



DIAMOND TESTING

P.O. Box 157

HOISINGTON, KANSAS 67544

(620) 653-7550 • (800) 542-7313

ORIGINAL

Page 1 of 2 Pages

CONFIDENTIAL

Company Mull Drilling Co., Inc. Lease & Well No. E. Joe "A" No. 2-10

Elevation 2685 KB Formation Pawnee Effective Pay -- Ft. Ticket No. 1641

Date 6-19-02 Sec. 10 Twp. 17S Range 27W County Lane State Kansas

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

Formation Test No. 1 Interval Tested from 4,418 ft. to 4,440 ft. Total Depth 4,440 ft.

Packer Depth 4,413 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 4,418 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 4,406 ft. Recorder Number Elec. Cap. 5,000 psi

Bottom Recorder Depth (Outside) 4,437 ft. Recorder Number 13387 Cap. 4,000 psi

Below Straddle Recorder Depth ft. Recorder Number Cap. psi

Drilling Contractor L. D. Drilling, Inc. - Rig 1 Drill Collar Length -- ft. I.D. -- in.

Mud Type Chemical Viscosity 44 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.5 Water Loss 10.4 cc. Drill Pipe Length 4,392 ft. I.D. 3 1/2 in.

Chlorides 2,200 P.P.M. Test Tool Length 26 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number Not Run Anchor Length 22 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 1/2 in. No blow back during shut-in.

2nd Open: No blow. No blow back during shut-in.

Recovered 5 ft. of drilling mud with a few oil specks in tool = .051300 bbls.

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks

KCC

JUL 25 2002

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Time Set Packer(s) 8:06 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 10:06 ~~P.M.~~ ^{A.M.} Maximum Temperature 120°

Initial Hydrostatic Pressure (A) 2156 P.S.I.

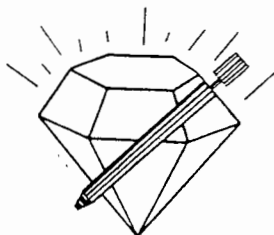
Initial Flow Period Minutes 15 (B) 8 P.S.I. to (C) 10 P.S.I.

Initial Closed In Period Minutes 45 (D) 92 P.S.I.

Final Flow Period Minutes 30 (E) 18 P.S.I. to (F) 19 P.S.I.

Final Closed In Period Minutes 30 (G) 22 P.S.I.

Final Hydrostatic Pressure (H) 2144 P.S.I.



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Page 2 of 2 Pages

FLUID SAMPLE DATA

Company Mull Drilling Co., Inc.
Lease & Well No. E. Joe "A" No. 2-10
Date 6-19-02 Sec. 10 Twp. 17 S Range 27 W
Formation Test No. 1 Interval Tested From 4,418 ft. to 4,440 ft. Total Depth 4,440 ft.
Formation Pawnee

	MUD PIT	RECOVERY
Viscosity	<u>44</u> CP	<u>50</u> CP
Weight	<u>9.5</u>	<u>9.4</u>
Water Loss	<u>10.4</u> CC	<u>10.0</u> CC
PH Factor	<u>12.0</u>	<u>11.5</u>

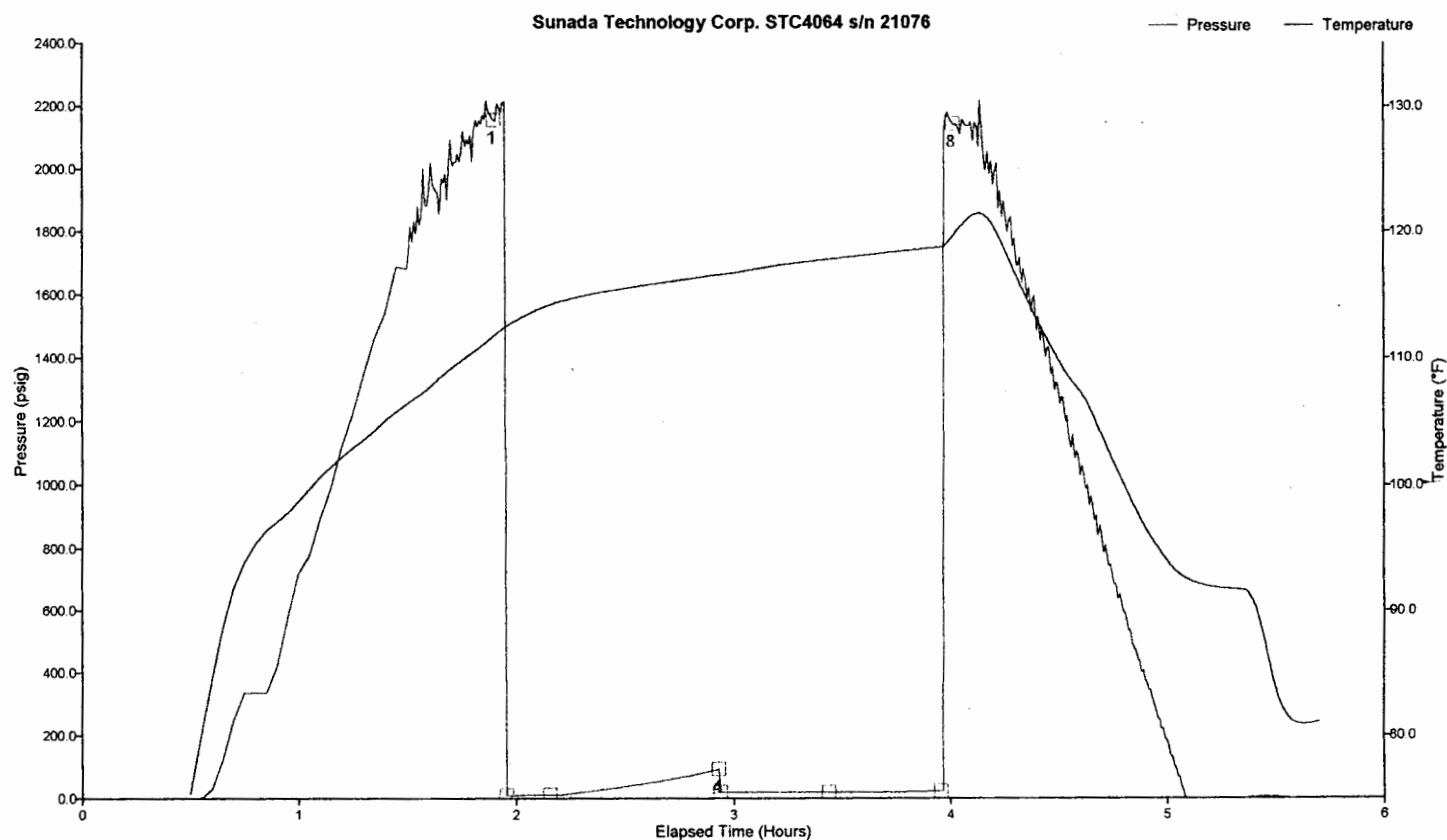
	RESISTIVITY	CHLORIDE CONTENT
Recovery Water	<u>--</u> @ <u>--</u> °F.	<u>--</u> ppm
Recovery Mud	<u>.96</u> @ <u>84</u> °F.	<u>5,300</u> ppm
Recovery Mud Filtrate	<u>1.20</u> @ <u>86</u> °F.	<u>4,100</u> ppm
Mud Pit Sample	<u>.96</u> @ <u>80</u> °F.	<u>5,700</u> ppm
Mud Pit Sample Filtrate	<u>1.10</u> @ <u>82</u> °F.	<u>4,700</u> ppm

Sample Taken By ROGER D. FRIEDLY

Witness By Kim B. Shoemaker

Remarks Pit filtrate triton dish chlorides were 2,200 Ppm
Recovery filtrate triton dish chlorides were 2,000 Ppm

Well LSD: DST #1 PAWNEE 4418'-4440'
Well Name: E JOE A 2
Company: MULL DRILLING CO INC
Battery on: Jun 19, 2002 at 06:10:00
Notes: RECOVERED 5' DM WITH A FEW OIL SPECKS IN TOOL.

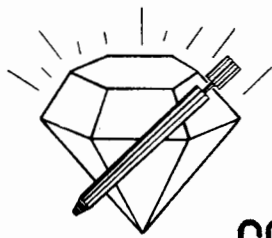


Tag	Pressure	Temperature	Comment
1	2155.97 psig	111.75 °F	2002-06-19 08:04:00
2	8.02 psig	112.53 °F	2002-06-19 08:07:30
3	10.09 psig	114.20 °F	2002-06-19 08:19:30
4	92.08 psig	116.57 °F	2002-06-19 09:06:00
5	18.13 psig	116.59 °F	2002-06-19 09:06:30
6	18.58 psig	117.79 °F	2002-06-19 09:36:30
7	22.34 psig	118.77 °F	2002-06-19 10:07:30
8	2143.83 psig	119.67 °F	2002-06-19 10:11:00

DST #1 Outside 13387
Clock 13392 Pawnee

4418-4440
Loc 4437





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Page 1 of 2 Pages

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Company Mull Drilling Co., Inc. Lease & Well No. E. Joe "A" No. 2-10

Elevation 2685 KB Formation Cherokee Sand Effective Pay -- Ft. Ticket No. 1642

Date 6-20-02 Sec. 10 Twp. 17S Range 27W County Lane State Kansas

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

Formation Test No. 2 Interval Tested from 4,547 ft. to 4,568 ft. Total Depth 4,568 ft.

Packer Depth 4,542 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 4,547 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 4,535 ft. Recorder Number Elec. Cap. 5,000 psi

Bottom Recorder Depth (Outside) 4,565 ft. Recorder Number 13387 Cap. 4,000 psi

Below Straddle Recorder Depth ft. Recorder Number Cap. psi

Drilling Contractor L. D. Drilling, Inc. - Rig 1 Drill Collar Length -- ft. I.D. -- in.

Mud Type Chemical Viscosity 41 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.5 Water Loss 10.4 cc. Drill Pipe Length 4,521 ft. I.D. 3 1/2 in.

Chlorides 2,100 P.P.M. Test Tool Length 26 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number Not Run Anchor Length 21 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 4 1/2 ins. Very weak surface blow back during shut-in.

2nd Open: Weak, surface blow in 6 mins. increasing to 10 1/2 ins. No blow back during shut-in.

Recovered 4 ft. of clean oil = .041040 bbls. (Gravity: 36 @ 60°)

Recovered 25 ft. of slightly oil cut muddy water = .256500 bbls. (Grind out: 2%-oil; 38%-mud; 60%-water)

Recovered 186 ft. of salt water with traces of oil throughout = 1.908360 bbls.

Recovered 215 ft. of TOTAL FLUID = 2.205900 bbls.

Recovered ft. of

Remarks Tool Sample Grind Out: 1%-oil; 4%-mud; 95%-water

KCC

JUL 25 2002

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Time Set Packer(s) 5:10 ~~P.M.~~ A.M. Time Started Off Bottom 9:10 ~~P.M.~~ A.M. Maximum Temperature 133°

Initial Hydrostatic Pressure (A) 2222 P.S.I.

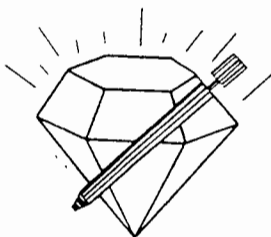
Initial Flow Period Minutes 15 (B) 10 P.S.I. to (C) 30 P.S.I.

Initial Closed In Period Minutes 45 (D) 1142 P.S.I.

Final Flow Period Minutes 60 (E) 33 P.S.I. to (F) 102 P.S.I.

Final Closed In Period Minutes 120 (G) 1140 P.S.I.

Final Hydrostatic Pressure (H) 2194 P.S.I.



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Page 2 of 2 Pages

FLUID SAMPLE DATA

Company Mull Drilling Co., Inc.

Lease & Well No. E. Joe "A" No. 2-10

Date 6-20-02 Sec. 10 Twp. 17 S Range 27 W

Formation Test No. 2 Interval Tested From 4,547 ft. to 4,568 ft. Total Depth 4,568 ft.

Formation Cherokee Sand

8:50 a.m.

MUD PIT

RECOVERY

Viscosity 41 CP -- CP

Weight 9.5 --

Water Loss 10.4 CC -- CC

PH Factor 11.0 -- Water 6.5

RESISTIVITY

CHLORIDE
CONTENT

Recovery Water .31 @ 76 °F. 19,000 ppm

Recovery Mud -- @ -- °F. -- ppm

Recovery Mud Filtrate -- @ -- °F. -- ppm

Mud Pit Sample 1.20 @ 74 °F. 5,200 ppm

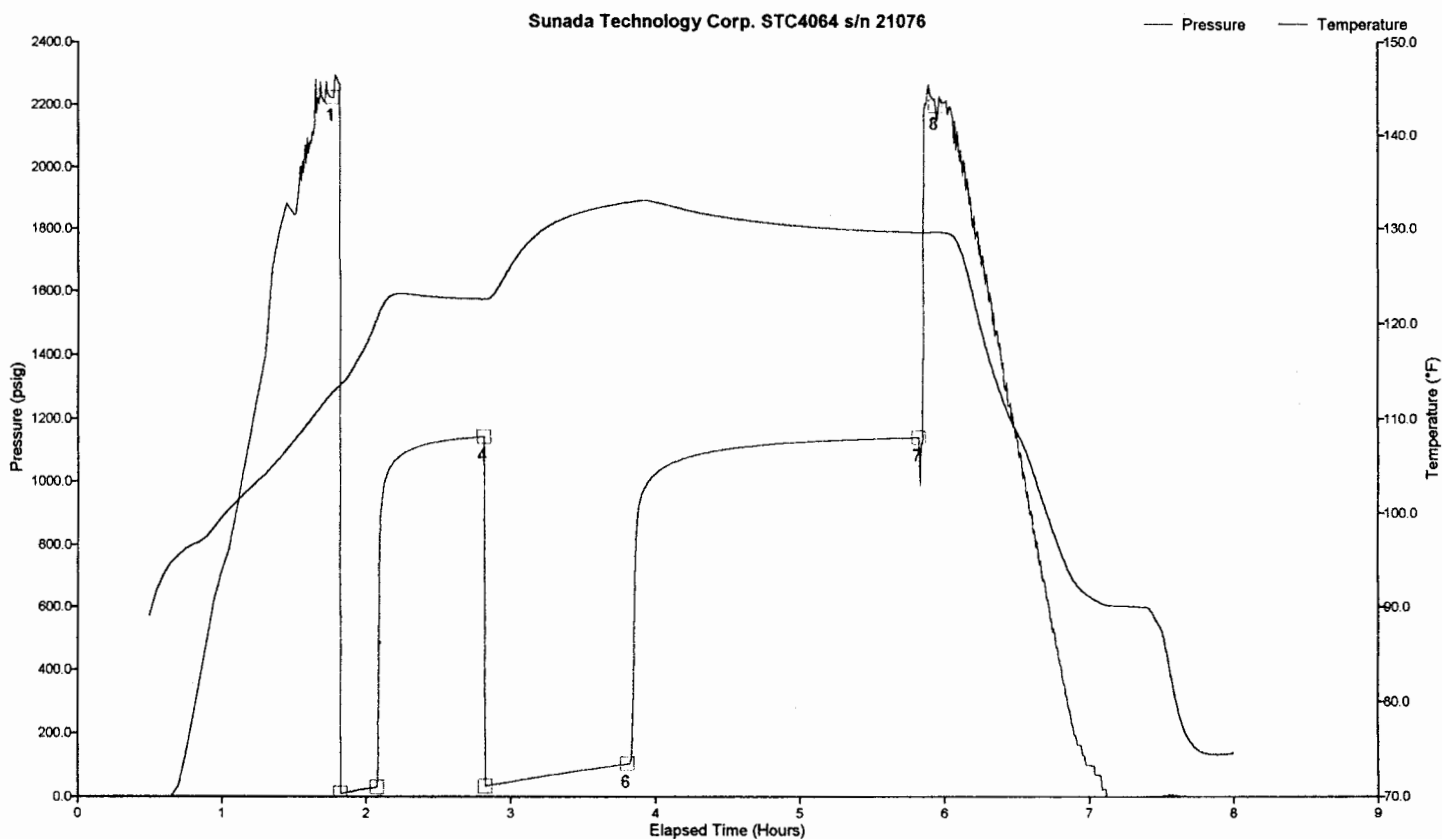
Mud Pit Sample Filtrate 1.30 @ 76 °F. 4,300 ppm

Sample Taken By ROGER D. FRIEDLY

Witness By Kim B. Shoemaker

Remarks Pit filtrate triton dish chlorides were 2,100 Ppm
Recovery water dish chlorides were 16,000 Ppm

Well LSD: ' DST #2 CHER. SAND 4547'-4568'
 Well Name: E JOE A 2-10 DST 2
 Company: MULL DRILLING CO INC
 Battery on: Jun 20, 2002 at 03:21:00
 Notes: RECOVERED 4' CO, 25' SOCM, 186' SW WITH TRACE OF OIL T/O.



Tag	Pressure	Temperature	Comment
1	2222.45 psig	112.72 °F	2002-06-20 05:07:00
2	10.38 psig	113.59 °F	2002-06-20 05:10:30
3	29.62 psig	120.49 °F	2002-06-20 05:25:30
4	1142.10 psig	122.52 °F	2002-06-20 06:10:00
5	32.74 psig	122.50 °F	2002-06-20 06:10:30
6	102.12 psig	132.86 °F	2002-06-20 07:09:30
7	1140.15 psig	129.57 °F	2002-06-20 09:10:30
8	2193.86 psig	129.63 °F	2002-06-20 09:17:30

DST # 2 Outside 13387 4547-4568
CLOCK 13392 Cher. Sand LOC 4565

