



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1177947
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: _____

1177947

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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> <i>(Submit ACO-4)</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	WITT 1-7
Doc ID	1177947

All Electric Logs Run

DEN-NEUT
INDUCTION
MICRO
SONIC
SPECTRAL GR



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: 9/24/2013
 Invoice # 7514

P.O.#:
 Due Date: 10/24/2013
 Division: Russell

Invoice

Contact:

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

Reference:
 WITT 1-7

Description of Work:
 LONG SURFACE JOB

RECEIVED

OCT 02 2013

SAMUEL GARY JR.
 & ASSOCIATES, INC.

<input type="checkbox"/> DRLG <input type="checkbox"/> COMP <input type="checkbox"/> W/O <input type="checkbox"/> LOE <input type="checkbox"/> GG	
Account	8200.138
Well/Prospect	
Deck	
Approval	<i>HS</i>
Description	

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 977.42	No				
Common-Class A	350	\$ 5,619.72	Yes				
8 5/8" Basket	3	\$ 1,014.76	Yes				
Bulk Truck Mat-Material Service Charge	370	\$ 792.11	No				
Calcium Chloride	13	\$ 663.21	Yes				
8 5/8" Centralizer	3	\$ 205.52	Yes				
Pump Truck Mileage-Job to Nearest Camp	20	\$ 213.66	No				
Premium Gel (Bentonite)	7	\$ 121.99	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	20	\$ 125.03	No				
8 5/8" Top Rubber Plug	1	\$ 113.46	Yes				
Baffle Plate Aluminum, 8 5/8"	1	\$ 96.34	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 9,943.22
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,491.48)

SubTotal for Taxable Items:	\$ 6,659.75
SubTotal for Non-Taxable Items:	\$ 1,791.99
Total:	\$ 8,451.74
Tax:	\$ 542.77

8.15% Russell County Sales Tax

Thank You For Your Business!

Amount Due: \$ 8,994.51
Applied Payments:
Balance Due: \$ 8,994.51

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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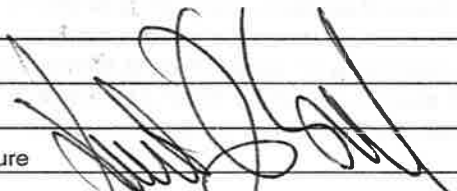
QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 7514

Date	Sec.	Twp.	Range	County	State	On Location	Finish
9-24-	7	15	15	Russell	KS		8:15
Lease <u>Witt</u>				Well No. <u>#1-7</u>		Owner	
Contractor <u>Val #6</u>				To Quality Oilwell Cementing, Inc.			
Type Job <u>Surface</u>				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 <u>12 1/4</u>		T.D. <u>777'</u>		Charge To <u>Samuel Gary Jr & Associates</u>			
Csg. <u>8 5/8</u>		Depth <u>777'</u>		Street			
Tbg. Size		Depth		City			
Tool		Depth		State			
Cement Left in Csg. <u>42.40</u>				Shoe Joint <u>42.40</u>		Cement Amount Ordered <u>3.50 3+2</u>	
Meas Line		Displace <u>46 3/4 bbl</u>		Common <u>350</u>			
EQUIPMENT Pumptrk <u>15</u> No. Cementer <u>Vick</u> Bulktrk <u>19</u> No. Driver <u>Lannie M</u> Bulktrk <u>P4</u> No. Driver <u>Brett</u>				Poz. Mix Gel. <u>7</u> Calcium <u>13</u> Hulls <u>0</u>			
JOB SERVICES & REMARKS Remarks: Rat Hole Mouse Hole Centralizers Baskets D/V or Port Collar				Salt Flowseal Kol-Seal Mud CLR 48 CFL-117 or CD110 CAF 38 Sand Handling <u>370</u> Mileage			
Cement Circulated!!				<u>8 5/8</u> FLOAT EQUIPMENT Guide Shoe Centralizer - <u>3</u> Baskets - <u>3</u> AFU Inserts Float Shoe Latch Down Rubber Plug			
Pumptrk Charge <u>Long Surface</u> Mileage <u>20</u>				Tax Discount Total Charge			
X Signature 							



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: 9/30/2013
 Invoice # 7388
 P.O.#:
 Due Date: 10/30/2013
 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

OCT 09 2013

SAMUEL GARY JR.
& ASSOCIATES, INC.

DP/LO COMP INVO LOB GG

Account	8200.145
Well/Prospect	
Dept	
Approval	<i>[Signature]</i>
Description	

Reference:
 WITT 2-7

Description of Work:
 PLUG JOB

Services / Items Included:	Quantity	Price	Taxable
Labor		\$ 1,020.55	Yes
Common-Class A	150	\$ 2,514.71	Yes
POZ Mix-Standard	100	\$ 704.12	Yes
Bulk Truck Matl-Material Service Charge	259	\$ 578.94	Yes
Pump Truck Mileage-Job to Nearest Camp	20	\$ 223.08	Yes
Premium Gel (Bentonite)	9	\$ 163.76	Yes
Flo Seal	62	\$ 138.59	Yes
Bulk Truck Mileage-Job to Nearest Bulk Plant	20	\$ 130.54	Yes
Dry Hole Plug	1	\$ 62.59	Yes

Item	Quantity	Price	Taxable
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Invoice Terms:

Net 30

	SubTotal:	\$	5,536.87
	Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:	\$	(830.53)
SubTotal for Taxable Items:		\$	4,706.34
SubTotal for Non-Taxable Items:		\$	-
Total:		\$	4,706.34
Tax:		\$	383.57
Amount Due:		\$	5,089.91
Applied Payments:			
Balance Due:		\$	5,089.91

8.15% Russell 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
Cell 785-324-1041

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

No. 7388

Date	9-30-13	Sec.	7	Twp.	15	Range	15	County	Russell	State	KS	On Location		Finish	2:30pm		
								Location									
								Gorham S Mitchell Rd 3/4 W Ninto									
Lease	WITT							Well No.	2-7								
Contractor	H&I #6							Owner									
Type Job	Retreat Plug							To Quality Oilwell Cementing, Inc.									
Hole Size	7 7/8							You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.									
Csg.								T.D.	3530								
Tbg. Size								Charge To									
Tool								Sam Leary Jr & Associates									
Cement Left in Csg.								Street									
Meas Line								Depth									
								City									
								State									
								The above was done to satisfaction and supervision of owner agent or contractor.									
								Cement Amount Ordered									
								250 60/40 4 1/2 1/2 1/2 1/2									
EQUIPMENT																	
Pumptrk	17	No.	Cementer		Craig		Common									150	
			Helper		Cody		Poz. Mix									100	
Bulktrk		No.	Driver		Cody		Gel.									9	
Bulktrk	1	No.	Driver		Doug		Calcium										
JOB SERVICES & REMARKS																	
Remarks:								Hulls									
Rat Hole 30 SK								Salt									
Mouse Hole 15 SK								Flowseal								62#	
Centralizers								Kol-Seal									
Baskets								Mud CLR 48									
D/V or Port Collar								CFL-117 or CD110 CAF 38									
1st 3412 50 SK								Sand									
2nd 990 55 SK								Handling								259	
3rd 450 90 SK								Mileage									
4th 40 10 SK								FLOAT EQUIPMENT									
								Guide Shoe									
								Centralizer									
								Baskets								8 5/8 wooden Plug	
								AFU Inserts									
								Float Shoe									
								Latch Down									
								Pumptrk Charge								plug	
								Mileage								20	
								Tax									
								Discount									
								Total Charge									
X Signature Randy O. Martin																	



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr. Associates, Inc.

