

Computer Inventoried



CONFIDENTIAL

DIAMOND TESTING

P. O. Box 157

HOISINGTON, KANSAS 67544

(316) 653-7550

ORIGINAL
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15-165-21705

Page 1 of 2 Pages

Company Cross Bar Petroleum, Inc./L. D. Drilling, Inc. Lease & Well No. Austermiller No. 1-28

Elevation 2084 KB Formation Arbuckle Effective Pay --- Ft. Ticket No. 1242

Date 10-31-96 Sec. 28 Twp. 19S Range 16W County Rush State Kansas

Test Approved By Steve Davis Diamond Representative Roger D. Friedly

Formation Test No. 1 Interval Tested from 3,786 ft. to 3,795 ft. Total Depth 3,795 ft.

Packer Depth 3,781 ft. Size 6 3/4 in. Packer Depth --- ft. Size --- in.

Packer Depth 3,786 ft. Size 6 3/4 in. Packer Depth --- ft. Size --- in.

Depth of Selective Zone Set --- ft.

Top Recorder Depth (Inside) 3,768 ft. Recorder Number 13386 Cap. 3,875 psi

Bottom Recorder Depth (Outside) 3,792 ft. Recorder Number 13556 Cap. 4,400 psi

Below Straddle Recorder Depth --- ft. Recorder Number --- Cap. --- psi

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

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

Weight 9.3 Water Loss 8.8 cc. Drill Pipe Length 3,755 ft. I.D. 3 1/4 in.

Chlorides 4,000 P.P.M. Test Tool Length 31 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number 1 Anchor Length 9 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: Lost 20' - 30' drilling mud. Weak, 1/8 in., blow. Died in 15 mins.

2nd Open: Weak, surface blow. Died in 5 mins. Flushed tool. Surged. Blow died in 5 mins.

Recovered 93 ft. of drilling mud = .95418 bbls.Recovered --- ft. of ---Recovered --- ft. of ---Recovered --- ft. of ---Recovered --- ft. of ---Remarks ---

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SEP 25 1998

FEB 2 0

FROM CONFIDENTIAL

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Time Set Packer(s) 10:05 ~~XXM.~~ P.M. Time Started Off Bottom 11:25 ~~XXM.~~ P.M. Maximum Temperature 112°

Initial Hydrostatic Pressure (A) 1868 P.S.I.

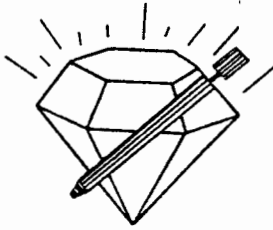
Initial Flow Period Minutes 30 (B) 67 P.S.I. to (C) 56 P.S.I.

Initial Closed In Period Minutes 30 (D) Invalid 1736 P.S.I.

Final Flow Period Minutes 20 (E) 56 P.S.I. to (F) 45 P.S.I.

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

Final Hydrostatic Pressure (H) 1846 P.S.I.



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FLUID SAMPLE DATA

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Company Cross Bar Petroleum, Inc./L. D. Drilling, Inc.
Lease & Well No. Austermiller No. 1-28
Date 10-31-96 Sec. 28 Twp. 19 S Range 16 W
Formation Test No. 1 Interval Tested From 3,786 ft. to 3,795 ft. Total Depth 3,795 ft.
Formation Arbuckle

	MUD PIT	RECOVERY
Viscosity	<u>44</u> CP	<u>62</u> CP
Weight	<u>9.3</u>	<u>9.5</u>
Water Loss	<u>8.8</u> CC	<u>8.8</u> CC
PH Factor	<u>10.5</u>	<u>9.5</u>

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	FROM CONFIDENTIAL	RESISTIVITY	CHLORIDE CONTENT
Recovery Water	--	@ -- °F.	-- ppm
Recovery Mud	<u>1.10</u>	@ <u>66</u> °F.	<u>5,700</u> ppm
Recovery Mud Filtrate	<u>1.05</u>	@ <u>72</u> °F.	<u>5,400</u> ppm
Mud Pit Sample	<u>1.10</u>	@ <u>67</u> °F.	<u>5,500</u> ppm
Mud Pit Sample Filtrate	<u>1.10</u>	@ <u>66</u> °F.	<u>5,700</u> ppm

