



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1163308
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: _____



1163308

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
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
---	--	--

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	JOHN HENRY 1-26
Doc ID	1163308

All Electric Logs Run

INDUCTION
MICRO
POR
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

October 16, 2013

CLAYTON CAMOZZI
Samuel Gary Jr. & Associates, Inc.
1515 WYNKOOP, STE 700
DENVER, CO 80202

Re: ACO1
API 15-137-20656-00-00
JOHN HENRY 1-26
SE/4 Sec.26-04S-23W
Norton 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,
CLAYTON CAMOZZI



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: 6/27/2013
 Invoice # ~~101574521~~ 7957

P.O.#:
 Due Date: 7/27/2013
 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:
 JOHN HENRY 1-26

Description of Work:
 LONG SURFACE JOB

RECEIVED
JUL 03 2013
SAMUEL GARY JR.
& ASSOCIATES, INC.

DRLG COMP W/O LOE GG

Account	8200-138
Well/Prospect	
Deck	
AFE	
Approval	<i>SGJ</i>
Description	

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 991.39	No				
Common-Class A	275	\$ 3,744.09	Yes				
8 5/8" Basket	2	\$ 686.17	Yes				
Bulk Truck Matl-Material Service Charge	291	\$ 631.89	No				
Calcium Chloride	10	\$ 517.45	Yes				
Pump Truck Mileage-Job to Nearest Camp	51	\$ 552.61	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	51	\$ 323.37	No				
8 5/8" Centralizer	2	\$ 138.97	Yes				
8 5/8" Top Rubber Plug	1	\$ 115.09	Yes				
Premium Gel (Bentonite)	6	\$ 106.05	Yes				
Baffle Plate Aluminum, 8 5/8"	1	\$ 97.71	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 7,904.78
Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,185.72)

SubTotal for Taxable Items:	\$ 4,594.70
SubTotal for Non-Taxable Items:	\$ 2,124.36
Total:	\$ 6,719.06
Tax:	\$ 323.93

7.05% Norton County Sales Tax

Thank You For Your Business!

Amount Due: \$ 7,042.99
Applied Payments:
Balance Due: \$ 7,042.99

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. 7957

Date	6- ²⁷ 28 -13	Sec.	26	Twp.	4	Range	23	County	Worton	State	KS	On Location		Finish	12:30 10:30 6-27-13
------	------------------------------------	------	----	------	---	-------	----	--------	--------	-------	----	-------------	--	--------	-----------------------------------

Location New 9283 3N 1/2E Winto

Lease John Henry Well No. 1-26 Owner

Contractor Division #2 To Quality Oilwell Cementing, Inc.

Type Job Surface You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Hole Size 12 1/4 T.D. 563 Charge To Sam Cary Jr & Assoc.

Csg. 8 5/8 Depth 563 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. 42.21 Shoe Joint 42.21 Cement Amount Ordered 275 Gm 3" 2" 2" 2"

Meas Line Displace 33 1/4 BCL

EQUIPMENT Common 275

Pumptrk	17	No.	Cement	<u>Craig</u>											
			Helper	<u>Cody</u>											
Bulktrk		No.	Driver	<u>Heath</u>											
Bulktrk	14	No.	Driver												

Poz. Mix

Gel. 6

Calcium 10

JOB SERVICES & REMARKS Hulls

Remarks: Salt

Rat Hole Flowseal

Mouse Hole Kol-Seal

Centralizers Mud CLR 48

Baskets CFL-117 or CD110 CAF 38

D/V or Port Collar Sand

8 5/8 on bottom. Est. Circulation Mix Handling 291

275 Gm & Displace Plug Mileage

Cement Circulated: FLOAT EQUIPMENT

Plug landed @ 800'. Guide Shoe 8 5/8

Shot in @ 500'. Centralizer 2

Baskets 2

AFU Inserts Roller Plate

Float Shoe Roller Plug

Latch Down

Pumptrk Charge Long Surface

Mileage 51

Signature James P. Pinner

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: 7/3/2013
 Invoice # 7407

P.O.#:

Due Date: 8/2/2013

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 12 2013

SAMUEL GARY JR.
 & ASSOCIATES, INC.

Reference:

TUZIKA 1-12 *John Henry 1-26*

<input type="checkbox"/> DRLG <input type="checkbox"/> COMP <input type="checkbox"/> W/O <input type="checkbox"/> LOE <input type="checkbox"/> GG	
Account	8300.238
Well/Prospect	
Deck	
AFE	
Approval	AB
Description	

Description of Work:
 PROD LONG STRING

Services / Items Included:

Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor	\$ 991.39	No	Defoamer A or CAF-38	50	\$380.00	Yes
Common-Class A	\$ 3,063.34	Yes	Auto Fill Float Shoe, 5 1/2"	1	\$332.23	Yes
Cement Port Collar, 5 1/2"	\$ 2,714.29	Yes	Bulk Truck Mileage-Job to Nearest Bulk Plant	51	\$323.37	No
Gilsonite	\$ 1,721.40	Yes	Salt (Fine)	19	\$287.97	Yes
5 1/2" Basket	\$ 1,498.29	Yes	Latch Down Plug & Baffle, 5 1/2"	1	\$243.20	Yes
CFL 117	\$ 1,177.09	Yes	Flo Seal	56	\$121.60	Yes
5 1/2" Turbolizer	\$ 755.66	Yes	Rotating Head (4 1/2", 5 1/2", or 2 7/8")	1	\$39.09	No
Pump Truck Mileage-Job to Nearest Camp	\$ 552.61	No				
Bulk Truck Matl-Material Service Charge	\$ 551.54	No				
CD-110	\$ 508.11	Yes				
Mud Clear	\$ 401.71	Yes				

Invoice Terms:

Net 30

SubTotal:	\$ 15,662.88
Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:	\$ (2,349.43)
SubTotal for Taxable Items:	\$ 11,224.16
SubTotal for Non-Taxable Items:	\$ 2,089.29
Total:	\$ 13,313.45
Tax:	\$ 791.30

7.05% Norton County Sales Tax

Thank You For Your Business!

