

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name JEPSON #1-13 Test No. 1 Date 9/8/94
Company CROSS BAR PETROLEUM INC. Zone RED EAGLE
Address 220 W. DOUGLAS/SWT #140 WICHITA KS 67202 Elevation 2231 KB
Co. Rep./Geo. STEVE DAVIS Cont. MURFIN #21 Est. Ft. of Pay KS
Location: Sec. 13 Twp. 29S Rge. 18W Co. KIOWA State KS

Interval Tested	<u>3143-3180</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>37</u>	Wt. Pipe I.D. - 2.7 Ft. Run	<u>150</u>
Top Packer Depth	<u>3138</u>	Drill Collar - 2.25 Ft. Run	<u>9.1</u>
Bottom Packer Depth	<u>3143</u>	Mud Wt.	<u>45</u> lb/Gal.
Total Depth	<u>3180</u>	Viscosity	<u>14.0</u>

Tool Open @ 6:27 P.M. Initial Blow FAIR TO STRONG BLOW (BOTTOM OF BUCKET IN 30 MIN)

Final Blow WEAK BLOW (1-3 1/2" IN WATER)

Recovery - Total Feet 100 Flush Tool? NO

Rec. <u>20</u>	Feet of	<u>GAS IN PIPE</u>
Rec. <u>40</u>	Feet of	<u>GASSY MUED 18%GAS/82%MUD</u>
Rec. <u>60</u>	Feet of	<u>MUD WATER 85%WATER/15%MUD</u>
Rec. _____	Feet of	_____
Rec. _____	Feet of	_____

BHT 101 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.2 @ 81 °F Chlorides 59000 ppm Recovery Chlorides 10000 ppm System

(A) Initial Hydrostatic Mud 1560.9 PSI AK1 Recorder No. 13788 Range 4650

(B) First Initial Flow Pressure 52.7 PSI @ (depth) 3177 w / Clock No. 22993

(C) First Final Flow Pressure 68.6 PSI AK1 Recorder No. 10248 Range 4400

(D) Initial Shut-in Pressure 991.4 PSI @ (depth) 3172 w / Clock No. 30410

(E) Second Initial Flow Pressure 80.9 PSI AK1 Recorder No. _____ Range _____

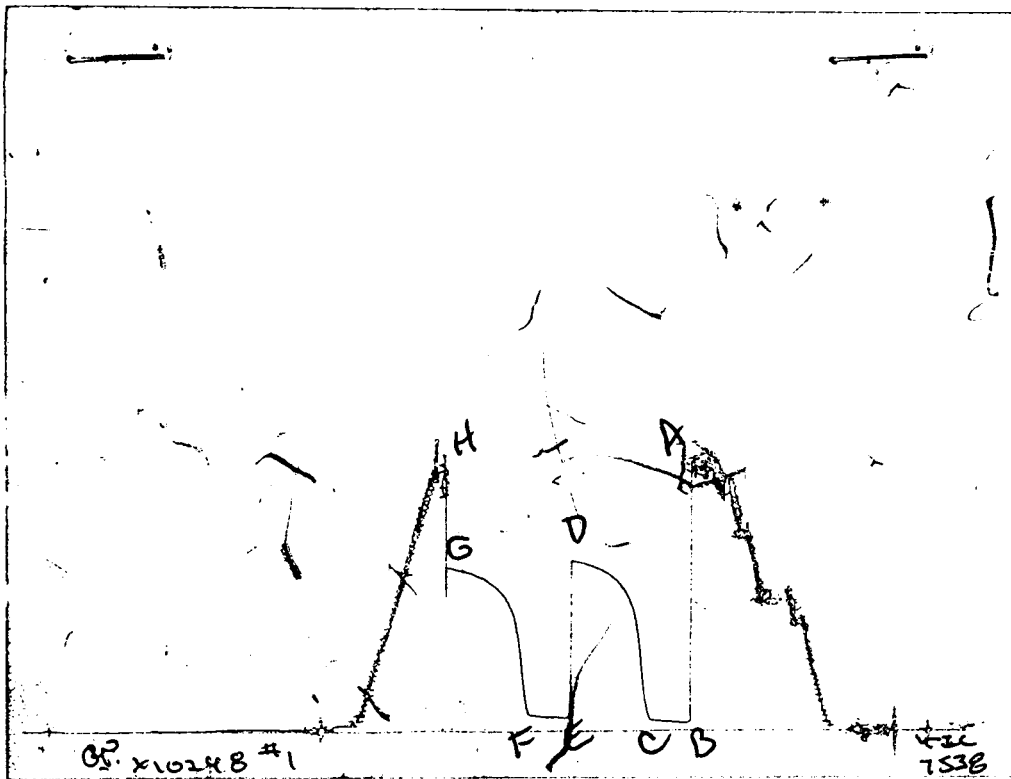
(F) Second Final Flow Pressure 94.4 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 955.3 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 1461.4 PSI Initial Shut-in 60 Final Shut-in 60