7-15S-15W Russell Co

1515 Wynkoop ste. 700
Denver, Co 80202

Witt #1-7

Job Ticket: 54830

DST#: 1

ATTN: Dan Prichard

Test Start: 2013.09.28 @ 01:47:19

GENERAL INFORMATION:

Formation: **Lansing F & G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:14:19

Time Test Ended: 09:52:28

Test Type: Conventional Bottom Hole (Initial)

Tester: Tate Lang/ Tim Phill

Unit No: 49

Interval: 3216.00 ft (KB) To 3264.00 ft (KB) (TVD)

Reference Elevations: 1905.00 ft (KB)

Total Depth: 3264.00 ft (KB) (TVD)

1895.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8898 Outside

Press @ Run Depth: 42.88 psig @ 3229.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.09.28 End Date: 2013.09.28

Last Calib.: 2013.09.28

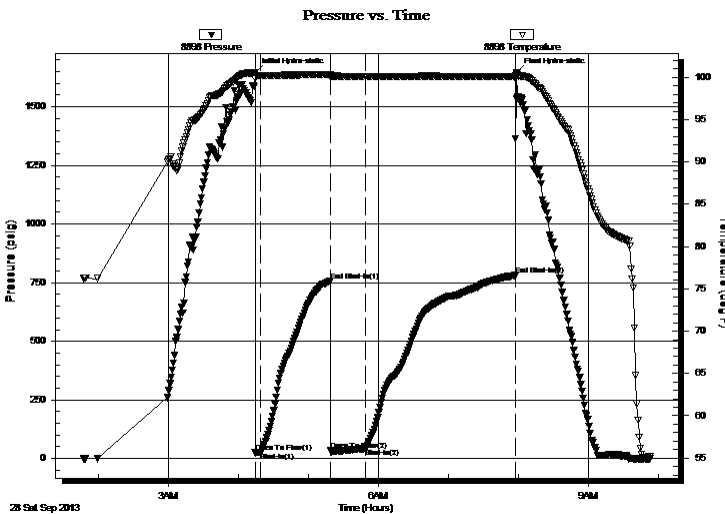
Start Time: 01:47:20 End Time: 09:52:29

Time On Btm: 2013.09.28 @ 04:14:09

Time Off Btm: 2013.09.28 @ 07:58:28

TEST COMMENT: IFP-Fair surface built to 6 1/2 in.
ISI- Dead no blow back
FF-BOB in 1 1/2 min.
FSI-Dead no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1644.83	100.58	Initial Hydro-static
1	24.69	99.88	Open To Flow (1)
5	26.66	100.21	Shut-In(1)
65	755.94	100.31	End Shut-In(1)
65	33.97	100.05	Open To Flow (2)
95	42.88	100.06	Shut-In(2)
223	780.89	100.05	End Shut-In(2)
225	1646.53	100.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	25%G,25%M,50%O	0.91
0.00	300 GIP	0.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. Associates, Inc.

7-15S-15W Russell Co

1515 Wynkoop ste. 700
Denver, Co 80202

Witt #1-7

Job Ticket: 54830

DST#: 1

ATTN: Dan Prichard

Test Start: 2013.09.28 @ 01:47:19

GENERAL INFORMATION:

Formation: **Lansing F & G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:14:19

Time Test Ended: 09:52:28

Test Type: Conventional Bottom Hole (Initial)

Tester: Tate Lang/ Tim Phill

Unit No: 49

Interval: 3216.00 ft (KB) To 3264.00 ft (KB) (TVD)

Reference Elevations: 1905.00 ft (KB)

Total Depth: 3264.00 ft (KB) (TVD)

1895.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8736

Press @RunDepth: psig @ 3180.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.09.28 End Date: 2013.09.28

Last Calib.: 2013.09.28

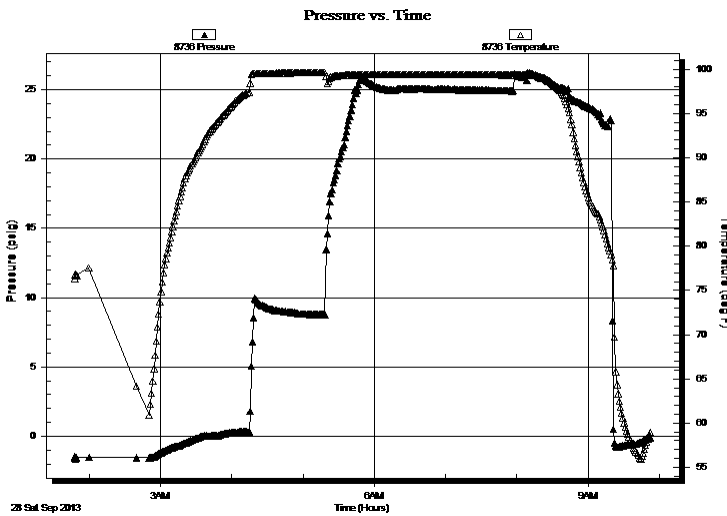
Start Time: 01:47:42 End Time: 09:53:06

Time On Btm:

Time Off Btm:

TEST COMMENT: IFP-Fair surface built to 6 1/2 in.
ISI- Dead no blow back
FF-BOB in 1 1/2 min.
FSI-Dead no blow back

PRESSURE SUMMARY



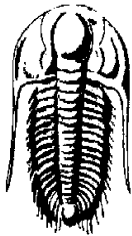
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
65.00	25%G,25%M,50%O	0.91
0.00	300 GIP	0.00

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. Associates, Inc.

7-15S-15W Russell Co

1515 Wynkoop ste. 700
Denver, Co 80202

Witt #1-7

Job Ticket: 54830

DST#: 1

ATTN: Dan Prichard

Test Start: 2013.09.28 @ 01:47:19

GENERAL INFORMATION:

Formation: **Lansing F & G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:14:19

Time Test Ended: 09:52:28

Test Type: Conventional Bottom Hole (Initial)

Tester: Tate Lang/ Tim Phill

Unit No: 49

Interval: 3216.00 ft (KB) To 3264.00 ft (KB) (TVD)

Reference Elevations: 1905.00 ft (KB)

Total Depth: 3264.00 ft (KB) (TVD)

1895.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8897

Inside

Press @ Run Depth: psig @ 3229.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.09.28

End Date:

2013.09.28

Last Calib.:

2013.09.28

Start Time: 01:47:44

End Time:

09:50:14

Time On Btm:

Time Off Btm:

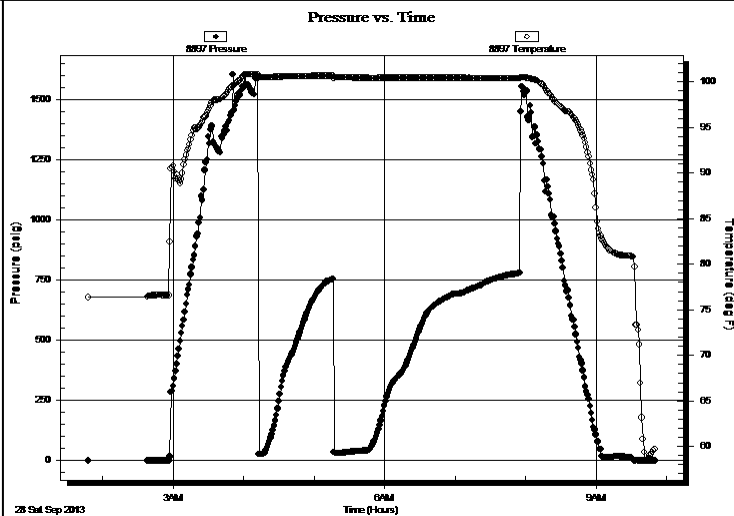
TEST COMMENT: IFP-Fair surface built to 6 1/2 in.

ISI- Dead no blow back

FF-BOB in 1 1/2 min.

FSI-Dead no blow back

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
65.00	25%G,25%M,50%O	0.91
0.00	300 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. Associates, Inc.

7-15S-15W Russell Co

1515 Wynkoop ste. 700
Denver, Co 80202

Witt #1-7

Job Ticket: 54830

DST#: 1

ATTN: Dan Prichard

Test Start: 2013.09.28 @ 01:47:19

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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
65.00	25%G,25%M,50%O	0.912
0.00	300 GIP	0.000

