



1099404

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: 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

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: _____ _____
--	---	---

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	LAYHER TRUST ET AL 1-20
Doc ID	1099404

All Electric Logs Run

INDUCTION
MICRO
POROSITY
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

October 31, 2012

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

Re: ACO1
API 15-167-23809-00-00
LAYHER TRUST ET AL 1-20
NW/4 Sec.20-15S-15W
Russell 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: 7/17/2012
 Invoice # 802

P.O.#:
 Due Date: 8/16/2012
 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:
 LAYHER TRUST ET AL 1-20

Description of Work:
 LONG SURFACE JOB

DRLG COMP W/O LOE GG

Account	8200.138
Well/Prospect	
Deck	
AFE	
Approval	
Description	

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 963.85	No				
Common-Class A	400	\$ 5,151.11	Yes				
8 5/8" Basket	3	\$ 1,000.67	Yes				
Bulk Truck Matl-Material Service Charge	422	\$ 890.89	No				
Calcium Chloride	14	\$ 704.31	Yes				
8 5/8" Centralizer	3	\$ 202.67	Yes				
Pump Truck Mileage-Job to Nearest Camp	17	\$ 179.09	No				
Premium Gel (Bentonite)	8	\$ 137.48	Yes				
8 5/8" Top Rubber Plug	1	\$ 111.89	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	17	\$ 104.80	No				
Baffle Plate Aluminum, 8 5/8"	1	\$ 95.00	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 9,541.74
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,431.26)

SubTotal for Taxable Items: \$ 6,292.65
 SubTotal for Non-Taxable Items: \$ 1,817.83
 Total: \$ 8,110.48
 Tax: \$ 522.29

8.30% Russell County Sales Tax

Amount Due: \$ 8,632.77
Applied Payments:
Balance Due: \$ 8,632.77

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
Cell 785-324-1041

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

No. 802

Date	7-13-12	Sec.	20	Twp.	15	Range	15	County	RUSSELL	State	KANSAS	On Location		Finish	5:30 am
------	---------	------	----	------	----	-------	----	--------	---------	-------	--------	-------------	--	--------	---------

Lease	LAYHER TRUST ET AL	Well No.	#1-20	Location	GORHAM STO River 1 S
-------	--------------------	----------	-------	----------	----------------------

Contractor	DISCOVERY DRILLING #2	Owner	SAM GARY JR & ASSOC.
------------	-----------------------	-------	----------------------

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.	733'	Charge To	SAM GARY JR & ASSOC.
-----------	---------	------	------	-----------	----------------------

Csg.	8 5/8" - 23#	Depth	733'	Street	1515 WYNDKOOP, 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	41.83	Cement Amount Ordered	400 con - 3 cc - 2 gel - 1/4 FLU
---------------------	--	------------	-------	-----------------------	----------------------------------

Meas Line		Displace	44 BLS		
-----------	--	----------	--------	--	--

EQUIPMENT

Pumptrk #15 No.	Cementer Helper	NICK	Common	400
-----------------	-----------------	------	--------	-----

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

Bulktrk P/U No.	Driver	CISCO	Gel.	8/14
-----------------	--------	-------	------	------

JOB SERVICES & REMARKS

Remarks:		Hulls	
----------	--	-------	--

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

Mouse Hole		Flowseal	
------------	--	----------	--

Centralizers		Kol-Seal	
--------------	--	----------	--

Baskets		Mud CLR 48	
---------	--	------------	--

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

CEMENT DID CIRCULATE!

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

		Handling	422
--	--	----------	-----

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

FLOAT EQUIPMENT

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

		Centralizer	3
--	--	-------------	---

		Baskets	3
--	--	---------	---

		AFU Insert	1 Baffle plate
--	--	------------	----------------

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

		Latch Down	1 8" Rubber plug
--	--	------------	------------------

		Pumptrk Charge	Long Surface
--	--	----------------	--------------

		Mileage	17
--	--	---------	----

THANK YOU!

X Signature *[Handwritten 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: 7/19/2012
 Invoice # 25

P.O.#:
 Due Date: 8/18/2012
 Division: Russell

Invoice

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

Reference:
 LAYHER TRUST ET AL 1-20

Description of Work:
 PLUG JOB

DRLG COMP W/O LOE GG

Account	8200.145
Well/Prospect	
Deck	
AFE	
Approval	
Description	

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 1,239.23	Yes				
Common-Class A	111	\$ 1,470.27	Yes				
Bulk Truck Mat-Material Service Charge	193	\$ 419.09	Yes				
POZ Mix-Standard	74	\$ 369.58	Yes				
Pump Truck Mileage-Job to Nearest Camp	17	\$ 184.20	Yes				
Flo Seal	50	\$ 108.57	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	17	\$ 107.79	Yes				
Premium Gel (Bentonite)	6	\$ 106.05	Yes				
Dry Hole Plug	1	\$ 60.80	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 4,065.59
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (609.84)

SubTotal for Taxable Items: \$ 3,455.75
 SubTotal for Non-Taxable Items: \$ -
 Total: \$ 3,455.75
 Tax: \$ 286.83
 8.30% Russell County Sales Tax

Thank You For Your Business!

Amount Due: \$ 3,742.58
Applied Payments:
Balance Due: \$ 3,742.58

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

JUL 27 2012

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

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

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

No. 025

Cell 785-324-1041

Date	7-17-12	Sec.	Twp.	Range	County	State	On Location	Finish
Lease	Layher Trust	Well No.	ETAL 1-20	Location	Gorham S to River 1/2 S			6:30pm
Contractor	Discovery 2	Owner	Y/E					
Type Job	plug	3440	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	T.D.	Charge To	Sam Gary Jct Assoc					
Csg.	Depth	Street						
Tbg. Size	Depth	City	State					
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.						
Cement Left in Csg.	Shoe Joint	Cement Amount Ordered	185 @ 9% gel					
Meas Line	Displace							
EQUIPMENT								
Pumptrk	No.	Cementer	Nick		1/4 Flow			
		Helper			Common 111			
Bulktrk	No.	Driver	Cody		Poz. Mix 74			
		Driver			Gel. 6			
Bulktrk	No.	Driver	Dave					
		Driver						
JOB SERVICES & REMARKS								
Remarks:	Layher Trust							
Rat Hole	ETAL 1-20							
Mouse Hole								
Centralizers								
Baskets								
D/V or Port Collar	CFL-117 or CD110 CAF 38							
25 sk @ 3320	Sand							
25 sk @ 920	Handling 1/93							
80 sk @ 350	Mileage							
FLOAT EQUIPMENT								
10 sk @ 40 w/ plug	Guide Shoe							
30 sk Raphole	Centralizer							
15 sk mouse hole	Baskets							
	AFU Inserts							
	Float Shoe							
	Latch Down							
	1. 8 1/8 plug							
	Pumptrk Charge plug							
	Mileage 17							
Thanks								
Terry								
Signature								
							Tax	
							Discount	
							Total Charge	