Our Representative GARY PEVOTEAUX

CHART PAGE



This is an actual photograph of recorder chart 10248

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1526	1560.9
(B) FIRST INITIAL FLOW PRESSURE	30	52.7
(C) FIRST FINAL FLOW PRESSURE	59	68.6
(D) INITIAL CLOSED-IN PRESSURE	995	991.4
(E) SECOND INITIAL FLOW PRESSURE	69	80.9
(F) SECOND FINAL FLOW PRESSURE	98	94.4
(G) FINAL CLOSED-IN PRESSURE	968	955.3
(H) FINAL HYDROSTATIC MUD	1482	1461.4

TRILOBITE TESTING, L.L.C.

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Drill-Stem Test Data

Well Name JEPSON #1-13 Test No. 2 Date 9/10/94
Company CROSS BAR PETROLEUM INC. Zone EMPORIA
Address 220 W. DOUGLAS/SWT #140 WICHITA KS 67202 Elevation 2231 KB
Co. Rep./Geo. STEVE DAVIS Cont. MURFIN #21 Est. Ft. of Pay KS
Location: Sec. 13 Twp. 29S Rge. 18W Co. KIOWA State KS

Interval Tested <u>3545-3563</u>	Drill Pipe Size <u>4.5" XH</u>
Anchor Length <u>18</u>	Wt. Pipe I.D. - 2.7 Ft. Run <u>150</u>
Top Packer Depth <u>3540</u>	Drill Collar - 2.25 Ft. Run <u>9.3</u>
Bottom Packer Depth <u>3545</u>	Mud Wt. <u>43</u> lb/Gal.
Total Depth <u>3563</u>	Viscosity <u>12.0</u>

Tool Open @ 12:30 A. Initial Blow FAIR TO STRONG BLOW (BOTTOM OF BUCKET IN 11 MIN)

Final Blow STRONG BLOW (BOTTOM OF BUCKET IN 20 SECS)

Recovery - Total Feet 80 Flush Tool? NO

Rec. <u>20</u>	Feet of <u>DRILLING MUD</u>
Rec. <u>60</u>	Feet of <u>WATER MUD 20%WATER/80%MUD</u>
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____

BHT 105 °F Gravity 74 °API @ _____ °F Corrected Gravity _____ °API
RW 0.23 @ _____ °F Chlorides 55000 ppm Recovery Chlorides 12000 ppm System

(A) Initial Hydrostatic Mud 1742.5 PSI AK1 Recorder No. 13788 Range 4650

(B) First Initial Flow Pressure 21.8 PSI @ (depth) 3560 w / Clock No. 22993

(C) First Final Flow Pressure 33.3 PSI AK1 Recorder No. 10248 Range 4400

(D) Initial Shut-in Pressure 249.5 PSI @ (depth) 3555 w / Clock No. 30410

(E) Second Initial Flow Pressure 31.0 PSI AK1 Recorder No. _____ Range _____

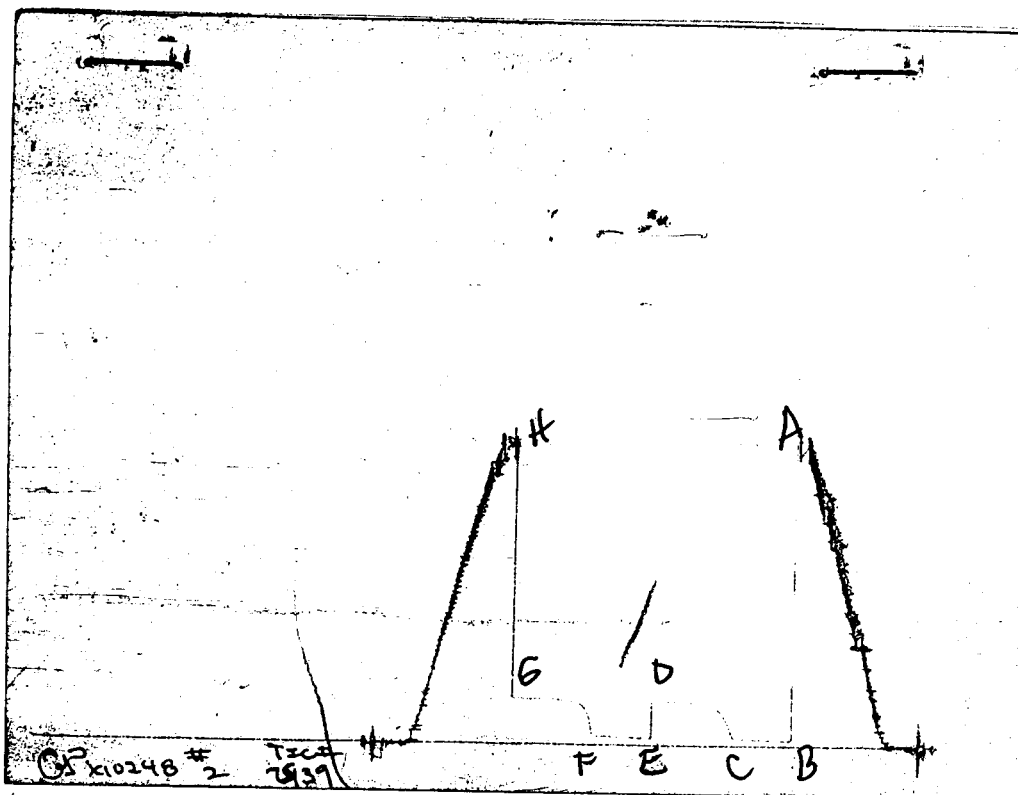
(F) Second Final Flow Pressure 44.7 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 261.9 PSI Initial Opening 45 Final Flow 45