Total Length: 65.00 ft Total Volume: 0.912 bbl

Num Fluid Samples: 0

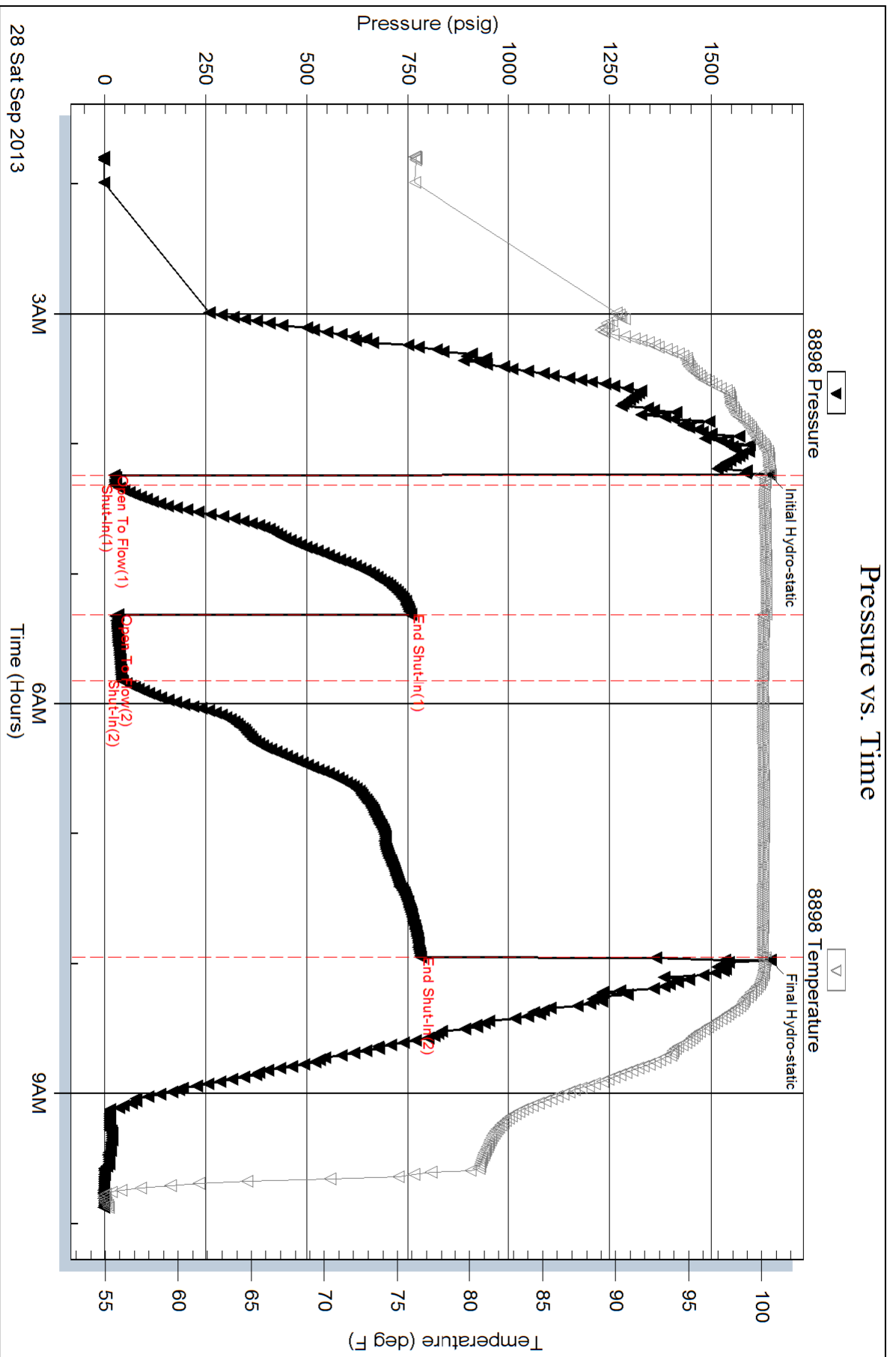
Num Gas Bombs: 0

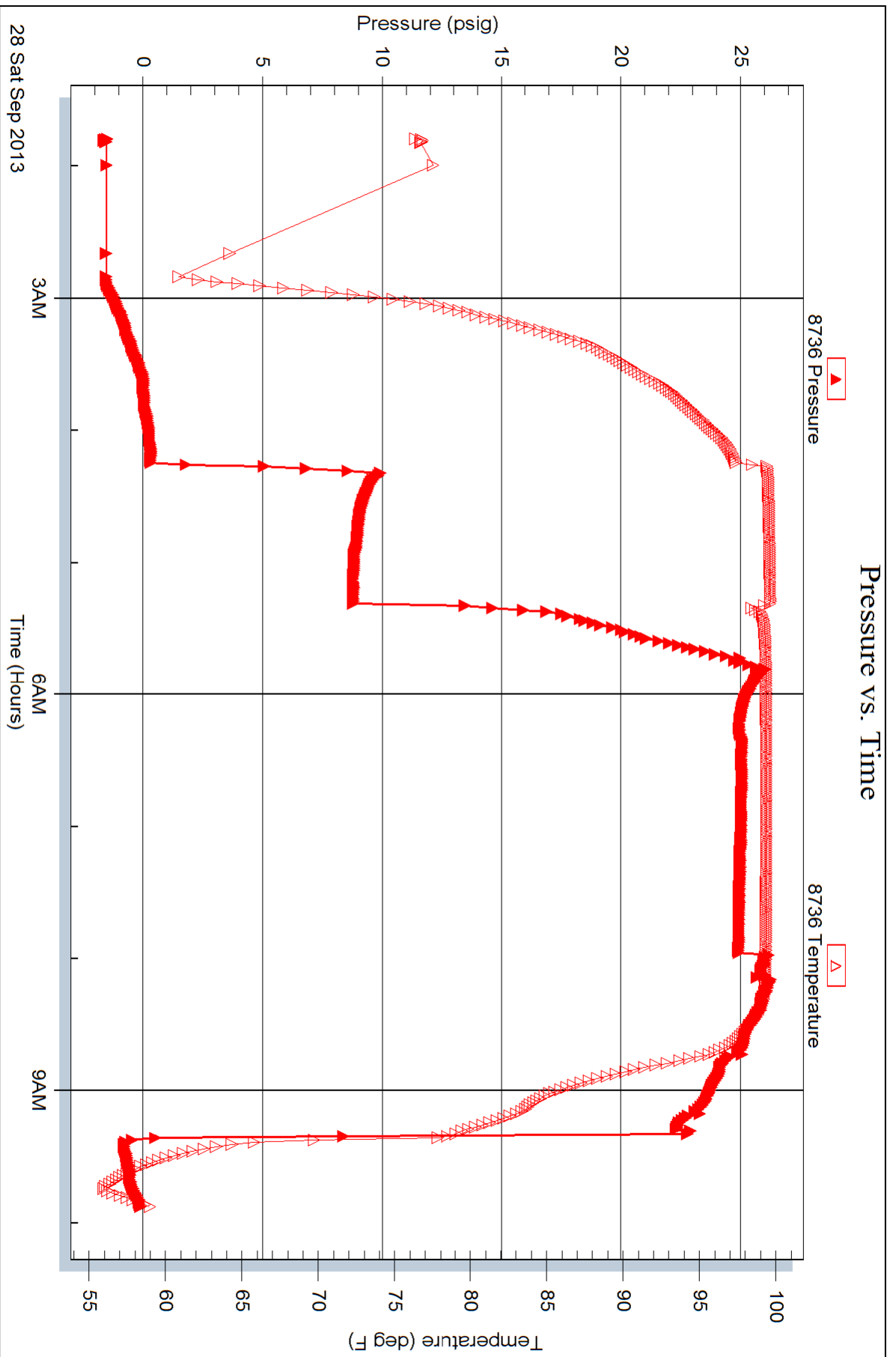
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





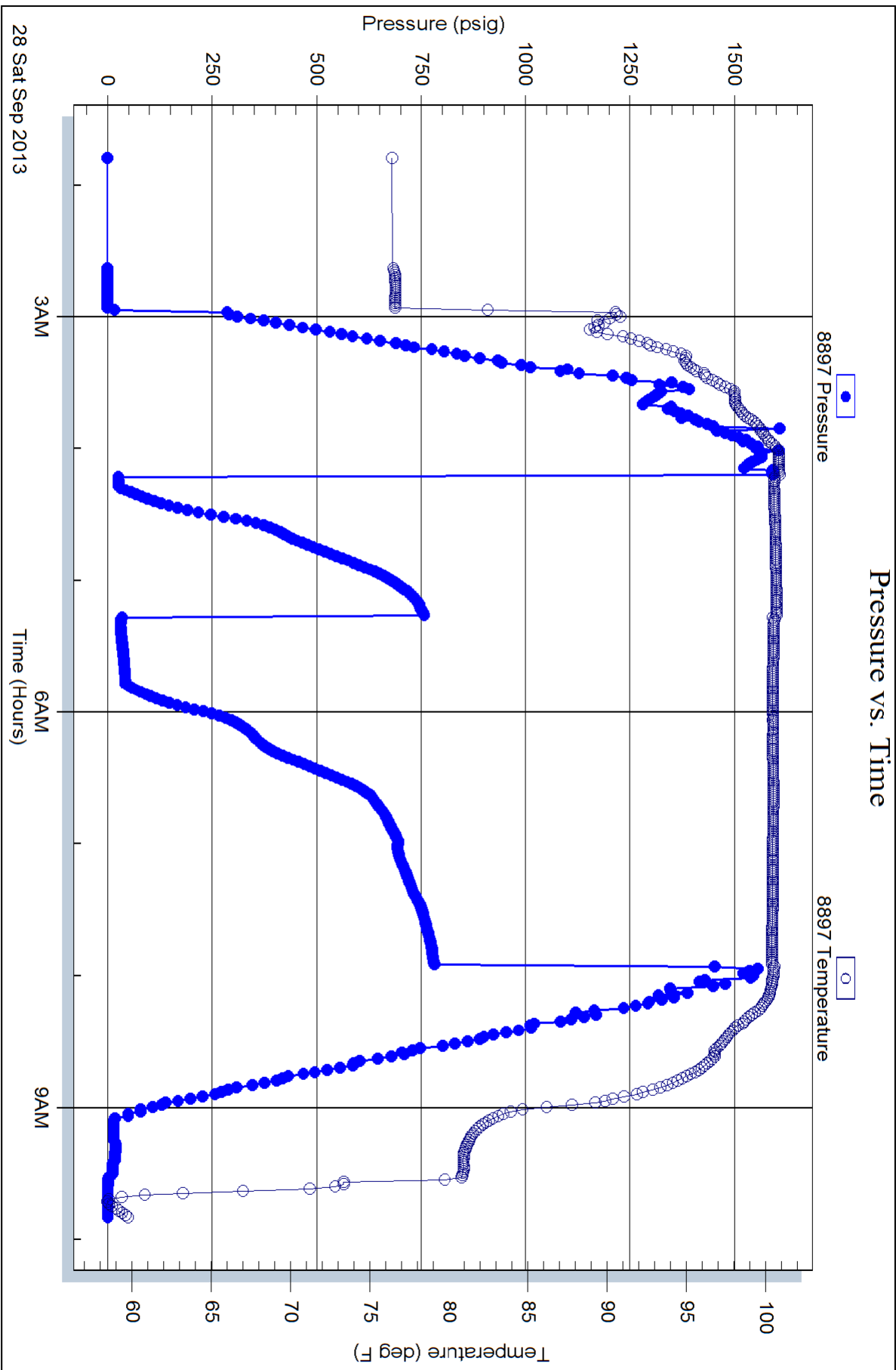
Serial #: 8897

Inside

Samuel Gary Jr. Associates, Inc.

Wt#1-7

DST Test Number: 1





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. Associates, Inc.

7-15S-15W Russell Co

1515 Wynkoop ste. 700
Denver, Co 80202

Witt #1-7

Job Ticket: 54831

DST#: 2

ATTN: Dan Prichard

Test Start: 2013.09.29 @ 00:18:56

GENERAL INFORMATION:

Formation: **Lansing I-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:33:16

Time Test Ended: 08:17:35

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang/ Tim Phill

Unit No: 49

Interval: 3316.00 ft (KB) To 3368.00 ft (KB) (TVD)

Reference Elevations: 1905.00 ft (KB)

Total Depth: 3368.00 ft (KB) (TVD)

1895.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8898 Outside

Press @ Run Depth: 38.08 psig @ 3333.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.09.29 End Date: 2013.09.29

Last Calib.: 2013.09.29

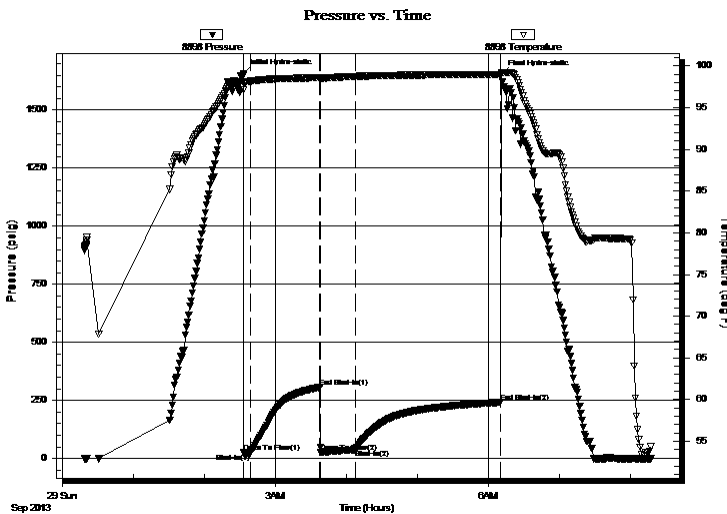
Start Time: 00:18:57 End Time: 08:17:36

Time On Btm: 2013.09.29 @ 02:33:06

Time Off Btm: 2013.09.29 @ 06:11:05

TEST COMMENT: Strong surface blow built to 9 in.
Dead no blow back
B.O.B. in 7 min
Dead no blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1655.52	98.14	Initial Hydro-static
1	25.53	97.09	Open To Flow (1)
6	22.60	98.18	Shut-In(1)
65	306.31	98.60	End Shut-In(1)
66	26.48	98.55	Open To Flow (2)
95	38.08	98.75	Shut-In(2)
217	241.82	98.98	End Shut-In(2)
218	1653.54	99.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	10%G 50%O 10%W 30%M	0.91
0.00	240 GIP	0.00

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. Associates, Inc.

7-15S-15W Russell Co

1515 Wynkoop ste. 700
Denver, Co 80202

Witt #1-7

Job Ticket: 54831

DST#: 2

ATTN: Dan Prichard

Test Start: 2013.09.29 @ 00:18:56

GENERAL INFORMATION:

Formation: **Lansing I-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:33:16

Time Test Ended: 08:17:35

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang/ Tim Phill

Unit No: 49

Interval: 3316.00 ft (KB) To 3368.00 ft (KB) (TVD)

Reference Elevations: 1905.00 ft (KB)

Total Depth: 3368.00 ft (KB) (TVD)

1895.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8736

Press @RunDepth: psig @ 3280.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.09.29

End Date: 2013.09.29

Last Calib.: 2013.09.29

Start Time: 00:18:51

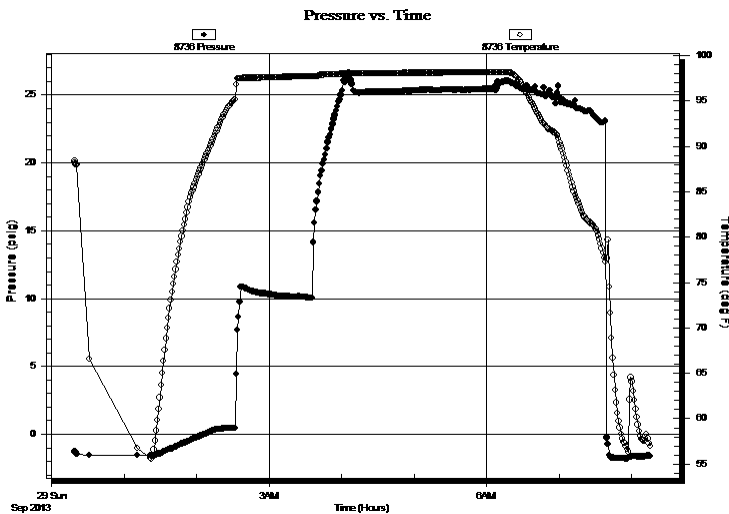
End Time: 08:16:00

Time On Btm:

Time Off Btm:

TEST COMMENT: Strong surface blow built to 9 in.
Dead no blow back
B.O.B. in 7 min
Dead no blow

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
65.00	10%G 50%O 10%W 30%M	0.91
0.00	240 GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. Associates, Inc.

7-15S-15W Russell Co

1515 Wynkoop ste. 700
Denver, Co 80202

Witt #1-7

Job Ticket: 54831

DST#: 2

ATTN: Dan Prichard

Test Start: 2013.09.29 @ 00:18:56

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: 9.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	10%G 50%O 10%W 30%M	0.912
0.00	240 GIP	0.000

Total Length: 65.00 ft Total Volume: 0.912 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

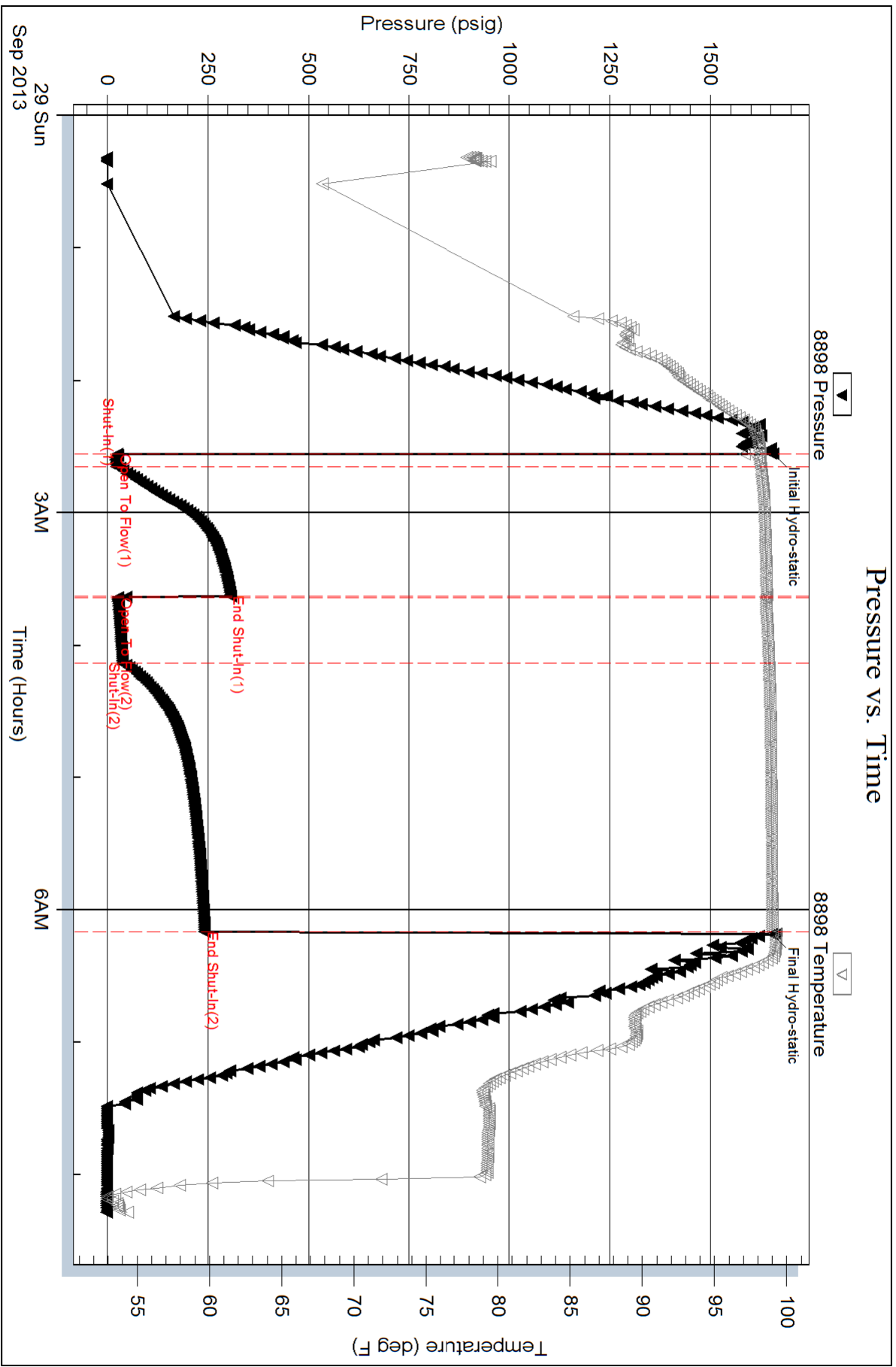
Serial #:

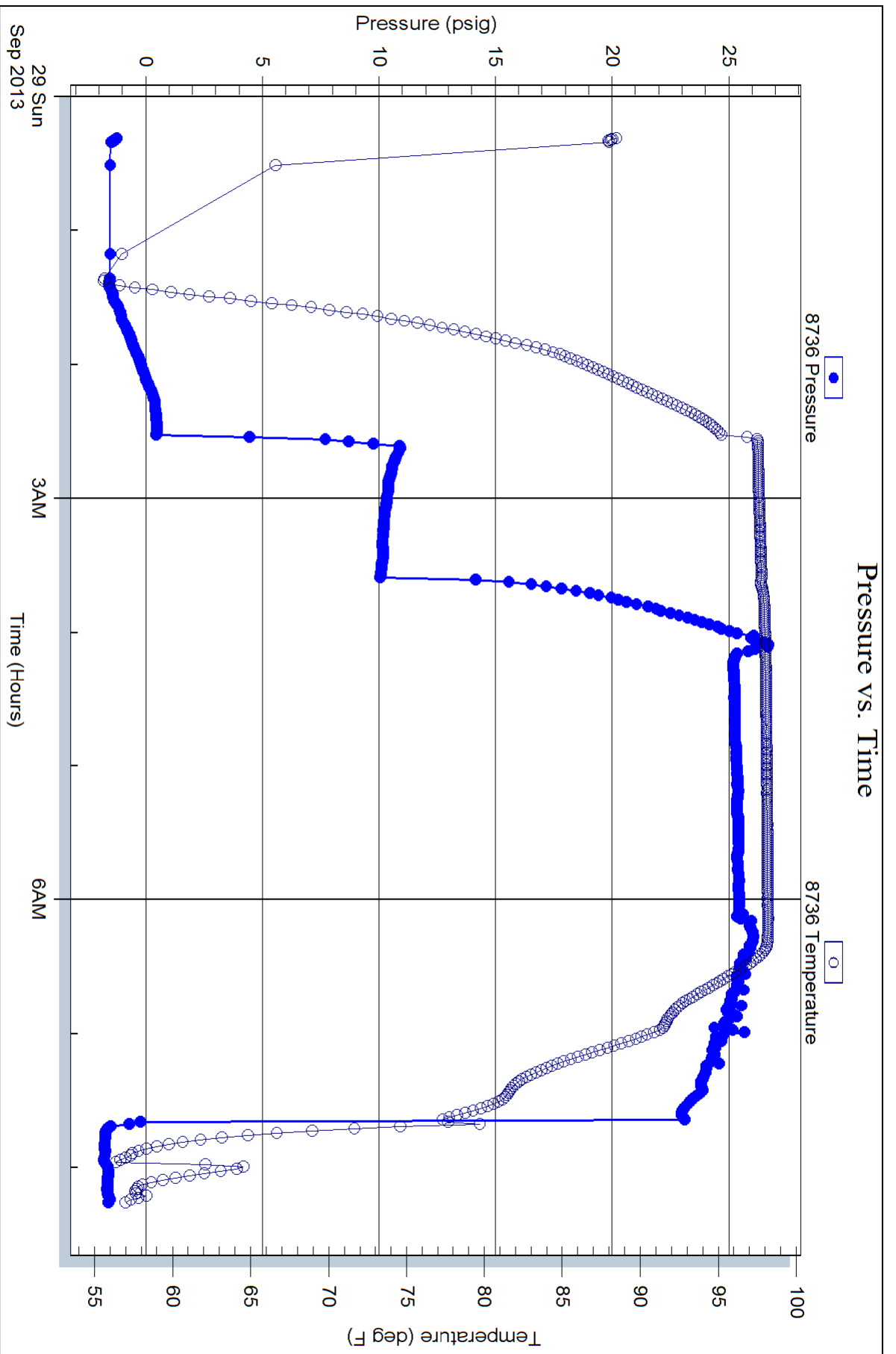
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







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

Well Name: Witt 1-7
 Location: Sec. 7-15S-15W Russell County, Kansas
 License Number: 15-167-23904-0000
 Spud Date: Sept 22, 2013
 Surface Coordinates: 850 FSL/ 2180 FWL
 Region: WILDCAT
 Drilling Completed: Sept 29, 2013

Bottom Hole Coordinates:
 Ground Elevation (ft): 1895' K.B. Elevation (ft): 1905'
 Logged Interval (ft): 2800' To: 3530' Total Depth (ft): 3530'
 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: Dan Pritchard

GEOLOGIST

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



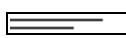

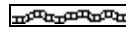



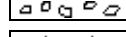


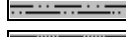
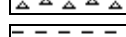

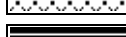

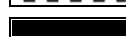


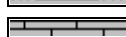

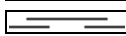
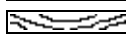


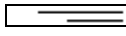




DST's Report

DST#1 3216'-3264' 5 60 30 120
 IF- FAIR SURFACE BLOW BUILT TO 6 1/2" ISI- NO BLOW/ FF- BOB IN 1 1/2 MIN/ FSI- NO BLOW
 IH- 1645, FH- 1646/ IF- 25 TO 34/ FF- 27 TO 43/ ISI- 756, FSI- 781
 RECOVERY- 65' GMCO 25% GAS, 50% OIL, 25% MUD/ 300' GIP
 SAMPLER- 2500 ML OIL

DST's Report

DST#2 3316'-3368' 5 60 30 120
 IF- STRONG SURFACE BLOW BUILT TO 9" ISI- NO BLOW/ FF- BOB IN 7 MIN/ FSI- NO BLOW
 IH- 1655, FH- 1653/ IF- 25 TO 26/ FF- 22 TO 38/ ISI- 306, FSI- 241
 RECOVERY- 65' CGMO 10% GAS, 50% OIL, 10% WATER, 30% MUD/ 240' GIP
 SAMPLER- 2000 ML OIL

ROCK TYPES

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

ACCESSORIES

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecfrag
- 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
- Silty

FOSSIL

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

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

STRINGER

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

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

TEXTURE

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

OTHER SYMBOLS

POROSITY TYPE

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

SORTING

- Well
- Moderate
- Poor

ROUNDING

- Rounded
- Subrnd
- Subang

- Angular

OIL SHOWS

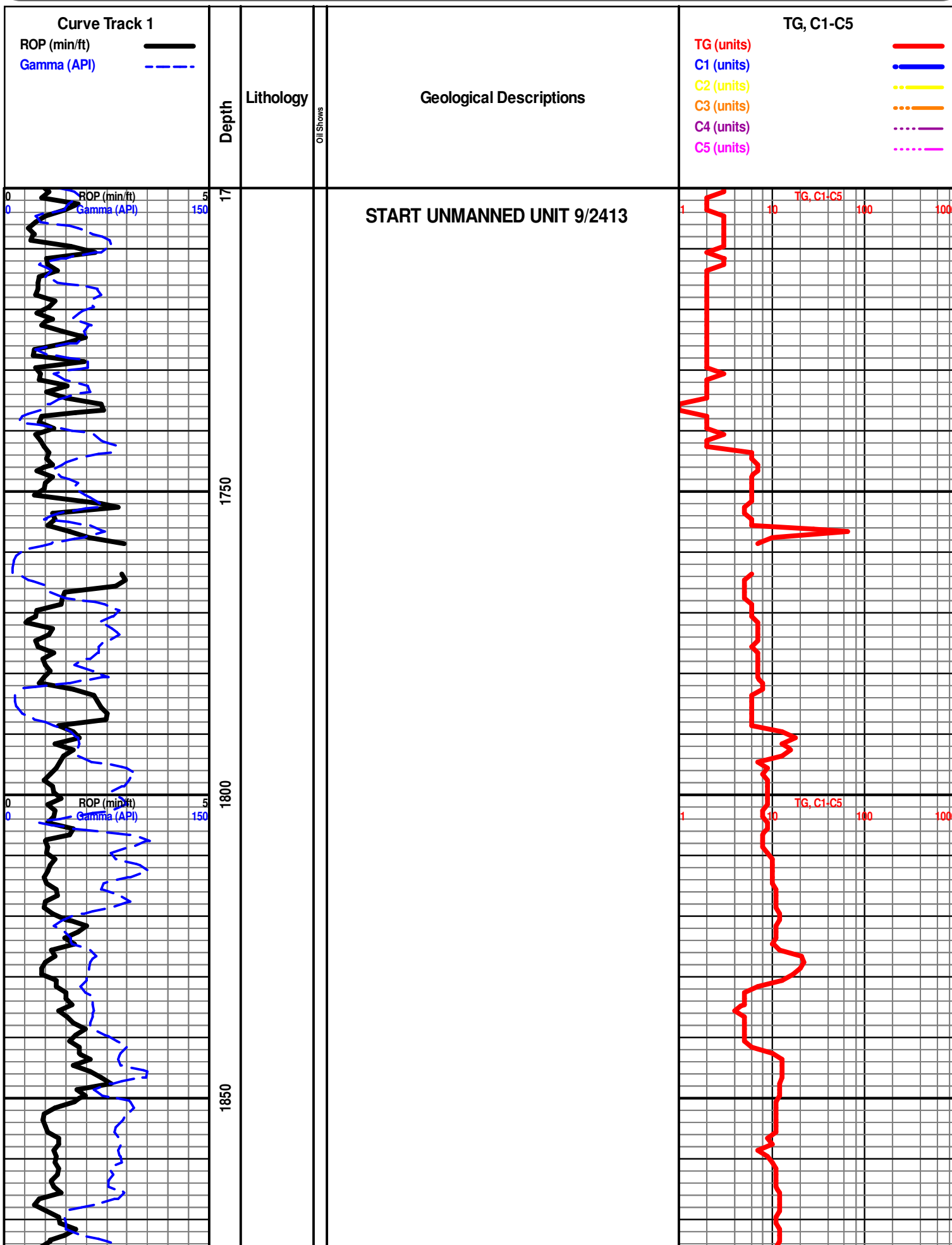
- Even
- Spotted
- Ques
- Dead
- Gas show

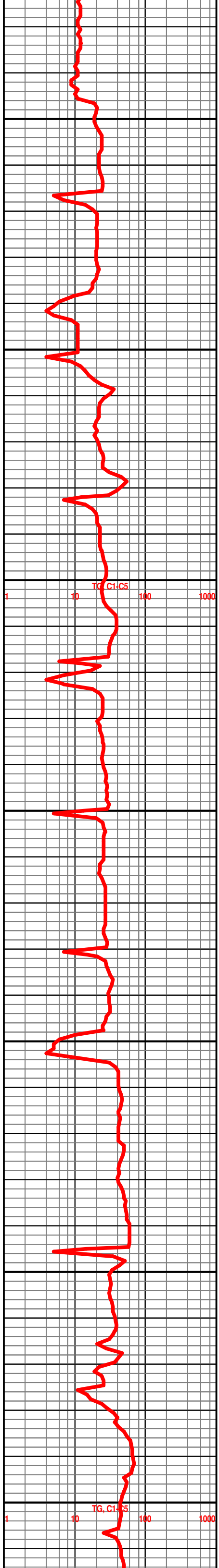
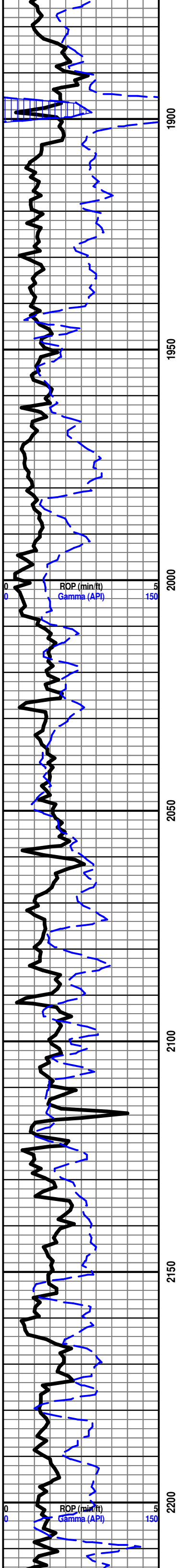
INTERVALS

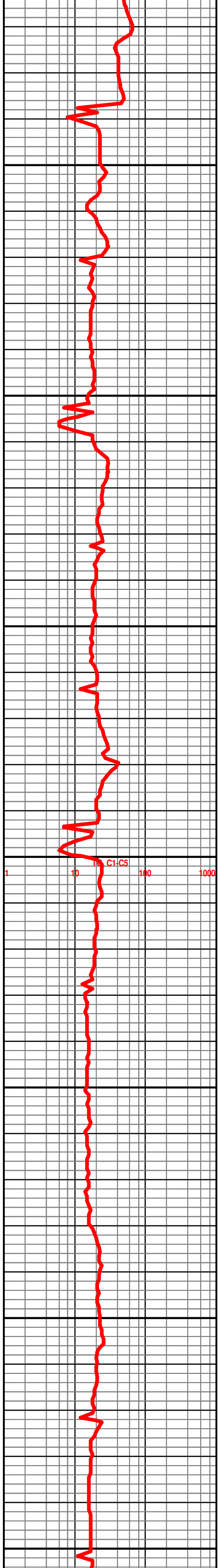
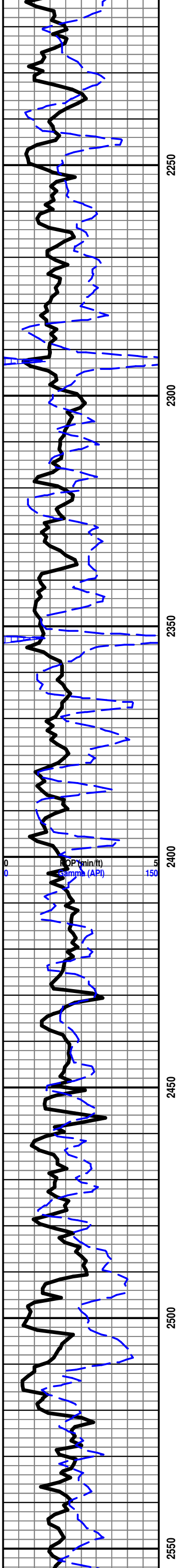
- Core
- Dst
- Dst

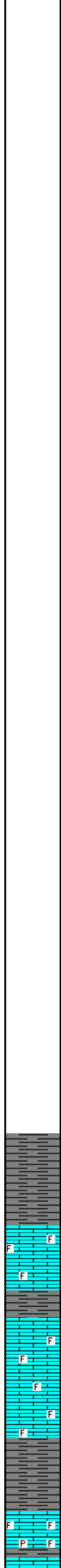
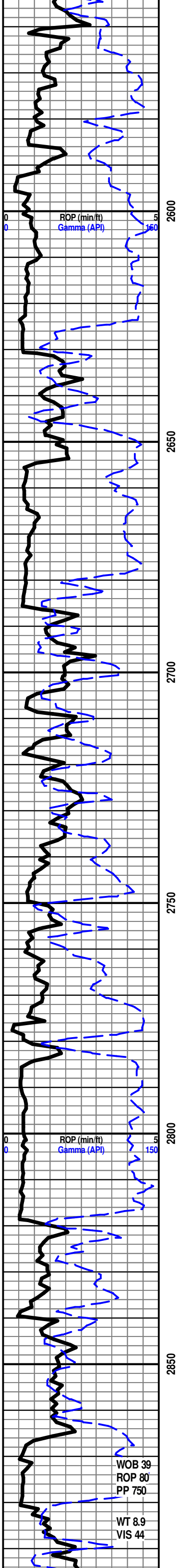
EVENTS

- Rft
- Sidewall









BRS 2631' -726'

START 24 HOUR MANNED UNIT 9/26/13

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

HOWARD 2820' -915'

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

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

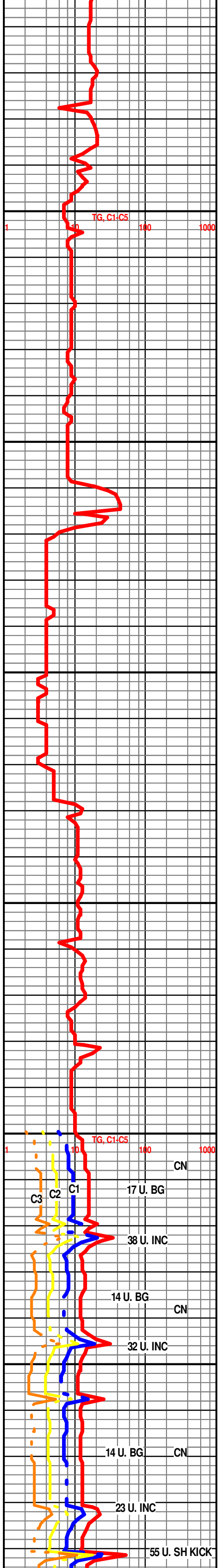
LS- TN TO DK TN, V/HD DNS, V/F TO F XLN RE-XLN MTRX, IMBD FOSS FRG THRU, NO VIS FLO, NO VIS POR, NO VIS SHOW

SEVERY 2866' -961

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

TOPEKA 2881' -976'

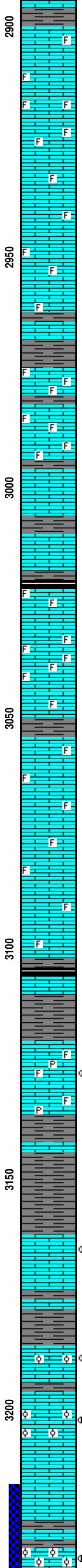
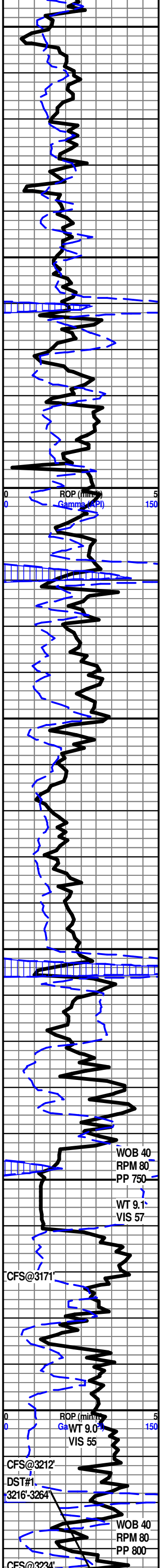
LS- LT TN TO TN, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, IMBD FOSS FRG IP, IMBD CALC XLS IP, SLI TR PYR IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW



WOB 39
ROP 80
PP 750

WT 8.9
VIS 44

TG, C1-C5
100 1000
CN
17 U. BG
38 U. INC
14 U. BG CN
32 U. INC
14 U. BG CN
23 U. INC
55 U. SH KICK



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

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

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

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

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

LE COMPTON 3073' -1192'

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

LS- CRM TO LT TN, HD DNS TO BRIT, V/F TO F XLN SUCRO MTRX, S-CHLKY IP, IMBD FOSS FRG THRU, SCAT IMBD CALC XLS IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- CRM TO LT TN, HD DNS TO BRIT, V/F TO F XLN SUCRO MTRX, S-CHLKY IP, IMBD FOSS FRG THRU, SCAT IMBD CALC XLS IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

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

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

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

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

LS- OFF WHT TO CRM, HD DNS TO BRIT, V/F TO F XLN CHLKY MTRX, S-SUCRO, IMBD FOSS FRG THRU, SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- OFF WHT TO CRM, HD DNS TO BRIT, V/F TO F XLN CHLKY MTRX, S-SUCRO, IMBD FOSS FRG THRU, SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

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

HEEBNER 3103' -1198'

SH- BLCK, SFT, CARB

SH- GRN TO GY, FRM BLKY TO SFT GMMY, SMTH TXT

3126'-3128' LS- CRM TO LT TN W/ TN OIL STN IN 65%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, TR SCAT IMBD FOSS FRG IP, SLI TR IMBD DISS PYR IP, BRT YEL GLD FLO IN 65%, TT TO PR PP POR IN 4%, GD FLSH CUT IN 70%, GD SLW STRM IN 70%, TN LCH ON DISH

DOUGLAS 3136' -1231'

SH- GRN BRWN TO GY, FRM BLKY TO SFT GMMY, SMTH TO SLTY TXT

LANSING 3161' -1256'

3165'-3166' LS- CRM TO LT TN W/ TN OIL STN IN 50%, HD DNS TO V/ BRIT IP, V/F TO F XLN SUCRO MTRX, S-CHLKY IP, DUL YEL GLD FLO IN 50%, PR PP POR IN 2%, PR TO FR VUG POR IN 3%, GD FLSH CUT, FR TO GD SLW STRM IN 60%, TN LCH ON DISH

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

LANSING "C" 3186' 1281'

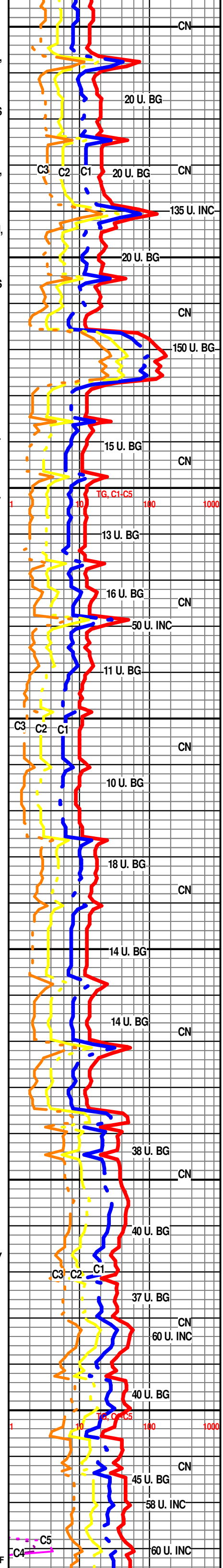
3188'-3189' LS- CRM TO LT TN W/ TN OIL STN IN 30%, HD DNS TO BRIT, V/F TO F XLN SUCRO MTRX, SCAT IMBD OOL IP, DUL YEL GLD FLO IN 30%, PR INTR OOL POR IN 2%, PR TO FR VUG POR IN 2%, GD FLSH CUT IN 35%, GD SLW STRM IN 35%, LT TN LCH ON DISH

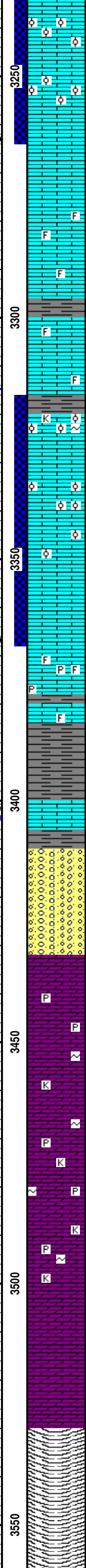
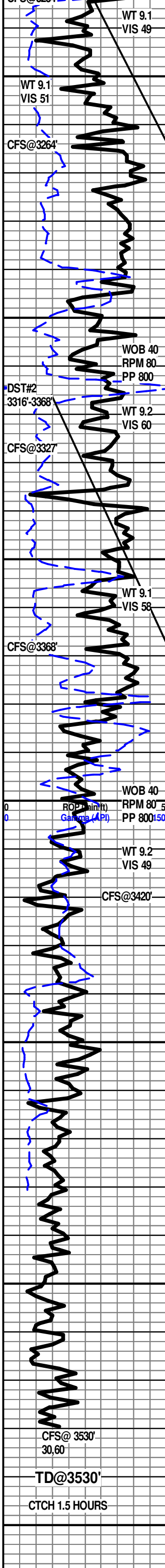
3202'-3204' LS- CRM TO LT TN W/ TN OIL STN IN 40%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, IMBD OOL THRU, DUL YEL GLD FLO IN 40%, PR INTR OOL POR IN 2%, TT TO PR PP POR IN 3%, GD FLSH CUT IN 40%, GD SLW STRM IN 40%, TN LCH ON DISH

LS- GY OFF WHT CRM TO LT TN MOTT IP, HD DNS TO BRIT, V/F TO F XLN SUCRO MTRX, S-CHLKY, SCAT IMBD CALC XLS IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LANSING "F" 3231' -1326'

3231'-3233' LS- CRM TO LT TN W/ TN OIL STN IN 75%, HD DNS TO BRIT, V/F





TO F XLN SUCRO MTRX, S-CHLKY IP, ABDT IMBD OOL THRU, TR SFT WHT CHLK IN TRAY, DUL YEL GLD FLO IN 40%, BRT YEL GLD FLO IN 35%, PR INTR OOL POR IN 4%, PR VUG POR IN 2%, GD FLSH CUT IN 75%, GD SLW STRM IN 75%, DK TN LCH ON DISH, WK OIL ODOR

3238'-3239' LS- CRM TO LT TN W/ TN OIL STN IN 70%, HD DNS TO BRIT, V/F TO F XLN SUCRO MTRX, IMBD OOL THRU, DUL YEL GLD FLO IN 70%, PR TO FR INTR OOL POR IN 4%, WK FLSH CUT IN 70%, FR SLW STRM IN 30%, LT TN LCH ON DISH

3252'-3253' LS- CRM TO LT TN W/ TN OIL STN IN 80%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, ABDT IMBD OOL THRU, SLI TR PYR IN TRAY, DUL YEL GLD FLO IN 80%, FR TO GD INTR OOL POR IN 4%, FR VUG POR IN 2%, GD FLSH CUT IN 80%, FR TO GD SLW STRM IN 80%, TN LCH ON DISH, WK OIL ODOR

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

LANSING "H" 3299' -1394'

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

3321'-3323' LS- OFF WHT TO CRM W/ TN OIL STN IN 50%, HD DNS TO BRIT, V/F TO F XLN SUCRO MTRX, S-CHLKY IP, IMBD OOL IP, SLI TR IMBD KAOL OR GLAUC, DUL YEL GLD FLO IN 50%, PR PP POR IN 2%, PR TO FR VUG POR IN 2%, WK FLSH CUT IN 40%, FR TO GD SLW STRM IN 50%, LT TN LCH ON DISH

3336'-3338' LS- CRM TO LT TN W/ TN OIL STN IN 80%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, RE-XLN IP, ABD IMBD OOL THRU, DUL YEL GLD FLO IN 80%, PR TO FR INTR OOL POR IN 3%, PR TO FR VUG POR IN 1%, WK FLSH CUT IN 80%, PR TO FR SLW STRM IN 80%, LT TN LCH ON DISH, FR SULFUR ODOR

LS- CRM TO LT TN, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, RE-XLN IP, SCAT IMBD CALC XLS IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- LT GY CRM TO LT TN, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, S-CHLKY IP, SCAT IMBD FOSS FRG IP, TR DISS PYR IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

BKC 3384' -1479'

SH- BRWN RED GY TO DK GY, FRM BLKY TO SFT GMMY, SMTH TXT

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

CONG- LS- LT TN TO TN, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, RE-XLN IP, TR IMBD OOL IP, TR IMBD CALC XLS IP, SH- BRWN TO GY, FRM BLKY TO SFT GMMY, SMTH TXT, CHRT- TN YEL TO ORNG

ARBUCKLE 3432' -1527'

3434'-3438' DOLO- CRM TO LT TN W/ TN OIL STN IN 30%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, ABDT IMBD V/F TO SM S-ANG TO S-RND DOLO GRNS THRU, DUL YEL GLD FLO IN 30%, TT TO PR INTR GRN POR IN 5%, WK FLSH CUT IN 30%, PR SLW STRM IN 25%, NO LCH ON DISH

3443'-3444' DOLO- CRM TO LT TN W/ TN OIL STN IN 15%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, ABDT IMBD V/F TO SM S-ANG TO S-RND DOLO GRNS THRU, TR IMBD DISS PYR IP, DUL YEL GLD FLO IN 20%, TT TO PR INTR GRN POR IN 5%, FR FLSH CUT IN 20%, FR TO GD SLW STRM IN 20%, NO LCH ON DISH

3454'-3455' DOLO- CRM TO LT TN W/ TN OIL STN IN 10%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, ABDT IMBD V/F TO SM S-ANG TO S-RND DOLO GRNS THRU, TR IMBD KAOL OR GLAUC IP, DUL YEL GLD FLO IN 15%, TT TO PR INTR GRN POR IN 5%, FR FLSH CUT IN 15%, FR SLW STRM IN 15%, NO LCH ON DISH

DOLO- OFF WHT TO CRM, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, ABDT IMBD SM TO MD S-ANG TO S-RND DOLO GRNS THRU, SLI TR IMBD KAOL OR GLAUC, NO VIS FLO, PR TO FR INTR GRN POR IN 10%, NO VIS SHOW

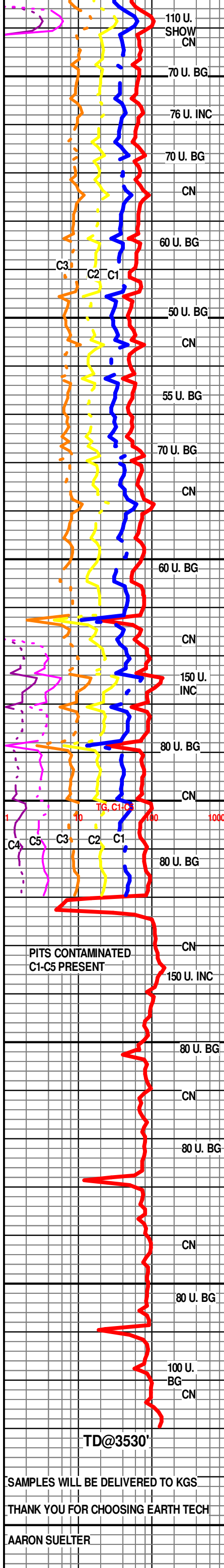
DOLO- OFF WHT TO CRM, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, ABDT IMBD SM TO MD S-ANG TO S-RND DOLO GRNS THRU, SLI TR IMBD KAOL OR GLAUC, SLI TR IMBD DISS PYR IP, NO VIS FLO, PR TO FR INTR GRN POR IN 10%, NO VIS SHOW

R.T.D. @ 7:15PM 9/29/13

DROP SURVEY

TOFL

WEATHERFORD/ LIBERAL



SAMPLES WILL BE DELIVERED TO KGS

THANK YOU FOR CHOOSING EARTH TECH

AARON SUELTER