

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

API NO. 15- 165-216910000

ORIGINAL

County RUSH

- SW - SE - NW Sec. 21 Twp. 19 S Rge. 16 X^E

Operator: License # 4243

CONFIDENTIAL

Name: Cross Bar Petroleum, Inc./
L. D. Drilling, Inc.
Address 151 N. Main, Suite 630

City/State/Zip Wichita, Kansas 67202-1407

Purchaser: To be determined

Operator Contact Person: Albert Brensing

Phone (316) 265-2279

Contractor: Name: L. D. DRILLING, INC.

License: 6039

Wellsite Geologist: Kim Shoemaker

Designate Type of Completion

X New Well Re-Entry Workover

Oil SWD SLOW Temp. Abd.
X Gas ENHR X SIGW
Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover:

Operator: RELEASED

Well Name: ---

Comp. Date Old Total Depth JUL 31 1997

Deepening Re-perf. Conv. to Inj/SWD
Plug Back PBDT
Commingled Docket No.
Dual Completion Docket No.
Other (SWD or Inj?) Docket No.

1-19-96 1-27-96 2-21-96
Spud Date Date Reached TD Completion Date

2310 Feet from SAN (circle one) Line of Section
1650 Feet from E (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, SE, (NW) or SW (circle one)

Lease Name E. SPRINGER Well # 1-21

Field Name Wildcat

Producing Formation Arbuckle

Elevation: Ground 2048' KB 2053'

Total Depth 3875' PBDT 3795'

Amount of Surface Pipe Set and Cemented at 1109' Feet

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set Feet

If Alternate II completion, cement circulated from

feet depth to w/ sx cmt.

Drilling Fluid Management Plan ALT 1 076 1-7-97
(Data must be collected from the Reserve Pit)

Chloride content 70,000 ppm Fluid volume 500 bbls

Dewatering method used Allow to dry then backfill

Location of fluid disposal if hauled offsite:

Operator Name KCC

Lease Name License No.

Quarter Sec. Twp. MAY 13 S Rng. E/W

County Docket No. CONFIDENTIAL

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature Albert Brensing

Title Date 5-13-96

Subscribed and sworn to before me this 13th day of May 19 96.

Notary Public Joann Thaden

Date Commission Expires 4-17-97

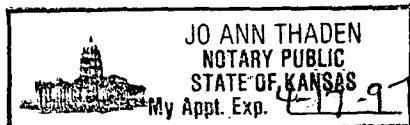
K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
Distribution
KCC SWD/Rep NGPA
KGS Plug Other (Specify)

RECEIVED

KANSAS CORPORATION COMMISSION Form ACO-1 (7-91)

MAY 14 1996

5-14-96
CONSERVATION DIVISION



Operator Name Cross Bar Petroleum, Inc./

Lease Name E. Springer

Well # 1-21

Sec. 21 Twp. 19-S Rge. 16

County Rush

East

West

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken Yes No
(Attach Additional Sheets.)

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No
(Submit Copy.)

List All E.Logs Run: Geo. Rpt.; Mimilog Gamma Ray; Caliper; BHC Acoustilog; High Res Dual Induction Focused Log; Z-Densilog

Log Sample
Formation (Top), Depth and Datum

Name Top Datum

See attached Exhibit "A" for Formation Tops.

PLEASE KEEP ALL INFORMATION CONFIDENTIAL

CONFIDENTIAL

CASING RECORD

New Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (in O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
surface	12 1/4"	8 5/8"	28#	1109'	60/40 Poz.	425	2% Gel, 3% cc
production	7 7/8"	5 1/2"	14#	3873'	60/40 Poz	50	2% gel-18% salt 1/2% CFR3-4# flocele
					60/40 Poz	50	2% gel-18% salt 1/2% CFR3-10# gilsonite 1/2% gas-stop 4# flocele

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
2 spf	3800-3802 non-commercial - set Baker Delta Plug @ 3795'	250 gal. 28% NE Acid.	3800-3802'
2 spf	3732'-3738' & 3745'-3748'	1000 gal 15% NE Acid	3732'-3738' 3745'-3748'

TUBING RECORD	Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input type="checkbox"/> No
	2"	3780'			

Date of First, Resumed Production, SMD or Inj. Shut-in WOPL _____ Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		1500 MMCF	0		

Disposition of Gas: METHOD OF COMPLETION

Production Interval

Vented Sold Used on Lease
(If vented, submit ACO-18.)

Open Hole Perf. Dually Comp. Commingled
 Other (Specify) _____

3732-3738'

3745-3758

SHUTIN

ORIGINAL

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Exhibit "A" to ACO-1

API # 15-165-216910000

Cross Bar Petroleum, Inc./L. D. Drilling, Inc. #1-21 E. Springer

50' E. SW SE NW 21-T19S-R16W

RESULTS OF DST #1, 3714'-3753', ARBUCKLE, 30-60-30-60, 1-1/2" orifice, 1st op - GTS immediately, GA 3931 MCF/5', 4528 MCF/10', 4707 MCF/20', 4886 MCF/30', (H₂S = 500-635 ppm), heavy mist in 17'. 2nd op - 4707 MCF/10', 4707 MCF/20', 5304 MCF/30'. Recovered 15' of GCWM (2% gas, 25% wtr - chl 10,000, 73% M). IHP 1879, IFP 1200-1102, ISIP 1165, FFP 1124-1090, FSIP 1145, FHP 1184, BHT 112°F. Gas would not burn.