DRILL STEM TEST REPORT

Prepared For: **Sam Gary Jr & Assoc inc**

1515 Wynkoop St
STE 700
Denver Co. 80202

ATTN: Chris Mitchell

Layher Trust 1-20

20- 15s-15w Russell

Start Date: 2012.07.16 @ 01:52:05

End Date: 2012.07.16 @ 08:57:39

Job Ticket #: 47895 DST #: 1

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

Printed: 2012.07.16 @ 10:07:40



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Sam Gary Jr & Assoc inc

20- 15s-15w Russell

1515 Wynkoop St
STE 700
Denver Co. 80202
ATTN: Chris Mitchell

Layher Trust 1-20

Job Ticket: 47895

DST#: 1

Test Start: 2012.07.16 @ 01:52:05

GENERAL INFORMATION:

Formation: **LKC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:58:10

Time Test Ended: 08:57:39

Test Type: Conventional Bottom Hole (Initial)

Tester: Andy Carreira

Unit No: 39

Interval: 3085.00 ft (KB) To 3126.00 ft (KB) (TVD)

Reference Elevations: 1830.00 ft (KB)

Total Depth: 3126.00 ft (KB) (TVD)

1822.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 8372 Outside

Press @ Run Depth: 111.09 psig @ 3090.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.16

End Date:

2012.07.16

Last Calib.:

2012.07.16

Start Time: 01:52:05

End Time:

08:57:40

Time On Btm:

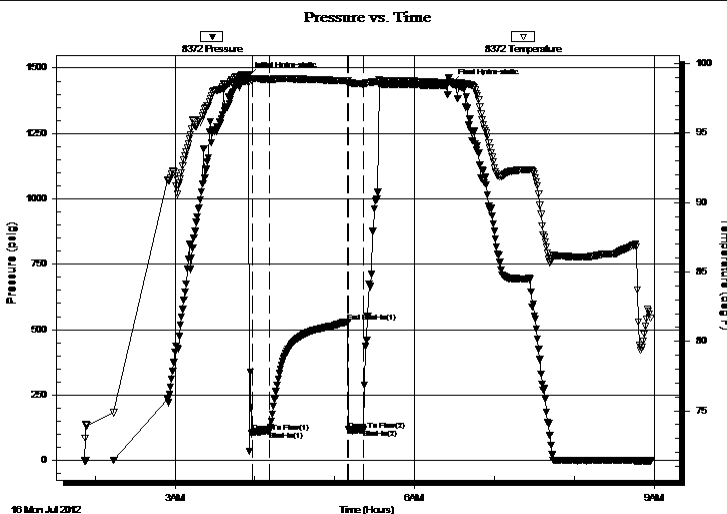
2012.07.16 @ 03:55:20

Time Off Btm:

2012.07.16 @ 06:27:50

TEST COMMENT: IF:(10min) Surface Blow
IS:(60min) No Return
FF:(10min) Surface Blow
FS:(60min) No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1468.87	99.23	Initial Hydro-static
3	107.41	98.96	Open To Flow (1)
16	111.09	98.87	Shut-In(1)
75	529.48	98.76	End Shut-In(1)
75	117.12	98.52	Open To Flow (2)
87	117.29	98.54	Shut-In(2)
153	1441.54	98.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
185.00	Mud w / oil spks in tool	2.60

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Sam Gary Jr & Assoc inc

20- 15s-15w Russell

1515 Wynkoop St
STE 700
Denver Co. 80202
ATTN: Chris Mitchell

Layher Trust 1-20

Job Ticket: 47895

DST#: 1

Test Start: 2012.07.16 @ 01:52:05

Tool Information

Drill Pipe:	Length: 3069.00 ft	Diameter: 3.80 inches	Volume: 43.05 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	40000.00 lb
			<u>Total Volume: 43.05 bbl</u>	Tool Chased	10.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	34000.00 lb
Depth to Top Packer:	3085.00 ft			Final	35000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	41.00 ft				
Tool Length:	77.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: Tool slid 10ft to bottom. Charts showed no final shut in.

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3050.00	
Recorder	0.00	8647	Fluid	3050.00	
Blank Spacing	5.00			3055.00	
Shut In Tool	5.00			3060.00	
Sampler	3.00			3063.00	
Hydraulic tool	5.00			3068.00	
Jars	5.00			3073.00	
Safety Joint	3.00			3076.00	
Packer	5.00			3081.00	36.00 Bottom Of Top Packer
Packer	4.00			3085.00	
Stubb	1.00			3086.00	
Perforations	3.00			3089.00	
Change Over Sub	1.00			3090.00	
Recorder	0.00	8017	Inside	3090.00	
Recorder	0.00	8372	Outside	3090.00	
Drill Pipe	31.00			3121.00	
Change Over Sub	1.00			3122.00	
Perforations	1.00			3123.00	
Bullnose	3.00			3126.00	41.00 Bottom Packers & Anchor
Total Tool Length:	77.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Sam Gary Jr & Assoc inc

20- 15s-15w Russell

1515 Wynkoop St
STE 700
Denver Co. 80202
ATTN: Chris Mitchell

Layher Trust 1-20

Job Ticket: 47895

DST#: 1

Test Start: 2012.07.16 @ 01:52:05

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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 cm³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
185.00	Mud w / oil spks in tool	2.595

