



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1216394
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
-----------------------------------	-----------------	---

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: _____

1216394

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: _____ _____
--	---	---

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	BALES 1-26
Doc ID	1216394

All Electric Logs Run

DEN-NEUT
INDUCTION
MICRO
SONIC
SPECTRAL



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: 4/8/2014
 Invoice # 407

P.O.#:

Due Date: 5/8/2014

Division: Russell

Invoice

Contact:
 Samuel Gary Jr & Associates Inc
Address/Job Location:
 Samuel Gary Jr & Associates Inc
 1935 LOUIE ROAD
 HAYS KANSAS 67601

D/PLG COMP W/O LOE GG

Account	8200.145
Well/Prospect	
Deck	
AFE	
Approval	See work ticket
Description	

Reference:
 BALES 1-26

RECEIVED

APR 15 2014

Description of Work:
 LONG SURFACE

SAMUEL GARY JR.
 & ASSOCIATES, INC.

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 1,020.55	No				
Common-Class A	250	\$ 4,191.18	Yes				
Calcium Chloride	9	\$ 559.87	Yes				
Bulk Truck Matl-Material Service Charge	264	\$ 590.12	No				
Pump Truck Mileage-Job to Nearest Camp	51	\$ 568.86	No				
8 5/8" Basket	1	\$ 353.18	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	51	\$ 332.88	No				
8 5/8" Top Rubber Plug	1	\$ 118.47	Yes				
Baffle Plate Aluminum, 8 5/8"	1	\$ 100.59	Yes				
Premium Gel (Bentonite)	5	\$ 90.98	Yes				
8 5/8" Centralizer	1	\$ 71.53	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 7,998.20
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,199.73)

SubTotal for Taxable Items:	\$ 4,662.92
SubTotal for Non-Taxable Items:	\$ 2,135.54
Total:	\$ 6,798.47
Tax:	\$ 321.74

6.90% Norton County Sales Tax

Thank You For Your Business!

Amount Due: \$ 7,120.21
Applied Payments:
Balance Due: \$ 7,120.21

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. 407

Date	4-8-14	Sec.	26	Twp.	4	Range	23	County	Norton	State	KS	On Location	6:30 PM	Finish	8:30 PM
------	--------	------	----	------	---	-------	----	--------	--------	-------	----	-------------	---------	--------	---------

Lease Bales Well No. 1-26 Location hwy 9 + Norton UN E into Owner _____

Contractor WNU 12 To Quality Oilwell Cementing, Inc.
Type Job Surface You are hereby requested to rent cementing equipment and furnish
Hole Size 12 1/4 T.D. 559 cementer and helper to assist owner or contractor to do work as listed.

Csg. 8 5/8 Depth _____ Char To Sam Gary Jr. & Associates
Tbg. Size _____ Depth _____ Street _____
Tool _____ Depth _____ City _____ State _____

Cement Left in Csg. 42.29 Shoe Joint 42.29 Cement Amount Ordered 250 3/4 CC

Meas Line _____ Displace 33131L 2% gel
Common 250

EQUIPMENT

Pumptrk	17	No.	Cementor	<u>Matt</u>	Poz. Mix
			Helper		
Bulktrk	19	No.	Driver	<u>Nick</u>	Gel. <u>5</u>
			Driver		
Bulktrk	pu	No.	Driver	<u>Chad</u>	Calcium <u>9</u>
			Driver		

JOB SERVICES & REMARKS

Remarks: _____ Hulls _____
Rat Hole _____ Salt _____
Mouse Hole _____ Flowseal _____
Centralizers #1 _____ Kol-Seal _____
Baskets #2 _____ Mud CLR 48 _____
D/V or Port Collar _____ CFL-117 or CD110 CAF 38 _____
Sand _____

Cement did _____ Handling 264
Circulate _____ Mileage 8 3/8

FLOAT EQUIPMENT

Guide Shoe _____
Centralizer 1 _____
Baskets 1 _____
AFU Inserts _____
Float Shoe _____
Latch Down _____
Pubberh plug
Be-Plk plate
Pumptrk Charge Long Surface
Mileage 51

Signature [Signature] Tax _____
Discount _____
Total Charge _____



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

Date: 4/16/2014
 Invoice # 18
 P.O.#:
 Due Date: 5/16/2014
 Division: Russell

5/8

Invoice

V1405-AP-17

Contact:
 Samuel Gary Jr & Associates Inc
Address/Job Location:
 Samuel Gary Jr & Associates Inc
 1935 LOUIE ROAD
 HAYS KANSAS 67601

Reference:
 BALES 1-26

Description of Work:
 PLUG JOB

DRLG COMP W/O LOE GG

Account	8200.145
Well/Prospect	
Deck	
AFE	
Approval	JLP [Signature]
Description	

Services / Items Included:	Quantity	Price	Taxable
Labor		\$ 1,020.55	Yes
Common-Class A	153	\$ 2,565.00	Yes
POZ Mix-Standard	102	\$ 718.20	Yes
Bulk Truck Matl-Material Service Charge	264	\$ 590.12	Yes
Pump Truck Mileage-Job to Nearest Camp	51	\$ 568.86	Yes
Bulk Truck Mileage-Job to Nearest Bulk Plant	51	\$ 332.88	Yes
Premium Gel (Bentonite)	9	\$ 163.76	Yes
Flo Seal	56	\$ 125.18	Yes
Dry Hole Plug	1	\$ 62.59	Yes

Item	Quantity	Price	Taxable
RECEIVED APR 24 2014 SAMUEL GARY JR. & ASSOCIATES, INC.			

Invoice Terms:

Net 30

SubTotal: \$ 6,147.13
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (922.07)

SubTotal for Taxable Items:	\$ 5,225.06
SubTotal for Non-Taxable Items:	\$ -
Total:	\$ 5,225.06
Tax:	\$ 360.53
Amount Due:	\$ 5,585.59
Applied Payments:	
Balance Due:	\$ 5,585.59

6.90% Norton 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. 018

Date	4-16-14	Sec.	26	Twp.	4	Range	23	County	Norton	State	KS	On Location		Finish	2:30 AM
------	---------	------	----	------	---	-------	----	--------	--------	-------	----	-------------	--	--------	---------

Location *HWY 94283 2W 40 NE S10*

Lease	<i>Bales</i>	Well No.	<i>26</i>	Owner	To Quality Oilwell Cementing, Inc.
-------	--------------	----------	-----------	-------	------------------------------------

Contractor	<i>WW #12</i>	You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
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Type Job	<i>Rotary Plug</i>	Charge To	<i>Sam Cecil Tr. Associates</i>
----------	--------------------	-----------	---------------------------------

Hole Size	<i>7 7/8</i>	T.D.	<i>3878</i>	Street	
-----------	--------------	------	-------------	--------	--

Csg.	<i>4 1/2 x 11</i>	Depth	<i>3729</i>	City		State	
------	-------------------	-------	-------------	------	--	-------	--

Tbg. Size		Depth		The above was done to satisfaction and supervision of owner agent or contractor.		
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Tool		Depth		Cement Amount Ordered	<i>255 60/40 4-1-65 2 1/4 #10</i>
------	--	-------	--	-----------------------	-----------------------------------

Cement Left in Csg.		Shoe Joint			
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Meas Line		Displace		Common	<i>153</i>
-----------	--	----------	--	--------	------------

EQUIPMENT

Pumptrk	<i>16</i>	No.		Cementer	<i>Coalg</i>	Poz. Mix	<i>102</i>
---------	-----------	-----	--	----------	--------------	----------	------------

Bulktrk		No.		Helper	<i>Billy</i>	Gel.	<i>9</i>
---------	--	-----	--	--------	--------------	------	----------

Bulktrk	<i>9</i>	No.		Driver	<i>Doug</i>	Calcium	
---------	----------	-----	--	--------	-------------	---------	--

JOB SERVICES & REMARKS

Remarks:		Hulls	
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Rat Hole	<i>305K</i>	Salt	
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Mouse Hole		Flowseal	<i>56 #</i>
------------	--	----------	-------------

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

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

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

<i>1st</i>	<i>3729</i>	<i>505K</i>	Sand	
------------	-------------	-------------	------	--

<i>2nd</i>	<i>2000</i>	<i>255K</i>	Handling	<i>264</i>
------------	-------------	-------------	----------	------------

<i>3rd</i>	<i>1250</i>	<i>1005K</i>	Mileage	
------------	-------------	--------------	---------	--

<i>4th</i>	<i>610</i>	<i>405K</i>	FLOAT EQUIPMENT	
------------	------------	-------------	------------------------	--

<i>5th</i>	<i>40</i>	<i>105K</i>	Guide Shoe	
------------	-----------	-------------	------------	--

			Centralizer	
--	--	--	-------------	--

			Baskets	
--	--	--	---------	--

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

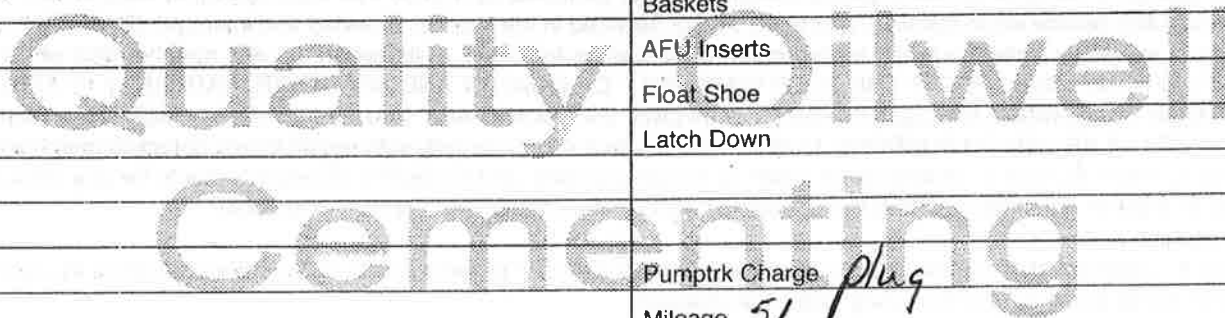
			Float Shoe	
--	--	--	------------	--

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

Pumptrk Charge *plug*
Mileage *51*

		Tax	
		Discount	
		Total Charge	

X Signature *[Signature]*





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

26-4S-23W Norton, Ks

1515 Wynkoop
Ste. 700
Denver, CO 80202
ATTN: Clayton Camozzi

Bales #1-26

Job Ticket: 58755 **DST#: 1**

Test Start: 2014.04.12 @ 01:31:39

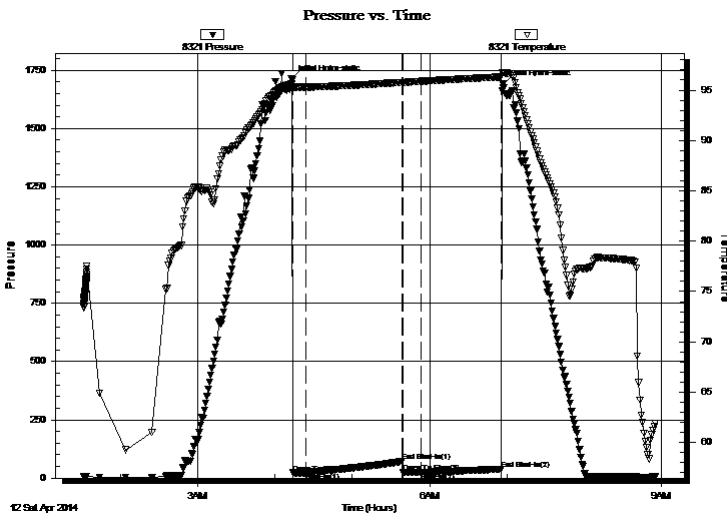
GENERAL INFORMATION:

Formation: **Toronto**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:14:09
 Time Test Ended: 08:55:39
 Interval: **3497.00 ft (KB) To 3526.00 ft (KB) (TVD)**
 Total Depth: 3526.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Brannan L
 Unit No: 48
 Reference Elevations: 2416.00 ft (KB)
 2408.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8321 Outside
 Press@RunDepth: 24.86 psig @ 3498.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.04.12 End Date: 2014.04.12 Last Calib.: 2014.04.12
 Start Time: 01:31:40 End Time: 08:55:39 Time On Btm: 2014.04.12 @ 04:12:39
 Time Off Btm: 2014.04.12 @ 06:56:39

TEST COMMENT: 10- IF- Weak surface blow
 75- IS- No blow
 15- FF- No blow
 60- FSI- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1712.27	95.57	Initial Hydro-static
2	22.33	95.19	Open To Flow (1)
12	23.54	95.30	Shut-In(1)
86	70.86	95.77	End Shut-In(1)
87	24.83	95.76	Open To Flow (2)
101	24.86	95.87	Shut-In(2)
163	38.61	96.31	End Shut-In(2)
164	1690.34	96.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	M w / oil spots	0.00

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

26-4S-23W Norton, Ks

1515 Wynkoop
Ste. 700
Denver, CO 80202
ATTN: Clayton Camozzi

Bales #1-26

Job Ticket: 58755

DST#: 1

Test Start: 2014.04.12 @ 01:31:39

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:14:09

Time Test Ended: 08:55:39

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan L

Unit No: 48

Interval: **3497.00 ft (KB) To 3526.00 ft (KB) (TVD)**

Reference Elevations: 2416.00 ft (KB)

Total Depth: 3526.00 ft (KB) (TVD)

2408.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: **8647**

Fluid

Press@RunDepth: psig @ 3469.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.12

End Date:

2014.04.12

Last Calib.:

2014.04.12

Start Time: 01:32:19

End Time:

08:54:48

Time On Btm:

Time Off Btm:

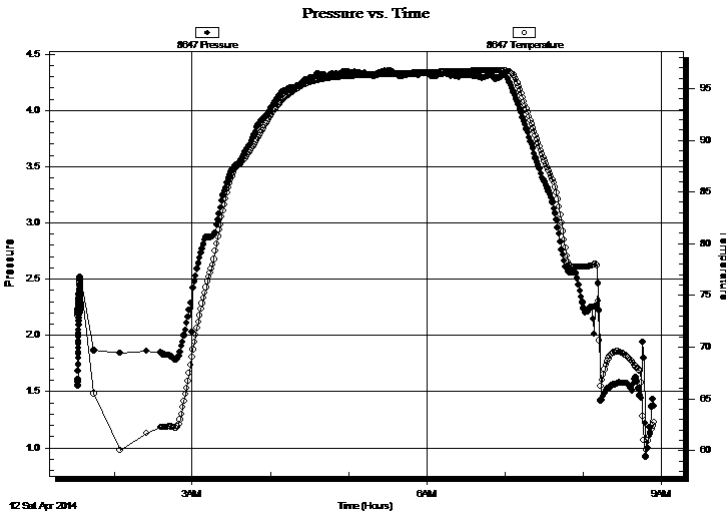
TEST COMMENT: 10- IF- Weak surface blow

75- IS- No blow

15- FF- No blow

60- FS- No blow

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
1.00	M w / oil spots	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.

