



DIAMOND TESTING

P.O. Box 157

HOISINGTON, KANSAS 67544

(620) 653-7550 • (800) 542-7313

ORIGINAL

Page 1 of 2 Pages

Company Davis Petroleum, Inc. Lease & Well No. Lehner No. 2
 Elevation 2261 KB Formation Fort Scott Effective Pay Ft. Ticket No. J1305
 Date 11-19-02 Sec. 36 Twp. 18S Range 24W County Ness State Kansas
 Test Approved By Kim B. Shoemaker Diamond Representative John C. Riedl

Formation Test No. 1 Interval Tested from 4,164 ft. to 4,200 ft. Total Depth 4,200 ft.

Packer Depth 4,159 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 4,164 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 4,167 ft. Recorder Number Elec. Cap. 5,000 psi

Bottom Recorder Depth (Outside) 4,197 ft. Recorder Number 13556 Cap. 5,475 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 48 Weight Pipe Length ft. I.D. in.

Weight 9.1 Water Loss 12.8 cc. Drill Pipe Length 4,144 ft. I.D. 3 1/2 in.

Chlorides 3,000 P.P.M. Test Tool Length 20 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number Not Run Anchor Length 36 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 blow slowly building to 3 ins.

2nd Open: Weak, 1 in., blow.

Recovered 1 ft. of free oil = .010260 bbls.

Recovered 64 ft. of watery mud = .656640 bbls. (Grind out: 10%-water; 90%-mud)

Recovered 65 ft. of TOTAL FLUID = .666900 bbls.

Recovered ft. of

Recovered ft. of

Remarks

Time Set Packer(s) 11:27 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 1:42 ~~P.M.~~ ^{A.M.} Maximum Temperature 109°

Initial Hydrostatic Pressure (A) 1998 P.S.I.

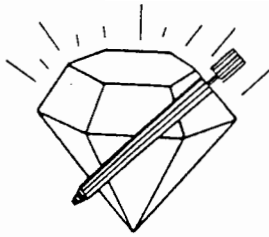
Initial Flow Period Minutes 30 (B) 12 P.S.I. to (C) 29 P.S.I.

Initial Closed In Period Minutes 30 (D) 1021 P.S.I.

Final Flow Period Minutes 30 (E) 30 P.S.I. to (F) 42 P.S.I.

Final Closed In Period Minutes 45 (G) 1021 P.S.I.

Final Hydrostatic Pressure (H) 1971 P.S.I.



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FLUID SAMPLE DATA

Company Davis Petroleum, Inc.

Lease & Well No. Lehner No. 2

Date 11-19-02 Sec. 36 Twp. 18 S Range 24 W

Formation Test No. 1 Interval Tested From 4,164 ft. to 4,200 ft. Total Depth 4,200 ft.

Formation Fort Scott

	<u>MUD PIT</u>	<u>RECOVERY</u>
Viscosity	<u>48</u> CP	<u>42</u> CP
Weight	<u>9.1</u>	<u>9.0</u>
Water Loss	<u>12.8</u> CC	<u>18.0</u> CC
PH Factor	<u>10.0</u>	<u>9.5</u>

	<u>RESISTIVITY</u>	<u>CHLORIDE CONTENT</u>
Recovery Water	<u>1.60</u> @ <u>60°F.</u>	<u>4,900</u> ppm
Recovery Mud	<u>1.60</u> @ <u>65°F.</u>	<u>4,200</u> ppm
Recovery Mud Filtrate	<u>1.50</u> @ <u>65°F.</u>	<u>4,300</u> ppm
Mud Pit Sample	<u>1.90</u> @ <u>70°F.</u>	<u>3,100</u> ppm
Mud Pit Sample Filtrate	<u>1.80</u> @ <u>70°F.</u>	<u>3,300</u> ppm