Total Length: 185.00 ft Total Volume: 2.595 bbl

Num Fluid Samples: 0

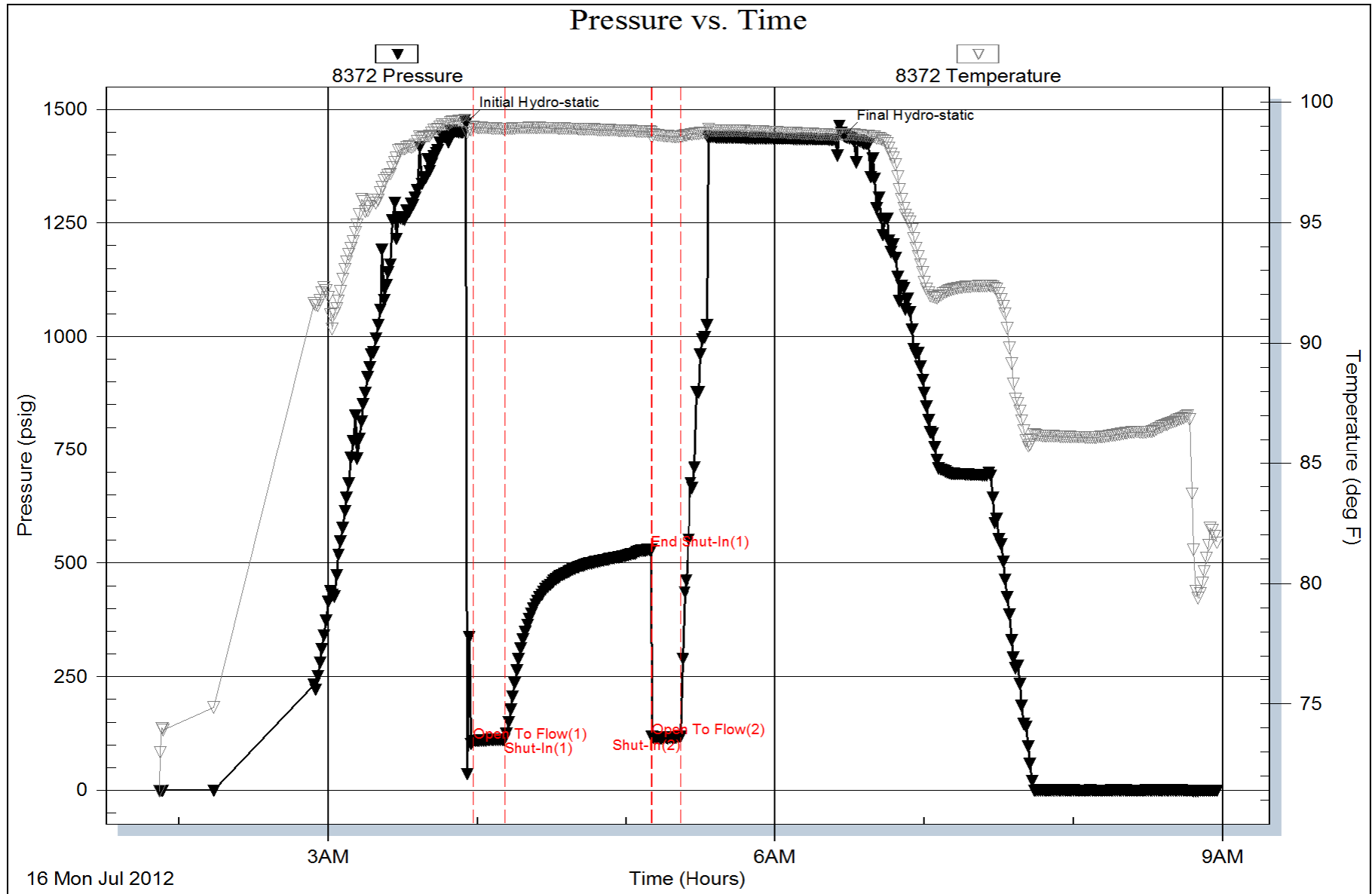
Num Gas Bombs: 0

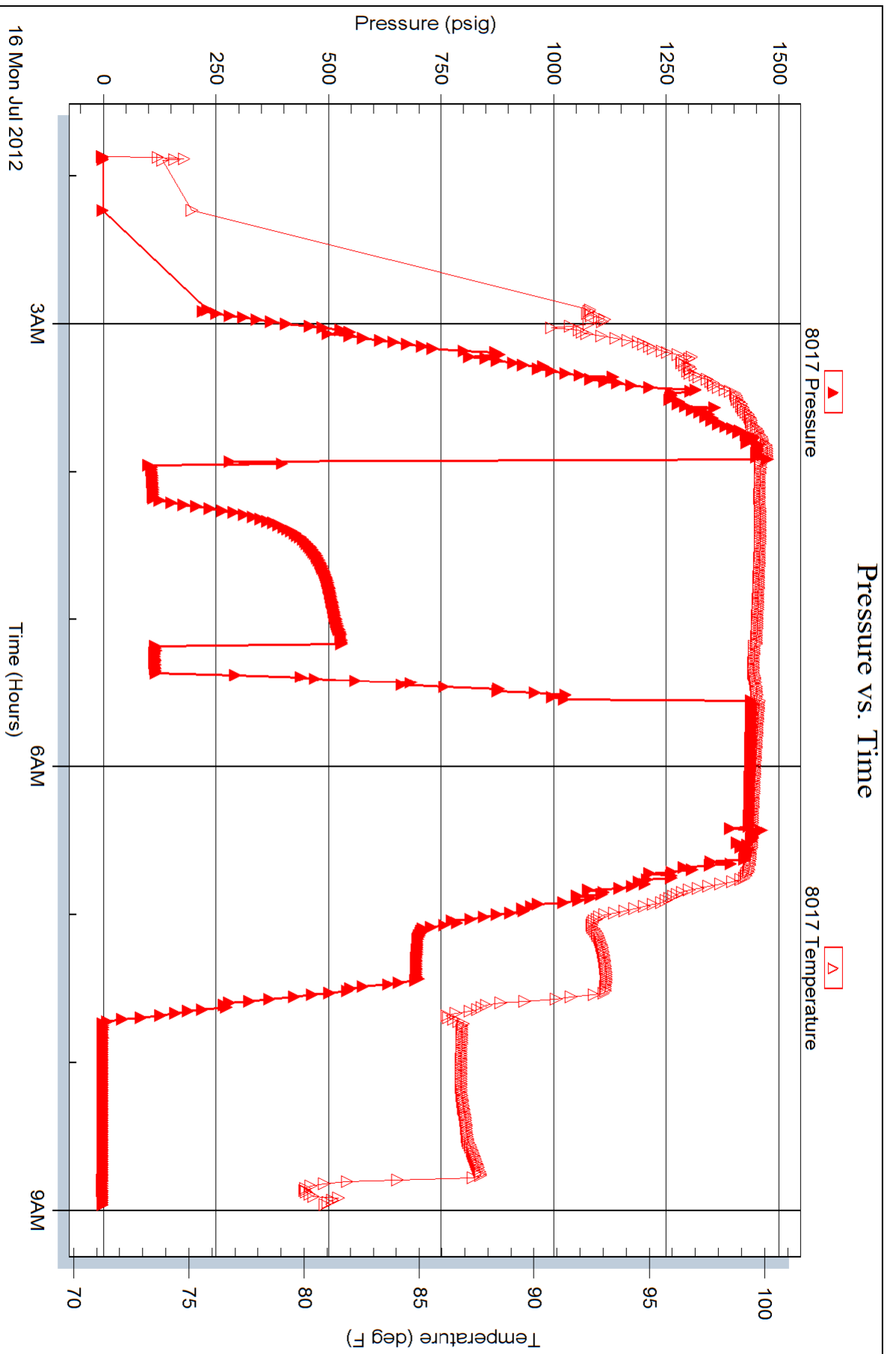
Serial #:

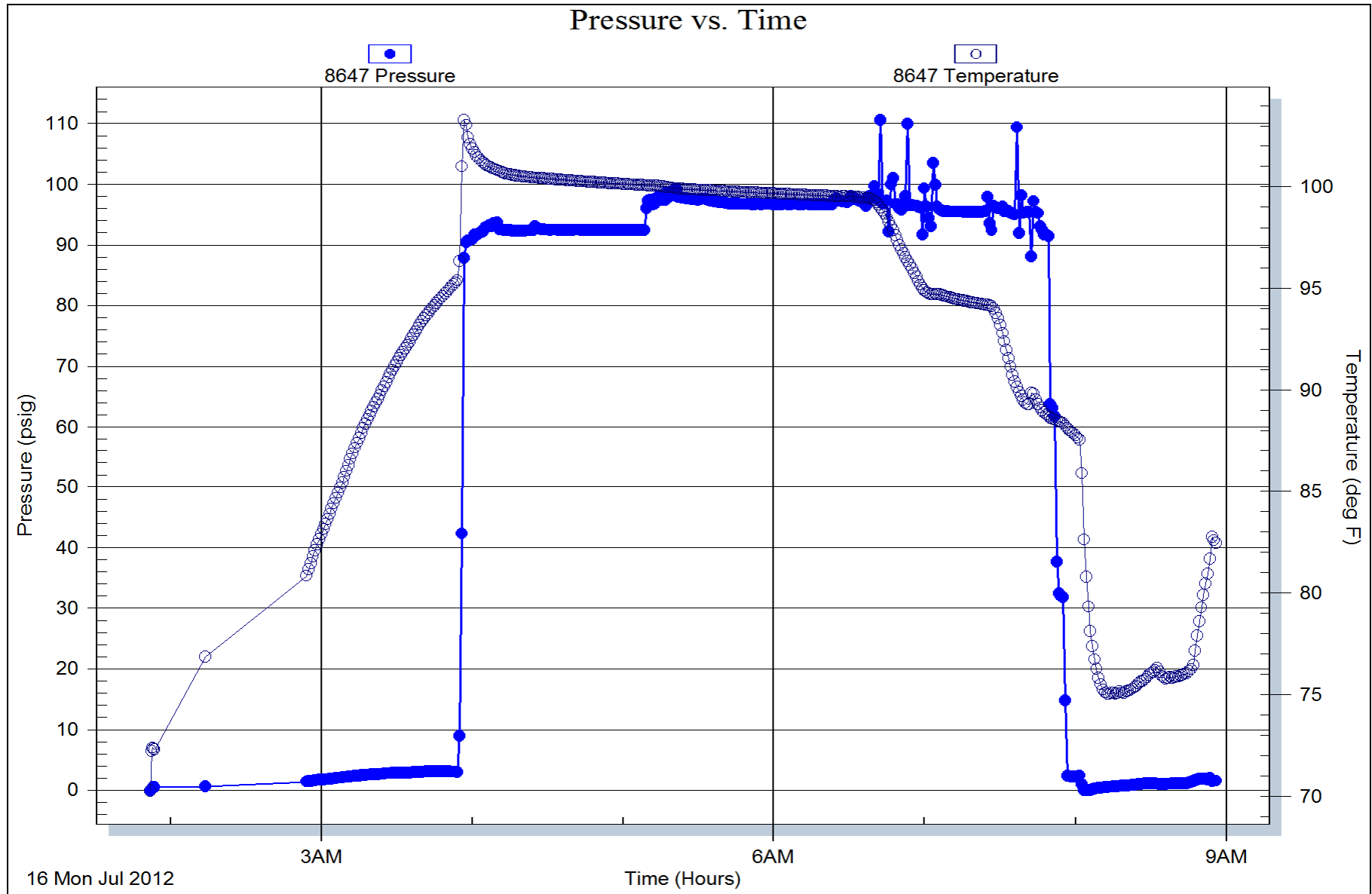
Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Data- oil=Trace mud=3000ml

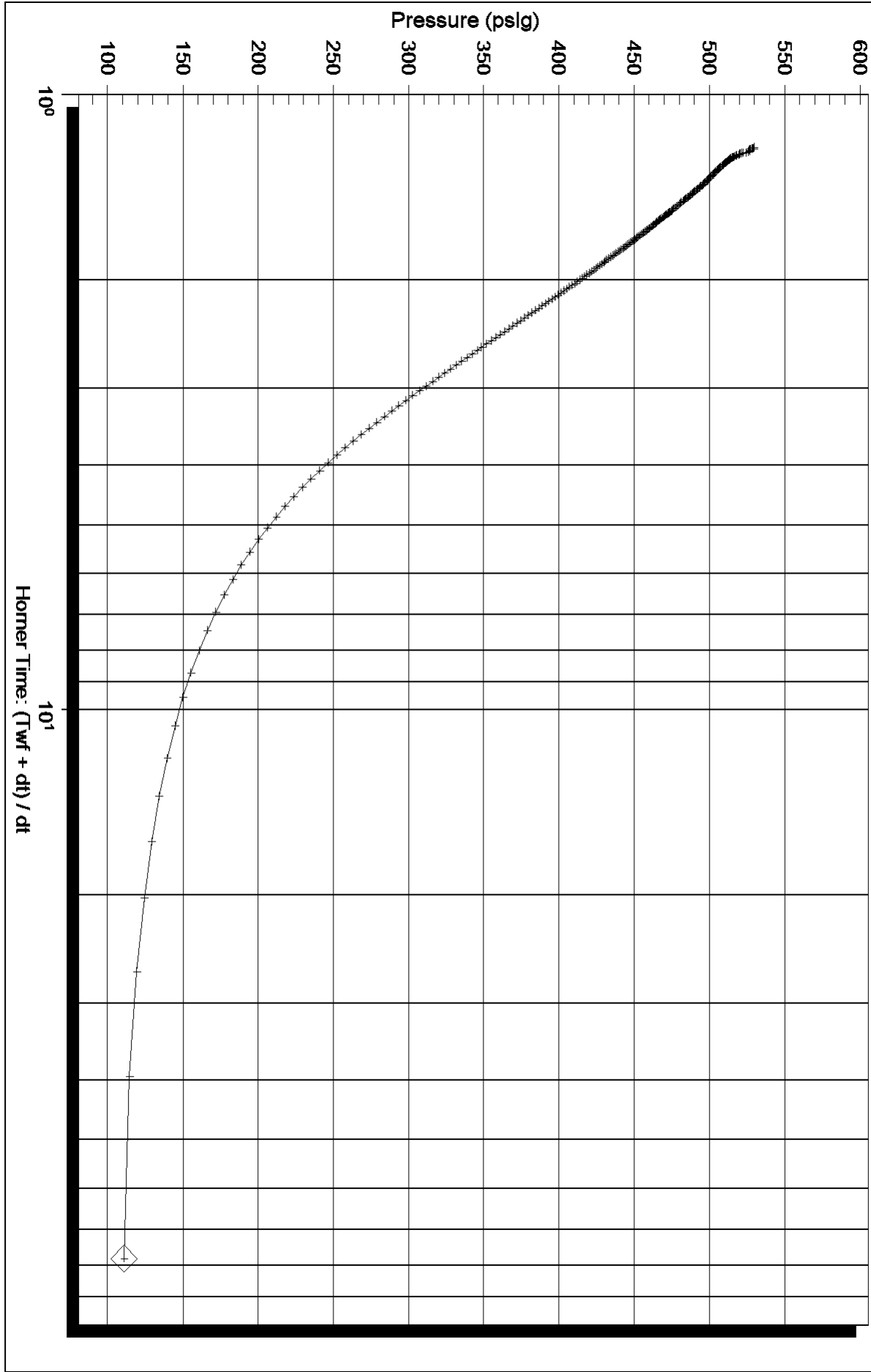






Horner Plot

Horner Pressure +



Serial Number: 8372 (Outside)

P* :

Slope (m) : kpa/log cycle

Flow Cycle: 1



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

Well Name: Layher Trust et al 1-20
 Location: Sec. 20-15S-15W Russell County, Kansas
 License Number: 15-167-23809-0000
 Spud Date: July 12, 2012
 Surface Coordinates: 2500 FNL / 1050 FWL
 Region: WILDCAT
 Drilling Completed: July 17, 2012

Bottom Hole Coordinates:
 Ground Elevation (ft): 1822' K.B. Elevation (ft): 1830'
 Logged Interval (ft): 2750' To: 3440' Total Depth (ft): 3440'
 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: 785-531-2406

DST's Report

DST#1 3085'-3126' 10 60 10 60
 IF- WEAK SURFACE BLOW/ ISI- NO RETURN/ FF- NB/ FSI- NO RETURN
 IH- 1468, FH- 1441/ IF 107 TO 117/ FF 101 TO 117/ ISI 529, FSI- N/A
 RECOVERY- 185' MUD W/ OIL SPKS IN TOOL/ BHT98

DST's Report

ROCK TYPES

Anhy	Gyp	Shgy	Sandy
Bent	Igne	Siltst	Shale
Brec	Lmst	Ss	Siltstn
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	Sandyms
Brecfrag	Chlorite	Pisolite	Sh
Calc	Dol	Plant	Siltstn
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	Siltstrg	Mudst
Nodule	Echin	Ssstrg	Packst
Phos	Fish	Carbsh	Wackest
Pyr	Foram		

OTHER SYMBOLS

POROSITY TYPE

- E Earthy
- B Fenest
- F Fracture
- X Inter
- M 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

- E Even
- S Spotted
- Q Ques
- D Dead
- G Gas show

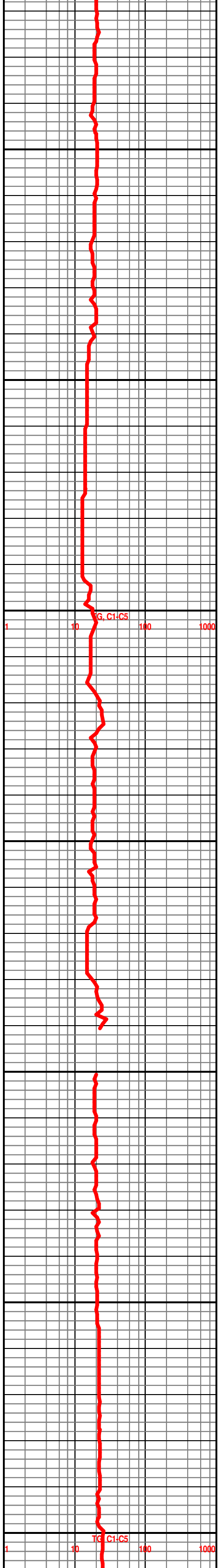
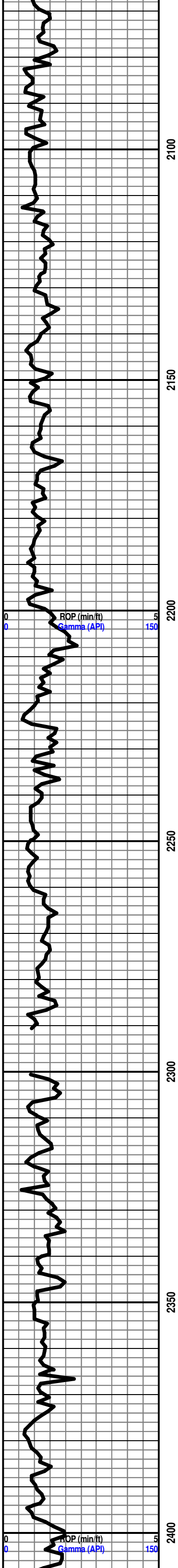
INTERVALS

