

# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name T.K.O. #1-34 Test No. 1 Date 11/28/94  
Company CROSS BAR PETROLEUM INC Zone KRIDER  
Address 151 N. MAIN, STE 630, WICHITA, KS 67202-1407 Elevation 2342  
Co. Rep./Geo. STEVE DAVIS Cont. MURFIN DRILLING #21 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 34 Twp. 27S Rge. 21W Co. FORD State KS

Interval Tested	<u>2485-2615</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>130</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>2480</u>	Drill Collar - 2.25 Ft. Run	<u>150</u>
Bottom Packer Depth	<u>2485</u>	Mud Wt.	<u>9.4</u> lb/Gal.
Total Depth	<u>2615</u>	Viscosity	<u>39</u> Filtrate _____

Tool Open @ 1:25AM Initial Blow STRONG BLOW. BOTTOM OF BUCKET IN 15 SECONDS.  
0  
Final Blow STRONG BLOW. BOTTOM OF BUCKET IN 2-1/2 MINUTES.

Recovery - Total Feet 125 Flush Tool? NO

Rec. 125 Feet of DRILLING MUD.  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of 0  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 99 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides 1,000 ppm Recovery Chlorides 1,000 ppm System

(A) Initial Hydrostatic Mud 1336.0 PSI AK1 Recorder No. 13788 Range 4650

(B) First Initial Flow Pressure 120.9 PSI @ (depth) 2612 w / Clock No. 22992

(C) First Final Flow Pressure 127.9 PSI AK1 Recorder No. 10248 Range 4400

(D) Initial Shut-in Pressure 217.4 PSI @ (depth) 2607 w / Clock No. 23858

(E) Second Initial Flow Pressure 139.5 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

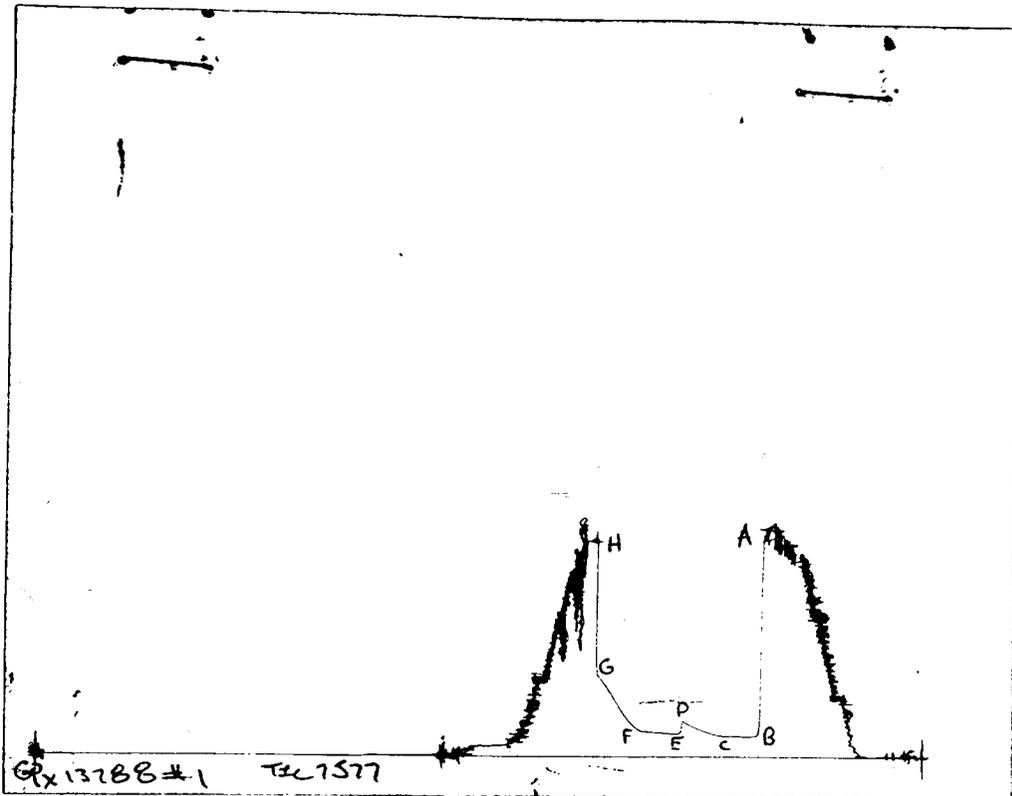
(F) Second Final Flow Pressure 158.1 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

(G) Final Shut-in Pressure 506.7 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 1300.5 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative GARY PEVOTEAUX

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1186	1336.0
(B) FIRST INITIAL FLOW PRESSURE	104	120.9
(C) FIRST FINAL FLOW PRESSURE	114	127.9
(D) INITIAL CLOSED-IN PRESSURE	207	217.4
(E) SECOND INITIAL FLOW PRESSURE	119	139.5
(F) SECOND FINAL FLOW PRESSURE	130	158.1
(G) FINAL CLOSED-IN PRESSURE	481	506.7
(H) FINAL HYDROSTATIC MUD	1161	1300.5

## 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:	940626	Analyzed:	12/05/94
Sample From:	T.K.O. #1-34 DST 5	Pressure:	
Producer:	Cross Bar Petroleum	Temperature:	
Date:		Location:	34-27S-21W
Time:		County:	Ford
Sampler:		State:	Kansas
Source:		Formation:	St. Louis B