Amount Due: \$ 14,104.75
Applied Payments:
Balance Due: \$ 14,104.75

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. 7407

Date 7-3-13	Sec. 26	Twp. 4	Range 23	County Norton	State KS	On Location	Finish 19:15
				Location Hill City N to Hwy 19 2 W 3 N 1/2 E			

Lease John Henry	Well No. 1-26	Owner
Contractor Discovery 2		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Type Job long string		
Hole Size 7 7/8	T.D. 3860	Charge To Sam Gary Jr. & Associates
Csg. 5 1/2 15.5 #	Depth 3856.61	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. 45.05	Shoe Joint 45.05	Cement Amount Ordered 225 G-pro-C 10% sult 5%
Meas Line	Displace 90 1/2 bbl	gilconite 1/4 flow 20 bbl KCL 3% CD 110

EQUIPMENT

Pumptrk 15 No.	Cementer Helper Brett	Poz. Mix
Bulktrk 14 No.	Driver Billy	Gel.
Bulktrk P4 No.	Driver Travis	Calcium

JOB SERVICES & REMARKS

Remarks:	Salt 19
Rat Hole 30SX	Flowseal 56
Mouse Hole 30SX	Kol-Seal 1057
Centralizers 1, 3, 5, 7, 9, 11, 13, 15, 46, 48, 63, 75	Mud CLR 48 500 gal
Baskets 4, 10, 16, 5' x 47, 64, 76	CFL-117 or CD110 CAF 38 - 50#
D/V or Port Collar Top of 47	Sand 176#
pipe on bottom broke circulation dumped 500gal Mud CLR 48 with 10 bbl fw behind it plugged Rat hole with 30sx and Mouse hole with 15sx hooked to 5 1/2 mixed 180sx shutdown washed pump and lines Released plug and displaced with 90 1/2 bbl fw plug landed and held	Handling 254
lift pressure at 1100 psi	Mileage

FLOAT EQUIPMENT

plug landed at 1700 psi	Guide Shoe
	Centralizer 12
	Baskets 3 Reg. 3 wetherford
	AFU Inserts
	Float Shoe 1 with ball
	Latch Down 1 with plug
	1 port collar
	Pumptrk Charge prod long string
	Mileage 51

X Signature	Tax
	Discount
	Total Charge



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

Date: 7/11/2013
 Invoice # 7978

P.O.#:
 Due Date: 8/10/2013
 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 18 2013

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

DRLG COMP W/O LOE GG

Account	8300.23X
Well/Prospect	
Deck	
APP	
Approval	JB
Description	

Reference:
 JOHN HENRY 1-26

Description of Work:
 PORT COLLAR JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 991.39	No				
mon, MetsoBeads, Plater, Gel, FloSeal, Calcium)	200	\$ 4,151.77	Yes				
Bulk Truck Matl-Material Service Charge	300	\$ 651.43	No				
Pump Truck Mileage-Job to Nearest Camp	51	\$ 552.61	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	51	\$ 323.37	No				
Flo Seal	75	\$ 162.86	Yes				

Invoice Terms:

Net 30

	SubTotal:	\$	6,833.42
	Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:	\$	(1,025.01)
<hr/>			
	SubTotal for Taxable Items:	\$	3,667.43
	SubTotal for Non-Taxable Items:	\$	2,140.97
<hr/>			
	Total:	\$	5,808.41
	Tax:	\$	258.55
<hr/>			
	Amount Due:	\$	6,066.96
	Applied Payments:		
	Balance Due:	\$	6,066.96

7.05% 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. 7978

Date	7-11-13	Sec.		Twp.		Range		County	Norton	State	KS	On Location		Finish	11:15 A.M.
Location <i>Surf 94 Norton 3N 1E Ninto</i>															
Lease	<i>John Henry</i>			Well No.	1-26			Owner							
Contractor	<i>Alliance</i>			To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.											
Type Job	<i>Port collar</i>			Charge To <i>Sam Coody Jr + Associates</i>											
Hole Size	<i>7 7/8</i>			T.D.											
Csg.	<i>5 1/2</i>			Depth											
Tbg. Size	<i>2 7/8</i>			Depth											
Tool	<i>Port Collar</i>			Depth	<i>1906</i>			The above was done to satisfaction and supervision of owner agent or contractor.							
Cement Left in Csg.				Shoe Joint	Cement Amount Ordered <i>300 Qmuc 1/4#F10</i>										
Meas Line				Displace	<i>USED 180 200 Qmuc x 4 GEL</i>										
EQUIPMENT															
Pumptrk	<i>17</i>	No.	Cementer	<i>raig</i>	Common <i>200 Qmuc</i>										
			Helper		Poz. Mix										
Bulktrk		No.	Driver	<i>Coody</i>	Gel.										
			Driver		Calcium										
Bulktrk	<i>13</i>	No.	Driver	<i>Heath</i>	Hulls										
			Driver		Salt										
JOB SERVICES & REMARKS															
Remarks:	Remarks:														
Rat Hole	Flowseal <i>75#</i>														
Mouse Hole	Kol-Seal														
Centralizers	Mud CLR 48														
Baskets	CFL-117 or CD110 CAF 38														
D/V or Port Collar	Sand														
<i>Test 5 1/2 to 1000' Run test</i>															
<i>+ mix 4 gel x 200 Qmuc cement. Displace</i>															
<i>9 BL + cement circulated</i>															
<i>Close tool test to 1000' Run</i>															
<i>5 joints + wash clean.</i>															
FLOAT EQUIPMENT															
Handling <i>300</i>															
Mileage															
Guide Shoe															
Centralizer															
Baskets															
AFU Inserts															
Float Shoe															
Latch Down															
Pumptrk Charge <i>port collar</i>															
Mileage <i>51</i>															
Tax															
Discount															
Total Charge															
Signature <i>[Signature]</i>															