Sample Taken By ROGER D. FRIEDLY

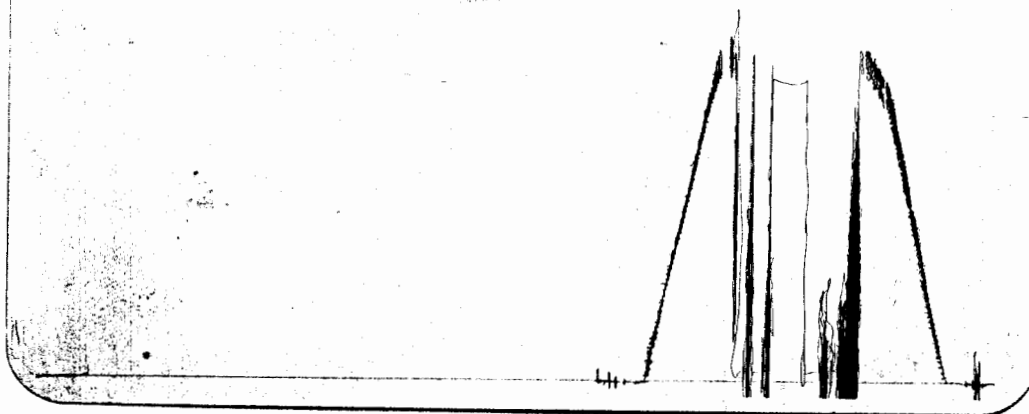
Witness By Steve Davis

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

DS#104914 13556.
 Clock 675

ARB

3786 3795
 LOC 3792



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1868	1864
(B) First Initial Flow Pressure.....	67	72
(C) First Final Flow Pressure	56	54
(D) Initial Closed-In Pressure	Invalid 1736	Invalid 1740
(E) Second Initial Flow Pressure.....	56	62
(F) Second Final Flow Pressure.....	45	49
(G) Final Closed-In Pressure.....	--	--
(H) Final Hydrostatic Mud	1846	1842

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Company Cross Bar Petroleum, Inc./L. D. Drilling, Inc. Lease & Well No. Austermiller No. 1-28
Elevation 2084 KB Formation Arbuckle Effective Pay -- Ft. Ticket No. 1243
Date 11-1-96 Sec. 28 Twp. 19S Range 16W County Rush State Kansas
Test Approved By Steve Davis Diamond Representative Roger D. Friedly
Formation Test No. 2 Interval Tested from 3,755 ft. to 3,810 ft. Total Depth 3,810 ft.
Packer Depth 3,750 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Packer Depth 3,755 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Depth of Selective Zone Set ft.
Top Recorder Depth (Inside) 3,737 ft. Recorder Number 13386 Cap. 3,875 psi
Bottom Recorder Depth (Outside) 3,807 ft. Recorder Number 13556 Cap. 4,400 psi
Below Straddle Recorder Depth ft. Recorder Number Cap. psi
Drilling Contractor L. D. Drilling, Inc. Drill Collar Length ft. I.D. in.
Mud Type Chemical Viscosity 48 Weight Pipe Length ft. I.D. in.
Weight 9.3 Water Loss 8.8 cc. Drill Pipe Length 3,724 ft. I.D. 3 1/2 in.
Chlorides 4,000 P.P.M. Test Tool Length 31 ft. Tool Size 3 1/2 - IF in.
Jars: Make Bowen Serial Number 1 Anchor Length 24' perf. w/31' 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: Good, 3 in., blow. Off bottom of bucket in 1 1/2 mins. No blow back during shut-in.
2nd Open: Good, 3 in., blow. Off bottom of bucket in 3 mins. Weak blow back during shut-in.
Recovered 880 ft. of gas in pipe
Recovered 50 ft. of drilling mud = .513 bbls.
Recovered 62 ft. of slightly oil & gas cut mud = .63612 bbls. (Grind out: 2%-oil; 2%-gas; 96%-mud)
Recovered 62 ft. of slightly oil & gas cut mud = .63612 bbls. (Grind out: 6%-oil; 8%-gas; 86%-mud)
Recovered 62 ft. of slightly oil & gas cut mud = .63612 bbls. (Grind out: 13%-oil; 14%-gas; 73%-mud)
Recovered 236 ft. of TOTAL FLUID = 2.42136 bbls.
Remarks Tool Grind out: 4%-gas; 2%-water; 22%-oil; 72%-mud