26-4S-23W Norton, Ks

1515 Wynkoop
Ste. 700
Denver, CO 80202
ATTN: Clayton Camozzi

Bales #1-26

Job Ticket: 58755

DST#: 1

Test Start: 2014.04.12 @ 01:31:39

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 53.00 sec/qt

Water Loss: 7.99 in³

Resistivity: ohm.m

Salinity: 1000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	M w / oil spots	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

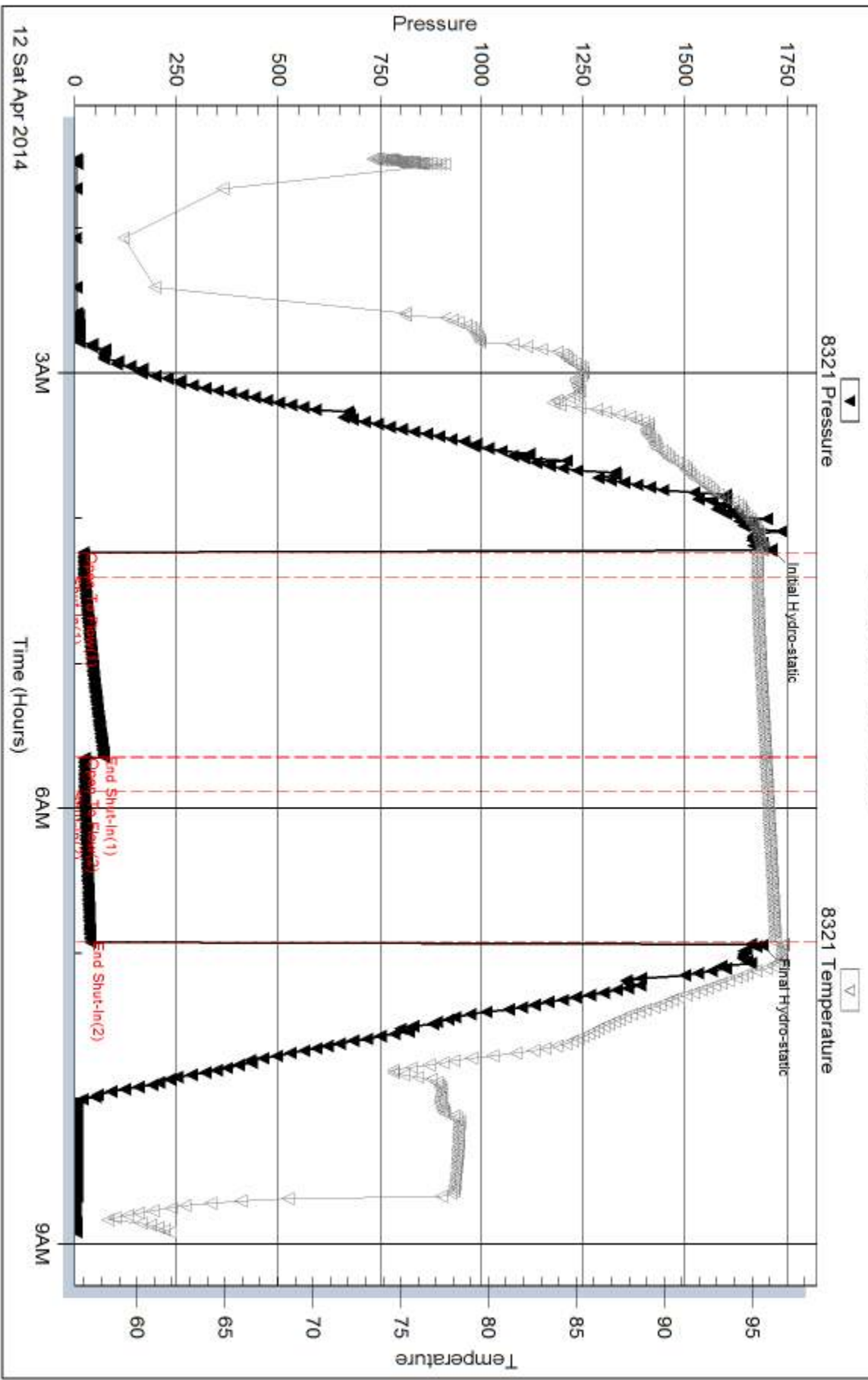
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler: 2000mL M w / oil spots @ 20PSI

Pressure vs. Time



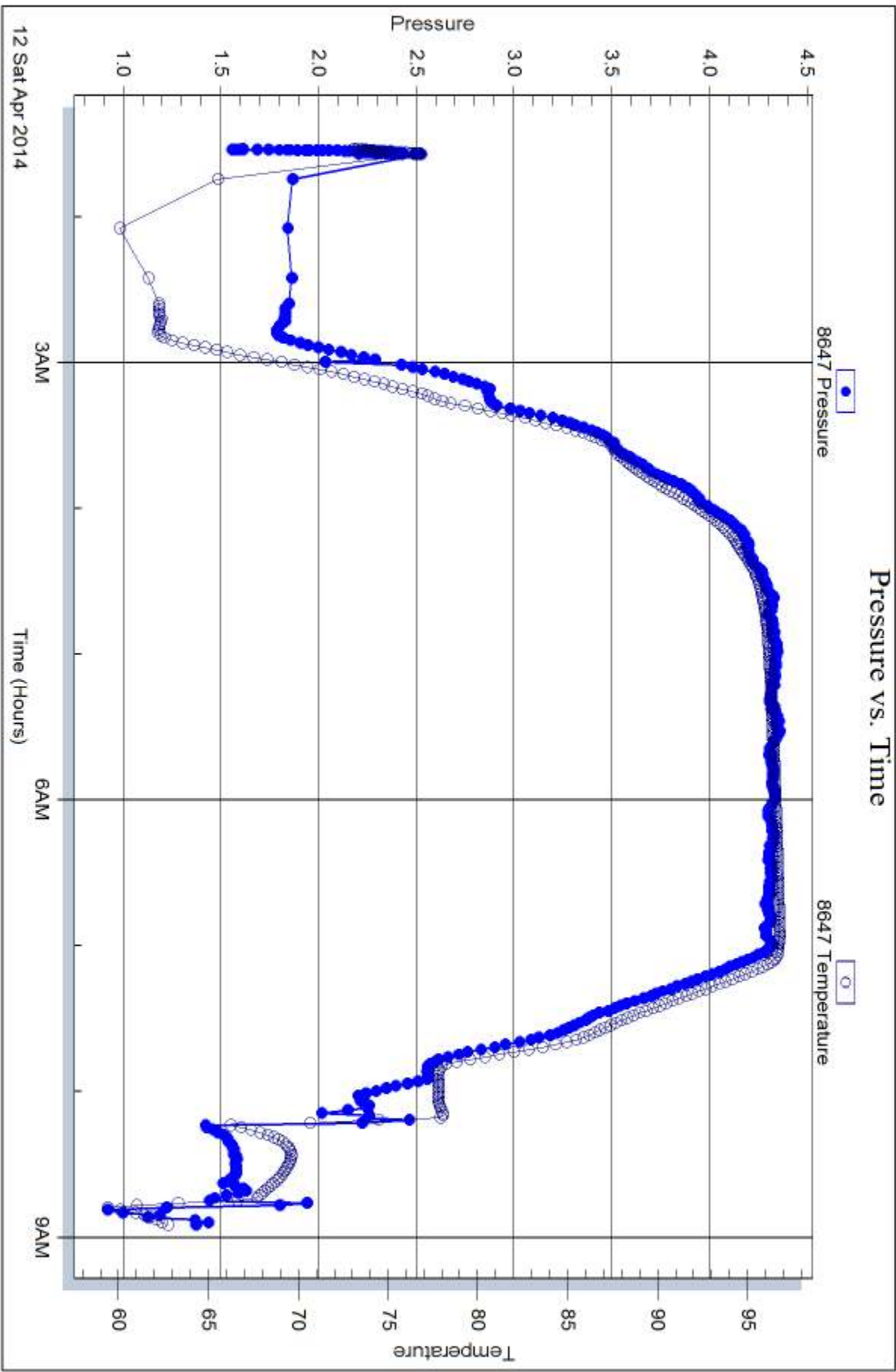
Serial #: 8647

Fluid

Samuel Gary Jr. & Associates, Inc.

Bales #1-26

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 58755

Printed: 2014.04.14 @ 07:56:34



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

26-4S-23W Norton, Ks

1515 Wynkoop
Ste. 700
Denver, CO 80202
ATTN: Clayton Camozzi

Bales #1-26

Job Ticket: 58756

DST#: 2

Test Start: 2014.04.12 @ 18:37:56

GENERAL INFORMATION:

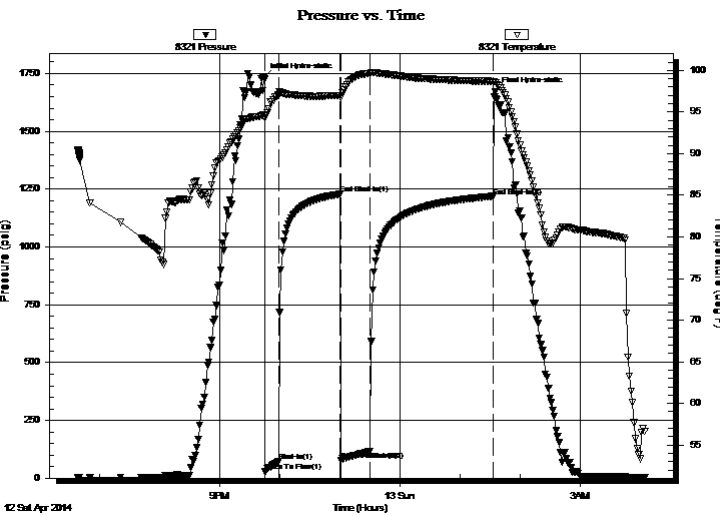
Formation: **LKC "B"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:44:56
 Time Test Ended: 04:04:26
 Interval: **3546.00 ft (KB) To 3570.00 ft (KB) (TVD)**
 Total Depth: 3570.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brannan L
 Unit No: 48
 Reference Elevations: 2416.00 ft (KB)
 2408.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8321

Outside

Press@RunDepth: 115.48 psig @ 3547.00 ft (KB)
 Start Date: 2014.04.12 End Date: 2014.04.13
 Start Time: 18:37:57 End Time: 04:04:26
 Capacity: 8000.00 psig
 Last Calib.: 2014.04.13
 Time On Btm: 2014.04.12 @ 21:43:26
 Time Off Btm: 2014.04.13 @ 01:34:26

TEST COMMENT: 015- IF- Slow ly built to 4"
 060- IS- No blow
 030- FF- Slow ly built to 4"
 120- FS- No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1733.18	94.63	Initial Hydro-static
2	29.08	94.28	Open To Flow (1)
15	72.69	97.04	Shut-In(1)
77	1228.19	96.96	End Shut-In(1)
78	77.88	96.75	Open To Flow (2)
107	115.48	99.59	Shut-In(2)
229	1218.90	98.68	End Shut-In(2)
231	1669.76	98.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
200.00	MW, 60%W 40%M	1.67

* 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, Inc.

26-4S-23W Norton, Ks

1515 Wynkoop
Ste. 700
Denver, CO 80202
ATTN: Clayton Camozzi

Bales #1-26

Job Ticket: 58756 **DST#: 2**
Test Start: 2014.04.12 @ 18:37:56

GENERAL INFORMATION:

Formation: **LKC "B"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:44:56

Time Test Ended: 04:04:26

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan L

Unit No: 48

Interval: 3546.00 ft (KB) To 3570.00 ft (KB) (TVD)

Reference Elevations: 2416.00 ft (KB)

Total Depth: 3570.00 ft (KB) (TVD)

2408.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8647 Fluid

Press@RunDepth: psig @ 3518.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.12

End Date: 2014.04.13

Last Calib.: 2014.04.13

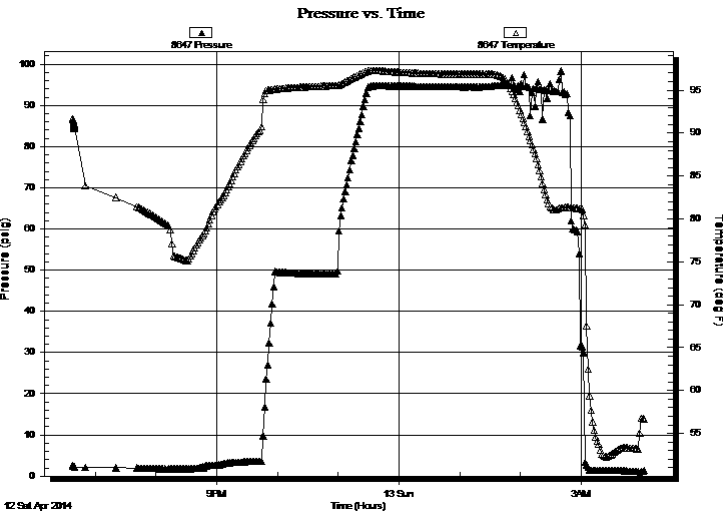
Start Time: 18:37:51

End Time: 04:02:20

Time On Btm:

Time Off Btm:

TEST COMMENT: 015- IF- Slow ly built to 4"
060- IS- No blow
030- FF- Slow ly built to 4"
120- FS- No blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
200.00	MW, 60%W 40%M	1.67

* 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.

26-4S-23W Norton, Ks

1515 Wynkoop
Ste. 700
Denver, CO 80202
ATTN: Clayton Camozzi

Bales #1-26

Job Ticket: 58756

DST#: 2

Test Start: 2014.04.12 @ 18:37:56

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 53.00 sec/qt

Water Loss: 8.79 in³

Resistivity: ohm.m

Salinity: 2000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

deg API

Water Salinity: 45000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
200.00	MW, 60%W 40%M	1.674

Total Length: 200.00 ft Total Volume: 1.674 bbl

Num Fluid Samples: 0

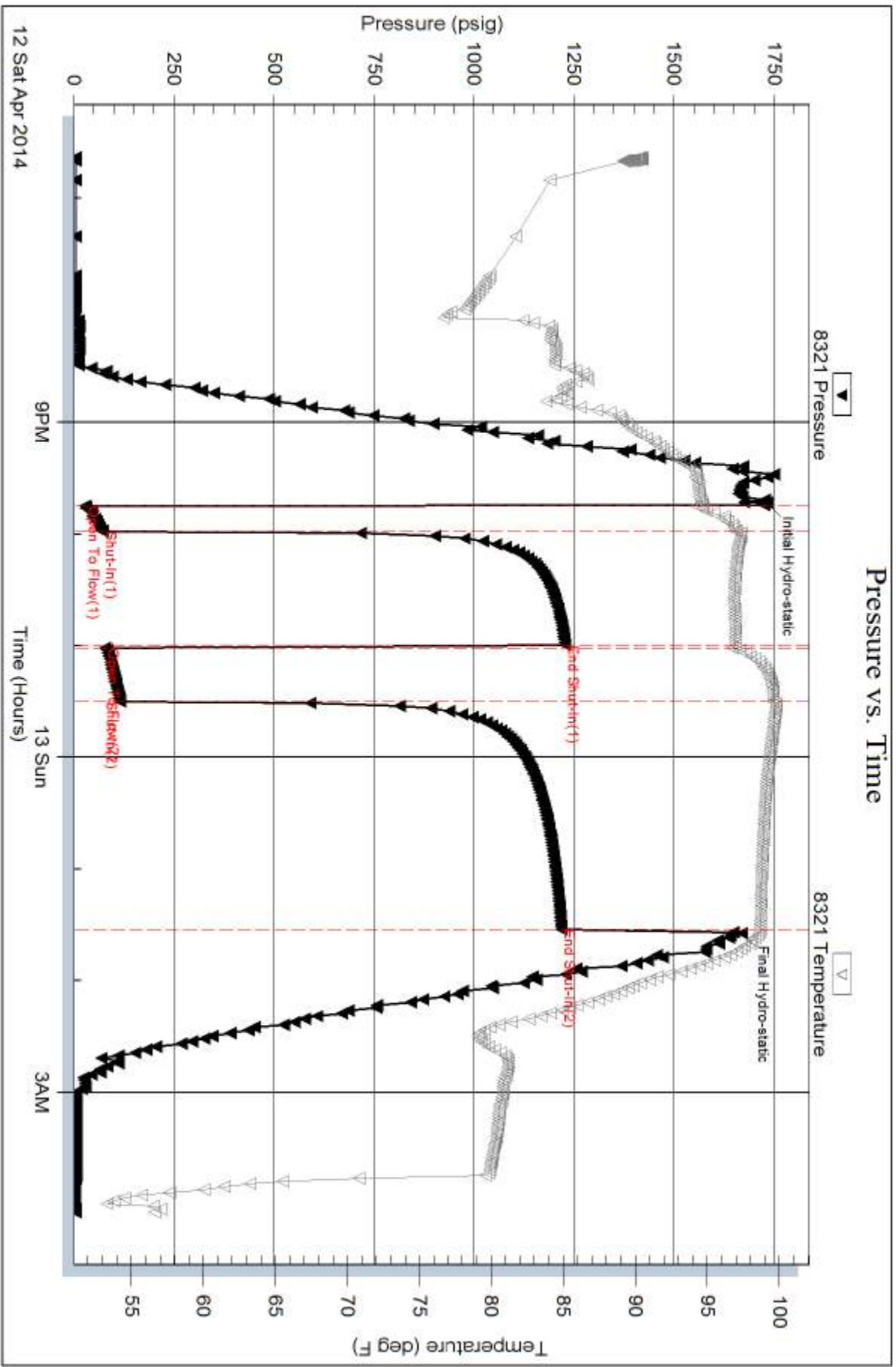
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler: 200mL M & 1800mL W @ 40PSI