(H) Final Hydrostatic Mud 1706.4 PSI Initial Shut-in 60 Final Shut-in 60

Our Representative GARY PEVOTEAUX

CHART PAGE



This is an actual photograph of recorder chart 10248

	FIELD READING	OFFICE READING
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(A) INITIAL HYDROSTATIC MUD	1721	1742.5
(B) FIRST INITIAL FLOW PRESSURE	25	21.8
(C) FIRST FINAL FLOW PRESSURE	30	33.3
(D) INITIAL CLOSED-IN PRESSURE	256	249.5
(E) SECOND INITIAL FLOW PRESSURE	32	31
(F) SECOND FINAL FLOW PRESSURE	42	44.7
(G) FINAL CLOSED-IN PRESSURE	256	261.9
(H) FINAL HYDROSTATIC MUD	1707	1706.4

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name JEPSON #1-13 Test No. 3 Date 9/10/94
Company CROSS BAR PETROLEUM INC. Zone BERN LIMESTO
Address 220 W. DOUGLAS/SWT #140 WICHITA KS 67202 Elevation 2231 KB
Co. Rep./Geo. STEVE DAVIS Cont. MURFIN #21 Est. Ft. of Pay
Location: Sec. 13 Twp. 29S Rge. 18W Co. KIOWA State KS

Interval Tested <u>3592-3652</u>	Drill Pipe Size <u>4.5" XH</u>
Anchor Length <u>60</u>	Wt. Pipe I.D. - 2.7 Ft. Run <u> </u>
Top Packer Depth <u>3587</u>	Drill Collar - 2.25 Ft. Run <u>150</u>
Bottom Packer Depth <u>3592</u>	Mud Wt. <u>9.2</u> lb/Gal.
Total Depth <u>3652</u>	Viscosity <u>44</u> Filtrate <u>12.8</u>

Tool Open @ 4"16 P.M. Initial Blow FAIR TO STRONG BLOW (BOTTOM OF BUCKET IN 20 MIN)

Final Blow FAIR BLOW (1-10" IN WATER)

Recovery - Total Feet 370 Flush Tool? NO

Rec. <u>55</u>	Feet of <u>GAS IN PIPE</u>
Rec. <u>65</u>	Feet of <u>MUD WATER 60%WATER/40%MUD</u>
Rec. <u>305</u>	Feet of <u>MUD WATER 93%WATER/7%MUD</u>
Rec. <u> </u>	Feet of <u> </u>
Rec. <u> </u>	Feet of <u> </u>

BHT 107 °F Gravity °API @ °F Corrected Gravity °API
RW 0.026 @ 76 °F Chlorides 40000 ppm Recovery Chlorides 14000 ppm System