	Mole %	GPM
Helium	He: 0.329	0.000
Oxygen	O2:	
Nitrogen	N2: 8.677	0.000
Carbon Dioxide	CO2: 0.228	0.000
Methane	C1: 82.439	0.000
Ethane	C2: 4.842	1.295
Propane	C3: 1.879	0.518
Iso Butane	iC4: 0.320	0.105
Normal Butane	nC4: 0.532	0.168
Iso Pentane	iC5: 0.129	0.047
Normal Pentane	nC5: 0.136	0.049
Hexanes Plus	C6+: 0.489	0.213
	TOTAL: 100.000	2.395
	Z Fact: 0.9977	
	SP.GR.: 0.6643	
	BTU (SAT): 1015.8 @ 14.73 psia	
	BTU (DRY): 1033.8 @ 14.73 psia	
	OCTANE RATING: 115.0	

COMMENTS: Helium content calculated based on Nitrogen

## NATURAL GAS ANALYSIS REPORT

Sampled by:  
Trilobite Testing, L.L.C.  
Hays, Kansas  
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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: 940625

Analyzed: 12/05/94

Caraway Analytical, 05-Dec-94

Sample From: T.K.O. #1-34 DST 4  
Producer: Cross Bar Petroleum  
Date:  
Time:  
Sampler:  
Source:

Pressure:  
Temperature:  
Location: 34-27S-21W  
County: Ford  
State: Kansas  
Formation: Mississippi

	Mole %	GPM
Helium	He: 0.330	0.000
Oxygen	O2:	
Nitrogen	N2: 8.721	0.000
Carbon Dioxide	CO2: 0.187	0.000
Methane	C1: 82.600	0.000
Ethane	C2: 4.774	1.277
Propane	C3: 1.824	0.503
Iso Butane	iC4: 0.313	0.102
Normal Butane	nC4: 0.514	0.162
Iso Pentane	iC5: 0.151	0.055
Normal Pentane	nC5: 0.130	0.047
Hexanes Plus	C6+: 0.456	0.199

TOTAL: 100.000 2.345

Z Fact: 0.9977

SP.GR.: 0.6623

BTU (SAT): 1013.0 @ 14.73 psia

BTU (DRY): 1030.9 @ 14.73 psia

OCTANE RATING: 115.1

COMMENTS: Helium content calculated based on Nitrogen  
Sample contained liquid

# TRILOBITE TESTING, L.L.C.

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## Drill-Stem Test Data

Well Name T.K.O. #1-34 Test No. 2 Date 11/30/94  
Company CROSS BAR PETROLEUM INC Zone LANS 'A'  
Address 151 N. MAIN, STE 630, WICHITA, KS 67202-1407 Elevation 2342  
Co. Rep./Geo. STEVE DAVIS Cont. MURFIN DRILLING #21 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 34 Twp. 27S Rge. 21W Co. FORD State KS

Interval Tested 4282-4300 Drill Pipe Size 4.5" XH  
Anchor Length 18 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 4277 Drill Collar - 2.25 Ft. Run 150  
Bottom Packer Depth 4282 Mud Wt. 9.0 lb/Gal.  
Total Depth 4300 Viscosity 45 Filtrate 12.0

Tool Open @ 10:11AM Initial Blow FAIR BLOW. (2" INCREASING TO 12").

Final Blow FAIR BLOW. (1" INCREASING TO 10")

Recovery - Total Feet 375 Flush Tool? NO

Rec. 375 Feet of MUDDY WATER. 96% WATER; 4% MUD.  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BH 13 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW 0.13 @ 66 °F Chlorides 94,000 ppm Recovery Chlorides 6,000 ppm System