RESULTS OF DST #2, 3755'-3773', ARBUCKLE, 45-60-45-75, 1st op - OB in 4", GST in 25", GA 1 MCF/30', 2nd op - GTS 2-1/2', TSTM. Recovered 92' DM, 124' WM (30% W, 70% M), 620' GW - chl 27000. IHP 1877, IFP 189-266, ISIP 1204, FFP 299-388, FSIP 1111, FHP 1846, BHT 118°F.

RESULTS OF DST #3, 3782'-3800', ARBUCKLE, 30-60-45-90. 1st op - OB in 5" . 2nd op - OB in 12". Recovered 72' WM (30% W - Chl 27000 ppm, 70% M). 496' SW. IHP 1879, IFP 76-132, ISIP 1063, FFP 178-264, FSIP 1048, FHP 1857, BHT 112°F.

LOG TOPS

FORMATION KB 2053

	DEPTH	SUBSEA
STONE CORAL	1115	938
KRIDER	2000	53
WABAUNSEE	2732	-679
TARKIO	2902	-849
HEEBNER	3370	-1317
LANSING	3437	-1384
BASE KS CITY	3603	-1550
BASE MARMATON	3715	-1662
ARBUCKLE	3726	-1673
RTD	3875	-1822
LTD	3875	-1822

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JUL 3 1 1997

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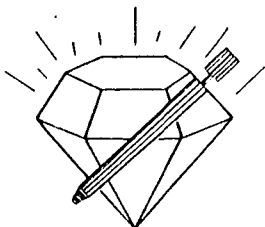
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5-14-96
CONSERVATION DIVISION
WICHITA, KS

ORIGINAL

15-165-21691-0000

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DIAMOND TESTING
P. O. Box 157
HOISINGTON, KANSAS 67544
(316) 653-7550

Page 1 of 3 Pages

Company Cross Bar Petroleum, Inc. Lease & Well No. E. Springer No. 1-21
Elevation 2053 KB Formation Arhuckle Effective Pay -- Ft. Ticket No. 1191
Date 1-25-96 Sec. 21 Twp. 19S Range 16W County Rush State Kansas
Test Approved By Kim B. Shoemaker Diamond Representative Roger D. Friedly

Formation Test No. 1 Interval Tested from 3,714 ft. to 3,753 ft. Total Depth 3,753 ft.
Packer Depth 3,709 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Packer Depth 3,714 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set ft.
Top Recorder Depth (Inside) 3,696 ft. Recorder Number 13386 Cap. 3,875 psi
Bottom Recorder Depth (Outside) 3,750 ft. Recorder Number 13556 Cap. 4,400 psi
Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor L. D. Drilling, Inc. Drill Collar Length -- I.D. -- in.
Mud Type Chemical Viscosity 48 Weight Pipe Length -- I.D. -- in.
Weight 9.25 Water Loss 10.4 cc. Drill Pipe Length 3,683 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 39 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 immediately. Gas to surface in 1 min. (SEE GAS VOLUME REPORT)
Weak 1/2 in blow back during shut-in.
2nd Open: Strong blow. Off bottom of bucket immediately. Weak 1/2 in blow back during shut-in.

Recovered 25 ft. of gas cut watery mud = .1539 bbls. (Grind out: 2%-gas; 25%-water; 73%-mud)

Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of
Remarks

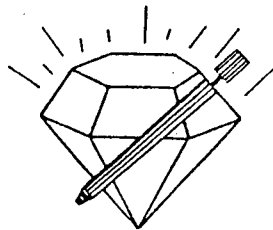
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JUL 31 1997
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FROM CONFIDENTIAL
MAY 14 1996
5-14-96

Time Set Packer(s) 8:50 A.M. XXXX Time Started Off Bottom 11:50 A.M. XXXX Maximum Temperature
Initial Hydrostatic Pressure (A) 1879 P.S.I.
Initial Flow Period Minutes 30 (B) 1200 P.S.I. to (C) 1102 P.S.I.
Initial Closed In Period Minutes 60 (D) 1165 P.S.I.
Final Flow Period Minutes 30 (E) 1124 P.S.I. to (F) 1090 P.S.I.
Final Closed In Period Minutes 60 (G) 1145 P.S.I.
Final Hydrostatic Pressure (H) 1824 P.S.I.

CONSERVATION DIVISION
WICHITA, KS

15-165-21691-0000



DIAMOND TESTING
P. O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313

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Page 2 of 2 Pages

CONFIDENTIAL

FLUID SAMPLE DATA

Company Cross Bar Petroleum, Inc.