(A) Initial Hydrostatic Mud 1764.4 PSI AK1 Recorder No. 13788 Range 4650

(B) First Initial Flow Pressure 77.6 PSI @ (depth) 3649 w / Clock No. 22993

(C) First Final Flow Pressure 171.8 PSI AK1 Recorder No. 10248 Range 4400

(D) Initial Shut-in Pressure 1063.7 PSI @ (depth) 3644 w / Clock No. 30410

(E) Second Initial Flow Pressure 186.5 PSI AK1 Recorder No. Range

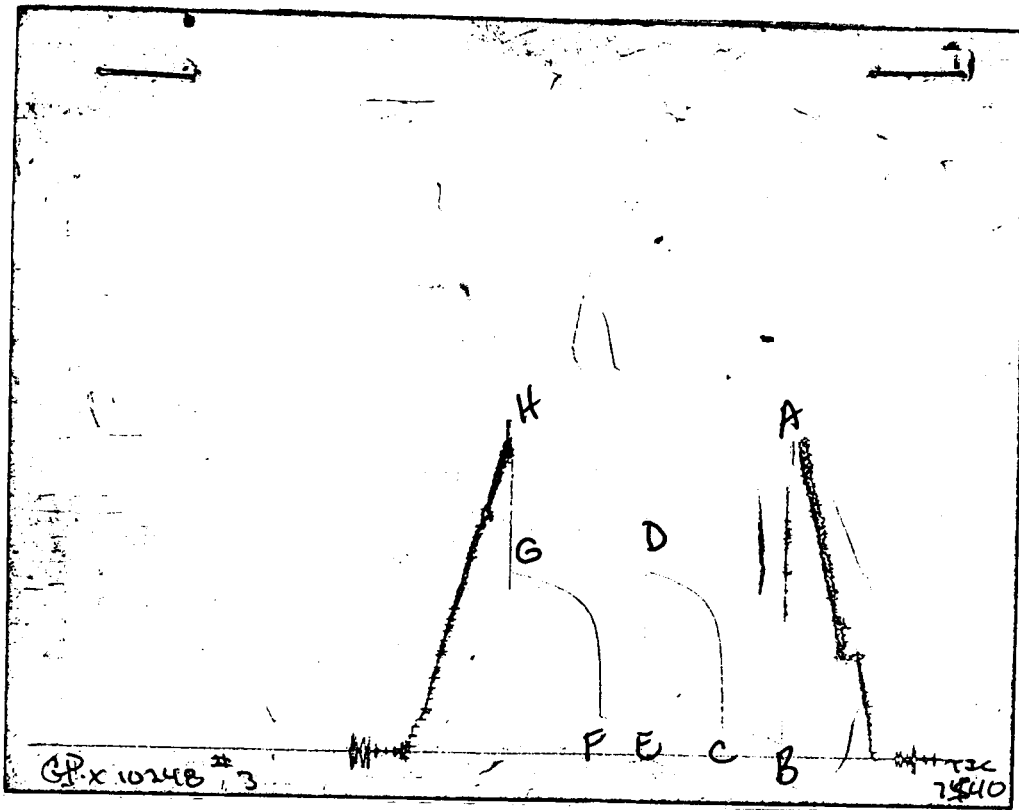
(F) Second Final Flow Pressure 221.4 PSI @ (depth) w / Clock No.

(G) Final Shut-in Pressure 1041.8 PSI Initial Opening 45 Final Flow 30

(H) Final Hydrostatic Mud 1742.5 PSI Initial Shut-in 60 Final Shut-in 60

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CHART PAGE



This is an actual photograph of recorder chart 10248

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1766	1764.4
(B) FIRST INITIAL FLOW PRESSURE	57	77.6
(C) FIRST FINAL FLOW PRESSURE	148	171.8
(D) INITIAL CLOSED-IN PRESSURE	1056	1063.7
(E) SECOND INITIAL FLOW PRESSURE	168	186.5
(F) SECOND FINAL FLOW PRESSURE	198	221.4
(G) FINAL CLOSED-IN PRESSURE	1034	1041.8
(H) FINAL HYDROSTATIC MUD	1734	1742.5

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name JEPSON #1-13 Test No. 4 Date 9/12/94
Company CROSS BAR PETROLEUM INC. Zone LANS "A"
Address 220 W. DOUGLAS/SWT #140 WICHITA KS 67202 Elevation 2231 KB
Co. Rep./Geo. STEVE DAVIS Cont. MURFIN #21 Est. Ft. of Pay _____
Location: Sec. 13 Twp. 29S Rge. 18W Co. KIOWA State KS

Interval Tested 4294-4310 Drill Pipe Size 4.5" XH
Anchor Length 16 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 4289 Drill Collar - 2.25 Ft. Run 150
Bottom Packer Depth 4294 Mud Wt. _____ lb/Gal.
Total Depth 4310 Viscosity 47 Filtrate 8.0

Tool Open @ 10:42 A.M. Initial Blow STRONG BLOW (GAS TO SURFACE IN 4.5 MIN)
SEE GAS VOLUME REPORT

Final Blow STRONG BLOW (SEE GAS VOLUME REPORT)
COMMENT: SLID TOOL 7" TO BOTTOM

Recovery - Total Feet 125 Flush Tool? NO

Rec. 4168 Feet of GAS IN PIPE
Rec. 65 Feet of DRILLING MUD 100%MUD
Rec. 60 Feet of WATER MUD 38%WATER/62%MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 113 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.29 @ _____ °F Chlorides 34000 ppm Recovery Chlorides 9000 ppm System