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samual Gary Jr. & Associates

26-4s-23w

1515 Wynkoop St. Ste 700
Denver Co 80202

John Henry 1-26

Job Ticket: 50691

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2013.06.30 @ 15:37:00

GENERAL INFORMATION:

Formation: **LANA**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:40:45

Time Test Ended: 22:44:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Wilbur Steinbeck

Unit No: 44

Interval: 3464.00 ft (KB) To 3488.00 ft (KB) (TVD)

Reference Elevations: 2351.00 ft (KB)

Total Depth: 3488.00 ft (KB) (TVD)

2343.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8353 Outside

Press @ Run Depth: 37.42 psig @ 3465.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.06.30

End Date: 2013.06.30

Last Calib.: 2013.06.30

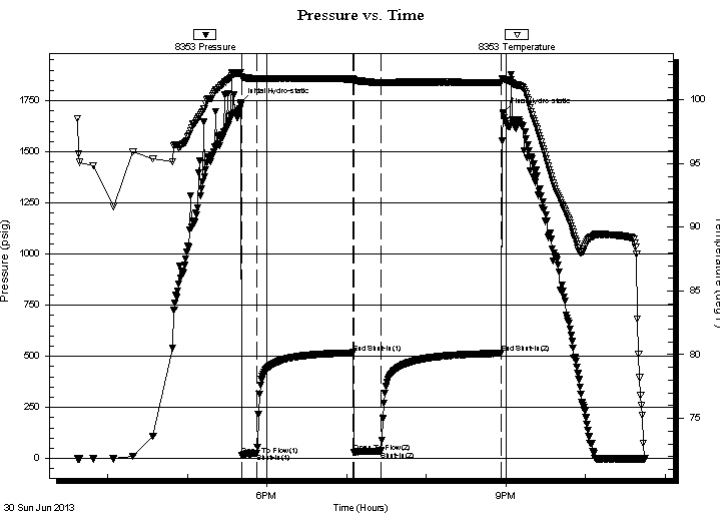
Start Time: 15:37:15

End Time: 22:44:45

Time On Btm: 2013.06.30 @ 17:40:15

Time Off Btm: 2013.06.30 @ 20:57:45

TEST COMMENT: 10 IF; Built to 1 1/2"
75 IS; No Blow
20 FF; Surface blow
90 FS; No Blow



PRESSURE SUMMARY

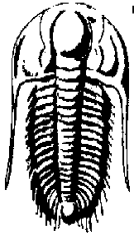
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1740.19	102.16	Initial Hydro-static
1	17.49	101.81	Open To Flow (1)
12	26.41	101.66	Shut-In(1)
85	517.77	101.63	End Shut-In(1)
85	29.23	101.50	Open To Flow (2)
106	37.42	101.34	Shut-In(2)
196	515.11	101.36	End Shut-In(2)
198	1693.41	101.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	mud	0.29

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samual Gary Jr. & Associates

26-4s-23w

1515 Wynkoop St. Ste 700
Denver Co 80202

John Henry 1-26

Job Ticket: 50691

DST#: 1

ATTN: Clayton Camozzi

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GENERAL INFORMATION:

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Unit No: 44

Interval: **3464.00 ft (KB) To 3488.00 ft (KB) (TVD)**

Reference Elevations: 2351.00 ft (KB)

Total Depth: 3488.00 ft (KB) (TVD)

2343.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8652 Fluid

Press @ Run Depth: psig @ 3435.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.06.30 End Date: 2013.06.30

Last Calib.: 2013.06.30

Start Time: 15:38:00 End Time: 22:44:30

Time On Btm:

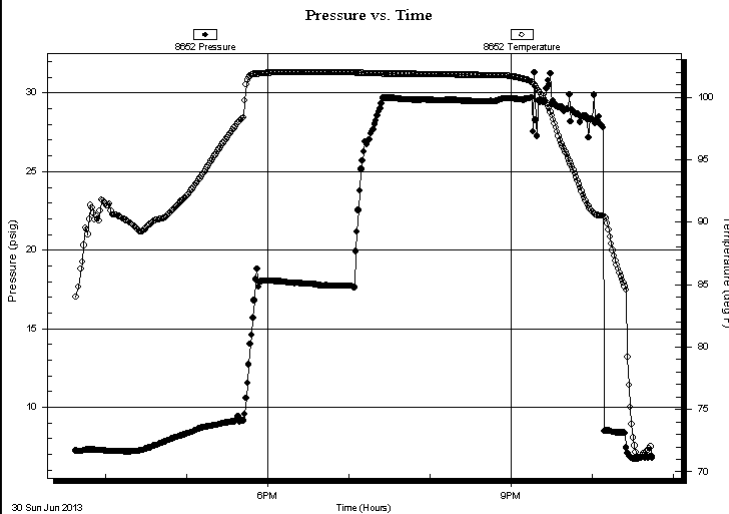
Time Off Btm:

TEST COMMENT: 10 IF; Built to 1 1/2"

75 IS; No Blow

20 FF; Surface blow

90 FS; No Blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
40.00	mud	0.29

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samual Gary Jr. & Associates

26-4s-23w

1515 Wynkoop St. Ste 700
Denver Co 80202

John Henry 1-26

Job Ticket: 50691

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2013.06.30 @ 15:37:00

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: 55.00 sec/qt

Cushion Volume: bbl

Water Loss: 7.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	mud	0.288

Total Length: 40.00 ft Total Volume: 0.288 bbl

Num Fluid Samples: 0

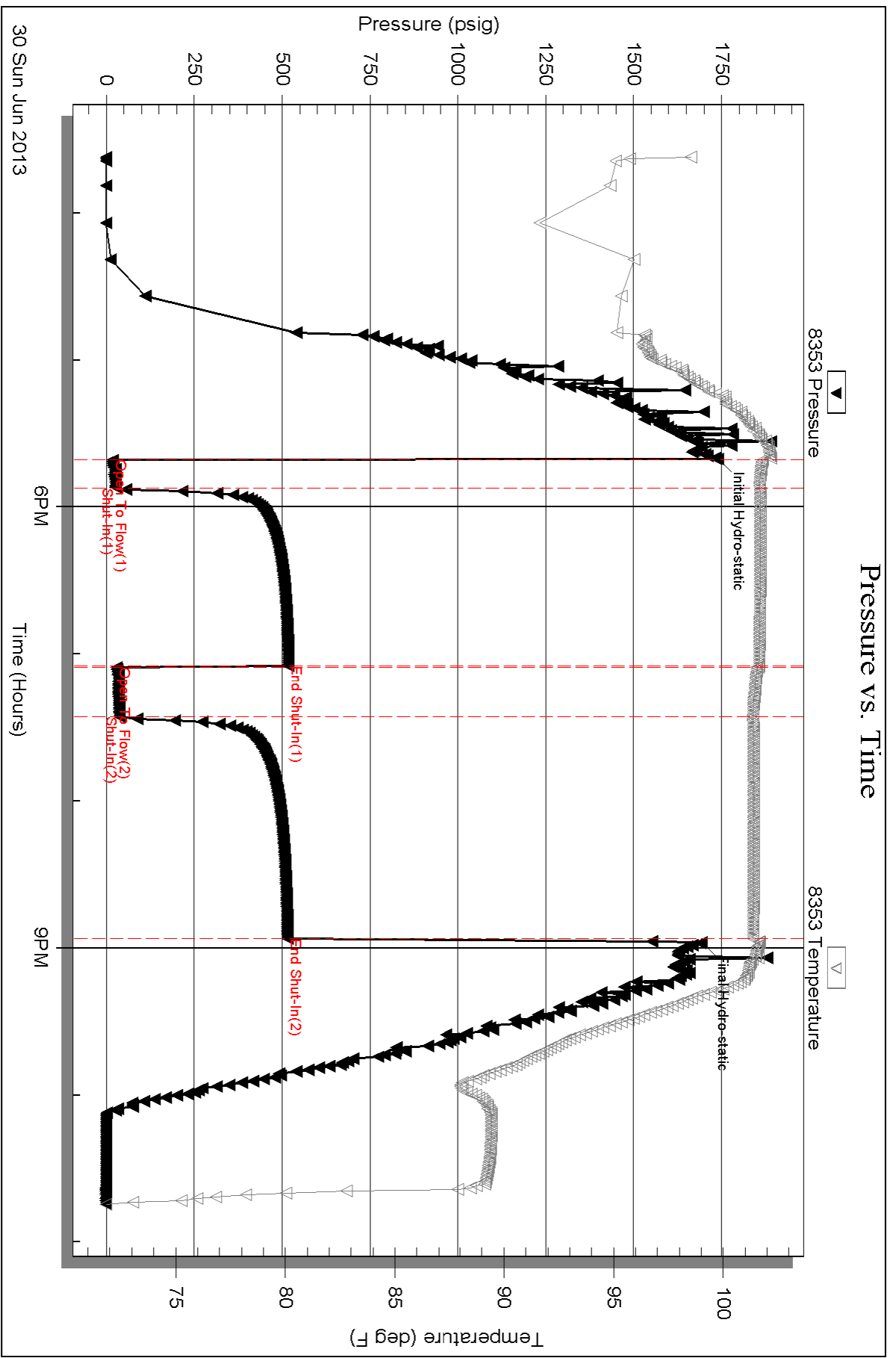
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