Lease & Well No. E. Springer No. 1-21

Date 1-25-96 Sec. 21 Twp. 19 S Range 16 W

Formation Test No. 1 Interval Tested From 3,714 ft. to 3,753 ft. Total Depth 3,753 ft.

Formation Arbuckle

	MUD PIT	RECOVERY
Viscosity	<u>48</u> CP	<u>44</u> CP
Weight	<u>9.25</u>	<u>9.2</u>
Water Loss	<u>10.40</u> CC	<u>32</u> CC
PH Factor	<u>8.50</u>	<u>8.0</u>

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	RESISTIVITY	CHLORIDE CONTENT
Recovery Water	<u>-- @ -- °F.</u>	<u>-- ppm</u>
Recovery Mud	<u>.88 @ 50 °F.</u>	<u>10,000 ppm</u>
Recovery Mud Filtrate	<u>.90 @ 56 °F.</u>	<u>8,800 ppm</u>
Mud Pit Sample	<u>.90 @ 58 °F.</u>	<u>8,500 ppm</u>
Mud Pit Sample Filtrate	<u>.94 @ 60 °F.</u>	<u>7,500 ppm</u>

KCC

MAY 13

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Sample Taken By Roger D. Friedly

Witness By Kim B. Shoemaker

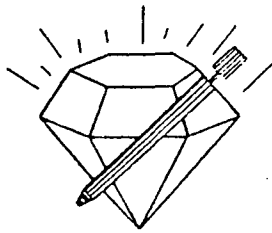
Remarks Pit filtrate triton dish chlorides were 4,000 Ppm.
Recovery filtrate triton dish chlorides were 6,000 Ppm.

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MAY 14 1996

5-14-96
CONSERVATION DIVISION
WICHITA, KS



15-165-21691-0000
DIAMOND TESTING
 P. O. Box 157
 HOISINGTON, KANSAS 67544
 (316) 653-7550
GAS VOLUME REPORT

ORIGINAL
 Page 3 of 3 Pages

Company Cross Bar Petroleum, Inc. Lease & Well No. E. Springer No. 1-21
 Date 1-25-96 Sec. 21 Twp. 19 S Rge. 16 W Location SW SE NW County Rush State KS
 Drilling Contractor L. D. Drilling, Inc. Formation Arbuckle DST No. 1
 Remarks: 1st Open: Gas to surface in 1 mins. Gas would NOT BURN.

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INITIAL FLOW

Open Tool: 8:50 a.m.

Time O'Clock	Orifice Size	Gauge	MCF/D
* 8:55 a.m.	1 1/2 in.	53 psi	3,931
9:00 a.m.	1 1/2 in.	63 psi	4,528
9:05 a.m.	1 1/2 in.	66 psi	4,707
9:10 a.m.	1 1/2 in.	66 psi	4,707
9:15 a.m.	1 1/2 in.	Surging 66-69 psi	4,707-4,886
9:20 a.m.	1 1/2 in.	Surging 66-69 psi	4,707-4,886
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	

FINAL FLOW

Open Tool: 10:20 a.m.

Time O'Clock	Orifice Size	Gauge	MCF/D
10:25 a.m.	1 1/2 in.	64 psi	4,588
* 10:30 a.m.	1 1/2 in.	Surging 64-66 psi	4,588-4,707
10:35 a.m.	1 1/2 in.	Surging 64-66 psi	4,588-4,707
10:40 a.m.	1 1/2 in.	Surging 64-66 psi	4,588-4,707
10:45 a.m.	1 1/2 in.	Surging 64-66 psi	4,588-4,707
10:50 a.m.	1 1/2 in.	Surging 74-76 psi	5,185-5,304
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	

* H²S 500 ppm
 600 ppm
 635 ppm before misting
 Heavy mist in 17 mins.

* Misting
 H²S 652 ppm on shut-in.

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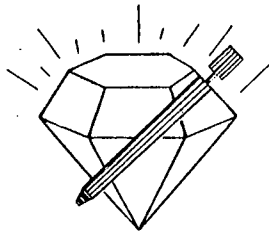
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MAY 14 1996
 5-14-96
 CONSERVATION DIVISION
 WICHITA, KS

15-165-21691-0000



DIAMOND TESTING

P. O. Box 157
HOISINGTON, KANSAS 67544
(316) 653-7550

Company Cross Bar Petroleum, Inc. Lease & Well No. E. Springer No. 1-21
 Elevation 2053 KB Formation Arbuckle Effective Pay --Ft. Ticket No. 1191
 Date 1-25-96 Sec. 21 Twp. 19S Range 16W County Rush State Kansas
 Test Approved By Kim B. Shoemaker Diamond Representative Roger D. Friedly

Formation Test No. 1 Interval Tested from 3,714 ft. to 3,753 ft. Total Depth 3,753 ft.
 Packer Depth 3,709 ft. Size 6 3/4 in. Packer Depth ft. Size in.
 Packer Depth 3,714 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set
 Top Recorder Depth (Inside) 3,696 ft. Recorder Number 13386 Cap. 3,875 psi
 Bottom Recorder Depth (Outside) 3,750 ft. Recorder Number 13556 Cap. 4,400 psi
 Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor L. D. Drilling, Inc. Drill Collar Length -- in. I.D. -- in.
 Mud Type Chemical Viscosity 48 Weight Pipe Length -- in. I.D. -- in.
 Weight 9.25 Water Loss 10.4 cc. Drill Pipe Length 3,683 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 39 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 immediately. Gas to surface in 1 min. (SEE GAS VOLUME REPORT)
Weak 1/2 in blow back during shut-in.
 2nd Open: Strong blow. Off bottom of bucket immediately. Weak 1/2 in blow back during shut-in.