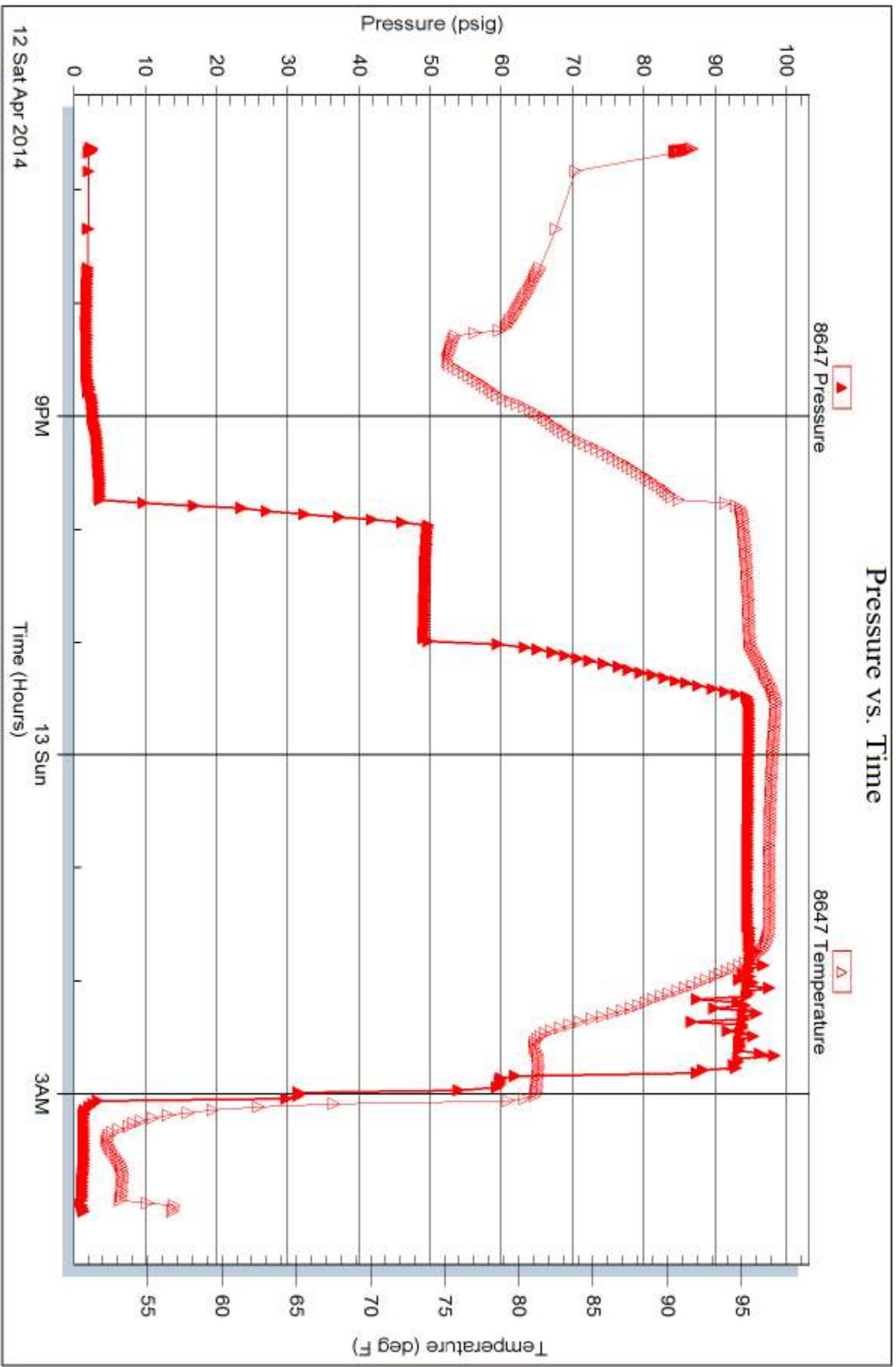
Serial #: 8647

Fluid

Samuel Gary J. & Associates, Inc.

Bales #1-26

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 58756

Printed: 2014.04.14 @ 07:55:30



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

26-4S-23W Norton, Ks

1515 Wynkoop
Ste. 700
Denver, CO 80202
ATTN: Clayton Camozzi

Bales #1-26

Job Ticket: 58757

DST#: 3

Test Start: 2014.04.14 @ 05:55:33

GENERAL INFORMATION:

Formation: **Gorham Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:55:03

Time Test Ended: 15:43:33

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan L

Unit No: 48

Interval: 3736.00 ft (KB) To 3788.00 ft (KB) (TVD)

Reference Elevations: 2416.00 ft (KB)

Total Depth: 3788.00 ft (KB) (TVD)

2408.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8372

Inside

Press@RunDepth: 335.71 psig @ 3737.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.14

End Date:

2014.04.14

Last Calib.:

2014.04.14

Start Time: 05:55:34

End Time:

15:43:33

Time On Btm:

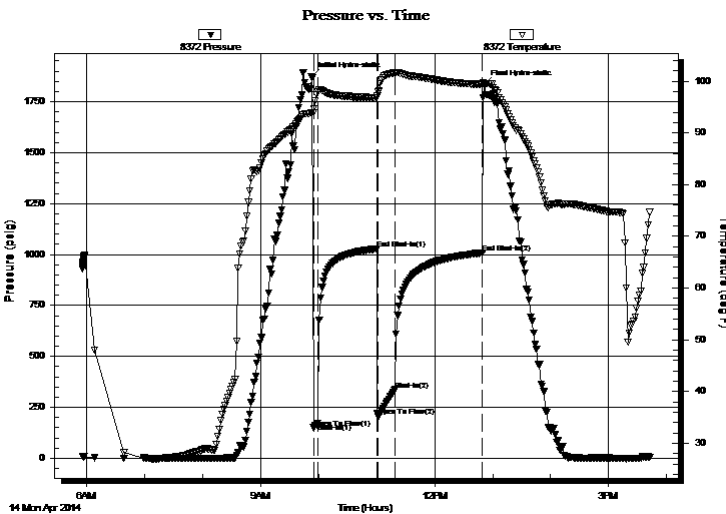
2014.04.14 @ 09:52:33

Time Off Btm:

2014.04.14 @ 12:51:33

TEST COMMENT: 05- IF- BOB 2mins
60- IS- No blow
20- FF- BOB 2mins
90- FS- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1873.37	93.92	Initial Hydro-static
3	148.26	94.72	Open To Flow (1)
7	171.93	97.95	Shut-In(1)
68	1026.74	96.85	End Shut-In(1)
69	204.06	97.97	Open To Flow (2)
87	335.71	101.59	Shut-In(2)
177	1008.46	99.33	End Shut-In(2)
179	1835.23	99.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
800.00	MW, 40%M 60%W	9.87

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.

1515 Wynkoop
Ste. 700
Denver, CO 80202
ATTN: Clayton Camozzi

26-4S-23W Norton, Ks

Bales #1-26

Job Ticket: 58757

DST#: 3

Test Start: 2014.04.14 @ 05:55:33

GENERAL INFORMATION:

Formation: **Gorham Sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:55:03
Time Test Ended: 15:43:33

Test Type: Conventional Bottom Hole (Reset)
Tester: Brannan L
Unit No: 48

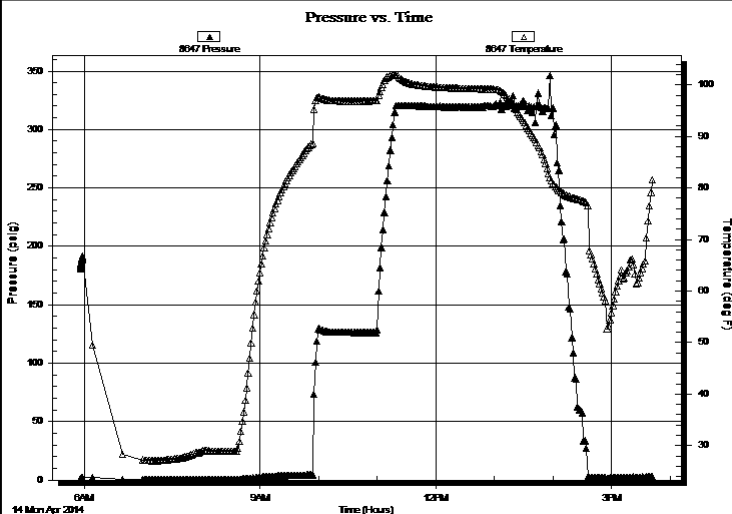
Interval: 3736.00 ft (KB) To 3788.00 ft (KB) (TVD)
Reference Elevations: 2416.00 ft (KB)
Total Depth: 3788.00 ft (KB) (TVD)
2408.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair
KB to GR/CF: 8.00 ft

Serial #: 8647

Fluid

Press@RunDepth: psig @ 3708.00 ft (KB)
Capacity: 8000.00 psig
Start Date: 2014.04.14 End Date: 2014.04.14 Last Calib.: 2014.04.14
Start Time: 05:56:07 End Time: 15:42:06 Time On Btm:
Time Off Btm:

TEST COMMENT: 05- IF- BOB 2mins
60- ISI- No blow
20- FF- BOB 2mins
90- FSI- No blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
800.00	MW, 40%M 60%W	9.87

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates, Inc.

26-4S-23W Norton, Ks

1515 Wynkoop
Ste. 700
Denver, CO 80202
ATTN: Clayton Camozzi

Bales #1-26

Job Ticket: 58757

DST#: 3

Test Start: 2014.04.14 @ 05:55:33

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 70.00 sec/qt

Water Loss: 7.98 in³

Resistivity: ohm.m

Salinity: 3000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: 60000 ppm

deg API

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
800.00	MW, 40%M 60%W	9.871

Total Length: 800.00 ft Total Volume: 9.871 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

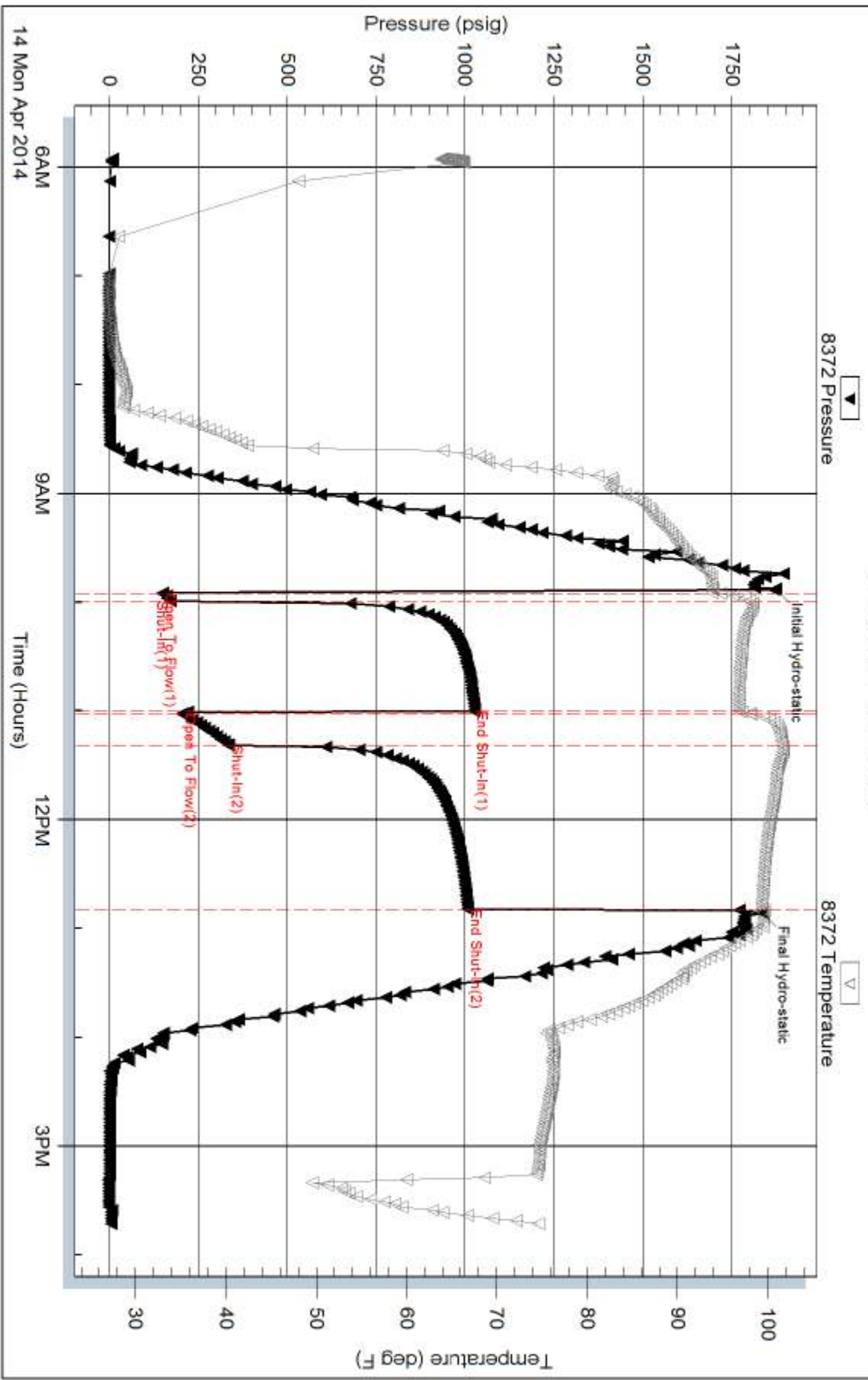
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler: 2000mL W@160PSI