(A) Initial Hydrostatic Mud 2071.6 PSI AK1 Recorder No. 13788 Range 4650

(B) First Initial Flow Pressure 65.2 PSI @ (depth) 4307 w / Clock No. 30401

(C) First Final Flow Pressure 65.2 PSI AK1 Recorder No. 10248 Range 4400

(D) Initial Shut-in Pressure 1544.5 PSI @ (depth) 4302 w / Clock No. 23858

(E) Second Initial Flow Pressure 60.6 PSI AK1 Recorder No. _____ Range _____

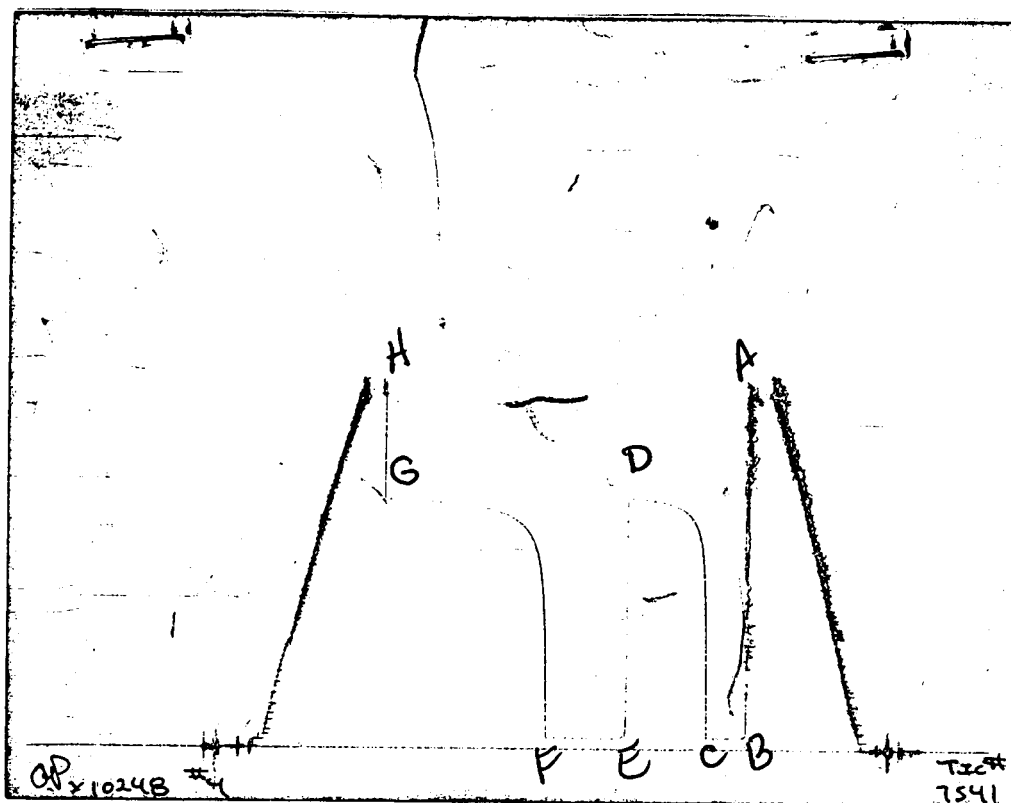
(F) Second Final Flow Pressure 62.9 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1428.6 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 2057.3 PSI Initial Shut-in 60 Final Shut-in 120

Our Representative GARY PEVOTEAUX

CHART PAGE



This is an actual photograph of recorder chart 10248

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2041	2071.6
(B) FIRST INITIAL FLOW PRESSURE	57	65.2
(C) FIRST FINAL FLOW PRESSURE	57	65.2
(D) INITIAL CLOSED-IN PRESSURE	1436	1544.5
(E) SECOND INITIAL FLOW PRESSURE	59	60.6
(F) SECOND FINAL FLOW PRESSURE	62	62.9
(G) FINAL CLOSED-IN PRESSURE	1427	1428.6
(H) FINAL HYDROSTATIC MUD	2036	2057.3

GAS VOLUME REPORT

CROSS BAR PETROLEUM INC.

JEPSON #1-13

DST # 4

MIN	INCHES WATER	ORIFICE	MCF/D	MIN	PSIG INS OF WATER	ORIFICE	MCF/D
4.5	GAS TO SURFACE			10	7.5 PSI	0.75	219
10	6 PSI	0.75	194	20	6 PSI	0.75	194
20	5.5 PSI	0.75	185	30	5.5 PSI	0.75	185
30	5.5 PSI	0.75	185	40	5 PSI	0.75	175
				50	5 PSI	0.75	175
				55	5 PSI	0.75	175

Remarks:

NATURAL GAS ANALYSIS REPORT

Sampled by:
Trilobite Testing, L.L.C.
Hays, Kansas
Scott City, Kansas
Phone: 800-728-5369
Fax: 913-625-5620