Recovered 25 ft. of gas cut watery mud = .1539 bbls. (Grind out: 2%-gas; 25%-water; 73%-mud)
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

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5-14-96
CONSERVATION DIVISION
WICHITA, KS

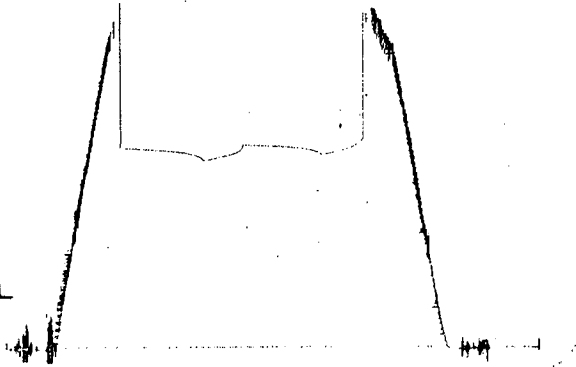
Remarks FROM CONFIDENTIAL

Time Set Packer(s) 8:50 A.M. XXXX Time Started Off Bottom 11:50 A.M. XXXX Maximum Temperature 112°
 Initial Hydrostatic Pressure (A) 1879 P.S.I.
 Initial Flow Period Minutes 30 (B) 1200 P.S.I. to (C) 1102 P.S.I.
 Initial Closed In Period Minutes 60 (D) 1165 P.S.I.
 Final Flow Period Minutes 30 (E) 1124 P.S.I. to (F) 1090 P.S.I.
 Final Closed In Period Minutes 60 (G) 1145 P.S.I.
 Final Hydrostatic Pressure (H) 1824 P.S.I.

DST # 1 outside 13556
 Clock 4913 AAB

3214-3753
 400 3750

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 JUL 31 1997
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This is an actual photograph of recorder chart.

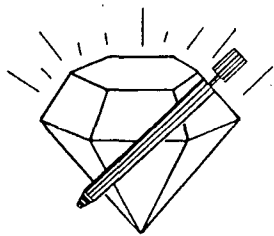
POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1879	1879	PSI
(B) First Initial Flow Pressure.....	1200	1195	PSI
(C) First Final Flow Pressure	1102	1101	PSI
(D) Initial Closed-in Pressure	1165	1156	PSI
(E) Second Initial Flow Pressure.....	1124	1142	PSI
(F) Second Final Flow Pressure.....	1090	1072	PSI
(G) Final Closed-In Pressure.....	1145	1139	PSI
(H) Final Hydrostatic Mud.....	1824	1812	PSI

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 KANSAS CORPORATION COMMISSION

MAY 14 1996

CONSERVATION DIVISION
 WICHITA, KS

COMPANY Cross Bar Petroleum, Inc. LEASE AND WELL NO. E. Springer No. 1-21 SEC 21 TWP 19S RGE 16W TEST NO 1 DATE 1-25-



DIAMOND TESTING

P. O. Box 157
HOISINGTON, KANSAS 67544
(316) 653-7550

Company Cross Bar Petroleum, Inc. Lease & Well No. E. Springer No. 1-21
Elevation 2053 KB Formation Arbuckle Effective Pay -- Ft. Ticket No. 1192
Date 1-25-96 Sec. 21 Twp. 19S Range 16W County Rush State Kansas
Test Approved By Kim B. Shoemaker Diamond Representative Roger D. Friedly

Formation Test No. 2 Interval Tested from 3,755 ft. to 3,773 ft. Total Depth 3,773 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

Top Recorder Depth (Inside) 3,737 ft. Recorder Number 13386 Cap. 3,875 psi
Bottom Recorder Depth (Outside) 3,770 ft. Recorder Number 13556 Cap. 4,400 psi
Below Straddle Recorder Depth ft. Recorder Number Cap.

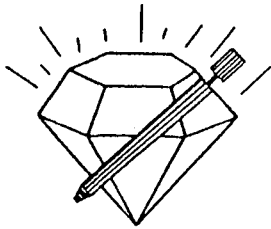
Drilling Contractor L. D. Drilling, Inc. Drill Collar Length -- I.D. -- in.
Mud Type Chemical Viscosity 48 Weight Pipe Length -- I.D. -- in.
Weight 9.4 Water Loss 12.8 cc. Drill Pipe Length 3,724 ft. I.D. 3 1/2 in.
Chlorides 7,000 P.P.M. Test Tool Length 31 ft. Tool Size 3 1/2-IF in.
Jars: Make Bowen Serial Number 1 Anchor Length 18 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: during shut-in. *Weak, 1/2 in., blow. Increasing to bottom of bucket in 4 mins. Slow blow back off bottom of bucket
2nd Open: Fair, 3 in., blow. Increasing to bottom of bucket in 2 1/2 mins. Slow blow back off bottom of bucket during shut-in.

Recovered 92 ft. of drilling mud = .94392 bbls.
Recovered 124 ft. of watery mud = 1.27224 bbls. (Grind out: 30% water; 70% mud) RECEIVED
Recovered 620 ft. of gassy water = 6.3612 bbls. RELEASED
Recovered 836 ft. of TOTAL FLUID = 8.57736 bbls. MAY 14 1996
Recovered ft. of JUL 31 1997

Remarks *Odor in 25 mins. No H²S and would not burn. Sample taken. Gauged 1670 CONSERVATION DIVISION
FROM CONFIDENTIAL WCD/TA KS

Time Set Packer(s) 9:10 ~~XXX~~ P.M. Time Started Off Bottom 12:55 ~~PMX~~ A.M. Maximum Temperature 118°
Initial Hydrostatic Pressure (A) 1877 P.S.I.
Initial Flow Period Minutes 45 (B) 189 P.S.I. to (C) 266 P.S.I.
Initial Closed In Period Minutes 60 (D) 1204 P.S.I.
Final Flow Period Minutes 45 (E) 299 P.S.I. to (F) 398 P.S.I.
Final Closed In Period Minutes 75 (G) 1111 P.S.I.
Final Hydrostatic Pressure (H) 1846 P.S.I.



DIAMOND TESTING
 P. O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313

FLUID SAMPLE DATA

Company Cross Bar Petroleum, Inc.

Lease & Well No. E. Springer No. 1-21

Date 1-25-96 Sec. 21 Twp. 19 S Range 16 W

Formation Test No. 2 Interval Tested From 3,755 ft. to 3,773 ft. Total Depth 3,773 ft.

Formation Arbuckle

	MUD PIT	RECOVERY	
Viscosity	<u>48</u> CP	<u>46</u> CP	
Weight	<u>9.4</u>	<u>9.4</u>	
Water Loss	RELEASED	<u>12.0</u> CC	Water
PH Factor	<u>8.5</u>	<u>8.5</u>	<u>7.0</u>

JUL 31 1997

FROM CONFIDENTIAL

	RESISTIVITY	CHLORIDE CONTENT
Recovery Water	<u>.24 @ 62 °F.</u>	<u>32,000 ppm</u>
Recovery Mud	<u>.78 @ 60 °F.</u>	<u>10,000 ppm</u>
Recovery Mud Filtrate	<u>.80 @ 62 °F.</u>	<u>9,000 ppm</u>
Mud Pit Sample	<u>.70 @ 64 °F.</u>	<u>9,500 ppm</u>
Mud Pit Sample Filtrate	<u>.75 @ 66 °F.</u>	<u>8,500 ppm</u>

Sample Taken By Roger D. Friedly

Witness By Kim B. Shoemaker

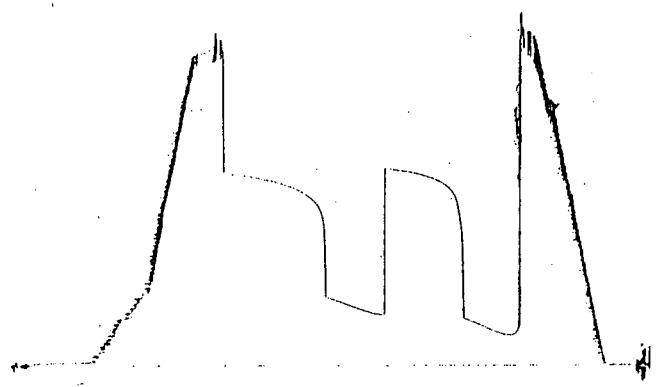
Remarks Pit filtrate triton dish chlorides were 7,000 Ppm.
Recovery filtrate triton dish chlorides were 7,500 Ppm.
Recovery water dish chlorides were 27,000 Ppm.

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CONSERVATION DIVISION
 WICHITA, KS

DST # 2 Outside 13586 ARB 3705-8773
 Clock 6:13 Loc 3790



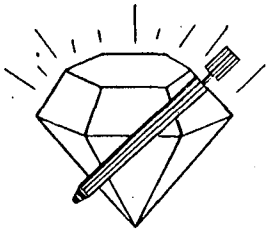
This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1877	1869	PSI
(B) First Initial Flow Pressure.....	189	198	PSI
(C) First Final Flow Pressure	266	268	PSI
(D) Initial Closed-in Pressure	1204	1128	PSI
(E) Second Initial Flow Pressure.....	299	295	PSI
(F) Second Final Flow Pressure.....	398	392	PSI
(G) Final Closed-in Pressure.....	1111	1103	PSI
(H) Final Hydrostatic Mud.....	1846	1848	PSI

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 WICHITA, KS



DIAMOND TESTING

P. O. Box 157
HOISINGTON, KANSAS 67544
(316) 653-7550

Company Cross Bar Petroleum, Inc. Lease & Well No. E. Springer No. 1-21
Elevation 2053 KB Formation Arbuckle Effective Pay --Ft. Ticket No. 1193
Date 1-26-96 Sec. 21 Twp. 19S Range 16W County Rush State Kansas
Test Approved By Kim B. Shoemaker Diamond Representative Roger D. Friedly

Formation Test No. 3 Interval Tested from 3,782 ft. to 3,800 ft. Total Depth 3,800 ft.
Packer Depth 3,777 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Packer Depth 3,782 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set
Top Recorder Depth (Inside) 3,764 ft. Recorder Number 13386 Cap. 3,875 psi
Bottom Recorder Depth (Outside) 3,797 ft. Recorder Number 13556 Cap. 4,400 psi
Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor L. D. Drilling, Inc. Drill Collar Length -- I.D. -- in.
Mud Type Chemical Viscosity 47 Weight Pipe Length -- I.D. -- in.
Weight 9.2 Water Loss 12.0 cc. Drill Pipe Length 3,751 ft. I.D. 3 1/2 in.
Chlorides 8,000 P.P.M. Test Tool Length 31 ft. Tool Size 3 1/2-IF in.
Jars: Make Bowen Serial Number 1 Anchor Length 18 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: Fair, 2 in., blow. Increasing to bottom of bucket in 5 mins. No blow back during shut-in.
2nd Open: Weak, 1 in., blow. Increasing to bottom of bucket in 12 mins. No blow back during shut-in.

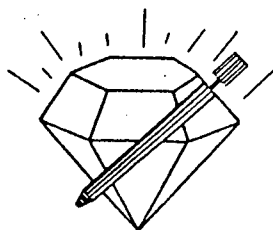
Recovered 72 ft. of watery mud = .73872 bbls. (Grind out: 30%-water; 70%-mud)
Recovered 496 ft. of salt water = 5.08896 bbls.
Recovered 568 ft. of TOTAL FLUID = 5.82768 bbls.
Recovered ft. of
Recovered ft. of

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Remarks MAY 14 1996

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WICHITA, KS

Time Set Packer(s) 1:05 ~~XXXX~~ P.M. Time Started Off Bottom 4:50 ~~XXXX~~ P.M. Maximum Temperature 112°
Initial Hydrostatic Pressure (A) 1879 P.S.I.
Initial Flow Period Minutes 30 (B) 76 P.S.I. to (C) 132 P.S.I.
Initial Closed In Period Minutes 60 (D) 1063 P.S.I.
Final Flow Period Minutes 45 (E) 178 P.S.I. to (F) 264 P.S.I.
Final Closed In Period Minutes 90 (G) 1048 P.S.I.
Final Hydrostatic Pressure (H) 1857 P.S.I.



DIAMOND TESTING
 P. O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313

FLUID SAMPLE DATA

Company Cross Bar Petroleum, Inc.
 Lease & Well No. E. Springer No. 1-21
 Date 1-26-96 Sec. 21 Twp. 19 S Range 16 W
 Formation Test No. 3 Interval Tested From 3,782 ft. to 3,800 ft. Total Depth 3,800 ft.
 Formation Arbuckle

	<u>MUD PIT</u>	<u>RECOVERY</u>	
Viscosity	<u>47</u> CP	<u>48</u> CP	
Weight	<u>9.2</u>	<u>9.05</u>	
Water Loss	<u>12.0</u> CC	<u>32.8</u> CC	Water
PH Factor	<u>9.0</u>	<u>7.0</u>	<u>6.0</u>

	<u>RESISTIVITY</u>	<u>CHLORIDE CONTENT</u>
Recovery Water	<u>.26 @ 67 °F.</u>	<u>27,500 ppm</u>
Recovery Mud	<u>.74 @ 54 °F.</u>	<u>12,000 ppm</u>
Recovery Mud Filtrate	<u>.52 @ 62 °F.</u>	<u>14,000 ppm</u>
Mud Pit Sample	<u>.62 @ 60 °F.</u>	<u>11,000 ppm</u>
Mud Pit Sample Filtrate	<u>.80 @ 62 °F.</u>	<u>9,000 ppm</u>

Sample Taken By Roger D. Friedly

Witness By Kim B. Shoemaker

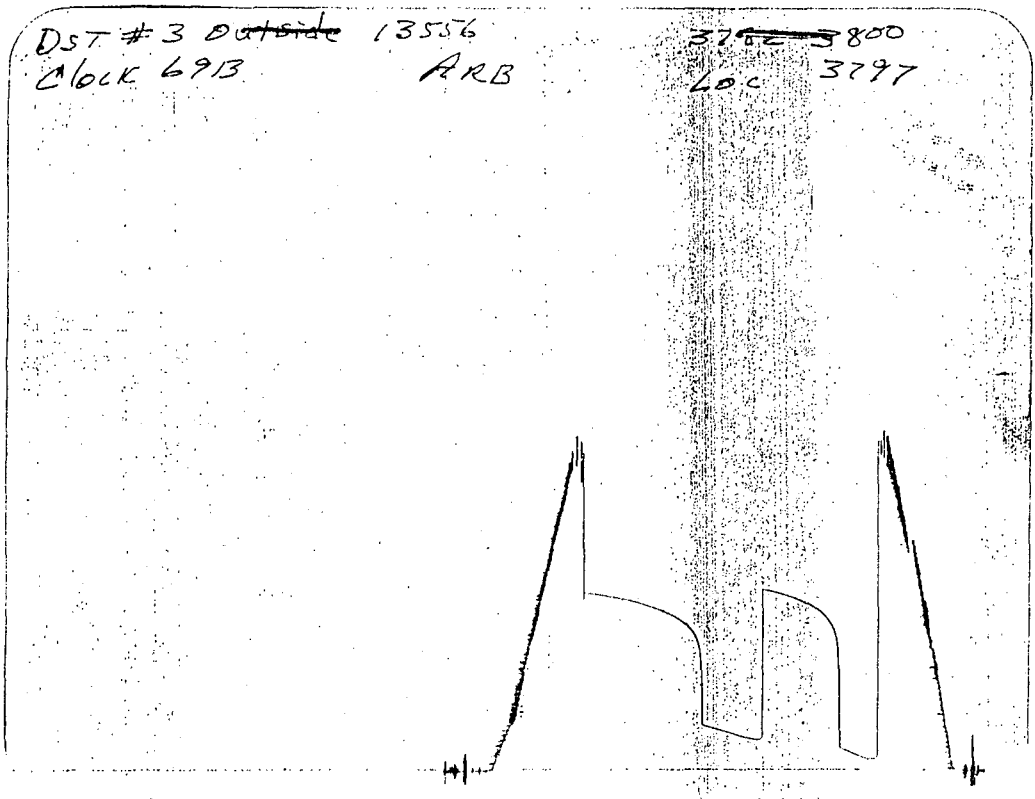
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Remarks Pit filtrate triton dish chlorides were 8,000 Ppm.

Recovery filtrate triton dish chlorides were 11,000 Ppm.

Recovery water dish chlorides were 26,500 Ppm.

MAY 14 1996
 CONSERVATION DIVISION
 WICHITA, KS



This is an actual photograph of recorder chart.

POINT	PRESSURE		PSI
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1879	1887	PSI
(B) First Initial Flow Pressure.....	76	74	PSI
(C) First Final Flow Pressure	132	132	PSI
(D) Initial Closed-in Pressure	1063	1062	PSI
(E) Second Initial Flow Pressure	178	196	PSI
(F) Second Final Flow Pressure.....	264	265	PSI
(G) Final Closed-in Pressure.....	1048	1047	PSI
(H) Final Hydrostatic Mud	1857	1862	PSI

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CONSERVATION DIVISION
WICHITA, KS

RELEASED

JUL 31 1997

FROM CONFIDENTIAL

TELEPHONE:

AREA CODE 913 483-2627
AREA CODE 913 483-3887

ALLIED CEMENTING COMPANY, INC.

P. O. BOX 31

RUSSELL, KANSAS 67665

ORIGINAL

TO: Cross Bar Petroleum, Inc.
151 N., Main Centre Plaza #630
Wichita, KS 67202

INVOICE NO. 70770
PURCHASE ORDER NO. _____
LEASE NAME E. Springer 1-21
DATE 1-20-96

SERVICE AND MATERIALS AS FOLLOWS:

CONFIDENTIAL

Common 255 sks @\$6.10	\$1,555.50	
Pozmix 170 sks @3.15	535.50	
Gel 7 sks @\$9.50	66.50	
Chloride 13 sks @\$28.00	<u>364.00</u>	\$2,521.50
Handling 425 sks @\$1.05	446.25	
Mileage (17) @\$.04¢ per sk per mi	289.00	
Surface	445.00	
Extra Footage 809' @\$.41¢	331.69	
Mi @\$2.35 pmp trk chg	39.95	
1 plug	<u>90.00</u>	<u>1,641.89</u>
	Total	\$4,163.39

RCC

MAY 13

CONFIDENTIAL

If Account CURRENT a
Discount of \$ 832.68
will be Allowed ONLY if
Paid Within 30 Days from
Date of Invoice.

Thank You!

All Prices Are Net, Payable 30 Days Following Date of Invoice. 1½% Charged Thereafter.

3330.71

RELEASED

JUL 31 1997

FROM CONFIDENTIAL

RECEIVED
KANSAS CORPORATION COMMISSION

MAY 14 1996

CONSERVATION DIVISION
WICHITA, KS

ALLIED CEMENTING CO., INC.

3793

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

ORIGINAL

SERVICE POINT: Crossbar

DATE <u>1-20-96</u>	SEC <u>2-1</u>	TWP <u>19</u>	RANGE <u>16</u>	CALLED OUT <u>0:00 AM</u>	ON LOCATION <u>5:35 AM</u>	JOB START <u>9:26</u>	JOB FINISH <u>10:00 PM</u>
LEASE <u>E. Springer</u>		WELL # <u>1-21</u>	LOCATION <u>15th & Anton</u>	COUNTY <u>Butler</u>		STATE <u>Ks</u>	

OLD OR (NEW) (Circle one)

CONFIDENTIAL

CONTRACTOR L.D. Ditz OWNER Springer

TYPE OF JOB SURFACE CEMENT

HOLE SIZE 12 1/4 T.D. 1109

CASING SIZE 8 1/8 DEPTH 1109

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS. 0.75

AMOUNT ORDERED 425 SA 40 245

COMMON	<u>255</u>	@	<u>6.10</u>	<u>1555.50</u>
POZMIX	<u>170</u>	@	<u>3.15</u>	<u>535.50</u>
GEL	<u>7</u>	@	<u>9.50</u>	<u>66.50</u>
CHLORIDE	<u>13</u>	@	<u>28.00</u>	<u>364.00</u>

RELEASED

EQUIPMENT

JUL 31 1997

PUMP TRUCK CEMENTER Tom M

181 HELPER Tim M

BULK TRUCK

DRIVER

BULK TRUCK

261 DRIVER Bob B

HANDLING 425 @ 1.05 446.25

MILEAGE 17 289.00

RCC TOTAL \$3256.75

MAY 13

CONFIDENTIAL

SERVICE

REMARKS:

Loaded all cement
Recess & plugs displaced
Down cement & did
circulate thru all down
Washed up
By Allied Cementing
KS
KS

DEPTH OF JOB	<u>1109</u>		
PUMP TRUCK CHARGE	<u>0-300'</u>		<u>445.00</u>
EXTRA FOOTAGE	<u>809'</u>	@	<u>.41</u> <u>331.69</u>
MILEAGE	<u>17</u>	@	<u>2.35</u> <u>39.95</u>
PLUG	<u>1 plug - holder</u>	@	<u>90.00</u> <u>90.00</u>

TOTAL \$906.64

CHARGE TO: Crossbar Petroleum Inc.

STREET 151 N. Main Centre Plaza Suite 630

CITY Wichita STATE Ks ZIP 67202

FLOAT EQUIPMENT

To Allied Cementing Co., Inc.
 You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

SIGNATURE [Signature]

TAX - 0 -
 TOTAL CHARGE \$4163.39
 DISCOUNT \$832.68 IF PAID IN 30 DAYS

Net \$ 3330.71

CUSTOMER COPY



REMIT TO:
P.O. BOX 951046
DALLAS, TX 75395-1046

INVOICE

ORIGINAL

INVOICE NO.	DATE
915178	01/27/1996

WELL LEASE NO./PROJECT		WELL/PROJECT LOCATION		STATE	OWNER
SPRINGER 1-21		RUSH		KS	SAME
SERVICE LOCATION		CONTRACTOR	JOB PURPOSE		TICKET DATE
HAYS		L.D. DRILLING	CEMENT PRODUCTION CASINO		01/27/1996
ACCT NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
202259	T. C. LARSON			COMPANY TRUCK	03015

CONFIDENTIAL

CROSS BAR PETROLEUM INC
CENTRE CITY PLAZA
151 NORTH MAIN SUITE 630
WICHITA, KS 67202-1407

DIRECT CORRESPONDENCE TO
P O BOX 428
HAYS KS 67601
913-625-3431

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
000-117	MILEAGE CEMENTING ROUND TRIP	45	MI	2.85	128.25
		1	UNT		
001-016	CEMENTING CASING	3875	FT	1,570.00	1,570.00
		1	UNT		
030-016	CEMENTING PLUG SW ALUM TOP	5	1/2 IN	60.00	60.00
		1	EA		
018-317	SUPER FLUSH	12	SK	100.00	1,200.00
314-163	CLAYFIX II	1	GAL	28.00	28.00
504-136	CEMENT - 40/60 POZMIX STANDARD	100	SK	7.66	766.00
509-968	SALT	900	LB	.15	135.00
507-153	CFR-3	42	LB	4.85	203.70
507-210	FLOCKLE	25	LB	1.65	41.25
508-291	GILSONITE BULK	500	LB	.40	200.00
507-918	GASSTOP	21	LB	33.55	704.55
500-207	BULK SERVICE CHARGE FROM CONFIDENTIAL	135	CFT	1.35	182.25
500-306	MILEAGE CMTG MAT DEL OR RETURN	215.078	TMI	.95	204.32

INVOICE SUBTOTAL

5,423.32

DISCOUNT (BID)

NO

1,355.81

INVOICE BID AMOUNT

MAY 13

4,067.51

*-KANSAS STATE SALES TAX

CONFIDENTIAL

86.82

*-HAYS CITY SALES TAX

17.72

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KANSAS CORPORATION COMMISSION

MAY 14 1996

CONSERVATION DIVISION
WICHITA, KS

INVOICE TOTAL - PLEASE PAY THIS AMOUNT

54,172.05

TERMS: If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If customer has an approved open account, invoices are payable on the twentieth day after date of invoice. Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.