



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1105324
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

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

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical 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

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1105324

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

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 List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------

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
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
----------------	-------	---------	------------	---------------------------------------------------------------------

Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
-------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

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> _____	PRODUCTION INTERVAL: _____ _____
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	LEIKER 1-32
Doc ID	1105324

All Electric Logs Run

DEN-NEUT
INDUCTION
MICRO
SONIC
SPECTRAL GR

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/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

December 19, 2012

CHRISTOPHER MITCHELL
Samuel Gary Jr. & Associates, Inc.
1515 WYNKOOP, STE 700
DENVER, CO 80202

Re: ACO1
API 15-051-26378-00-00
LEIKER 1-32
NE/4 Sec.32-14S-17W
Ellis 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.

Respectfully,
CHRISTOPHER MITCHELL



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: **9-10-12**
 Invoice # 850

P.O.#:
 Due Date: 10/19/2012
 Division: *Russell*

Invoice

Contact:
 Samuel Gary Jr & Associates Inc
Address/Job Location:
 Samuel Gary Jr & Associates Inc
 1815 11th Street
 Great Bend, KS 67530

Reference:
 LEIKER 1-32

Description of Work:
 LONG SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 963.85	No	Bulk Truck Mileage-Job to Nearest Bulk Plant	10	\$61.64	No
Common-Class A	430	\$ 5,537.44	Yes				
8 5/8" Basket	3	\$ 1,000.67	Yes				
Bulk Truck Matl-Material Service Charge	453	\$ 956.33	No				
Calcium Chloride	15	\$ 754.62	Yes				
Flo Seal	100	\$ 211.11	Yes				
8 5/8" Centralizer	3	\$ 202.67	Yes				
Premium Gel (Bentonite)	8	\$ 137.48	Yes				
8 5/8" Top Rubber Plug	1	\$ 111.89	Yes				
Pump Truck Mileage-Job to Nearest Camp	10	\$ 105.34	No				
Baffle Plate Aluminum, 8 5/8"	1	\$ 95.00	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 10,138.04
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,520.71)

SubTotal for Taxable Items:	\$ 6,843.24
SubTotal for Non-Taxable Items:	\$ 1,774.10
Total:	\$ 8,617.33
Tax:	\$ 431.12

6.30% Ellis County Sales Tax

Amount Due: \$ 9,048.46
 Applied Payments:
 Balance Due: \$ 9,048.46

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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RECEIVED

SEP 14 2012

SAMUEL GARY JR.
 & ASSOCIATES, INC.

DRLG COMP W/O LOE GG

Account	8200.117
Well/Prospect	
Deck	
AFE	
Approval	<i>[Signature]</i>
Description	

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

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

No. 850

Cell 785-324-1041

Date	9-6-12	Sec.	32	Twp.	14	Range	17	County	ELLIS	State	KANSAS	On Location		Finish	10:45 AM
------	--------	------	----	------	----	-------	----	--------	-------	-------	--------	-------------	--	--------	----------

Lease	LETKER	Well No.	#1-32	Location	TOWSON 1E - 35 - W/INTD
-------	--------	----------	-------	----------	-------------------------

Contractor	DISCOVERY #2	Owner	SAM GARY JR.
------------	--------------	-------	--------------

Type Job	L. SURFACE	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.		
----------	------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	--

Hole Size	12 1/4"	T.D.	984'	Charge To	SAM GARY JR.
-----------	---------	------	------	-----------	--------------

Csg.	8 5/8 - 23# - NEW	Depth	984'	Street	1515 WYNKOOP - STE. 700
------	-------------------	-------	------	--------	-------------------------

Tbg. Size		Depth		City	DENVER	State	CO, 80202
-----------	--	-------	--	------	--------	-------	-----------

Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.		
------	--	-------	--	----------------------------------------------------------------------------------	--	--

Cement Left in Csg.		Shoe Joint	42'	Cement Amount Ordered	400com - 3cc - 2% GEL 1/4 FLD
---------------------	--	------------	-----	-----------------------	-------------------------------

Meas Line		Displace	60 Bbls	30 SK 342 Used 430 Total	
-----------	--	----------	---------	-------------------------------------	--

EQUIPMENT

Pumptrk #9	No.	Cementer		Common	430
------------	-----	----------	--	--------	-----

Bulktrk #4	No.	Driver	MATT	Poz. Mix	
------------	-----	--------	------	----------	--

Bulktrk #4	No.	Driver	NICK	Gel.	85
------------	-----	--------	------	------	----

Bulktrk #4	No.	Driver	CTSD	Calcium	85
------------	-----	--------	------	---------	----

JOB SERVICES & REMARKS

Remarks:	HEAD & MANIFOLD ON LOCATION	Hulls	
----------	-----------------------------	-------	--

Rat Hole		Salt	
----------	--	------	--

Mouse Hole		Flowseal	100#
------------	--	----------	------

Centralizers	1, 12, 20	Kol-Seal	
--------------	-----------	----------	--

Baskets	2, 13, 21	Mud CLR 48	
---------	-----------	------------	--

D/V or Port Collar		CFL-117 or CD110 CAF 38	
--------------------	--	-------------------------	--

		Sand	
--	--	------	--

		Handling	453
--	--	----------	-----

		Mileage	
--	--	---------	--

CEMENT DIDN'T CIRCULATE! ORDERED 100 SKS MORE - WASHED DOWN LATCH 40 FT CEMENTER 30 SKS CEMENT DID CIRCULATE			
-----------------------------------------------------------------------------------------------------------------------	--	--	--

FLOAT EQUIPMENT

Guide Shoe			
------------	--	--	--

Centralizer	3	8 5/8"	
-------------	---	--------	--

Baskets	3	8 5/8"	
---------	---	--------	--

AFU Inserts			
-------------	--	--	--

Float Shoe			
------------	--	--	--

Latch Down			
------------	--	--	--

		1 - 8 5/8 RUBBER PLUG	
--	--	-----------------------	--

		1 - BAFFLE PLATE	
--	--	------------------	--

Pumptrk Charge		LONG SURFACE	
----------------	--	--------------	--

Mileage		10	
---------	--	----	--

THANK YOU!

X Signature *[Signature]*

Tax	
Discount	
Total Charge	



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: 9/18/2012
 Invoice # 5234
 P.O.#:
 Due Date: 10/18/2012
 Division: Russell

Invoice

Contact:
 Samuel Gary Jr & Associates Inc
Address/Job Location:
 Samuel Gary Jr & Associates Inc
 1815 11th Street
 Great Bend, KS 67530

DRLG COMP W/O LOE GG

Account	8200.141
Well/Prospect	
Deck	
A FE	
Approval	
Description	

RECEIVED

SEP 24 2012

**SAMUEL GARY JR.
& ASSOCIATES, INC.**

Reference:
 LEIKER 1-32

Description of Work:
 PLUG JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 991.39	Yes				
Common-Class A	153	\$ 2,026.59	Yes				
Bulk Truck Mat-Material Service Charge	254	\$ 551.54	Yes				
POZ Mix-Standard	102	\$ 509.42	Yes				
Premium Gel (Bentonite)	9	\$ 159.08	Yes				
Flo Seal	60	\$ 130.29	Yes				
Pump Truck Mileage-Job to Nearest Camp	10	\$ 108.35	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	10	\$ 63.41	Yes				
Dry Hole Plug	1	\$ 60.80	Yes				

Invoice Terms:

Net 30		SubTotal: \$ 4,600.87
	Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:	\$ (690.13)
SubTotal for Taxable Items:		\$ 3,910.74
SubTotal for Non-Taxable Items:		\$ -
Total:		\$ 3,910.74
Tax:		\$ 246.38
Amount Due:		\$ 4,157.11
Applied Payments:		
Balance Due:		\$ 4,157.11

6.30% Ellis 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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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

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

No. 5234

Cell 785-324-1041

Date	9-11-72	Sec.	32	Twp.	14	Range	17	County	Ellis	State	KS	On Location		Finish	7:15 A.M.		
Lease	Leiker	Well No.	1-32			Location						The Tower & Hwy 40 1E 4s Winto					
Contractor	Discovery #2							Owner									
Type Job	Rotary Plug							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.									
Hole Size	7 7/8		T.D.			3590			Charge To							Sam Gary Jr & Associ	
Csg.	Depth							Street									
Tbg. Size	Depth							City								State	
Tool	Depth							City								State	
Cement Left in Csg.	Shoe Joint							The above was done to satisfaction and supervision of owner agent or contractor.									
Meas Line	Displace							Cement Amount Ordered								255 60/40 40/60 1/4 flow	