Analyzed by:
Caraway Analytical, L.L.C.
728 North Roosevelt
Liberal, Kansas 67901
Phone: 316-324-5389
Fax: 316-626-7108

Lab Number: 940470
Sample From: Jepson #1-13 DST 4
Producer: Cross Bar Petroleum
Date:
Time:
Sampler:
Source:

Analyzed: 09/14/94
Pressure:
Temperature:
Location: 13-29S-18W
County: Kiowa
State: Kansas
Formation: Lans KC A

	Mole %	GPM
Helium	He: 0.472	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 14.336	0.000
Carbon Dioxide	CO2: 0.144	0.000
Methane	C1: 75.967	0.000
Ethane	C2: 3.993	1.068
Propane	C3: 2.613	0.720
Iso Butane	iC4: 0.420	0.137
Normal Butane	nC4: 1.033	0.326
Iso Pentane	iC5: 0.266	0.097
Normal Pentane	nC5: 0.320	0.116
Hexanes Plus	C6+: 0.436	0.190

TOTAL: 100.000 2.654
Z Fact: 0.9977
SP.GR.: 0.7029
BTU (SAT): 984.0 @ 14.73 psia
BTU (DRY): 1001.4 @ 14.73 psia
OCTANE RATING: 107.2

COMMENTS:

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name JEPSON #1-13 Test No. 5 Date 9/13/94
Company CROSS BAR PETROLEUM INC. Zone LANS "B"
Address 220 W. DOUGLAS/SWT #140 WICHITA KS 67202 Elevation _____
Co. Rep./Geo. STEVE DAVIS Cont. MURFIN #21 Est. Ft. of Pay _____
Location: Sec. 13 Twp. 29S Rge. 18W Co. KIOWA State KS

Interval Tested 4320-4334 Drill Pipe Size 4.5" XH
Anchor Length 14 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 4315 Drill Collar - 2.25 Ft. Run 150
Bottom Packer Depth 4320 Mud Wt. _____ 9.1 lb/Gal.
Total Depth 4334 Viscosity 47 Filtrate 8.0

Tool Open @ 3:09 A.M. Initial Blow WEAK BLOW (1/4-1" IN WATER)

Final Blow VERY WEAK BLOW (1/4" OR LESS)
COMMENT: SLID TOOL 7" TO BOTTOM

Recovery - Total Feet 60 Flush Tool? NO

Rec. 60 Feet of WATER MUD WITH OIL SPECS 41%WATER/59%MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 113 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.029 @ 74 °F Chlorides 40000 ppm Recovery Chlorides 9000 ppm System

(A) Initial Hydrostatic Mud 2071.6 PSI AK1 Recorder No. 13788 Range 4650

(B) First Initial Flow Pressure 35.5 PSI @ (depth) 4331 w / Clock No. 30401

(C) First Final Flow Pressure 44.7 PSI AK1 Recorder No. 10248 Range 4400

(D) Initial Shut-in Pressure 1447.2 PSI @ (depth) 4326 w / Clock No. 23858

(E) Second Initial Flow Pressure 53.8 PSI AK1 Recorder No. _____ Range _____

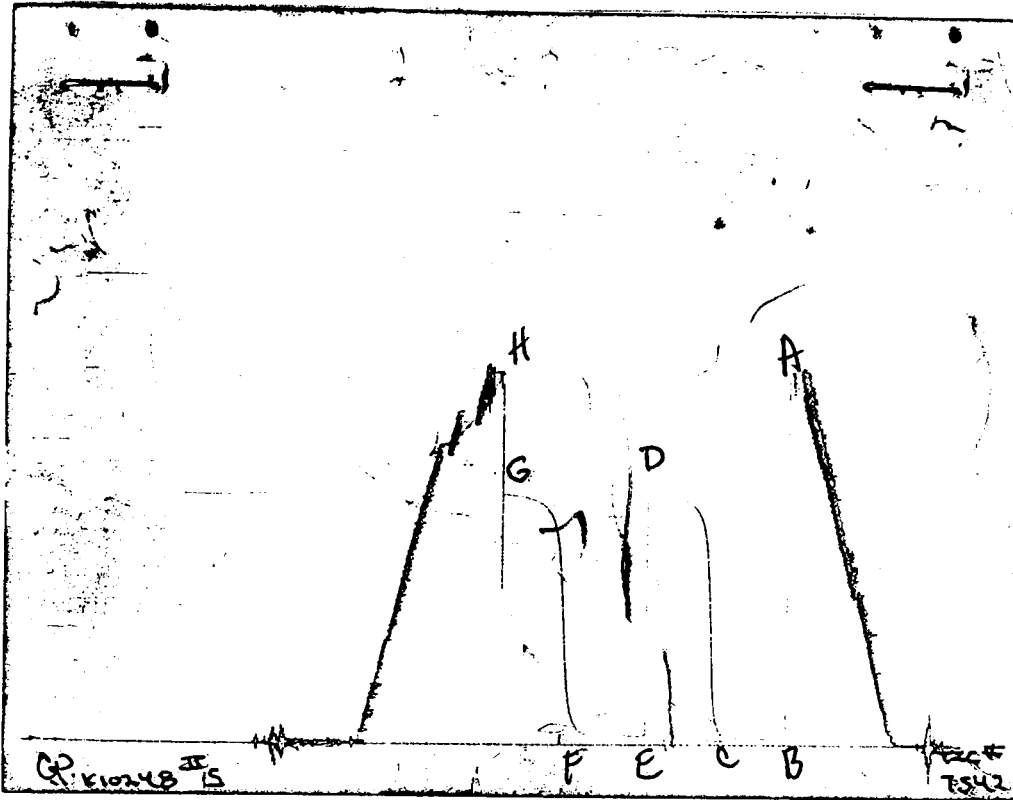
(F) Second Final Flow Pressure 59.5 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1443.9 PSI Initial Opening 45 Final Flow 45

(H) Final Hydrostatic Mud 2045.2 PSI Initial Shut-in 60 Final Shut-in 60

Our Representative GARY PEVOTEAUX

CHART PAGE



This is an actual photograph of recorder chart 10248

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2085	2071.6
(B) FIRST INITIAL FLOW PRESSURE	21	35.5
(C) FIRST FINAL FLOW PRESSURE	30	44.7
(D) INITIAL CLOSED-IN PRESSURE	1440	1447.2
(E) SECOND INITIAL FLOW PRESSURE	30	53.8
(F) SECOND FINAL FLOW PRESSURE	37	59.5
(G) FINAL CLOSED-IN PRESSURE	1432	1443.9
(H) FINAL HYDROSTATIC MUD	2069	2045.2

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name JEPSON #1-13 Test No. 6 Date 9/15/94
Company CROSS BAR PETROLEUM INC. Zone MISS
Address 220 W. DOUGLAS/SWT #140 WICHITA KS 67202 Elevation 2231 KB
Co. Rep./Geo. STEVE DAVIS Cont. MURFIN #21 Est. Ft. of Pay KS
Location: Sec. 13 Twp. 29S Rge. 18W Co. KIOWA State KS

Interval Tested <u>4810-4925</u>	Drill Pipe Size <u>4.5" XH</u>
Anchor Length <u>115</u>	Wt. Pipe I.D. - 2.7 Ft. Run <u>150</u>
Top Packer Depth <u>4805</u>	Drill Collar - 2.25 Ft. Run <u>9.2</u>
Bottom Packer Depth <u>4810</u>	Mud Wt. <u>49</u> lb/Gal.
Total Depth <u>4925</u>	Viscosity <u>10.4</u>

Tool Open @ 9:08 A.M. Initial Blow STRONG BLOW GAS TO SURFACE IN 8 MIN (SEE GAS VOLUME RE

Final Blow STRONG BLOW (SEE GAS VOLUME REPORT)

Recovery - Total Feet 230 Flush Tool? NO

Rec. <u>4550</u>	Feet of <u>GAS IN PIPE</u>
Rec. <u>230</u>	Feet of <u>GASSY DRILLING MUD 10%GAS/90%MUD</u>
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____

BHT 129 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides 10000 ppm Recovery Chlorides 10000 ppm System