Pressure vs. Time



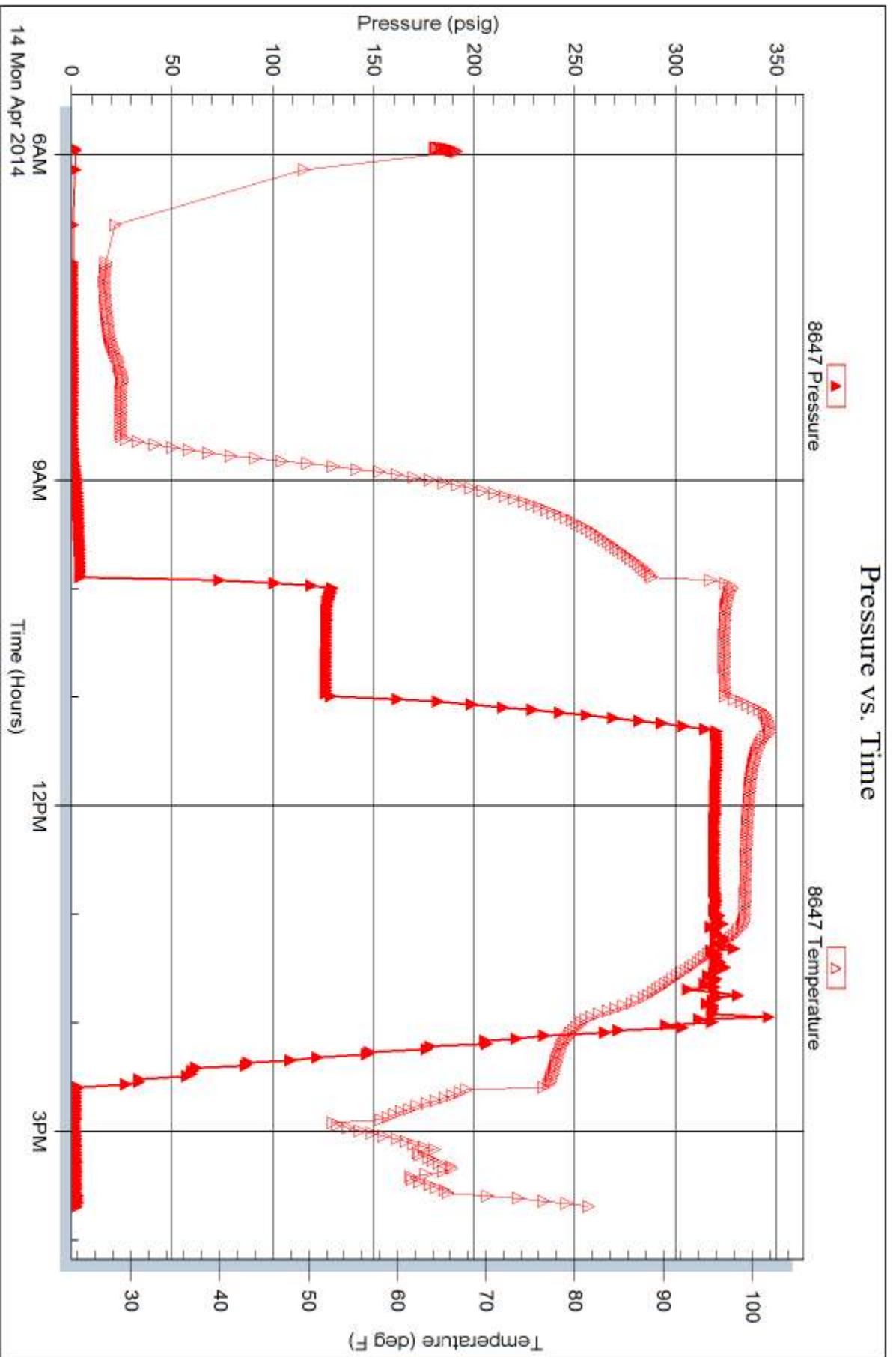
Serial #: 8647

Fluid

Samuel Gary Jr. & Associates, Inc.

Bales #1-26

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 58757

Printed: 2014.04.14 @ 16:19:00



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

26-4S-23W Norton, Ks

1515 Wynkoop
Ste. 700
Denver, CO 80202
ATTN: Clayton Camozzi

Bales #1-26

Job Ticket: 58758

DST#: 4

Test Start: 2014.04.14 @ 21:58:55

GENERAL INFORMATION:

Formation: **Reagen Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:22:55

Time Test Ended: 05:26:55

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan L

Unit No: 48

Interval: 3800.00 ft (KB) To 3812.00 ft (KB) (TVD)

Reference Elevations: 2416.00 ft (KB)

Total Depth: 3812.00 ft (KB) (TVD)

2408.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8321 Outside

Press @ Run Depth: 30.23 psig @ 3801.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.14

End Date:

2014.04.15

Last Calib.:

2014.04.15

Start Time: 21:58:56

End Time:

05:26:55

Time On Btm:

2014.04.15 @ 00:22:25

Time Off Btm:

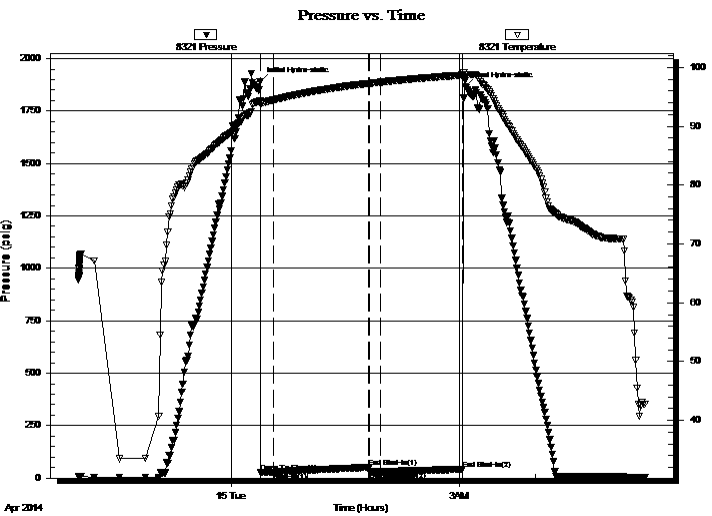
2014.04.15 @ 03:04:55

TEST COMMENT: 10- IF- Surface blow built to .25"

75- IS- No blow

10- FF- No blow

60- FSI- No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1890.48	94.27	Initial Hydro-static
1	26.95	93.74	Open To Flow (1)
11	28.91	94.44	Shut-In(1)
86	50.96	97.25	End Shut-In(1)
87	30.24	97.27	Open To Flow (2)
95	30.23	97.48	Shut-In(2)
160	41.57	98.68	End Shut-In(2)
163	1866.60	98.71	Final Hydro-static

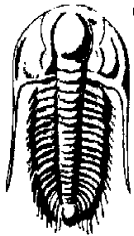
Recovery

Length (ft)	Description	Volume (bbl)
3.00	M	0.01

* 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, Inc.

26-4S-23W Norton, Ks

1515 Wynkoop
Ste. 700
Denver, CO 80202
ATTN: Clayton Camozzi

Bales #1-26

Job Ticket: 58758 **DST#: 4**
Test Start: 2014.04.14 @ 21:58:55

GENERAL INFORMATION:

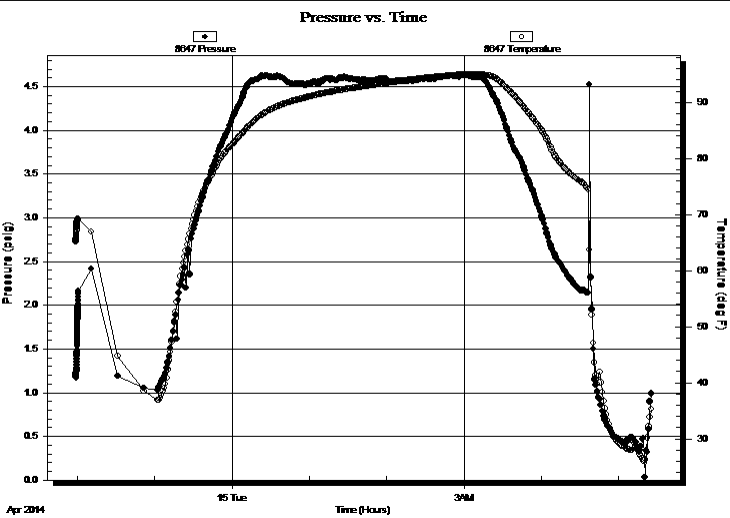
Formation: **Reagen Sand**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 00:22:55 Tester: Brannan L
 Time Test Ended: 05:26:55 Unit No: 48
Interval: 3800.00 ft (KB) To 3812.00 ft (KB) (TVD) Reference Elevations: 2416.00 ft (KB)
 Total Depth: 3812.00 ft (KB) (TVD) 2408.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8647

Fluid

Press @ RunDepth: psig @ 3772.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.04.14 End Date: 2014.04.15 Last Calib.: 2014.04.15
 Start Time: 21:58:54 End Time: 05:25:23 Time On Btm:
 Time Off Btm:

TEST COMMENT: 10- IF- Surface blow built to .25"
 75- IS- No blow
 10- FF- No blow
 60- FSI- No blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
3.00	M	0.01

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates, Inc.

26-4S-23W Norton, Ks

1515 Wynkoop
Ste. 700
Denver, CO 80202

Bales #1-26

Job Ticket: 58758

DST#: 4

ATTN: Clayton Camozzi

Test Start: 2014.04.14 @ 21:58:55

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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1750.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	M	0.015

Total Length: 3.00 ft Total Volume: 0.015 bbl

Num Fluid Samples: 0

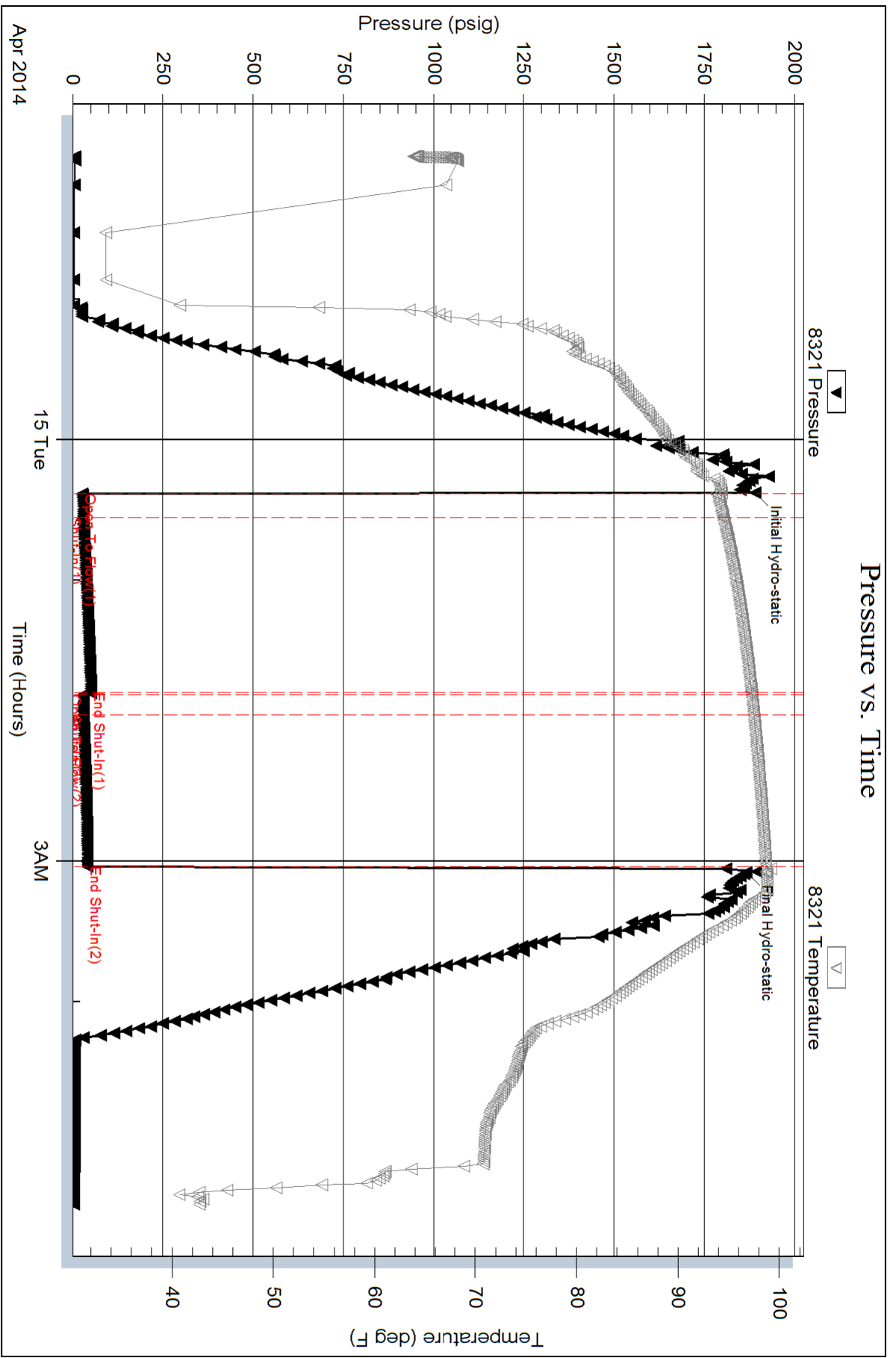
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler: 2000mL M@20PSI



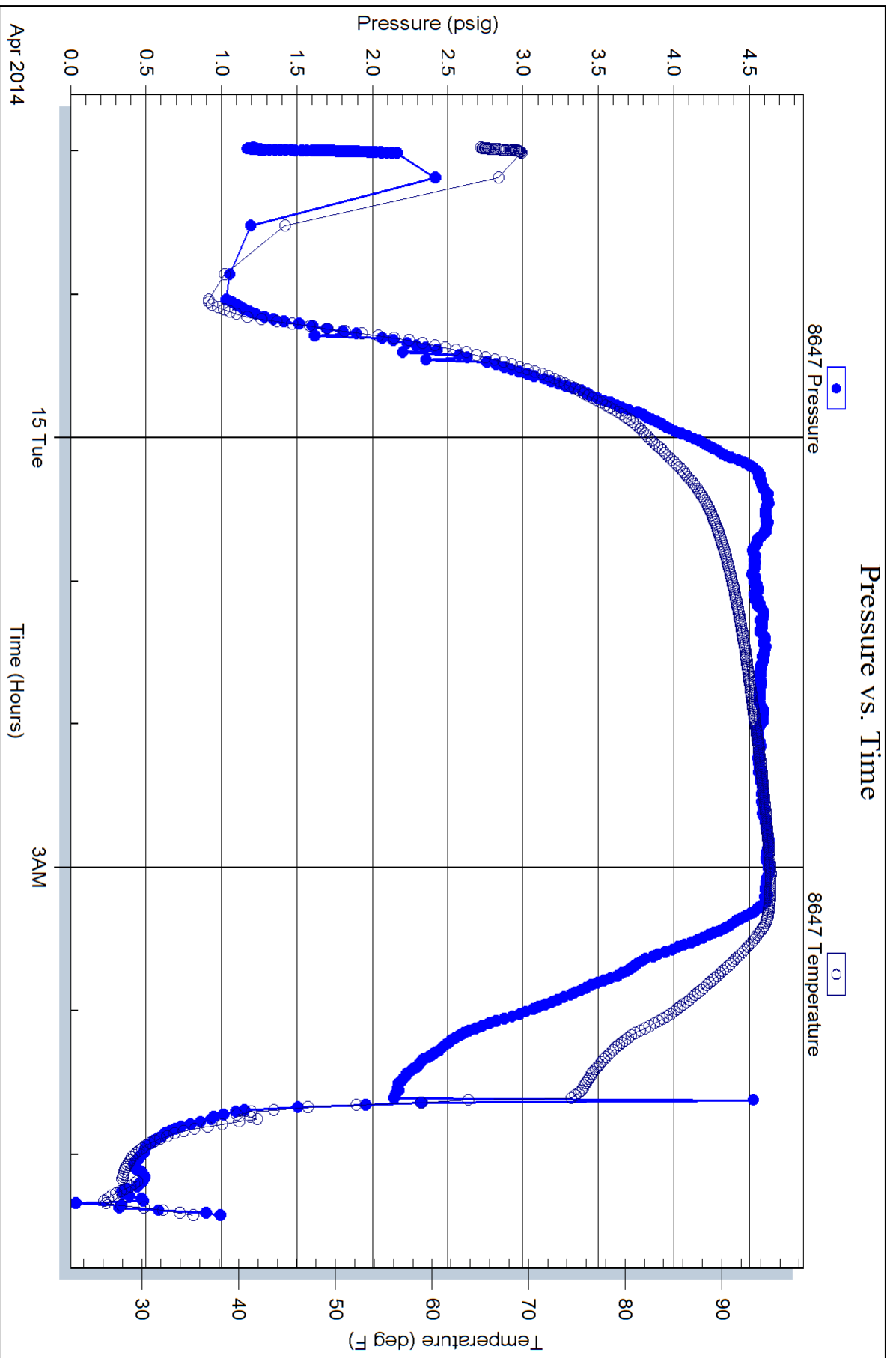
Serial #: 8647

Fluid

Samuel Gary Jr. & Associates, Inc.

Bales #1-26

DST Test Number: 4





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

Well Name: SGA BALES 1-26
Well Id:
Location: SEC 26-4S-23W
License Number: 15-137-20696-0000
Spud Date: April 8, 2014
Surface Coordinates: 757 FNL / 1008 FWL
Region: Wildcat
Drilling Completed:

Bottom Hole
Coordinates:
Ground Elevation (ft): 2408' K.B. Elevation (ft): 2416'
Logged Interval (ft): 3150' To: Total Depth (ft):
Formation: Lansing, Kansas City
Type of Drilling Fluid: Natural Chemical

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: Clayton Camozzi

GEOLOGIST

Name: Jeff Kamps / Schuyler Hedrick
Company: Earth Tech OGL, Inc.
Address: PO Box 683
Hooker, Okla . 73945
Off. 888-543-8378 Cell: 580-754-0062

DST's Report

DST #1 3497'-3526' 10-75-15-60
IF-WK SURF BLOW, ISI- NO BLOW, FF- NO BLOW, FSI- NO BLOW
IH-1712, FH-1690/IF-22-25, FF-24-25/ISI-71, FSI-39
REC 1' OF TF / 1' OF MUD W/ OIL SPOTS/ BHT-96 / CHLOR - 1000PPM SYSTEM

DST's Report

DST #2 3546'-3570' 15-60-30-120
IF-SLOWLY BUILT TO 4", ISI-NO BLOW, FF-SLOWLY BUILT TO 4", FSI-NO BLOW
IH-1733, FH-1670/IF-29-78, FF-73-115/ISI-1228, FSI-1219
REC 200' OF TF / 200' OF MW 60% WATER 40% MUD / BHT-99 / API RW-.19@55 DEG /CHLOR - 45000 PPM,
2000PPM SYSTEM

DST's Report

DST #3 3736'-3788' 5-60-20-90

IF-BOB 2 MIN, ISI-NO BLOW, FF-BOB 2 MIN, FSI-NO BLOW

IH-1873, FH-1835 / IF - 148-204, FF-172-336/ISI-1027, FSI-1008

REC 800' OF MW 60% WATER 40% MUD / BHT 99 / API RW- .13@59 DEG / CHLOR 60000 PPM, 3000 PPM SYSTEM

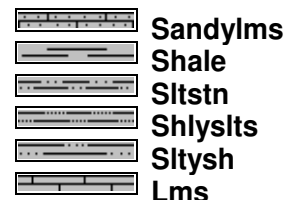
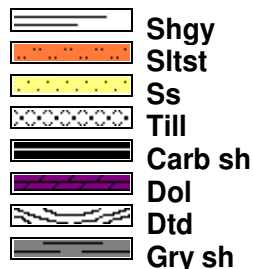
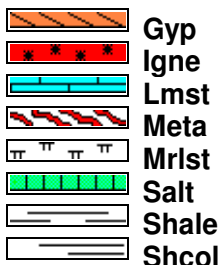
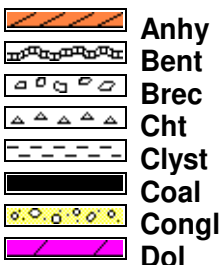
DST #4 3800'-3812 10-75-10-60

IF-SURFACE BLOW BUILT TO 1/4", ISI-NO BLOW, FF-NO BLOW, FSI-NO BLOW

IH- 1890, FH-1867/IF-27-30, FF29-30/ ISI-51, FSI-42

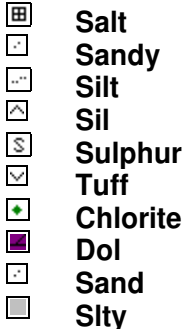
REC 3' OF MUD / BHT 99

ROCK TYPES

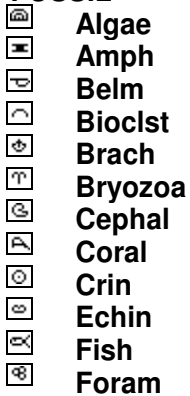


ACCESSORIES

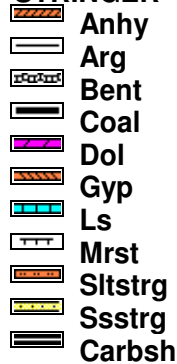
MINERAL



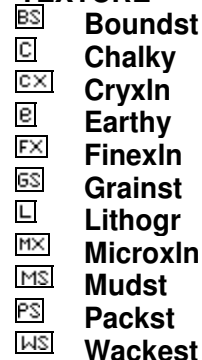
FOSSIL



STRINGER



TEXTURE



OTHER SYMBOLS

POROSITY TYPE

- E Earthy
- F 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

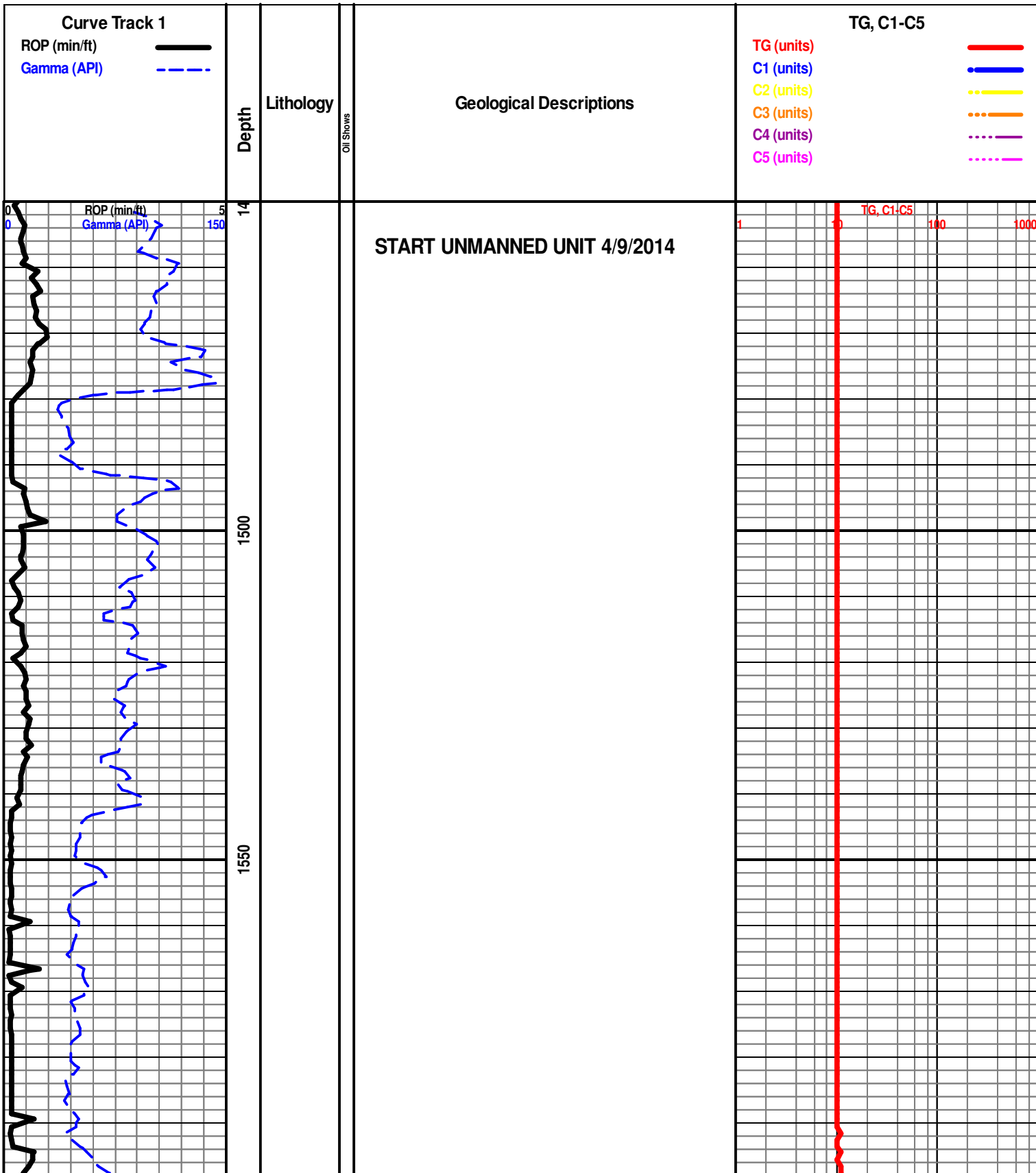
- E Even
- S Spotted
- Q Ques
- D Dead
- X Gas show

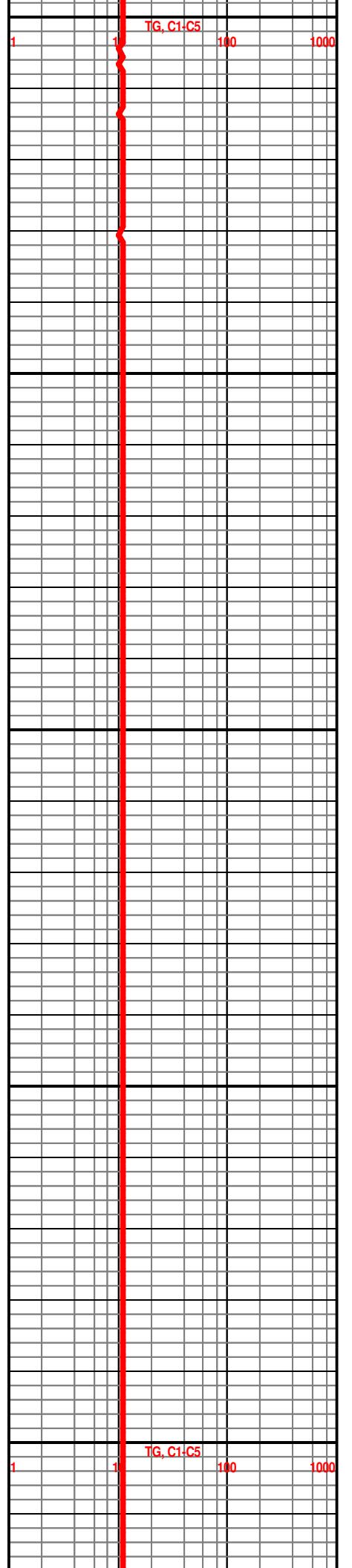
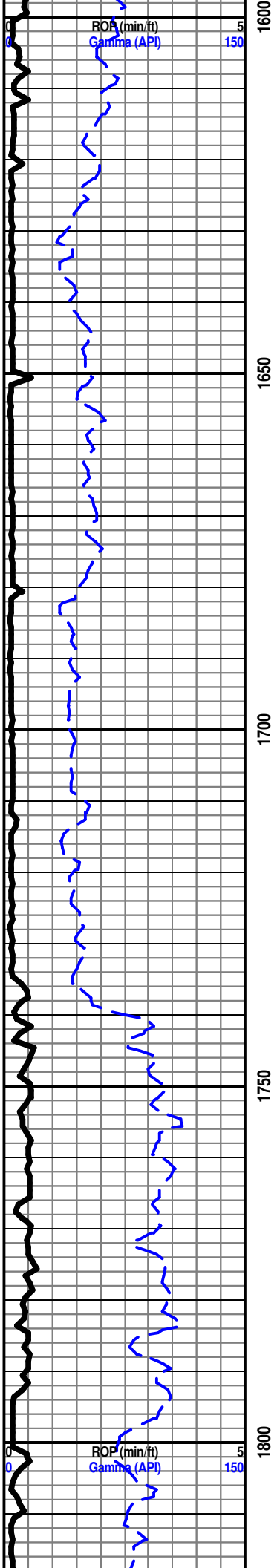
INTERVALS

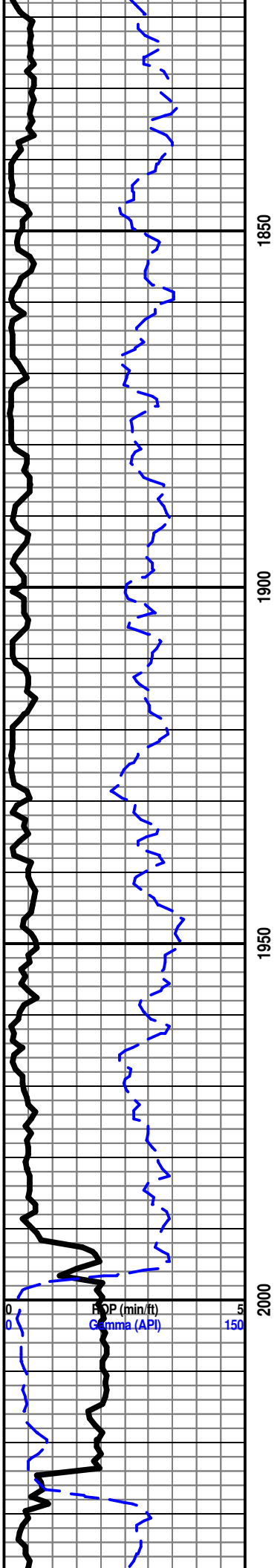
- Core
- Dst
- Dst

EVENTS

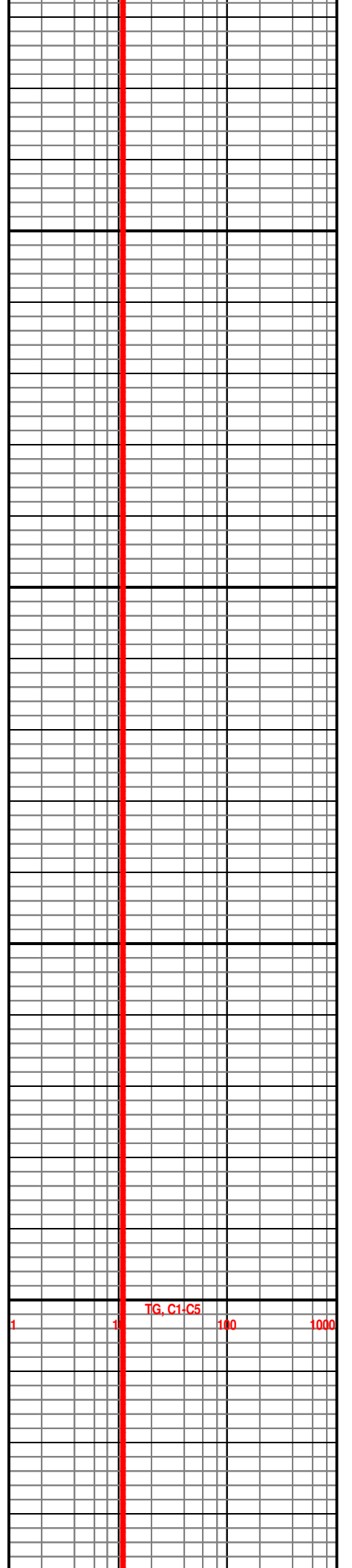
- ▽ Rft
- ▶ Sidewall

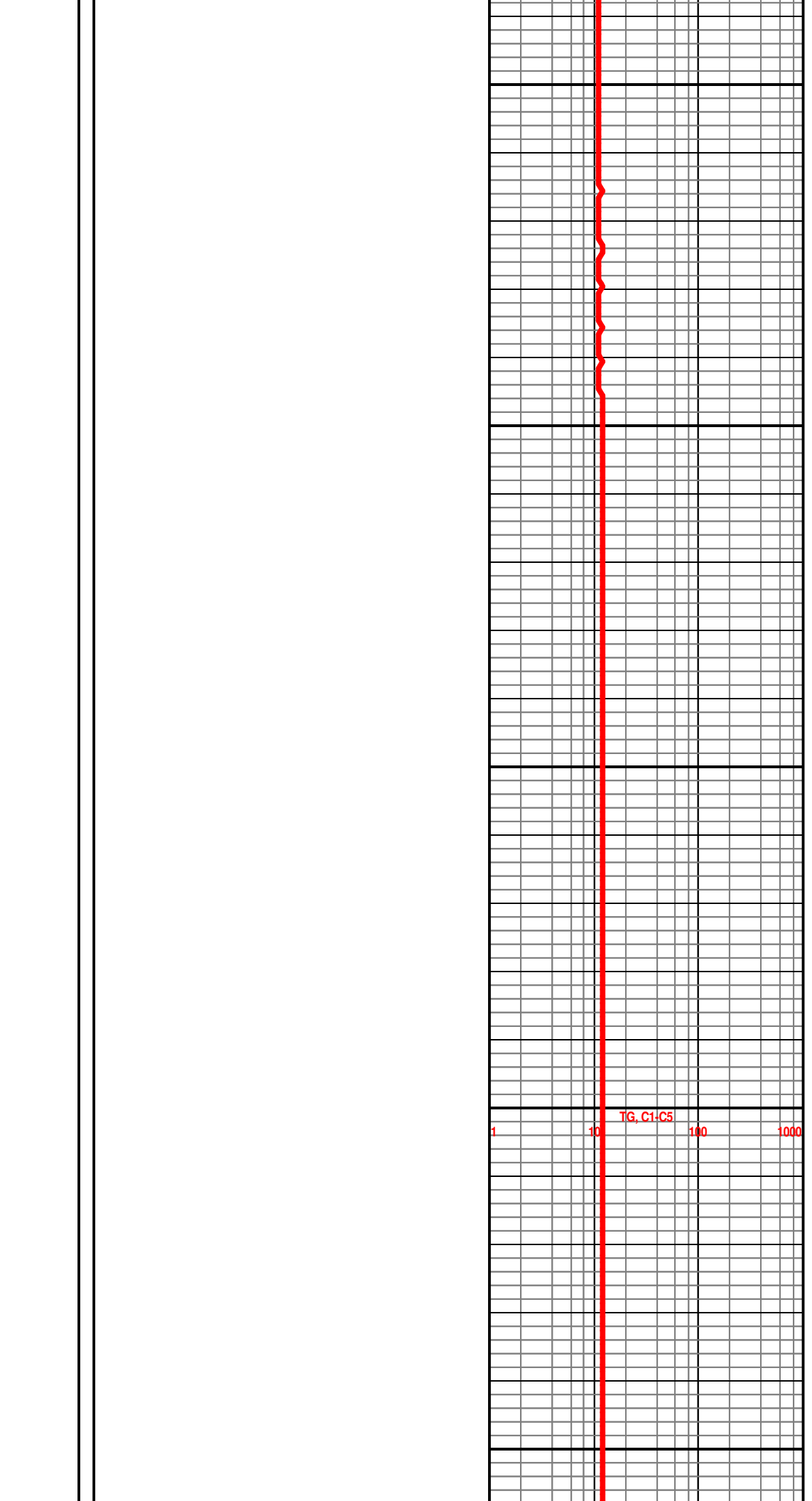
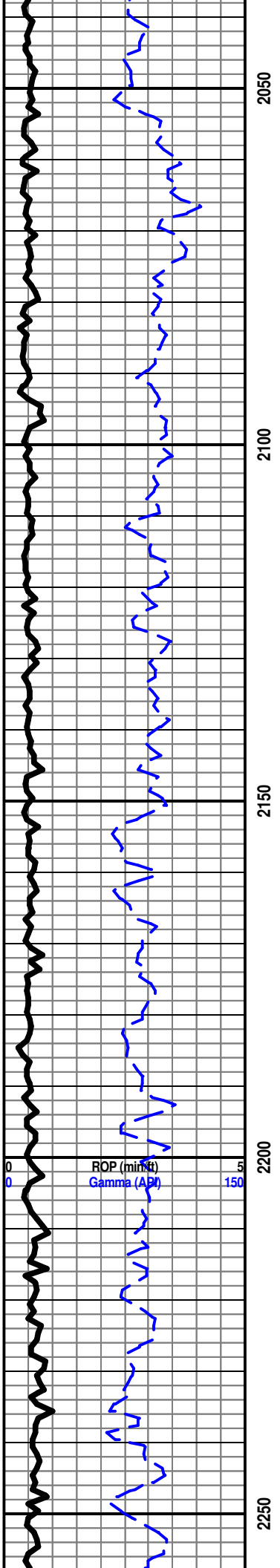


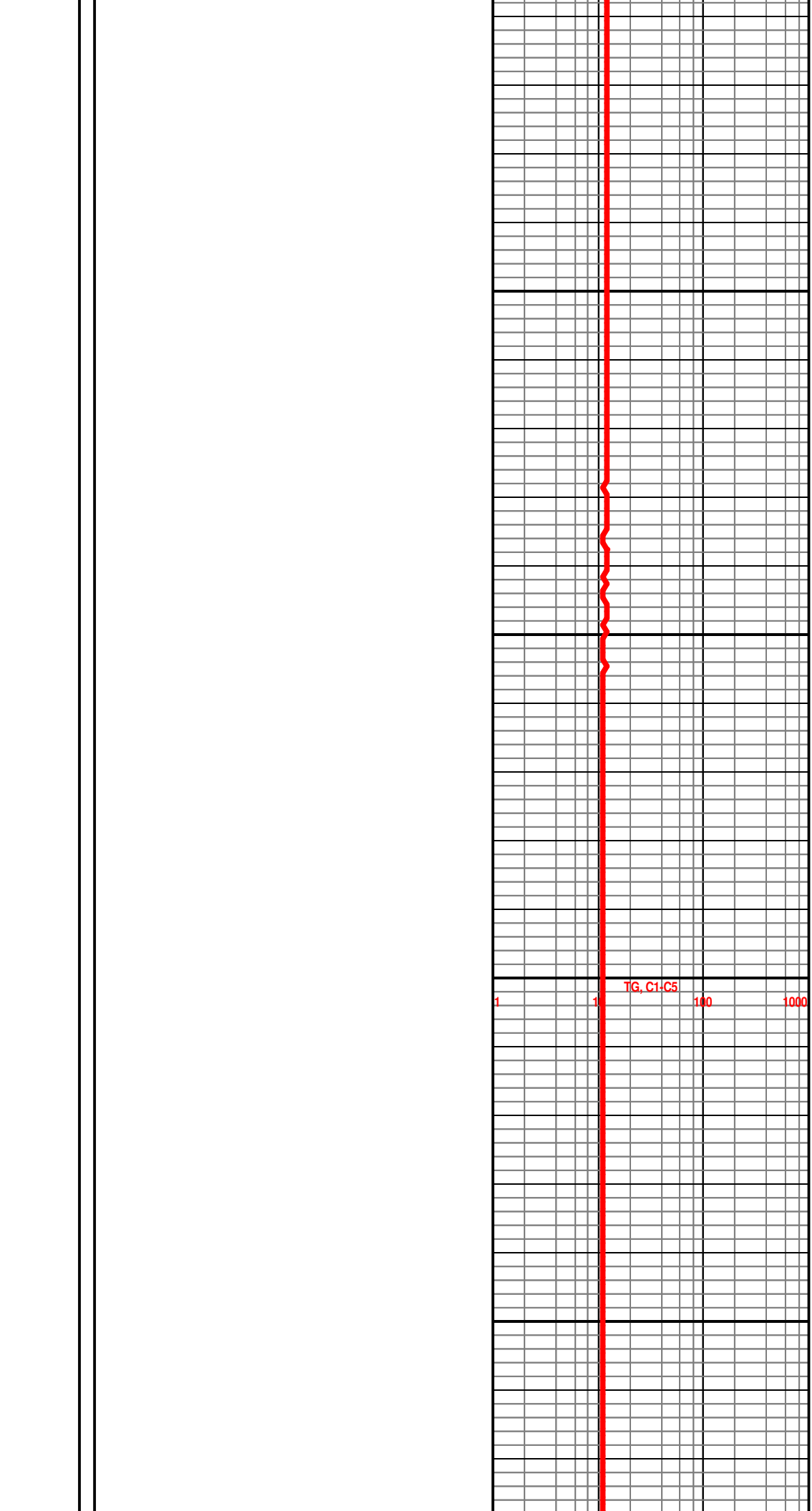
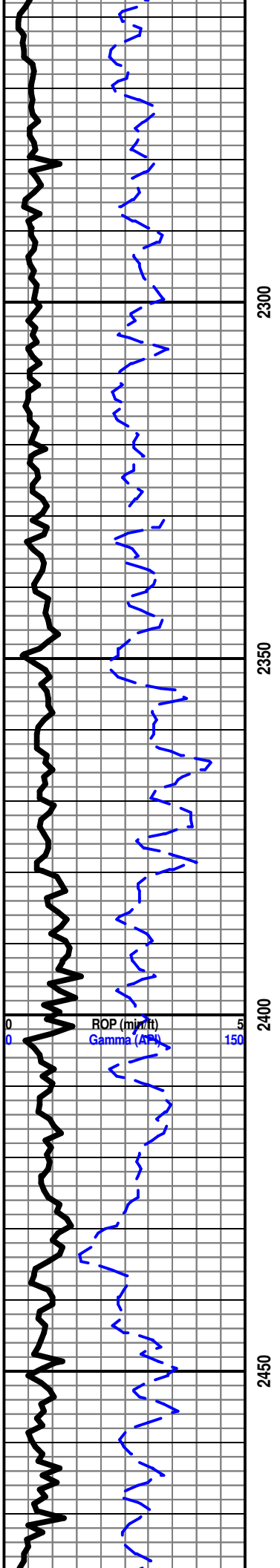


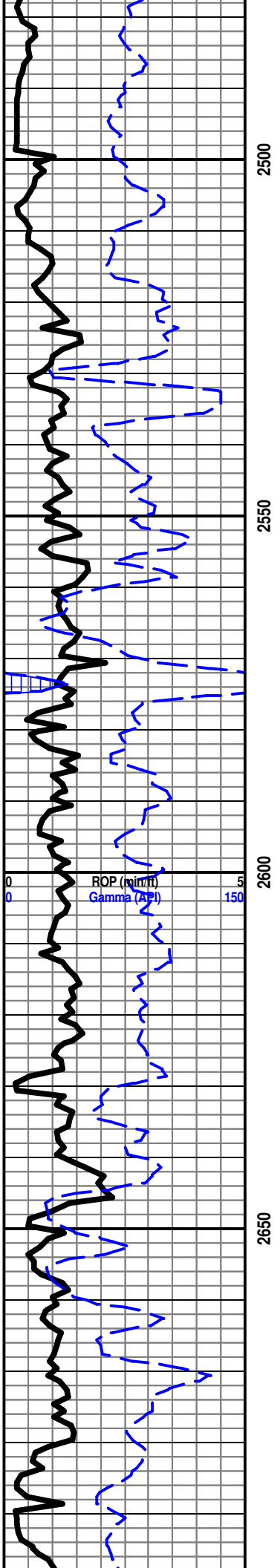


STONE CORRAL 1992' (424')



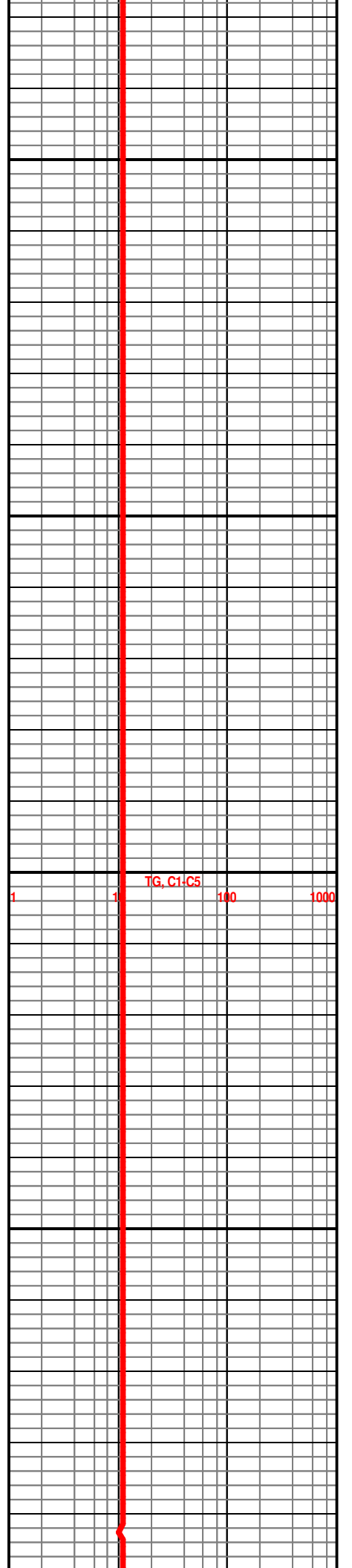


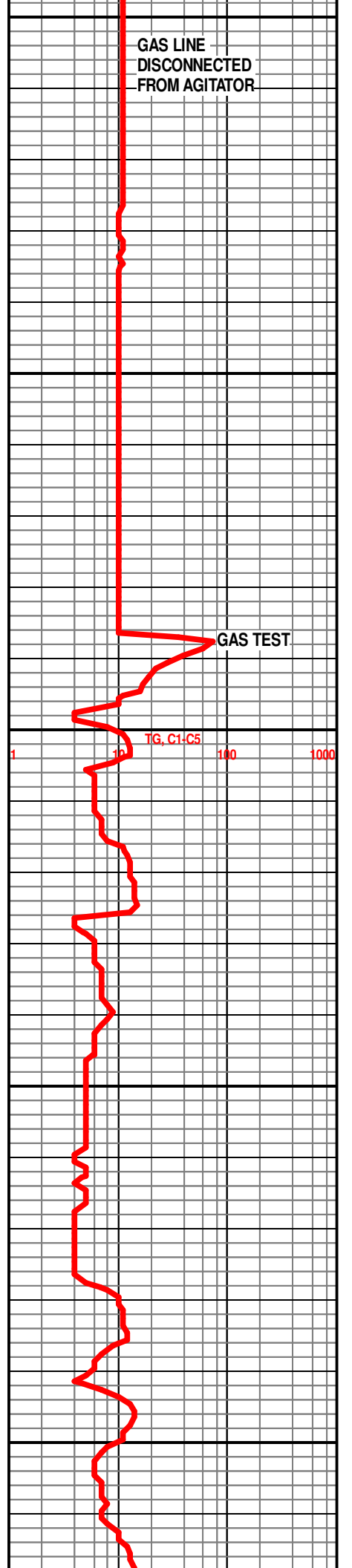
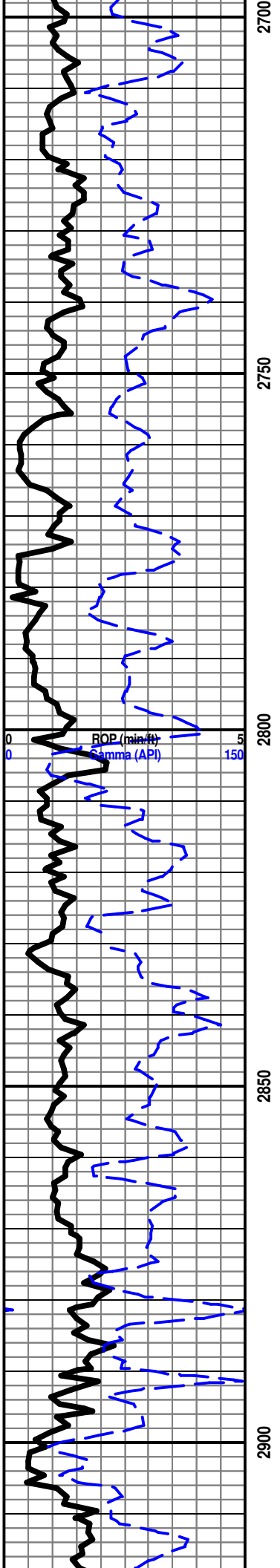


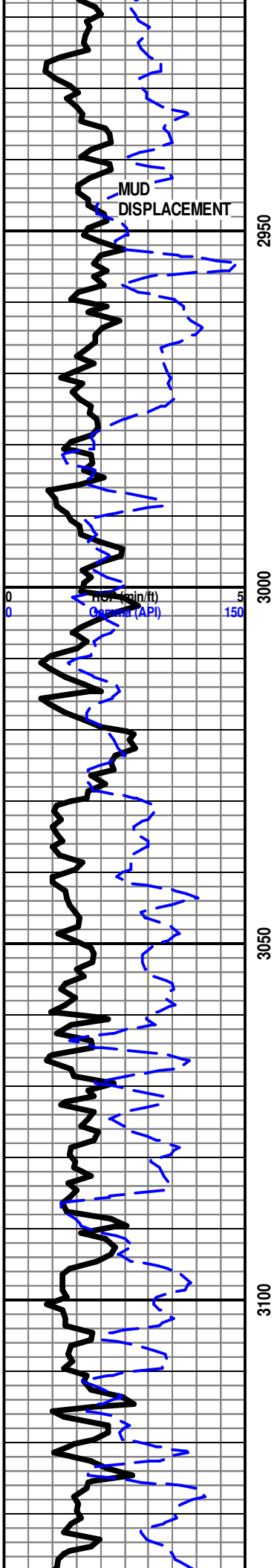


MATTFIELD 2551' (-135')

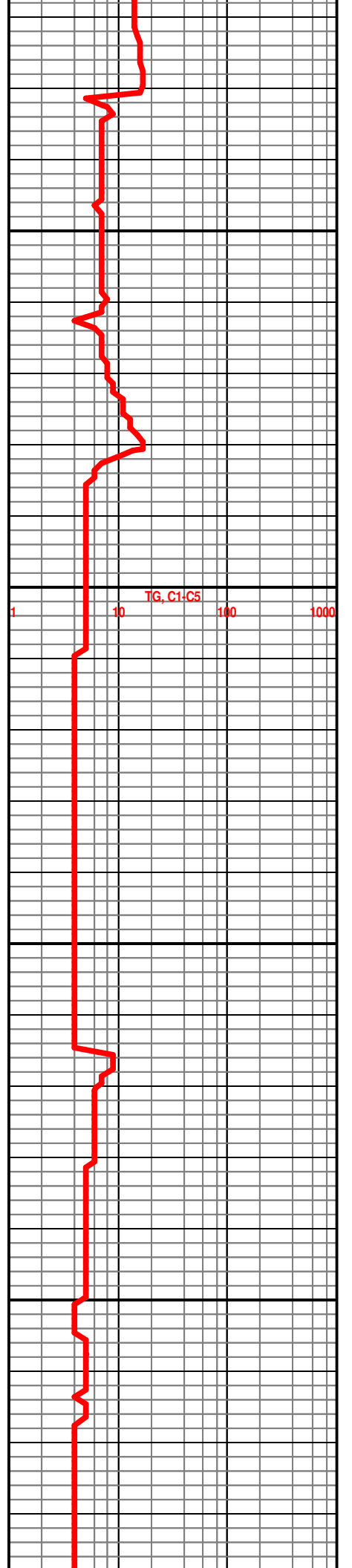
WRELORD 2640' (-224')

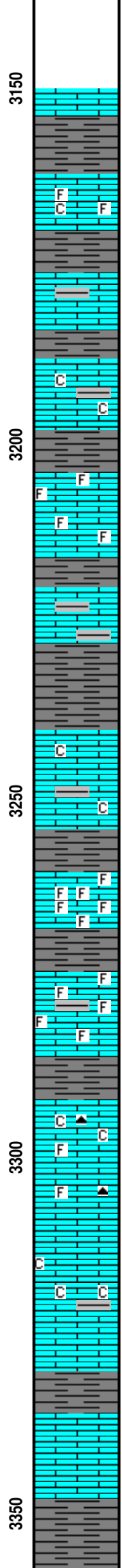
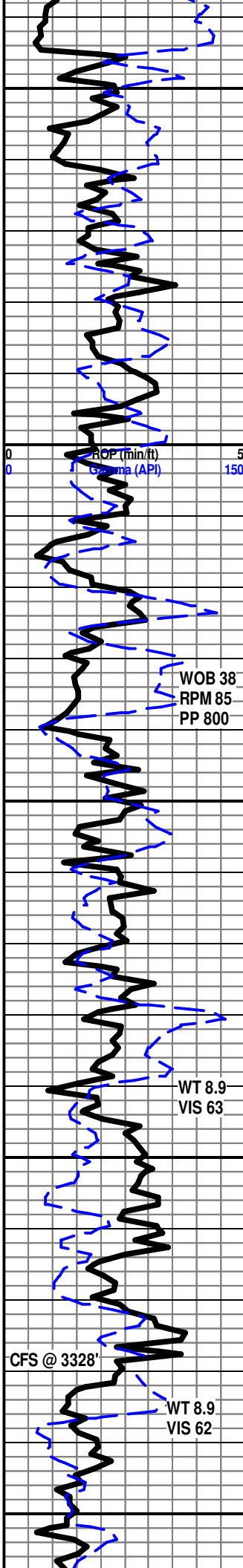






JANESVILLE SHALE 3030' (-614')





START 24 HR MANNED UNIT 4/10/2014

LS- CRM TO LT GY, HD DNS TO BR TT, MD/F-XLN, S-CHLKY IP, IMB SM FOSS FRGS THRU, V LT TR SFT WHT CHLK IN TRAY, DLL YEL MIN FLO THRU, NO VIS POR, NO VIS CUT OR SHOW

LS- GY TO LT GY CRM IP, V HD DNS TO TR BR TT IP, VF/F-XLN MTRX, TR IMB CALC-XLS IP, SLI TR INTER-BD GY SH, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- OFF WHT TO CRM, HD DNS TO BR TT IP, MD/F-VF-XLN, S-CHLKY IP, LT TR IMB SFT WHT CHLK IP, TR IMB GRN SH IP, DLL YEL MIN FLO IP, NO VIS POR, NO VIS CUT OR SHOW

LS- CRM TO LT TN, HD DNS TO BR TT, MD-XLN RE-XLN MTRX, S-SUCRO IP, IMB SM TO LG FOSS FRGS THRU, SLI TR FREE FOSSIL IN TRAY, V DLL YEL MIN FLO IP, FR INTER-FOSS POR IN 3%-4%, NO VIS CUT OR SHOW

LS- LT GY TO MD GY, HD DNS TO TR BR TT IP, F/VF-XLN, TR S-CHLKY IP, HVY TR INTERBD RD & GY SH, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

LS- GY TO OFF WHT IP, HD DNS TO TR BR TT IP, VF/F-XLN MTRX, S-CHLKY IP, SLI TR IMB SFT WHT CHLK IP, TR INTER-BD GY SH, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

LS- CRM TO LT TN, HD DNS TO BR TT IP, MD/F-XLN, RE-XLN, S-SUCRO IP, IMB SM FOSS FRGS THRU, SCAT IMB CALC-XLS IP, HVY TR SFT WHT CHLK IN TRAY, DLL YEL MIN FLO THRU, NO VIS POR, NO VIS CUT OR SHOW

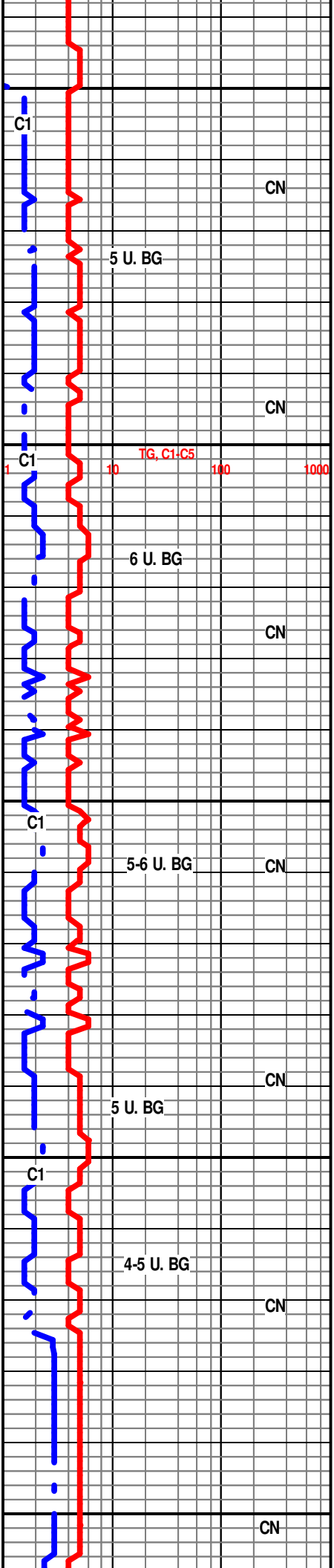
LS- OFF WHT TO CRM LT GY, HD DNS TO BR TT, MD/F-XLN, RE-XLN IP, S-CHLKY IP, A BDT IMB FOSS FRGS THRU, LT TR INTERBD GY & GRN SH, NO VIS FLO, NO VIS POR, NO VIS SHOW

TOPEKA 3292' (-876')

LS- CRM BFF TO LT TN OFF WHT IP, HD DNS TO BR TT, MD/F-XLN, RE-XLN, S-CHLKY IP, SCAT IMB V SM S-RND CLR QRTZ GRNS, TR IMB SM FOSS FRGS IP, LT TR SFT WHT CHLK, SLI TR ORNG CHRT IN TRAY, DLL YEL TO YEL FLO IN 30%, V PR TO PR INTER-XLN POR IN 1%, NO VIS CUT OR SHOW

LS- OFF WHT TO WHT CRM IP, HD DNS TO BR TT IP, MD/F-XLN, RE-XLN IP, S-SUCRO, IMB V SM CALC-XLS THRU, LT TR SFT WHT CHLK IN TRAY, TR INTER-BD GY SH, V DLL YEL MIN FLO IP, NO VIS POR, NO VIS CUT OR SHOW

LS - CRM BFF TO OFF WHT, HD DNS TO BR TT IP, MD / F-XLN, S-CHLKY, SCAT IMB S CALC-XLS IP, HVY TR SFT WHT CHLK IN TRAY, TR IMB D ORGN CHRT IP, V DLL YEL MIN FLO IP, NO VIS POR, NO VIS CUT OR SHOW



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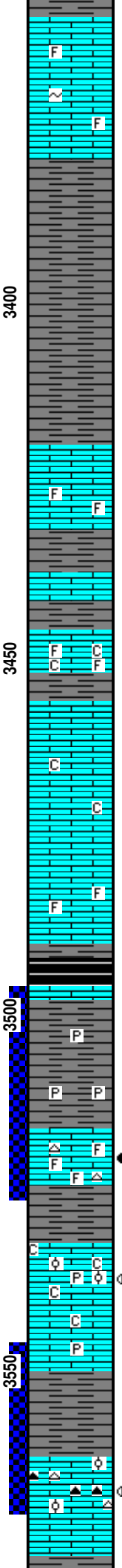
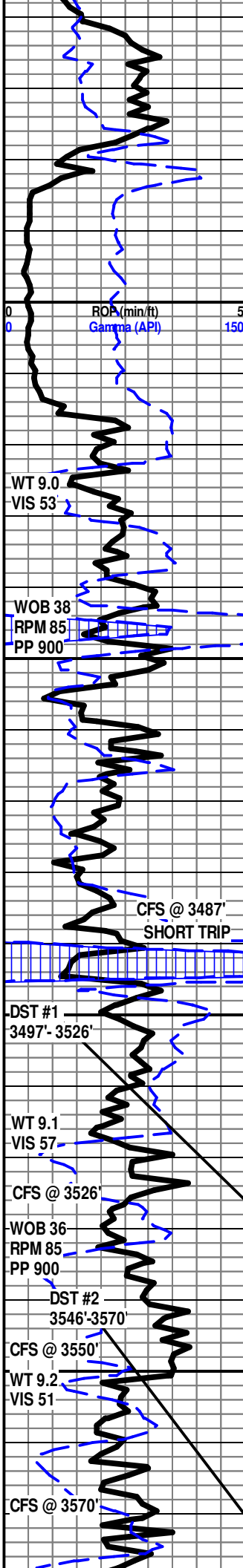
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LS - LT GY TO OFF WHT, HD DNS TO TR BRTT IP, F/MD-XLN RE-XLN, S-CHLKY, SCAT IMBD SM FOSS FRAG THRU, TR IMBD GLAUC IP, YEL TO DLL YEL MIN FLO IN 70%, NO VIS POR, NO VIS CUT OR SHOW

SH - RD TO BRWN V GMMY V SLTY

SH - RD TO DRK RD GRN MOTT, V GMMY TO V SFT V SLTY TXT

LS - CRM TO LT TN OFF WHT IP, HD DNS TO BRTT, F/MD-XLN, S-CHLKY, IMBD FOSS FRAGS IP, TR IMBD CALC-XLS, DLL YEL TO YEL MIN FLO THRU, NO VIS POR, NO VIS CUT OR SHOW

LS - CRM TO LT TN, HD DNS TO TR BRTT IP, VF/F-XLN, TR IMBD FOSS FRAG IP, HVY TR SFT WHT CHLK IN TRAY, DLL YEL MIN FLO IN 50%, NO VIS POR, NO VIS CUT OR SHOW

LS - CRM BFF TO OFF WHT, HD DNS TO BRTT IP, MD/F-XLN RE-XLN, S-CHLKY, SCAT IMBD CALC-XLS THRU, HVY TR SFT WHT CHLK IN TRAY, V DLL YEL MIN FLO IP, NO VIS POR, NO VIS CUT OR SHOW

LS - LT TN TO CRM, HD DNS TO BRTT, F/VF-XLN, S-CHLKY, TR IMBD FOSS FRAG IP, DLL YEL MIN FLO THRU, NO VIS POR, NO VIS CUT OR SHOW

HEEBNER 3491' (-1075')