Time Set Packer(s) 8:20 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 11:50 ~~P.M.~~ ^{A.M.} Maximum Temperature 114°
Initial Hydrostatic Pressure (A) 1857 P.S.I.
Initial Flow Period Minutes 45 (B) 78 P.S.I. to (C) 101 P.S.I.
Initial Closed In Period Minutes 60 (D) 220 P.S.I.
Final Flow Period Minutes 45 (E) 134 P.S.I. to (F) 145 P.S.I.
Final Closed In Period Minutes 60 (G) 200 P.S.I.
Final Hydrostatic Pressure (H) 1846 P.S.I.



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FLUID SAMPLE DATA

Company Cross Bar Petroleum, Inc./L. D. Drilling, Inc.

Lease & Well No. Austermiller No. 1-28

Date 11-1-96 Sec. 28 Twp. 19 S Range 16 W

Formation Test No. 2 Interval Tested From 3,755 ft. to 3,810 ft. Total Depth 3,810 ft.

Formation Arbuckle

	<u>MUD PIT</u>	<u>RECOVERY</u>
Viscosity	<u>48</u> CP	<u>50</u> CP
Weight	<u>9.3</u>	<u>9.0</u>
Water Loss	<u>8.8</u> CC	<u>8.8</u> CC
PH Factor	<u>10.5</u>	<u>11.0</u>

	<u>RESISTIVITY</u>	<u>CHLORIDE CONTENT</u>
Recovery Water	<u>--</u> @ <u>--</u> °F. <u>--</u> ppm	
Recovery Mud	<u>1.10</u> @ <u>60</u> °F. <u>6,500</u> ppm	
Recovery Mud Filtrate	<u>1.20</u> @ <u>60</u> °F. <u>5,500</u> ppm	
Mud Pit Sample	<u>1.10</u> @ <u>68</u> °F. <u>5,800</u> ppm	
Mud Pit Sample Filtrate	<u>1.10</u> @ <u>70</u> °F. <u>5,300</u> ppm	

