



KANSAS CORPORATION COMMISSION 1048613  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

June 2009

Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date      Date Reached TD      Completion Date or Recompletion Date

API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

I am the affiant and I hereby certify that 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.

Submitted Electronically

**KCC Office Use ONLY**

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1048613

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems 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 test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> 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

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  
 Flowing    Pumping    Gas Lift    Other (Explain) \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	HOELSCHER FARMS 1-4
Doc ID	1048613

All Electric Logs Run

ARRAY INDUCTION SHALLOW FOCUSSED ELECTRIC LOG
COMPACT PHOTO DENSITY COMPENSATED NEUTRON LOG
MICRO-RESISTIVITY LOG
COMPENSATED SONIC W/ INTEGRATED TRANSIT TIMES

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	HOELSCHER FARMS 1-4
Doc ID	1048613

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	3121'-26'	500 gallons of 28% MCA and 3% MAS followed by produced water	3121'-26'
4	3133'-38'	500 gallons of 28% MCA and 3% MAS followed by produced water	3133'-38'
4	3200'-03'	500 gallons of 28% MCA with 3% MAS followed by produced water	3200'-03'
4	3254'-58'	400 gallons of 15% acetic acid followed by 54 bbls of produced water	3254'-58'
4	3261'-73'	400 gallons of 15% acetic acid followed by 54 bbls of produced water	3261'-73'
4	3288'-94'	400 gallons of 15% acetic acid followed by 54 bbls of produced water	3288'-94'



*Mark Parkinson, Governor  
Thomas E. Wright, Chairman  
Joseph F. Harkins, Commissioner  
Ward Loyd, Commissioner*

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December 23, 2010

TOM FERTAL  
Samuel Gary Jr. & Associates, Inc.  
1515 WYNKOOP, STE 700  
DENVER, CO 80202

Re: ACO1  
API 15-159-22618-00-00  
HOELSCHER FARMS 1-4  
NE/4 Sec.04-18S-10W  
Rice County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office at 303-831-4673.

Respectfully,  
TOM FERTAL



**BASIC**<sup>SM</sup>  
ENERGY SERVICES

1009-AP-445

9/30

PAGE	CUST NO	INVOICE DATE
1 of 1	1003682	09/01/2010
INVOICE NUMBER		
1718 - 90398993		

Pratt (620) 672-1201  
 B SAMUEL GARY JR. & ASSOCIATES  
 I 3111 W 10TH ST, STE 101  
 L GREAT BEND  
 L KS US 67530  
 T  
 O ATTN:

J LEASE NAME Hoelscher Farms 1-4  
 O LOCATION  
 B COUNTY Rice  
 S STATE KS  
 I JOB DESCRIPTION Cement-New Well Casing/Pi  
 T  
 E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40224735	20920		Net - 30 days	10/01/2010

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<b>For Service Dates: 08/31/2010 to 08/31/2010</b>				
0040224735				
171802270A Cement-New Well Casing/Pi 08/31/2010				
5 1/2" Longstring				
60/40 POZ	75.00	EA	7.80	585.02 T
50/50 POZ	150.00	EA	7.15	1,072.53 T
Cello-flake	37.00	EA	2.41	88.99 T
Calcium Chloride	252.00	EA	0.68	172.00 T
Cal-Set	750.00	EA	0.49	365.64 T
FLA-322	121.00	EA	4.88	589.89 T
Cement Gel	252.00	EA	0.16	40.95 T
Gilsonite	1,125.00	EA	0.44	489.95 T
Latch Down Plug & Baffle 5 1/2" (Blue)	1.00	EA	260.01	260.01
Auto Fill Float Shoe 5 1/2" (Blue)	1.00	EA	234.01	234.01
Turbolizer 5 1/2" (Blue)	8.00	EA	71.50	572.02
CS-1L KCL Substitute	4.00	EA	22.75	91.00 T
Super Flush II	500.00	EA	0.99	497.26 T
Unit Mileage Charge-Pickups, Vans & Cars	75.00	HR	2.76	207.19
Heavy Equipment Mileage	150.00	MI	4.55	682.52
Proppant and Bulk Delivery Charges	716.00	MI	1.04	744.66
Depth Charge 3001-4000'	1.00	HR	1,404.05	1,404.05
Blending & Mixing Service Charge	225.00	MI	0.91	204.76
Casing Swivel Rental	1.00	EA	130.00	130.00
Plug Container Utilization Charge	1.00	EA	162.50	162.50
Service Supervisor	1.00	HR	113.75	113.75

DRLG  COMP  W/O  LOE  
 AFE # \_\_\_\_\_  
 ACCT. # 8100-138  
 APPROVED BY KRS

RECEIVED  
 SEP 16 2010  
 SAMUEL GARY JR.  
 & ASSOCIATES, INC.

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	8,708.70
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	291.51
PO BOX 841903	PO BOX 10460	INVOICE TOTAL	9,000.21
DALLAS, TX 75284-1903	MIDLAND, TX 79702		



**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61  
P.O. Box 8613  
Pratt, Kansas 67124  
Phone 620-672-1201

FIELD SERVICE TICKET  
1718 02270 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB: 8-31-10		DISTRICT: KANSAS		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/>		PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/>		CUSTOMER ORDER NO.:	
CUSTOMER: Samuel Gary JR + ASSC. INC.				LEASE: Hoelscher # 1-4 WELL NO.					
ADDRESS:				COUNTY: Rice 4-14-10		STATE: KANSAS			
CITY:		STATE:		SERVICE CREW: A. Werth, J. Melson, T. White					
AUTHORIZED BY:				JOB TYPE: 5 1/2" L.S. <span style="float: right;">C.N.W.</span>					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM/PM	TIME
28443 P.U.	1						8-31-10	PM	6:00
33708-20920	1						8-31-10	AM	9:20
19959-21010	1						8-31-10	AM	7:30
							8-31-10	AM	7:30
							8-31-10	PM	4:30
						MILES FROM STATION TO WELL: 7.5 miles			

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: \_\_\_\_\_  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP103	60/40 P02		75-SK		\$ 900.00
CP104	56/50 P02		150-SK		\$ 1650.00
CC102	cell FLAKE		37-lb		\$ 136.90
CC109	Calcium Chloride		252-lb		\$ 264.60
CC113	cal. gel		750-lb		\$ 562.50
CC129	FIA-322		121-lb		\$ 907.50
CC200	Cement Gel		252-lb		\$ 63.00
CC201	Bilsomite		1125-lb		\$ 753.75
CF607	Latch down Plug + Baffle 5/2" Blue	1-en			\$ 400.00
CF1251	Auto fill Float Shoe 5/2" Blue	1-en			\$ 360.00
CF1651	TURBOLIZER 5/2" Blue	8-en			\$ 880.00
CF704	CS-16 KCL Sub	4-gal			\$ 140.00
CC155	super flush II		500-gal		\$ 765.00
SUB TOTAL:					DLS

CHEMICAL / ACID DATA:


SERVICE & EQUIPMENT %TAX ON \$  
MATERIALS %TAX ON \$

TOTAL

SERVICE REPRESENTATIVE: *Allen F. Ward*

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *[Signature]*

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.





Customer Samuel Gary JR & ASSC INC.		Lease No.		Date 8-31-10	
Lease Hoelscher Farms		Well # 1-4			
Field Order # 02270A	Station Pratt	Casing 5/2"	Depth 3358	County Rice	State KANS
Type Job 5/2" L.S.		Formation cnw	TD 2359	Legal Description 4-18-10	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 5/2"	Tubing Size	Shots/Ft		Acid 12-BBL super flush II	RATE	PRESS	ISIP	
Depth 3357	Depth	From	To	Pre Pad 25 SKs 60-40	Max		5 Min. 12#	
Volume 17851	Volume	From	To	Pad 150 SKs 50/50	Min		10 Min. 13.8#	
Max Press 1500+	Max Press	From	To	Frac 50 SKs Plug	Avg		15 Min. 12# + 13.8#	
Well Connection P.C.	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth 3335	Packer Depth	From	To	Flush Disp 2% KCL	Gas Volume		Total Load	

Customer Representative Kurt Strube			Station Manager scotty			Treater Allen F. Worth		
Service Units	28443	33208	20920	19959	21010			
Driver Names	Worth	Joe	melson	Terry	Whitham			

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
9:20 AM					on loc. Discuss Safety, Setup Plan
10:10					Rig Laying down Drill Collars out of Hole Lay down Kelly. Rig up To Run 5/2" casing. 15.5#
11:00					Start 5/2 casing shoe joint 22.15 w/ Auto Fill Float shoe latch down Baffle in collar cent-1-3-5-7-9-11-13-15
12:45 PM					TAG TD @ 2359' Hookup + CIR + Rotate Pipe (wait on water tek)
2:35	1500+		12	5	Pump 12 BBL super flush II
				5	Pump 5 BBL H <sub>2</sub> O
			9	5	Mix + pump 25 SKs 60/40 scavenger RH
			41	5	Mix + pump 150 SKs 50/50 20 13.8#
3:30				6	Finish mix - wash out pump + line Drop Latch Down Plug, start Disp
				5	caught lift PST 50 BBLs out
3:15	1500+ 0#		79	3	Plug down Release PST OK.
					Plug RH + MH w/ 50 SKs 60/40
					Job complete
4:30					Thanks Allen Joe Terry



PAGE 1 of 1	CUST NO 1003682	INVOICE DATE 09/01/2010
INVOICE NUMBER <b>1718 - 90398993</b>		

Pratt (620) 672-1201  
 B SAMUEL GARY JR. & ASSOCIATES  
 I 3111 W 10TH ST, STE 101  
 L GREAT BEND  
 L KS US 67530  
 T  
 O ATTN:

J LEASE NAME Hoelscher Farms 1-4  
 O LOCATION  
 B COUNTY Rice  
 S STATE KS  
 I JOB DESCRIPTION Cement-New Well Casing/Pi  
 T  
 E JOB CONTACT

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DRLG  COMP  W/O  LOE  
 AFE # \_\_\_\_\_  
 ACCT. # 8100-138  
 APPROVED BY KAS

RECEIVED  
 SEP 16 2010  
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 & ASSOCIATES, INC.

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PO BOX 841903	PO BOX 10460	INVOICE TOTAL	9,000.21
DALLAS, TX 75284-1903	MIDLAND, TX 79702		



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PRESSURE PUMPING & WIRELINE

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P.O. Box 8613  
Pratt, Kansas 67124  
Phone 620-672-1201

**FIELD SERVICE TICKET**  
1718 02270 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB <b>8-31-10</b>		DISTRICT <b>KANSAS</b>		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO. _____		
CUSTOMER <b>Samuel Gray Jr &amp; Assoc. Inc.</b>		LEASE <b>Hoelscher</b> # <b>1-4</b> WELL NO. _____				
ADDRESS _____		COUNTY <b>Rice</b> <b>4-18-10</b>		STATE <b>KANSAS</b>		
CITY _____ STATE _____		SERVICE CREW <b>A. Worth, J. Nelson, T. White</b>				
AUTHORIZED BY _____		JOB TYPE <b>5/8" L.S.</b>				
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED <b>8-31-10</b> DATE <b>8-31-10</b> TIME <b>6:00</b>
<b>28443</b>	<b>1</b>					ARRIVED AT JOB <b>8-31-10</b> TIME <b>9:20</b>
<b>33708-20920</b>	<b>1</b>					START OPERATION <b>8-31-10</b> TIME <b>9:30</b>
<b>19959-21010</b>	<b>1</b>					FINISH OPERATION <b>8-31-10</b> TIME <b>11:30</b>
						RELEASED <b>8-31-10</b> TIME <b>4:30</b>
						MILES FROM STATION TO WELL <b>75 miles</b>

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED \_\_\_\_\_  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP103	60/40 Poz		7.5-SK		\$ 900.00
CP104	50/50 Poz		150-SK		\$ 1650.00
CC102	cell FIAKE		37-lb		\$ 136.90
CC109	calcium chloride		252-lb		\$ 264.00
CC113	cal-set		750-lb		\$ 562.50
CC129	FIA-322		121-lb		\$ 907.50
CC200	cement gel		252-lb		\$ 63.00
CC201	cellonite		1125-lb		\$ 753.25
CF607	Latch down Plug + Baffle 5/2 Blue	1-en			\$ 400.00
CF1231	Auto Fill Float Shoe 5/2 Blue	1-en			\$ 360.00
CF1651	TURBOLIZER 5/2 Blue	2-en			\$ 800.00
CF709	CS-16, KCL sub	4-gal			\$ 140.00
CC133	super flush IF	500-gal			\$ 765.00

SUB TOTAL **DLS**

SERVICE & EQUIPMENT	%TAX ON \$
MATERIALS	%TAX ON \$

TOTAL

CHEMICAL / ACID DATA			

SERVICE REPRESENTATIVE *Allen Howard*

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY *[Signature]*

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

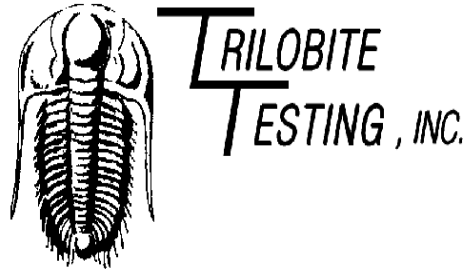


Customer Samuel Gary JR + ASSC INC.		Lease No.		Date 8-31-10	
Lease Hoelscher Farms		Well # 1-4			
Field Order # 02270A	Station Pratt	Casing 5/2"	Depth 3378	County Rice	State KANS
Type Job 5/2 L.S.	Formation COW	TO 3259		Legal Description 4-18-10	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 5/2"	Tubing Size	Shots/Ft		Acid 12- BBI super	RATE	PRESS	ISIP	
Depth 3357	Depth	From	To	Pre Pad 25 SKs 60-40	Max		5 Min.	
Volume 1100'	Volume	From	To	Pad. 150 SKs 50/50ppz @ 13.8#	Min		10 Min.	
Max Press # 1500	Max Press	From	To	Frac 30 SKs Plug	Avg		15 Min.	
Well Connection P.C.	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth 3355	Packer Depth	From	To	Flush Disp 2% KCL	Gas Volume		Total Load	