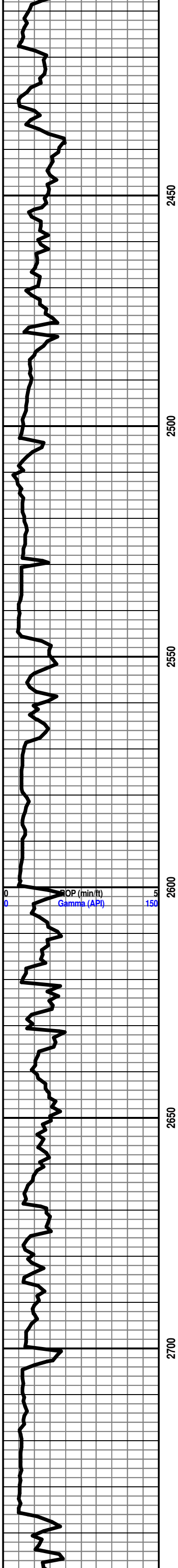
- Core
- Dst
- Dst

EVENTS

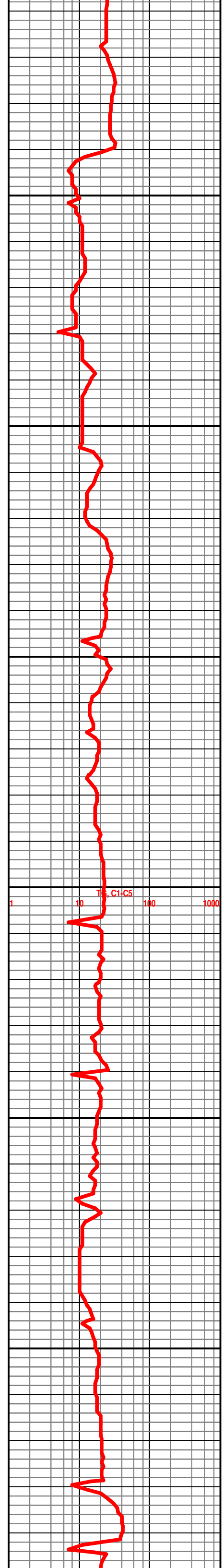
- Rft
- Sidewall





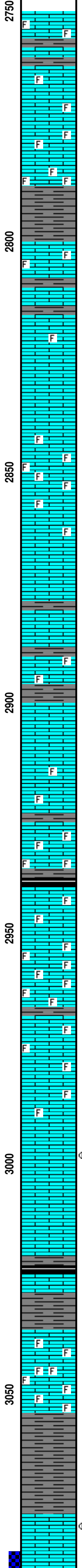
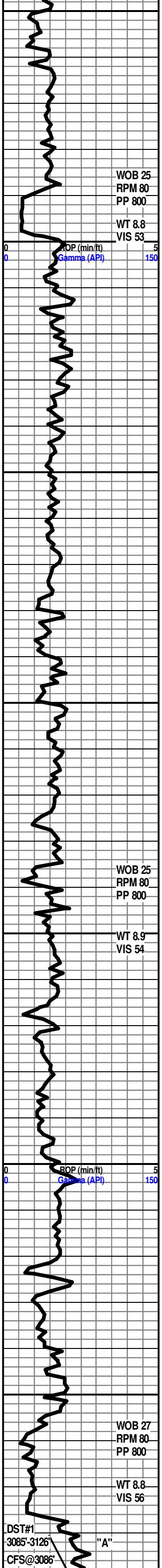


BRS 2546' 716'



HOWARD 2736' - 906'

START 24 HOUR MANNED UNIT 7/15/12



LS- DK TN TO GY, HD DNS TO BRIT IP, F TO MD XLN RE-XLN MTRX, TR SCAT IMBD FOSS FRG IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- OFF WHT TO TN, HD DNS, F XLN RE-XLN MTRX, SCAT IMBD FOSS FRG IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- OFF WHT CRM TO TN, HD DNS F XLN RE-XLN MTRX, IMBD FOSS FRG THRU, NO VIS FLO, NO VIS POR, NO VIS SHOW

SEVERY 2789' -959'

SH- GRN TO GRY, FRM BLKY, SMTH TXT

TOPEKA 2799' -969'

LS- OFF WHT TO CRM, HD DNS TO BRIT IP, F XLN SUCRO MTRX, TR S-CHLKY IP, TR SCAT IMBD FOSS FRG IP, NO VIS FLO, PR VUG POR IN 1%, NO VIS CUT OR SHOW

LS- LT TN TO TN, HD DNS TO BRIT IP, F TO MD XLN MTRX, SLI TR IMBD FOSS FRG IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- TN TO GY, HD DNS TO BRIT IP, F TO MD XLN MTRX, S-SUCRO IP, S-CHLKY IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- TN, HD DNS TO BRIT, F TO MD XLN RE-XLN MTRX, IMBD FOSS FRG THRU, NO VIS FLO, NO VIS POR, NO VIS SHOW

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

LS- LT TN TO TN, HD DNS TO BRIT, F XLN SUCRO MTRX, S-CHLKY IP, SLI TR BRWN CHRT IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- OFF WHT TO TN, HD DNS TO BRIT, F TO MD XLN RE-XLN MTRX, S-CHLKY IP, TR SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

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

LE COMPTON 2900' -1070'

LS- OFF WHT TO CRM, HD DNS TO BRIT, F XLN MTRX, S-SUCRO IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- CRM TO TN, HD DNS TO BRIT, F TO MD XLN MTRX, TR SCAT IMBD FOSS FRG IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- LT TN TO TN, HD DNS TO V/BRIT IP, F TO MD XLN RE-XLN MTRX, IMBD FOSS FRG THRU, NO VIS FLO, NO VIS POR, NO VIS SHOW

SH- BLCK, SFT, CARB

LS- OFF WHT TO CRM, HD DNS TO BRIT, F TO MD XLN RE-XLN MTRX, S-CHLKY IP, SCAT IMBD FOSS FRG THRU, NO VIS FLO, NO VIS POR, NO VIS SHOW

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

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

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

2996'-2998' LS- WHT TO OFF WHT W/ TN OIL STN IN 60%, HD DNS TO BRIT IP, F XLN RE-XLN MTRX, S- SUCRO, DUL YEL GLD FLO IN 40%, BRT YEL GLD FLO IN 10%, PR TO FR MICRO VUG POR IN 10%, FR FLSH CUT IN 60%, FR TO GD SLW STRM IN 60% TN LCH ON DISH, WK OIL ODOR

LS- LT TN TO TN, HD DNS TO BRIT IP, V/F TO F XLN MTRX, NO VIS FLO, NO VIS POR, NO VIS SHOW

SH- BLCK, SFT, CARB

HEEBNER 3022' - 1192'

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

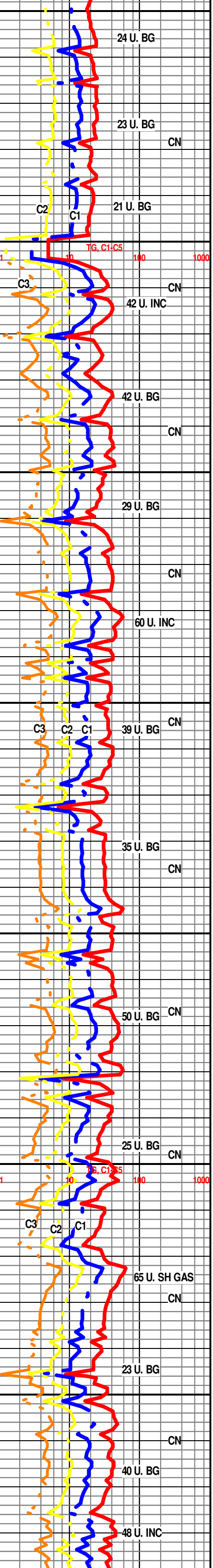
LS- TN DK TN TO GY, HD DNS TO BRIT IP, F TO MD XLN RE- XLN MTRX, ABDT IMBD FOSS FRG THRU, NO VIS FLO, NO VIS POR, NO VIS SHOW

DOUGLAS 3054' -1224'

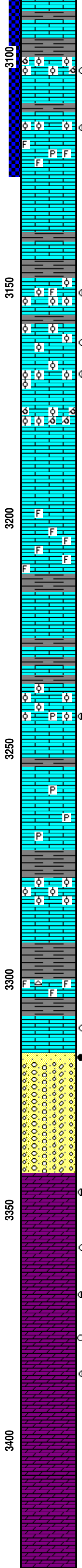
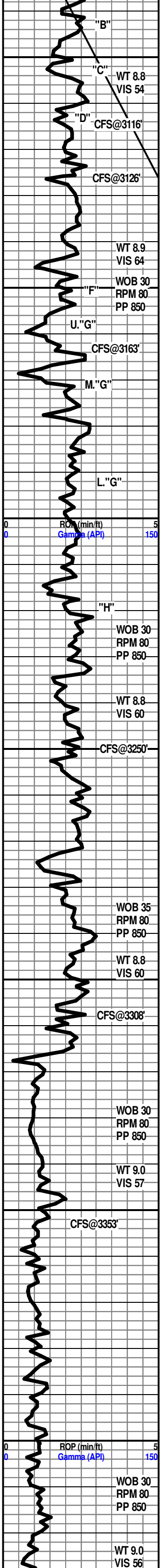
SH- BRWN GY TO DK GY, FRM BLKY, SMTH TXT

LANSING 3076' -1246'

3078'-3080' LS- OFF WHT TO CRM W/ TN OIL STN IN 40%, HD DNS, F XLN SUCRO MTRX, IMBD CALC XLS ON ONE FACES, DUL YEL GLD FLO IN 50%, BRT YEL GLD IN 5%, PR TO FR VUG POR IN 5%, POSS FRCT POR, WK FLSH CUT IN 40%, PR SLW STRM IN 30%, V/ LT TN LCH ON DISH, WK OIL ODOR



DST#1 3085'-3126' "A" CFS@3086'



LS- TN TO LT GY, HD DNS, V/F TO F XLN MTRX, SCAT IMBD LG FOSS FRGS IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LANSING "C" 3100' -1270
 3101'-3104' LS- CRM TO LT TN W/ LT TN OIL STN IN 70%, HD DNS TO BRIT IP, F XLN SUCRO MTRX, S-CHLKY, ABTD IMBD OOL THRU, SLI TR OOLMLDC, SCAT SFT WHT CHLK IN TRAY, DUL YEL GLD FLO IN 5%, BRT YEL GLD FLO IN 60%, FR TO GD INTR OOL POR IN 20%, FR TO GD VUG POR IN 5%, PR OOLMLD POR IN 5%, V/WK FLSH CUT THRU, PR SLW STRM IN 30%, V/ LT TN LCH ON DISH, FR OIL ODOR

3113'- 3115' LS- OFF WHT TO LT TN W/ DK TN OIL STN IN 75%, HD DNS TO BRIT IP, F TO MD XLN RE-XLN MTRX, S- CHLKY IP, IMBD OOL THRU, SCAT SFT WHT CHLK IN TRAY, DUL YEL GLD FLO IN 75%, FR TO GD INTR OOL POR IN 5%, FR TO GD MICRO VUG POR IN 5% FR INTR XLN POR IN 5%, FR FLSH CUT IN 80%, GD SLW STRM CUT IN 70%, DK TN LCH ON DISH, STRNG OIL ODOR

LS- OFF WHT TO CRM, HD DNS, V/F TO F XLN MTRX, NO VIS FLO, NO VIS POR, NO VIS SHOW

SH- GY, SFT GMMY, SMTH TXT

LANSING "F" 3148' -1318'
 3148'-3150' LS- CRM TO LT TN W/ TN STN IN 50%, HD DNS TO BRIT, F TO MD XLN RE-XLN MTRX, ABTD IMBD OOL THRU, SFT WHT CHLK IN TRAY, BRT YEL GLD FLO IN 70%, FR INTR OOL POR IN 10%, FR VUG POR IN 1%, WK TO FR FLSH CUT IN 60%, WK TO FR FLSH CUT IN 40% V/LT TN LCH ON DISH, WK OIL ODOR

3158'-3160' LS- OFF WHT TO CRM W/ TN OIL STN IN 20%, HD DNS TO BRIT IP, V/F TO F XLN MTRX, S-SUCRO IP, ABTD IMBD OOL THRU, SLI TR IMBD FOSS FRG IP, TR IMBD CALC XLS IP, SCAT SFT WHT CHLK IN TRAY, DUL YEL GLD FLO IN 30%, BRT YEL GLD FLO IN 1%, V/PR INTR OOLPOR IN 5%, POSS FRCT POR, NO FLSH CUT, V/ WK SLW STRM IN 10%, NO LCH ON DISH

3168'-3169' LS- OFF WHT TO CRM W/ TN OIL STN IN 20%, DOS IN 15%, HD DNS TO BRIT, F TO MD XLN RE-XLN MTRX, ABTD IMBD OOL THRU, TR IMBD CALC XLS IP, DUL YEL GLD FLO IN 20%, BRT YEL GLD FLO IN 10%, PR INTR XLN POR IN 15%, FR VUG POR IN 1%, WK FLSH CUT IN 45%, FR TO GD SLW STRM IN 40%, V/ LT TN LCH ON DISH, WK OIL ODOR

3176'-3179' LS- OFF WHT TO CRM, HD DNS TO BRIT, F XLN SUCRO MTRX, ABTD IMBD OOL THRU, ABTD OOLMLD THRU, NO VIS FLO, PR TO FR OOLMLD POR IN 35%, NO VIS CUT OR SHOW

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

LANSING "H" 3217' -1387'
 LS- CRM, HD DNS TO BRIT IP, V/F TO F XLN RE-XLN MTRX, S-CHLKY IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

