



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1166443
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: _____



1166443

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> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	LAWRENCE 1-25
Doc ID	1166443

All Electric Logs Run

DEN-NEUT
INDUCTION
MICRO
SONIC
SPECTRAL

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

November 01, 2013

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

Re: ACO1
API 15-051-26563-00-00
LAWRENCE 1-25
SE/4 Sec.25-14S-18W
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: 7/13/2013
 Invoice # 7981
 P.O.#:
 Due Date: 8/12/2013
 Division: Russell

Invoice

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

RECEIVED

JUL 22 2013

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

Reference:
 LAWGRANCE 1-25

Description of Work:
 LONG SURFACE JOB

DRLG COMP W/O LOE GG

Account	8200138
Well/Prospect	
Deck	
AFE	
Approval	NA
Description	

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 991.39	No	Bulk Truck Mileage-Job to Nearest Bulk Plant	7	\$44.38	No
Common-Class A	425	\$ 5,786.31	Yes				
8 5/8" Basket	3	\$ 1,029.26	Yes				
Bulk Truck Mat-Material Service Charge	448	\$ 972.80	No				
Calcium Chloride	15	\$ 776.18	Yes				
Flo Seal	100	\$ 217.14	Yes				
8 5/8" Centralizer	3	\$ 208.46	Yes				
Premium Gel (Bentonite)	8	\$ 141.40	Yes				
8 5/8" Top Rubber Plug	1	\$ 115.09	Yes				
Baffle Plate Aluminum, 8 5/8"	1	\$ 97.71	Yes				
Pump Truck Mileage-Job to Nearest Camp	7	\$ 75.85	No				

Invoice Terms:

Net 30

SubTotal: \$ 10,455.97
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,568.40)

SubTotal for Taxable Items:	\$ 7,115.82
SubTotal for Non-Taxable Items:	\$ 1,771.76
Total:	\$ 8,887.57
Tax:	\$ 448.30

6.30% Ellis County Sales Tax

Thank You For Your Business!

Amount Due: \$ 9,335.87
Applied Payments:
Balance Due: \$ 9,335.87

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. 7981

Date	7-13-13	Sec.	25	Twp.	14	Range	18	County	Ellis	State	KS	On Location		Finish	12:45 P.M.
								Location	Munjok 3/8 S Winto						

Lease	Lawrence	Well No.	1-25	Owner	To Quality Oilwell Cementing, Inc.
Contractor	Val #6	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.	9.53	Charge To	Sam Coany J. & Associates
Csg.	8 5/8	Depth	9.53	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.	42.82	Shoe Joint	42.82	Cement Amount Ordered	425 com 3/16 4/2/6 1/4 1/4
Meas Line		Displace.	5 7 3/4 B/L		

EQUIPMENT

Pumptrk	17	No.	Cement Helper	Common	425
Bulktrk		No.	Driver	Poz. Mix	
Bulktrk	12	No.	Driver	Gel.	8
			Driver	Calcium	15

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal 100#
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
	Sand
	Handling 448
	Mileage

FLOAT EQUIPMENT

Guide Shoe	8 5/8
Centralizer	3
Baskets	3
AFU Inserts	Baffle Plate
Float Shoe	Rubber Plug
Latch Down	

Pumptrk Charge	Long Surface
Mileage	7

Signature	Fang Ma	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: 7/18/2013
 Invoice # 7988

P.O.#:

Due Date: 8/17/2013

Division: Russell

Invoice

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

RECEIVED

JUL 24 2013

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

Reference:
 LAWHRANCE 1-25

Description of Work:
 PLUG JOB

DRLG COMP W/O LOE GG

Account	5200.145
Well/Prospect	
Deck	
AFE	
Approval	AG
Description	

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 1,020.55	Yes				
Common-Class A	138	\$ 1,934.11	Yes				
Bulk Truck Mat-Material Service Charge	238	\$ 532.00	Yes				
POZ Mix-Standard	92	\$ 472.99	Yes				
Premium Gel (Bentonite)	8	\$ 145.56	Yes				
Flo Seal	50	\$ 111.76	Yes				
Pump Truck Mileage-Job to Nearest Camp	7	\$ 78.08	Yes				
Dry Hole Plug	1	\$ 62.59	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	7	\$ 45.69	Yes				

Invoice Terms:

Net 30

SubTotal:	\$	4,403.33
Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:	\$	(660.50)
<hr/>		
SubTotal for Taxable Items:	\$	3,742.83
SubTotal for Non-Taxable Items:	\$	-

~~6.50%~~ Ellis County Sales Tax

6.15%

Thank You For Your Business!

Total:	\$	3,742.83
Tax:	\$	235.80 230.18
Amount Due:	\$	3,978.63
Applied Payments:		
Balance Due:	\$	3,978.63

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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\$ 3973.01

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. 7988

Date	7-18-13	Sec.	25	Twp.	14	Range	18	County	Ellis	State	KS	On Location		Finish	4:45 AM
								Location							

Lease LAWRENCE Well No. 1-25 Owner

Contractor Val #6 To Quality Oilwell Cementing, Inc.
Type Job Rotary Plug You are hereby requested to rent cementing equipment and furnish
Hole Size 7 7/8 T.D. 3690 Charge To Sam Gray Jr & Associates
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 230⁶⁰/40 4 1/2 LEL 1/4 #F10

Meas Line Displace
EQUIPMENT
Pumptrk 15 No. Cementer Maria Common 138
Bulktrk No. Helper Bill Poz. Mix 92
Bulktrk 8 No. Driver Tommy M. Gel. 8
Driver Calcium

JOB SERVICES & REMARKS
Remarks:
Rat Hole 30SK Flowseal 50#
Mouse Hole 15SK Kol-Seal
Centralizers Mud CLR 48
Baskets CFL-117 or CD110 CAF 38
D/V or Port Collar Sand
1st 3574 50SK Handling 238
2nd 1174 25SK Mileage
3rd 515 100SK
4th 40' 10SK

FLOAT EQUIPMENT
Guide Shoe
Centralizer
Baskets
AFU Inserts
Float Shoe
Latch Down
1 8 5/8 Dry Hole plug
Pumptrk Charge plug
Mileage 7

Tax
Discount
Total Charge

X Signature Randy O Martin



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates

25-14s-18w

1515 Wynkoop Ste 700
Denver Co 80202

Lawrence 1-25

Job Ticket: 041060

DST#: 1

ATTN: Chris Mitchell

Test Start: 2013.07.16 @ 20:28:03

GENERAL INFORMATION:

Formation: **Lansing-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:25:33

Time Test Ended: 03:25:03

Test Type: Conventional Bottom Hole (Initial)

Tester: Jeff Brown

Unit No: 67

Interval: 3320.00 ft (KB) To 3355.00 ft (KB) (TVD)

Reference Elevations: 1976.00 ft (KB)

Total Depth: 3355.00 ft (KB) (TVD)

1966.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 6625 Inside

Press @ Run Depth: 45.99 psig @ 3323.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.07.16

End Date:

2013.07.17

Last Calib.:

2013.07.17

Start Time: 20:28:04

End Time:

03:25:03

Time On Btm:

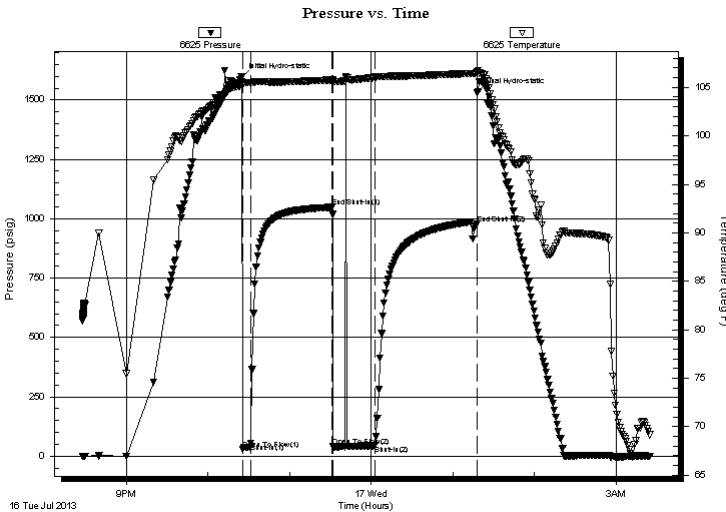
2013.07.16 @ 22:25:03

Time Off Btm:

2013.07.17 @ 01:18:03

TEST COMMENT: IFP=5-Min=Fair blow built to 4-3/4 in
ISI=60-Min=Dead no blow back
FFP=30-min=Dead-Flushed Tool -Surged Then died
FSI=60-Min=Dead no blow back

PRESSURE SUMMARY



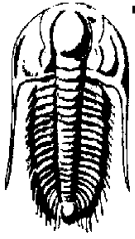
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1595.30	105.62	Initial Hydro-static
1	27.96	105.35	Open To Flow (1)
7	53.14	105.48	Shut-In(1)
66	1048.71	105.77	End Shut-In(1)
67	40.45	105.63	Open To Flow (2)
98	45.99	106.05	Shut-In(2)
173	977.19	106.46	End Shut-In(2)
173	1530.85	106.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Mud w ih oil spots	0.84

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates

25-14s-18w

1515 Wynkoop Ste 700
Denver Co 80202

Lawrence 1-25

Job Ticket: 041060

DST#: 1

ATTN: Chris Mitchell

Test Start: 2013.07.16 @ 20:28:03

GENERAL INFORMATION:

Formation: **Lansing-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:25:33

Time Test Ended: 03:25:03

Test Type: Conventional Bottom Hole (Initial)

Tester: Jeff Brown

Unit No: 67

Interval: **3320.00 ft (KB) To 3355.00 ft (KB) (TVD)**

Reference Elevations: 1976.00 ft (KB)

Total Depth: 3355.00 ft (KB) (TVD)

1966.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8167 Fluid

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

Capacity: 8000.00 psig

Start Date: 2013.07.16

End Date: 2013.07.17

Last Calib.: 2013.07.17

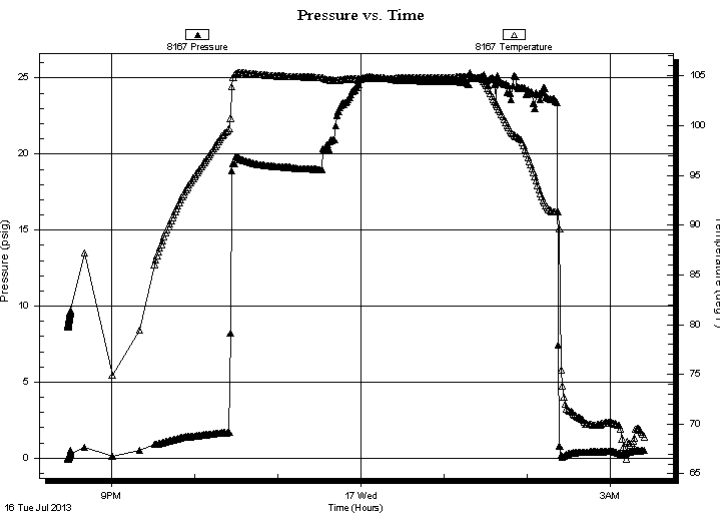
Start Time: 20:28:18

End Time: 03:25:17

Time On Btm:

Time Off Btm:

TEST COMMENT: IFP=5-Min=Fair blow built to 4-3/4 in
ISI=60-Min=Dead no blow back
FFP=30-min=Dead-Flushed Tool -Surged Then died
FSI=60-Min=Dead no blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Mud w ih oil spots	0.84

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr & Associates

25-14s-18w

1515 Wynkoop Ste 700
Denver Co 80202

Lawrence 1-25

Job Ticket: 041060

DST#: 1

ATTN: Chris Mitchell

Test Start: 2013.07.16 @ 20:28:03

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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	Mud w ih oil spots	0.842

Total Length: 60.00 ft Total Volume: 0.842 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

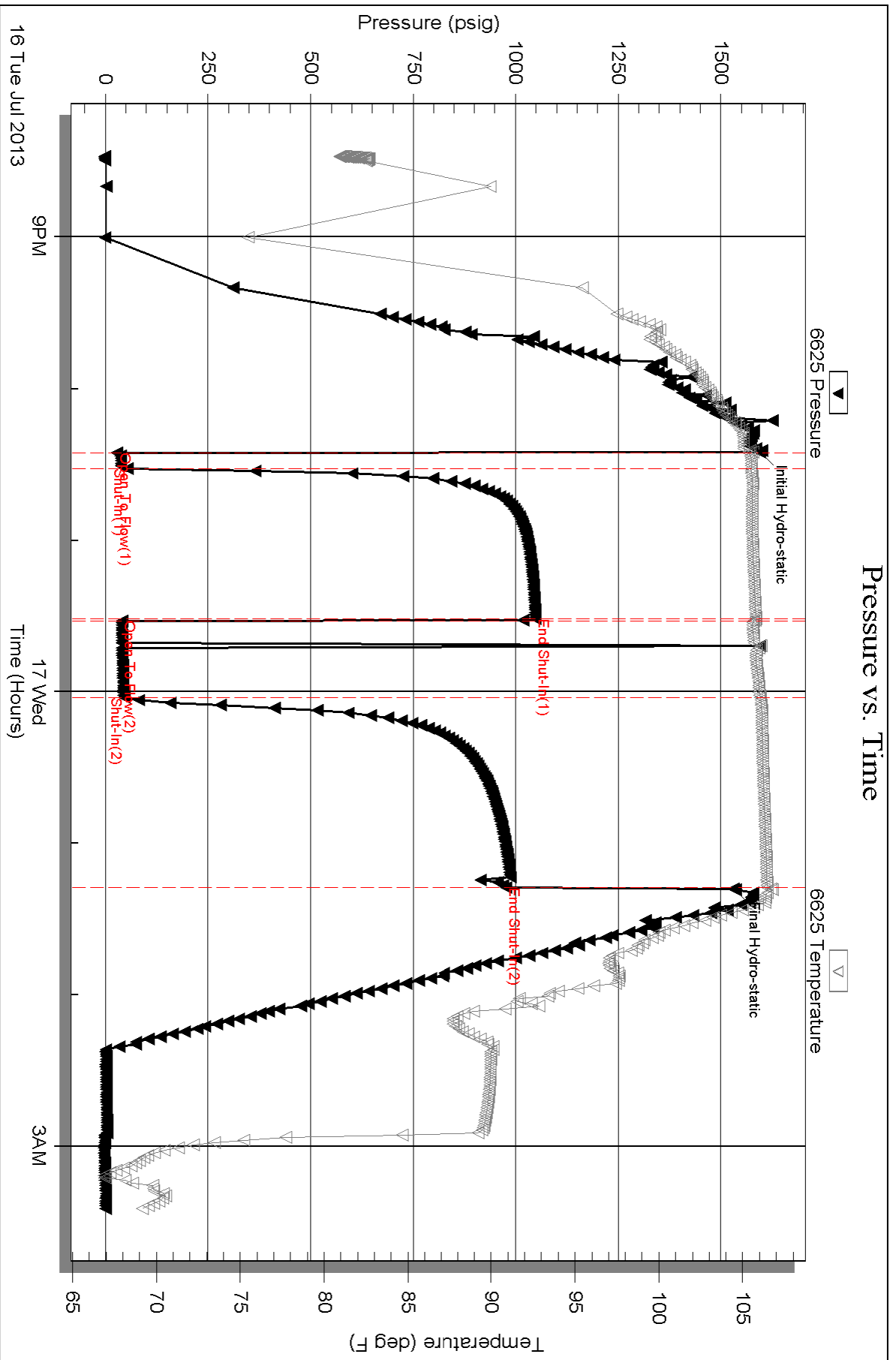
Laboratory Location:

Recovery Comments: 2000 ML of total fluid

2000 ML Mud w ith oil spots

220 Psi

Pressure vs. Time



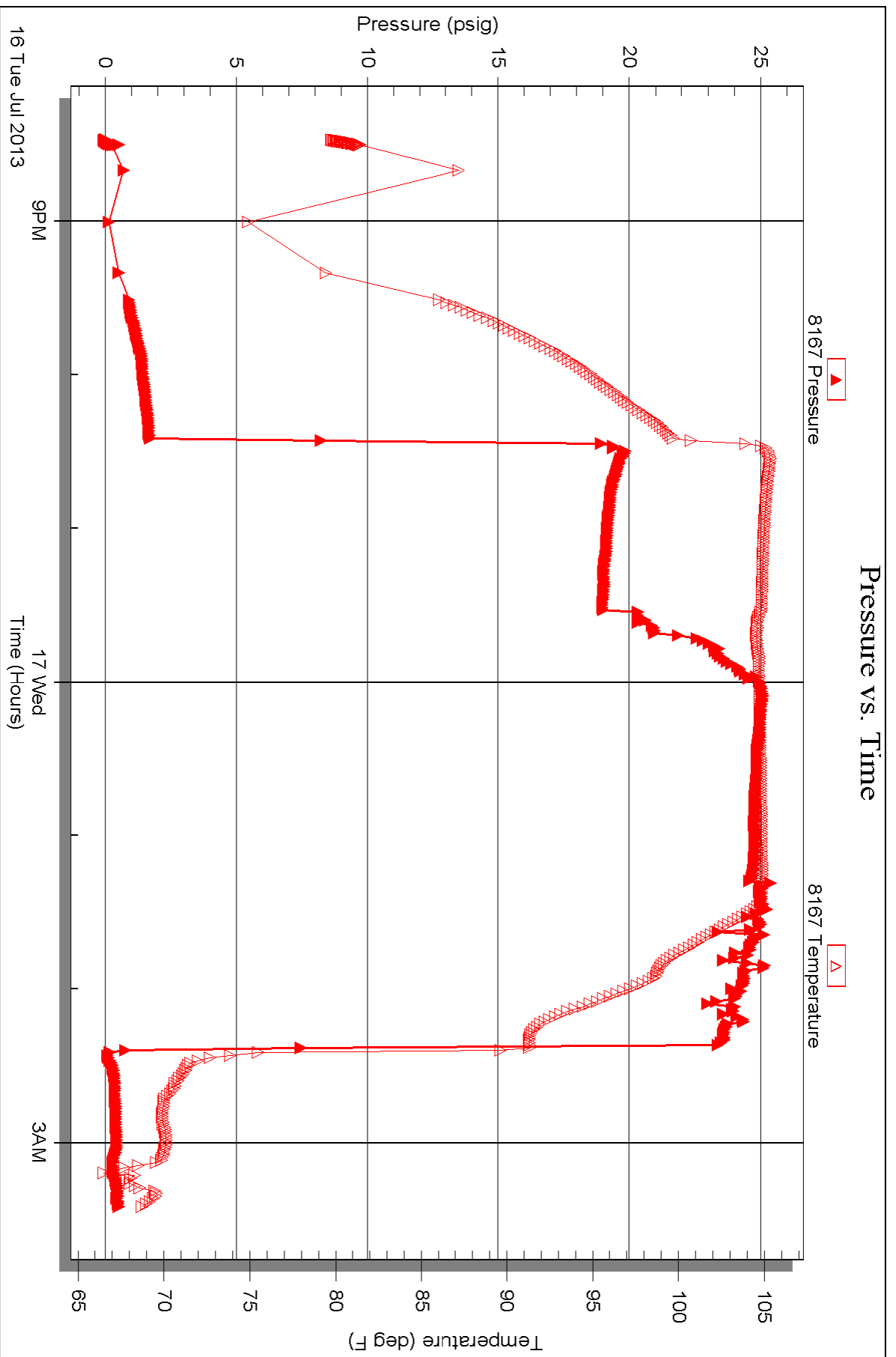
Serial #: 8167

Fluid

Samuel Gary Jr & Associates

Lawrence 1-25

DST Test Number: 1





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates

25-14s-18w

1515 w ynkoop Ste 700
Denver Co 80202

Lawrence 1-25

Job Ticket: 041061

DST#: 2

ATTN: Chris Mitchell

Test Start: 2013.07.17 @ 17:59:25

GENERAL INFORMATION:

Formation: **Lansing-I-J-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:51:25

Time Test Ended: 01:48:55

Test Type: Conventional Bottom Hole (Reset)

Tester: Jeff Brown

Unit No: 67

Interval: 3406.00 ft (KB) To 3476.00 ft (KB) (TVD)

Reference Elevations: 1976.00 ft (KB)

Total Depth: 3476.00 ft (KB) (TVD)

1966.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 6625 Inside

Press @ Run Depth: 37.36 psig @ 3444.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.07.17

End Date:

2013.07.18

Last Calib.:

2013.07.18

Start Time:

17:59:26

End Time:

01:44:55

Time On Btm:

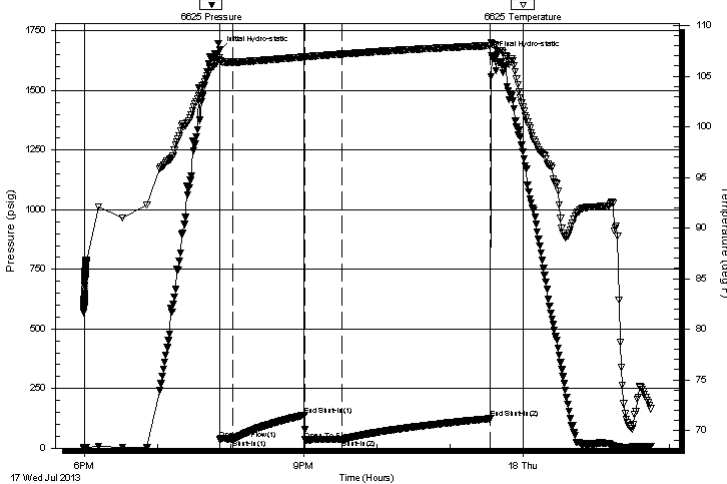
2013.07.17 @ 19:50:55

Time Off Btm:

2013.07.17 @ 23:34:25

TEST COMMENT: IFP=10-min=Weak blow built to 2-1/2 in
ISI=60-min=Dead no blow back
FFP=30-min=Fair blow built to 4 in
FSI=120-min=Dead no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1669.44	106.81	Initial Hydro-static
1	37.14	106.52	Open To Flow (1)
11	37.62	106.39	Shut-In(1)
70	138.52	106.90	End Shut-In(1)
71	34.33	106.91	Open To Flow (2)
101	37.36	107.18	Shut-In(2)
222	123.44	108.02	End Shut-In(2)
224	1647.63	108.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	OCM 10%O 90%M	0.21

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates

25-14s-18w

1515 w ynkoop Ste 700
Denver Co 80202

Lawrence 1-25

ATTN: Chris Mitchell

Job Ticket: 041061

DST#: 2

Test Start: 2013.07.17 @ 17:59:25

GENERAL INFORMATION:

Formation: Lansing-I-J-K
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:51:25
Time Test Ended: 01:48:55
Interval: 3406.00 ft (KB) To 3476.00 ft (KB) (TVD)
Total Depth: 3476.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Reference Elevations: 1976.00 ft (KB)
1966.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8167 Fluid
Press @ Run Depth: psig @ 3372.00 ft (KB)
Start Date: 2013.07.17 End Date: 2013.07.18
Start Time: 17:59:29 End Time: 01:44:58
Capacity: 8000.00 psig
Last Calib.: 2013.07.18
Time On Btm:
Time Off Btm:

TEST COMMENT: IFP=10-min=Weak blow built to 2-1/2 in
ISI=60-min=Dead no blow back
FFP=30-min=Fair blow built to 4 in
FSI=120-min=Dead no blow back

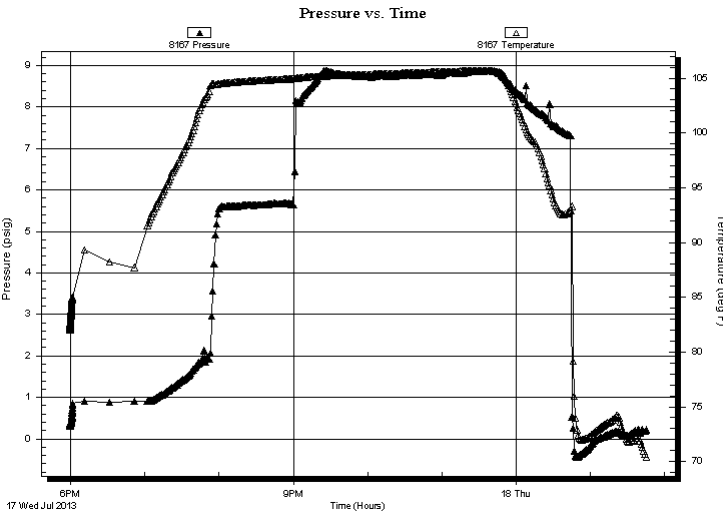


Table with 4 columns: Time (Min.), Pressure (psig), Temp (deg F), and Annotation. This area is currently empty.

Recovery table with 3 columns: Length (ft), Description, and Volume (bbl).
Row 1: 15.00, OCM 10%O 90%M, 0.21

* Recovery from multiple tests

Gas Rates table with 4 columns: Choke (inches), Pressure (psig), and Gas Rate (Mcf/d). This area is currently empty.



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr & Associates

25-14s-18w

1515 Wynkoop Ste 700
Denver Co 80202

Lawrence 1-25

Job Ticket: 041061

DST#: 2

ATTN: Chris Mitchell

Test Start: 2013.07.17 @ 17:59:25

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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	OCM 10%O 90%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: 2000 ML of total fluid =MCWO 5%W 40%M 55%O