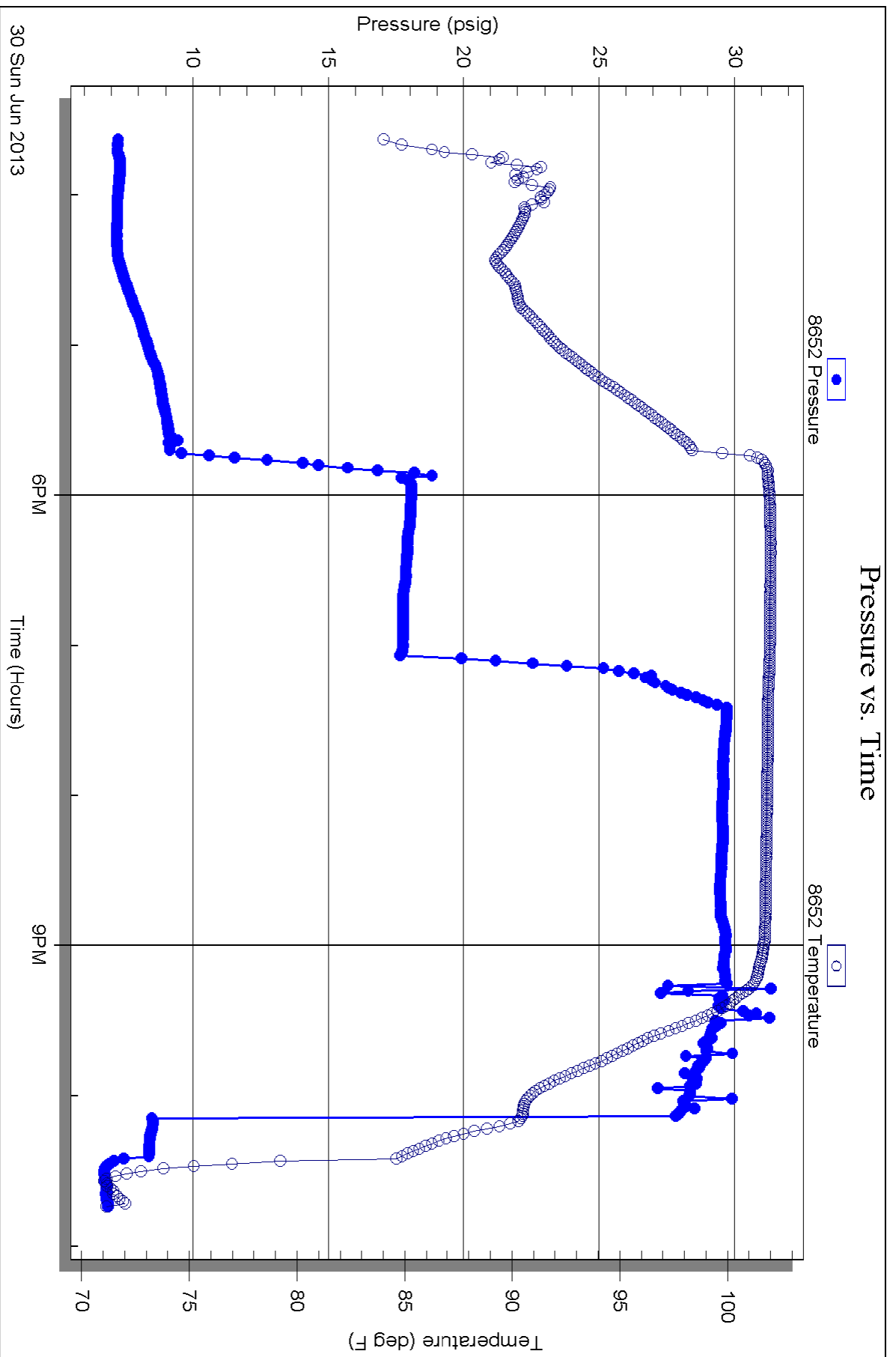
Serial #: 8652

Fluid

Samual Gary Jr. & Associates

John Henry 1-26

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 50691

Printed: 2013.06.30 @ 23:41:31



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samual Gary Jr. & Associates

26-4s-23w

1515 Wynkoop St. Ste 700
Denver Co 80202

John Henry 1-26

Job Ticket: 50692

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2013.06.30 @ 15:37:00

GENERAL INFORMATION:

Formation: **Gorham Sands**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended:

Test Type: Conventional Bottom Hole (Reset)

Tester: Wilbur Steinbeck

Unit No: 44

Interval: 3699.00 ft (KB) To 3748.00 ft (KB) (TVD)

Reference Elevations: 2351.00 ft (KB)

Total Depth: 3748.00 ft (KB) (TVD)

2343.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8353 Outside

Press @ Run Depth: psig @ 3700.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.07.01

End Date:

2013.07.02

Last Calib.:

2013.07.02

Start Time:

22:20:15

End Time:

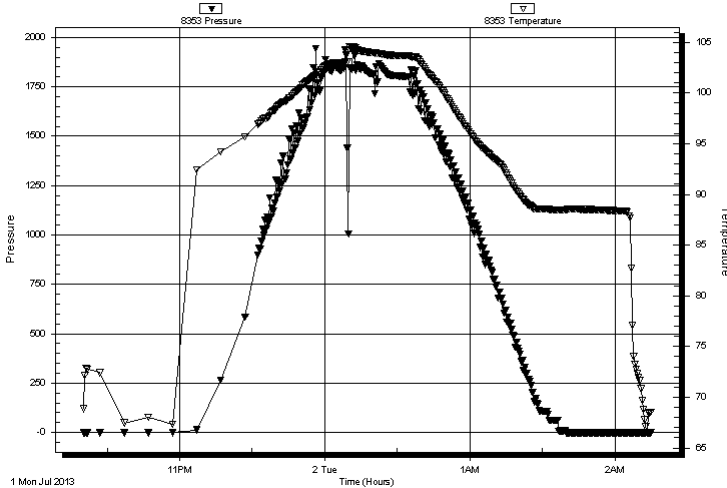
02:15:00

Time On Btm:

Time Off Btm:

TEST COMMENT: Mis-run

Pressure vs. Time



PRESSURE SUMMARY

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

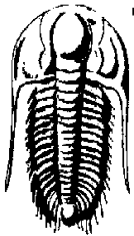
Recovery

Length (ft)	Description	Volume (bbl)
0.00	miss run	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samual Gary Jr. & Associates

26-4s-23w

1515 Wynkoop St. Ste 700
Denver Co 80202

John Henry 1-26

ATTN: Clayton Camozzi

Job Ticket: 50692

DST#: 2

Test Start: 2013.06.30 @ 15:37:00

GENERAL INFORMATION:

Formation: **Gorham Sands**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended:

Interval: **3699.00 ft (KB) To 3748.00 ft (KB) (TVD)**

Total Depth: 3748.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)

Tester: Wilbur Steinbeck

Unit No: 44

Reference Elevations: 2351.00 ft (KB)

2343.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8652 Fluid

Press @ Run Depth: psig @ 3670.00 ft (KB)

Start Date: 2013.07.01

End Date:

2013.07.02

Start Time: 22:21:00

End Time:

02:14:30

Capacity: 8000.00 psig

Last Calib.:

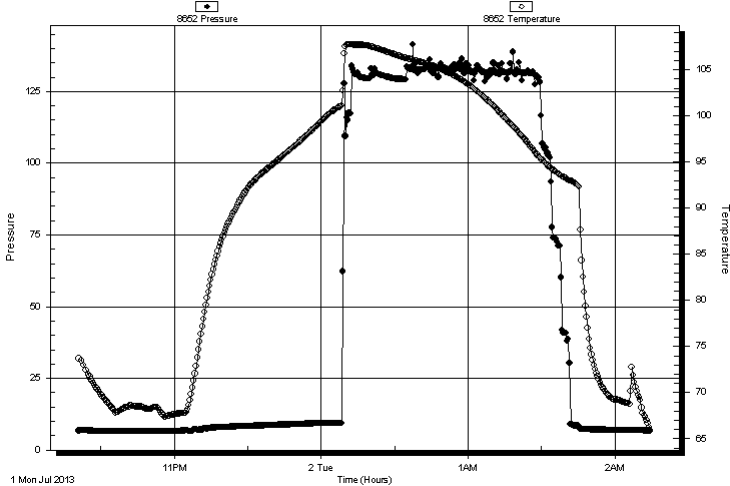
2013.07.02

Time On Btm:

Time Off Btm:

TEST COMMENT: Mis-run

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	miss run	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samual Gary Jr. & Associates

26-4s-23w

1515 Wynkoop St. Ste 700
Denver Co 80202

John Henry 1-26

Job Ticket: 50692

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2013.06.30 @ 15:37:00

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: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	miss run	0.000

Total Length: ft Total Volume: bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

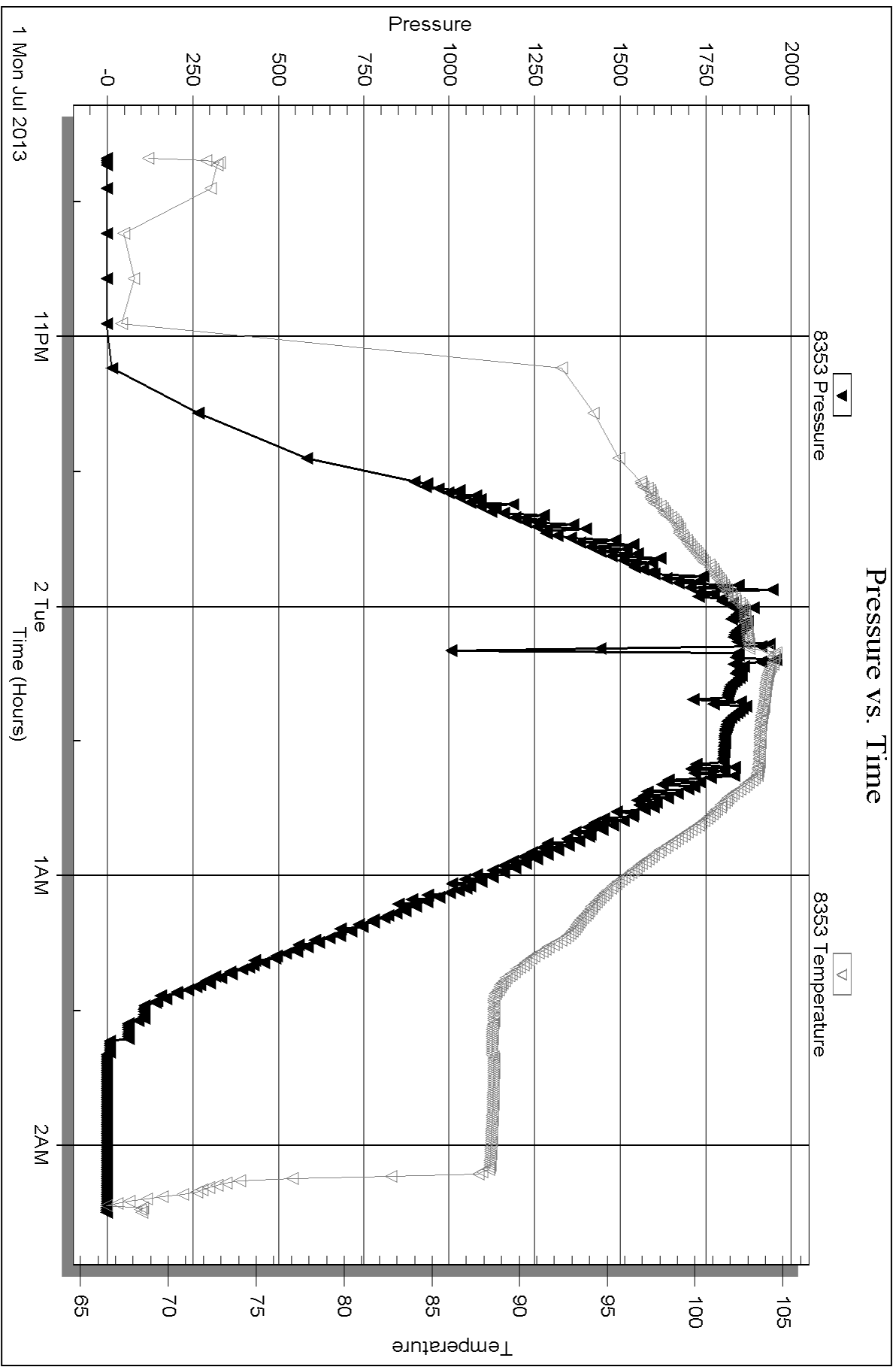
Recovery Comments: Packer Failure Attempted to set packers tw ice.

Serial #: 8353

Outside Samuel Gary Jr. & Associates

John Henry 1-26

DST Test Number: 2



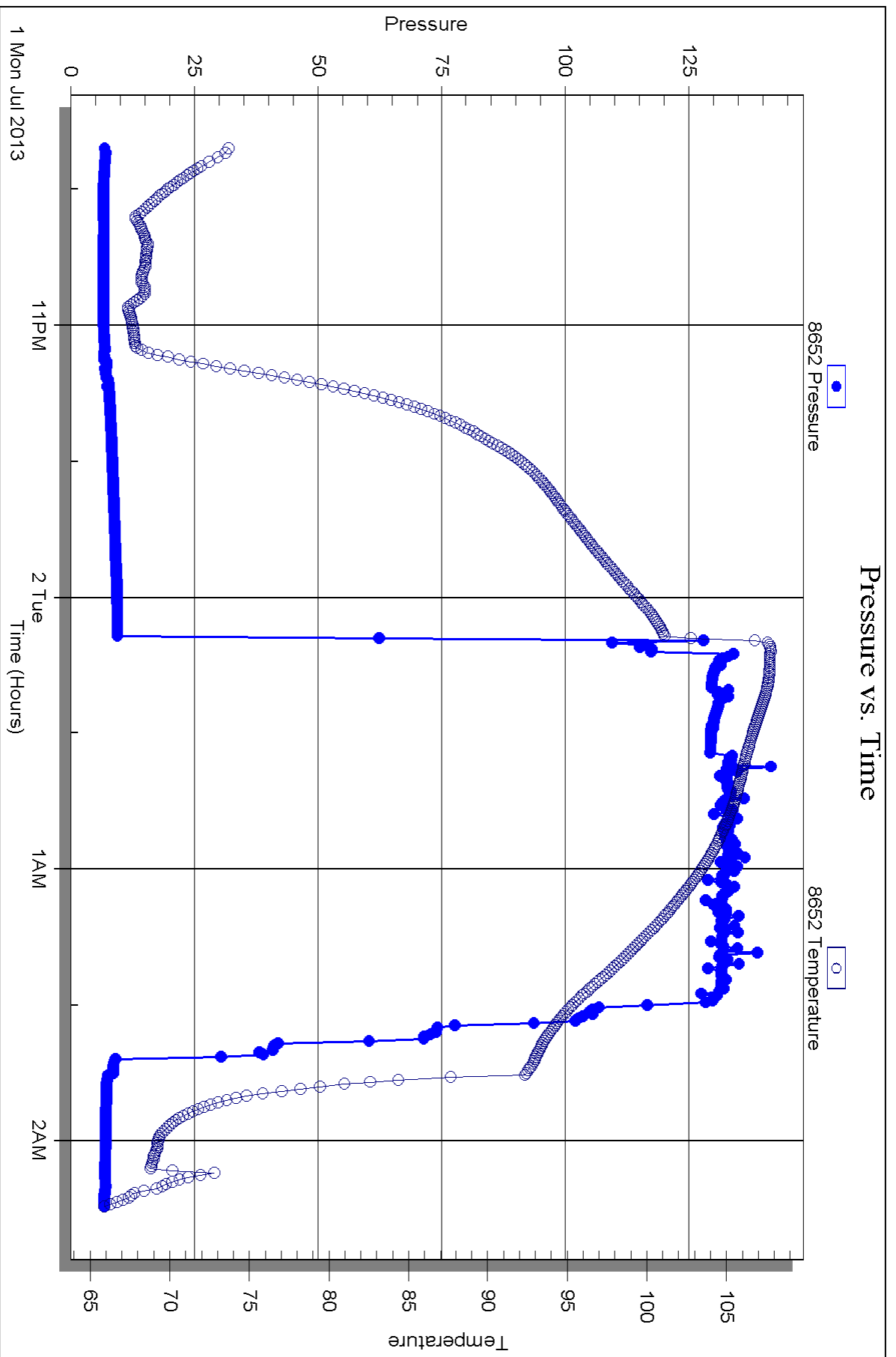
Serial #: 8652

Fluid

Samual Gary Jr. & Associates

John Henry 1-26

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 50692

Printed: 2013.07.02 @ 13:46:38



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samual Gary Jr. & Associates

26-4s-23w

1515 Wynkoop St. Ste 700
Denver Co 80202

John Henry 1-26

Job Ticket: 50693

DST#: 3

ATTN: Clayton Camozzi

Test Start: 2013.07.02 @ 02:42:00

GENERAL INFORMATION:

Formation: **Gorham Sands**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:11:15

