



KANSAS CORPORATION COMMISSION 1050043  
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: \_\_\_\_\_



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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	FUNK 1-8
Doc ID	1050043

All Electric Logs Run

INDUCTION
MICRORESTIVITY
POROSITY
SONIC

Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



phone: 316-337-6200  
fax: 316-337-6211  
<http://kcc.ks.gov/>

Thomas E. Wright, Chairman  
Ward Loyd, Commissioner

Corporation Commission

Sam Brownback, Governor

January 27, 2011

NEIL D SHARP  
Samuel Gary Jr. & Associates, Inc.  
1515 WYNKOOP, STE 700  
DENVER, CO 80202

Re: ACO1  
API 15-009-25452-00-00  
FUNK 1-8  
NW/4 Sec.08-16S-15W  
Barton 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,  
NEIL D SHARP



**QUALITY OILWELL CEMENTING, INC.**

PO Box 32 - 740 West Wichita Ave, Russell KS 67665  
 Phone: 785-324-1041 fax: 785-483-1087  
 Email: cementing@ruraltel.net

Date: 10/4/2010  
 Invoice # 4578

P.O.#:  
 Due Date: 11/3/2010  
 Division: *Russell*

# Invoice

**Contact:**  
 Samuel Gary Jr & Associates Inc  
**Address/Job Location:**  
 Samuel Gary Jr & Associates Inc  
 3111 W. 10th Street  
 Great Bend, KS 67503

**Reference:**  
 FUNK 1-8

**Description of Work:**  
 LONG SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 626.08	No	Baffle Plate Aluminum, 8 5/8"	1	\$88.83	Yes
Common-Class A	400	\$ 4,619.22	Yes				
8 5/8" Basket	3	\$ 935.69	Yes				
Bulk Truck Matl-Material Service Charge	422	\$ 833.04	No				
Calcium Chloride	14	\$ 520.39	Yes				
Pump Truck Mileage-Job to Nearest Camp	28	\$ 275.81	No				
Flo Seal	100	\$ 197.40	Yes				
8 5/8" Centralizer	3	\$ 189.51	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	28	\$ 161.40	No				
Premium Gel (Bentonite)	8	\$ 128.55	Yes				
8 5/8" Top Rubber Plug	1	\$ 104.62	Yes				

**Invoice Terms:**

Net 30

	<b>SubTotal:</b>	\$ 8,680.54
	<b>Discount Available</b> <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:	\$ (1,302.08)
<hr/>		
	SubTotal for Taxable Items:	\$ 5,766.58
	SubTotal for Non-Taxable Items:	\$ 1,079.71
<hr/>		
	<b>Total:</b>	\$ 7,378.46
	<b>Tax:</b>	\$ 420.96
<hr/>		
	<b>Amount Due:</b>	\$ 7,799.42
	<b>Applied Payments:</b>	
	<b>Balance Due:</b>	\$ 7,799.42

7.30% Barton County Sales Tax

**Thank You For Your Business!**

Past Due Invoices are subject to a service charge (annual rate of 24%)  
 This does not include any applicable taxes unless it is listed.  
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DRLG  COMP  W/O  LOE  
 AFE # \_\_\_\_\_  
 ACCT. # 8200 138  
 APPROVED BY KPS

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 4578

Date	10-1-10	Sec.	8	Twp.	16	Range	15	County	Barber	State	Ks	On Location		Finish		
Lease	Funk	Well No.	#1-8			Location	Galeton, Ks - 3W, 2 1/2 N, E/S									
Contractor	Southwind Rig #2							Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Type Job	Surface							Hole Size	12 1/4"	T.D.	1057'	Charge To	Sam Gary Jr & Associates			
Csg.	8 7/8"							Depth	<del>1057'</del> 1057'	Depth		Street				
Tbg. Size								Depth		City		State				
Tool								Depth		City		State				
Cement Left in Csg.	42,81'							Shoe Joint	42,54'	The above was done to satisfaction and supervision of owner agent or contractor.						
Meas Line								Displace	64 1/2 BCS	Cement Amount Ordered	400 sk Common 3% CC 2% Gel					

**EQUIPMENT**

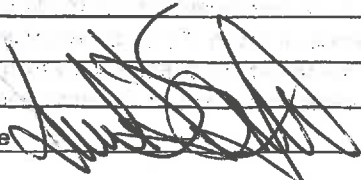
Pumptrk	1	No.	Cementer	Helper	Brandon										
Bulktrk	12	No.	Driver	Cisco											
Bulktrk	p.u.	No.	Driver	Rick											

**JOB SERVICES & REMARKS**

Remarks:	Cement did Circulate	Common	400
Rat Hole		Poz. Mix	
Mouse Hole		Gel.	8
Centralizers	1, 16, 22	Calcium	14
Baskets	7, 16, 25	Hulls	
D/V or Port Collar		Salt	
		Flowseal	100#
		Kol-Seal	
		Mud CLR 48	
		CFL-117 or CD110 CAF 38	
		Sand	
		Handling	422
		Mileage	

**FLOAT EQUIPMENT**

Guide Shoe	
Centralizer	3
Baskets	3
AFU Inserts	
Float Shoe	
Latch Down	
	1 - Baffle plate
	1 - Rubber plug
Pumptrk Charge	Long Surface
Mileage	28

X Signature 

Tax  
Discount  
Total Charge



PAGE 1 of 1	CUST NO 1003682	INVOICE DATE 10/11/2010
<b>INVOICE NUMBER</b> <b>1718 - 90428786</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 Funk 1-8  
 O LOCATION  
 B COUNTY Barton  
 S STATE KS  
 I JOB DESCRIPTION Cement-New Well Casing/Pi  
 T  
 E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40239588	19842		Net - 30 days	11/10/2010

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<b>For Service Dates: 10/09/2010 to 10/09/2010</b>				
0040239588				
<input type="checkbox"/> DRLG <input checked="" type="checkbox"/> COMP <input type="checkbox"/> W/O <input type="checkbox"/> LOE AFE # _____ ACCT. # <u>8300-238</u> APPROVED BY <u>KJS</u>				
171802901A Cement-New Well Casing/Pi 10/09/2010 CNW-5 1/2" Longstring				
60/40 POZ	75.00	EA	8.28	620.98 T
50/50 POZ	150.00	EA	7.59	1,138.47 T
Cello-flake	37.00	EA	2.55	94.46 T
Calcium Chloride	252.00	EA	0.72	182.57 T
Cal-Set	750.00	EA	0.52	388.11 T
FLA-322	121.00	EA	5.17	626.16 T
Cement Gel	252.00	EA	0.17	43.47 T
Gilsonite	1,125.00	EA	0.46	520.07 T
CS-1L, KCl Substitute	4.00	EA	24.15	96.60 T
Super Flush II	500.00	EA	1.06	527.84 T
Latch Down Plug & Baffle	1.00	EA	275.99	275.99
Auto Fill Float Shoe	1.00	EA	248.39	248.39
Turbolizer	8.00	EA	75.90	607.18
High Head Charge	1.00	EA	206.99	206.99
Heavy Equipment Mileage	170.00	MI	4.83	821.08
Proppant & Bulk Delivery Charges	812.00	MI	1.10	896.42
Blending & Mixing Service Charge	225.00	MI	0.97	217.34
Unit Mileage Charge-Pickups, Vans & Cars	85.00	HR	2.93	249.26
Depth Charge; 3001'-4000'	1.00	HR	1,490.35	1,490.35
Casing Swivel Rental	1.00	EA	138.00	138.00
Plug Container Utilization Charge	1.00	EA	172.50	172.50
Service Supervisor	1.00	HR	120.75	120.75

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	9,682.98
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	309.43
PO BOX 841903	PO BOX 10460	INVOICE TOTAL	9,992.41
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 02901 A

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

DATE OF JOB <b>10-9-10</b> DISTRICT <b>Pratt, Ks.</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>SAM GARY JR. &amp; ASSOC., INC.</b>		LEASE <b>FUNK</b> WELL NO. <b>1-E</b>								
ADDRESS		COUNTY <b>BARTON</b> STATE <b>Ks.</b>								
CITY STATE		SERVICE CREW <b>ORLANDO, LESLEY, WISSER</b>								
AUTHORIZED BY		JOB TYPE: <b>ONW-5 1/2" L.S.</b>								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
<b>272633</b>	<b>1</b>						<b>10-8-10</b>			<b>8:00</b>
<b>19889/19842</b>	<b>1</b>					ARRIVED AT JOB	<b>10-9-10</b>	AM	PM	<b>12:00</b>
<b>19826/19860</b>	<b>1</b>					START OPERATION		AM	PM	<b>4:00</b>
						FINISH OPERATION		AM	PM	<b>5:00</b>
						RELEASED		AM	PM	<b>6:00</b>
						MILES FROM STATION TO WELL				<b>85</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
CP 103	100/40 POZ	SK	75 ✓		900 00
CP 104	50/50 POZ	SK	150 ✓		1,650 00
CC 102	CELL-FLAKE	lb	37 ✓		136 90
CC 109	CALCIUM CHLORIDE	lb	252 ✓		264 60
CC 113	CAL-SET	lb	750 ✓		562 50
CC 129	FLA-322	lb	121 ✓		917 50
CC 200	CEMENT GEL	lb	252 ✓		63 00
CC 201	GILSONITE	lb	1125 ✓		753 75
CF 607	LATCH DOWN PLUG & BAFFLE	EA	1		400 00
CF 1251	AUTO FILL FLOAT SHLE	EA	1		360 00
CF 1651	TURBOLIZER	EA	8		880 00
C 704	15-1L KCL SUBSTITUTE	GAL	4 ✓		140 00
CC 155	SUPER FLUSH II	GAL	500 ✓		765 00
SUB TOTAL					

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE <b>Steve O. leads</b>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: _____ (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
--	--

FIELD SERVICE ORDER NO. \_\_\_\_\_





Customer: <i>Samuel Gary Jr</i>	Lease No.	Date: <i>10-9-10</i>
Lease: <i>Funk</i>	Well #: <i>1-8</i>	
Field Order #	Station: <i>P-11</i>	Casing: <i>5 1/2</i>
Type Job: <i>CNWC 5 1/2 L.S.</i>	Depth: <i>301</i>	County: <i>Barton</i>
		State: <i>MS</i>
	Formation	Legal Description: <i>2-16-15</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
Depth	Depth	From	To	Pre Pad	Max		5 Min.	
Volume	Volume	From	To	Pad	Min		10 Min.	
Max Press	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth	Packer Depth	From	To	Flush: <i>87</i>	Gas Volume		Total Load	

Customer Representative: <i>Paul Stuber</i>	Station Manager: <i>Dave Scott</i>	Treater: <i>Steve Orlando</i>
---	------------------------------------	-------------------------------

Service Units	<i>07227</i>	<i>17387</i>	<i>17340</i>	<i>17206</i>	<i>17360</i>				
Driver Names	<i>D. L. ...</i>	<i>...</i>	<i>...</i>	<i>...</i>	<i>...</i>				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>12:00</i>					<i>Underway...</i>
<i>3:10</i>					<i>Run 87 5 1/2 15.5" casing...</i>
<i>4:05</i>	<i>250</i>		<i>10</i>	<i>5</i>	<i>Super Slur II</i>
<i>4:37</i>	<i>250</i>		<i>3</i>	<i>5</i>	<i>1120 spacer</i>
<i>4:37</i>	<i>250</i>		<i>7.3</i>	<i>5</i>	<i>2.5 hrs. 60/100 post w 15.5"/ft</i>
<i>4:30</i>	<i>250</i>		<i>410</i>	<i>5</i>	<i>15.5" w. 5/8" post w 15.5"/ft</i>
					<i>Shut Down - clear pump line</i>
					<i>Release plug</i>
<i>4:41</i>	<i>0</i>		<i>0</i>	<i>0</i>	<i>1120 D. plug w/ 2% HCL</i>
<i>4:50</i>	<i>300</i>		<i>50</i>	<i>5</i>	<i>L.S.I. pump</i>
<i>4:57</i>	<i>700</i>		<i>75</i>	<i>4</i>	<i>Slow Rate - stop pump</i>
<i>5:00</i>	<i>1500</i>		<i>87</i>	<i>4</i>	<i>plug Down - hold</i>
					<i>Complete Job</i>
					<i>11:00 Stop</i>



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

Well Name: FUNK # 1-8  
Location: Sec 8 16s 15w, Barton, Kansas  
License Number: 15-051-25452-0000  
Spud Date:  
Surface Coordinates: 1385' Fnl & 395' Fwl

Region: Wildcat  
Drilling Completed: 10/08/2010

Bottom Hole Coordinates:

Ground Elevation (ft): 1963'      K.B. Elevation (ft): 1972'  
Logged Interval (ft): 1600'      To: 3680'      Total Depth (ft): 3680'  
Formation:  
Type of Drilling Fluid:

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 [www.WellSight.com](http://www.WellSight.com)

OPERATOR

Company: Sam Gary Jr & Assoc.  
Address: 1515 Wynkoop St., # 700  
Denver, Co. 80202  
Geo: Neil D. Sharp

GEOLOGIST

Name: Tim Hedrick  
Company: Earth Tech OGL, Inc.  
Address: PO Box 683  
Hooker, Okla . 73945  
Off. 888-543-8378 Cell: 620-655-2050

### DST information

DST#1 3252 TO 3303' 5 60 60 180

IF-STRNG BLOW IN 2 MIN., FF-STRNG BLO TRHU., ISI-1/4" THRU, FSI- 6' BLOW GTS

IH- 1542, FH- 1529,/ IF- 116 TO 189, FF- 224 TO 576,/ ISI- 1061, FSI- 1037

RECOVER ED 1244' TF, 186' MGO, 20% G., 40% O., 40% M./

248' MGO, 20% G., 60% O., 20% M., 500' CO, 62' O & GCW, 10% G., 10% O., 80%W.,/ 248' W. CHL. 43000/ SYST  
CHL.-4300 BHT 98 DEG.

DST#2 3304 TO 3328' 5 60 60 180

IF- BOB IN 2 MIN./ ISI-NO BLOW/ FF-BOB IN 1 MIN./ FSI- STRNG BLOW BACK

IH- 1556, FH- 1544/ IF- 58 TO 58, FF- 72 TO 177/ ISI-997, FSI-964,

RECOVERED- 391' TF, 1155' GIP, 205' CO, 125' MCO, 25% G., 55% O., 20% M., 62' SOCMW, 2% O., 88% W.,  
10% M.

34 GR./ CHL. 63000/ SYST. CHL- 4800 /BHT.97 DEG.

DST#3 3335 TO 3366 5 75 20 90 ( MISRUN?)

IF- SRFC BLOW THRU/ ISI- NB/ FF-NB/ FSI- NB/

IH- 1581, FH- 1566/ IF 17 TO 27, FF-21 TO 50/ ISI- 1008, FSI-1001.

RECOVERED 5' MUD W/ SHOW OF OIL, BHT 94 DEG.

### DST Information


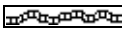
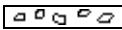
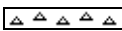
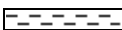



DST#4 3400-3432 5 75 60 180





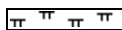


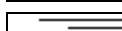
IF-WK 1/4" SRFC BLOW/ ISI- NB/ FF- 3" BLOW/ FSI- SRFCE BLOW BACK

IH- 1620, FH- 1606/ IF-16 TO 18, FF- 14 TO 23/ ISI- 1111, FSI- 1053







RECOVERED- 100' GIP, 15' HOCM, 5% G., 35% O., 60%M./ GRAVITY 30/ BHT 95 DEG.

### ROCK TYPES

	Anhy
	Bent
	Brec
	Cht
	Clyst
	Coal
	Congl
	Dol

	Gyp
	Igne
	Lmst
	Meta
	Mrlst
	Salt
	Shale
	Shcol

	Shgy
	Sltst
	Ss
	Till
	Carb sh
	Dol
	Dtd
	Gry sh

	Sandylms
	Shale
	Sltstn
	Shlyslts
	Sltysh
	Lms

### ACCESSORIES

#### MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr

- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff
- Chlorite
- Dol
- Sand
- Sltly

#### FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram

- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom
- Fuss
- Oomold

#### STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg
- Carbsh

- Clystn
- Dol
- Grysh
- Gryslt
- Lms
- Sandylms
- Sh
- Sltstn

#### TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

### OTHER SYMBOLS

#### POROSITY TYPE

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

#### SORTING

- Well
- Moderate
- Poor

#### ROUNDING

- Rounded
- Subrnd
- Subang

- Angular

#### OIL SHOWS

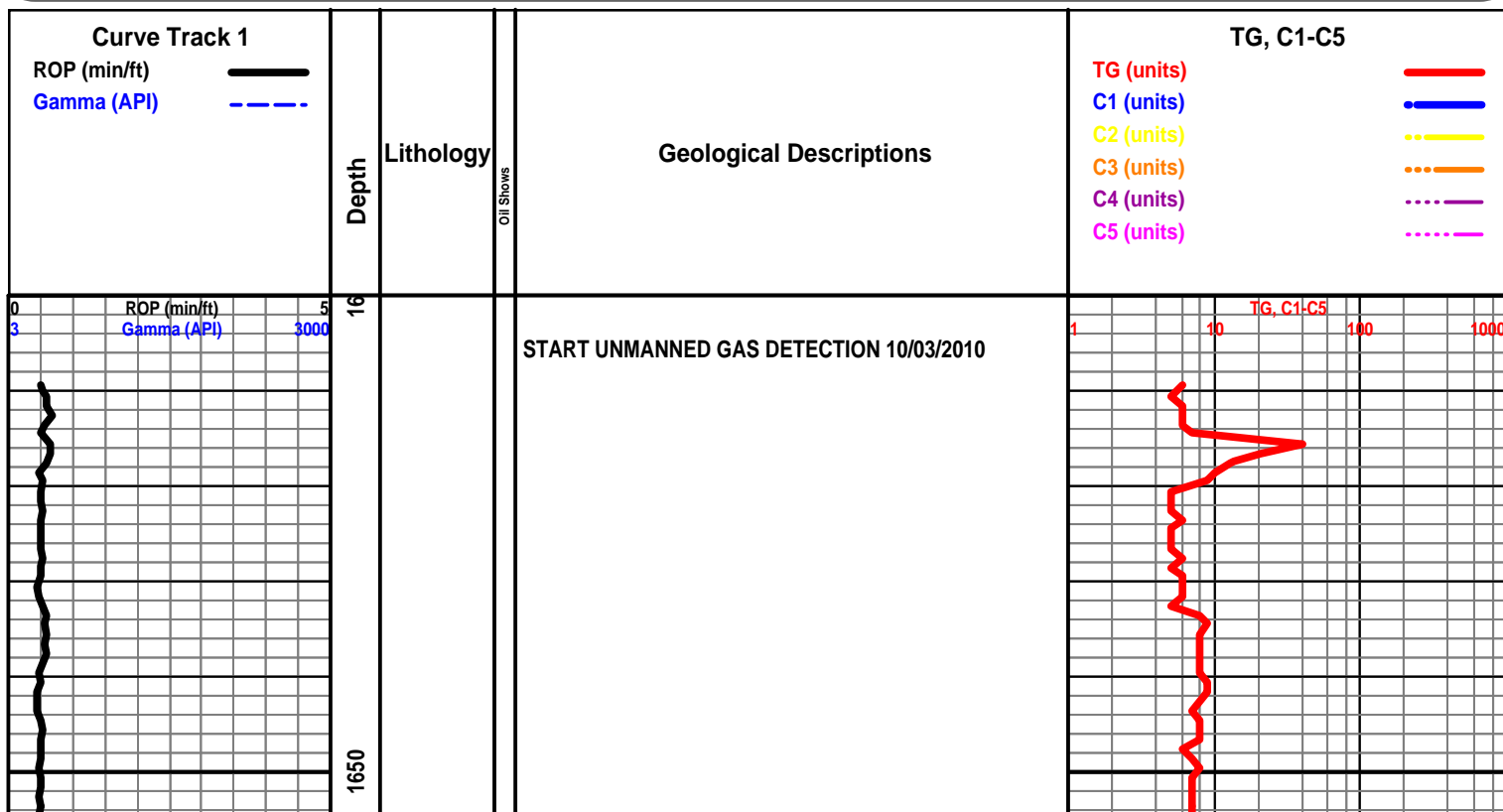
- Even
- Spotted
- Ques
- Dead
- Gas show

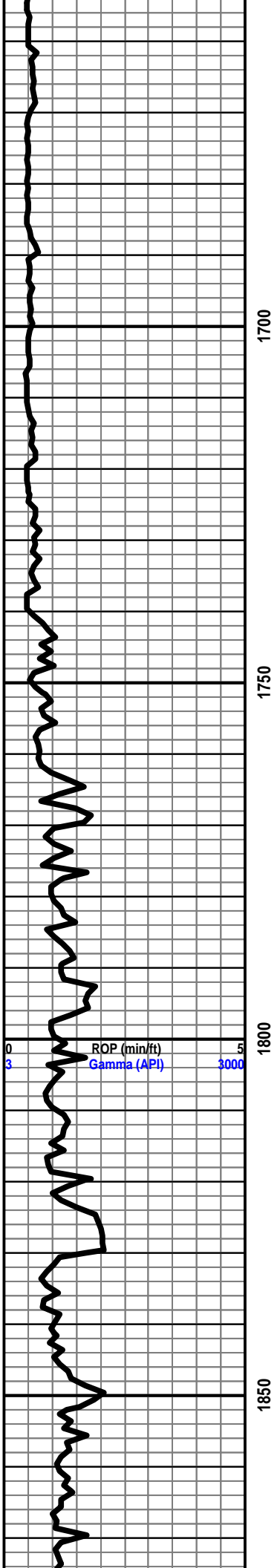
#### INTERVALS

- Core
- Dst
- Dst

#### EVENTS

- Rft
- Sidwall





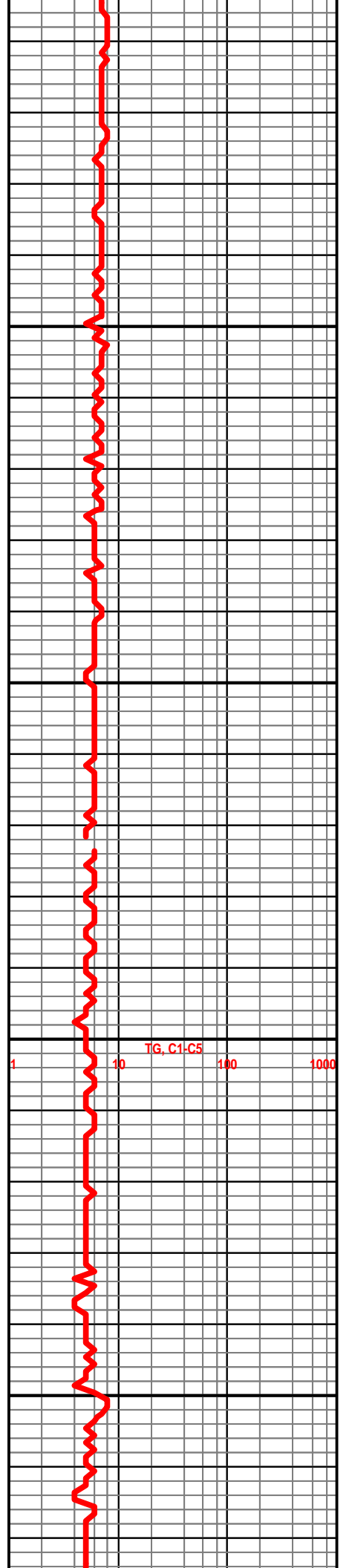
1700

1750

1800

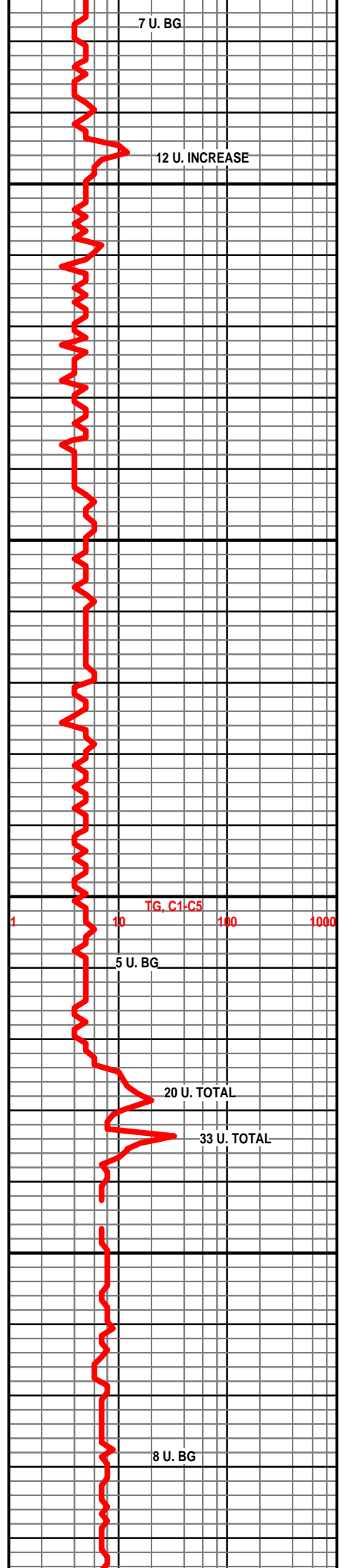
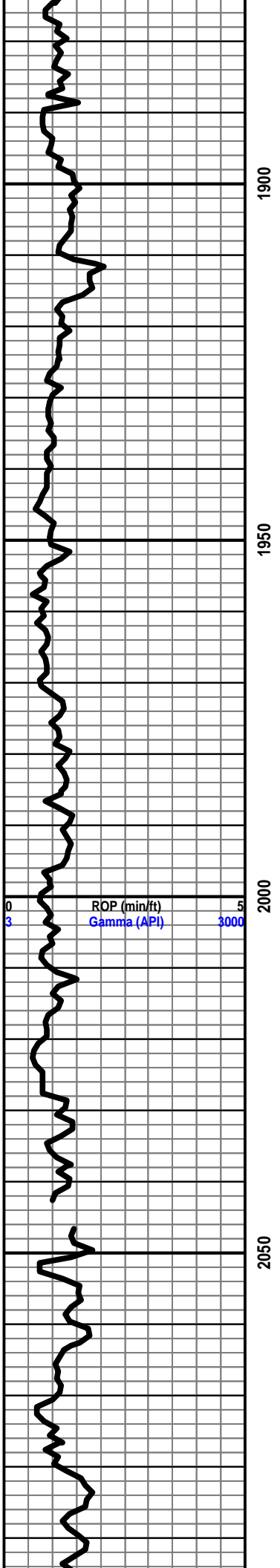
1850

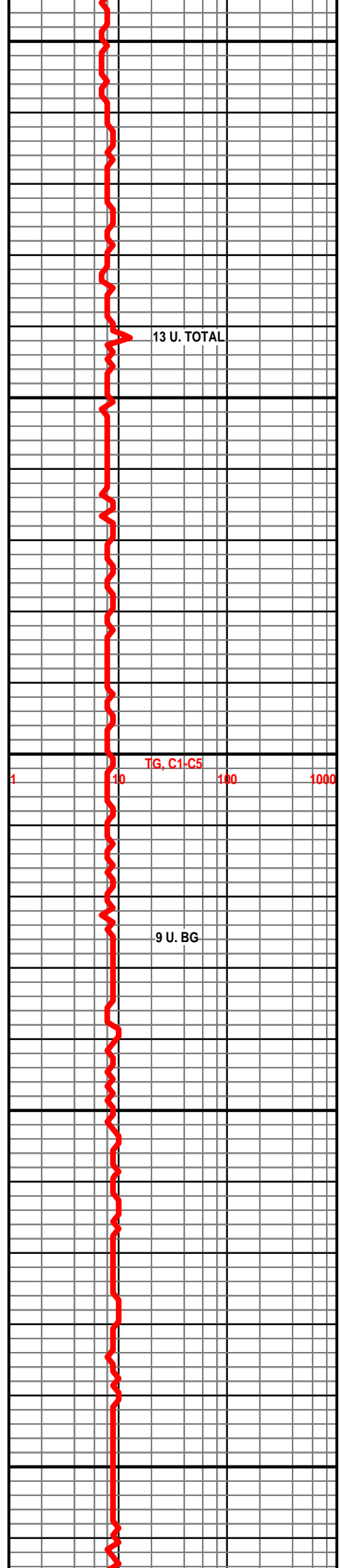
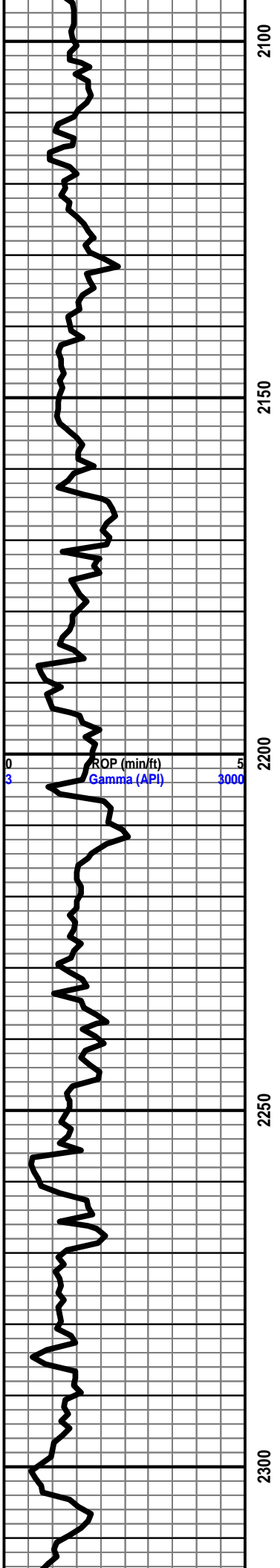
ROP (min/ft)  
Gamma (API)

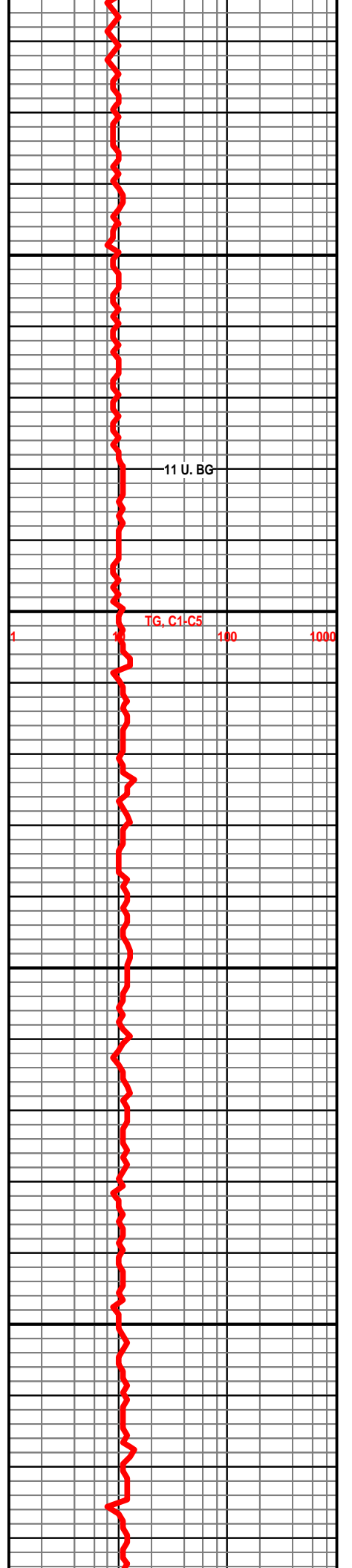
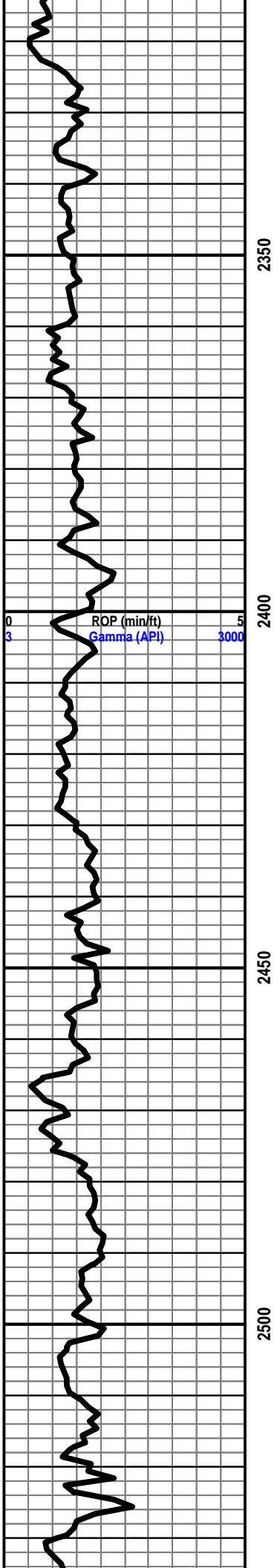


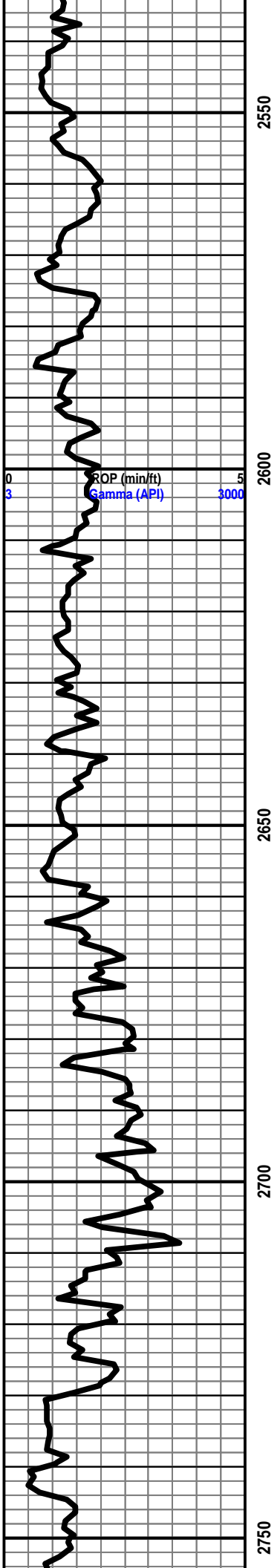
TIG, C1-C5











2550

2600

2650

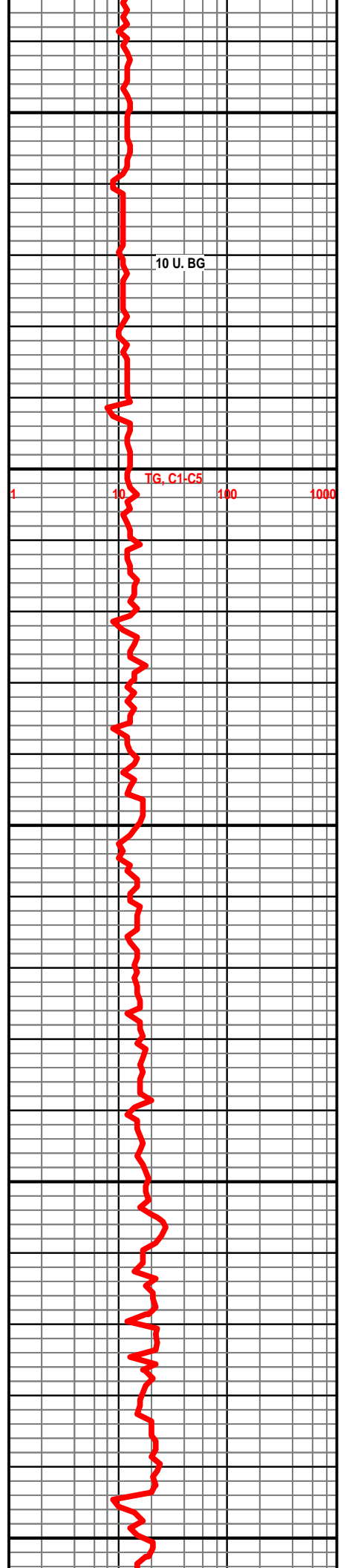
2700

2750

ROP (min/ft)  
Gamma (API)

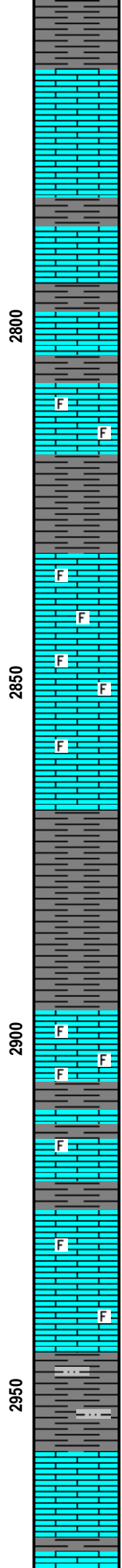
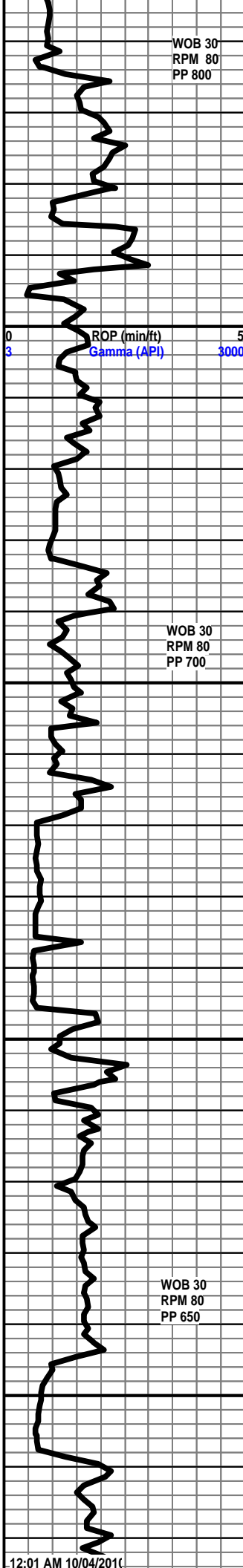
BASE ROOT SH. 2706' - 734'

START 24 HR MANNED UNIT 10/ 4 / 2010



10 U. BG

TIG, C1-C5



LS- OFF WHT CRM- HD TO BRITT, MD-XLN TO S-SUCRO  
MTRX IP, SLI TR S-CHLKY TO TR FOSS FRGS IP, LT YEL  
MIN FLO, NO VIS POR, NO VIS SHOW

SH- MD TO DK GY- FRM IP TO SFT PLTY

LS- LT TN LT BRN HD DNS TO TR BRITT, MD-F-XLN IP TO  
V/ TT SUCRO, V/ RE-XLN MTRX, V/ FOSS, ABTD IMBD  
FOSS FRGS IP, TR GLAUC, SLI TR WHT CHLK IP, LYT  
YEL MIN FLO IP, NO VIS POR, NO VIS SHOW

SH- LT GY TO V/ LT GRN- V/ SFT GMMY TO PLTY

**HOWARD 2896' - 924'**

LS- LT TN TN - HD DNS, F-V/F-XLN RE-XLN, FOSS FRGS  
THRU, NO FLO, NO VIS POR, NO VIS SHOW

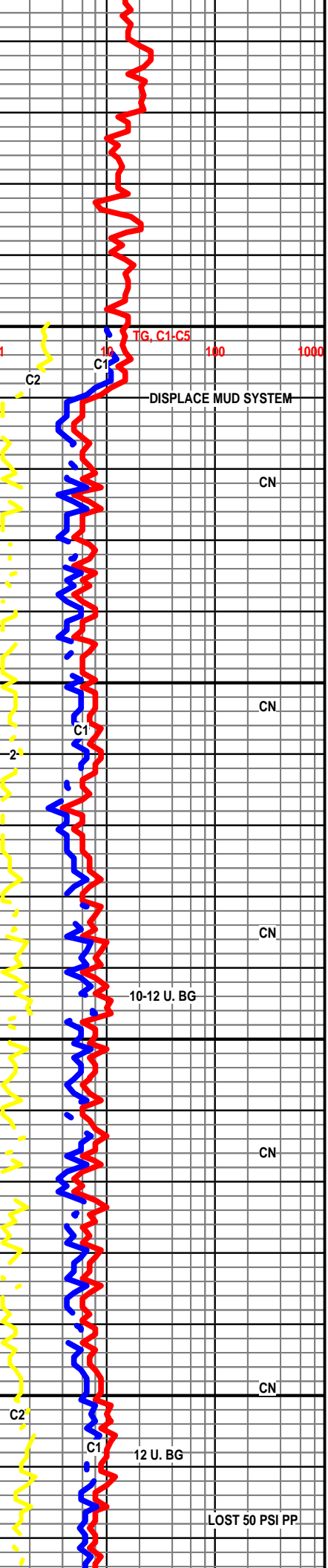
LS- CRM LT TN TN- HD DNS V/ TT SUCRO MTRX, SLI TR  
FOSS FRGS IP, NO FLO, NO VIS POR, NO VIS SHOW

LS- CRM TN BRN- HD DNS F-V/F-XLN TO TT SUCRO  
MTRX, ABTD LRG CALC XLS IP, TO SMLL CALC XLS IP,  
SLI TR FOSS FRGS IP, NO FLO TO TR YEL MIN FLO, NO  
VIS POR, NO VIS SHOW

SH- MD TO SLI DK GY- FRM IP TO V/ SFT PLTY TXT, SLI  
TR SILTY

**TOPEKA 2958' - 986'**

LS- CRM LT TN TN- HD DNS F-V/F-XLN TO S-SUCRO IP,  
SLI TR IMBD SH IP, NO FLO, NO VIS POR, NO VIS SHOW



DISPLACE MUD SYSTEM

CN

CN

CN

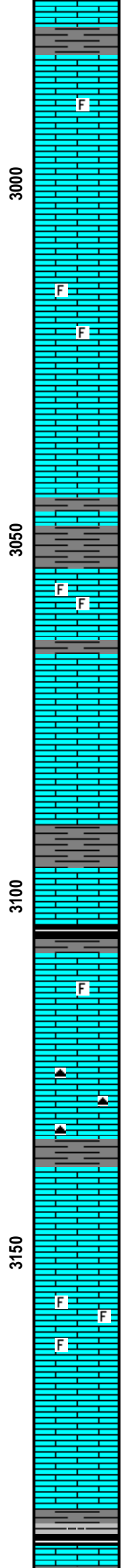
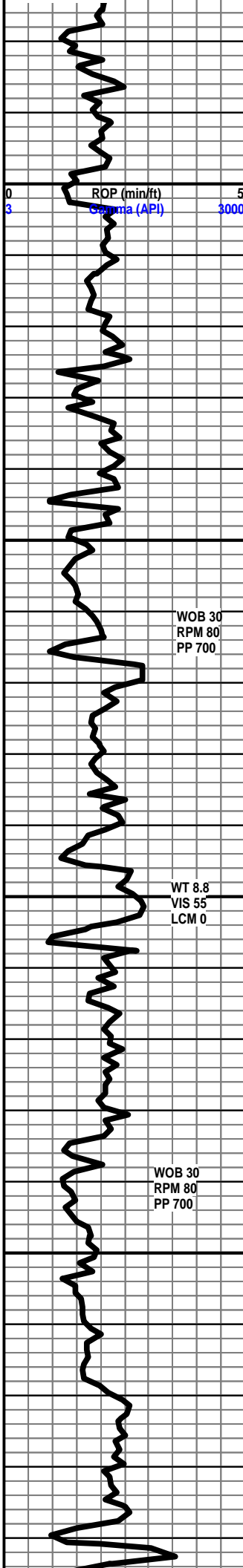
10-12 U. BG

CN

CN

12 U. BG

LOST 50 PSI PP



**SH- LT GY TO LT GRN- FRM BLKY IP SLI SFT SLTY**

LS- DK GY TO TN- HD DNS TO BRITT, V/CRS SUCRO MTRX, ABDT FN TO MD ANG LM GRNS, ABDT IMBD V/F- QURTZ GRNS, THRU, ABDT FNLY DISS PYR THRU, POSS SLI DOLO IP, V/ DLL YEL FLO, PR TO FR INTER-GRN POR IP, WK FLSH TO FR TO GD SLO STRM CUT NO ODOR

LS- OFF WHT CRM- MD HD TO SFT IP, V/ SUCRO SLIS S-CHLKY, TR IMBD LT GY SH IP, DLL YEL MIN FLO IP, NO VIS POR, NO VIS SHOW

LS- OF WHT CRM BFF- HD DNS TO SLI BRITT, MD-XLN TO SUCRO S-CHLKY IP, FOSS FRGS IMBD THRU, LT YEL MIN FLO IP, NO FLO, NO VIS POR, NO VIS SHOW

LS- OFF WHT CRM LT GY- HD DNS TO BRITT, MOTT MD-XLN TO SUCRO S-CHLKY, W/ IMBD LT GY SH IP, HVY TR VRGTD FNLY DISS PYR, NO FLO, NO VIS POR, NO VIS SHOW

SH- LT GY TO V/ DK GY IP, FRM BLKY V/ CALC TO LMY, HVY TR BLK SFT CARB IP

LS- OFF WHT CRM BFF- MD HD TO SFT, V/ SUCRO S-CHLKY MTRX, F-XLN IP, TR FOSS FRGS IP, DLL YEL MIN FLO, NO VIS POR, NO VIS CUT

**LeCOMPTON 3066' - 1094'**

LS- OFF WHT TO RM- MD HD TO BRITT, V/ SUCRO S-CHLKY TO FRM CHLKY MTRX, LY YEL MIN FLO, NO VIS POR, NO VIS SHOW

SH- MD TO DK GY- FRM BLKY V/ CALC TO LMY, HVY TR FOSS FRGS IP

LS- OFF WHT CRM- MD HD TO HD, V/ SUCRO S-CHLKY MTRX F-XLN IP TR IMBD LT GY SH IP, NO FLO, NO VIS POR, NO VIS SHOW

SH- BLK SFT CARB

LS- OFF WHT CRM LT TN TN- HD DNS V/ TT SUCRO TO F-XLN, RE-XLN IP, TR IMBD SH IP, TR FOSS FRGS IP, V/ DLL YEL MIN FLO, NO VIS POR, NO VIS SHOW

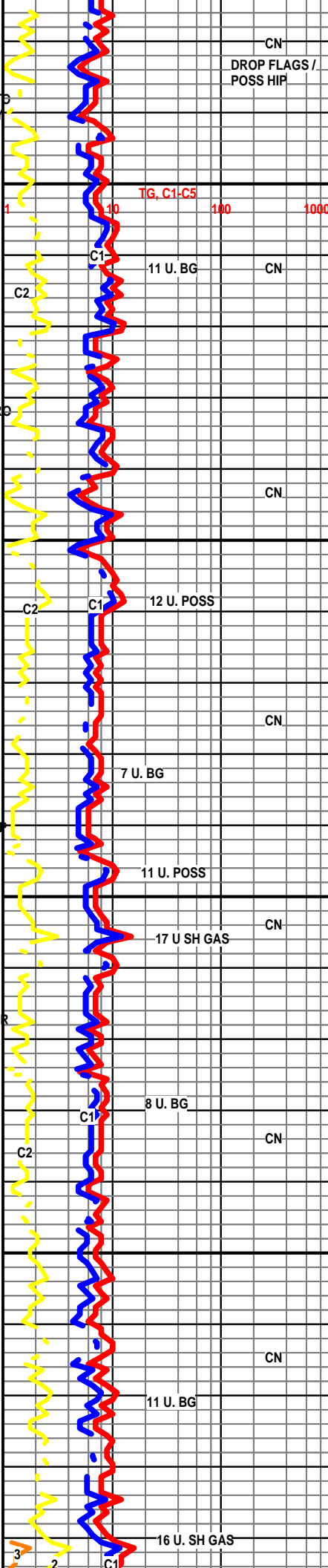
LS- OFF WHT CRM LT TN TN- HD DNS V/ TT SUCRO TO F-XLN, TN GY MOTT CHRT THRU, V/ DLL YEL MIN FLO, NO VIS POR, NO VIS SHOW

LS-OFF WHT CRM BFF- MD HD TO SFT IP, MD-F-XLN RE-XLN MTRX IP, S-SUCRO TO S-CHLKY IP, TR IMBD LT GY SH IP, SLI TR SMLL SCAT CALC XLS IP, NO FLO, PORR MICRO PP POR IP, NO VIS SHOW

LS- OFF WHT CRM BFF- HD DNS TO BRITT, MD-F-XLN RE-XLN I W/ HVY TR SCAT FOSS AND TR FREE FOSS IP, TR SUCRO SLI S-CHLKY IP TR SMLL CALC XLS IP, NO FLO TO TRR MIN FLO IP, NO VIS POR, NO VIS SHOW

**HEEBNER 3188' - 1216'**

SH- BLK SFT CARB



CN  
DROP FLAGS /  
POSS HIP

TIG, C1-C5  
100 1000

11 U. BG CN

12 U. POSS

7 U. BG

11 U. POSS

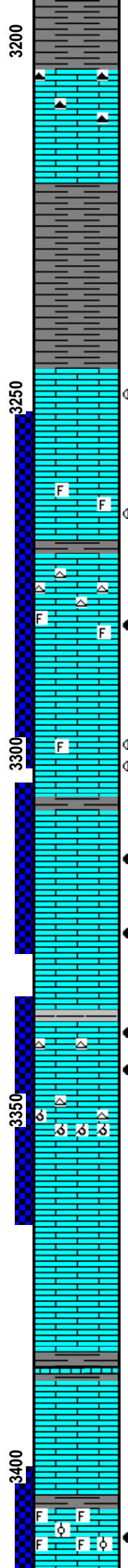
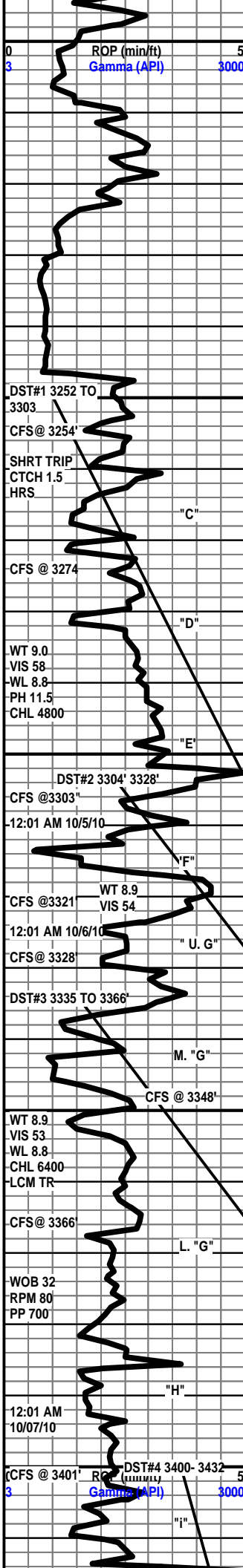
17 U. SH GAS CN

8 U. BG

11 U. BG

16 U. SH GAS





SH- LT GY TO LT GRN- FRM BLKY IP TO SPLNTY SMTH TXT

LS- OFF WHT TO WHT- HD BRITT, MD-F-XLN SLI RE-XLN IP PHNTM FOSS FRGS IP, SLI TR V/ SMALL CALC XLS TR S-CHLKY IP, WHT LT G CHRT, NO FLO, NO VIS OR, NO VIS SHOW

**DOUGLAS 3220' - 1248'**

SH- LT TO MD GY- FRM IP TO V/ SFT SLTY , TR F-GRN QURTZ IMBD IP, TR GLAUC

**LANSING 3246' - 1274'**

LS- LT TN TN ( DUE TO STN I 1 ROCK 100%), HD TT TO BRITT, V/ SUCRO MTRX, SMLL CALC XLS IMBD IP, BRIT YEL FLO, PR SCAT PP POR IP, WK FLSH CUT TO FR SLO STRM CUT

3263 TO 3267' LS- CRM LT TN TN- TN SPTTD SN IN 40%, HD DNS TO BRITT, MD-XLN TO SUCRO SLI S-CHLKY IP, RE-XLN , FOSS FRGS IP, SMALL CALC XLS IP, HVY TR SFT WHT CHLK IMBD AND FREE, DLL YEL GLD FLO THRU, BRIT YEL GLD SPTTD FLO SCAT THRU, PR SCAT MICRO VUG POR, TR OOLMLD POR IP, PR INTER-XLN POR IP TO NO POR, FR FLSH TO FR TO GD SLO STM CUT IN 50%, LT OIL ODOR IN 60 SPL

3281 TO 3282' LS- CRM LT TN TN - ( TN OIL STN IN 70-80) HD TO VV/BRITT, MD-XLN TO V/ CRS SUCRO MTRX, V/ FOSS, OOL IP, SMLL CALC XLS IMBD, TO HVY TR FREE CALC XLS CLSTRS W/ OIL STN IN POR, DLL YEL FLO THRU, BRIT YEL FLO SCAT IN 70%, GD VIS INTER-XLN PO THRU TO TR GD INTER OOL POR IP, FR TO GD INTER- FOSS POR SCAT THRU, V/ GD FLSH CUT TO EXCEL RICH SLO STRM CUT , LT OIL ODOR WET

3298-99' LS - DK TN TN BR DK GY MOTT( V/ DK BRN TO BLK OIL STN IN VUGS), HD DNS , V/ F- CRYPTO-XLN RE-XLN IP SCAT IMBD FOSS FRGS IP, SLI TR MICR OOL IP, NO FLO WET, DLL YELL FLO DRY , PR SCAT MICRO VUG TO VUG ISOLATED POR, DK BRN OIL STN IN VUGS, EXCE INST FLSH CUT TO EXCEL STNG SLO STRM CUT IN ISOLATED VUGS ONLY. STRNG OIL ODOR. BRN LCH ON DISH

3313 TO 3316 LS- CRM LT TN LT BRN- ( TN OIL STN IN 80%), F- MD -XLN RE-XLN MTRX , V/ FOSS, ABTD IMBD MICRO OOL IP, TR MD OOL IP, V/ DLL GLD FLO THRU, SPTTD BRIT YEL FLO IN 40%, FR -GD INTER OOL POR IP, FR INTER-FOSS POR IP, FR SCAT VUG POR IP, V/ LT OIL ODOR, DRY, NO ODOR WET, V/ GD FLSH CUT TO V/ STRNG MLKY STRM CUT, LT TN LCH ON DISH

3324 TO 3326 LS - OFF WHT LT TN ( DUE TO STN SCAT THRU IN 50%) HD DNS TO BRITT IP, F-V/F-XLN RE-XLN IP, TR FOSS IP, V/ SUCRO IP V/ TN STN, V/V/ SMLL CALC XLS VRGTD IP, DLL YEL GLD FLO THRU TO BRIT YEL GLD FLO IN 80%, PR TO FR INTER-XLN POR TO TR MICRO P POR IP FR TO GD FLSH TO FR TO GD SLO STRM MLKY BLU CUT , FR OIL ODOR

3325' 3246' LS- OFF WHT CRM LT TN ( TN DUE TO STN IN 40-50%) HD DNS TO BRITT, MD-F-XLN RE-XLN IP, TR FOSS IP, ABTD SMLL CALC XLS IMBD THRU TO TR MD CALC XLS IMBD IP, TR WHT CHRT IMBD IP, DLL YEL FLO THRU, TR BRIT YEL FLO IP, PR -FR TR GD INTER-XLN POR, SCAT VUG POR, POSS FRACT. POR, V/ GD FLSH CUT TO V/ GD SLO STRM CUT, BRN LCH ON DISH

3350-53, LS- OFF WHT TO CRM, HD DNS TO BRITT, MD-XLN V/ RE-XLN MTRX, V/ OOLMD , SFT WHT CHLK IP, SMLL CALC XLS IMBD THRU, NO FLO, GD VIS OOLMLD POR, SLI TR SCAT PR VUG POR IP, NO VIS CUT OR SHOW

LS- OFF WHT WHT- FRM IP TO SFT ABTD SFR GMMY SFT CHLK, NO FLO, NO VIS POR, NO SHOW

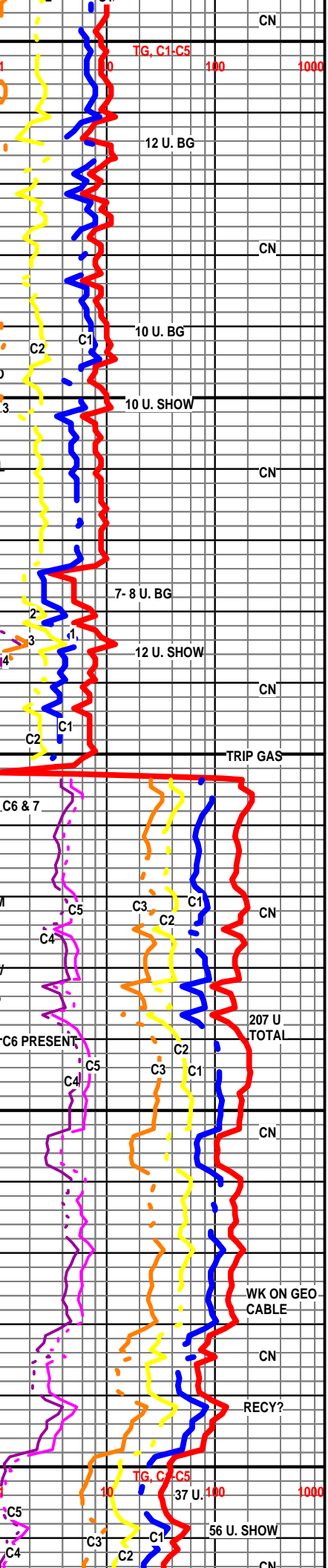
SH- MD TO DK GY- FRM IP TO SLI CARB

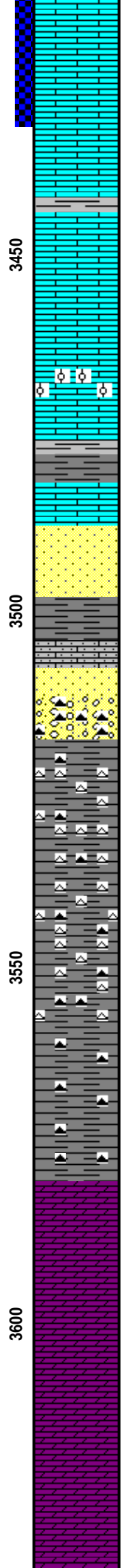
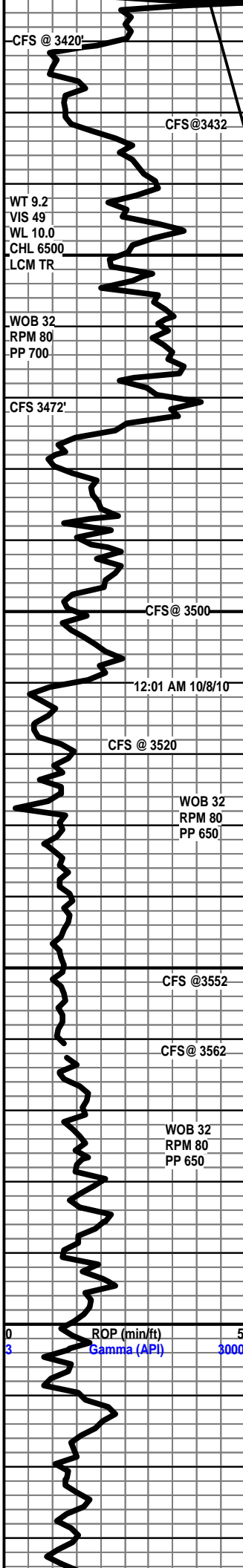
LS- OFF WHT WHT- FRM TO SFT WHT CHLK, NO FLO, NO VIS POR, NO VIS SHOW

LS- LT TN LT GY- HD DNS V/F-CRYPTO-XLN SLI RE-XLN IP TR TN WHT CHRT, LT YEL MIN FLO, NO VIS POR, NO VIS SHOW

SH- LT GRN- FRM BLKY SMTH TXT

3408 TO 3410' LS- CRM LT TN TN LT BRN( DUE TO OIL STN IN 90%) HD V/ BRITT, MD-XLN V/ RE-XLN , V/ FOSS, ABTD IMBD MICRO OOL IP POSS TR OOL AT POINT MTRX, HVY TR SMLL ANG LM GRNS IP GD





SRT, SMALL CALC XLS SCAT THRU, DLL YEL GLD FLO IN 80%, BR YEL GLD SCAT FLO IN 40%, GD VIS INTER-FOSS POR, FR TO GD VU POR, GD VIS INTER-XLN POR, GD VIS INTER-OOL POR IP, EXCEL FLSH CUT TO EXCEL SLO STRM MLKY BLUE CUT, FR OIL ODOR

3421 TO 25 - LS- OFF WHT CRM LT TN OIL STN IN 50%, HD DNS TO BRITT, F-XLN TO MD-XLN RE-XLN MTRX IP, V/ FOSS IP, ABDT IMBD SMLL CALC XLS IP, TR CALC XLS ON ONE FACES OF ROCK W/ STN, DLL YEL GLD FLO IP TO BRIT YEL GLD SPTTD FLO IN 60%, PR-FR-INTER-XLN POR SCAT THRU, FR INTER FOSS POR SCAT IP, ABDT SMLL CALC XLS IN PART, V/ GD INST FLSH CUT TO V/ GD SLO STRM MLKY BLU CUT

3427 TO 3432' LS - LT TN TO BRN( DUE TO DK OIL STN IN 70%), HD DNS TO BRITT IP, MD-F-XLN, RE-XLN MTRX, V/ FOSS, IP, IMBD MICRO OOL IP, TR MD TO LRG OOL FREE, DLLYEL GLD FLO IN 40%, BRIT YEL GLD SPTTD FLO IN 60%, PR TO FR SCAT INTER-OOL POR, TR FR INTER FOSS POR, EXCEL INST AND EXCEL SLO STRM MLKY RICH BLUE CUT, BRN LCH ON DISH

LS- OFF WHT CRM BFF ( LT TN ST IN PART 40-50%), HD DNS TR BRITT MD-XLN RE-XLN, ABDT IMBD MD OOL THRU, AND AT POINT MTRX, ABDT IMBD FOSS IP, SMLL CALC XLS SCAT THRU, DLL YEL FLO THRU T SCAT PR BRIT YEL GLD SPTTD FLO. PR SCAT VUG TO PR INTER-OOL POR, TR GD MICRO VUG POR IP, WK FLSH TO FR SLO STRM CUT, NO ODOR

**BKC 3476' - 1504'**

SH- GRN LT GY- FRM IP TO SFT SMTH TXT

LS- CRM BFF- HD DNS, F-V/F-XLN, SLI RE-XLN IP, TR FOSS FRGS IP, SLI TR IMBD V/F-GRN QURTZ IP, NO FLO, NO VIS POR, NO VIS SHOW

SS- CLR FRSTY - PRED UNCNSLTD GRNS, V/F-F-QURTZ F-QURTZ GRNS S-SRND TO TR S-ANG, SIL TO SLI CALC CMNT IP, NO FLO, POSS DOS SCAT THRU, NO VIS POR, FR TO GD STRM CUT

SH- RED- SFT V/ GMMY TXT TO SLI GRNY TXT

SS-FRSTY - HD V/ FRI, F- V/F- GRN QURTZ S-ANG TO S-RND TO TR RND CLR GRNS, SIL CMNT IP TO CALC CMNT IP, NO FLO, NO VIS POR TO PR VIS INTER- GRN POR, FR VIS SLOS STRM CUT

LS- TN BRN - HD DNS W/ ABDT IMBD DK GY CHRT W/ OIL SOAKED ISOLATED VUGS AND ABDT DOS, NO FLO, INST FLSH CUT TO GD SLO STRM CUT, V/ PR VIS VUG POR

SH- RED - V/ SFT GMMY TXT W/ IMBD RED ORANGE AND WHITE CHRT

SH- RED- V/ SFT GMMY TXT W/ ABDT IMBD WHT RED TRSLCNT PINK CHRT

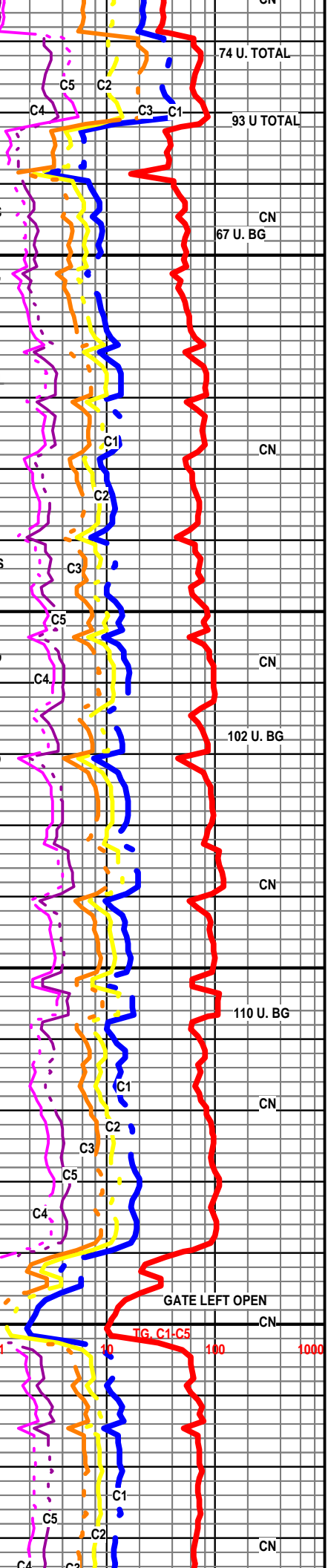
SH- RED - V/ SFT GMMY TXT W/ IMBD RED ORANGE AND WHITE CHRT

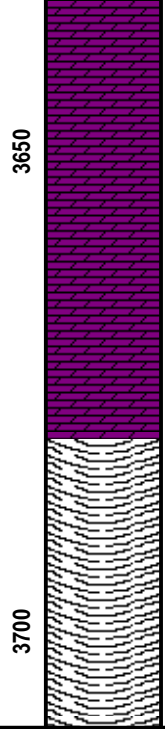
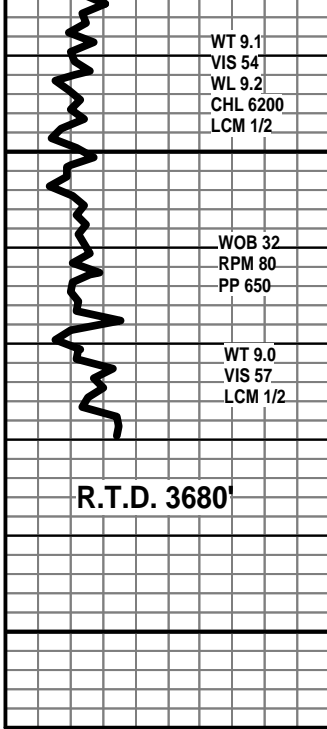
**ARBUCKLE 3579' - 1570'**

DOLO- LT TN TN- HD DNS V/V/F-SUCRO MTRX, V/F-ANG DOLO GRNS IMBD IP, LT YEL MIN FLO, NO VIS POR, NO VIS SHOW

DOLO, WHT CRM IP, HD DNS TO TR BRITT, V/V/F-SUCRO MTRX, HVY TR ABDT SMLL ANG DOLO GRNS IP, HVY TR SFT WHT CHLK IPM,LT YEL MIN FLO V/ PR INTER-XLN POR, NO VIS SHOW

DOLO- WHT- HD DNS IP TO BRITT, MD-CRS SUCRO MTRX, ABDT IMBD MD ANG WHT DOLO GRNS, HVY TR SFT WHT CHLK IMBD IP, LT BRIT YEL MIN FLO THRU, P TO FR VIS INTER-XLN POR, NO VIS SHOW



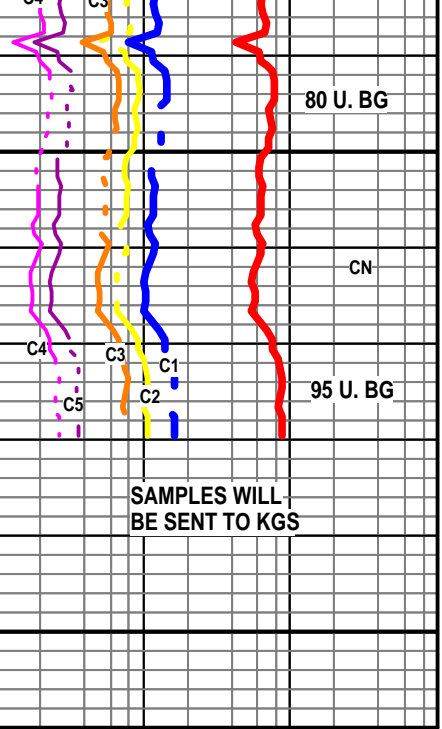


DOLO- WHT- HD DNS IP TO BRITT, F- MD-CRS SUCRO MTRX, ABDT IMBD MD ANG WHT DOLO GRNS, HVY TR SFT WHT CHLK IMBD IP, LT BRIT YEL MIN FLO THRU , P VIS INTER-XLN POR, NO VIS SHOW

DOLO- WHT- PRED A/AB HD DNS IP TO BRITT, MD-CRS SUCRO MTRX, ABDT IMBD MD ANG WHT DOLO GRNS, HVY TR SFT WHT CHLK IMBD IP, LT BRIT YEL MIN FLO THRU , PR TO FR VIS INTER-XLN POR, NO VIS SHOW

T.D @ 9:46 AM 10/08/2010

- CFS
- SHORT TRIP
- CTCH 2.5 HRS
- TOFL





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Samuel Gary Jr & Associates

**Funk #1-8**

1515 Wynkoop  
Ste 700  
Denver Co 80202  
ATTN: Tom Fertal

**8-16s-15w Barton**

Job Ticket: 40856 **DST#: 1**

Test Start: 2010.10.04 @ 23:00:57

## GENERAL INFORMATION:

Formation: **LKC C-E**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:40:22

Time Test Ended: 08:52:22

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 42

**Interval: 3252.00 ft (KB) To 3303.00 ft (KB) (TVD)**

Reference Elevations: 1972.00 ft (KB)

Total Depth: 3303.00 ft (KB) (TVD)

1962.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 6625 Inside**

Press @ Run Depth: 576.68 psig @ 3286.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.10.04

End Date: 2010.10.05

Last Calib.: 2010.10.05

Start Time: 23:00:57

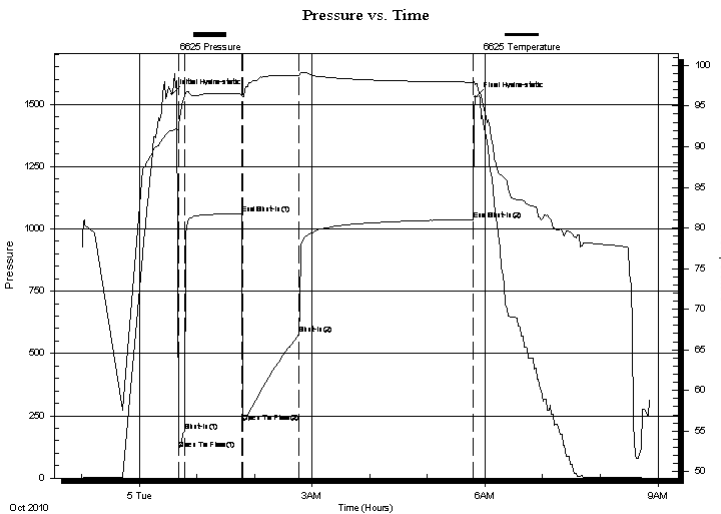
End Time: 08:52:22

Time On Btm: 2010.10.05 @ 00:34:22

Time Off Btm: 2010.10.05 @ 05:50:21

**TEST COMMENT:** IFP-strg bl in 2min Sampler Data:800#PSI 1000ML Gas  
ISIP-1/4"bl bk 1800MLOIL  
FFP-strg bl thru-out 12

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1542.10	92.03	Initial Hydro-static
6	116.70	92.03	Open To Flow (1)
13	189.26	96.30	Shut-In(1)
73	1061.80	96.46	End Shut-In(1)
73	224.65	96.17	Open To Flow (2)
132	576.68	98.80	Shut-In(2)
314	1037.37	97.94	End Shut-In(2)
316	1529.22	97.62	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
186.00	MGO 20%G40%O40%M	2.61
248.00	MGO 20%G60%O20%M	3.48
500.00	CO	7.01
62.00	O&GCW 10%G10%O80%W	0.87
248.00	Water	3.48

## Gas Rates

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





**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Samuel Gary Jr & Associates

**Funk #1-8**

1515 Wynkoop  
Ste 700  
Denver Co 80202  
ATTN: Tom Fertal

**8-16s-15w Barton**

Job Ticket: 40856

**DST#: 1**

Test Start: 2010.10.04 @ 23:00:57

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 58.00 sec/qt  
Water Loss: 7.52 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 3300.00 ppm  
Filter Cake: 1.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: 28 deg API  
Water Salinity: 79000 ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	MGO 20%G40%O40%M	2.609
248.00	MGO 20%G60%O20%M	3.479
500.00	CO	7.014
62.00	O&GCW 10%G10%O80%W	0.870
248.00	Water	3.479

Total Length: 1244.00 ft      Total Volume: 17.451 bbl

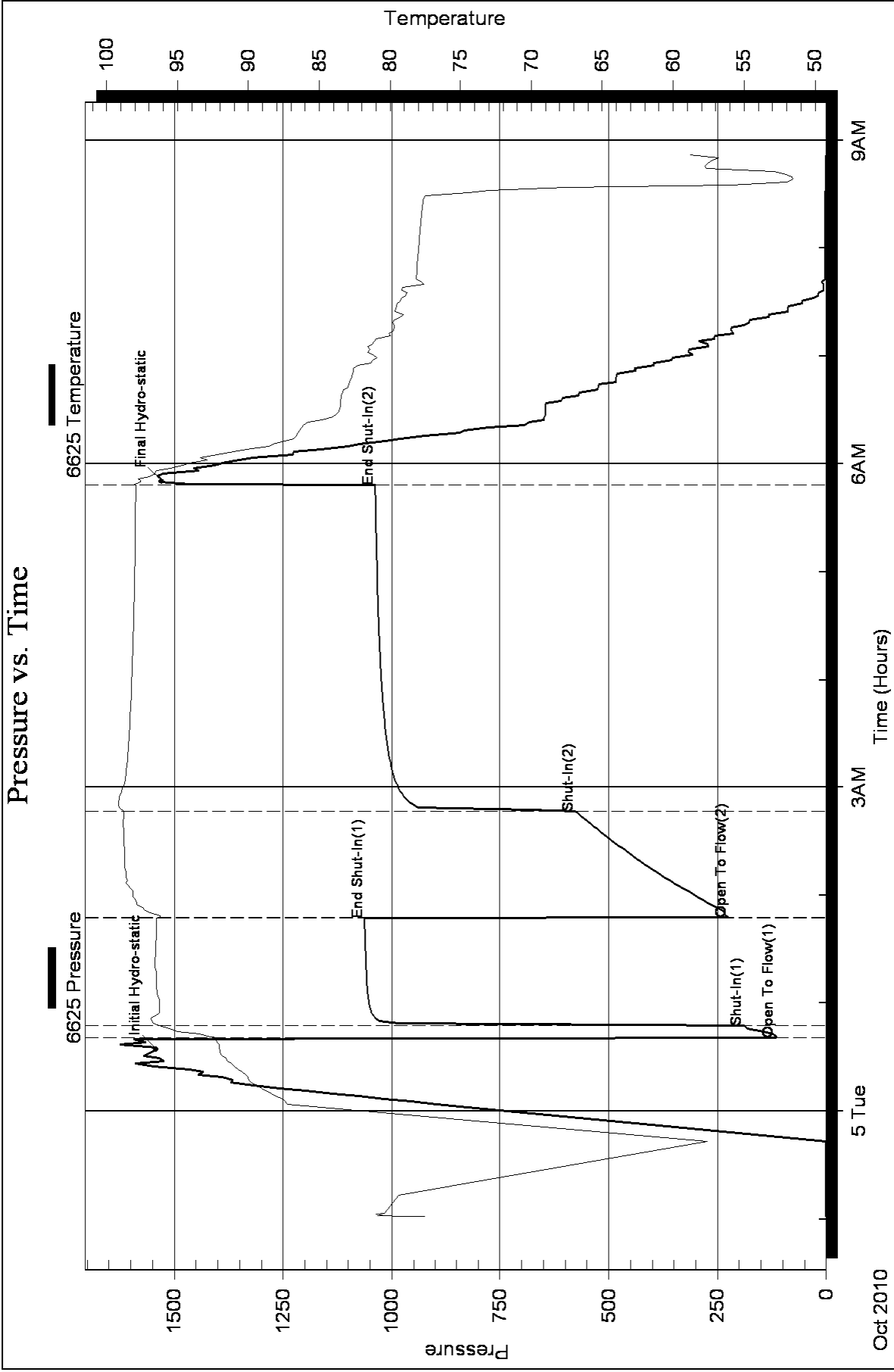
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments: RW .1 @ 65F



### Pressure vs. Time



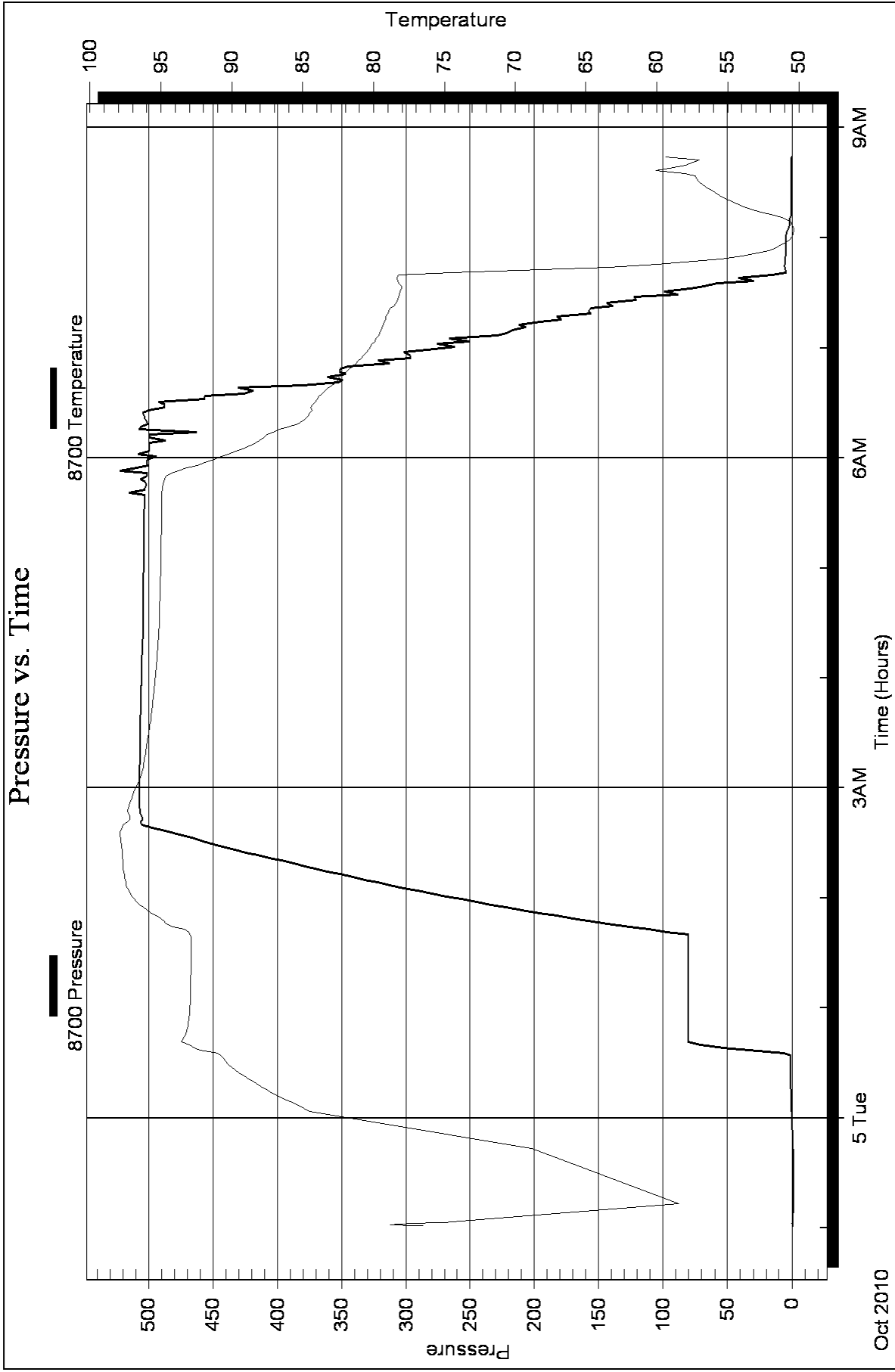
Serial #: 8700

Fluid

Samuel Gary Jr & Associates

8-16s-15w Barton

DST Test Number: 1





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Samuel Gary Jr & Associates

**Funk #1-8**

1515 Wynkoop  
Ste 700  
Denver Co 80202  
ATTN: Tom Fertal

**8-16s-15w Barton**

Job Ticket: 40857 **DST#: 2**

Test Start: 2010.10.05 @ 18:57:30

## GENERAL INFORMATION:

Formation: **LKC F-G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:18:25

Time Test Ended: 03:47:25

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 42

**Interval: 3304.00 ft (KB) To 3328.00 ft (KB) (TVD)**

Reference Elevations: 1972.00 ft (KB)

Total Depth: 3328.00 ft (KB) (TVD)

1962.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 6625 Inside**

Press @ Run Depth: 177.84 psig @ 3306.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.10.05 End Date: 2010.10.06

Last Calib.: 2010.10.06

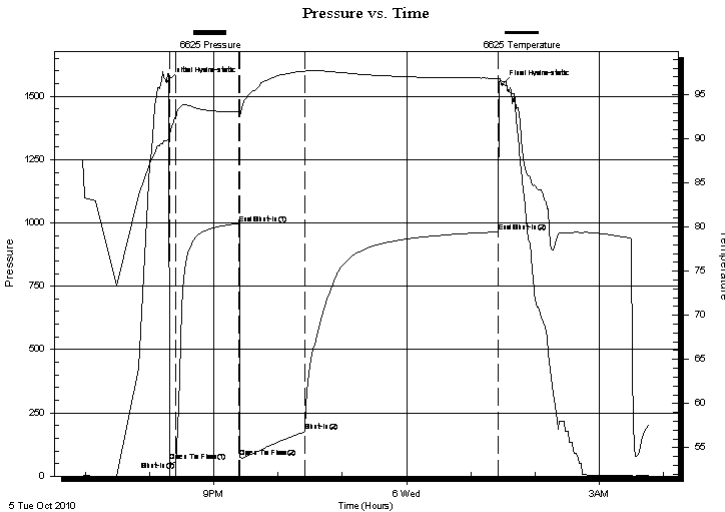
Start Time: 18:57:30 End Time: 03:47:25

Time On Btm: 2010.10.05 @ 20:16:25

Time Off Btm: 2010.10.06 @ 01:29:24

**TEST COMMENT:** IFP-strg bl in 2 min Sampler Data: 850#PSI  
ISIP-no bl bk 2700ML Oil  
FFP-strg bl in 1 min 300 ML Water  
FSIP-strg bl bk

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1556.49	89.84	Initial Hydro-static
2	58.80	89.64	Open To Flow (1)
8	58.80	92.26	Shut-In(1)
67	997.49	93.07	End Shut-In(1)
68	72.76	92.63	Open To Flow (2)
129	177.84	97.66	Shut-In(2)
309	964.25	96.87	End Shut-In(2)
313	1544.35	96.51	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	1155'GIP	0.00
205.00	CO	2.88
124.00	MGO 25%G55%O20%M	1.74
62.00	SOCMW 2%O10%M88%W	0.87

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Samuel Gary Jr & Associates

**Funk #1-8**

1515 Wynkoop  
Ste 700  
Denver Co 80202  
ATTN: Tom Fertal

**8-16s-15w Barton**

Job Ticket: 40857

**DST#: 2**

Test Start: 2010.10.05 @ 18:57:30

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 54.00 sec/qt  
Water Loss: 8.72 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 5400.00 ppm  
Filter Cake: 1.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: 34 deg API  
Water Salinity: 73000 ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	1155'GIP	0.000
205.00	CO	2.876
124.00	MGO 25%G55%O20%M	1.739
62.00	SOCMW 2%O10%M88%W	0.870

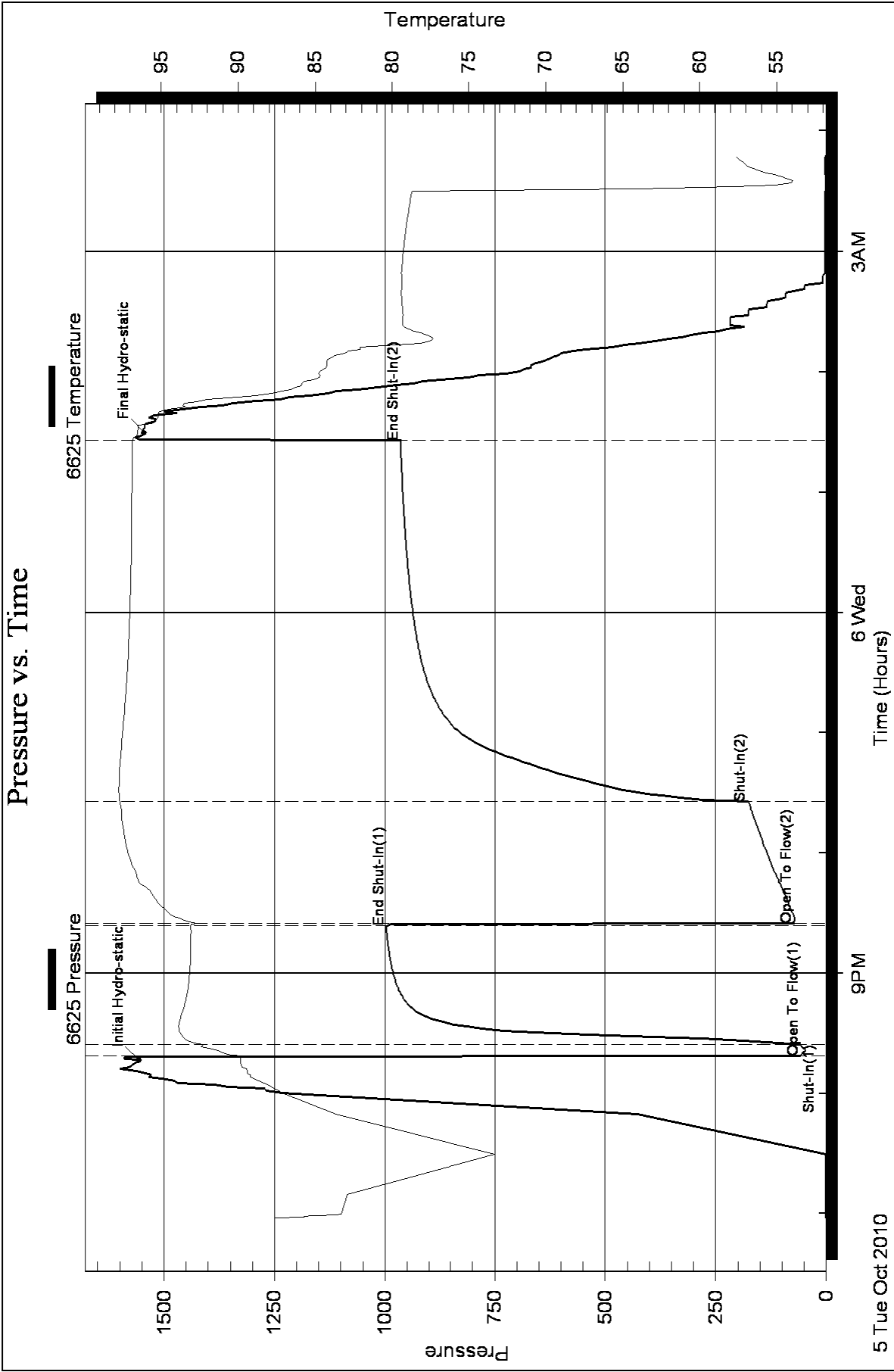
Total Length: 391.00 ft      Total Volume: 5.485 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: RW .13 @ 65F

# Pressure vs. Time





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Samuel Gary Jr & Associates

**Funk #1-8**

1515 Wynkoop  
Ste 700  
Denver Co 80202  
ATTN: Tom Fertal

**8-16s-15w Barton**

Job Ticket: 40858

**DST#: 3**

Test Start: 2010.10.06 @ 13:41:00

## GENERAL INFORMATION:

Formation: **LKC "G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:34:25

Time Test Ended: 20:17:54

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 42

**Interval: 3335.00 ft (KB) To 3366.00 ft (KB) (TVD)**

Reference Elevations: 1972.00 ft (KB)

Total Depth: 3366.00 ft (KB) (TVD)

1962.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 6625 Inside**

Press @ Run Depth: 50.77 psig @ 3337.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.10.06

End Date: 2010.10.06

Last Calib.: 2010.10.06

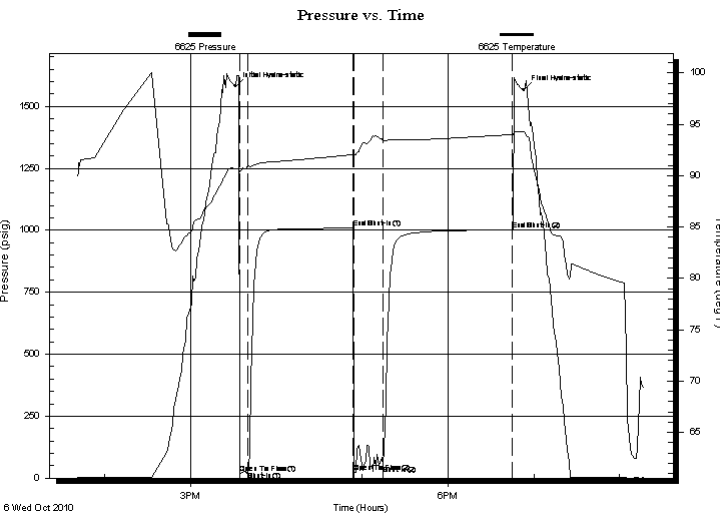
Start Time: 13:41:00

End Time: 20:17:54

Time On Btm: 2010.10.06 @ 15:31:25

Time Off Btm: 2010.10.06 @ 18:52:54

**TEST COMMENT:** IFP-surface bl thru-out Sampler Data:170# PSI  
ISIP-no bl bk 3800ML mud  
FFP-no bl  
FSIP-no bl



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1581.04	90.69	Initial Hydro-static
3	17.81	90.37	Open To Flow (1)
9	27.24	91.00	Shut-In(1)
82	1008.12	92.05	End Shut-In(1)
83	21.68	91.76	Open To Flow (2)
103	50.77	93.43	Shut-In(2)
194	1001.52	94.00	End Shut-In(2)
202	1566.18	94.29	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud w/show of oil	0.07

## Gas Rates

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



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Samuel Gary Jr & Associates

**Funk #1-8**

1515 Wynkoop  
Ste 700  
Denver Co 80202  
ATTN: Tom Fertal

**8-16s-15w Barton**

Job Ticket: 40858

**DST#: 3**

Test Start: 2010.10.06 @ 13:41:00

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 53.00 sec/qt

Water Loss: 8.74 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 6400.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud w/show of oil	0.070

Total Length: 5.00 ft      Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

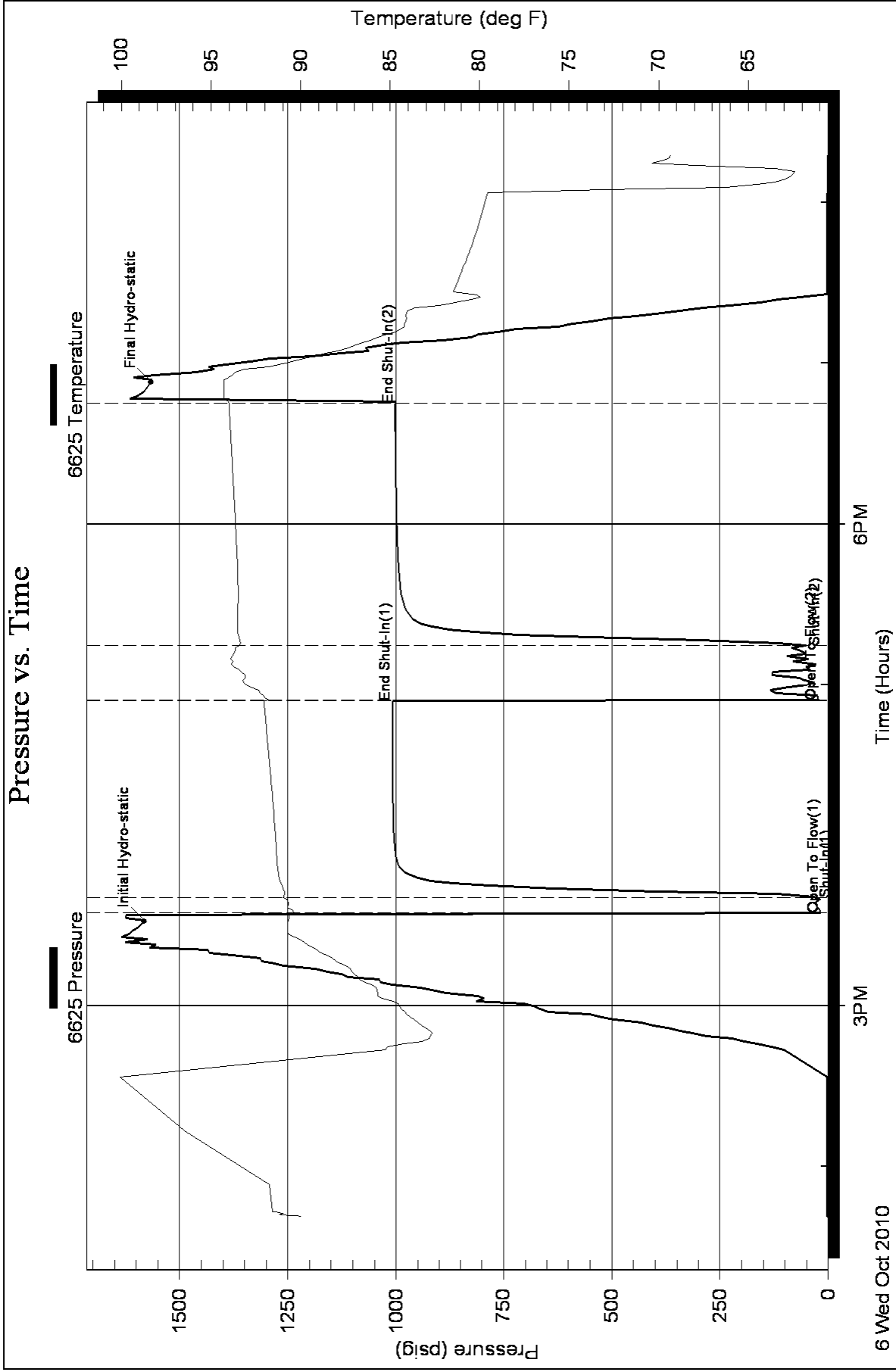
Laboratory Name:

Laboratory Location:

Recovery Comments:



### Pressure vs. Time





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Samuel Gary Jr & Associates

**Funk #1-8**

1515 Wynkoop  
Ste 700  
Denver Co 80202  
ATTN: Tom Fertal

**8-16s-15w Barton**

Job Ticket: 40859 **DST#: 4**

Test Start: 2010.10.07 @ 07:54:56

## GENERAL INFORMATION:

Formation: **LKC I-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:26:21

Time Test Ended: 16:28:51

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 42

**Interval: 3400.00 ft (KB) To 3432.00 ft (KB) (TVD)**

Reference Elevations: 1972.00 ft (KB)

Total Depth: 3432.00 ft (KB) (TVD)

1962.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 6625 Inside**

Press @ Run Depth: 23.07 psig @ 3402.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.10.07 End Date: 2010.10.07

Last Calib.: 2010.10.07

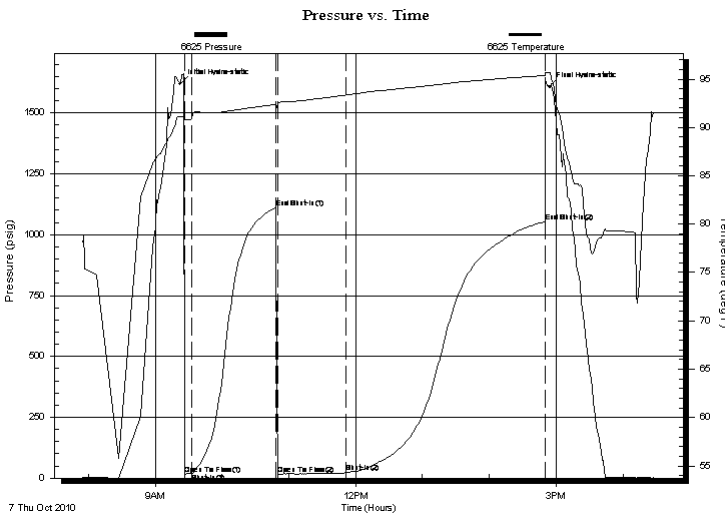
Start Time: 07:54:56 End Time: 16:28:51

Time On Btm: 2010.10.07 @ 09:22:21

Time Off Btm: 2010.10.07 @ 14:53:50

**TEST COMMENT:** IFP-w k bl surface to 1/4"bl      Sampler Data:450#PSI  
ISIP-no bl      1200MLgas  
FFP-w k bl 3/4"to 3"bl

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1620.12	91.12	Initial Hydro-static
4	16.85	90.83	Open To Flow (1)
10	18.17	90.86	Shut-In(1)
86	1111.67	92.39	End Shut-In(1)
88	14.76	92.57	Open To Flow (2)
149	23.07	93.36	Shut-In(2)
328	1053.30	95.36	End Shut-In(2)
332	1606.01	95.67	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	100'GIP	0.00
15.00	HOCM 5%G35%O60%M	0.21

## Gas Rates

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



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Samuel Gary Jr & Associates

**Funk #1-8**

1515 Wynkoop  
Ste 700  
Denver Co 80202  
ATTN: Tom Fertal

**8-16s-15w Barton**

Job Ticket: 40859

**DST#: 4**

Test Start: 2010.10.07 @ 07:54:56

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.53 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3300.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	100'GIP	0.000
15.00	HOCM 5%G35%O60%M	0.210

Total Length: 15.00 ft      Total Volume: 0.210 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

# Pressure vs. Time