100 PSI

800 ML of mud-100 ML of water-1100 ML of oil

Serial #: 6625

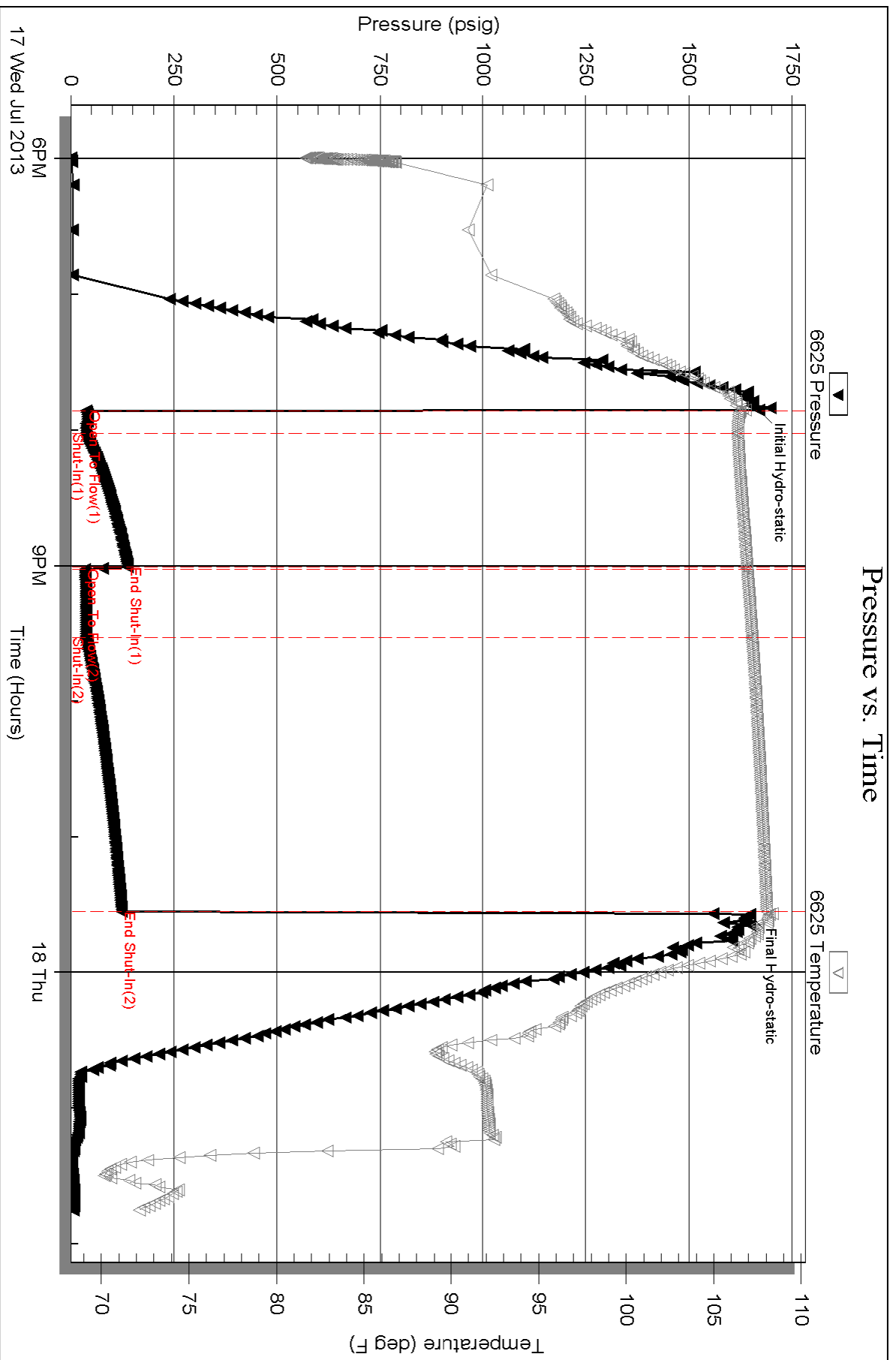
Inside

Samuel Gary Jr & Associates

Lawrence 1-25

DST Test Number: 2

Pressure vs. Time



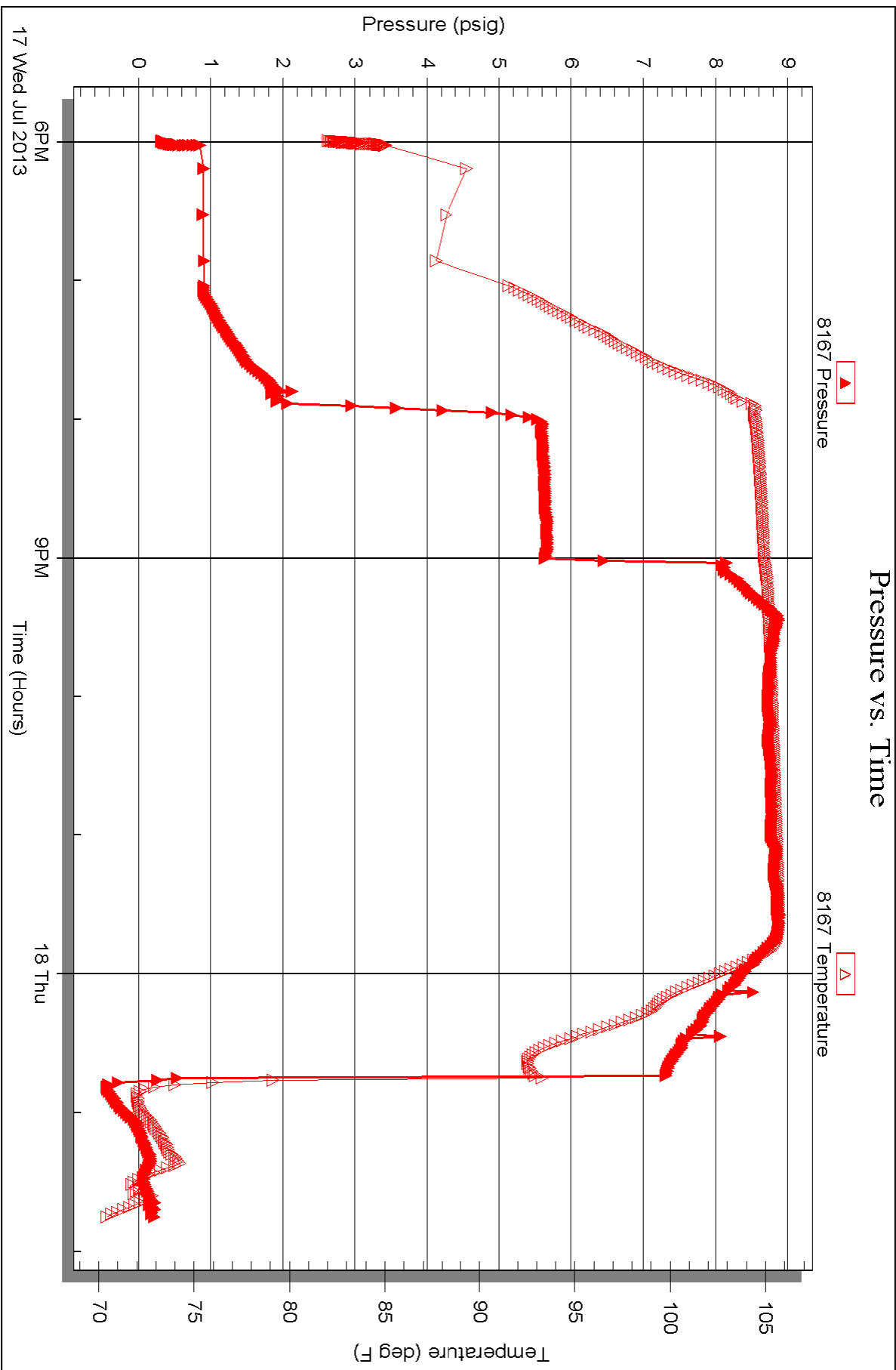
Serial #: 8167

Fluid

Samuel Gary Jr & Associates

Lawrence 1-25

DST Test Number: 2





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

Well Name: Lawrence 1-25
 Location: Sec. 25-14S-18W Ellis County, Kansas
 License Number: 15-051-26563-0000
 Spud Date: 7/12/13
 Surface Coordinates: 1450 FNL, 525 FWL
 Region: Wildcat
 Drilling Completed: 7/18/13

Bottom Hole Coordinates:
 Ground Elevation (ft): 1966' K.B. Elevation (ft): 1976'
 Logged Interval (ft): 1800' To: 3690' Total Depth (ft): 3690'
 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: Jeff Quimby
 Company: Earth Tech OGL, Inc.
 Address: PO Box 683
 Hooker, Okla . 73945
 Off. 888-543-8378 Cell: (580)754-0411

DST's Report

DST #1 3320'-3355' 5 60 30 60
 IFP-FB/ISI-DEAD NB/FFP-DEAD/FSI-DEAD NB
 IH-1595, FH-1531/ IF-28 TO 53/IS-40 TO 46/ISI-1049/FSI-977
 RECOVERY- 60' MD W/ OIL SPOTS
 CHLORIDES 2000 PPM/ SAMPLER 2000 ML MUD 220 PSI
 TOTAL 2000 ML MUD

DST's Report

DST #2 3406'-3476' 10 60 30 120
 IFP-WB/ISI-DEAD NB/FFP-FB/FSI-DEAD NB
 IH-1669, FH-1648/IF- 37 TO 38/IS-34 TO 37/ISI-139/FSI-123
 RECOVERY- 15' OCM 10%O 90%M
 CHLORIDES 2200PPM/SAMPLER 1100ML O 800ML M 100ML W 100 PSI
 TOTAL 2000ML
 PIT MUD ANALYSIS MCWO 5%W 40%M 55%O

DST's Report

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
 Sitysh
 Lms

ACCESSORIES

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brefracg
- 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
- Slty

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
- Sandyms
- 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

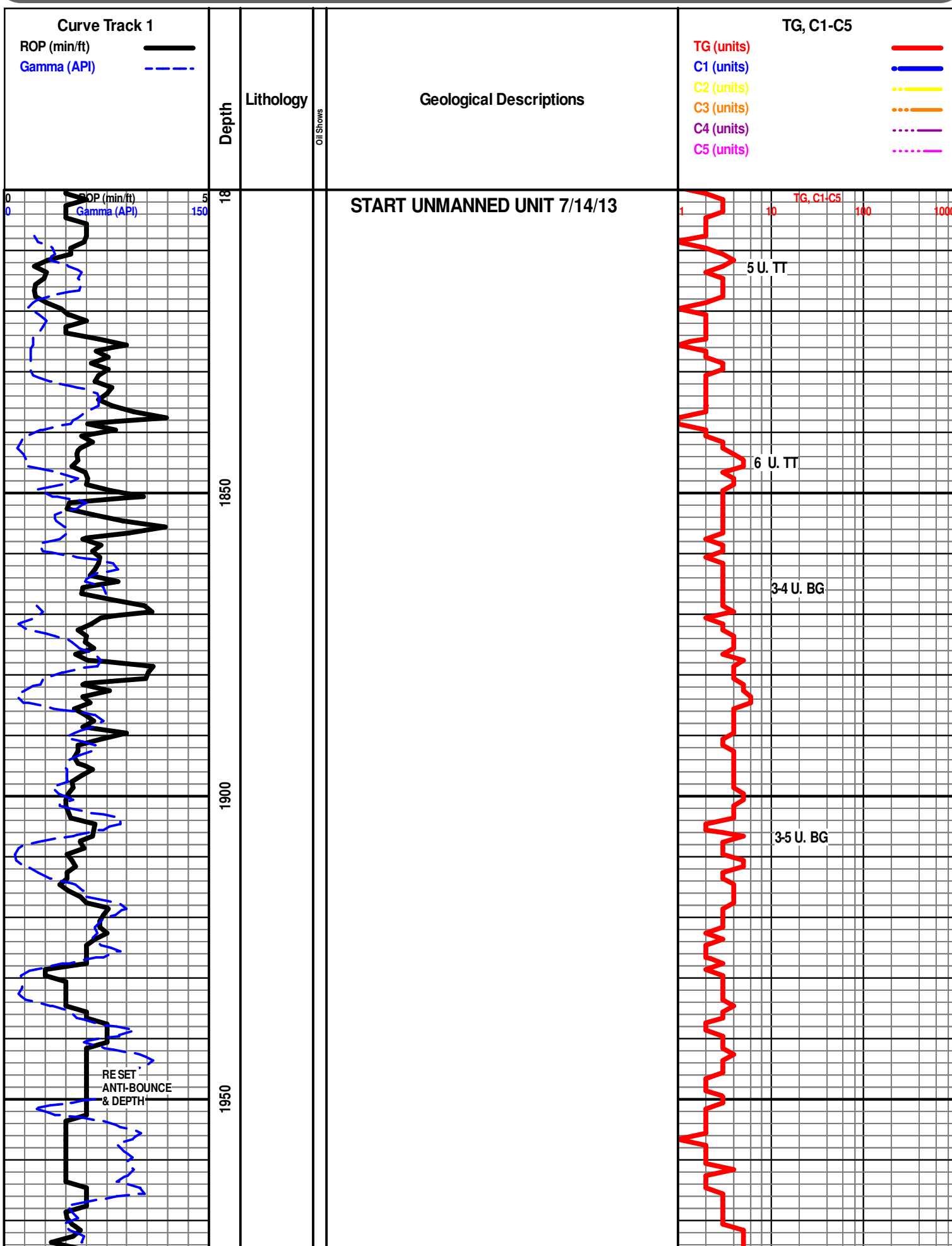
- Even
- Spotted
- Ques
- Dead
- Gas show

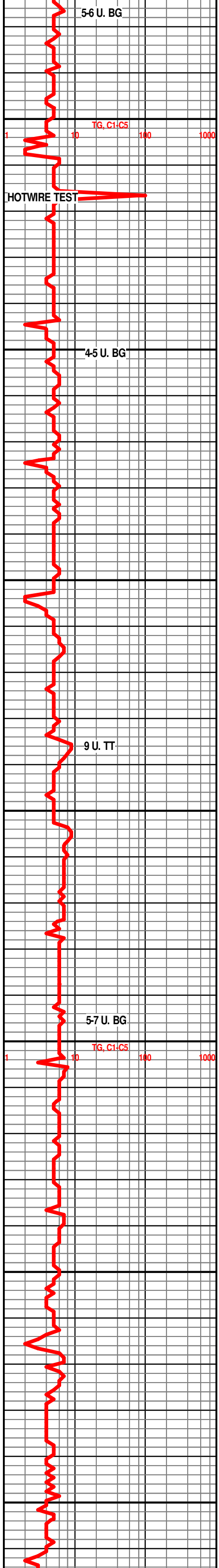
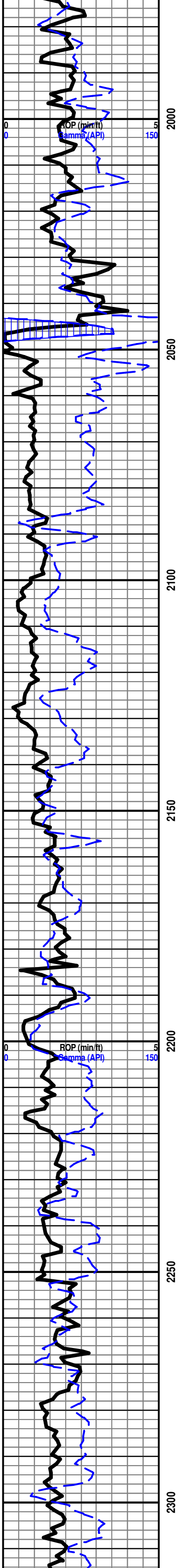
INTERVALS

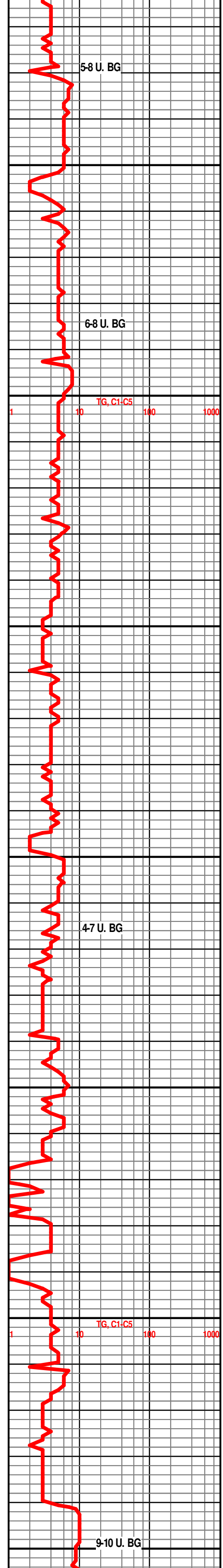
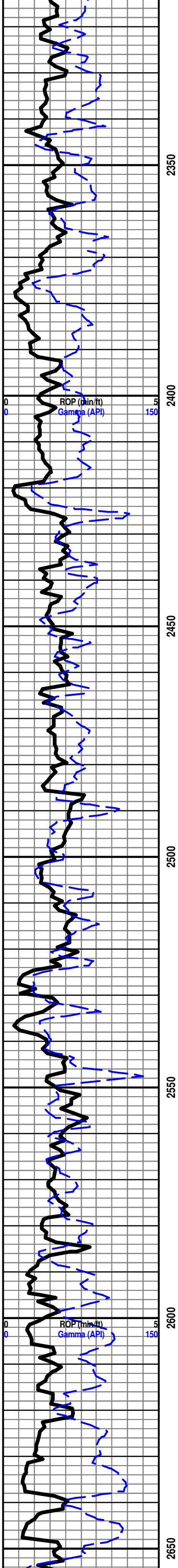
- Core
- Dst
- Dst

EVENTS

- Rft
- Sidewall







ROP (min/ft)
Gamma (API)

ROP (min/ft)
Gamma (API)

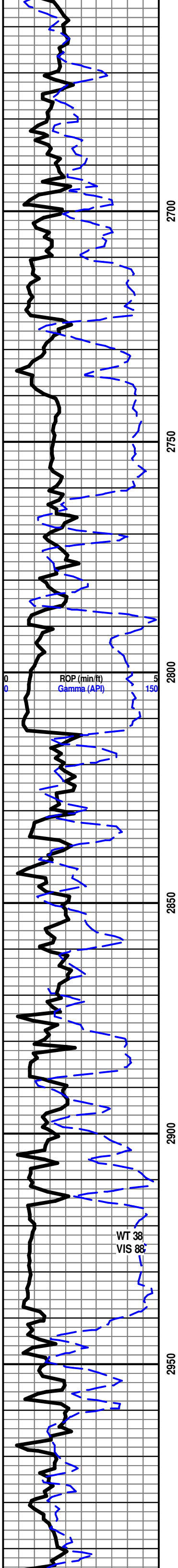
TG, C1-C5

5-8 U. BG

6-8 U. BG

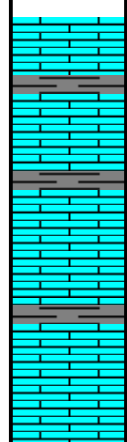
4-7 U. BG

9-10 U. BG



WT 38
VIS 88

2700
2750
2800
2850
2900
2950

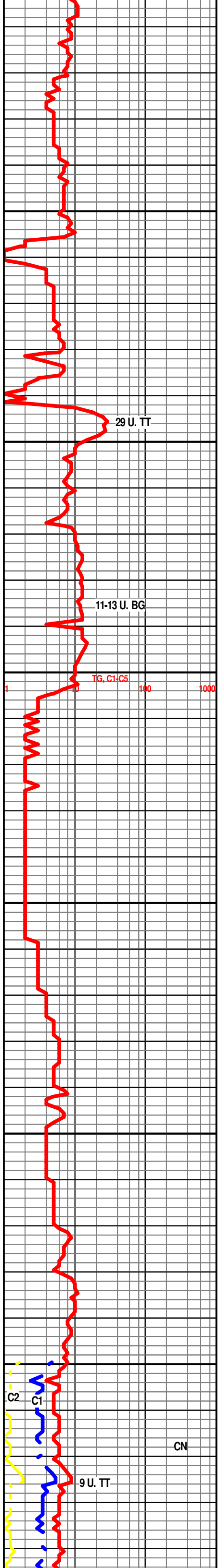


HOWARD 2938' -962'

START 24 HOUR MANNED UNIT 7/15/13

LS- OFF WHT CRM, HD DNSE SLI BRITT IP, MD-XLN
RE-XLN IP, TRS IMBD CALC XLS IP, NO VIS FLO, NO VIS
POR, NO VIS CUT OR SHOW

LS- LT GRY TO OFF WHT, HD DNSE TO BRITT IP, FN-XLN
TO SLI MD-XLN, RE-XLN MTRX, NO VIS FLO, NO VIS POR,
NO VIS CUT OR SHOW



29 U. TT

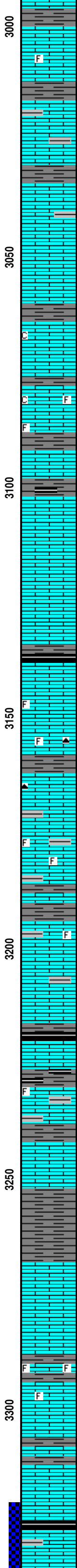
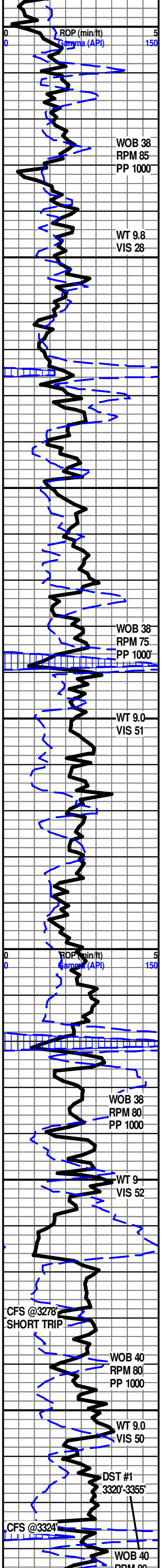
11-13 U. BG

TG, C1-C5

C2 C1

CN

9 U. TT



TOPEKA 2998' -1022'

3006'-3009' LS- OFF WHT TO LT GRY IP(W/ LT TN OIL STAIN ON 5%), HD DNSE, FN-XLN TO SLI MD-XLN RE-XLN MTRX, SCATT IMBD CALC XLS, TRS IMBD FOSS FRGS IP, BRIT YEL GLD FLO IN 10%, TRS INTER XLN POR IN 5%, NO VIS CUT

LS-OFF WHT LT GRY TO MOTTED GRY, HD DNSE, FN-XLN RE-XLN MTRX, SCATT IMBD DISS GRY SH, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

LS- LT GRY, HD DNSE, FN-XLN SUB-SUCRO MTRX IP, SCATT IMBD CALC XLS, TRS IMBD LT GRY SH, DLL YEL FLO IP, NO VIS POR, NO VIS CUT OR SHOW

LS- OFF WHT LT GRY MOTTED, HD DNSE, FN V/FN-XLN TO SLI SUB-CHLKY IP, TRS IMBD SFT WHT TO GMMY CHLK IMBD, DLL YEL MIN FLO, NO VIS POR, NO VIS CUT OR SHOW

LS- OFF WHT MOTTED LT GRY IP, HD DNSE TO SLI BRITT IP, FN-XLN TO SLI MD-XLN, RE-XLN MTRX IP, IMBD FOSS FRGS IP, TRS IMBD SFT CHLK IP, DLL YEL MIN FLO, NO VIS POR, NO VIS CUT OR SHOW

LE COMPTON 3100' -1124'

LS- OFF WHT WHT, HD DNSE, FN-XLN RE-XLN MTRX IP, SLI SUB-SUCRO IP, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

LS- OFF WHT, HD DNSE, FN-XLN TO SUB-SUCRO IP, RE-XLN MTRX IP, IMBD CALC XLS IP, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

SH- BLK SFT CARB

LS- OFF WHT TO LT GRY, HD DNSE, MD-FN-XLN SLI RE-XLN MTRX, OFF WHT TO LT GRY CHRT IN TRAY, TRS IMBD FOSS FRGS IP, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

LS- OFF WHT WHT TO CRM, HD DNSE, MD-XLN TO FN-XLN RE-XLN MTRX, SCATT IMBD FOSS FRGS IP, TRS IMBD GRY SH, DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

SH- GRY TO MD GRY, FRM TO SFT BRITT IP, SPLNTY

LS- OFF WHT CRM TO LT GRYG RY IP, HD DNSE TO SLI BRITT IP, MD-FN-XLN TO FN-XLN RE-XLN MTRX IP, IMBD LT GRY DISS SH IP, TRS IMBD CALC XLS, TRS IMBD FOSS FRGS IP, DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

HEEBNER 2919' -1243'

SH- BLK SFT CARB

SH- GRY TO DRK GRY, SLI FRM TO SFT BRITT, TRS BLK CARB IN TRAY, SPLNTY

LS- OFF WHT TO MOTTED GRY, HD DNSE, MD-XLN SLI RE-XLN MTRX IP, SCATT IMBD GRY SH, TRS IMBD FOSS FRGS IP, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

DOUGLAS 3257' -1281'

SH- GRY TO DRK GRY, FRM TO V/SFT BRITT, SPLNTY TO BLKY

LANSING 3269' -1293'

LS- OFF WHT WHT CRM (W/ TRS V/ LT TN OIL STAIN ON 12%) HD DNSE TO TRS BRITT, FN-XLN TO SUCRO MTRX TRS SUB-CHLKY IP, BRIT YEL GLD FLO IN 20%, TRS INTER XLN POR IN 8%, V/ PR FLUSH CUT TRS PR SLW STRM CUT IN 5%

LANSING "C" 3295' -1319'

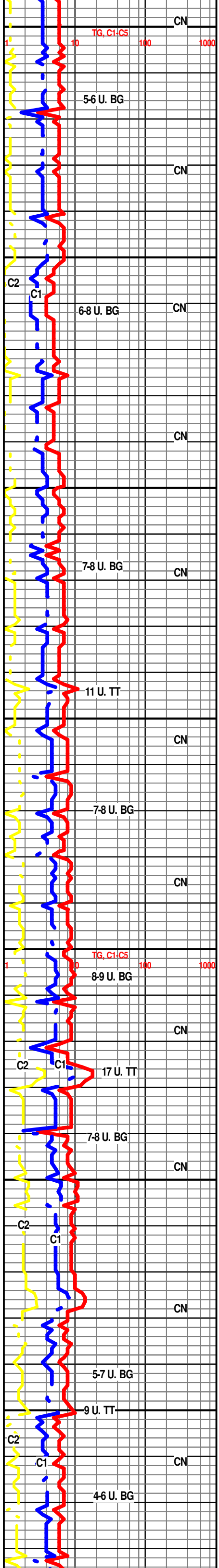
LS- OFF WHT CRM, HD DNSE TO SLI BRITT IP, FN-XLN RE-XLN MTRX IP, ABDT IMBD FOSS FRGS THRU IP, DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

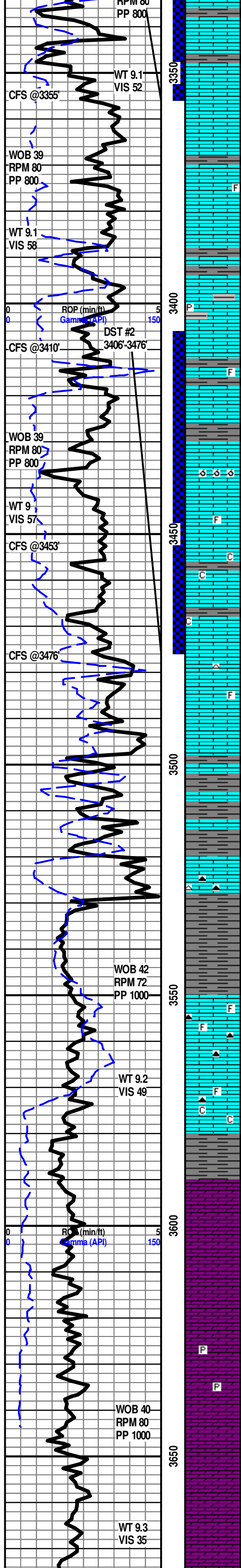
3301'-3304' LS- CRM TO LT GRY IP (W/ TN TO LT TN OIL STAIN ON 35%), HD DNSE TO BRITT, FN-XLN TO CRS SUCRO IP, BRIT YEL GLD ON 50%, VUG POR IN 10% TRS OOLMLD POR IN 5%, GD FLUSH CUT FR TO GD SLW STRM CUT IN 10%, PR OIL ODOR

LS- CRM, HD DNSE, FN-XLN TO SLI MD-XLN RE-XLN MTRX, TRS IMBD FOSS FRGS IP, DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

LANSING "F" 3331' -1355'

LS- OFF WHT CRM, HD DNSE, FN-XLN SLI RE-XLN MTRX, TRS IMBD LT GRY SH IP, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW





VIS CUT OR SHOW

LS- OFF WHT WHT (W/ BLK TO DRK BRWN OIL STAIN ON 45%), HD DNSE TO SLI BRITT, MD-XLN TO SUCRO MTRX THRU, TRS IMBD CALC XLS IP, DLL YEL GLD FLO IN 70%, TRS SMLL VUG POR (W/ LIVE BLK OIL) IN 12% TO INTERXLN POR IN 20%, EXCEL FLUSH CUT IN 70% EXCEL SLW STRM CUT IN 70%, PR TO FR OIL ODOR, TN LCH ON DISH

LS- WHT, HD DNSE, V/FN-XLN SLI RE-XLN MTRX IP, TRS IMBD FOSS FRGS IP, IMBD CALC XLS IP, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

LANSING "H" 3394' -1418'

LS- OFF WHT CRM TO GRY, HD DNSE TO SLI BRITT IP, SLI MD-FN-XLN TO FN-XLN RE-XLN MTRX, IMBD GRY SH IP, TRS IMBD CALC XLS IP, PYR CLUSTERS IN TRAY, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

3416'-3419' LS- OFF WHT CRM (W/ DRK TN OIL STAIN ON 22%), HD DNSE TO BRITT, MD-FN-XLN TO SUB-SUCRO MTRX, IMBD SMLL CALC XLS IP, IMBD MD TO LRG FOSS FRGS IP, BRIT YEL GLD FLO IN 25% DLL YEL FLO IN 30%, TRS VUG POR IN 10% (W/ TRS LIVE OIL) TO INTER FOSS POR IN 15%, FR TO GD FLUSH CUT IN 20% FR SLW STRM CUT IN 10%

3436'-3439' LS- CRM TO OFF WHT (W/ BLK TO DRK TN OIL STAIN ON 30%), HD DNSE TO BRITT IP, FN-XLN TO MD-XLN, ABDT IMBD SMLL OOLMLDS THRU, BRIT YEL GLD FLO IN 18%, OOLMLD POR IN 20% (W/ LIVE BLK OIL), EXCEL FLUSH CUT IN 30%, GD SLW STRM CUT IN 24%, GD OIL ODOR

LS- OFF WHT CRM, HD DNSE TO SLI BRITT IP, MD-XLN SUB-CHLKY MTRX IP, TRSIMBD SFT WHT CHLK IP TRS IMBD FOSS FRGS IP, DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

LS- OFF WHT TO LT TN IP, HD DNSE TO BRITT IP, FN-XLN TO SUCRO MTRX, IMBD CRS CALC XLS IP, WHT GMMY CHLK IN TRAY, DLL YEL GLD FLO IN 17%, NO VIS POR, NO VIS CUT OR SHOW

LS- OFF WHT WHT, HD DNSE, FN-XLN TO SLI RE-XLN MTRX, TRS WHT CHRT IN TRAY, TRS IMBD FOSS FRGS IP, DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

BKC 3498' -1522'

SH- RED TO GRY IP, SFT V/V/GMMY, BLKY

SH- RED, V/ SFT V/ GMMY, BLKY

LS- OFF WHT TO LT GRY, HD DNSE, FN-XLN, RE-XLN MTRX IP, OFF WHT TO RED CHRT IN TRAY, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

SH- GRY TO RED MOTTED, FRM TO SFT V/BRITT, BLKY

LS- OFF WHT WHT, HD TO BRITT, MD-XLN, IMBD FOSS FRGS THRU IP, OFF WHT TO TN CRM CHRT IN TRAY W/ IMBD FOSS FRGS THRU, DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

SH- GRY TO DRK GRY MOTTED RED, FRM TO SFT BRITT IP, BLKY TO SPLNTY

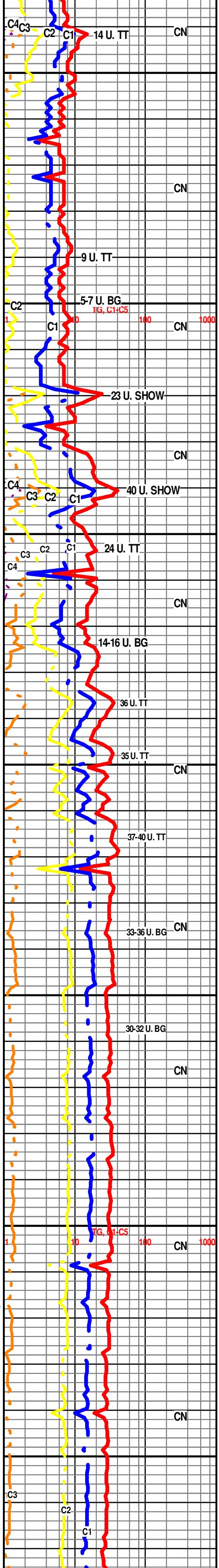
ARBUCKLE 3590' -1614'

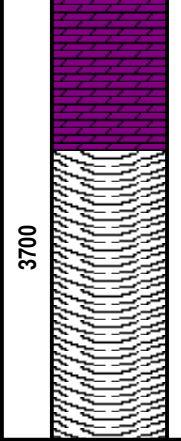
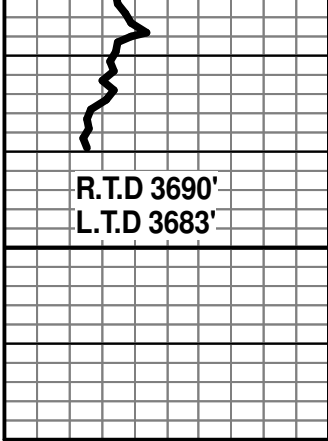
DOL- WHT, HD DNSE, MD-XLN TO CRS SUCRO MTRX, DLL YEL FLO TO NO FLO, NO VIS POR, NO VIS CUT OR SHOW

DOL- WHT, HD DNSE, MD-XLN SUCRO MTRX IP, TRS IMBD SMLL FOSS FRGS IP, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

DOL- OFF WHT WHT, HD DNSE, MD-XLN CRS SUCRO IP, TRS PYR IN TRAY, DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

DOL- WHT TO LT GRY IP, HD DNSE, MD-XLN, IMBD DOL XLS IP, DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW





R.T.D 3690" @1:44 P.M 07/18/13
CTCH FOR LOGS