Customer Representative Burt Strube			Station Manager scotty			Treater Allen F. Wirth		
Service Units 28442	33208	20920	19959	21010				
Driver Names A Wirth	Joe	melson	Terry	Whitham				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
9:20 AM					arr loc. Discuss Safety, Setup Plans, Rig Laying down Drill Collars out of Hole Lay down Kelly. Rig up To Run 5/2" casing. 15.5#
10:10					Start 5/2 casing shoe joint 2215 w/ Auto Fill Float Shoe Latch Down Baffle in collar
11:00					Cent-1-3-5-7-9-11-13-15
12:45 PM					Tag TD @ 3359' Hookup + CIR + Rotate Pipe (wait on water tank)
2:35	1500+		12	5	Pump 12 BBLs superfuch D
				5	Pump 5 BBLs H <sub>2</sub> O
			9	5	Mix + pump 25 SKs 60/40 scavenger
				5	Mix + pump 150 SKs 50/50ppz @ 13.8#
			41		Finish mix - wash out pump line
3:20				6	Drop Latch Down Plug, start Disp
				5	caught lift PST 250 BBLs out
3:15	1500+ 0#		79	3	Plug down
					Release PST OK.
					Plug RH + MH w/ 50 SKs 60/40
					Job complete
4:30					Thanks Allen Joe Terry



## DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr & Associates, Inc**

1515 Wynkoop  
Ste 700

ATTN: Tom Fertal

**4-18s-10w**

**Hoelscher Farms #1-4**

Start Date: 2010.08.29 @ 13:13:20

End Date: 2010.08.29 @ 20:39:20

Job Ticket #: 35809                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Samuel Gary Jr & Associates, Inc

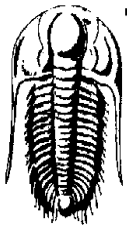
Hoelscher Farms #1-4

4-18s-10w

DST # 1

Lower Lansing

2010.08.29



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Samuel Gary Jr & Associates, Inc

**Hoelscer Farms #1-4**

1515 Wynkoop  
Ste 700

**4-18s-10w**

Job Ticket: 35809

**DST#: 1**

ATTN: Tom Fertal

Test Start: 2010.08.29 @ 13:13:20

## GENERAL INFORMATION:

Formation: **Lower Lansing**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:45:20

Time Test Ended: 20:39:20

Test Type: Conventional Bottom Hole

Tester: Jeff Brown

Unit No: 44

**Interval: 3124.00 ft (KB) To 3230.00 ft (KB) (TVD)**

Reference Elevations: 1802.00 ft (KB)

Total Depth: 3230.00 ft (KB) (TVD)

1792.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8321 Inside**

Press@RunDepth: 76.42 psig @ 3127.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.08.29

End Date:

2010.08.29

Last Calib.: 2010.08.29

Start Time: 13:13:21

End Time:

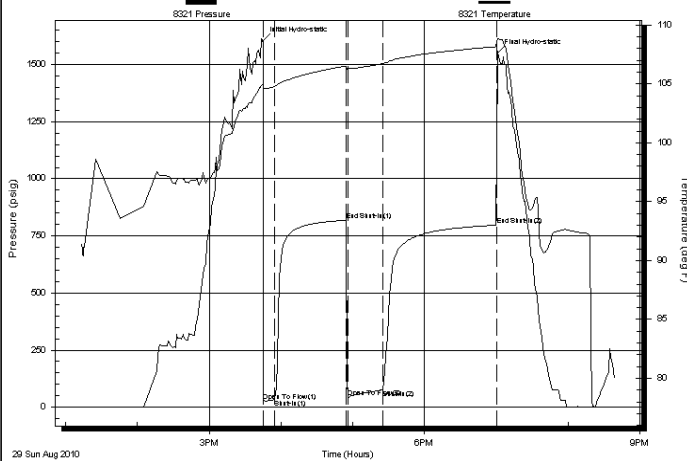
20:39:20

Time On Btm: 2010.08.29 @ 15:44:50

Time Off Btm: 2010.08.29 @ 19:01:20

**TEST COMMENT:** IFP-Strong blow BOB in 2 1/2 min  
IS-Dead no blow back  
FFP-Strong blow BOB in 45 sec  
FSI-Weak blow back built to 2 in Died back to 1/4 in

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1604.59	104.96	Initial Hydro-static
1	26.97	104.66	Open To Flow (1)
10	34.86	104.80	Shut-In(1)
70	818.43	106.51	End Shut-In(1)
71	42.98	106.32	Open To Flow (2)
100	76.42	106.71	Shut-In(2)
195	797.29	108.16	End Shut-In(2)
197	1551.27	108.86	Final Hydro-static

Recovery

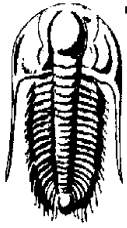
Length (ft)	Description	Volume (bbl)
173.00	OCWGM5%M5%W35%G55%O	2.43
0.00	1825 GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (MMcf/d)







**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Samuel Gary Jr & Associates, Inc  
1515 Wynkoop  
Ste 700  
ATTN: Tom Fertal

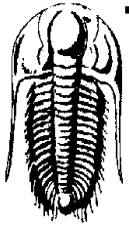
**Hoelscer Farms #1-4**  
**4-18s-10w**  
Job Ticket: 35809      **DST#: 1**  
Test Start: 2010.08.29 @ 13:13:20

**Tool Information**

Drill Pipe:	Length: 3103.00 ft	Diameter: 3.80 inches	Volume: 43.53 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 44000.00 lb
			<u>Total Volume: 43.53 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 29000.00 lb
Depth to Top Packer:	3124.00 ft			Final 30000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	106.00 ft			
Tool Length:	134.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3097.00	
Shut In Tool	5.00			3102.00	
Hydraulic tool	5.00			3107.00	
Jars	5.00			3112.00	
Safety Joint	3.00			3115.00	
Packer	4.00			3119.00	28.00      Bottom Of Top Packer
Packer	5.00			3124.00	
Stubb	1.00			3125.00	
Perforations	2.00			3127.00	
Recorder	0.00	8321	Inside	3127.00	
Recorder	0.00	8672	Outside	3127.00	
Change Over Sub	1.00			3128.00	
Drill Pipe	93.00			3221.00	
Change Over Sub	1.00			3222.00	
Perforations	5.00			3227.00	
Bullnose	3.00			3230.00	106.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>134.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Samuel Gary Jr & Associates, Inc

**Hoelscher Farms #1-4**

1515 Wynkoop  
Ste 700

**4-18s-10w**

Job Ticket: 35809

**DST#: 1**

ATTN: Tom Fertal

Test Start: 2010.08.29 @ 13:13:20

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 41 deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 50.00 sec/l	Cushion Volume: bbl	
Water Loss: 12.18 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 7500.00 ppm		
Filter Cake: inches		

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
173.00	OCWGM5%M5%W35%G55%O	2.427
0.00	1825 GIP	0.000

Total Length: 173.00 ft      Total Volume: 2.427 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

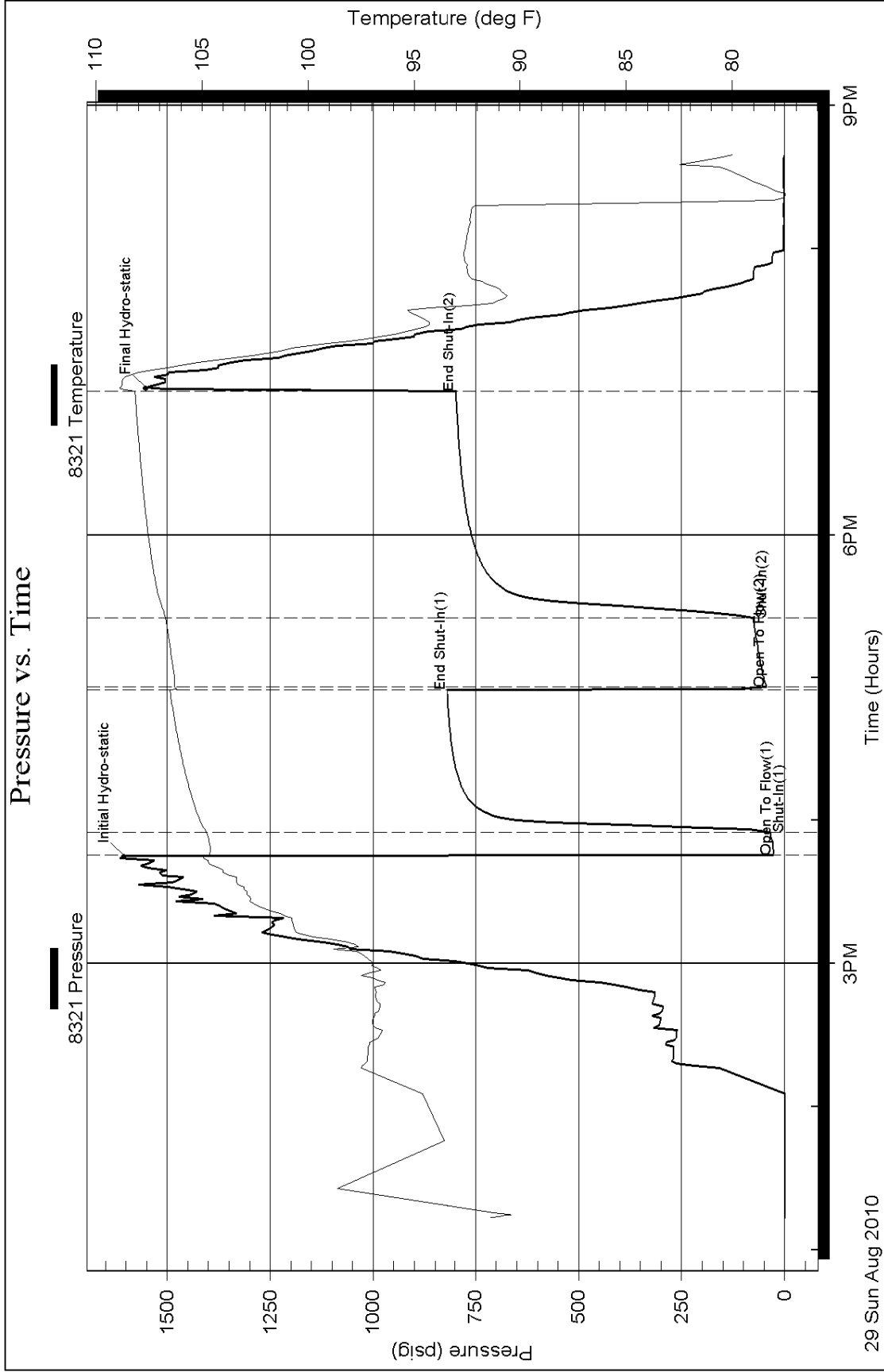
Serial #: 8321

Inside

Samuel Gary Jr & Associates, Inc

4-18s-10w

DST Test Number: 1

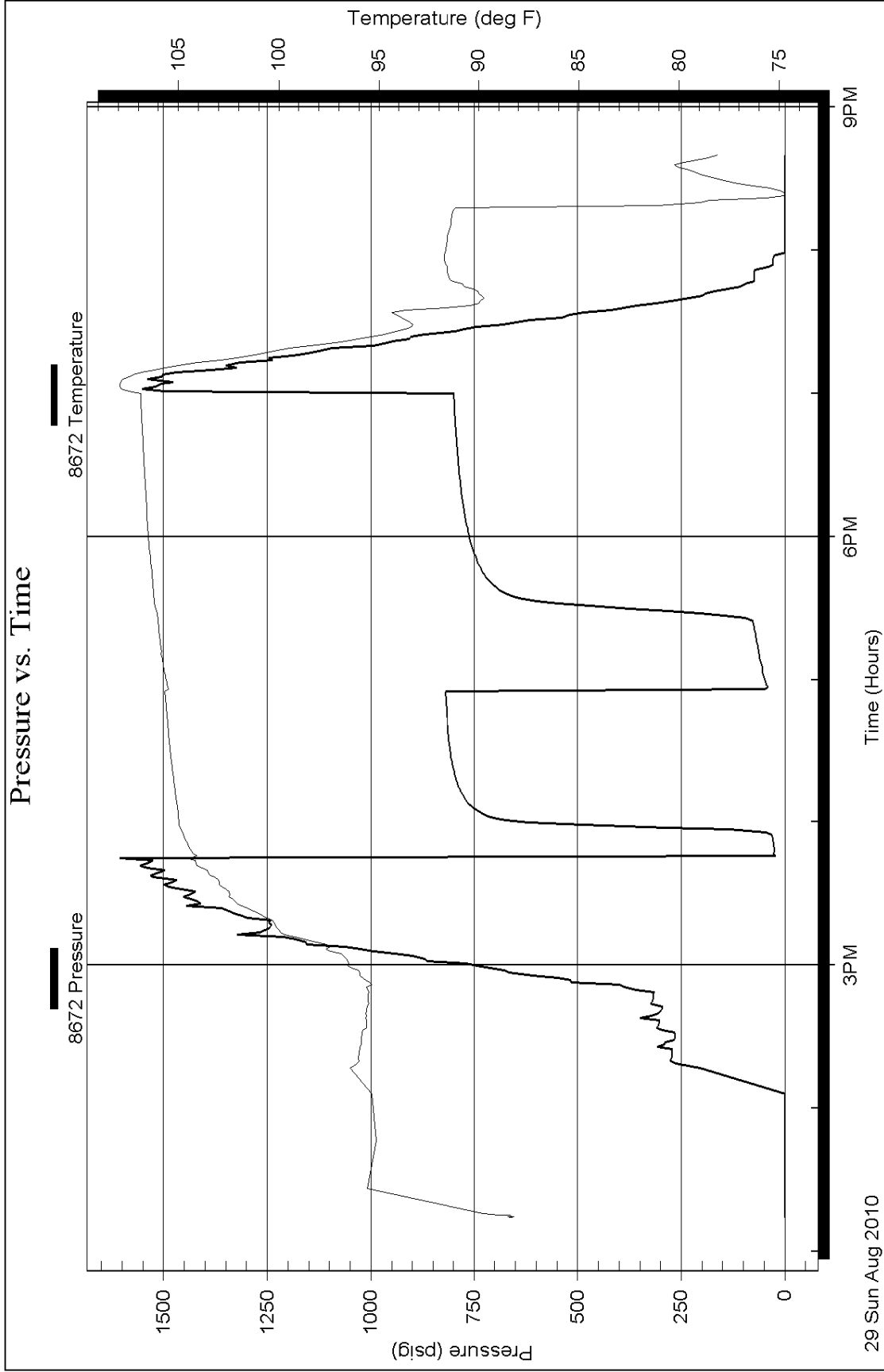


Serial #: 8672

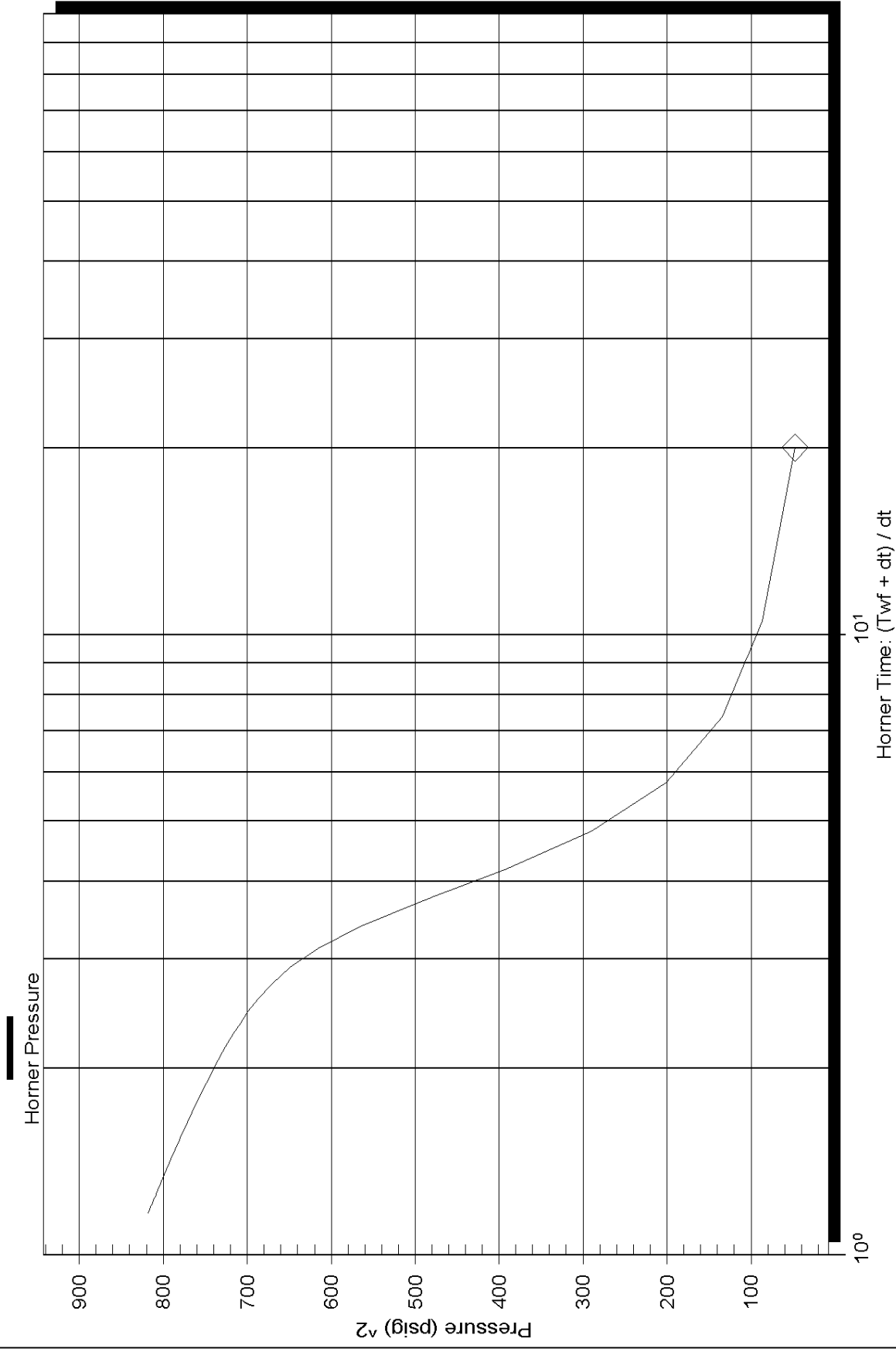
Outside Samuel Gary Jr & Associates, Inc

4-18s-10w

DST Test Number: 1



### Horner Plot

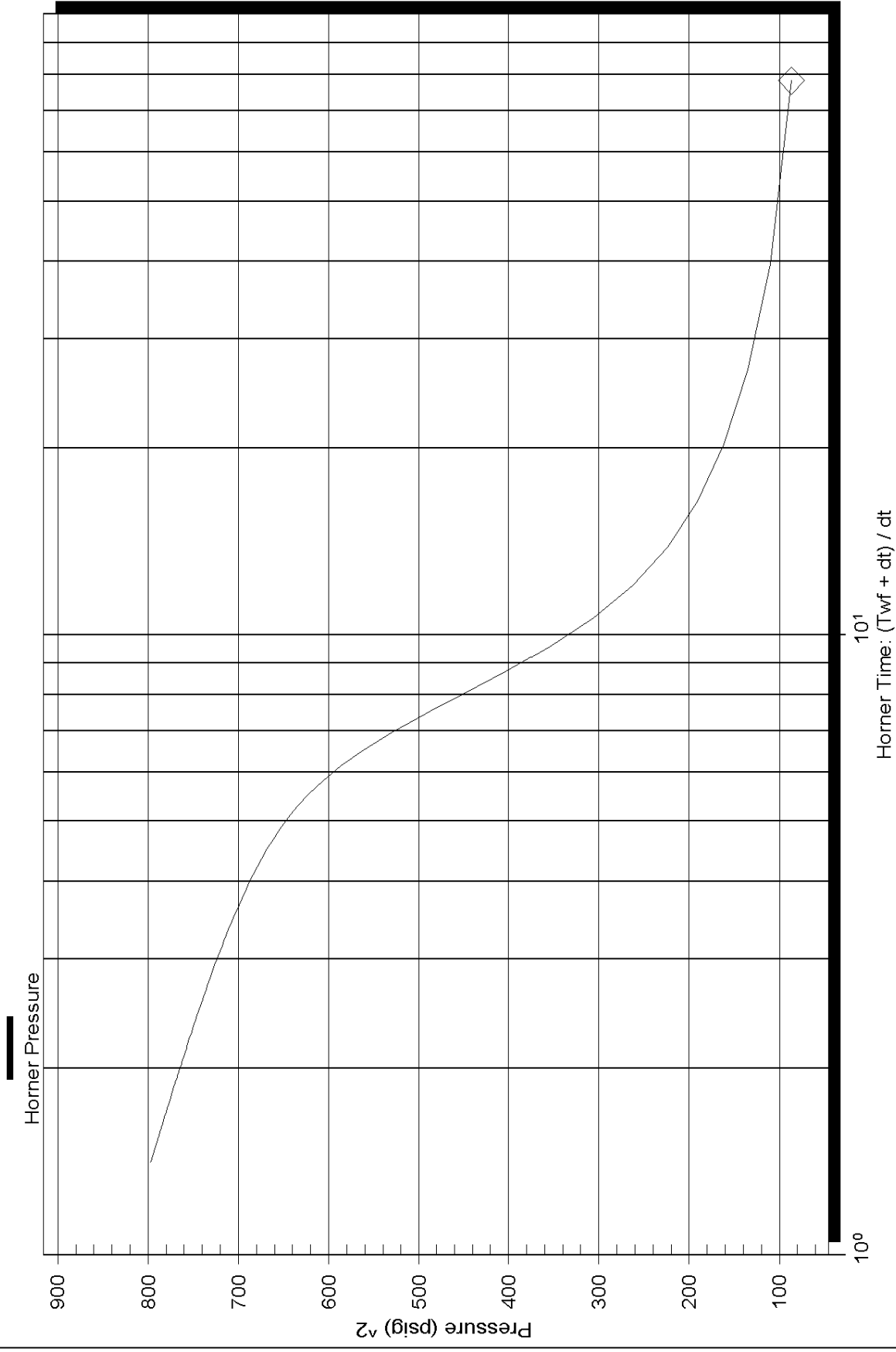


Serial Number: 8321 (Inside)

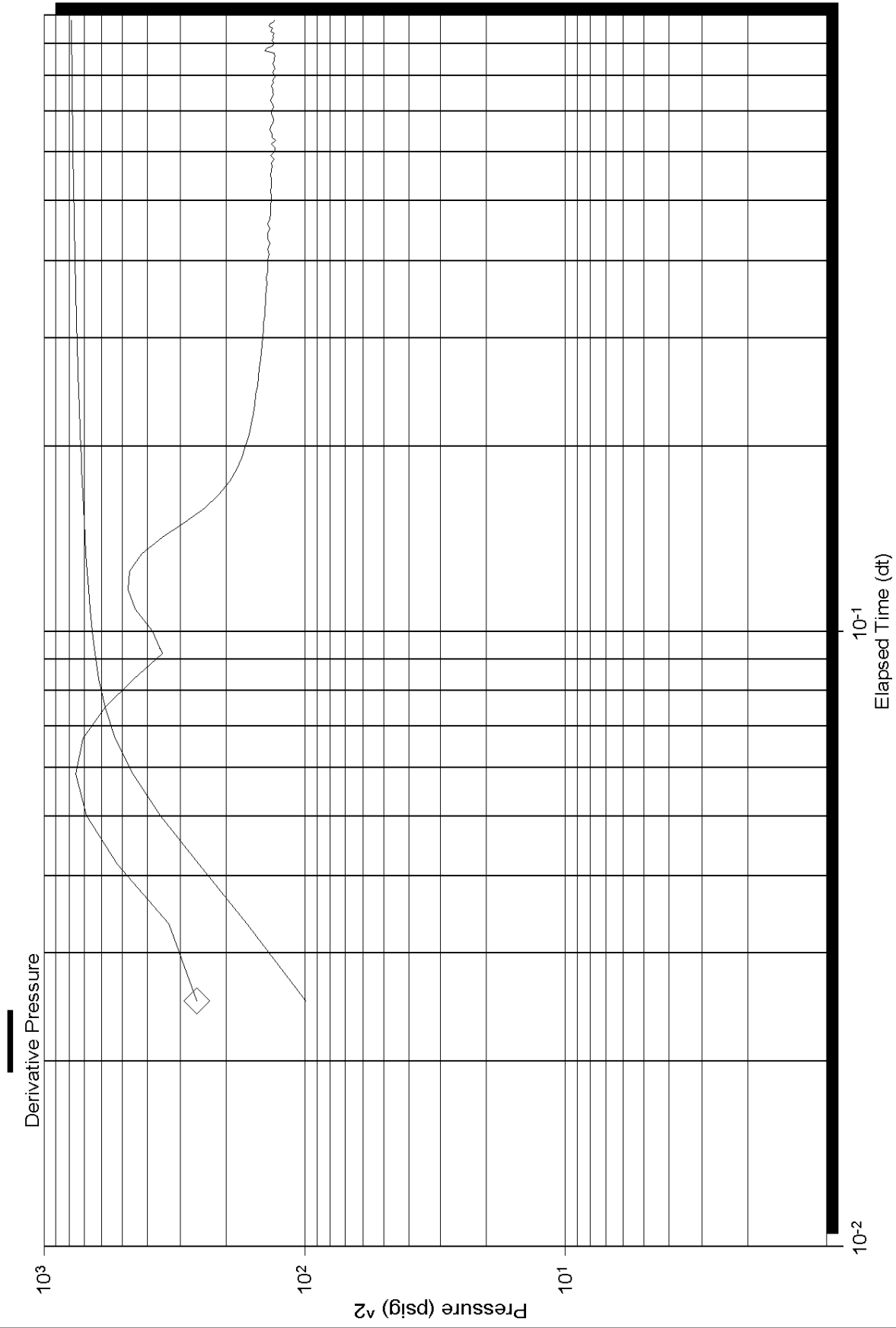
P\* : Slope (m) : kpa/log cycle

Flow Cycle: 1

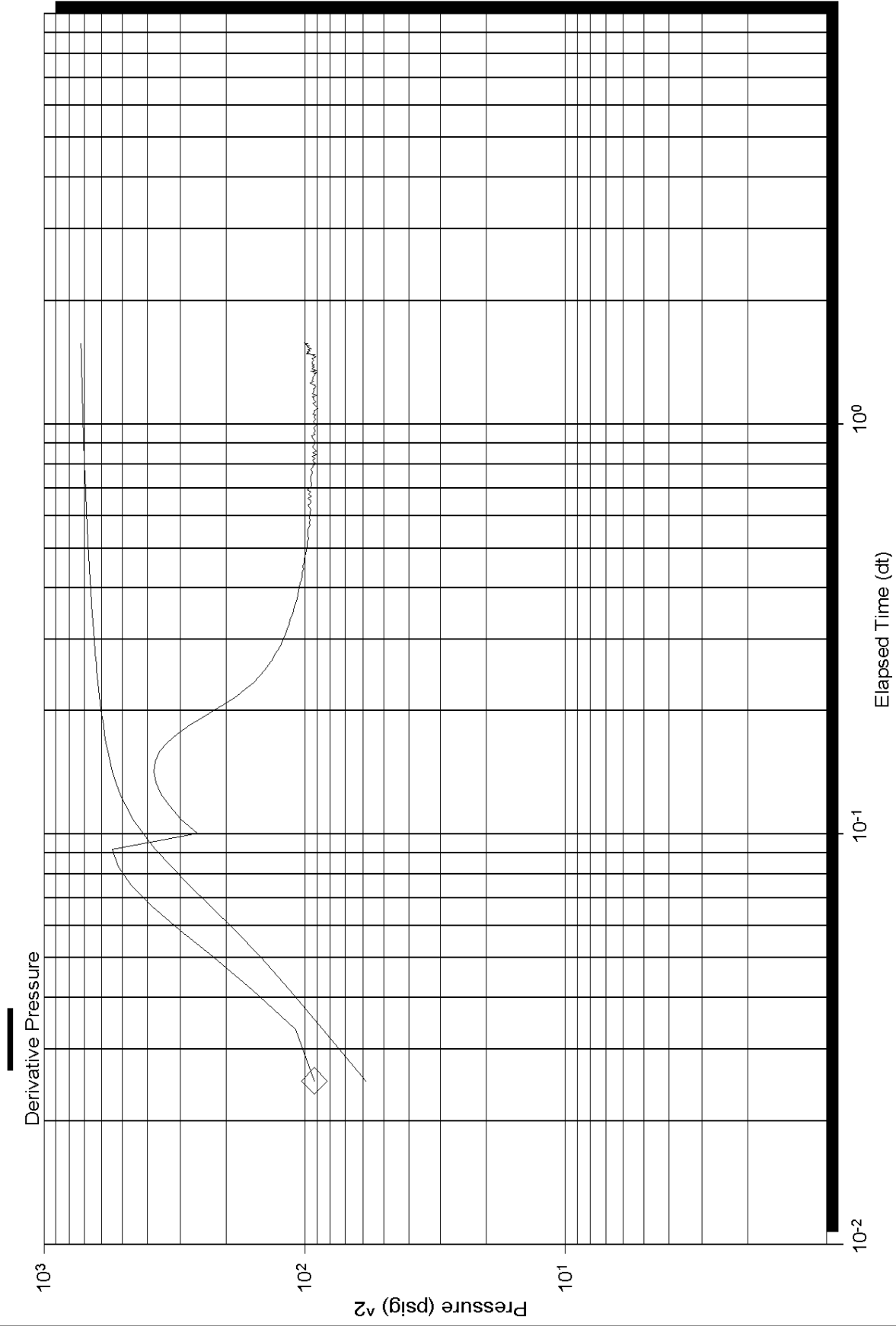
# Horner Plot



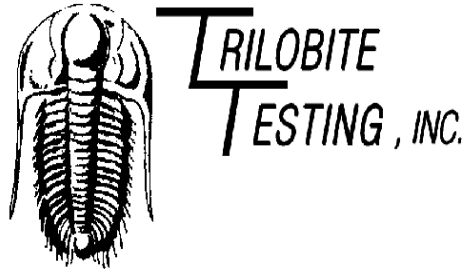
# Log-Log and Pseudo-Derivative



# Log-Log and Pseudo-Log-Derivative







## DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr & Associates, Inc**

1515 Wynkoop  
Ste 700

ATTN: Tom Fertal

**4-18s-10w**

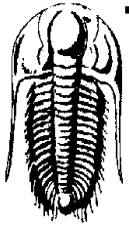
**Hoelscer Farms #1-4**

Start Date: 2010.08.30 @ 06:55:53

End Date: 2010.08.30 @ 12:36:53

Job Ticket #: 38510                      DST #: 2

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Samuel Gary Jr & Associates, Inc

**Hoelscer Farms #1-4**

1515 Wynkoop  
Ste 700

**4-18s-10w**

Job Ticket: 38510

**DST#: 2**

ATTN: Tom Fertal

Test Start: 2010.08.30 @ 06:55:53

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:34:23

Time Test Ended: 12:36:53

Test Type: Conventional Bottom Hole

Tester: Jeff Brown

Unit No: 44

**Interval: 3257.00 ft (KB) To 3272.00 ft (KB) (TVD)**

Reference Elevations: 1802.00 ft (KB)

Total Depth: 3230.00 ft (KB) (TVD)

1792.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

## Serial #: 8321

Inside

Press@RunDepth: 20.29 psig @ 3259.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.08.30

End Date:

2010.08.30

Last Calib.:

2010.08.30

Start Time: 06:55:54

End Time:

12:36:53

Time On Btm:

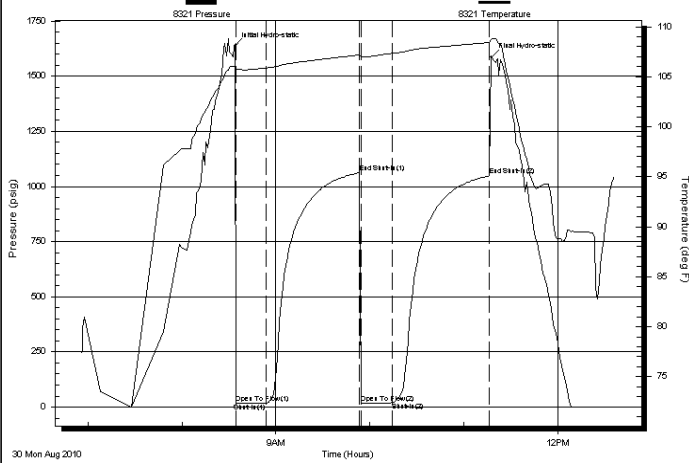
2010.08.30 @ 08:33:53

Time Off Btm:

2010.08.30 @ 11:17:53

TEST COMMENT: IFP-Weak surface blow built to 1/8 in  
IS-Dead no blow back  
FFP-Weak surfac blow died in 12 min  
FSI-Dead no blow back

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1637.65	106.07	Initial Hydro-static
1	17.67	105.75	Open To Flow (1)
20	17.57	105.86	Shut-In(1)
80	1062.87	107.18	End Shut-In(1)
81	19.14	106.95	Open To Flow (2)
101	20.29	107.33	Shut-In(2)
163	1048.42	108.41	End Shut-In(2)
164	1586.51	108.76	Final Hydro-static

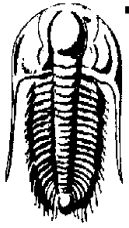
## Recovery

Length (ft)	Description	Volume (bbl)
2.00	Free Oil	0.03
5.00	VSOCM	0.07

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (MMcf/d)





**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Samuel Gary Jr & Associates, Inc

**Hoelscer Farms #1-4**

1515 Wynkoop  
Ste 700

**4-18s-10w**

Job Ticket: 38510

**DST#: 2**

ATTN: Tom Fertal

Test Start: 2010.08.30 @ 06:55:53

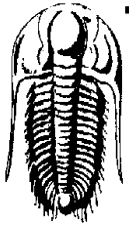
### Tool Information

Drill Pipe:	Length: 3259.00 ft	Diameter: 3.80 inches	Volume: 45.72 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 39000.00 lb
			<u>Total Volume: 45.72 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 32000.00 lb
Depth to Top Packer:	3257.00 ft			Final 32000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	43.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3230.00	
Shut In Tool	5.00			3235.00	
Hydraulic tool	5.00			3240.00	
Jars	5.00			3245.00	
Safety Joint	3.00			3248.00	
Packer	4.00			3252.00	28.00 Bottom Of Top Packer
Packer	5.00			3257.00	
Stubb	1.00			3258.00	
Perforations	1.00			3259.00	
Recorder	0.00	8321	Inside	3259.00	
Recorder	0.00	8672	Outside	3259.00	
Perforations	10.00			3269.00	
Bullnose	3.00			3272.00	15.00 Bottom Packers & Anchor

**Total Tool Length: 43.00**



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr & Associates, Inc

**Hoelscer Farms #1-4**

1515 Wynkoop  
Ste 700

**4-18s-10w**

Job Ticket: 38510

**DST#: 2**

ATTN: Tom Fertal

Test Start: 2010.08.30 @ 06:55:53

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 41 deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 50.00 sec/l	Cushion Volume: bbl	
Water Loss: 12.17 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 7500.00 ppm		
Filter Cake: inches		

## Recovery Information

Recovery Table

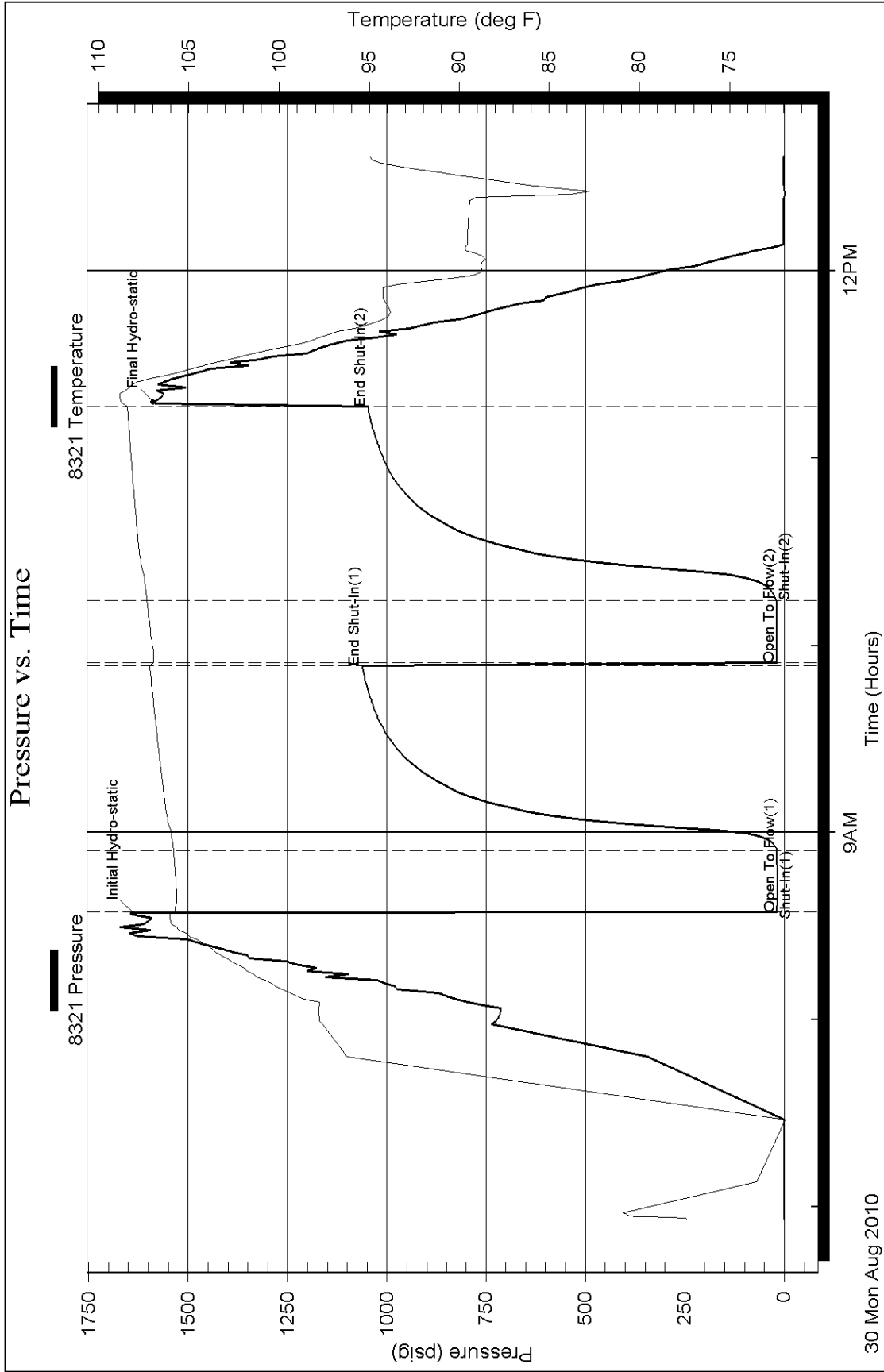
Length ft	Description	Volume bbl
2.00	Free Oil	0.028
5.00	VSOCM	0.070

Total Length: 7.00 ft      Total Volume: 0.098 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:

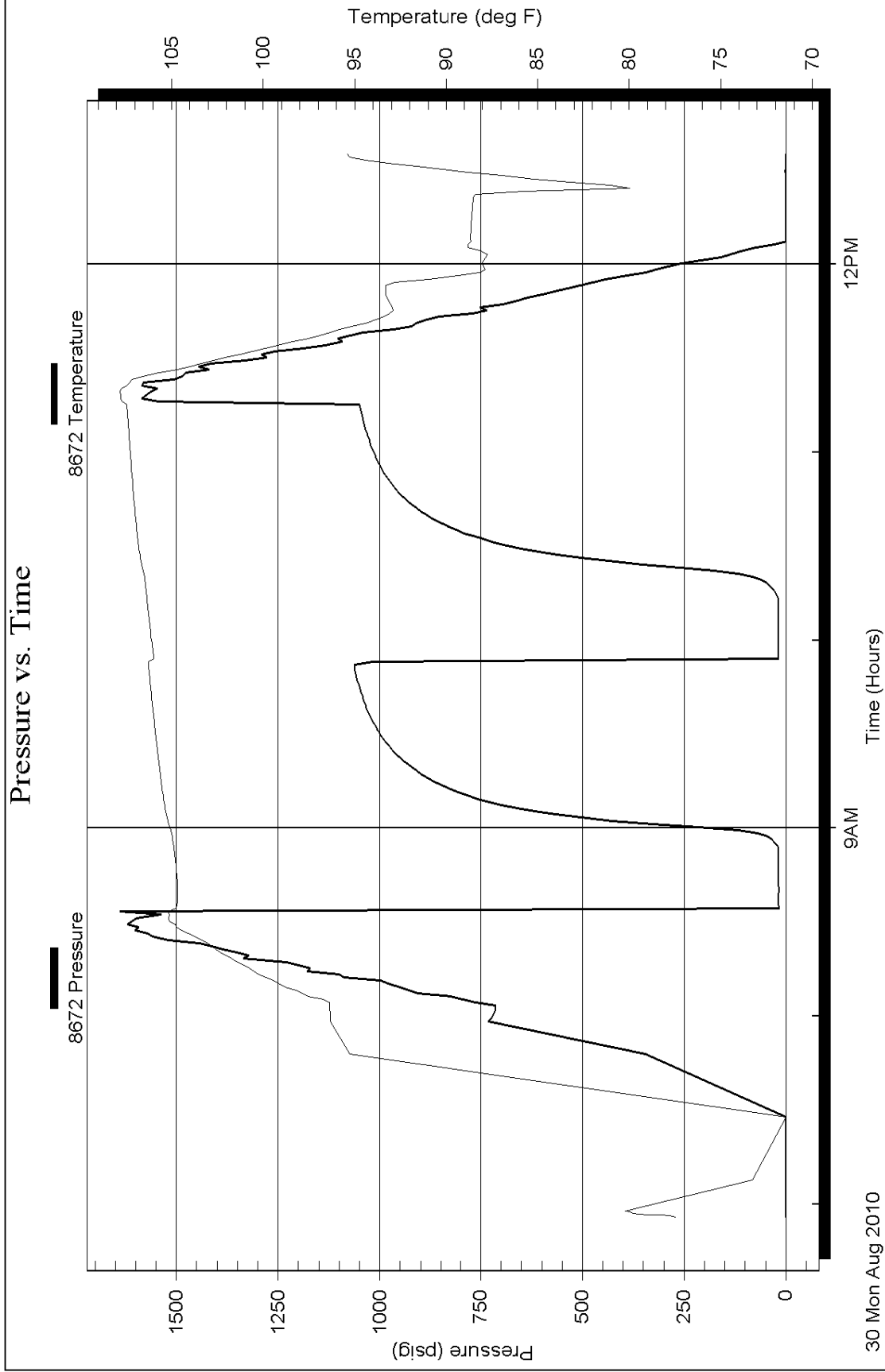


Serial #: 8672

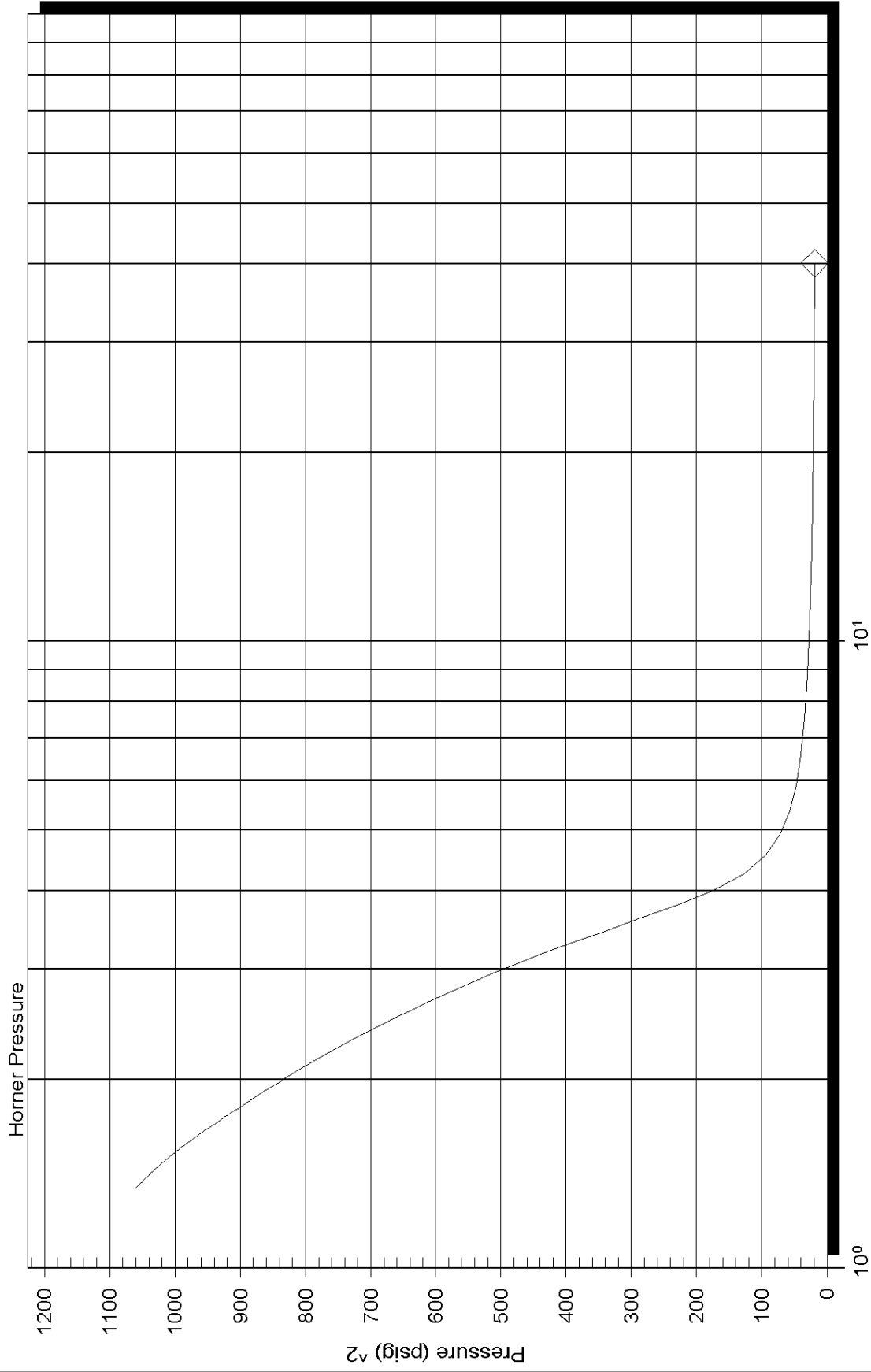
Outside Samuel Gary Jr & Associates, Inc

4-18s-10w

DST Test Number: 2



### Horner Plot



Serial Number: 8321 (Inside)

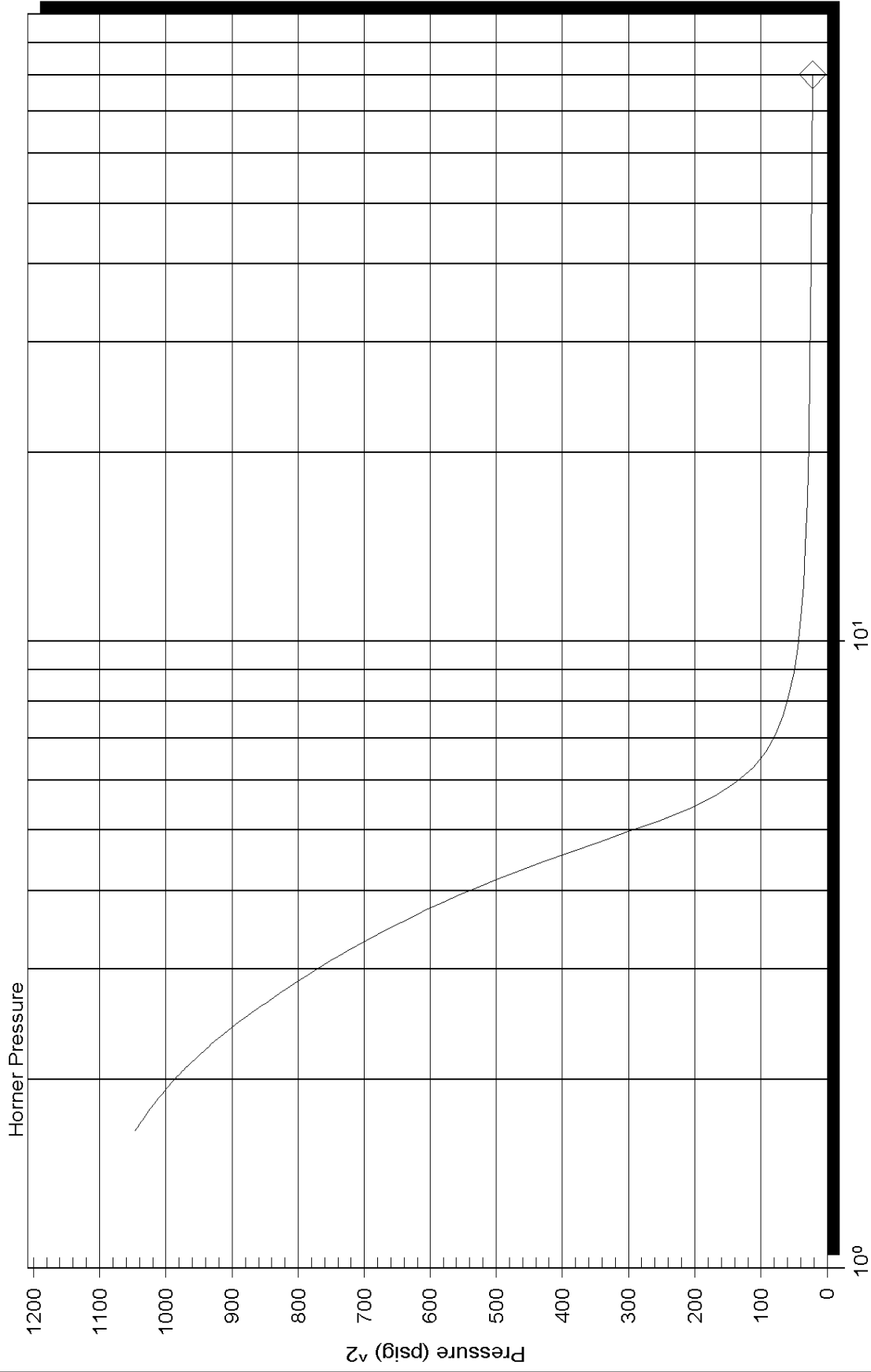
P\* : Slope (m) : kpa/log cycle

Horner Time: (Twf + dt) / dt

Flow Cycle: 1



### Horner Plot



Serial Number: 8321 (Inside)