EQUIPMENT

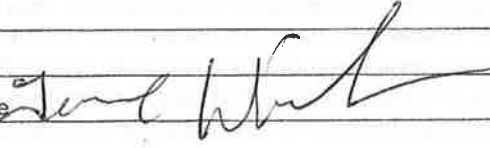
Pumptrk	15	No.	Cement Helper	Craig	Common	153
Bulktrk		No.	Driver	Vick	Poz. Mix	102
Bulktrk	10	No.	Driver	Levy	Gel.	9

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole 30	Salt
Mouse Hole 15	Flowseal 63#
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
1st 3475 255K	Sand
2nd 1100 755K	Handling 264
3rd 500' 1005K	Mileage
4th 40' 105K	

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	1 Day Hole plug
Float Shoe	plug
Latch Down	
Pumptrk Charge	plug
Mileage	10

X Signature 

Tax
Discount
Total Charge



DRILL STEM TEST REPORT

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

1515 Wynkoop St Suite 700 Denver CO
80202

ATTN: Chris Mitchell

Leiker #1-32

32-14s-17w Ellis,KS

Start Date: 2012.09.09 @ 22:38:43

End Date: 2012.09.10 @ 06:38:43

Job Ticket #: 48542 DST #: 1

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

Printed: 2012.09.17 @ 16:21:38



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary & Associates, Inc
1515 Wynkoop St Suite 700 Denver CO 80202
ATTN: Chris Mitchell

32-14s-17w Ellis,KS
Leiker #1-32
Job Ticket: 48542 **DST#: 1**
Test Start: 2012.09.09 @ 22:38:43

GENERAL INFORMATION:

Formation: **LKC I-K**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:28:43
Time Test Ended: 06:38:43
Interval: **3383.00 ft (KB) To 3435.00 ft (KB) (TVD)**
Total Depth: 3435.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Jeff Brown
Unit No: 44
Reference Elevations: 1934.00 ft (KB)
1926.00 ft (CF)
KB to GR/CF: 8.00 ft

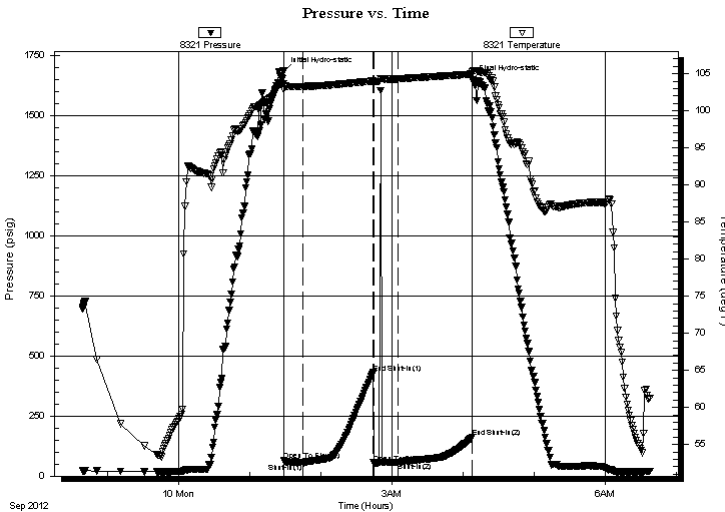
Serial #: 8321

Inside

Press @ Run Depth: 57.52 psig @ 3419.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.09.09 End Date: 2012.09.10 Last Calib.: 2012.09.10
Start Time: 22:38:44 End Time: 06:37:43 Time On Btm: 2012.09.10 @ 01:28:13
Time Off Btm: 2012.09.10 @ 04:07:43

TEST COMMENT: IFP-Weak surface blow built to 1/2"
ISI-Dead no blow back
FFP-Dead flushed tool w eak surface blow
FSI-Dead no blow back

PRESSURE SUMMARY



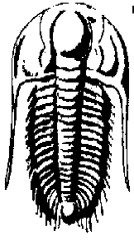
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1685.00	103.62	Initial Hydro-static
1	64.29	102.89	Open To Flow (1)
17	55.26	103.29	Shut-In(1)
76	430.60	104.01	End Shut-In(1)
76	55.40	103.90	Open To Flow (2)
97	57.52	104.31	Shut-In(2)
159	160.54	104.94	End Shut-In(2)
160	1649.54	105.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud w ith oil spots	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary & Associates, Inc
1515 Wynkoop St Suite 700 Denver CO 80202
ATTN: Chris Mitchell

32-14s-17w Ellis,KS
Leiker #1-32
Job Ticket: 48542 **DST#: 1**
Test Start: 2012.09.09 @ 22:38:43

GENERAL INFORMATION:

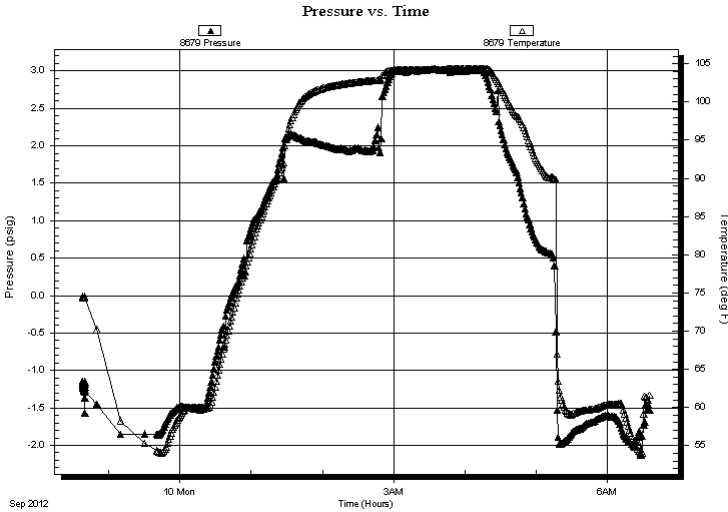
Formation: **LKC I-K**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:28:43
Time Test Ended: 06:38:43
Interval: **3383.00 ft (KB) To 3435.00 ft (KB) (TVD)**
Total Depth: 3435.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Jeff Brown
Unit No: 44
Reference Elevations: 1934.00 ft (KB)
1926.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8679 Fluid

Press@RunDepth: psig @ 3349.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.09.09 End Date: 2012.09.10 Last Calib.: 2012.09.10
Start Time: 22:38:01 End Time: 06:35:30 Time On Btm:
Time Off Btm:

TEST COMMENT: IFP-Weak surface blow built to 1/2"
ISI-Dead no blow back
FFP-Dead flushed tool w eak surface blow
FSI-Dead no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud w ith oil spots	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary & Associates, Inc

32-14s-17w Ellis,KS

1515 Wynkoop St Suite 700 Denver CO 80202

Leiker #1-32

Job Ticket: 48542

DST#: 1

ATTN: Chris Mitchell

Test Start: 2012.09.09 @ 22:38:43

Tool Information

Drill Pipe:	Length: 3346.00 ft	Diameter: 3.80 inches	Volume: 46.94 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 47.09 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3383.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	87.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3349.00	
Recorder	0.00	8679	Fluid	3349.00	
Stubb	5.00			3354.00	
Shut In Tool	5.00			3359.00	
Sampler	2.00			3361.00	
Hydraulic tool	5.00			3366.00	
Jars	5.00			3371.00	
Safety Joint	3.00			3374.00	
Packer	4.00			3378.00	35.00 Bottom Of Top Packer
Packer	5.00			3383.00	
Stubb	1.00			3384.00	
Perforations	2.00			3386.00	
Change Over Sub	1.00			3387.00	
Drill Pipe	31.00			3418.00	
Change Over Sub	1.00			3419.00	
Recorder	0.00	8321	Inside	3419.00	
Recorder	0.00	8737	Outside	3419.00	
Perforations	13.00			3432.00	
Bullnose	3.00			3435.00	52.00 Bottom Packers & Anchor

Total Tool Length: 87.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary & Associates, Inc

32-14s-17w Ellis,KS

1515 Wynkoop St Suite 700 Denver CO 80202

Leiker #1-32

Job Ticket: 48542

DST#: 1

ATTN: Chris Mitchell

Test Start: 2012.09.09 @ 22:38:43

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud w ith oil spots	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

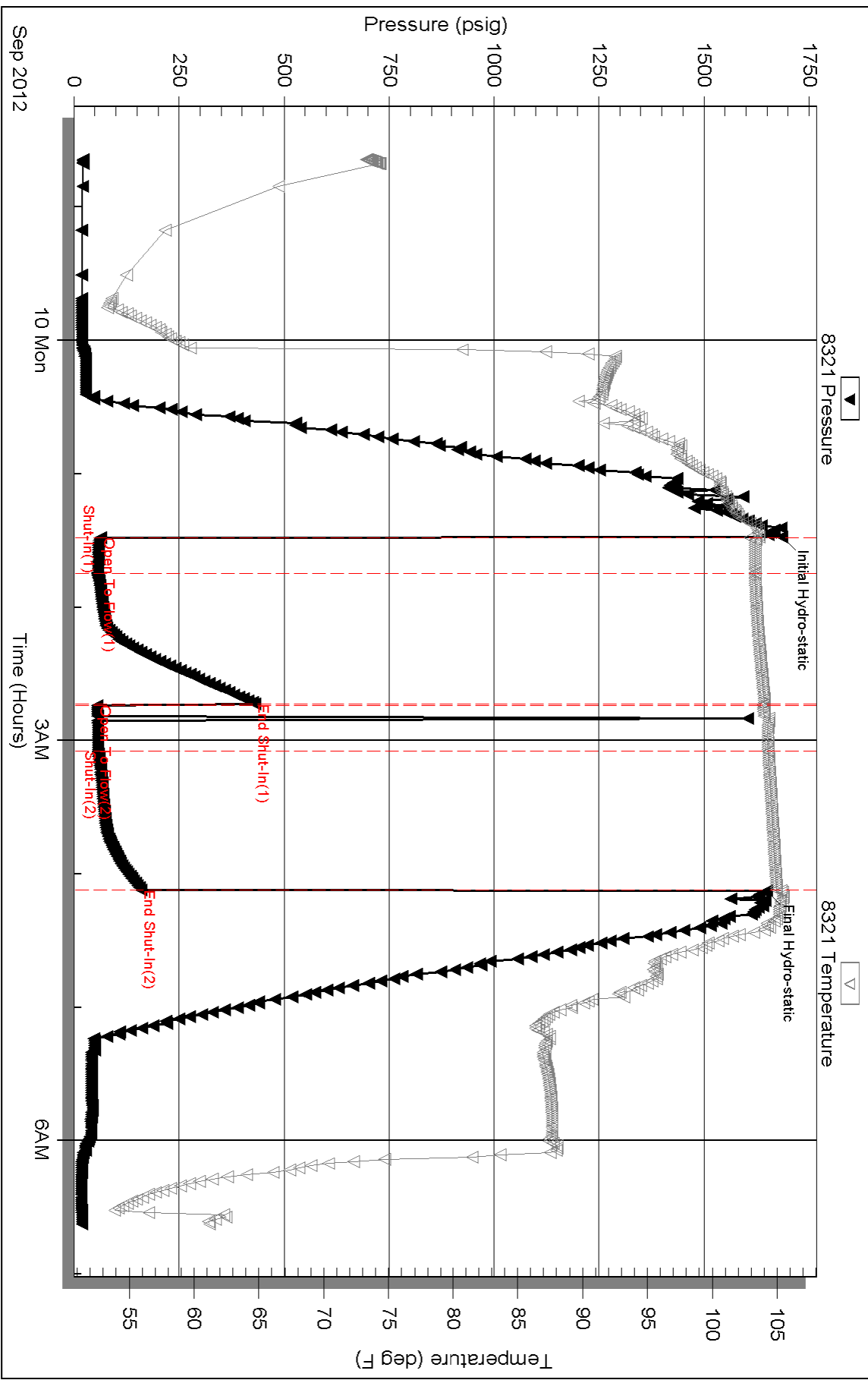
Laboratory Name:

Laboratory Location:

Recovery Comments: 2000 ML of total fluid 50 PSI

2000 ML of mud w ith oil spots

Pressure vs. Time



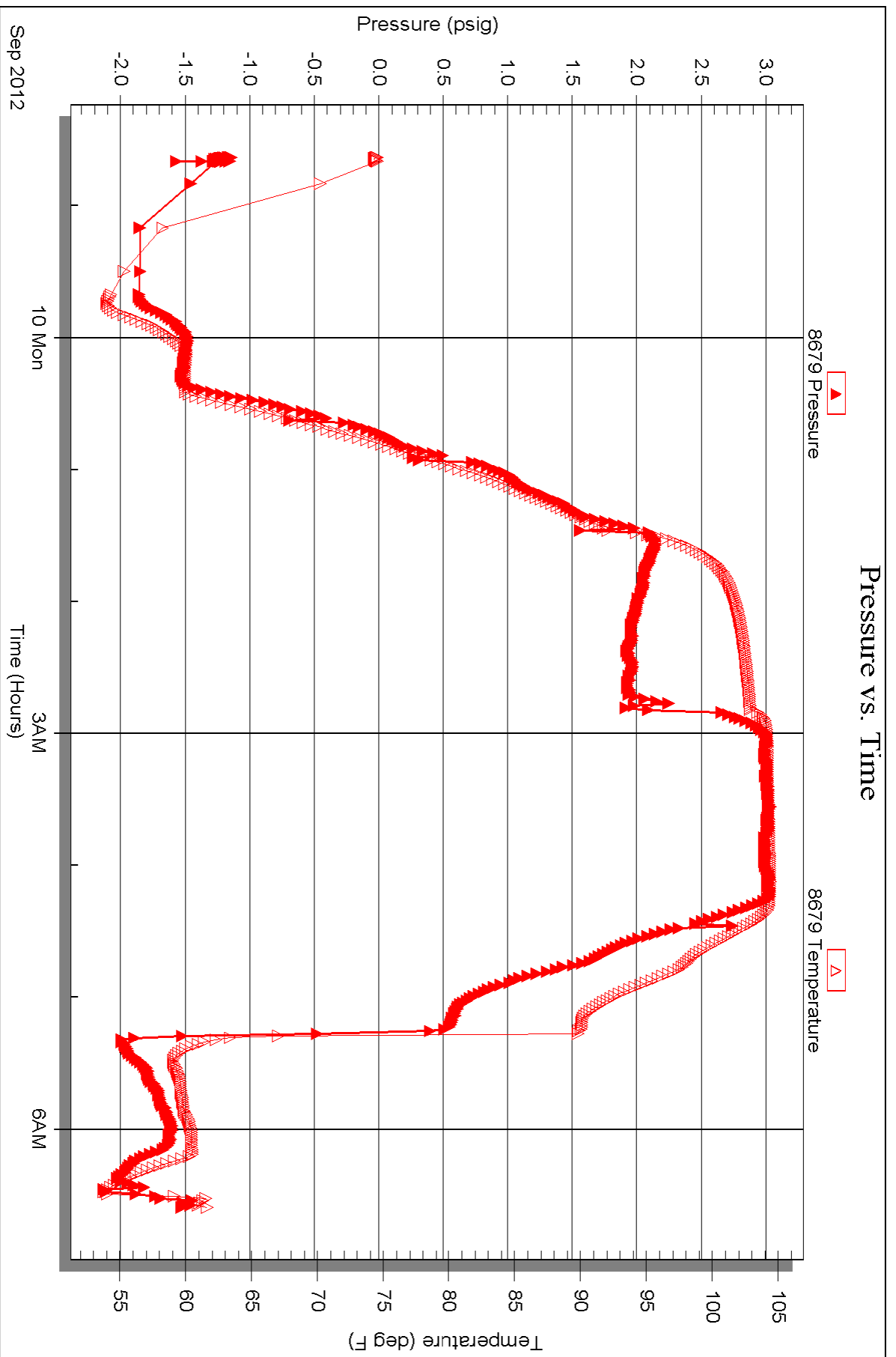
Serial #: 8679

Fluid

Samuel Gary & Associates, Inc

Leiker #1-32

DST Test Number: 1

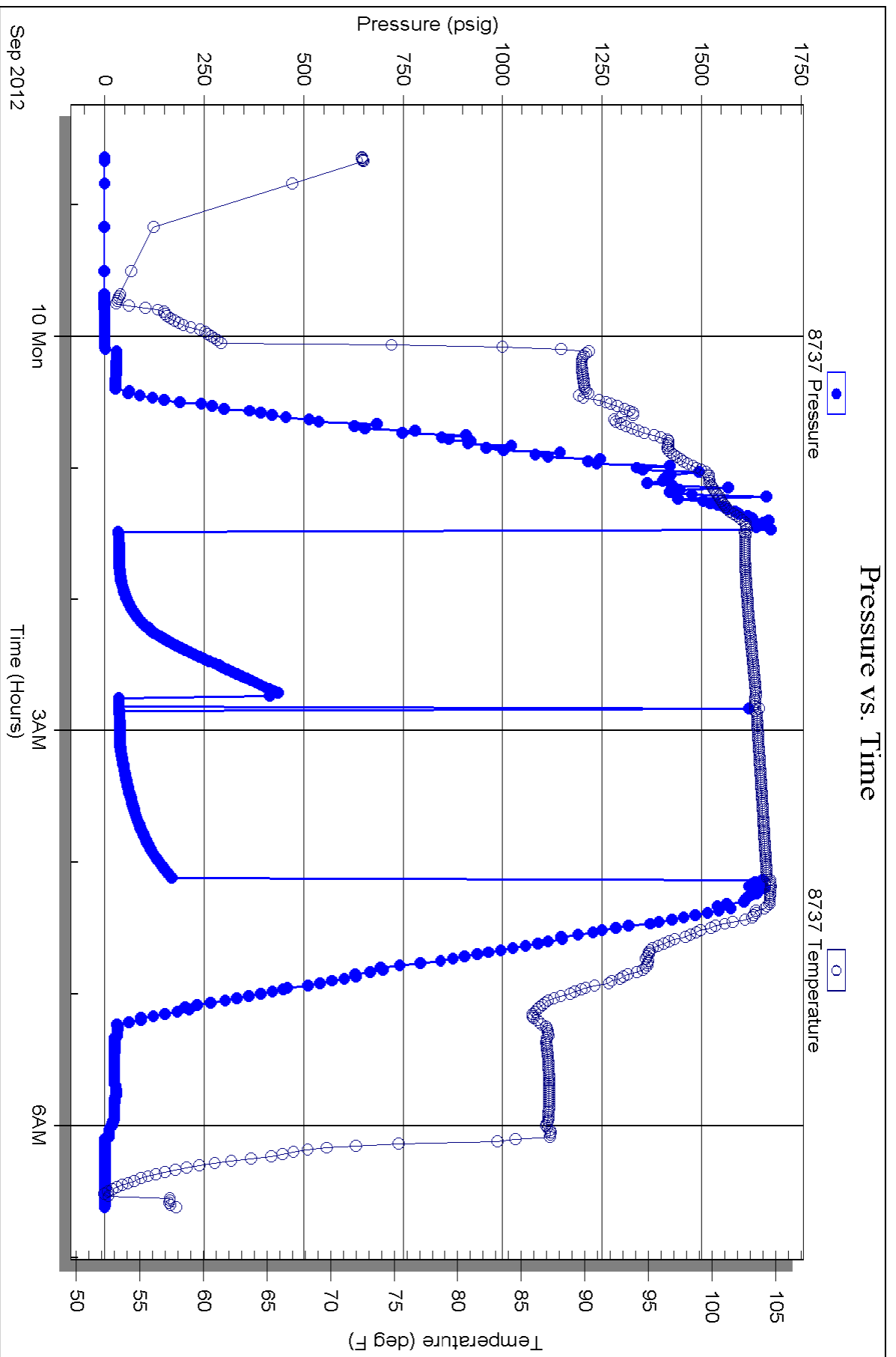


Serial #: 8737

Outside Samuel Gary & Associates, Inc

Leiker #1-32

DST Test Number: 1





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48542

Well Name & No. Leiker 1-32 Test No. 1 Date 9-9-12
 Company Samuel Gary IR + Associates, INC Elevation 1934 KB 1924 GL
 Address 1515 Wynkoop ST suite 700 Denver CO 80202
 Co. Rep / Geo. Chris Mitchell Rig Discovery #2
 Location: Sec. 32 Twp. 14s Rge. 17 W Co. ELLIS State KS

Interval Tested 3383 - 3435 Zone Tested LKC-I-K
 Anchor Length 52 Drill Pipe Run 3346 Mud Wt. 8.8
 Top Packer Depth 3378 Drill Collars Run 31 Vis 52
 Bottom Packer Depth 3383 Wt. Pipe Run 0 WL 9.6
 Total Depth 3435 Chlorides 3400 ppm System LCM NA

Blow Description IFP-weak surface Blow Built to 1/2 IN
ISI-Dead No Blow Back
FFP-Dead Flushed Tool weak surface Blow
FST-Dead No Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>MUD with oil spots</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 105 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>11685</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>21:47</u>
(B) First Initial Flow <u>67</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>22:38</u>
(C) First Final Flow <u>55</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1:30</u>
(D) Initial Shut-In <u>431</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>4:05</u>
(E) Second Initial Flow <u>55</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>6:38</u>
(F) Second Final Flow <u>58</u>	<input checked="" type="checkbox"/> Mileage <u>18 RT</u> 27.90	Comments _____
(G) Final Shut-In <u>1161</u>	<input checked="" type="checkbox"/> Sampler <u>250</u>	_____
(H) Final Hydrostatic <u>11650</u>	<input type="checkbox"/> Straddle _____	_____
Initial Open <u>15</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
Final Flow <u>20</u>	<input checked="" type="checkbox"/> Extra Recorder <u>200</u>	<input type="checkbox"/> Extra Copies _____
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby _____	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility _____	Total <u>1952.90</u>
	Sub Total <u>1952.90</u>	MP/DST Disc't _____

Approved By _____ Our Representative Jeff Brown

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING, INC.

P.O. Box 362 • Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 48542 Date 9-9-12
 Company Name Samuel Gary JR & Associates INC
 Lease Leiker #1-32 Test No. 1
 County ELLIS Sec. 32 Twp. 14S Rng. 17W

SAMPLER RECOVERY

Gas _____ ML
 Oil _____ ML
 Mud 2000 ML
 Water _____ ML
 Other _____ ML
 Pressure 50 PSI ML
 Total 2000 ML

PIT MUD ANALYSIS

Chlorides _____ ppm.
 Resistivity _____ ohms @ _____ F
 Viscosity _____
 Mud Weight _____
 Filtrate _____
 Other _____
MUD WITH OIL SPOTS

SAMPLER ANALYSIS

Resistivity _____ ohms @ _____ F
 Chlorides _____ ppm.
 Gravity _____ corrected @60F

PIPE RECOVERY

TOP
 Resistivity _____ ohms @ _____ F
 Chlorides _____ ppm.
MIDDLE
 Resistivity _____ ohms @ _____ F
 Chlorides _____ ppm.
BOTTOM
 Resistivity _____ ohms @ _____ F
 Chlorides _____ ppm.



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

Well Name: Leiker 1-32
 Location: Sec. 32 - 14S - 17W Ellis County, Kansas
 License Number: 15-051-26378-0000
 Spud Date: Sept 5, 2012
 Surface Coordinates: 1150 FNL / 600 FEL
 Region: WILDCAT
 Drilling Completed: Sept 10, 2012

Bottom Hole Coordinates:
 Ground Elevation (ft): 1926' K.B. Elevation (ft): 1934'
 Logged Interval (ft): 2900' To: 3590' Total Depth (ft): 3590'
 Formation:
 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 Wynkoop, Ste. # 700
 Denver, Colo. 80202
 Geo: Chris Mitchell

GEOLOGIST

Name: Aaron Suelter
 Company: Earth Tech OGL, Inc.
 Address: PO Box 683
 Hooker, Okla. 73945
 Off. 888-543-8378 Cell: 620-600-0777

DST's Report

DST#1 3383'-3435' 15 60 20 60
 IF- WEAK SURFACE BLOW, BUILT TO 1/2 INCH/ ISI- NO BLO/ FF- DEAD FLUSHED TOOL, WEAK SURFACE BLOW/ FSI- NO BLO
 IH-1685, FH-1650/ IF- 64 TO 55/ FF- 55 TO 58/ ISI- 431, FSI- 161
 SAMPLER- 5' MUD W/ OIL SPOTS, 100% MUD/ BHT 105

DST's Report

ROCK TYPES

Anhy	Gyp	Shgy	Sandylms
Bent	Igne	Sltst	Shale
Brec	Lmst	Ss	Sltstn
Cht	Meta	Till	Shlyslts
Clyst	Mrlst	Carb sh	Sltys
Coal	Salt	Dol	Lms
Congl	Shale	Dtd	
Dol	Shcol	Gry sh	

ACCESSORIES

MINERAL	Salt	Fossil	Clystn
Anhy	Sandy	Gastro	Dol
Arggrn	Silt	Oolite	Grysh
Arg	Sil	Ostra	Gryslt
Bent	Sulphur	Pelec	Lms
Bit	Tuff	Pellet	Sandylms
Brecfrag	Chlorite	Pisolite	Sh
Calc	Dol	Plant	Sltstn
Carb	Sand	Strom	
Chtdk	Silty	Fuss	
Chtlt		Oomold	
Dol	FOSSIL	STRINGER	TEXTURE
Feldspar	Algae	Anhy	Boundst
Ferrpel	Amph	Arg	Chalky
Ferr	Belm	Bent	Cryxln
Glau	Bioclst	Coal	Earthy
Gyp	Brach	Dol	Finexln
Hvymin	Bryozoa	Gyp	Grainst
Kaol	Cephal	Ls	Lithogr
Marl	Coral	Mrst	Microxln
Minxl	Crin	Sltstrg	Mudst
Nodule	Echin	Ssstrg	Packst
Phos	Fish	Carbsh	Wackest
Pyr	Foram		

OTHER SYMBOLS

POROSITY TYPE

- E Earthy
- B Fenest
- F Fracture
- X Inter
- A Moldic
- O Organic
- P Pinpoint
- V Vuggy

SORTING

- W Well
- M Moderate
- P Poor

ROUNDING

- R Rounded
- r Subrnd
- a Subang

- A Angular

OIL SHOWS

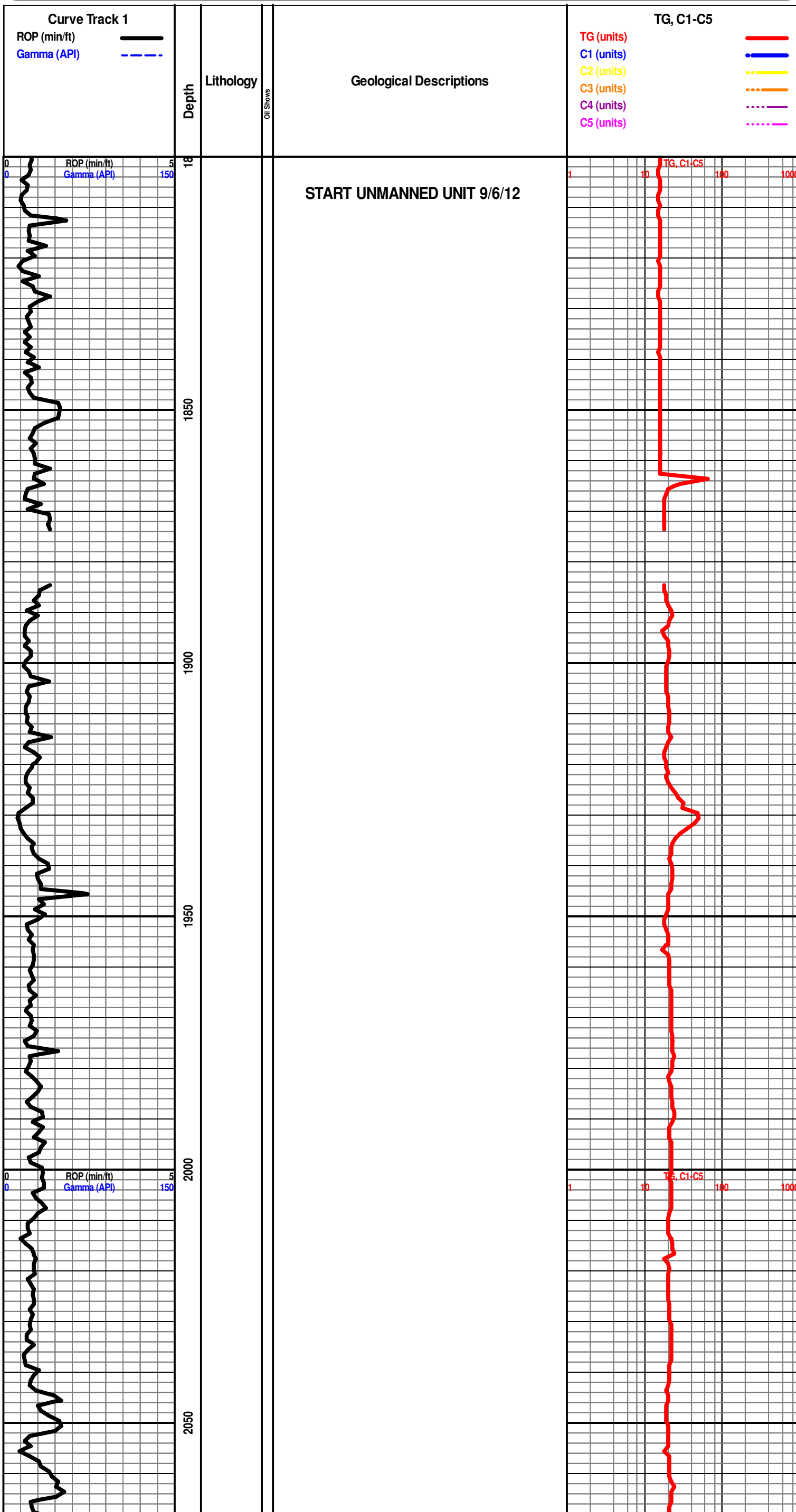
- Even
- Spotted
- Ques
- Dead
- ⊠ Gas show

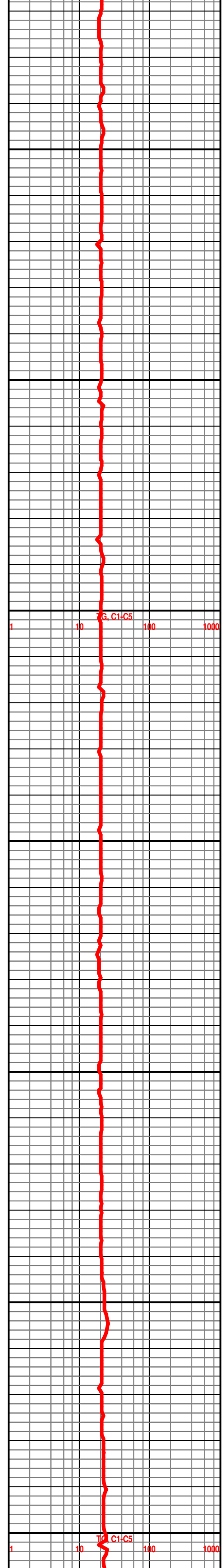
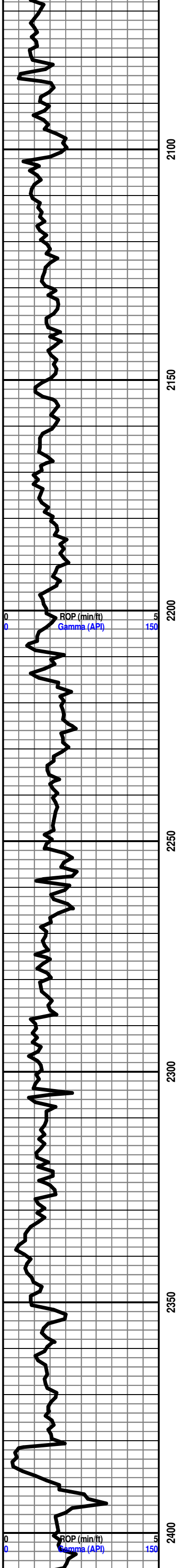
INTERVALS

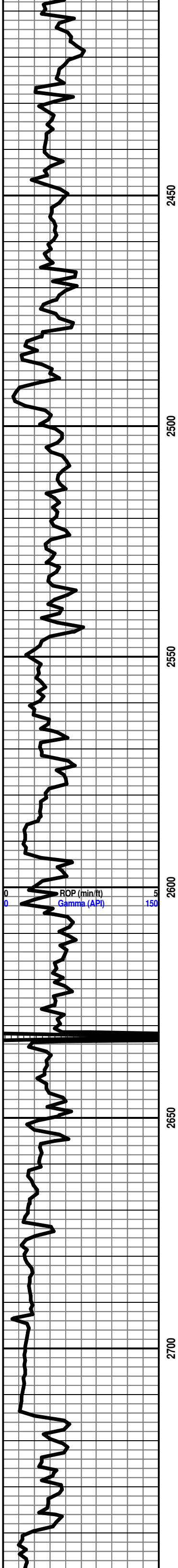
- Core
- Dst
- Dst

EVENTS

- ▽ Rft
- ▴ Sidewall







2450

2500

2550

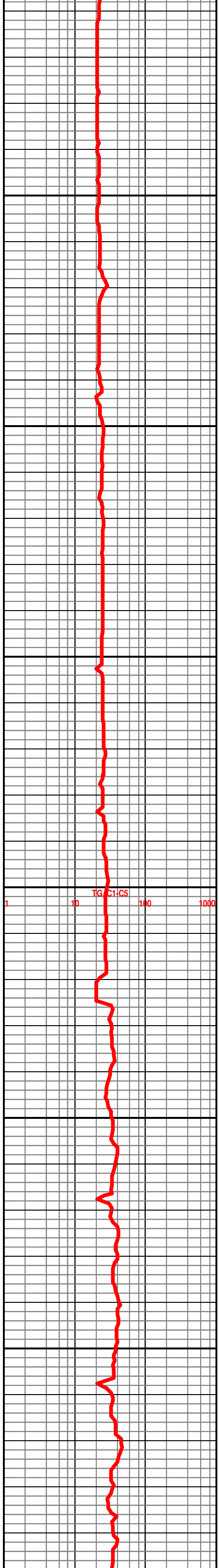
2600

2650

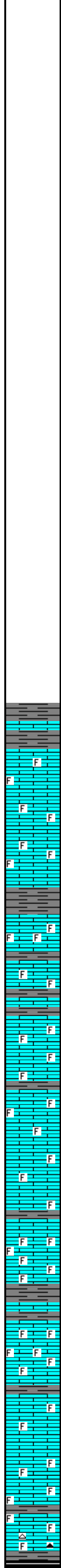
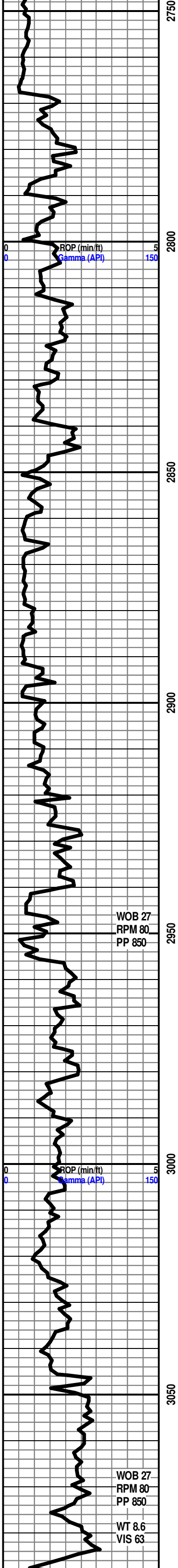
2700

ROP (min/ft)
Gamma (API)

BRS 2714' - 780'



TG, C1-C5



HOWARD 2892' -958'

START 24 HOUR MANNED UNIT 9/8/12

SH- GRN BRWN TO GY, FRM BLKY, SMTH TXT

LS- TN TO DK TN, HD DNS TO BRIT IP, F XLN SUCRO MTRX, TR IMBD FOSS FRG IP, PHNTM FOSS IP, TR IMBD CALC XLS THRU, NO VIS FLO, GD PHNTM FOSS POR IN 5%, NO VIS SHOW

LS- TN TO DK TN, HD DNS TO BRIT IP, F XLN SUCRO MTRX, S-CHLKY IP, ABDT IMBD FOSS FRG IP, IMBD CALC XLS THRU, NO VIS FLO, NO VIS POR, NO VIS SHOW

SH- GRN LT GY TO GY, FRM BLKY, SMTH TO SLTY TXT

TOPEKA 2946' -1012'

LS- GY TO TN, HD DNS TO BRIT, F XLN SUCRO MTRX, S-CHLKY IP, ABDT IMBD FOSS FRG, TR IMBD CALC XLS IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- TN TO DK TN, HD DNS TO BRIT, F XLN SUCRO MTRX, S-CHLKY, IMBD FOSS FRG IP, IMBD CALC XLS IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- GY TO TN, HD DNS, F TO V/F XLN MTRX, S-CHLKY IP, IMBD FOSS FRG THRU, TR FREE FOSS IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- GY TO TN, HD DNS TO BRIT IP, F XLN RE-XLN MTRX, S-SUCRO IP, IMBD FOSS FRG IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- GY TO TN, HD DNS TO BRIT, F XLN RE-XLN MTRX, S-SUCRO IP, TR IMBD FOSS FRG IP, SLI TR IMBD CALC XLS IP, SLI TR FREE FOSS IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- GY TO TN HD DNS TO BRIT, V/F TO F XLN MTRX, S-SUCRO, ABDT IMBD FOSS FRG THRU, SLI TR IMBD CALC XLS IP, TR SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

SH- GY TO DK GY, FRM BLKY, SLTY TXT

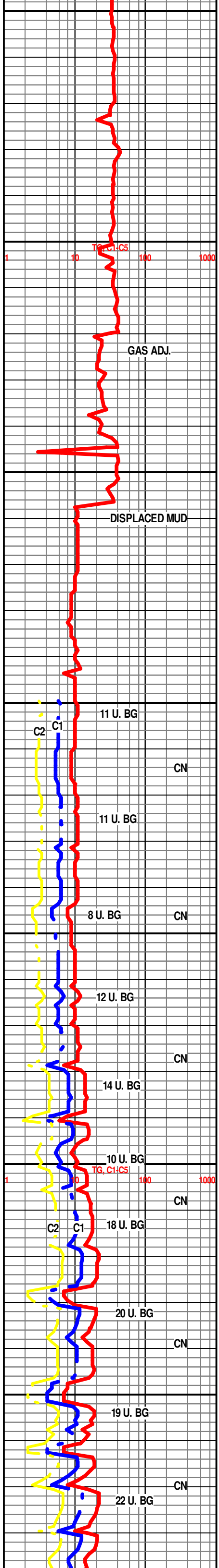
LE COMPTON 3049' -1115'

LS- OFF WHT TO LT TN, HD DNS, V/F TO F XLN MTRX, S-SUCRO IP, IMBD FOSS FRG THRU, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- LT TN TO TN, HD DNS, F XLN MTRX, S- SUCRO, RE-XLN IP, IMBD FOSS FRG THRU, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- CRM TO LT TN, HD DNS TO BRIT IP, F XLN RE-XLN MTRX, S-SUCRO IP, IMBD FOSS FRG THRU, TR BLCK TO WHT CHRT IN TRAY NO VIS FLO, NO VIS POR, NO VIS SHOW

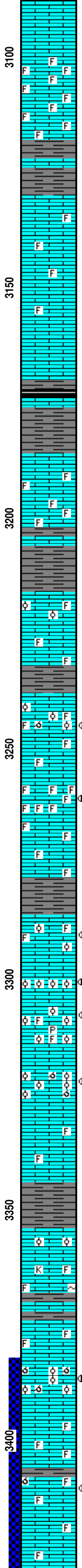
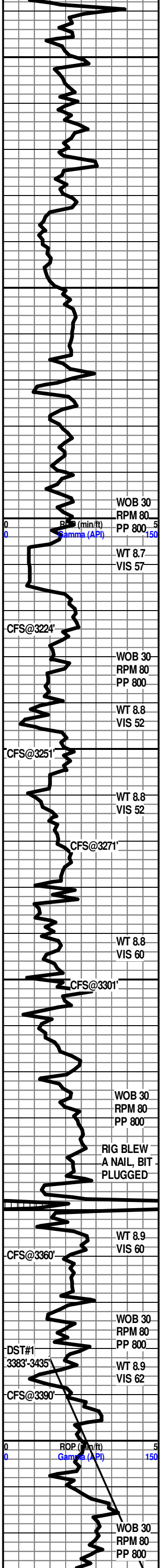
SH- BLCK. SFT. CARB



WOB 27
RPM 80
PP 850

WOB 27
RPM 80
PP 850

WT 8.6
VIS 63



LS- CRM TO LT TN, HD DNS, V/F TO F XLN MTRX, IMBD CALC XLS THRU, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- LT TN, HD DNS TO BRIT, F RE-XLN MTRX, S-SUCRO IP, ABDT IMBD FOSS FRG THRU, NO VIS FLO, NO VIS POR, NO VIS SHOW

SH- LT GY TO GY, FRM SPLNTY, SMTH TXT

LS- LT TN TO TN, FRM DNS TO BRIT, F XLN CHLKY MTRX, SLI TR IMBD FOSS FRG IP, SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- LT TN, FRM DNS TO BRIT, F XLN CHLKY MTRX, S-SUCRO IP, SLI TR IMBD FOSS FRG IP, SLI TR IMBD CALC XLS IP, SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- LT TN TO TN, HD DNS TO BRIT, F XLN MRTX, RE-XLN IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

HEEBNER 3170' -1236'
SH- BLCK, SFT, CARB

SH- LT GY TO DK GY, FRM BLKY, SLTY TXT

LS- LT TN, HD DNS TO BRIT IP, F XLN RE-XLN MTRX, S-SUCRO, IMBD FOSS FRG THRU, IMBD CALC XLS THRU, SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

DOUGLAS 3206' -1272'
SH- GRN BRWN TO GY, FRM BLKY TO SFT GMMY IP, SMTH TXT

LANSING 3216' -1282'

LS- CRM TO LT TN, HD DNS, V/F TO F XLN SUCRO MTRX, TR IMBD OOL IP, SLI TR IMBD FOSS FRG IP, TR IMBD CALC XLS IP, SLI TR SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

LANSING "C" 3239' -1305'
3245'-3247' LS- CRM TO LT TN W/ LT TN TO TN OIL STN IN 20%, HD DNS TO BRIT IP, F XLN SUCRO MTRX, IMBD OOL THRU, IMBD FOSS FRG IP, TR OOLMLD IP, SFT WHT CHLK IN TRAY, DUL YEL GLD FLO IN 25%, PR VUG POR IN 5%, PR INTR FOSS POR IN 1%, GD OOLMLD POR IN 5%, PR FLSH CUT IN 30%, FR TO GD SLW STRM IN 35%, LT TN LCH ON DISH, NO OIL ODOR

3259'-3262' LS- CRM TO LT TN W/ TN OIL STN IN 35%, HD DNS TO BRIT, F XLN SUCRO MTRX, ABDT IMBD FOSS FRG THRU, TR CALC XLS ON ONE FACE, TR SFT WHT CHLK IN TRAY, DUL YEL GLD FLO IN 40%, FR TO GD INTR FOSS POR IN 10%, POSS FRCT POR, GD FLSH CUT IN 50%, GD SLW STRM IN 50%, TN LCH ON DISH, FR OIL ODOR

SH- LT GY TO DK GY, FRM BLKY, SMTH TXT

LANSING "F" 3287' -1353'
3290'-3291' LS- OFF WHT W/ TN OIL STN IN 20%, HD DNS TO BRIT, F XLN CHLKY MTRX, S-SUCRO, IMBD FOSS FRG THRU, TR IMBD OOL THRU, SFT WHT CHLK IN TRAY, DUL YEL GLD FLO IN 20%, BRT YEL GLD FLO IN 5%, PR INTR FOSS POR IN 5%, FR VUG POR IN 3%, PR FLSH CUT IN 30%, PR TO FR SLW STRM IN 20%, LT TN LCH ON DISH

3299'-3300' LS- WHT OFF WHT TO CRM W/ DK TN OIL STN IN 30%, HD DNS TO BRIT, F XLN CHLKY MTRX, ABDT IMBD OOL THRU, SFT WHT CHLK IN TRAY, DUL YEL GLD FLO IN 35%, BRT YEL GLD FLO IN 5%, PR TO FR INTR OOL POR IN 7%, PR TO FR FLSH CUT IN 40%, FR SLW STRM 50%, TN LCH ON DISH

3307'-3308' LS- CRM TO LT TN W/ TN OIL STN IN 25%, HD DNS TO BRIT IP, F XLN SUCRO MTRX, S-CHLKY IP, ABDT IMBD OOL IP, TR IMBD FOSS FRG IP, IMBD CALC XLS ON ONE FACE, IMBD DISS PYR IP, SFT WHT CHLK IN TRAY, DUL YEL GLD FLO IN 40%, PR INTR OOL POR IN 5%, FR TO V/GD VUG POR IN 3%, POSS FRCT POR, GD FLSH CUT IN 70%, GASSY SLW STRM THRU, DK TN LCH ON DISH

3321'-3322' LS- LT TN TO TN W/ TN OIL STN IN 50%, HD DNS, F XLN SUCRO MTRX, ABDT IMBD OOL THRU, TR OOLMLD IP, SLI TR IMBD CALC XLS IP, DUL YEL GLD FLO IN 60%, BRT YEL GLD FLO IN 1%, PR TO FR VUG POR IN 5%, GD VUG POR IN 3%, FR OOLMLD POR IN 5%, GD FLSH CUT IN 60%, GD MLKY BLU SLW STRM IN 60%, DK TN LCH ON DISH, WK OIL ODOR

LANSING "H" 3354' -1420'

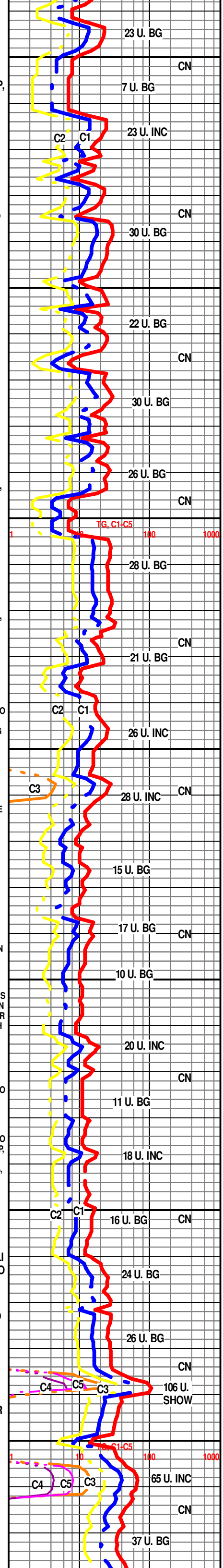
LS- LT TN, HD DNS TO BRIT IP, V/F TO F XLN MTRX, S-SUCRO, TR IMBD OOL IP, SLI TR GLAU OR KAOL IP, SLI TR SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

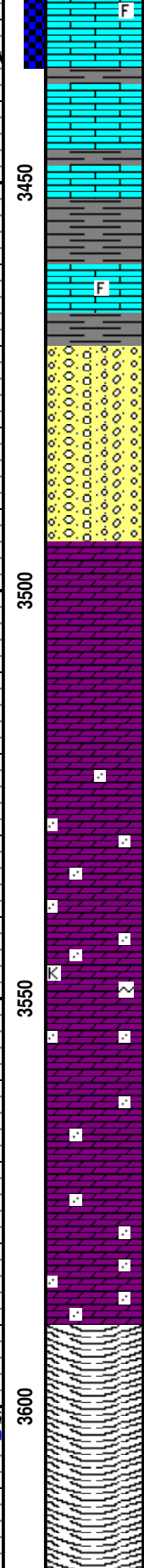
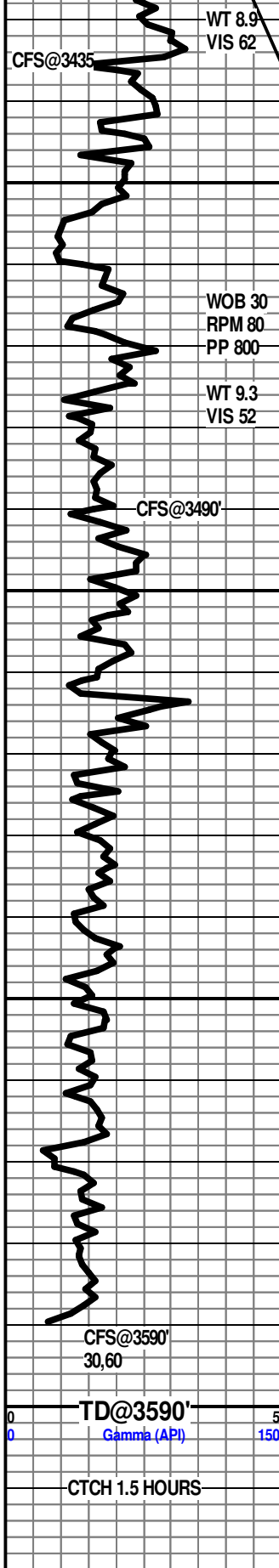
LS- OFF WHT TO CRM, HD DNS TO BRIT IP, F XLN SUCRO MTRX, S-CHLKY IP, TR IMBD CALC XLS IP, SLI TR IMBD FOSS FRG IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

3385'-3388' LS- TN W/ TN OIL STN IN 50% LOS IN 5%, HD DNS TO BRIT IP, F XLN SUCRO MTRX, ABDT IMBD OOL THRU, IMBD OOLMLD THRU, DUL YEL GLD FLO IN 60%, FR TO GD INTR OOL POR IN 5%, FR TO GD OOLMLD POR IN 5%, PR MICRO VUG POR IN 1%, WK FLSH CUT IN 60%, FR SLW STRM IN 50%, GD SLW STRM IN 10%, TN LCH ON DISH, WK OIL ODOR

3409'-3411' LS- LT TN W/ TN OIL STN IN 15%, HD DNS TO BRIT, F XLN SUCRO MTRX, S-CHLKY IP, TR IMBD FOSS FRG IP, TR OOLMLD POR IP, DUL YEL GLD FLO IN 40%, PR TO FR VUG POR IN 5%, FR OOLMLD POR IN 3%, WK FLSH CUT IN 30%, FR SLW STRM IN 30%, LT TN LCH ON DISH

LS- CRM TO LT TN, HD DNS, V/F TO F XLN MTRX, S-SUCRO, TR IMBD FOSS FRG IP, IMBD CALC XLS THRU





S-SUCRO, TR IMBD FOSS FRG IP, IMBD CALC XLS THRU, TR SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- CRM TO LT TN, HD DNS TO BRIT, F XLN SUCRO MTRX, S-CHLKY, NO VIS FLO, NO VIS POR, NO VIS SHOW

BKC 3453' -1519'
SH- GRN, BRWN TO GY, FRM BLKY, SMTH TO SLTY TXT

LS- LT TN TO TN, HD DNS TO BRIT IP, F XLN SUCRO MTRX, S-CHLKY IP, SLI TR IMBD FOSS FRG IP, TR IMBD CALC XLS IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

CONG- LS- OFF WHT TO CRM, HD DNS TO BRIT, F XLN SUCRO MTRX, S-CHLKY, TR IMBD CALC XLS IP, SH- BRWN TO GY, FRM BLKY TO SFT GMMY, SMTH TXT, CHRT- OFF WHT TO YEL

ARBUCKLE 2495' -1561'

3498'-3500' DOLO- TN TO DK TN W/ DK TN OIL STN IN 70%, HD DNS TO BRIT IP, F XLN SUCRO MTRX, ABDT IMBD SM TO CRS S-ANG TO S-RND DOLO GRNS THRU, DUL YEL GLD FLO IN 70%, GD INTR GRN POR IN 20%, FR FLSH CUT IN 80%, MLKY BLU GASSY SLW STRM, DK TN LCH ON DISH

3511'-3513' DOLO, TN TO DKN TO W/ DK TN OIL STN IN 70%, HD DNS TO BRIT IP, F XLN SUCRO MTRX, ABDT IMBD SM TO CRS S-ANG TO S-RND DOLO GRNS THRU, DUL YEL GLD FLO IN 70%, FR TO GD INTR GRN POR IN 15%, FR FLSH CUT IN 60%, FR TO GD SLW STRM IN 60%, DK TN LCH ON DISH

3522'-3524' DOLO- LT TN TO TN W/ DK TN OIL STN IN 60%, HD DNS TO BRIT IP, F XLN SUCRO MTRX, ABDT IMBD SM TO CRS S-ANG TO S-RND DOLO GRNS THRU, TR IMBD LRG S-ANG TO ANG QRTZ XLS IP, DUL YEL GLD FLO IN 55%, BRT YEL GLD FLO IN 5%, PR TO FR INTR GRN POR IN 15%, FR TO GD FLSH CUT IN 60%, FR TO GD SLW STRM IN 50%, TN LCH ON DISH

3536'-3538' DOLO- TN W/ TN OIL STN IN 40%, HD DNS, F XLN SUCRO MTRX, ABDT IMBD SM TO CRS S-ANG TO S-RND DOLO GRNS THRU, ABDT IMBD MD RND QRTZ GRNS THRU, DUL YEL GLD FLO IN 40%, PR INTR GRN POR IN 10%, PR TO FR FLSH CUT IN 50%, FR SLW STRM IN 50%, LT TN LCH ON DISH

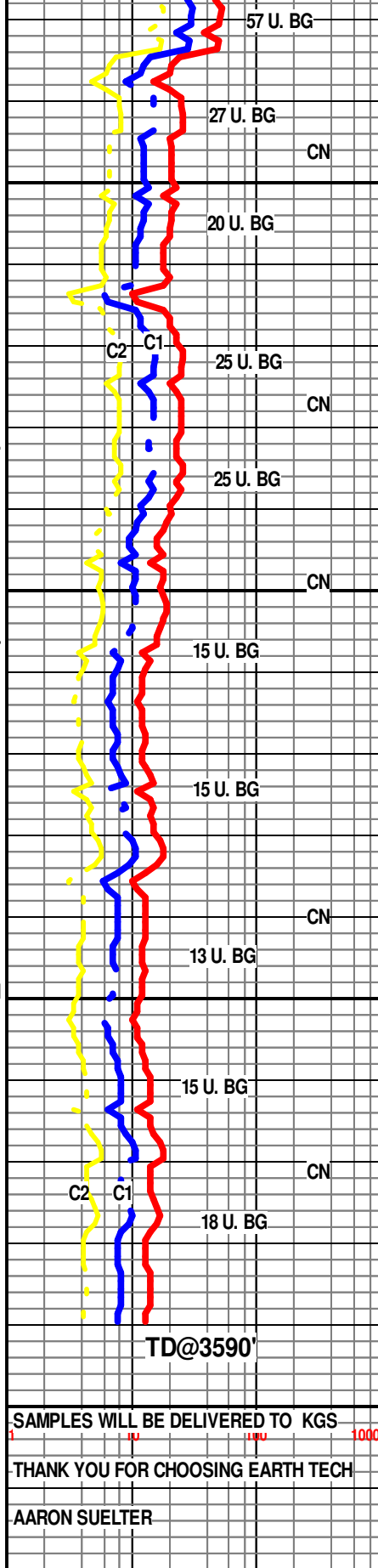
DOLO- OFF WHT TO CRM, HD DNS, F XLN SUCRO MTRX, ABDT IMBD F TO MD S- ANG TO S-RND DOLO GRNS THRU, TR IMBD MD RND QRTZ GRNS IP, SLI TR IMBD KAOL OR GLAU, NO VIS FLO, V/P INTR GRN POR IN 5%, NO VIS CUT OR SHOW

R.T.D. @ 4:00PM 9/10/12

DROP SURVEY

TOFL@ 5:30PM

WEATHERFORD/LIBERAL



SAMPLES WILL BE DELIVERED TO KGS

THANK YOU FOR CHOOSING EARTH TECH

AARON SUELTER