SH - LT GY TO GY GRN MOTT, V FRM TO SFT IP, BLKY SMTH TXT, SLI TR PYR IN TRAY

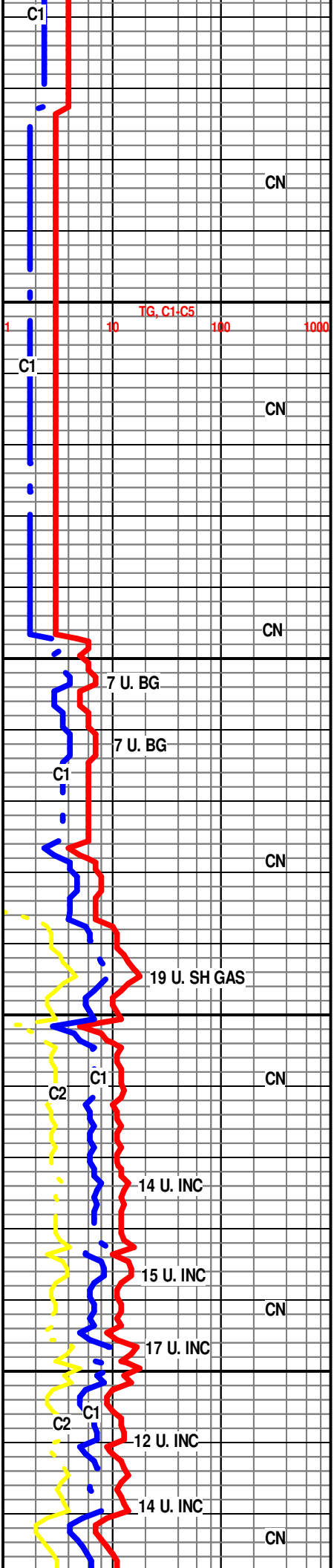
3520'-3523' LS - OFF WHT TO CRM (W/TN TO DRK TN OIL STN IN 50-60%) HD DNS TO BRTT, MD-XLN RE-XLN, S-SUCRO, ABDT IMBD FOSS FRAG THRU, TR IMBD CLR CHRT, DLL YEL TO YEL GLD FLO IN 70%, SPTTD BRGT YEL GLD FLO IP, PR TO FR INTER-FOSS POR IN 2%, TR FR MICRO VUG POR IP, GD INST FL SH CUT, GD TO EXCEL SLOW STRM THRU, DK TN LCH ON DISH, GD OIL ODOR

LANSING 3533' (-1117')

3535'-3537' LS - LT TN TO TN (DUE TO OIL STN SCATT IN 30%) HD DNS TO TR BRTT IP, MD/F-XLN, S-CHLKY, SCAT IMBD SM OOL, DISS PYR THRU, TR IMBD GLAUC IP, HVY TR SFT WHT CHLK IN TRAY, DLL YEL FLO IN 20%, V PR MICRO VUG POR IP, FR FL SH CUT, GD SLOW STRM IN 40%, LT TN LCH ON DISH, NO OIL ODOR

LANSING "B" ZONE 3563' (-1147')

3564' -3567' LS - WHT TO OFF WHT (W/ DRK TN TO BRWN OIL STN IN 30% & LIVE OIL STN IN 10%) HD DNS TO BRTT, MD-XLN RE-XLN MTRX, S-SUCRO, IMBD SM/MD OOL THRU, TR IMBD S-ANG CLR QRTZ GRNS IP, ABDT GY & CLR CHRT IN TRAY, YEL GLD TO BRT YEL GLD FLO IN 50%, FR TO TR GD INTER-OOL POR IN 4%, TR PR MICRO VUG POR IP, FR FL SH CUT, GD SLOW STRM THRU, DRK TN TO BRWN LCH ON DISH, NO OIL ODOR



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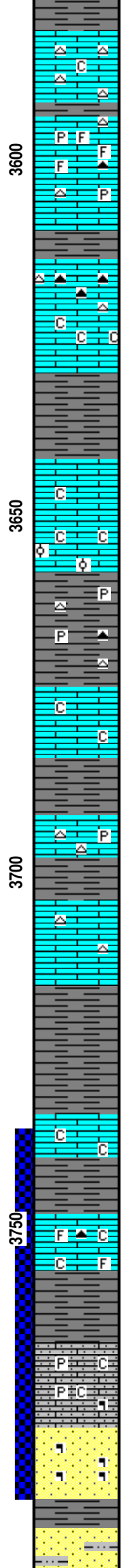
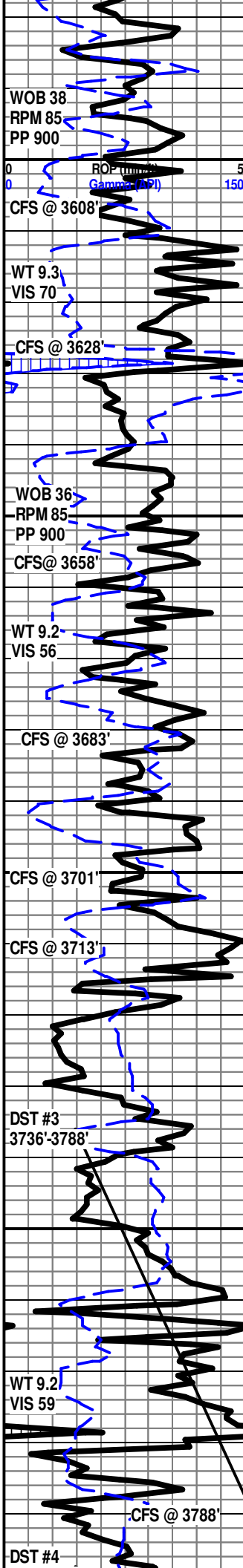
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3584'-3586' LS - WHT TO OFF WHT(W/ BLK TAR OIL STN IN 10-20%) HD DNS TO BRTT, F/MD-XLN, VS-CHLKY, ABDT SFT WHT CHLK THRU TRAY, HVY TR CLR CHRT, LT TR IMBD SFT WHT CHLK, SPTTD YEL FLO IP, V PR INTER-XLN POR IP, FR FL SH CUT, GD SLOW STRM IN 20%, NO LCH ON DISH, NO OIL ODOR

3604'-3607' LS - CRM TO OFF WHT(W/ DRK TN TO TN OIL STN IN 30%) HD DNS TO BRTT IP, MD-XLN RE-XLN, S-SUCRO IP, ABDT IMBD FOSS FRAG THRU, LT TR CLR TO GY CHRT, IMBD SM CALC-XLS IP, SLI TR IMBD PYR, YEL GLD FLO IN 40%, PR TO FR INTER-FOSS POR IN 2%, FR MICRO VUG POR IN 1%, FR FL SH CUT, FR TO GD SLOW STRM IN 30%, TN LCH ON DISH, LT OIL ODOR

LS - OFF WHT TO CRM, V HD DNS, VF/F-XLN, S-CHLKY, ABDT CLR & ORNG CHRT THRU TRAY, HVY TR SFT WHT CHLK IN TRAY, SLI TR PYR, V DLL YEL MIN FLO IN 40%, NO VIS POR, NO VIS CUT OR SHOW

LANSING "F" SHALE 3630'(-1214')

LS - OFF WHT TO CRM, HD DNS TO BRTT IP, F/MD-XLN, S-CHLKY, HVY TR SFT WHT CHLK THRU, SCAT IMBD OOL IP, DLL YEL MIN FLO IP, NO VIS POR, NO VIS CUT OR SHOW

LANSING "G" 3675' (-1259')

3679'-3681' LS - OFF WHT TO WHT (W/ TN OIL STN SCATT IN 30%) HD DNS, F/VF-XLN, S-SUCRO IP, IMBD SM S-ANG CLR QRTZ GRNS IP, TR SFT WHT CHLK IN TRAY, DLL YEL TO YEL GLD FLO IN 30%, V PR TO PR INTER-XLN POR IN 1%, PR TO FR FL SH CUT, GD SLOW STRM IN 40%, NO LCH ON DISH, NO OIL ODOR

LS - WHT TO OFF WHT CRM IP, HD DNS, VF-XLN, CRYPTO-XLN IP, S-CHLKY IP, LT TR CLR & WHT CHRT IN TRAY, SLI TR PYR, V DLL YEL TO DLL YEL MIN FLO IN 30%, NO VIS POR, NO VIS CUT OR SHOW

LS - CRM TO OFF WHT WHT, HD DNS, VF-XLN, S-CHLKY IP, TR WHT CHRT IN TRAY, LT TR IMBD RD SH IP, TR V DLL YEL MIN FLO IP, NO VIS POR, NO CUT OR SHOW

BKC 3715' (-1299')

SH - RD TO GRN MOTT, V SFT TO GMMY, V SLTY TXT, LS - WHT TO OFF WHT, HD DNS, F/VF-XLN, S-CHLKY, IMBD RD SH IP, LT TR SFT WHT CHLK IN TRAY, DLL YEL FLO IP, NO VIS POR, NO VIS CUT OR SHOW

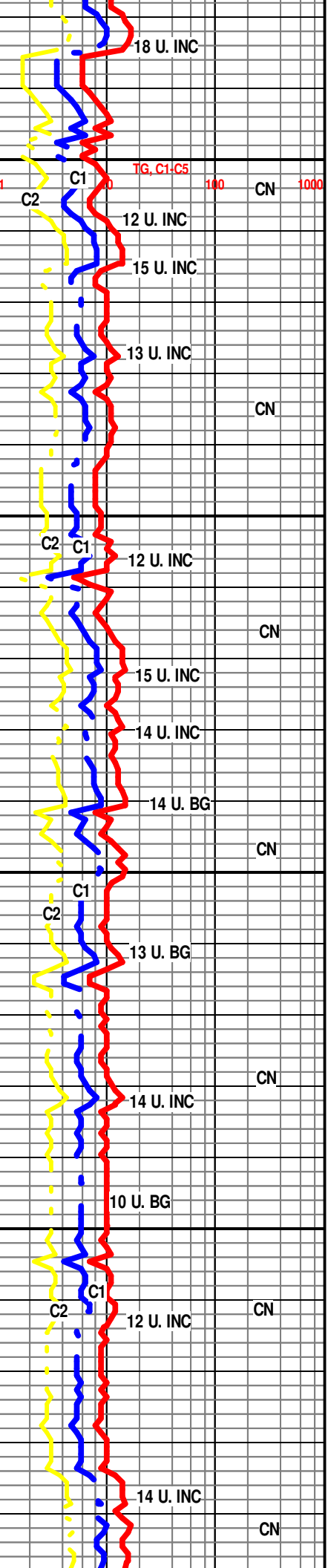
LS - WHT TO OFF WHT, V HD DNS, VF/F-XLN, S-CHLKY, HVY TR SFT WHT CHLK, IMBD FOSS FRAG IP, TR ORNG CHRT IN TRAY, V DLL YEL FLO IN 40%, NO VIS POR, NO VIS CUT OR SHOW

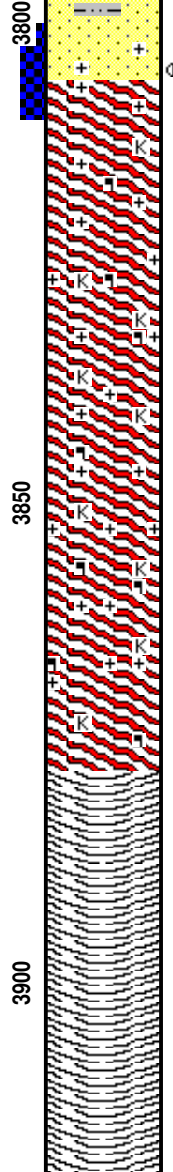
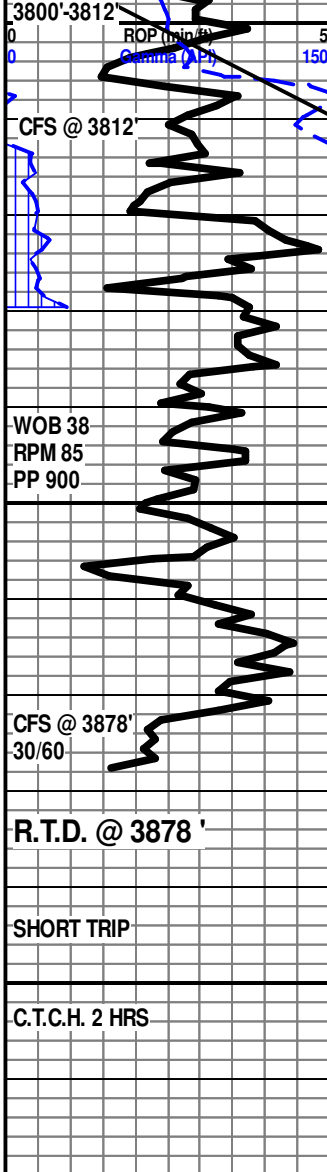
GORHAM SAND 3781' (-1365')

3770'-3774' LS - WHT TO OFF WHT(LT TN OIL STN IN 20%), HD DNS, ABDT IMBD F/MD QRTZ GRNS THRU, S-ANG TO S-RND, PR TO FR SRT, CLR TO TR FRSTY S-RND QRTZ GRNS, IMBD SFT WHT CHLK THRU, LT TR PYR, DLL YEL FLO IN 10%, PR TO TR FR INTER-GRN POR IN 3%, EXCEL INST FL SH CUT, EXCEL SLOW STRM IN 30%, TN LCH ON DISH, NO OIL ODOR

3781'-3783' SS - PRED UNCSLTD GRNS, CRS TO PBBL SIZE GRNS, S-RND TO S-ANG FRSTY TO CLR QRTZ GRNS, TR ANG GRNS, PR TO FR TR SRT, IMBD BIOTITE IP, TR SPTTD YEL GLD FLO IP, FR TO GD FL SH CUT, EXCEL SLOW STRM IN 40%, TN LCH ON DISH, FREE FLOATING OIL IN TRAY, NO OIL ODOR

3784'-3786' SS - CLR TO FRSTY(W/ LIVE OIL STN IN 40%), TT TO FRI IP, MD CRS SIZE GRNS, ANG TO S-ANG TR RND QRTZ GRNS, PR TO TR FR SRT, HVY TR MIN, V DLL YEL FLO IN 20%, FR TO TR GD INTER-GRAN POR IN 4%, EXCEL INST FL SH CUT, EXCEL SLOW STRM MLKY BLU CUT, TN LCH ON DISH, NO OIL ODOR





3803'-3806' SS - CLR TO FRSTY(W/ BLK TAR OIL STN IN 30% & TR LIVE OIL IN TRAY), TT TO V FRI, VF/F/CRS S-RND TO RND QRTZ GNS, FR TO WLL SRT, SIL CMNT GRDING TO CALC CMNT IP, HVY TR MICA, TR FELDSPR, NO VIS FLO, GD FLSH CUT, FR SLOW STRM IN 20%, LT TN LCH ON DISH, NO OIL ODOR

GRANITE 3806' (-1390')

3806'-3812' GRANITE - DRK RD TO RD ORGN & PNK, HD DNS, ANG TO S-ANG, MOSAIC OF FELDSPR, ABDT IMBD BIOTITE, TR HEMATITE, LT TR CLR QRTZ GRNS, TR CLAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

3816'-3826' GRANITE - RD PNK ORNG YEL, HD DNS, ANG TO S-RND GRNS, MOSAIC OF FELDSPR, IMBD BIOTITE KAOLINITE HEMATITE, TR CLR QRTZ GRNS, TR INTER-BED GRN SH, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

3826'-3836' GRANITE - DRK RD TO RD PNK ORNG IP, HD DNS, S-ANG GRNS, MOSAIC OF FELDSPR, IMBD BIOTITE, TR IMBD KAOLINITE, TR IMBD CLAY, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

3836'-3646' GRANITE - ORNG RD PNK, HD DNS, S-ANG GRNS, MOSIAC OF FELDSPR, ABDT IMBD BIOTITE, HVY TR IMBD HEMATITE & KAOLINITE, TR CLR QRTZ GRNS, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

R.T.D. @ 11:50 AM 4/15/2014

DROP SURVEY

T.O.F.L. @ 1:10PM

WEATHERFORD/LIBERAL, KS.