(A) Initial Hydrostatic Mud 2026.6 PSI AK1 Recorder No. 13788 Range 4650

(B) First Initial Flow Pressure 35.6 PSI @ (depth) 4297 w / Clock No. 22992

(C) First Final Flow Pressure 114.1 PSI AK1 Recorder No. 10248 Range 4400

(D) Initial Shut-in Pressure 1426.5 PSI @ (depth) 4292 w / Clock No. 23858

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

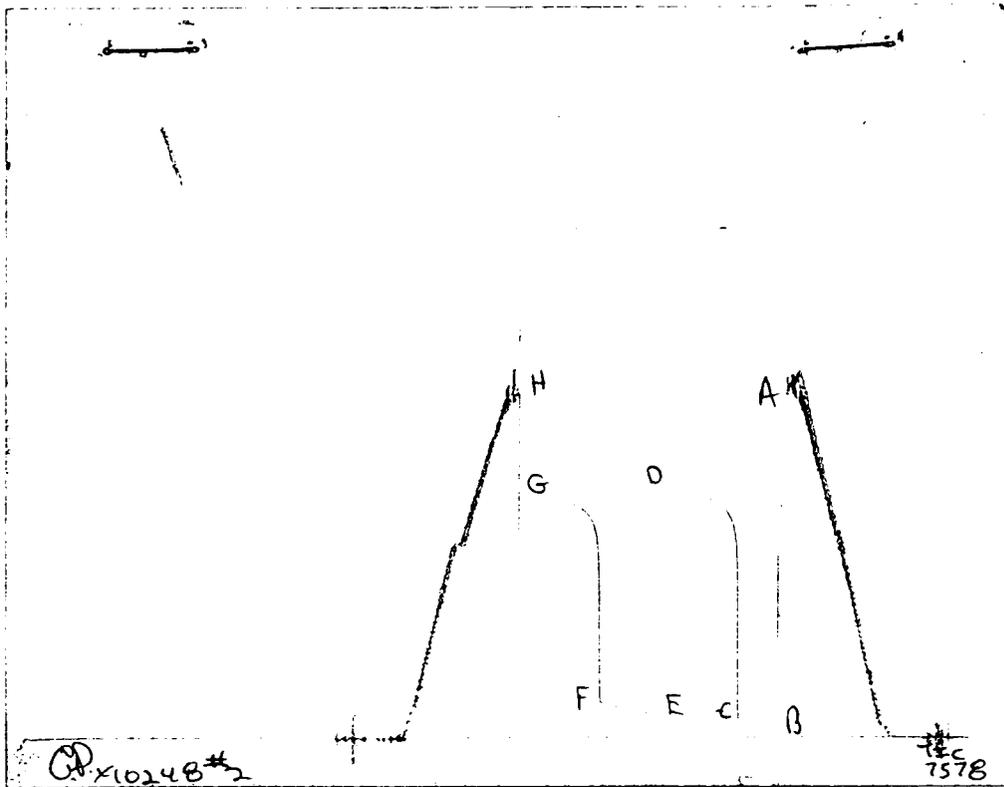
(F) Second Final Flow Pressure 206.8 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

(G) Final Shut-in Pressure 1404.6 PSI Initial Opening 30 Final Flow 45

(H) Final Hydrostatic Mud 1978.3 PSI Initial Shut-in 60 Final Shut-in 60

Our Representative GARY PEVOTEAUX

# CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2019	2026.6
(B) FIRST INITIAL FLOW PRESSURE	21	35.6
(C) FIRST FINAL FLOW PRESSURE	110	114.1
(D) INITIAL CLOSED-IN PRESSURE	1421	1426.5
(E) SECOND INITIAL FLOW PRESSURE	116	116.4
(F) SECOND FINAL FLOW PRESSURE	198	206.8
(G) FINAL CLOSED-IN PRESSURE	1404	1404.6
(H) FINAL HYDROSTATIC MUD	1975	1978.3

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## Drill-Stem Test Data

Well Name T.K.O. #1-34 Test No. 3 Date 12/01/94  
Company CROSS BAR PETROLEUM INC Zone LANS  
Address 151 N. MAIN, STE 630, WICHITA, KS 67202-1407 Elevation 2342  
Co. Rep./Geo. STEVE DAVIS Cont. MURFIN DRILLING #21 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 34 Twp. 27S Rge. 21W Co. FORD State KS

Interval Tested	<u>4353-4385</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>32</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>4348</u>	Drill Collar - 2.25 Ft. Run	<u>150</u>
Bottom Packer Depth	<u>4353</u>	Mud Wt.	<u>8.9</u> lb/Gal.
Total Depth	<u>4385</u>	Viscosity	<u>49</u> Filtrate <u>12.0</u>

Tool Open @ 4:51PM Initial Blow STRONG BLOW. BOTTOM OF BUCKET IN 1 MINUTE.

Final Blow STRONG BLOW. BOTTOM OF BUCKET IN 1 MINUTE.

Recovery - Total Feet 2420 Flush Tool? NO

Rec. 120 Feet of WATER AND MUD. 40% WATER, 60% MUD.  
Rec. 2300 Feet of SALT WATER. 100% WATER  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 113 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW 0.12 @ 64 °F Chlorides 99,000 ppm Recovery Chlorides 6,000 ppm System

(A) Initial Hydrostatic Mud 1995.0 PSI AK1 Recorder No. 13788 Range 4650

(B) First Initial Flow Pressure 312.4 PSI @ (depth) 4282 w / Clock No. 22992

(C) First Final Flow Pressure 842.5 PSI AK1 Recorder No. 10248 Range 4400

(D) Initial Shut-in Pressure 1439.6 PSI @ (depth) 4377 w / Clock No. 23858

(E) Second Initial Flow Pressure 947.7 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