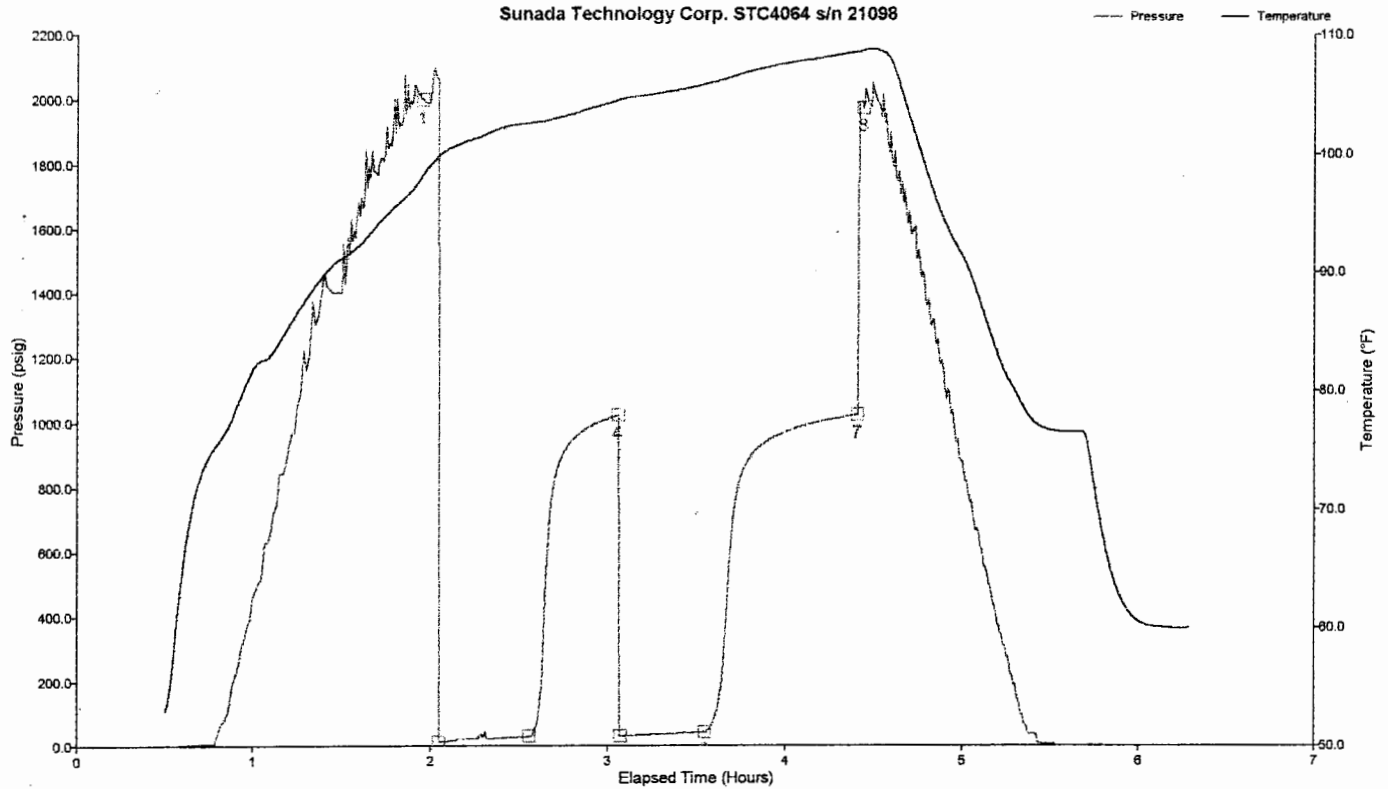
Sample Taken By JOHN C. RIEDL

Witness By Kim B. Shoemaker

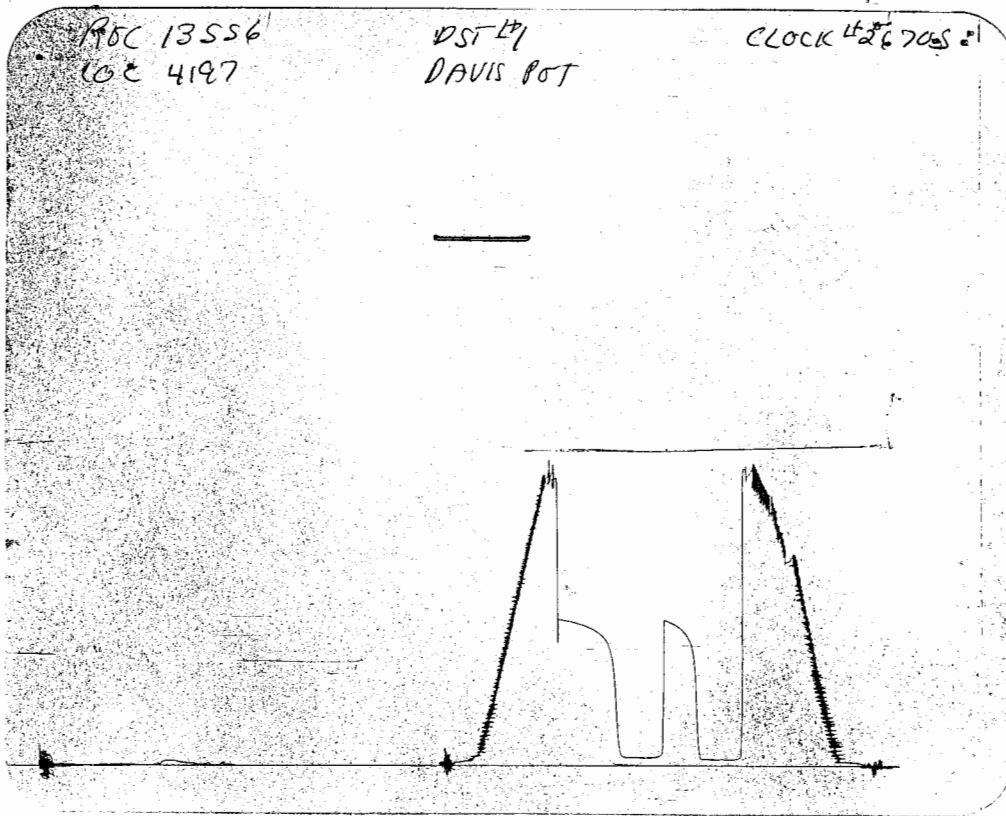
Remarks Pit filtrate triton dish chlorides were 3,000 Ppm.
Recovery filtrate triton dish chlorides were 4,500 Ppm.
Recovery water dish chlorides were 5,000 Ppm.