(A) Initial Hydrostatic Mud 2437.2 PSI AK1 Recorder No. 13788 Range 4650

(B) First Initial Flow Pressure 150.0 PSI @ (depth) 4922 w / Clock No. 23858

(C) First Final Flow Pressure 189.5 PSI AK1 Recorder No. 10248 Range 4400

(D) Initial Shut-in Pressure 1513.8 PSI @ (depth) 4917 w / Clock No. 30410

(E) Second Initial Flow Pressure 167.4 PSI AK1 Recorder No. _____ Range _____

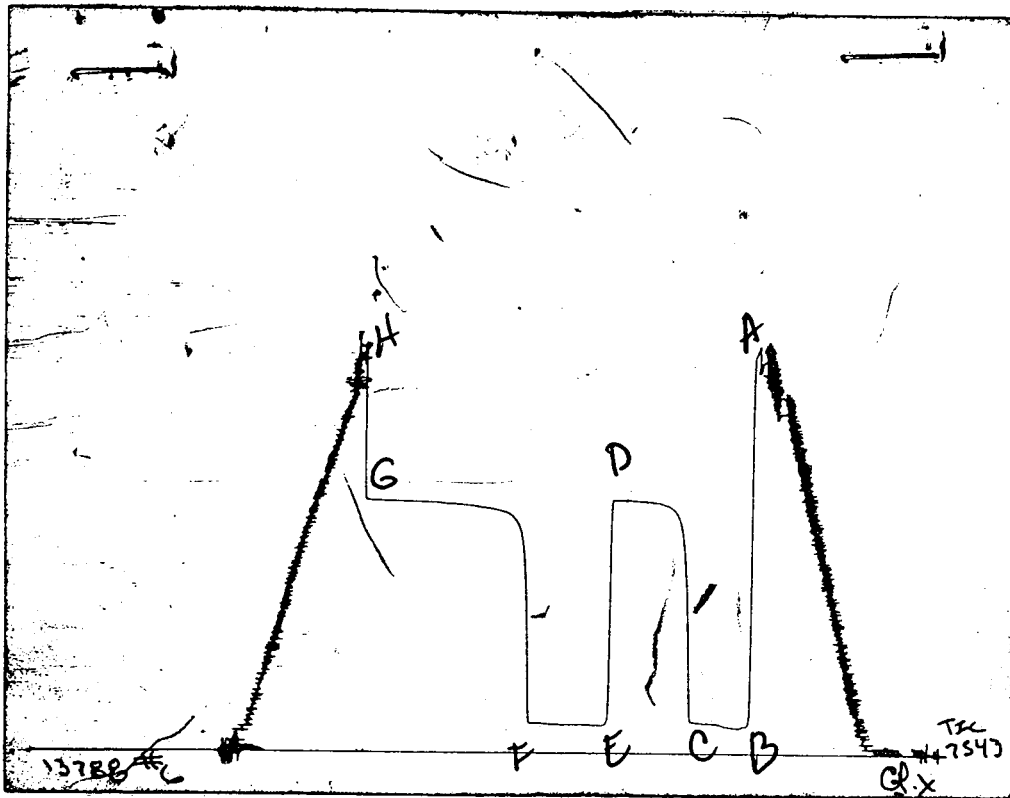
(F) Second Final Flow Pressure 175.5 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1511.5 PSI Initial Opening 45 Final Flow 60

(H) Final Hydrostatic Mud 2372.0 PSI Initial Shut-in 60 Final Shut-in 120

Our Representative GARY PEVOTEAUX

CHART PAGE



This is an actual photograph of recorder chart 13788

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2426	2437.2
(B) FIRST INITIAL FLOW PRESSURE	153	150
(C) FIRST FINAL FLOW PRESSURE	195	189.5
(D) INITIAL CLOSED-IN PRESSURE	1507	1513.8
(E) SECOND INITIAL FLOW PRESSURE	160	167.4
(F) SECOND FINAL FLOW PRESSURE	179	175.5
(G) FINAL CLOSED-IN PRESSURE	1504	1511.5
(H) FINAL HYDROSTATIC MUD	2367	2372

GAS VOLUME REPORT

CROSS BAR PETROLEUM INC.

JEPSON #1-13

DST # 6

MIN	INCHES WATER	ORIFICE	MCF/D	MIN	PSIG INS OF WATER	ORIFICE	MCF/D
8	GAS TO SURFACE			10	41	0.5	290
10	17	0.5	159	20	44	0.5	306
20	27	0.5	216	30	47	0.5	320
30	33	0.5	248	40	47	0.5	320
40	37	0.5	270	50	47	0.5	320
				55	47	0.5	320

Remarks:

NATURAL GAS ANALYSIS REPORT

Sampled by:
Trilobite Testing, L.L.C.
Hays, Kansas
Scott City, Kansas
Phone: 800-728-5369
Fax: 913-625-5620

Analyzed by:
Caraway Analytical, L.L.C.
728 North Roosevelt
Liberal, Kansas 67901
Phone: 316-624-5389
Fax: 316-626-7108

Lab Number: 940479	Analyzed: 09/19/94
Sample From: Jepson #1-13 DST 6	Pressure:
Producer: Cross Bar Petroleum	Temperature:
Date:	Location: 13-29S-18W
Time:	County: Kiowa
Sampler:	State: Kansas
Source:	Formation: Mississippi

	Mole %	GPM
Helium	He: 0.146	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 1.965	0.000
Carbon Dioxide	CO2: 0.107	0.000
Methane	C1: 91.549	0.000
Ethane	C2: 3.773	1.009
Propane	C3: 1.389	0.383
Iso Butane	iC4: 0.197	0.064
Normal Butane	nC4: 0.403	0.127
Iso Pentane	iC5: 0.072	0.026
Normal Pentane	nC5: 0.143	0.052
Hexanes Plus	C6+: 0.256	0.112

TOTAL: 100.000 1.773
Z Fact: 0.9977
SP.GR.: 0.6153
BTU (SAT): 1053.9 @ 14.73 psia
BTU (DRY): 1072.6 @ 14.73 psia
OCTANE RATING: 125.0

COMMENTS: