

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name SCHMIDT TRUST #1-23 Test No. 1 Date 11/15/94
Company CROSS BAR PETROLEUM INC Zone LANS "A"
Address 151 N. MAIN, STE 630, WICHITA, KS 67202-1407 Elevation 2174
Co. Rep./Geo. THOMAS BLAIR Cont. MURFIN DRILLING #21 Est. Ft. of Pay KS
Location: Sec. 23 Twp. 29S Rge. 18W Co. KIOWA State KS

Interval Tested 4252-4272 Drill Pipe Size 4.5" XH
Anchor Length 20 Wt. Pipe I.D. - 2.7 Ft. Run 150
Top Packer Depth 4247 Drill Collar - 2.25 Ft. Run 9.1
Bottom Packer Depth 4252 Mud Wt. 46 8.4 lb/Gal.
Total Depth 4272 Viscosity 46 Filtrate 8.4

Tool Open @ 3:58 PM Initial Blow STRONG BLOW. BOTTOM OF BUCKET IN 10 SECONDS.
GAS TO SURFACE IN 32 MINUTES (SEE GAS VOLUME REPORT).

Final Blow STRONG BLOW (SEE GAS VOLUME REPORT).

Recovery - Total Feet 80 Flush Tool? NO

Rec. 4155 Feet of GAS IN PIPE
Rec. 80 Feet of GAS CUT MUD. 5% GAS; 95% MUD.
Rec. 0 Feet of 0
Rec. 0 Feet of 0
Rec. 0 Feet of 0

BHT 111 °F Gravity 6000 °API @ 6000 °F Corrected Gravity 6000 °API
RW 6000 @ 6000 °F Chlorides 6000 ppm Recovery Chlorides 6000 ppm System

(A) Initial Hydrostatic Mud 2037.3 PSI AK1 Recorder No. 13788 Range 4650

(B) First Initial Flow Pressure 31.4 PSI @ (depth) 4269 w / Clock No. 30401

(C) First Final Flow Pressure 33.7 PSI AK1 Recorder No. 10248 Range 4400

(D) Initial Shut-in Pressure 1407.1 PSI @ (depth) 4264 w / Clock No. 23858

(E) Second Initial Flow Pressure 31.4 PSI AK1 Recorder No. 0 Range 0

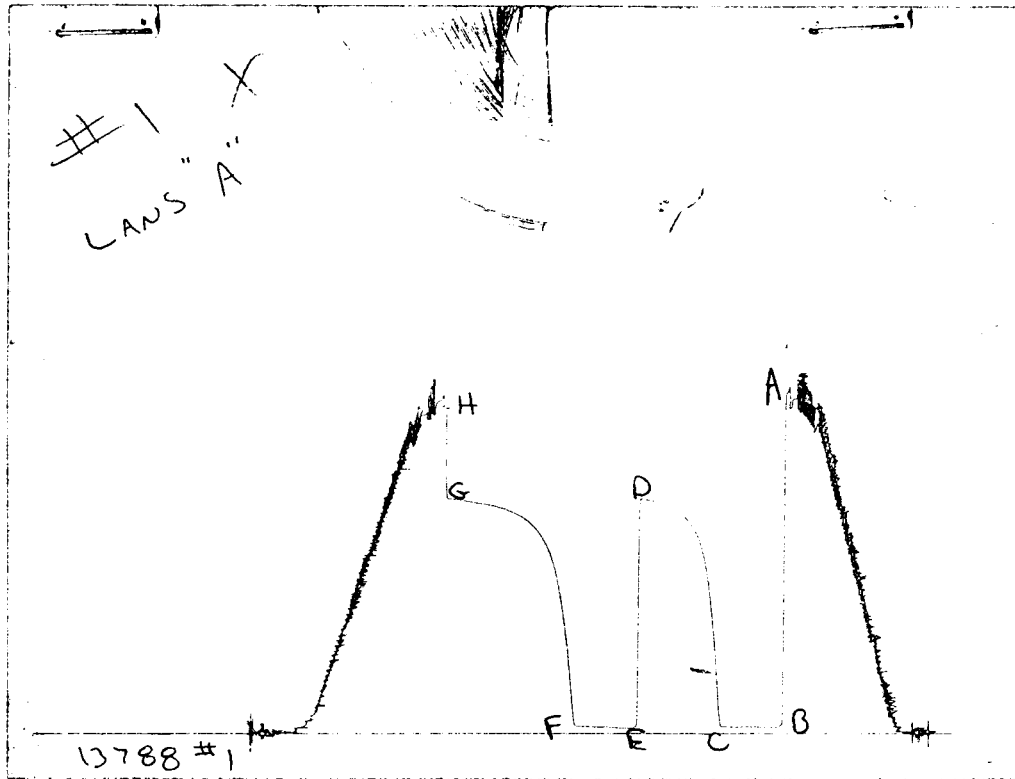
(F) Second Final Flow Pressure 38.4 PSI @ (depth) 0 w / Clock No. 0

(G) Final Shut-in Pressure 1407.1 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 1953.9 PSI Initial Shut-in 60 Final Shut-in 120

Our Representative GARY PEVOTEAUX

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2019	2037.3
(B) FIRST INITIAL FLOW PRESSURE	18	31.4
(C) FIRST FINAL FLOW PRESSURE	23	33.7
(D) INITIAL CLOSED-IN PRESSURE	1410	1407.1
(E) SECOND INITIAL FLOW PRESSURE	21	31.4
(F) SECOND FINAL FLOW PRESSURE	28	38.4
(G) FINAL CLOSED-IN PRESSURE	1410	1407.1
(H) FINAL HYDROSTATIC MUD	1954	1953.9

GAS VOLUME REPORT

CROSS BAR PETROLEUM INC

SCHMIDT TRUST #1-23

DST # 1

MIN	IN OF WATER	ORIFICE	MCF/D
32		0.5	GTS
35	5	0.5	14.1
45	5	0.5	14.1

MIN	IN OF WATER	ORIFICE	MCF/D
10	5	0.5	14.1
20	48	0.25	11.6
30	51	0.25	12.1
40	48	0.25	11.6
45	48	0.25	11.6

Remarks:



GAS VOLUME REPORT

CROSS BAIR PETL. INC.
OPERATOR

SCHMIDT # 1-23

WELL NAME AND NO.

DST NO.

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:	940600	Analyzed:	11/27/94
Sample From:	Schmidt Trust #1-23 DST 1	Pressure:	
Producer:	Cross Bar Petroleum	Temperature:	
Date:		Location:	23-29S-18W
Time:		County:	Kiowa
Sampler:		State:	Kansas
Source:		Formation:	Lansing A

	Mole %	GPM
Helium	He: 0.786	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 20.755	0.000
Carbon Dioxide	CO2: 0.000	0.000
Methane	C1: 69.649	0.000
Ethane	C2: 3.817	1.021
Propane	C3: 2.469	0.680
Iso Butane	iC4: 0.399	0.131
Normal Butane	nC4: 0.950	0.300
Iso Pentane	iC5: 0.255	0.093
Normal Pentane	nC5: 0.292	0.106
Hexanes Plus	C6+: 0.628	0.274
TOTAL:	100.000	2.604
Z Fact:	0.9979	
SP.GR.:	0.7273	
BTU (SAT):	919.1 @ 14.73 psia	
BTU (DRY):	935.3 @ 14.73 psia	
OCTANE RATING:	98.6	

COMMENTS: Helium calculated based on Nitrogen

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name SCHMIDT TRUST #1-23 Test No. 2 Date 11/17/94
Company CROSS BAR PETROLEUM INC Zone ALTAMONT
Address 151 N. MAIN, STE 630, WICHITA, KS 67202-1407 Elevation 2174
Co. Rep./Geo. STEVE DAVIS Cont. MURFIN DRILLING #21 Est. Ft. of Pay _____
Location: Sec. 23 Twp. 29S Rge. 18W Co. KIOWA State KS

Interval Tested	<u>4700-4748</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>48</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>4695</u>	Drill Collar - 2.25 Ft. Run	<u>150</u>
Bottom Packer Depth	<u>4700</u>	Mud Wt.	<u>9.1</u> lb/Gal.
Total Depth	<u>4748</u>	Viscosity	<u>47</u> Filtrate <u>8.4</u>

Tool Open @ 11:52 AM Initial Blow WEAK BLOW.

Final Blow VERY WEAK BLOW. FLUSHED TOOL 12 MINUTES INTO
SECOND OPEN. NO HELP. WEAK BLOW DECREASING.

Recovery - Total Feet 25 Flush Tool? YES

Rec. <u>25</u>	Feet of <u>DRILLING MUD. 100% MUD.</u>
Rec. _____	Feet of _____
Rec. _____	Feet of <u>0</u>
Rec. _____	Feet of _____
Rec. _____	Feet of _____

BHT 126 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides 5000 ppm Recovery Chlorides 5000 ppm System

(A) Initial Hydrostatic Mud 2256.5 PSI AK1 Recorder No. 13788 Range 4650

(B) First Initial Flow Pressure 23.2 PSI @ (depth) 4745 w / Clock No. 30401

(C) First Final Flow Pressure 24.3 PSI AK1 Recorder No. 10248 Range 4400

(D) Initial Shut-in Pressure 32.1 PSI @ (depth) 4740 w / Clock No. 23858

(E) Second Initial Flow Pressure 25.0 PSI AK1 Recorder No. _____ Range _____

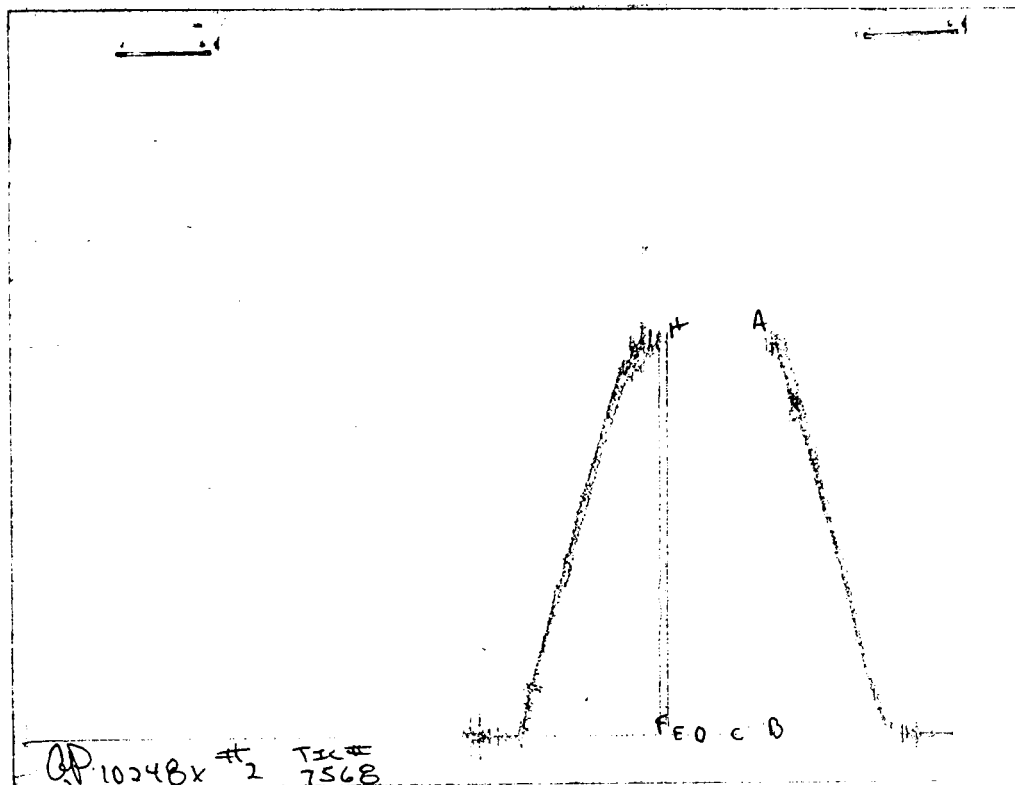
(F) Second Final Flow Pressure 27.8 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure _____ PSI Initial Opening 30 Final Flow 20

(H) Final Hydrostatic Mud 2235.5 PSI Initial Shut-in 30 Final Shut-in NONE

Our Representative GARY PEVOTEAUX

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2261	2256.5
(B) FIRST INITIAL FLOW PRESSURE	27	23.2
(C) FIRST FINAL FLOW PRESSURE	28	24.3
(D) INITIAL CLOSED-IN PRESSURE	37	32.1
(E) SECOND INITIAL FLOW PRESSURE	30	25.0
(F) SECOND FINAL FLOW PRESSURE	32	27.8
(G) FINAL CLOSED-IN PRESSURE		
(H) FINAL HYDROSTATIC MUD	2239	2235.5

TRIOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name SCHMIDT TRUST #1-23 Test No. 3 Date 11/18/94
Company CROSS BAR PETROLEUM INC Zone MISS
Address 151 N. MAIN, STE 630, WICHITA, KS 67202-1407 Elevation 2174
Co. Rep./Geo. STEVE DAVIS Cont. MURFIN DRILLING #21 Est. Ft. of Pay _____
Location: Sec. 23 Twp. 29S Rge. 18W Co. KIOWA State KS

Interval Tested	<u>4780-4889</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>109</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>4775</u>	Drill Collar - 2.25 Ft. Run	<u>150</u>
Bottom Packer Depth	<u>4780</u>	Mud Wt.	<u>9.2</u> lb/Gal.
Total Depth	<u>4889</u>	Viscosity	<u>45</u>
		Filtrate	<u>8.0</u>

Tool Open @ 8:28 AM Initial Blow STRONG BLOW. BOTTOM OF BUCKET IN 1-1/2 MINUTES.
GAS TO SURFACE IN 45 MINUTES. TOO SMALL TO MEASURE.
Final Blow STRONG BLOW (SEE GAS VOLUME REPORT).

Recovery - Total Feet 195 Flush Tool? NO

Rec. <u>75</u>	Feet of <u>DRILLING MUD.</u>
Rec. <u>120</u>	Feet of <u>DRILLING MUD WITH OIL SPECS.</u>
Rec. _____	Feet of <u>0</u>
Rec. _____	Feet of _____
Rec. _____	Feet of _____

BHT 128 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 2.15 @ 67 °F Chlorides 5500 ppm Recovery Chlorides 4000 ppm System

(A) Initial Hydrostatic Mud 2330.2 PSI AK1 Recorder No. 13788 Range 4650

(B) First Initial Flow Pressure 102.6 PSI @ (depth) 4886 w / Clock No. 30401

(C) First Final Flow Pressure 110.6 PSI AK1 Recorder No. 10248 Range 4400

(D) Initial Shut-in Pressure 1249.5 PSI @ (depth) 4881 w / Clock No. 23858

(E) Second Initial Flow Pressure 116.4 PSI AK1 Recorder No. _____ Range _____

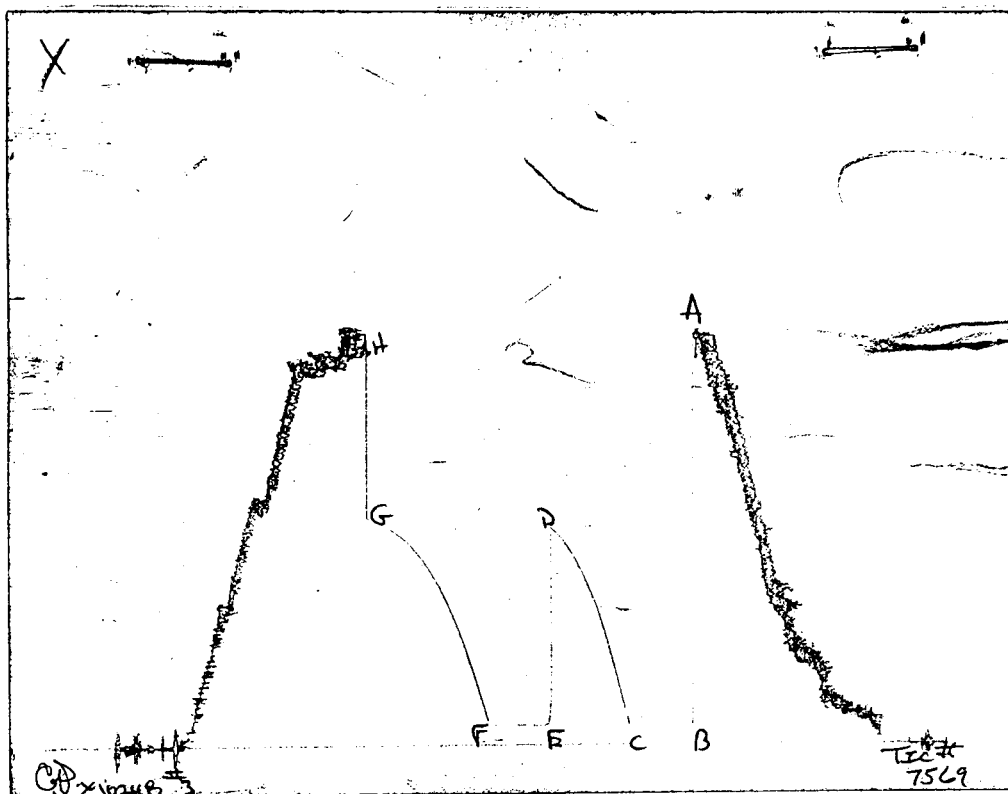
(F) Second Final Flow Pressure 123.2 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1310.7 PSI Initial Opening 45 Final Flow 45

(H) Final Hydrostatic Mud 2293.9 PSI Initial Shut-in 60 Final Shut-in 90

Our Representative GARY PEVOTEAUX

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2327	2330.2
(B) FIRST INITIAL FLOW PRESSURE	84	102.6
(C) FIRST FINAL FLOW PRESSURE	98	110.6
(D) INITIAL CLOSED-IN PRESSURE	1240	1249.5
(E) SECOND INITIAL FLOW PRESSURE	109	116.4
(F) SECOND FINAL FLOW PRESSURE	114	123.2
(G) FINAL CLOSED-IN PRESSURE	1299	1310.7
(H) FINAL HYDROSTATIC MUD	2316	2293.9

GAS VOLUME REPORT

CROSS BAR PETROLEUM INC

SCHMIDT TRUST #1-23

DST # 3

MIN	IN OF	ORIFICE	MCF/D
45	WATER	0.5	GTS TSTM

MIN	IN OF	ORIFICE	MCF/D
5	55PSI	0.5	81.8
10	15PSI	0.5	41
20	55	0.25	12.6
30	72	0.25	14.3
20	86	0.25	15.5
45	90	0.25	15.9

Remarks:



GAS VOLUME REPORT

SCHMIDT 1-23

3
DST NO.

FINAL OPEN

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:	940601	Analyzed:	11/27/94
Sample From:	Schmidt Trust #1-23 DST 3	Pressure:	
Producer:	Cross Bar Petroleum	Temperature:	
Date:		Location:	23-29S-18W
Time:		County:	Kiowa
Sampler:		State:	Kansas
Source:		Formation:	Mississippi

	Mole %	GPM
Helium	He: 0.125	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 3.297	0.000
Carbon Dioxide	CO2: 0.252	0.000
Methane	C1: 88.021	0.000
Ethane	C2: 3.781	1.011
Propane	C3: 1.409	0.388
Iso Butane	iC4: 0.251	0.082
Normal Butane	nC4: 0.522	0.165
Iso Pentane	iC5: 0.175	0.064
Normal Pentane	nC5: 0.199	0.072
Hexanes Plus	C6+: 1.968	0.859

TOTAL: 100.000 2.641
Z Fact: 0.9973
SP.GR.: 0.6742
BTU (SAT): 1118.4 @ 14.73 psia
BTU (DRY): 1138.2 @ 14.73 psia
OCTANE RATING: 120.9

COMMENTS: Helium calculated based on Nitrogen

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name SCHMIDT TRUST #1-23 Test No. 4 Date 11/19/94
Company CROSS BAR PETROLEUM INC Zone MISS
Address 151 N. MAIN, STE 630, WICHITA, KS 67202-1407 Elevation 2174
Co. Rep./Geo. STEVE DAVIS Cont. MURFIN DRILLING #21 Est. Ft. of Pay _____
Location: Sec. 23 Twp. 29S Rge. 18W Co. KIOWA State KS

Interval Tested 4865-4899 Drill Pipe Size 4.5" XH
Anchor Length 34 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 4860 Drill Collar - 2.25 Ft. Run 150
Bottom Packer Depth 4865 Mud Wt. 9.0 lb/Gal.
Total Depth 4899 Viscosity 45 Filtrate 8.0

Tool Open @ 12:11 AM Initial Blow STRONG BLOW. BOTTOM OF BUCKET IN 1 MINUTE.
0
Final Blow STRONG BLOW (SEE GAS VOLUME REPORT).

Recovery - Total Feet 185 Flush Tool? NO

Rec. 4670 Feet of GAS IN PIPE
Rec. 65 Feet of GASSY MUD WITH OIL SPECS. 15% GAS; 85% MUD.
Rec. 120 Feet of SLIGHT OIL CUT GASSY MUD. 25% GAS; 2% OIL; 73% MUD.
Rec. _____ Feet of CLEAN OIL AT TOP OF TOOL.
Rec. _____ Feet of _____

BHT 128 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 2.15 @ 67 °F Chlorides 5500 ppm Recovery Chlorides 4000 ppm System

(A) Initial Hydrostatic Mud 2395.2 PSI AK1 Recorder No. 13788 Range 4650

(B) First Initial Flow Pressure 48.1 PSI @ (depth) 4896 w / Clock No. 30401

(C) First Final Flow Pressure 76.5 PSI AK1 Recorder No. 10248 Range 4400

(D) Initial Shut-in Pressure 163.9 PSI @ (depth) 4891 w / Clock No. 23858

(E) Second Initial Flow Pressure 76.5 PSI AK1 Recorder No. _____ Range _____

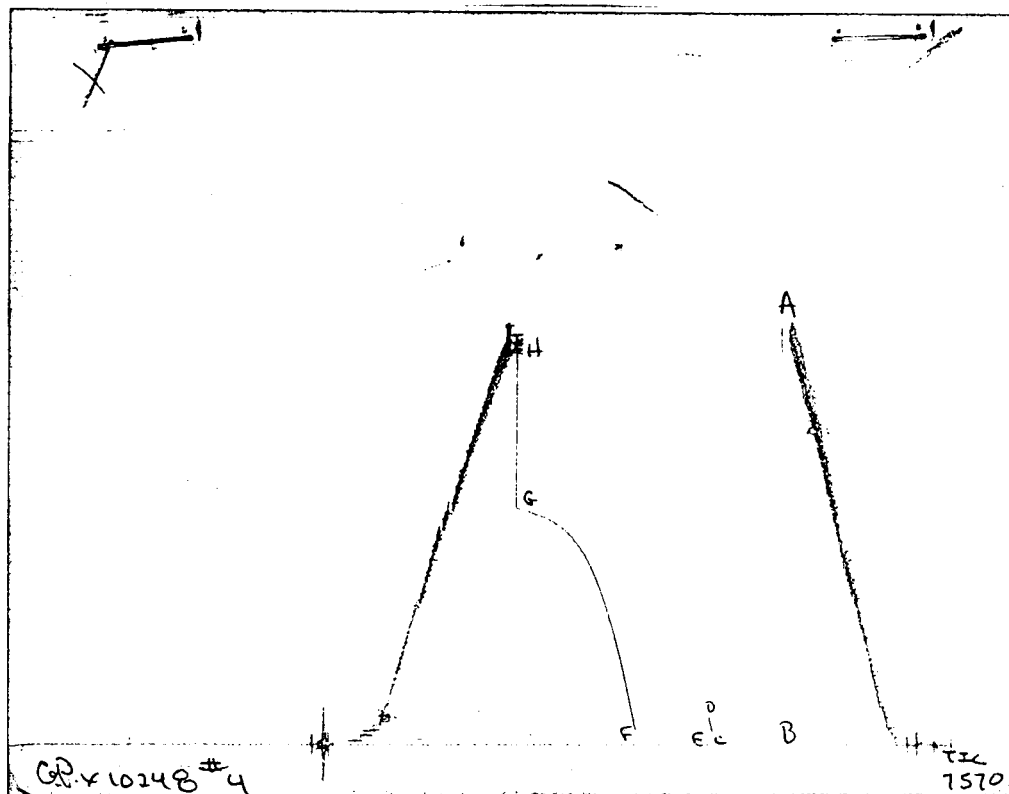
(F) Second Final Flow Pressure 87.7 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1364.2 PSI Initial Opening 45 Final Flow 45

(H) Final Hydrostatic Mud 2306.0 PSI Initial Shut-in 8 Final Shut-in 90

Our Representative GARY PEVOTEAUX

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2336	2395.2
(B) FIRST INITIAL FLOW PRESSURE	34	48.1
(C) FIRST FINAL FLOW PRESSURE	55	76.5
(D) INITIAL CLOSED-IN PRESSURE	169	163.9
(E) SECOND INITIAL FLOW PRESSURE	62	76.5
(F) SECOND FINAL FLOW PRESSURE	85	87.7
(G) FINAL CLOSED-IN PRESSURE	1362	1364.2
(H) FINAL HYDROSTATIC MUD	2294	2306.0

GAS VOLUME REPORT

CROSS BAR PETROLEUM INC

SCHMIDT TRUST #1-23

DST # 4

MIN	IN OF	ORIFICE	MCF/D
45		0.5	NO GTS

MIN	IN OF	ORIFICE	MCF/D
30		0.5	GTS TSTM
35	4	0.25	3.37
40	8	0.25	4.76
45	10	0.25	5.32

Remarks:



GAS VOLUME REPORT

CROSS BAR PETL. INC.
OPERATOR

SCHMIDT TRUST #1-23

4
DST NO

INITIAL OPEN

Final Open

Remarks:

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 7570

Well Name & No.	SCHMIDT TRUST #1-23		Test No.	4	Date	11-19-94
Company	CROSS BAR PETL. INC.		Zone Tested	MISS.		
Address	151 N. MAIN SUITE 630 / WICHITA KS. 67202-1407		Elevation	2174 K.B.		
Co. Rep./Geo.	STEVE DAVIS	Cont.	MURKIN DRUG #21	Est. Ft. of Pay		
Location: Sec.	23	Twp.	29S	Rge.	18W	Co. KAN. State KS.
No. of Copies	6	Distribution Sheet	Yes	No	Turnkey	Yes No Evaluation

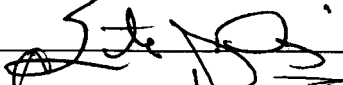
Interval Tested	4865 - 4899'	Drill Pipe Size	4 1/2" X.H.
Anchor Length	34'	Top Choke — 1"	☒ Bottom Choke — 3/4" ☒
Top Packer Depth	4860'	Hole Size — 7 7/8"	☒ Rubber Size — 6 3/4" ☒
Bottom Packer Depth	4865'	Wt. Pipe I.D. — 2.7 Ft. Run	NONE
Total Depth	4899'	Drill Collar — 2.25 Ft. Run	150'
Mud Wt.	9.0+	lb/gal.	Viscosity 45 Filtrate 8.0 cc.
Tool Open @	12:11 A.M.	Initial Blow	Strong blow. (str. of bucket in 1 min)
Final Blow	Strong blow. (see gas volume report)		

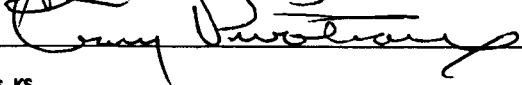
Recovery — Total Feet	185'	Feet of Gas In Pipe	approx 4,670	Flush Tool?	No
Rec.	65	Feet Of	G.M. (wail spec.)	15 %gas	%oil %water 85 %mud
Rec.	120	Feet Of	S.O.C. G.M.	25 %gas	2 %oil %water 73 %mud
Rec.		Feet Of	clean oil @ top of	%gas	%oil %water %mud
Rec.		Feet Of	tool.	%gas	%oil %water %mud
Rec.		Feet Of		%gas	%oil %water %mud

BHT	128	°F Gravity	N.A.	°API @	—	°F Corrected Gravity	N.A.	°API
RW	N.A.	@	—	°F Chlorides	5,500	ppm Recovery	Chlorides 4,000	ppm System
(A) Initial Hydrostatic Mud	2336	PSI	AK1 Recorder No.	13788	Range	4650		
(B) First Initial Flow Pressure	34	PSI	@ (depth)	4896'	w/Clock No.	30401		
(C) First Final Flow Pressure	55	PSI	AK1 Recorder No.	10248	Range	4400		
(D) Initial Shut-In Pressure	169	PSI	@ (depth)	4891'	w/Clock No.	23858		
(E) Second Initial Flow Pressure	62	PSI	AK1 Recorder No.	—	Range	—		
(F) Second Final Flow Pressure	85	PSI	@ (depth)	—	w/Clock No.	—		
(G) Final Shut-In Pressure	1362	PSI	Initial Opening	45	Test	☒ 600		
(H) Final Hydrostatic Mud	2294	PSI	Initial Shut-In	8	Jars	☒ 200		

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Final Flow	45	Safety Joint	☒ 50
Final Shut-In	90	Straddle	
		Circ. Sub	
		Sampler	

Approved By 

Our Representative 

Printcraft Printers • Hays, KS

Extra Packer

Other 6 copies 5

TOTAL PRICE \$ 850.00