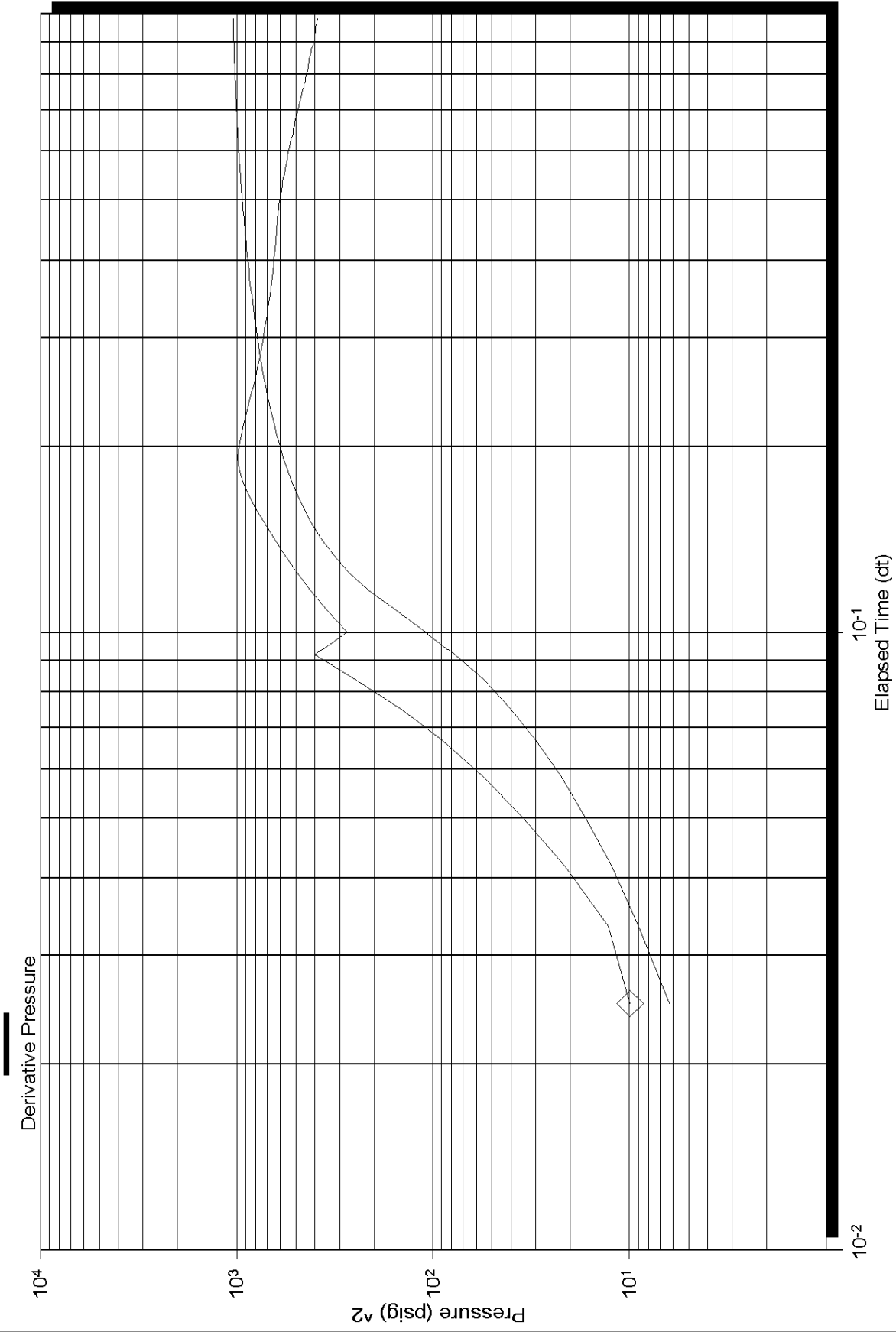
P\* :

Slope (m) : kpa/log cycle

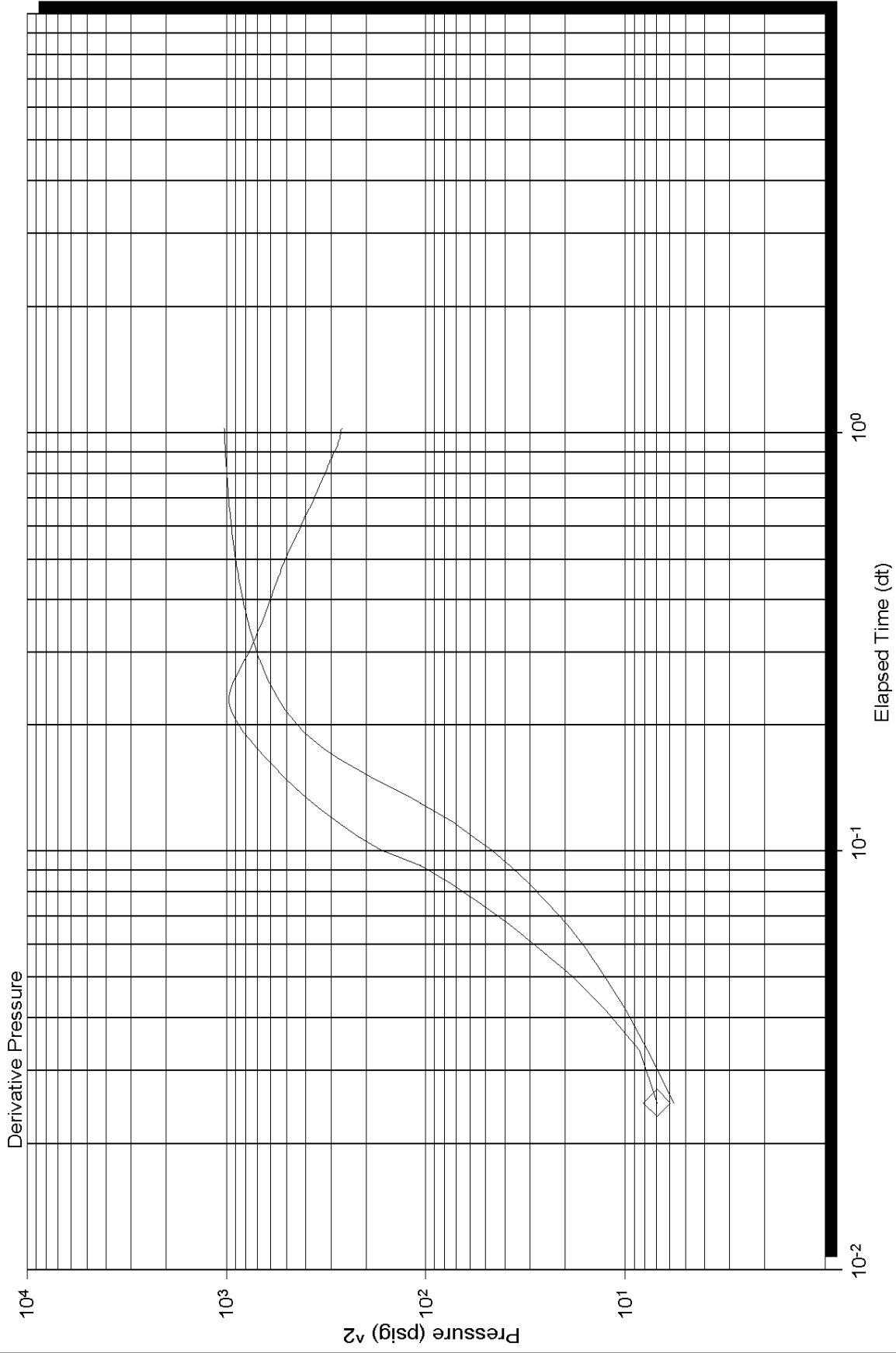
Horner Time: (Twf + dt) / dt

Flow Cycle: 2

# Log-Log and Pseudo-Log-Derivative



# Log-Log and Pseudo-Log-Derivative





Scale 1:240 (5"=100') Imperial  
Measured Depth Log

Well Name: HOLESCHER FARMS 1-4  
Location: SEC 4, T18 S, R10W, RICE COUNTY , KANSAS  
License Number: 15-159-22618-00-00  
Spud Date: 08/25/2010  
Surface Coordinates: 2030' FNL & 2040' FEL  
Region: Wildcat  
Drilling Completed:  
Bottom Hole Coordinates:  
Ground Elevation (ft): 1792" K.B. Elevation (ft): 1802"  
Logged Interval (ft): 2248' To: Total Depth (ft):  
Formation: Lansing, Arbuckle  
Type of Drilling Fluid:

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

#### OPERATOR

Company: Samuel Gary Jr, & Assoc.  
Address: 1515 Wykoop, Ste. # 700  
Denver, Colo. 80202  
Geo: Tom Fertal

#### GEOLOGIST

Name: Rodney napier  
Company: Earth Tech OGL, Inc.  
Address: PO Box 683  
Hooker, Okla . 73945  
Off. 888-543-8378 Cell: 620-655-8252

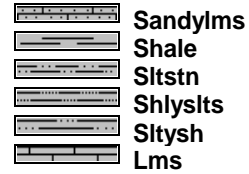
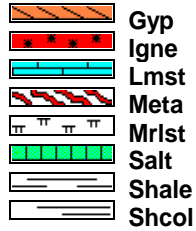
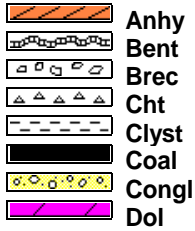
#### Circulating Report

START ONE MANNED UNIT 08/28/2010  
CFS/CTCH 2938'20,40,60 SHORT TRIP TO CASING  
CTCH 1HR

#### DST's Report

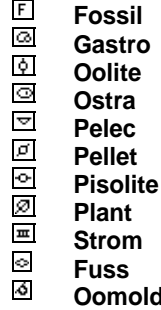
#### DST's Report

### ROCK TYPES

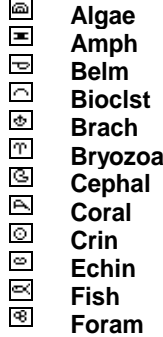


### ACCESSORIES

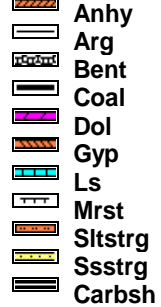
#### MINERAL



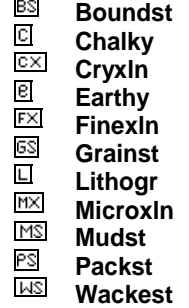
#### FOSSIL



#### STRINGER

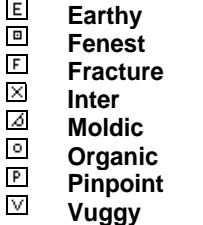


#### TEXTURE



### OTHER SYMBOLS

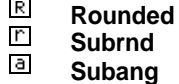
#### POROSITY TYPE



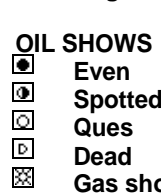
#### SORTING



#### ROUNDING



#### Angular



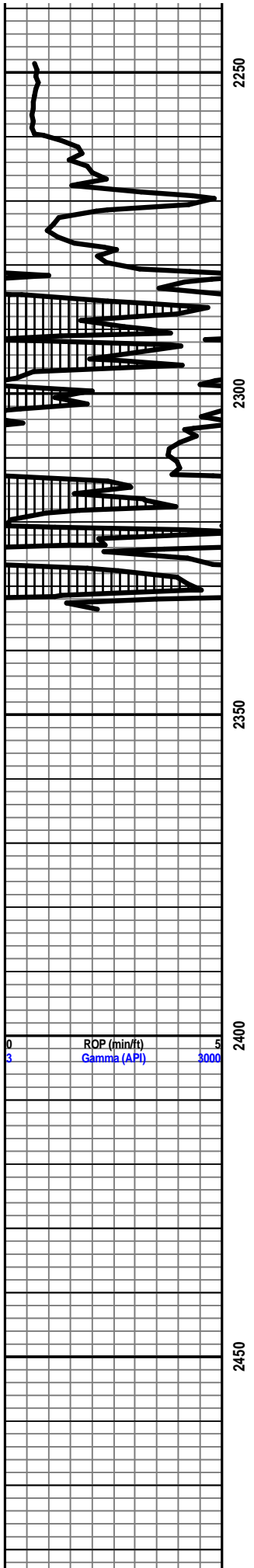
#### INTERVALS



#### EVENTS

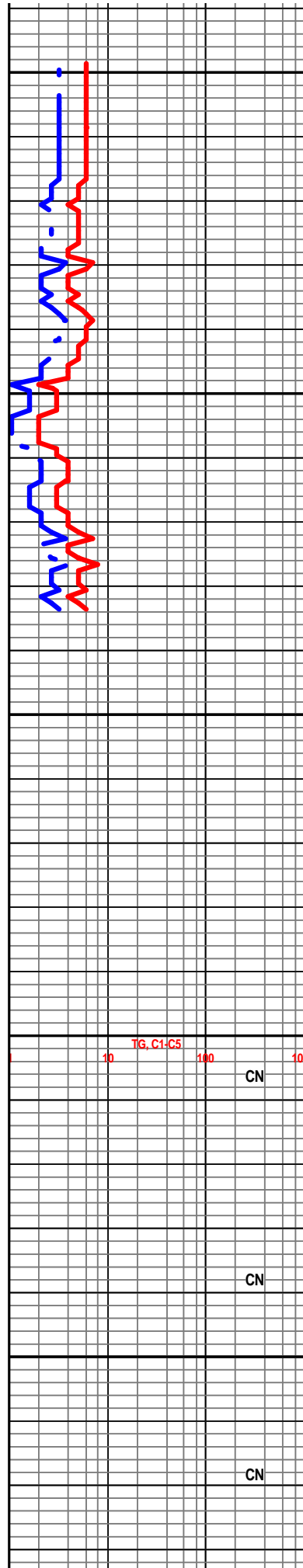


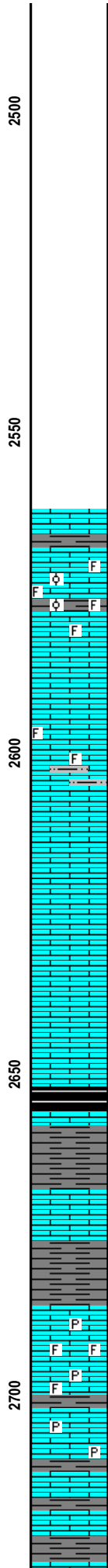
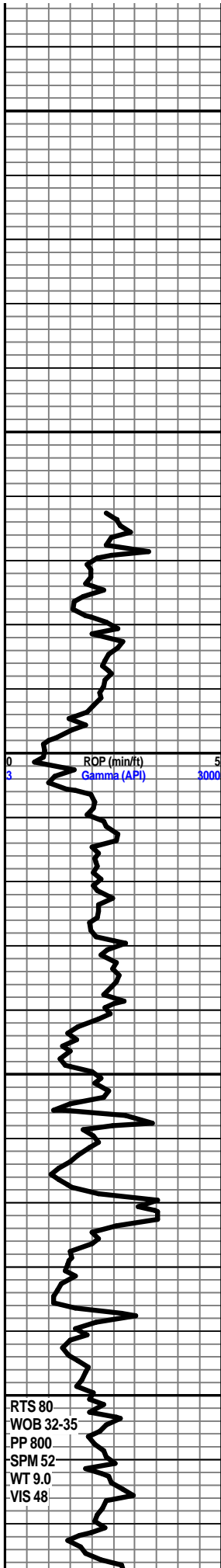
Curve Track 1		Depth	Lithology	Geological Descriptions	TG, C1-C5		
ROP (min/ft)	Gamma (API)				TG (units)	C1-C5 (units)	
0	3	22		START ONE MANED UNIT 08/27/2010	10	100	10
DRILLING CONTRACTOR SOUTHWIND #1					DRILLING CONTRACTOR SOUTHWIND #1		



RIGGED UP TRAILER AT 2248'

FOOT MARKER NOT WORKING PROPERLY





**FOOT MARKER FIXED 2562'**

LS LT GRY TN LT TN BUFF HD TO FRM BRITT VVFN TO FN XLN MTX MD EXLN MTX IP RE-XLN MTX IMBD FOSS SUB-CHLKY IP SCATT LT YLW TO DULL YLW FLO TR PR TO FAIR INTER XLN POR TO TR POSS FOSS POR IP NO CUT NO VIS SHOW

LS LT GRY TN LT TN BUFF MOTT FRM BRITT VVFN TO FN XLN MTX TR SILST STN IP VVFN GRNS SUB-CHLKY IP TR IMBD FOSS FRG IP TR SCATT DULL YLW FLO IP TR POOR INTERXLN POR TO TR MICRO PP POR ON TWO ROCKS NO CUT NO VIS SHOW

LS DK GRY TO GRY DK TN TO TN BUFF MOTT IP HD DN BRITT CRYPTO TO VVFN TO TR FN XLN MTX NO NO FLO NO VIS POR NO CUT NO VIS SHOW

LS LT GRY TN LT TN CRM BUFF MOTT IP FRM BRITT VVFN TO FN XLN MTX SUCRO TXT TR IMBD LS GRNS IP SUB-CHLKY TR DISEMINATED PYR IP TR VRY LT YLW FLO IP TR POOR TO POSS FAIR INTER XLN POR NO CUT NO VIS SHOW

SH BLK CARB

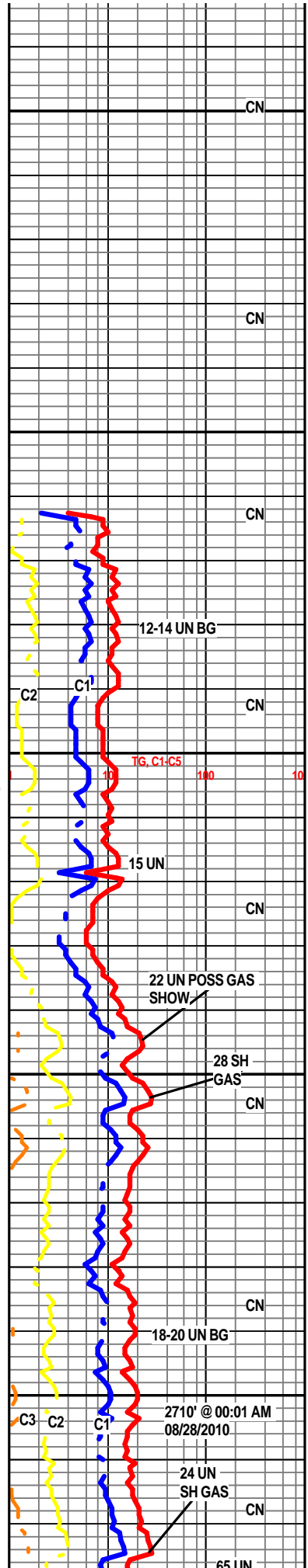
SH GRY LT GRY SLTLY FRM SFT TO SILTY LMY IP

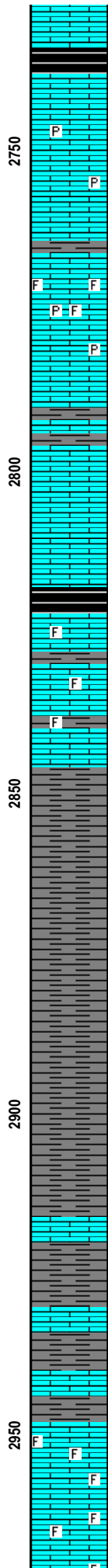
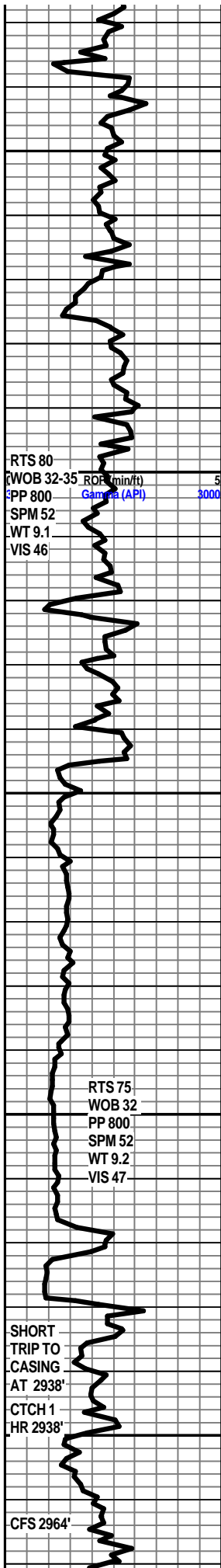
LS DK GRY TO GRY DK TN HD DN TT CRYPTO XLN MTX DISS GRY SH IP NO FLO NO VIS POR NO CUT NO VIS SHOW

**Le Compton 2687' -885'**

LS LT TN CRM BUFF VVFN TO FN TR MD XLN MTX TR IMBD CALC XLS TR IMBD GRY SH IP TR FN DISSEMINATED PYR IP TR IMBD FOSS IP DULL YWL FLO IP TR POOR TO FAIR INTERXLN POR IP TO NO POR NO CUT NO VIS SHOW

LS LT GRY TN LT TN BUFF HD TO FRM BRITT CRYPTO TO VVFN TO FN XLN MTX TR IMBD GRY SH TR LOOSE FOSS FRG IN TRAY NO FLO NO VIS POR NO VIS SHOW





SH BLK CARB

LS DK GRY TO GRY DK TN HD DN TT CRYPTO XLN MTX TR LT WHT TO OPAQUE CHERT IP TR PYR NODULES IP NO FLO NO VIS POR NO VIS SHOW

LS TN LT TN BUFF FRM BRITT VVFN TO FN XLN MTX TR IMBD CALC XLS IP TR LMNTD PYR IP TR IMBD FOSS IP TR DULL LT YLW FLO IP ONLY TR POOR TO FAIR INTER XLN POR NO CUT NO VIS SHOW

LS TN LT TN BUFF HD TOF RM VVFN TO FN XLN MTX DISS LT GRY SH IP NO FLO NO VIS POR NO VIS SHOW

**Heebner 2819' -1017'**

SH BLK CARB

LS DK GRY DK TN T60 TN BUFF IP MOTT HD TO FRM BRITT VVFN TO FN TO MD XLN MTX IMBD FOSS TR LOOSE FOSS FRG IN TRAY SUCRO TXT IP TR VFN LS GRNS IMBD TO TR IMBD SM QRTZ XLS IP LT YLW FLO 40% TO TR LT DULL YWL FLO 10% NO STAIN NO ODOR TR POSS TT INTER XLN TO POSS TT INTERXLN POR NO CUT NO VIS SHOW

**Douglas 2845' -1043'**

SH DK GRY GRY TO REDISH BRN SLTLY FRM BLKY SMOOTH SPLNTY TO SILTY

SH LT GRY SFT TO SILTY MUSHY IP

LS DK GRY TO GRY HD DN TT CRYPTO XLN MTX NO FLO NO VIS POR

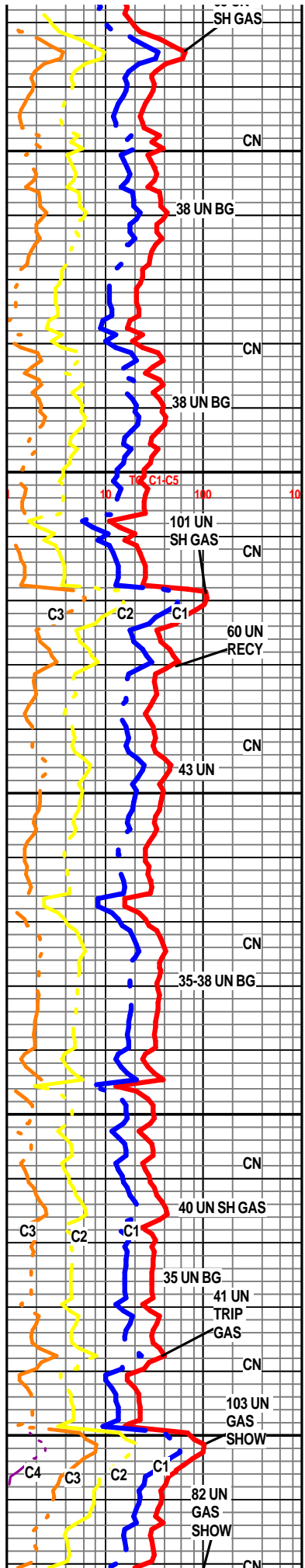
**Brown Lime 2930' -1128'**

LS GRY LT GRY BRN TO DK TN HD DN CRYPTO TO VVFN XLN MTX NO FLO NO VIS POR NO VIS SHOW

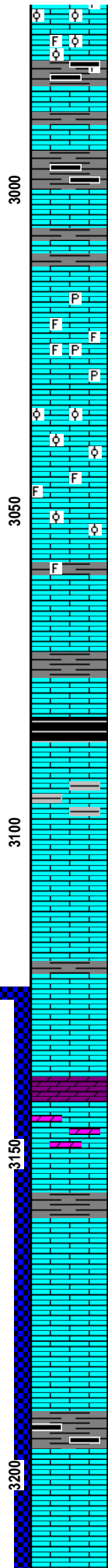
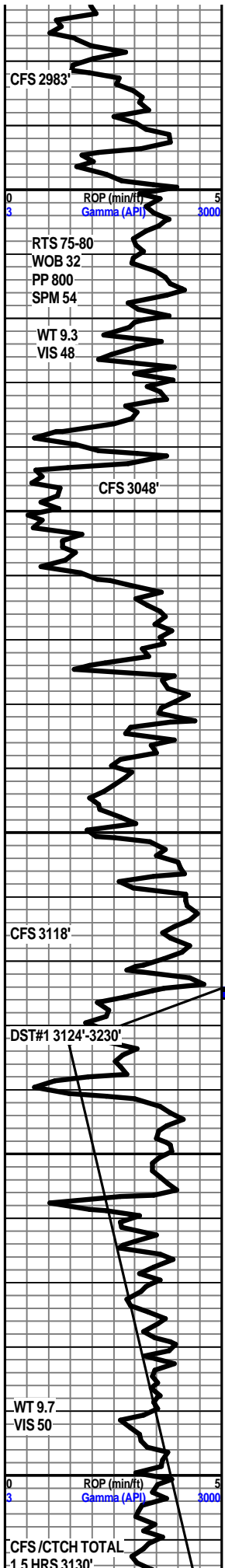
**LANSING 2947' -1145'**

LS TN LT TN CRM BUFF TO OFF WHT HD TO FRM BRITT CRYPTO TO VVFN TO FN XLN MTX RE-XLN MTX IP IMBD FOSS IP SUB-CHLKY POSS CHLKY TR IMBD CALC XLS IP POOR TO FAIR PP TO MICRO PP POR TR VUGS IP ONLY TR POOR INTERXLN POR NO ODOR LT YWL TO DULL YLW FLO 60% NO STAIN NO CUT NO VIS SHOW

LS TN LT TN CRM BUFF DK TN IP HD TO FRM VVFN TO FN TO TR MD XLN MTX IMBD SM OOLITES TO TR IMBD MD OOLITES WITH OTHER IMBD FOSS TR IMBD CALC XLS SLTLY OOMOLDIC 10% WITH IMBD SM CALC XLS LT BRITE YLW FLO 60% TO LT YLW FLO 20% NO STAIN







VRV/FAINT GASSY ODOR IN 40 MIN SAMPLE NO STAIN POOR TO FAIR INTERXLN POR TO POOR TO TR FAIR MICRO PP TO TR PP POR IP POSS POOR TO TR FAIR INTER FOSS POR NO CUT NO VIS SHOW

**LANSING "X" 2988' -1186'**

LS GRY DK TN TO TN HD DN CRYPTO TO VVFN XLN MTX WITH TR IMBD SH IP TR PYR NODULES IP NO FLO NO VIS POR NO VIS SHOW

SH DK GRY TO GRY HD TO FRM SMOOTH BRITT WITH TR BLK CARB SH IP CALC TO LMY

LS DK TN TO TN BUFF MOTT HD DN TT CRYPTO TO VVFN XLN MTX DISS DK GRY SH IP TR IMBD FOSS IP NO FLO NO VIS POR NO VIS SHOW

LS DK TN TO TN LT TN MOTT HD DN TT TO BRITT CRYPTO TO VVFN XLN MTX IMBD FOSS TR DISSIMINATED PYR IP NO FLO NO ODOR NO STAIN NO CUT NO VIS POR NO VIS SHOW

LS TN LT TN BUFF FRM BRITT VVFN TO FN XLN MTX RE-XLN MTX IMBD SM OOLITES TO TR IMBD CALC XLS OOMOLDIC THRU TR IMBD CHLK TR PIECES SLTLY FRM CHLK POSS OOLITIC POR TO POOR INTERXLN POR NO STAIN NO ODOR DULL YLW FLO IP NO CUT NO VIS SHOW

LS TN LT TN CRM BUFF TO OFF WHT FRM BRITT VVFN TO FN XLN MTX RE-XLN MTX IMBD FOSS FRG TR IMBD OOLITES IP DISSIMINATED PYR IP CHLKY POOR TO FAIR INTERXLN POR TO TR VUGS OOMOLDIC IP POOR TO TR FAIR PP TO MICRO PP POR NO STAIN NO ODOR LT YLW FLO NO CUT NO VIS SHOW

LS GRY DK TN TO TN LT GRY TO BUFF HD DN TT CRYPTO XLN MTX NO FLO NO VIS POR NO VIS SHOW

SH LT GRY SLTLY FRM SFT

LS DK TN TO DK BRN HD DN TT CRYPTO XLN MTX NO FLO NO VIS POR NO VIS SHOW

**LANSING "Z" 3083' -1281'**

LS CRM BUFF OFF WHT TO LT GRY HD TO FRM VVFN XLN MTX SUCRO TXT TR DISS LT GRY SH IP NO FLO NO VIS POR NO VIS SHOW

LS TN LT TN CRM BUFF LT GRY TO OFF WHT HD DN TT CRYPTO XLN MTX TO VVFN TO FN XLN MTX TR IMBD LS GRNS IP SUCRO TXT TR IMBD FOSS IP TR IMBD QRTZ XLS IP TR VRY POOR TO POOR INTERXLN POR TR SLT TR MICRO PP POR LT YLW FLO IP TR DK BLK OIL STAIN ON ONE ROCK NO ODOR VRY POOR FAINT FLUSH TO NO CUT NO VIS SHOW

LSTN LT TN CRM BUFF HD DN BRITT VVFN TO FN XLN MTX TR QRTZ XLS IP TR IMBD CALC XLS IP LT BRITE YLW FLO 70% TR STAIN IN 3% POSS TT INTER XLN POR TO NO POR FAINT ODOR IN 40 MIN SAMPLE FAINT FLUSH CUT TO VRY POOR SLOW STREAM CUT

DOL CRM OFF WHT TO WHT FRM BRITT VVFN TO FN XLN MTX SUCRO TXT IMBD DOL XLS LTBRITE YLW FLO NO STAIN POOR FAIR TO GOOD INTER XLN POR TO PP AND MICRO PP POR NO CUT NO VIS SHOW

LS BUFF OFF WHT HD DN TT VFN TO FN XLN MTX DOLIMITIC LS TR IMBD DOL GRNS DISS LT GRY SH IP LT BRITE YLW FLO NO STAIN NO VIS POR NO CUT NO VIS SHOW

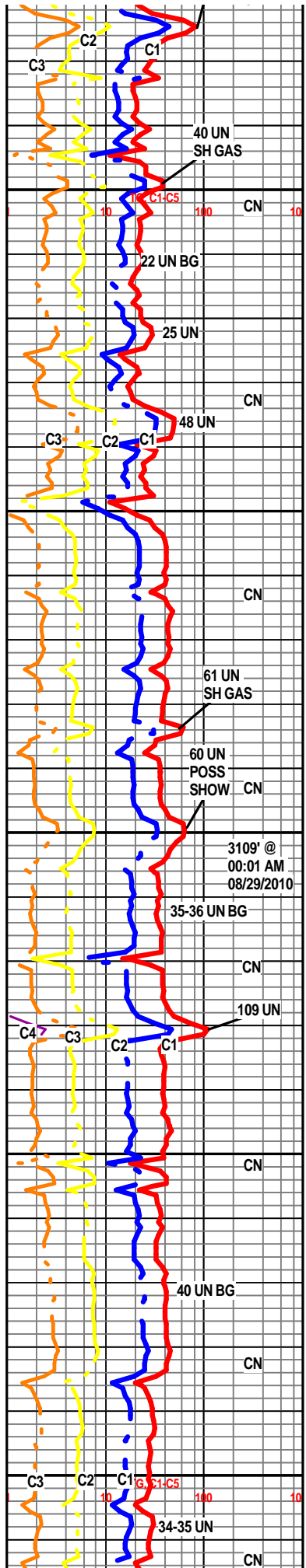
**STARK SH 3156' -1354'**

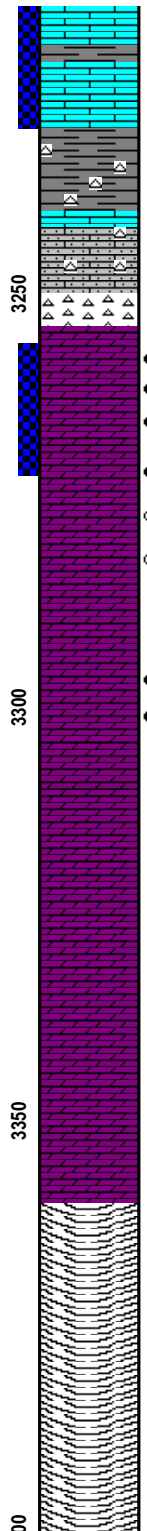
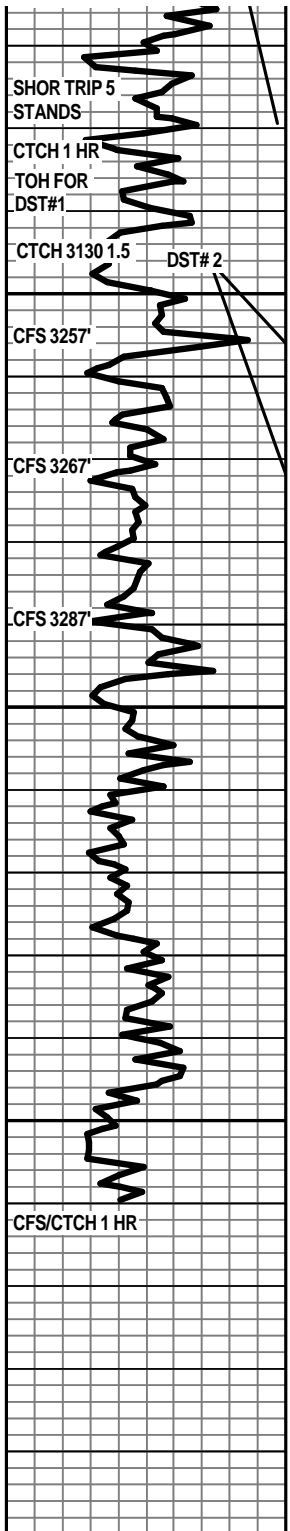
LS DK TN TN LT TN BUFF LT GRY MOTT IP HD DN TT CRYPTO TO VVFN XLN MTX SUCRO TXT IP IMBD FOSS TR DISS GRY SH IP SCATT TR DUU LT YLW FLO NO VIS POR NO CUT NO VIS SHOW

LS GRY TN LT TN BUFF HD DN TT CRYPTO TO VVFN XLN MTX NO FLO NO VIS POR NO VIS HOW

SH DK GRY TO GRY WITH TR IMBD BLK CARB SH IP HD FRM BRITT SMOOTH CALC TO LMY

LS TN LT TN CRM BUFF HD FRM BRITT VVFN TO FN TR MD XLN MTX RE-XLN MTX IMBD FOSS TR TR IMBD OOLITES IP TR IMBD QRTZ XLS IP LT YLW FLO 40% TO GLDN YLW FLO 30% STAIN 30% POOR TO POSS FAIR INTER XLN POR TO POOR TO TR FAIR PP AND MICRO PP POR POSS FRACTURES POOR TO TR FAIR INTER FOSS POR INSTANT FLUSH CUT TO SLOW STRONG MILKY BLUE STREAM CUT LT BRITE YLW RING CUT TO BRN LEACH ON DISH





SH GRY LT GRY SMOOTH SPLNTY SFT TO SILTY

LS LT GRY LT TN BUFF TO OFF WHT HD DN TT CRYPTO TO VVFN XLN MTX TR IMBD SH IP TO DISS LT GRY SH IP NO FLO NO VIS POR NO VIS SHOW

LS OF WHT TO WHT TO CRM VFN TO FN TR MD XLN MTX IMBD SUB-RND TO RND S GRNS THRU POOR TO FAIR SORT TR IMBD CHLK TR IMBD FOSS TR WHT CHERT IP LT YLW FLO POOR FAIR TO GOOD INTER XLN TO INTER GRAN POR NO STAIN NO ODOR NO CUT NO VIS SHOW

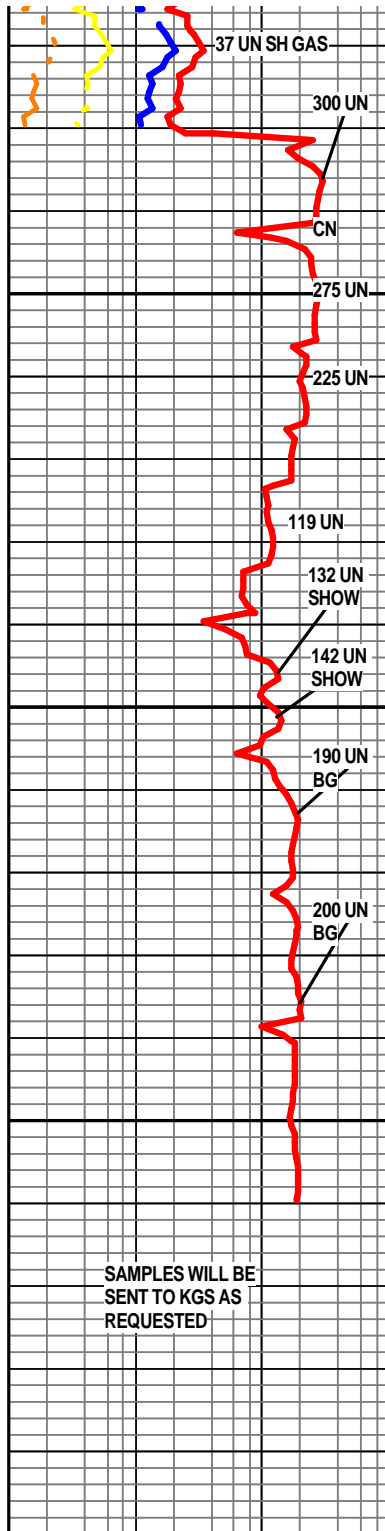
**ARBUCKLE 3256' -1454'**

DOL TN LT TN DUE TO STAIN FRM VVFN TO FN XLN MTX VERY SUCRO TXT VRY/SM RND DOL GRNS LT BRITE YLW TO GLDN YLW FLO THRU POOR TO TR FAIR INTER XLN TO TR PP AND MICRO PP POR EXCEL GOOD TO FAIR ODOR INSTANT FLUSH CUT TO STRONG MILKY BLUE STREAM CUT GLDN YLW RING CUT BRN LEACH ON DISH GOOD SHOW

DOL LT TN CRM TO OFF WHT FRM BRITT VVFN TO FN TO MD XLN MTX RE-XLN MTX IP SUCRO TXT IP TR IMBD ANG CLEAR TO FRSTY WHT QRTZ XLS TO TR CALC XLS TR IMBD DOL GRNS TR IMBD ANG DOL XLS IP TR IMBD FOSS IP GOOD ODOR 20,40, AND 60 SAMPLE BRITE YLW FLO 60% TO GLDN YLW FLO 40% BRITE YLW FLO AFTER DRIED FAIR TO GOOD TO TR VRY/GOOD INTER XLN POR TR VUGS IP TO MICRO PP TO PP POR LT OIL STAIN 60% INSTANT FLUSH TO FAIR TO GOOD MILKY BLUE STREAM CUT WBRN LEACH ON DISH

3272'-3282' DOL LT GRY OFF WHT TO WHT LT TN IP HD DN BRITT VVFN TO FN XLN MTX TR VRY SM DOL XLS IMBD IP TR LMNTD PYR IP TR DISSIMENATED PYR IP SFT WHT GUMMY CHLK LT BRITE YLW FLO 70% TR BLK OIL STAIN 5% POOR TO POSS FAIR INTER XLN POR MD PP TO PP AND MICRO PP POR ON 5 ROCKS WITH TR VUGS IP W/TR IMBD CALC XLS IP POOR TO FAIR ODOR FAINT TO POOR FLUSH CUT TO SPURTY MILKY BLUE STREAM CUT IP

3295'-3304' DOL TN LT TN DUE TO STAIN CRM BUFF TO OFF WHT VVFN TO FN TO MD XLN MTX RE-XLN MTX THRU IMBD ANG FN TO MD DOL XLS IMBD CALC XLS IN VUGS GOOD ODOR STAIN IN 65% BRITE YLW TO GLDN YLW FLO THRU FAIR TO GOOD TO EXCEL INTER XLN POR TR VUGS IP TO PP POR GOOD TO EXCEL INSTANT FLUSH CUT TO GOOD STRONG MILKY BLUE STREAM CUTTR BRN LEACH ON DISH GOOD SHOW



SAMPLES WILL BE SENT TO KGS AS REQUESTED

TD 9:25 PM 08/30/2010

TOH FOR LOGS 10:30 PM 08/30/2010

LOGS BY WEATHERFORD LIBERAL