Well LSD: DST 1 FORT SCOTT 4164-4200
 Well Name: LEHNER 2
 Company: DAVIS PETROLEUM INC
 Battery on: Nov 18, 2002 at 21:25:00
 Notes: REC. 1' FREE OIL 64' WATERY MUD

ORIGINAL



Tag	Pressure	Temperature	Comment
1	1997.76 psig	98.28 °F	2002-11-18 23:22:30
2	12.15 psig	99.90 °F	2002-11-18 23:28:00
3	28.72 psig	102.59 °F	2002-11-18 23:58:30
4	1021.16 psig	104.55 °F	2002-11-19 00:28:30
5	30.00 psig	104.62 °F	2002-11-19 00:29:30
6	41.86 psig	105.87 °F	2002-11-19 00:58:00
7	1021.43 psig	108.54 °F	2002-11-19 01:49:30
8	1970.65 psig	108.66 °F	2002-11-19 01:51:30



This is an actual photograph of recorder chart.

POINT	PRESSURE		Elec. Office Reading	PSI
	Field Reading			
(A) Initial Hydrostatic Mud	1998	1998	1998	PSI
(B) First Initial Flow Pressure.....	12	12	12	PSI
(C) First Final Flow Pressure	29	29	29	PSI
(D) Initial Closed-in Pressure	1021	1021	1021	PSI
(E) Second Initial Flow Pressure	30	30	30	PSI
(F) Second Final Flow Pressure.....	42	42	42	PSI
(G) Final Closed-in Pressure.....	1021	1021	1021	PSI
(H) Final Hydrostatic Mud	1971	1971	1971	PSI



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INVA

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Company Davis Petroleum, Inc. Lease & Well No. Lehner No. 2
 Elevation 2261 KB Formation Mississippi Effective Pay Ft. Ticket No. J1306
 Date 11-19-02 Sec. 36 Twp. 18S Range 24W County Ness State Kansas
 Test Approved By Kim B. Shoemaker Diamond Representative John C. Riedl

Formation Test No. 2 Interval Tested from 4,234 ft. to 4,268 ft. Total Depth 4,268 ft.

Packer Depth 4,229 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 4,234 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 4,237 ft. Recorder Number Elec. Cap. 5,000 psi

Bottom Recorder Depth (Outside) 4,265 ft. Recorder Number 13556 Cap. 5,475 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 50 Weight Pipe Length ft. I.D. in.

Weight 9.4 Water Loss 8.0 cc. Drill Pipe Length 4,214 ft. I.D. 3 1/2 in.

Chlorides 4,600 P.P.M. Test Tool Length 20 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number Not Run Anchor Length 34 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 blow. Dead in 14 mins.

2nd Open: No blow.

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

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks

Time Set Packer(s) <u>3:25</u> A.M. ^{P.M.}	Time Started Off Bottom <u>5:25</u> A.M. ^{P.M.}	Maximum Temperature <u>106°</u>
Initial Hydrostatic Pressure <u>2059</u> P.S.I.	(A) <u>30</u> Minutes	(B) <u>12</u> P.S.I. to (C) <u>13</u> P.S.I.
Initial Flow Period <u>30</u> Minutes	(D) <u>38</u> P.S.I.	(E) <u>14</u> P.S.I. to (F) <u>15</u> P.S.I.
Initial Closed In Period <u>30</u> Minutes	(G) <u>29</u> P.S.I.	(H) <u>2013</u> P.S.I.
Final Flow Period <u>30</u> Minutes		
Final Closed In Period <u>30</u> Minutes		
Final Hydrostatic Pressure <u>2013</u> P.S.I.		



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FLUID SAMPLE DATA

Company Davis Petroleum, Inc.
Lease & Well No. Lehner No. 2
Date 11-19-02 Sec. 36 Twp. 18 S Range 24 W
Formation Test No. 2 Interval Tested From 4,234 ft. to 4,268 ft. Total Depth 4,268 ft.
Formation Mississippi

	<u>MUD PIT</u>	<u>RECOVERY</u>
Viscosity	<u>50</u> CP	<u>52</u> CP
Weight	<u>9.4</u>	<u>9.3</u>
Water Loss	<u>8.0</u> CC	<u>7.0</u> CC
PH Factor	<u>9.5</u>	<u>10.0</u>

	<u>RESISTIVITY</u>	<u>CHLORIDE CONTENT</u>
Recovery Water	<u>--</u> @ <u>--</u> °F.	<u>--</u> ppm
Recovery Mud	<u>1.50</u> @ <u>65</u> °F.	<u>4,600</u> ppm
Recovery Mud Filtrate	<u>1.40</u> @ <u>65</u> °F.	<u>4,800</u> ppm
Mud Pit Sample	<u>1.30</u> @ <u>70</u> °F.	<u>4,500</u> ppm
Mud Pit Sample Filtrate	<u>1.20</u> @ <u>70</u> °F.	<u>4,700</u> ppm

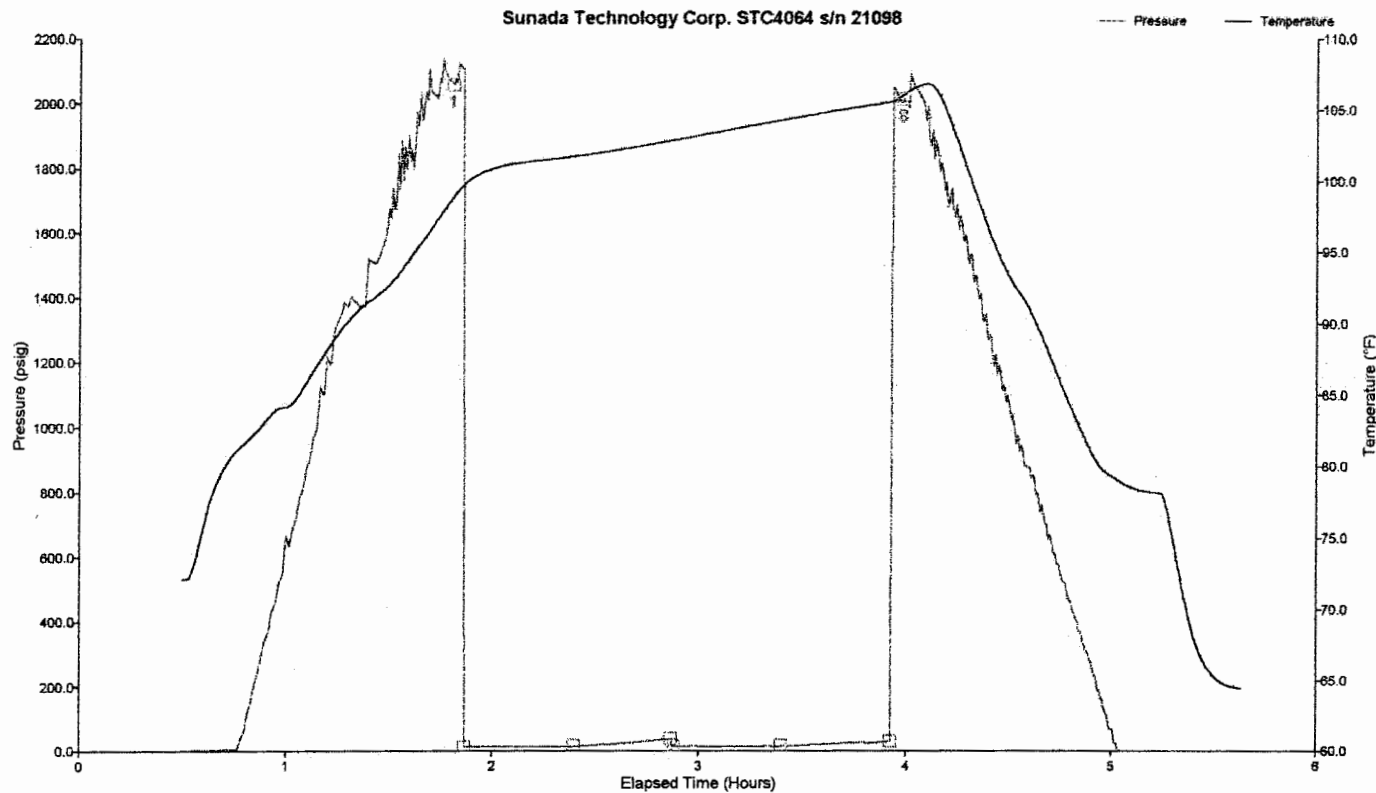
Sample Taken By JOHN C. RIEDL

Witness By Kim B. Shoemaker

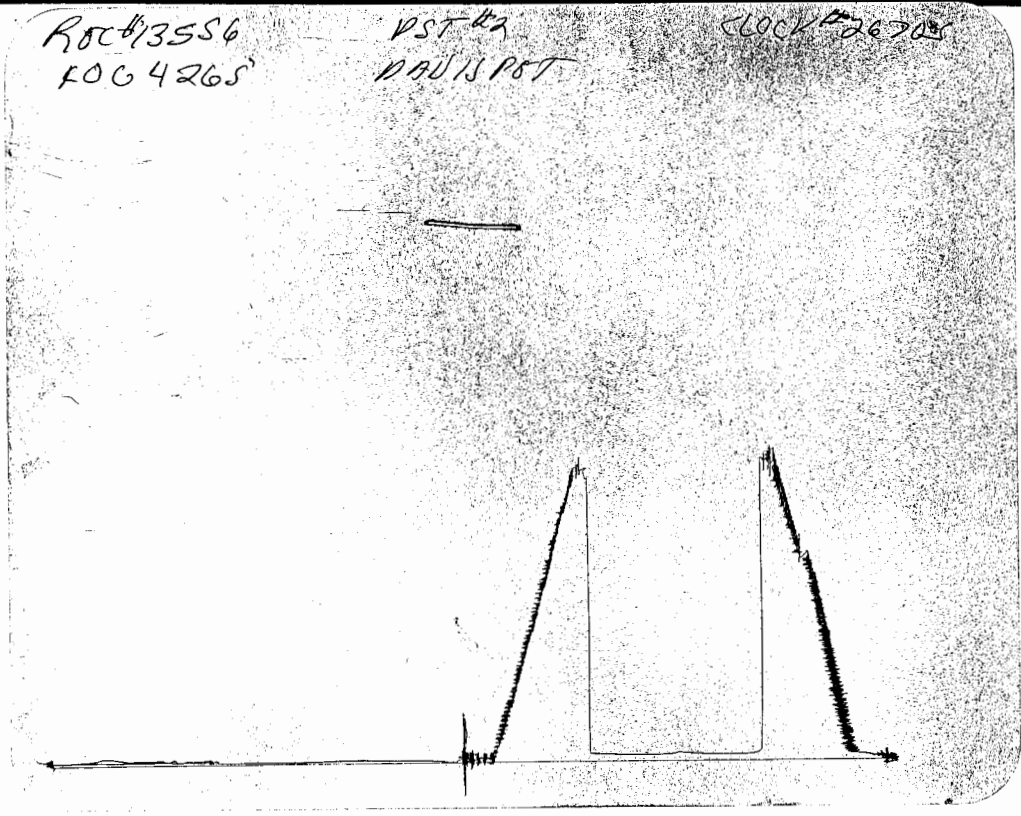
Remarks Pit filtrate triton dish chlorides were 4,600 Ppm.
Recovery filtrate triton dish chlorides were 4,500 Ppm.

Well LSD: DST 2 MISS 4234-4268
 Well Name: LEHNER 2
 Company: DAVIS PETROLEUM INC
 Battery on: Nov 19, 2002 at 13:30:00
 Notes: RECOVERY 5' DRILLING MUD OIL SHOW IN TOOL

ORIGINAL



Tag	Pressure	Temperature	Comment
1	2058.72 psig	98.87 °F	2002-11-19 15:18:30
2	12.09 psig	99.83 °F	2002-11-19 15:22:00
3	13.27 psig	101.75 °F	2002-11-19 15:54:00
4	37.65 psig	102.87 °F	2002-11-19 16:22:00
5	13.74 psig	102.91 °F	2002-11-19 16:23:00
6	15.29 psig	104.32 °F	2002-11-19 16:54:00
7	29.44 psig	105.61 °F	2002-11-19 17:25:30
8	2013.41 psig	106.11 °F	2002-11-19 17:29:00



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Elec. Office Reading	
(A) Initial Hydrostatic Mud	2059	2059	PSI
(B) First Initial Flow Pressure.....	12	12	PSI
(C) First Final Flow Pressure	13	13	PSI
(D) Initial Closed-in Pressure	38	38	PSI
(E) Second Initial Flow Pressure	14	14	PSI
(F) Second Final Flow Pressure.....	15	15	PSI
(G) Final Closed-in Pressure.....	29	29	PSI
(H) Final Hydrostatic Mud	2013	2013	PSI



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ORIGINAL

Company Davis Petroleum, inc. Lease & Well No. Lehner No. 2
 Elevation 2261 KB Formation Mississippi Effective Pay 5 Ft. Ticket No. J1307
 Date 11-20-02 Sec. 36 Twp. 18S Range 24W County Ness State Kansas
 Test Approved By Kim B. Shoemaker Diamond Representative John C. Riedl

Formation Test No. 3 Interval Tested from 4,266 ft. to 4,277 ft. Total Depth 4,277 ft.
 Packer Depth 4,261 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.
 Packer Depth 4,266 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.
 Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 4,269 ft. Recorder Number Elec. Cap. 5,000 psi
 Bottom Recorder Depth (Outside) 4,274 ft. Recorder Number 13556 Cap. 5,475 psi
 Below Straddle Recorder Depth ft. Recorder Number Cap. psi

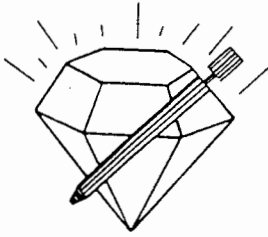
Drilling Contractor L. D. Drilling, Inc. - Rig 1 Drill Collar Length -- ft. I.D. -- in.
 Mud Type Chemical Viscosity 51 Weight Pipe Length -- ft. I.D. -- in.
 Weight 9.4 Water Loss 8.0 cc. Drill Pipe Length 4,246 ft. I.D. 3 1/2 in.
 Chlorides 4,500 P.P.M. Test Tool Length 20 ft. Tool Size 3 1/2 - IF in.
 Jars: Make Bowen Serial Number Not Run Anchor Length 11 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: Strong blow. Off bottom of bucket in 15 mins. Weak blow back during shut-in.
 2nd Open: Strong blow. Built to 9 ins. by end. Weak blow back during shut-in.

Recovered 230 ft. of clean gassy oil = 2.359800 bbls. (Grind out: 10%-gas; 90%-oil) Gravity: 36 @ 60°
 Recovered 60 ft. of water & mud cut gassy oil = .615600 bbls. (Grind out: 15%-water; 15%-mud; 10%-gas; 60%-oil)
 Recovered 40 ft. of oil & gas cut muddy water = .410400 bbls. (Grind out: 15%-oil; 10%-gas; 30%-mud; 45%-water)
 Recovered 330 ft. of TOTAL FLUID = 3.385800 bbls. Chlorides: 18,000 Ppm
 Recovered ft. of

Remarks

Time Set Packer(s) 1:55 ^{A.M.}/_{P.M.} Time Started Off Bottom 4:55 ^{A.M.}/_{P.M.} Maximum Temperature 121°
 Initial Hydrostatic Pressure (A) 2069 P.S.I.
 Initial Flow Period Minutes 30 (B) 17 P.S.I. to (C) 82 P.S.I.
 Initial Closed In Period Minutes 45 (D) 1185 P.S.I.
 Final Flow Period Minutes 45 (E) 86 P.S.I. to (F) 141 P.S.I.
 Final Closed In Period Minutes 60 (G) 1167 P.S.I.
 Final Hydrostatic Pressure (H) 2036 P.S.I.



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FLUID SAMPLE DATA

Company Davis Petroleum, Inc.
Lease & Well No. Lehner No. 2
Date 11-20-02 Sec. 36 Twp. 18 S Range 24 W
Formation Test No. 3 Interval Tested From 4,266 ft. to 4,277 ft. Total Depth 4,277 ft.
Formation Mississippi

	<u>MUD PIT</u>	<u>RECOVERY</u>
Viscosity	<u>51</u> CP	<u>--</u> CP
Weight	<u>9.4</u>	<u>--</u>
Water Loss	<u>8.0</u> CC	<u>--</u> CC
PH Factor	<u>9.5</u>	<u>--</u>

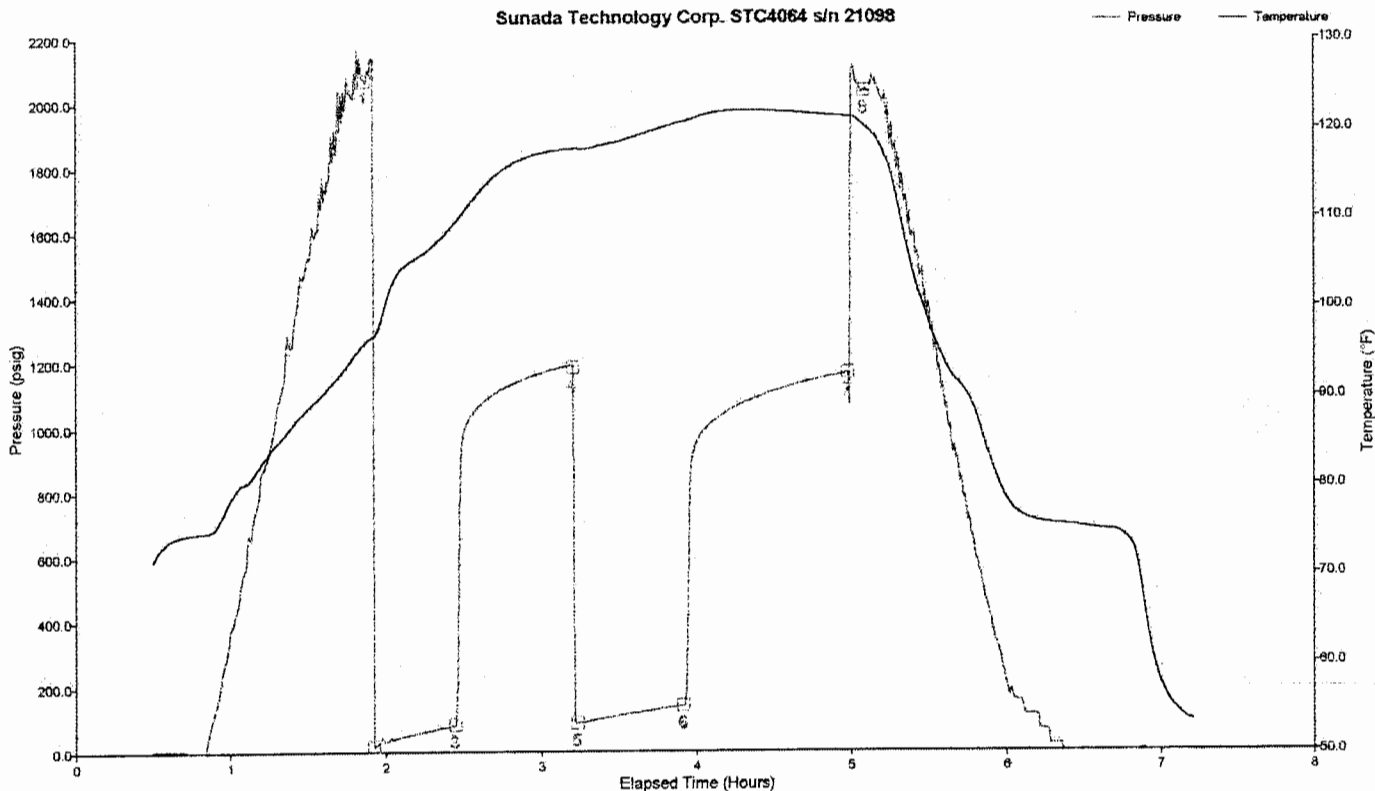
	RESISTIVITY	CHLORIDE CONTENT
Recovery Water	<u>.40</u> @ <u>65</u> °F.	<u>18,000</u> ppm
Recovery Mud	<u>1.60</u> @ <u>60</u> °F.	<u>4,900</u> ppm
Recovery Mud Filtrate	<u>.82</u> @ <u>60</u> °F.	<u>8,000</u> ppm
Mud Pit Sample	<u>1.60</u> @ <u>60</u> °F.	<u>4,900</u> ppm
Mud Pit Sample Filtrate	<u>1.60</u> @ <u>60</u> °F.	<u>4,900</u> ppm

Sample Taken By JOHN C. RIEDL

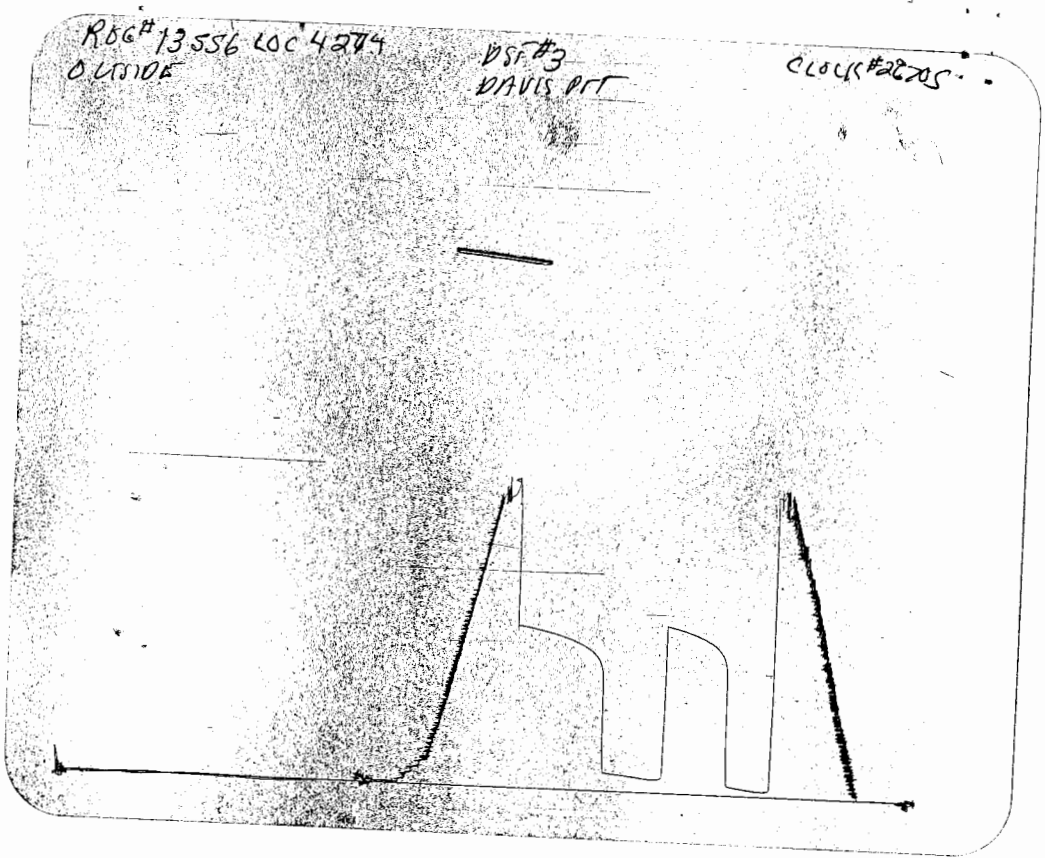
Witness By Kim B. Shoemaker

Remarks Pit filtrate triton dish chlorides were 4,500 Ppm.
Recovery filtrate triton dish chlorides were 5,000 Ppm.
Recovery water dish chlorides were 17,000 Ppm.

Well LSD: DST 3 MISS 4266-4277
 Well Name: LEHNER 2
 Company: DAVIS PETROLEUM INC
 Battery on: Nov 20, 2002 at 00:01:00
 Notes: REC. 230' CLEAN GASSY OIL 60'W+MCGO 40'O+GCMW



Tag	Pressure	Temperature	Comment
1	2069.38 psig	95.91 °F	2002-11-20 01:53:00
2	16.77 psig	96.71 °F	2002-11-20 01:56:30
3	82.16 psig	109.46 °F	2002-11-20 02:28:00
4	1185.18 psig	117.62 °F	2002-11-20 03:13:30
5	86.48 psig	117.62 °F	2002-11-20 03:15:00
6	141.19 psig	120.64 °F	2002-11-20 03:56:00
7	1167.18 psig	121.16 °F	2002-11-20 05:00:00
8	2035.73 psig	120.12 °F	2002-11-20 05:06:00



This is an actual photograph of recorder chart.

POINT	PRESSURE		Elec. Office Reading	PSI
	Field Reading			
(A) Initial Hydrostatic Mud	2069	2069	2069	PSI
(B) First Initial Flow Pressure.....	17	17	17	PSI
(C) First Final Flow Pressure	82	82	82	PSI
(D) Initial Closed-in Pressure	1185	1185	1185	PSI
(E) Second Initial Flow Pressure.....	86	86	86	PSI
(F) Second Final Flow Pressure.....	141	141	141	PSI
(G) Final Closed-in Pressure.....	1167	1167	1167	PSI
(H) Final Hydrostatic Mud.....	2036	2036	2036	PSI