SH- DK GY, FRM BLKY, SMTH TXT

3222'-3225' LS- CRM W/ TN OIL STN IN 20%, HD DNS TO BRIT IP, F XLN SUCRO MTRX, S-CHLKY, IMBD OOL IP, TR IMBD DISS PYR IP, SFT WHT CHLK IN TRAY, DUL YEL GLD FLO SCAT IN 10%, PR INTR OOL POR IN 5%, WK FLSH CUT IN 30%, GD SLW STRM IN 30%, TN LCH ON DISH

LS- LT TN TO TN, HD DSN, V/F TO F XLN MTRX, TR PYR IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- LT TN TO TN, HD DNS TO BRIT IP, V/F TO F XLN MTRX, TR S-SUCRO, TR IMBD CALC XLS IP, TR IMBD DIS PYR, NO VIS FLO, NO VIS POR, NO VIS SHOW

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

LS- TN, HD DNS, V/F TO F XLN MTX, ABTD IMBD OOL THRU, V/ PR VUG POR IN 1%, NO VIS FLO, NO VIS POR, NO VIS SHOW

SH- BRWN GY TO DK GY, FRM BLKY TO SFT SPLNT, SMTH TO SLTY TXT

BKC 3305' -3280'
 LS- TN TO DK TN, HD DNS TO BRIT IP, F TO MD XLN RE-XLN MTRX, IMBD FOSS FRG IP, TR IMBD TN CHRT IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

3310'-3312' LS- TN W/ DOS IN 20%, HD DNS TO BRIT IP, V/F TO F XLN MTRX, DUL YEL GLD FLO IN 20%, PR MICRO VUG POR IN 5%, NO FLSH CUT, PR TO FR SLW STRM IN 10%, NO LCH ON DISH

3317'-3318' SS- CLR TO FRSTY W/ TN OIL STN IN 80%, QTRZ GRN, TT TO FRI, F TO CRS GRN S-ANG TO S-RND GRN, V/ PR SRT,CALC CMNT, SLI TR IMBD PYR, DUL YEL GLD FLO IN 80%, BRT YEL GLD FLO IN 5%, V/ PR INTR GRN POR IN 15%, FR INTR GRN POR IN 5%, GD FLSH CUT THRU, GD SLW STRM IN 70%, TN LCH ON DISH, NO OIL ODOR

CONG- LS- TN, HD DNS, F TO MD RE-XLN MTRX, SH- BRWN TO GY, SFT GMMY, CHRT- TN YEL TO ORNG, QRTZ XLS,

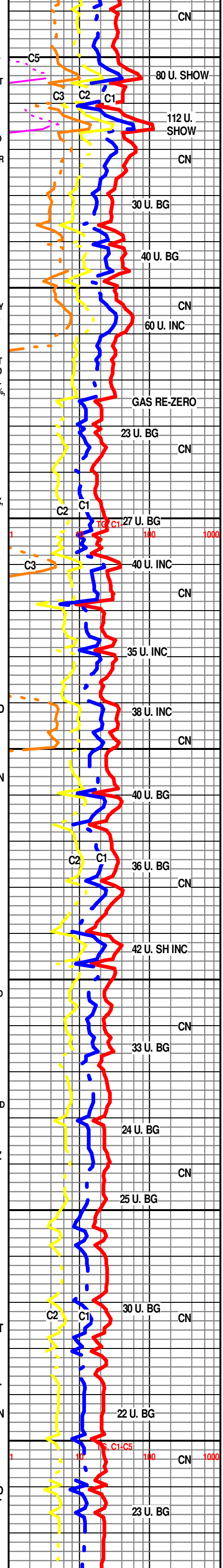
ARBUCKLE 3343' -1513'
 3344'-3346' DOLO- CRM TO LT TN, HD DNS, F XLN SUCRO MTRX, ABTD IMBD SM S-RND DOLO GRNS THRU, DUL YEL GLD FLO THRU, PR INTR GRN POR IN 5%, FR FLSH CUT IN 70%, FR TO GD SLW STRM IN 60% V/ LT TN LCH ON DISH

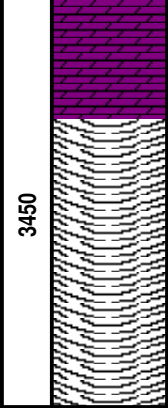
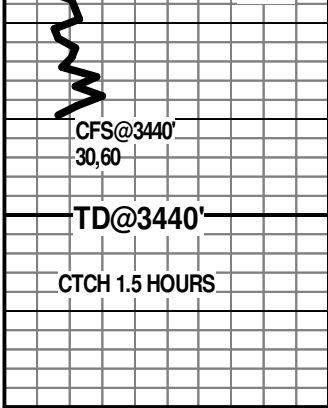
3358'-3359' DOLO- OFF WHT TO CRM W/ TN OIL STN IN 20%, HD DNS TO BRIT, F XLN RE-XLN MTRX, ABTD IMBD SM TO MD S-ANG DOLO GRNS THRU, DUL YEL GLD FLO IN 20%, PR TO FR INTR GRN POR IN 10%, V/WK FLSH CUT IN 30%, PR SLW STRM IN 10%, NO LCH ON DISH

3366'-3370' DOLO- OFF WHT TO LT TN W/ TN OIL STN IN 40%, HD DNS TO BRIT, F TO MD XLN RE-XLN MTRX, ABTD IMBD SM TO MD S-ANG DOLO GRNS, DUL YEL GLD FLO IN 50%, FR TO GD INTR GRN POR IN 10%, FR FLSH CUT IN 50%, FR SLW STRM IN 30%, V/ LT TN LCH ON DISH

3377'-3379' DOLO- OFF WHT TO CRM W/ TN OIL STN IN 10%, HD DNS TO BRIT IP, F XLN RE-XLN MTRX, ABTD IMBD SM TO MD S-ANG DOLO GRNS THRU, BRT YEL GLD FLO IN 10%, FR TO GD GRN POR IN 15%, V/WK FLSH CUT IN 20%, PR SLW STRM IN 20%, NO LCH ON DISH

3384'-3387' DOLO, CRM TO LT TN W/ TN OIL STN IN 40%, HD DNS TO BRIT, F XLN RE-XLN MTRX, ABTD IMBD MD





S-ANG TO ANG DOLO GRNS THRU, DUL YEL GLD FLO IN 40%, BRT YEL GLD FLO IN 5%, GD INTR GRN POR IN 25%, FR FLSH CUT IN 50%, FR TO GD SLW STRM IN 50% TN LCH ON DISH

R.T.D. @ 4:55 AM 7/17/12

DROP SURVEY

T.O.F.L. @ 6:25 AM

WEATHERFORD/LIBERAL