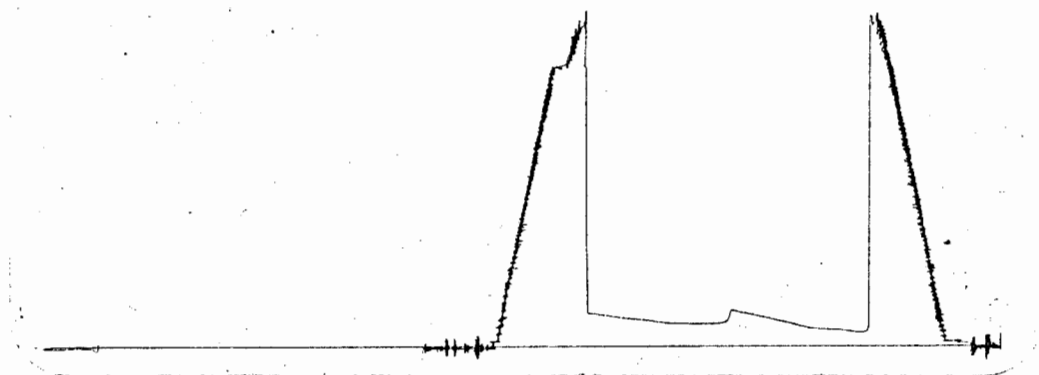
Sample Taken By ROGER D. FRIEDLY

Witness By Steve Davis

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

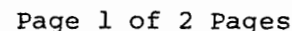
DST # 2 outside 13586
 Clock 6913 ARB

~~2255~~ 3810
 LDC 3807



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1857	1854
(B) First Initial Flow Pressure.....	78	82
(C) First Final Flow Pressure	101	101
(D) Initial Closed-in Pressure	220	222
(E) Second Initial Flow Pressure	134	138
(F) Second Final Flow Pressure.....	145	147
(G) Final Closed-in Pressure.....	200	202
(H) Final Hydrostatic Mud	1846	1842



Time Set Packer(s)	8:15	X.M. P.M.	Time Started Off Bottom	11:45	X.M. P.M.	Maximum Temperature	114°
Initial Hydrostatic Pressure			(A)	1868	P.S.I.		
Initial Flow Period	Minutes	45	(B)	45	P.S.I.	to (C)	69 P.S.I.
Initial Closed In Period	Minutes	60	(D)	961	P.S.I.		
Final Flow Period	Minutes	45	(E)	123	P.S.I.	to (F)	134 P.S.I.
Final Closed In Period	Minutes	60	(G)	916	P.S.I.		
Final Hydrostatic Pressure			(H)	1857	P.S.I.		



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FLUID SAMPLE DATA

Company Cross Bar Petroleum, Inc./L. D. Drilling, Inc.

Lease & Well No. Austermiller No. 1-28

Date 11-1-96 Sec. 28 Twp. 19 S Range 16 W

Formation Test No. 3 Interval Tested From 3,813 ft. to 3,825 ft. Total Depth 3,825 ft.

Formation Arbuckle

	<u>MUD PIT</u>	<u>RECOVERY</u>	
Viscosity	<u>46</u> CP	<u>--</u> CP	
Weight	<u>9.3</u>	<u>--</u>	
Water Loss	<u>9.2</u> CC	<u>--</u> CC	
PH Factor	<u>11.0</u>	<u>--</u>	Water <u>7.0</u>

	<u>RESISTIVITY</u>	<u>CHLORIDE CONTENT</u>
Recovery Water	<u>.28</u> @ <u>58</u> °F.	<u>30,000</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>1.30</u> @ <u>62</u> °F.	<u>5,500</u> ppm
Mud Pit Sample Filtrate	<u>1.40</u> @ <u>64</u> °F.	<u>5,000</u> ppm

Sample Taken By ROGER D. FRIEDLY

Witness By Steve Davis

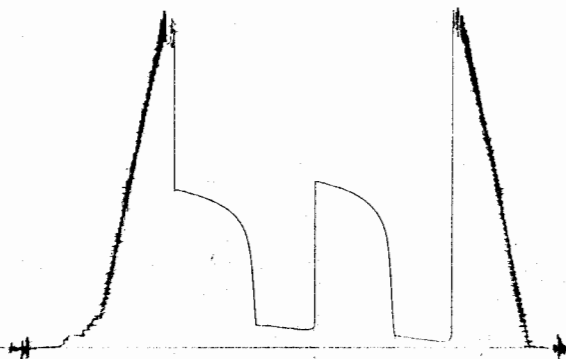
Remarks Pit filtrate triton dish chlorides were 4,000 Ppm.
Recovery water dish chlorides were 26,000 Ppm.

TEST # 3 Outside 13551
Clock 6913 ARB

382 3825
400 8822

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This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1868	1864
(B) First Initial Flow Pressure.....	45	54
(C) First Final Flow Pressure	69	69
(D) Initial Closed-In Pressure	961	963
(E) Second Initial Flow Pressure	123	130
(F) Second Final Flow Pressure.....	134	136
(G) Final Closed-In Pressure.....	916	918
(H) Final Hydrostatic Mud	1857	1847