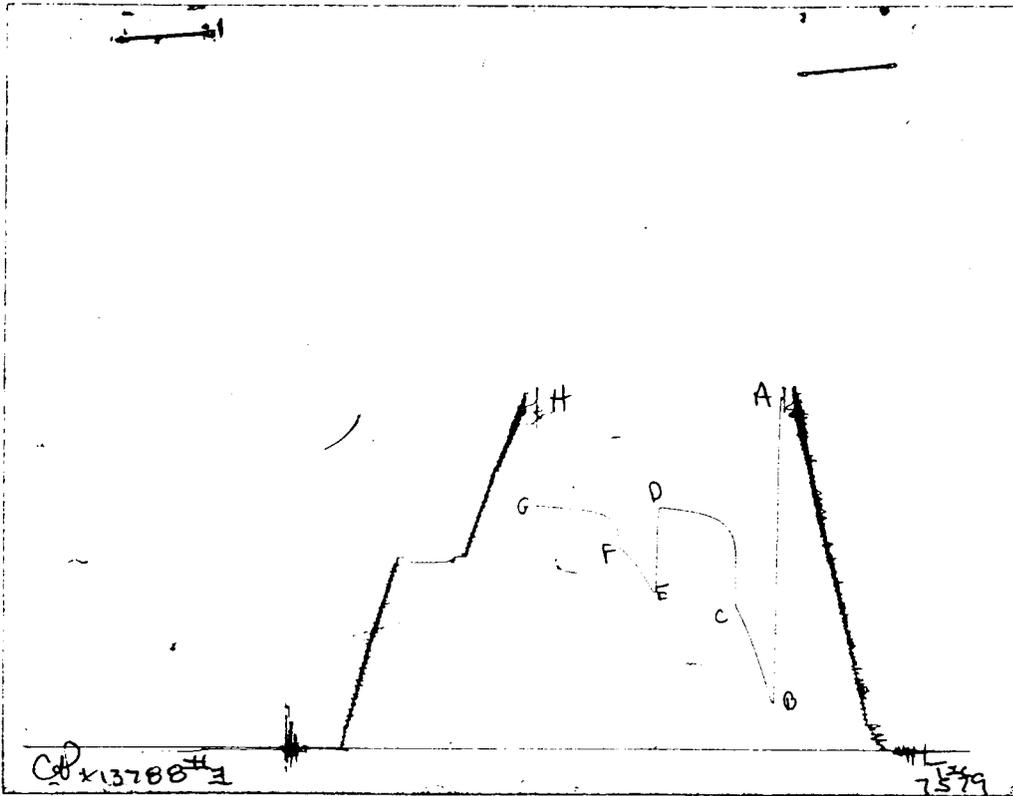
(F) Second Final Flow Pressure 1227.6 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

(G) Final Shut-in Pressure 1445.0 PSI Initial Opening 30 Final Flow 45

(H) Final Hydrostatic Mud 1934.5 PSI Initial Shut-in 60 Final Shut-in 60

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# CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2008	1995.0
(B) FIRST INITIAL FLOW PRESSURE	270	312.4
(C) FIRST FINAL FLOW PRESSURE	826	842.5
(D) INITIAL CLOSED-IN PRESSURE	1384	1439.6
(E) SECOND INITIAL FLOW PRESSURE	894	947.7
(F) SECOND FINAL FLOW PRESSURE	1163	1227.6
(G) FINAL CLOSED-IN PRESSURE	1381	1445.0
(H) FINAL HYDROSTATIC MUD	1955	1934.5

# TRILOBITE TESTING, L.L.C.

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## Drill-Stem Test Data

Well Name T.K.O. #1-34 Test No. 4 Date 12/03/94  
Company CROSS BAR PETROLEUM INC Zone MISSISSIPPI  
Address 151 N. MAIN, STE 630, WICHITA, KS 67202-1407 Elevation 2342  
Co. Rep./Geo. THOMAS BLAIR Cont. MURFIN DRILLING #21 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 34 Twp. 27S Rge. 21W Co. FORD State KS

Interval Tested 4888-4957 Drill Pipe Size 4.5" XH  
Anchor Length 69 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 4883 Drill Collar - 2.25 Ft. Run 150  
Bottom Packer Depth 4888 Mud Wt. 9.2 lb/Gal.  
Total Depth 4957 Viscosity 43 Filtrate 8.8

Tool Open @ 6:43PM Initial Blow STRONG BLOW. GAS TO SURFACE IN MINUTE OR LESS.  
SPRAYED BLACK SULFUR SMELLING MUDDY WATER IN 30 MINUTES (SEE GAS REPORT).  
Final Blow STRONG BLOW. (SEE GAS VOLUME REPORT). CONTINUED SPRAYING BLACK  
SULFUR SMELLING MUDDY WATER.

Recovery - Total Feet 60 Flush Tool? NO

Rec. 4820 Feet of GAS IN PIPE  
Rec. 60 Feet of MUDDY WATER. 65% WATER; 35% MUD.  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 123 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW 0.064 @ 68 °F Chlorides 16,000 ppm Recovery Chlorides 6,000 ppm System

(A) Initial Hydrostatic Mud 2300.5 PSI AK1 Recorder No. 13788 Range 4650

(B) First Initial Flow Pressure 926.9 PSI @ (depth) 4954 w / Clock No. 22992

(C) First Final Flow Pressure 946.6 PSI AK1 Recorder No. 10248 Range 4400

(D) Initial Shut-in Pressure 1461.4 PSI @ (depth) 4949 w / Clock No. 23858

(E) Second Initial Flow Pressure 913.7 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

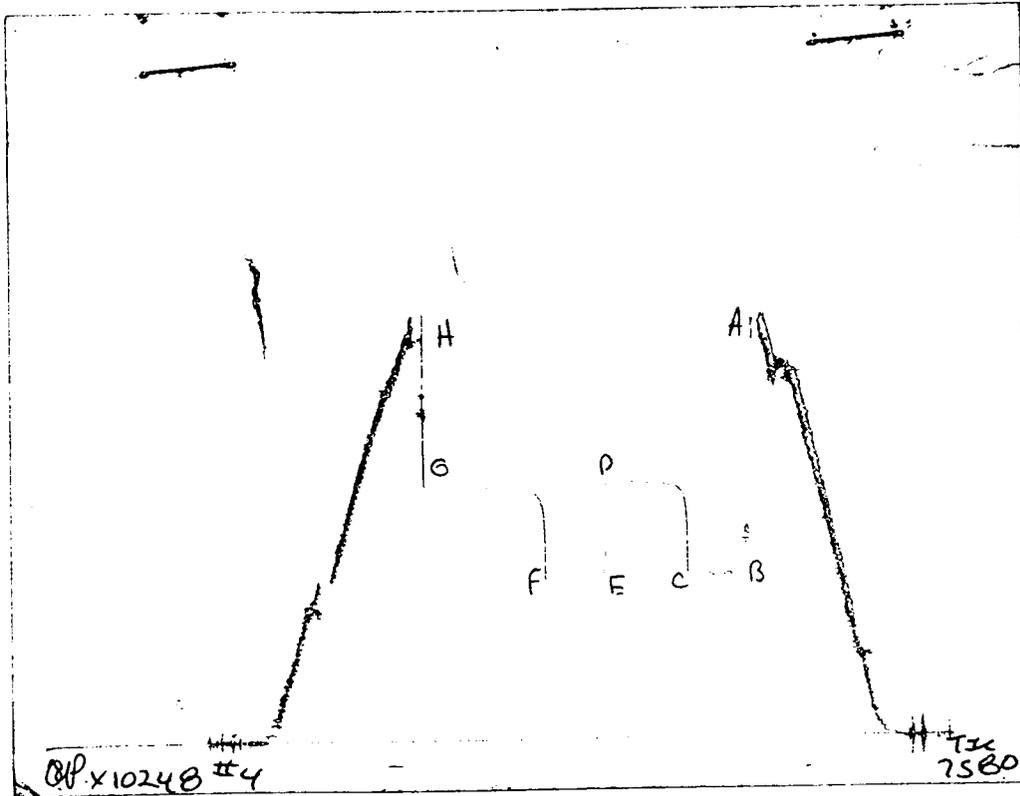
(F) Second Final Flow Pressure 906.0 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

(G) Final Shut-in Pressure 1449.4 PSI Initial Opening 45 Final Flow 45

(H) Final Hydrostatic Mud 2283.9 PSI Initial Shut-in 60 Final Shut-in 90

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# CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2329	2300.5
(B) FIRST INITIAL FLOW PRESSURE	916	926.9
(C) FIRST FINAL FLOW PRESSURE	927	946.6
(D) INITIAL CLOSED-IN PRESSURE	1454	1461.4
(E) SECOND INITIAL FLOW PRESSURE	896	913.7
(F) SECOND FINAL FLOW PRESSURE	890	906.0
(G) FINAL CLOSED-IN PRESSURE	1440	1449.4
(H) FINAL HYDROSTATIC MUD	2276	2283.9



# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name T.K.O. #1-34 Test No. 5 Date 12/04/94  
Company CROSS BAR PETROLEUM INC Zone MISSISSIPPI  
Address 151 N. MAIN, STE 630, WICHITA, KS 67202-1407 Elevation 2342  
Co. Rep./Geo. THOMAS BLAIR Cont. MURFIN DRILLING #21 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 34 Twp. 27S Rge. 21W Co. FORD State KS

Interval Tested 4958-4971 Drill Pipe Size 4.5" XH  
Anchor Length 13 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 4953 Drill Collar - 2.25 Ft. Run 150  
Bottom Packer Depth 4958 Mud Wt. \_\_\_\_\_ 8.8 lb/Gal.  
Total Depth 4971 Viscosity 44 Filtrate 8.8

Tool Open @ 11:48AM Initial Blow STRONG BLOW. GAS TO SURFACE IN 30 SECONDS. (SEE GAS VOLUME REPORT). SPRAYING BLACK SULFUR SMELLING MUDDY WATER AFTER 35 MINUTE  
Final Blow STRONG BLOW (SEE REPORT). CONTINUED SPRAYING MUDDY WATER.

Recovery - Total Feet 270 Flush Tool? NO

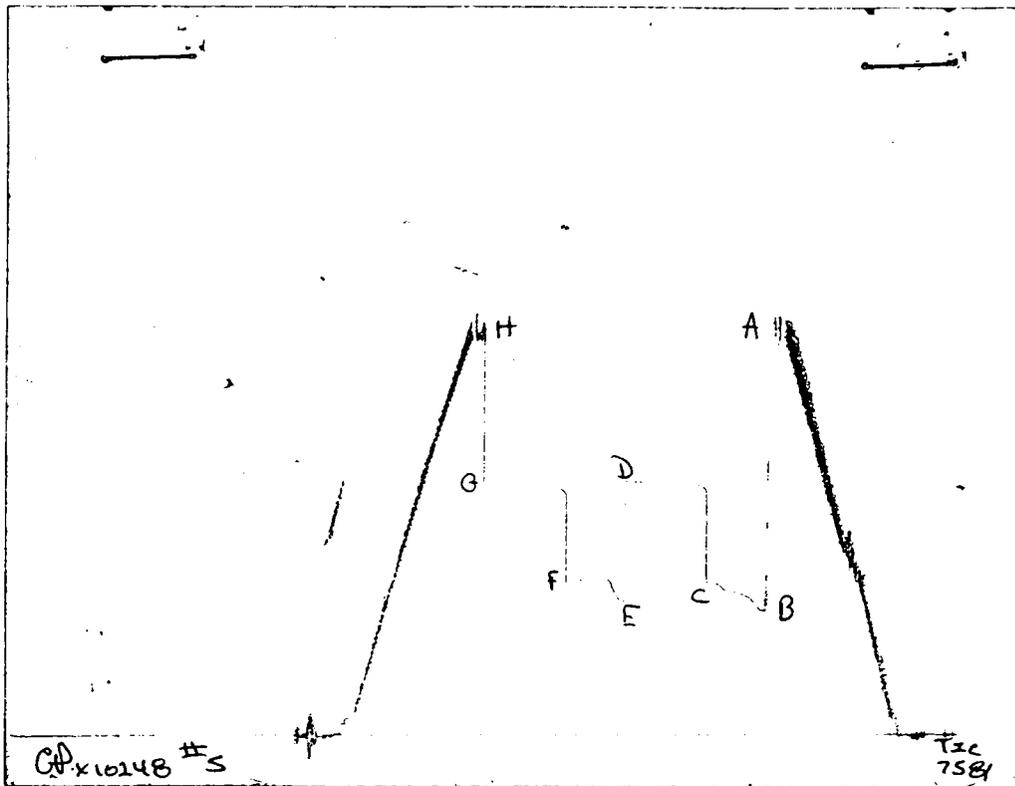
Rec. 4675 Feet of GAS IN PIPE  
Rec. 270 Feet of MUDDY WATER. 97% WATER; 3% MUD.  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 123 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW 0.48 @ 69 °F Chlorides 23,000 ppm Recovery Chlorides 8,000 ppm System

(A) Initial Hydrostatic Mud 2322.5 PSI AK1 Recorder No. 13788 Range 4650  
(B) First Initial Flow Pressure 716.1 PSI @ (depth) 4968 w / Clock No. 22992  
(C) First Final Flow Pressure 880.8 PSI AK1 Recorder No. 10248 Range 4400  
(D) Initial Shut-in Pressure 1451.6 PSI @ (depth) 4963 w / Clock No. 23858  
(E) Second Initial Flow Pressure 768.9 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_  
(F) Second Final Flow Pressure 880.8 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_  
(G) Final Shut-in Pressure 1438.5 PSI Initial Opening 45 Final Flow 45  
(H) Final Hydrostatic Mud 2282.8 PSI Initial Shut-in 60 Final Shut-in 60

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# CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2351	2322.5
(B) FIRST INITIAL FLOW PRESSURE	705	716.1
(C) FIRST FINAL FLOW PRESSURE	883	880.8
(D) INITIAL CLOSED-IN PRESSURE	1460	1451.6
(E) SECOND INITIAL FLOW PRESSURE	771	768.9
(F) SECOND FINAL FLOW PRESSURE	885	880.8
(G) FINAL CLOSED-IN PRESSURE	1451	1438.5
(H) FINAL HYDROSTATIC MUD	2294	2282.8

# GAS VOLUME REPORT

CROSS BAR PETROLEUM INC

T.K.O. #1-34

DST # 5

MIN	PSIG	ORIFICE	MCF/D	MIN	PSIG	ORIFICE	MCF/D
0.5		2	GTS	10	46	1.5	3513
5	38	1.5	3036	20	52	1.5	3871
10	48	1.5	3633	30	57	1.5	4170
20	50	1.5	3752	40	56	1.5	4110
30	51	1.5	3811	45	55	1.5	4051
40	51	1.5	3811				

Remarks:

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

No 7581

Well Name & No. T.K.O. # 1-34 Test No. 5 Date 12-4-94  
 Company CROSS BAR PETL. INC. Zone Tested MISS  
 Address 151N. MAIN SUITE 630 / WICHITA KS. 67202 Elevation 2342 K.B.  
 Co. Rep./Geo. THOMAS BLAIR cont. MUREIN DRUG. #21 Est. Ft. of Pay \_\_\_\_\_  
 Location: Sec. 34 Twp. 27S Rge. 21W Co. FORD state KS.  
 No. of Copies 6 Distribution Sheet Yes \_\_\_\_\_ No \_\_\_\_\_ Turnkey Yes \_\_\_\_\_ No \_\_\_\_\_ Evaluation \_\_\_\_\_

Interval Tested 4958 - 4971 Drill Pipe Size 4 1/2" K.H.  
 Anchor Length 13' Top Choke - 1"  Bottom Choke - 3/4"   
 Top Packer Depth 4953' Hole Size - 7 7/8"  Rubber Size - 6 3/4"   
 Bottom Packer Depth 4958' Wt. Pipe I.D. - 2.7 Ft. Run NONE  
 Total Depth 4971' Drill Collar - 2.25 Ft. Run 150'  
 Mud Wt. 8.8 lb/gal. Viscosity 44 Filtrate B.O.C.C.  
 Tool Open @ 11:48 A.M. Initial Blow Strong blow. (G.I.S. in 30 seconds. See gas volume report) Spraying black sulfur smelling mud. after 35 mins.  
 Final Blow Strong blow (see report) Continued spraying M.W.

Recovery - Total Feet	Feet of Gas in Pipe	Flush Tool?
<u>270</u>	<u>Approx 4,675</u>	<u>No</u>
Rec. <u>270</u> Feet Of <u>M.W.</u>	%gas _____ %oil <u>97</u> %water <u>3</u> %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	

BHT 123 °F Gravity N.A. °API @ \_\_\_\_\_ °F Corrected Gravity N.A. °API  
 RW 0.48 @ 69 °F Chlorides 23,000 ppm Recovery Chlorides 8,000 ppm System  
 (A) Initial Hydrostatic Mud 2351 PSI AK1 Recorder No. 13788 Range 4650  
 (B) First Initial Flow Pressure 705 PSI @ (depth) 4968' w/Clock No. 22992  
 (C) First Final Flow Pressure 883 PSI AK1 Recorder No. 10248 Range 4400  
 (D) Initial Shut-In Pressure 1460 PSI @ (depth) 4963' w/Clock No. 23858  
 (E) Second Initial Flow Pressure 771 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_  
 (F) Second Final Flow Pressure 885 PSI @ (depth) \_\_\_\_\_ w/Clock No. \_\_\_\_\_  
 (G) Final Shut-In Pressure 1451 PSI Initial Opening 45 Test  600  
 (H) Final Hydrostatic Mud 2294 PSI Initial Shut-In 60 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 60 Straddle \_\_\_\_\_  
 Circ. Sub \_\_\_\_\_  
 Sampler \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Other \_\_\_\_\_  
 TOTAL PRICE \$  850<sup>00</sup>

Approved By \_\_\_\_\_  
 Our Representative [Signature]



# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

Well Name T.K.O. #1-34 Test No. 6 Date 12/05/94  
Company CROSS BAR PETROLEUM INC Zone MISSISSIPPI  
Address 151 N. MAIN, STE 630, WICHITA, KS 67202-1407 Elevation 2342  
Co. Rep./Geo. THOMAS BLAIR Cont. MURFIN DRILLING #21 Est. Ft. of Pay \_\_\_\_\_  
Location: Sec. 34 Twp. 27S Rge. 21W Co. FORD State KS

Interval Tested 4980-4994 Drill Pipe Size 4.5" XH  
Anchor Length 14 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 4975 & 4980 Drill Collar - 2.25 Ft. Run 150  
Bottom Packer Depth 4994 Mud Wt. \_\_\_\_\_ 9.1 lb/Gal.  
Total Depth 5100 Viscosity 46 Filtrate 8.8

Tool Open @ 4:57PM Initial Blow STRONG BLOW. GAS TO SURFACE IN 10 MINUTES. (SEE GAS VOLUME REPORT).

Final Blow STRONG BLOW (SEE GAS VOLUME REPORT).

Recovery - Total Feet 660 Flush Tool? NO

Rec. 4320 Feet of GAS IN PIPE  
Rec. 40 Feet of OIL CUT WATERY MUD. 5% OIL; 30% WATER; 65% MUD  
Rec. 185 Feet of MUDDY WATER WITH OIL SPECKS. 78% WATER; 22% MUD.  
Rec. 435 Feet of SALT WATER.  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 126 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW 0.43 @ 66 °F Chlorides 24,000 ppm Recovery Chlorides 7,000 ppm System

(A) Initial Hydrostatic Mud 2310.4 PSI AK1 Recorder No. 10248 Range 4400

(B) First Initial Flow Pressure 65.2 PSI @ (depth) 4984 w / Clock No. 23858

(C) First Final Flow Pressure 187.6 PSI AK1 Recorder No. 13224 Range 4350

(D) Initial Shut-in Pressure 1351.1 PSI @ (depth) 4989 w / Clock No. 27785

(E) Second Initial Flow Pressure 214.7 PSI AK1 Recorder No. 13788 Range 4650

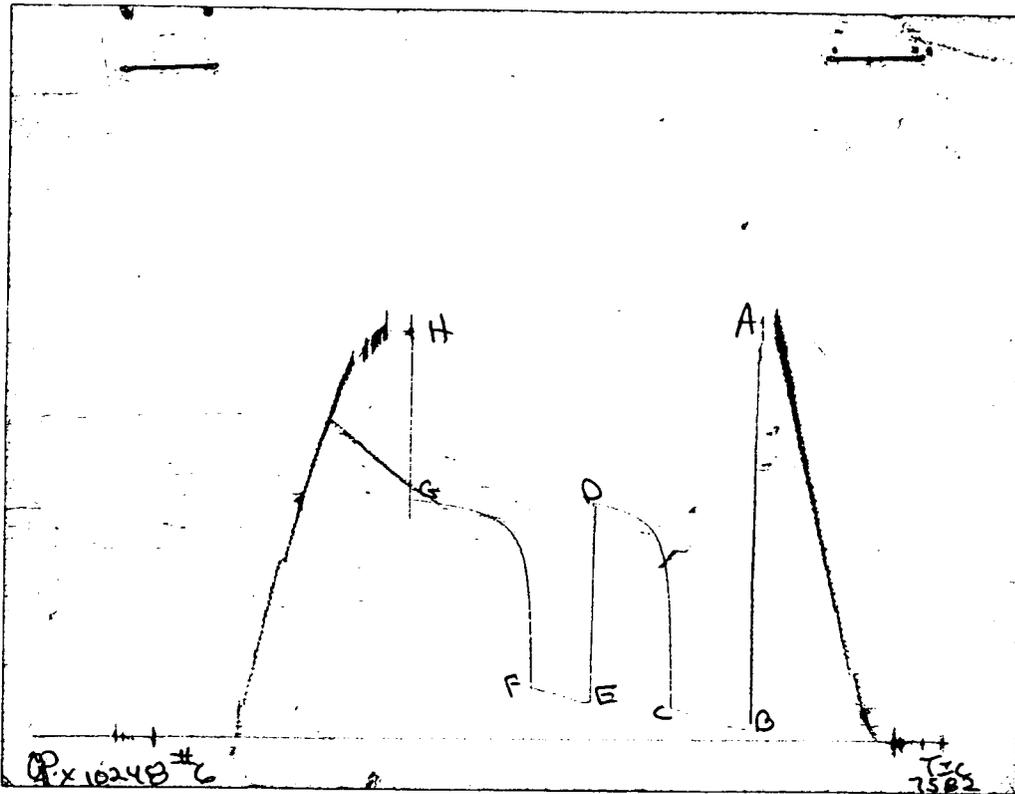
(F) Second Final Flow Pressure 294.5 PSI @ (depth) 5097 w / Clock No. 22992

(G) Final Shut-in Pressure 1364.2 PSI Initial Opening 60 Final Flow 45

(H) Final Hydrostatic Mud 2310.4 PSI Initial Shut-in 60 Final Shut-in 90

Our Representative GARY PEVOTEAUX

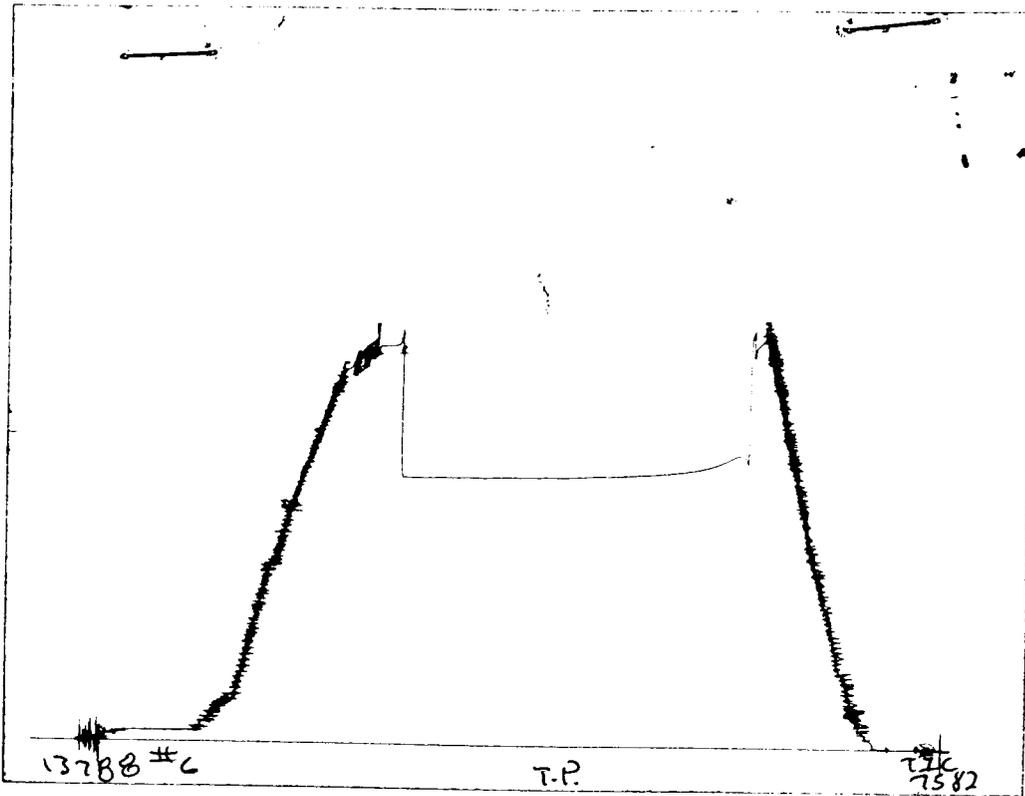
# CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2386	2310.4
(B) FIRST INITIAL FLOW PRESSURE	55	65.2
(C) FIRST FINAL FLOW PRESSURE	175	187.6
(D) INITIAL CLOSED-IN PRESSURE	1344	1351.1
(E) SECOND INITIAL FLOW PRESSURE	198	214.7
(F) SECOND FINAL FLOW PRESSURE	292	294.5
(G) FINAL CLOSED-IN PRESSURE	1360	1364.2
(H) FINAL HYDROSTATIC MUD	2316	2310.4

CHART PAGE



This is an actual photograph of recorder chart

FIELD  
READING

OFFICE  
READING

- (A) INITIAL HYDROSTATIC MUD
- (B) FIRST INITIAL FLOW PRESSURE
- (C) FIRST FINAL FLOW PRESSURE
- (D) INITIAL CLOSED-IN PRESSURE
- (E) SECOND INITIAL FLOW PRESSURE
- (F) SECOND FINAL FLOW PRESSURE
- (G) FINAL CLOSED-IN PRESSURE
- (H) FINAL HYDROSTATIC MUD

# GAS VOLUME REPORT

CROSS BAR PETROLEUM INC

T.K.O. #1-34

DST # 6

MIN	PSIG	ORIFICE	MCF/D	MIN	IN OF WATER	ORIFICE	MCF/D
10		0.5	GTS	10	14	0.25	6.33
12	5.5 PSI	0.5	81.8	20	30	0.25	9.2
20	32" H2O	0.5	35.5	30	24	0.25	8.22
30	12" H2O	0.5	21.9	40	26	0.25	8.56
40	20" H2O	0.25	7.51	45	24	0.25	8.22
50	N/A	0.25	TOOK SAMPLE				
60	N/A	0.25	TOOK SAMPLE				

Remarks: