 — 4580
 77255. 206 4577



This is an actual photograph of recorder chart.

POINT	PRESSURE		Elec. Office Reading	PSI
	Field Reading			
(A) Initial Hydrostatic Mud	2195		2195	PSI
(B) First Initial Flow Pressure.....	15		15	PSI
(C) First Final Flow Pressure	20		20	PSI
(D) Initial Closed-in Pressure	261		261	PSI
(E) Second Initial Flow Pressure.....	20		20	PSI
(F) Second Final Flow Pressure.....	26		26	PSI
(G) Final Closed-in Pressure.....	324		324	PSI
(H) Final Hydrostatic Mud.....	2138		2138	PSI



DIAMOND TESTING

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STC 21098.D26

Company Mull Drilling Company, Inc. Lease & Well No. Nurse No. 1-6

Elevation 1423 KB Formation Mississippi Effective Pay -- Ft. Ticket No. 1916

Date 9-15-04 Sec. 6 Twp. 34S Range 11W County Barber State Kansas

Test Approved By Kent Crisler Diamond Representative Roger D. Friedly

Formation Test No. 2 Interval Tested from 4,581 ft. to 4,613 ft. Total Depth 4,613 ft.

Packer Depth 4,576 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 4,581 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 4,562 ft. Recorder Number 21098 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 4,610 ft. Recorder Number 13387 Cap. 4,000 psi

Below Straddle Recorder Depth ft. Recorder Number psi

Drilling Contractor Pickrell Drilling Co., Inc. - Rig 1 Drill Collar Length 247 ft. I.D. 2 1/4 in.

Mud Type Chemical Viscosity 48 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.2 Water Loss 9.6 cc. Drill Pipe Length 4,302 ft. I.D. 3 1/2 in.

Chlorides 5,500 P.P.M. Test Tool Length 32 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number 1 Anchor Length 32 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: Good, 4 in., blow increasing. Off bottom of bucket in 3 mins. No blow back during shut-in.
2nd Open: Strong blow. Off bottom of bucket immediately. No blow back during shut-in.

Recovered 3,125 ft. of gas in pipe

Recovered 60 ft. of drilling mud with a few oil specks = .295200 bbls.

Recovered 60 ft. of TOTAL FLUID = .295200 bbls.

Recovered ft. of

Recovered ft. of

Remarks Tool Sample Grind Out: 100%-drilling mud with a few oil specks

Time Set Packer(s) 6:53 ~~XXX~~ A.M. Time Started Off Bottom 10:38 ~~XXX~~ A.M. Maximum Temperature 120°

Initial Hydrostatic Pressure (A) 2149 P.S.I.

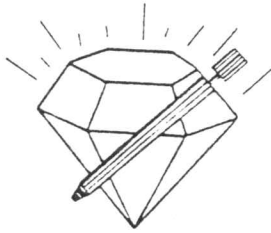
Initial Flow Period Minutes 30 (B) 16 P.S.I. to (C) 34 P.S.I.

Initial Closed In Period Minutes 60 (D) 692 P.S.I.

Final Flow Period Minutes 45 (E) 14 P.S.I. to (F) 50 P.S.I.

Final Closed In Period Minutes 90 (G) 706 P.S.I.

Final Hydrostatic Pressure (H) 2137 P.S.I.



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FLUID SAMPLE DATA

Company Mull Drilling Company, Inc.

Lease & Well No. Nurse No. 1-6

Date 9-15-04 Sec. 6 Twp. 34 S Range 11 W

Formation Test No. 2 Interval Tested From 4,581 ft. to 4,613 ft. Total Depth 4,613 ft.

Formation Mississippi

	<u>MUD PIT</u>	<u>RECOVERY</u>
Viscosity	<u>48</u> CP	<u>64</u> CP
Weight	<u>9.2</u>	<u>9.1</u>
Water Loss	<u>9.6</u> CC	<u>10.0</u> CC
PH Factor	<u>9.0</u>	<u>9.5</u>

	<u>RESISTIVITY</u>	<u>CHLORIDE CONTENT</u>
Recovery Water	<u>-- @ -- °F.</u>	<u>--</u> ppm
Recovery Mud	<u>.68 @ 88 °F.</u>	<u>8,200</u> ppm
Recovery Mud Filtrate	<u>.66 @ 90 °F.</u>	<u>7,400</u> ppm
Mud Pit Sample	<u>.83 @ 74 °F.</u>	<u>7,000</u> ppm
Mud Pit Sample Filtrate	<u>.90 @ 76 °F.</u>	<u>6,400</u> ppm

Sample Taken By ROGER D. FRIEDLY

Witness By Kent Crisler

Remarks Pit filtrate triton dish chlorides were 5,500 Ppm
Recovery filtrate triton dish chlorides were 6,100 Ppm

GENERAL INFORMATION

Client Information:

Company: MULL DRILLING COMPANY, INC.
Contact: ERNIE MORRISON
Phone: Fax: e-mail:

Site Information:

Contact: KENT CHRISLER
Phone: Fax: e-mail:

Well Information:

Name: NURSE # 1-6
Operator: MULL DRILLING COMPANY, INC.
Location-Downhole: DST #2 MISS. 4,581' - 4,613'
Location-Surface: C-NE-SE SEC 6-34S-11W BARBER, COUNTY

Test Information:

Company: DIAMOND TESTING
Representative: ROGER D. FRIEDLY
Supervisor: KENT CHRISLER
Test Type: CONVENTIONAL Job Number:
Test Unit: NO 1
Start Date: 2004/09/15 Start Time: 03:03:00
End Date: 2004/09/15 End Time: 13:07:40
Report Date: Prepared By:
Remarks: Qualified By:

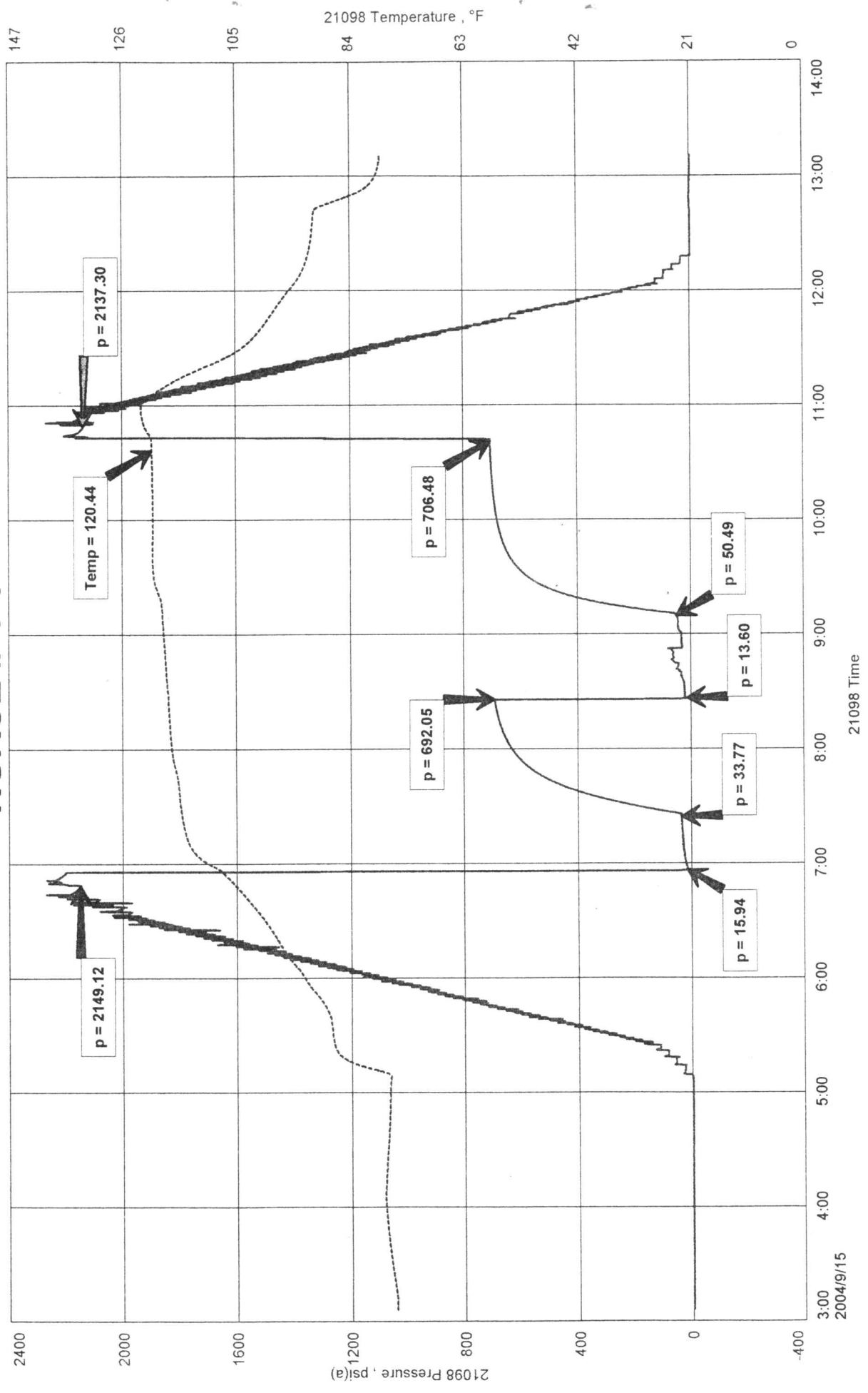
RECOVERED: 60 VSLTOSDM LESS THAN 1% OIL 100% MUD.
3,125' GAS IN PIPE

TOOL SAMPLE 100% OIL WITH A FEW OIL SPECKS.

MULL DRILLING COMPANY, INC.
 DST #2 MISS. 4,581' - 4,613'
 Start Test Date: 2004/09/15
 Final Test Date: 2004/09/15

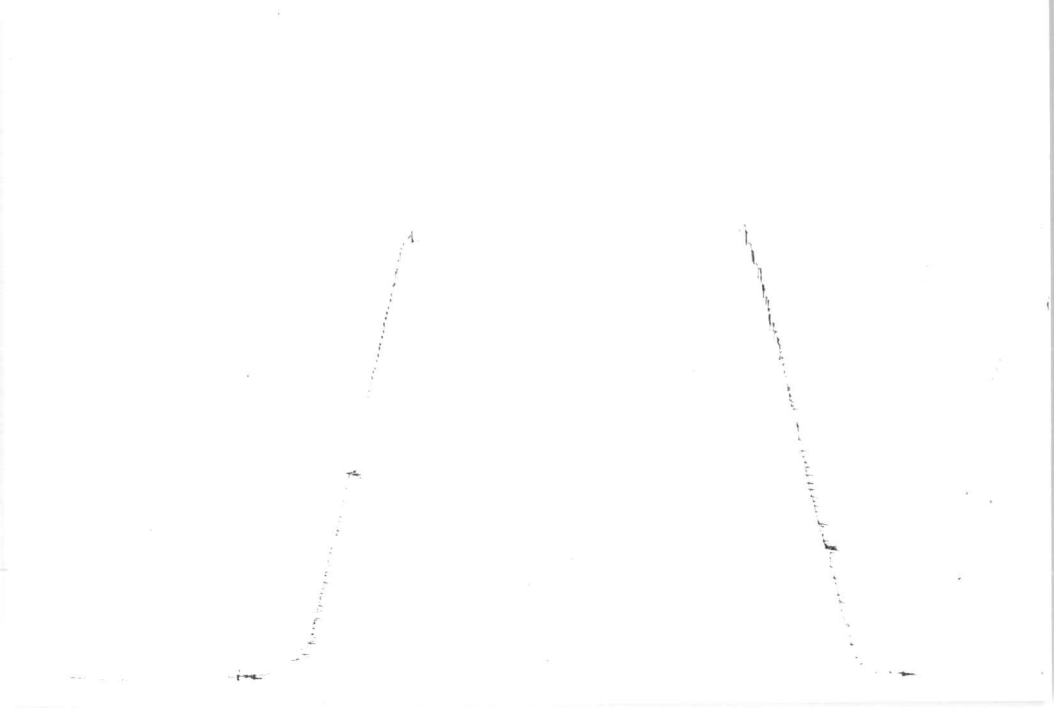
NURSE # 1-6
 Formation: DST #2 MISS 4,581' - 4,613'
 Pool: UNKNOWN

NURSE # 1-6



IST # 2 outside 13387
Miss

4581-4613
LOC 4610



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Elec. Office Reading	
(A) Initial Hydrostatic Mud	2149	2149	PSI
(B) First Initial Flow Pressure.....	16	16	PSI
(C) First Final Flow Pressure	34	34	PSI
(D) Initial Closed-in Pressure	692	692	PSI
(E) Second Initial Flow Pressure.....	14	14	PSI
(F) Second Final Flow Pressure.....	50	50	PSI
(G) Final Closed-in Pressure.....	706	706	PSI
(H) Final Hydrostatic Mud.....	2137	2137	PSI



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STC 21098.D27

Company Mull Drilling Company, Inc. Lease & Well No. Nurse No. 1-6
Elevation 1423 KB Formation Mississippi Effective Pay -- Ft. Ticket No. 1917
Date 9-16-04 Sec. 6 Twp. 34S Range 11W County Barber State Kansas
Test Approved By Kent Crisler Diamond Representative Roger D. Friedly

Formation Test No. 3 Interval Tested from 4,614 ft. to 4,643 ft. Total Depth 4,643 ft.
Packer Depth 4,609 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.
Packer Depth 4,614 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

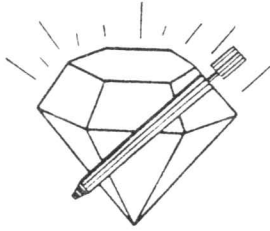
Depth of Selective Zone Set ft.
Top Recorder Depth (Inside) 4,595 ft. Recorder Number 21098 Cap. 5,000 psi
Bottom Recorder Depth (Outside) 4,640 ft. Recorder Number 13387 Cap. 4,000 psi
Below Straddle Recorder Depth ft. Recorder Number psi

Drilling Contractor Pickrell Drilling Co., Inc. - Rig 1 Drill Collar Length 247 ft. I.D. 2 1/4 in.
Mud Type Chemical Viscosity 51 Weight Pipe Length -- ft. I.D. -- in.
Weight 9.1 Water Loss 10.0 cc. Drill Pipe Length 4,335 ft. I.D. 3 1/2 in.
Chlorides 5,800 P.P.M. Test Tool Length 32 ft. Tool Size 3 1/2 - IF in.
Jars: Make Bowen Serial Number 1 Anchor Length 29 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, 1/2 in., blow decreasing. Died in 27 mins.
2nd Open: No blow.

Recovered 10 ft. of drilling mud = .049200 bbls. (Grind out: 100%-drilling mud)
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of
Remarks Tool Sample Grind Out: 100%- drilling mud with very few oil specks

Time Set Packer(s) 4:48 ~~XXX~~ ^{A.M.} Time Started Off Bottom 8:18 ~~XXX~~ ^{A.M.} Maximum Temperature 117°
Initial Hydrostatic Pressure (A) 2205 P.S.I.
Initial Flow Period Minutes 30 (B) 14 P.S.I. to (C) 20 P.S.I.
Initial Closed In Period Minutes 45 (D) 78 P.S.I.
Final Flow Period Minutes 45 (E) 20 P.S.I. to (F) 26 P.S.I.
Final Closed In Period Minutes 90 (G) 98 P.S.I.
Final Hydrostatic Pressure (H) 2167 P.S.I.



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FLUID SAMPLE DATA

Company Mull Drilling Company, Inc.
Lease & Well No. Nurse No. 1-6
Date 9-16-04 Sec. 6 Twp. 34 S Range 11 W
Formation Test No. 3 Interval Tested From 4,614 ft. to 4,643 ft. Total Depth 4,643 ft.
Formation Mississippi

	<u>MUD PIT</u>	<u>RECOVERY</u>
Viscosity	<u>51</u> CP	<u>60</u> CP
Weight	<u>9.1</u>	<u>9.1</u>
Water Loss	<u>10.0</u> CC	<u>10.0</u> CC
PH Factor	<u>9.0</u>	<u>9.5</u>

	<u>RESISTIVITY</u>	<u>CHLORIDE CONTENT</u>
Recovery Water	<u>--</u> @ <u>--</u> °F.	<u>--</u> ppm
Recovery Mud	<u>.76</u> @ <u>78</u> °F.	<u>7,900</u> ppm
Recovery Mud Filtrate	<u>.72</u> @ <u>80</u> °F.	<u>7,400</u> ppm
Mud Pit Sample	<u>.96</u> @ <u>64</u> °F.	<u>7,200</u> ppm
Mud Pit Sample Filtrate	<u>1.00</u> @ <u>66</u> °F.	<u>6,400</u> ppm

Sample Taken By ROGER D. FRIEDLY
Witness By Kent Crisler
Remarks Pit filtrate triton dish chlorides were 5,800 Ppm
Recovery filtrate triton dish chlorides were 6,300 Ppm

NURSE #1-6
 Formation: DST #3 MISS. 4,614' - 4,643'
 Pool: UNKNOWN

MULL DRILLING COMPANY, INC.
 DST #3 MISS. 4,614' - 4,643'
 Start Test Date: 2004/09/16
 Final Test Date: 2004/09/16

NURSE #1-6