Time Test Ended: 10:25:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Wilbur Steinbeck

Unit No: 44

Interval: 3684.00 ft (KB) To 3748.00 ft (KB) (TVD)

Reference Elevations: 2351.00 ft (KB)

Total Depth: 3748.00 ft (KB) (TVD)

2343.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8353 Outside

Press @ Run Depth: 124.62 psig @ 3685.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.07.02

End Date: 2013.07.02

Last Calib.: 2013.07.02

Start Time: 02:42:15

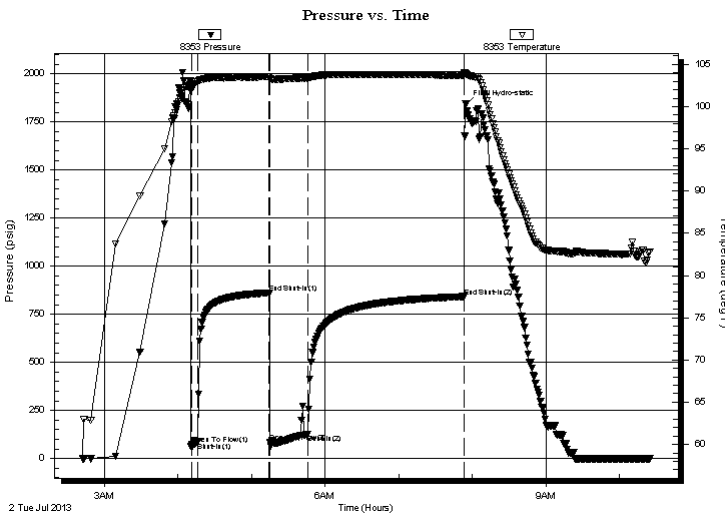
End Time: 10:25:15

Time On Btm: 2013.07.02 @ 04:10:30

Time Off Btm: 2013.07.02 @ 07:54:45

TEST COMMENT: 5 IF; Built to 5 1/2"
60 ISI; No Blow
30 FF; BOB in 14 min
120 FSI; Built to 2"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1912.71	102.71	Initial Hydro-static
1	73.42	102.51	Open To Flow (1)
6	86.68	102.99	Shut-In(1)
64	861.50	103.53	End Shut-In(1)
65	82.67	103.23	Open To Flow (2)
96	124.62	103.39	Shut-In(2)
223	842.21	103.72	End Shut-In(2)
225	1841.58	103.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	GMCO 10%G 45%M 45%O	1.41
190.00	OG 30%G 70%O	2.67

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samual Gary Jr. & Associates

26-4s-23w

1515 Wynkoop St. Ste 700
Denver Co 80202

John Henry 1-26

Job Ticket: 50693

DST#: 3

ATTN: Clayton Camozzi

Test Start: 2013.07.02 @ 02:42:00

GENERAL INFORMATION:

Formation: **Gorham Sands**

Deviated: No Whipstock: ft (KB)

Test Type: Conventional Bottom Hole (Reset)

Time Tool Opened: 04:11:15

Tester: Wilbur Steinbeck

Time Test Ended: 10:25:15

Unit No: 44

Interval: **3684.00 ft (KB) To 3748.00 ft (KB) (TVD)**

Reference Elevations: 2351.00 ft (KB)

Total Depth: 3748.00 ft (KB) (TVD)

2343.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8652 Fluid

Press @ RunDepth: psig @ 3655.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.07.02 End Date: 2013.07.02

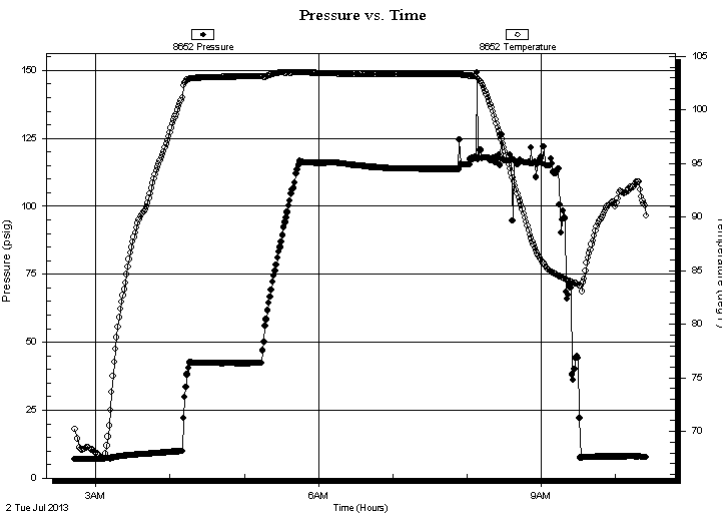
Last Calib.: 2013.07.02

Start Time: 02:43:00 End Time: 10:25:00

Time On Btm:

Time Off Btm:

TEST COMMENT: 5 IF; Built to 5 1/2"
60 IS; No Blow
30 FF; BOB in 14 min
120 FSI; Built to 2"



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
120.00	GMCO 10%G 45%M 45%O	1.41
190.00	OG 30%G 70%O	2.67

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samual Gary Jr. & Associates

26-4s-23w

1515 Wynkoop St. Ste 700
Denver Co 80202

John Henry 1-26

Job Ticket: 50693

DST#: 3

ATTN: Clayton Camozzi

Test Start: 2013.07.02 @ 02:42:00

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: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	GMCO 10%G 45%M 45%O	1.410
190.00	OG 30%G 70%O	2.665

Total Length: 310.00 ft Total Volume: 4.075 bbl

Num Fluid Samples: 0

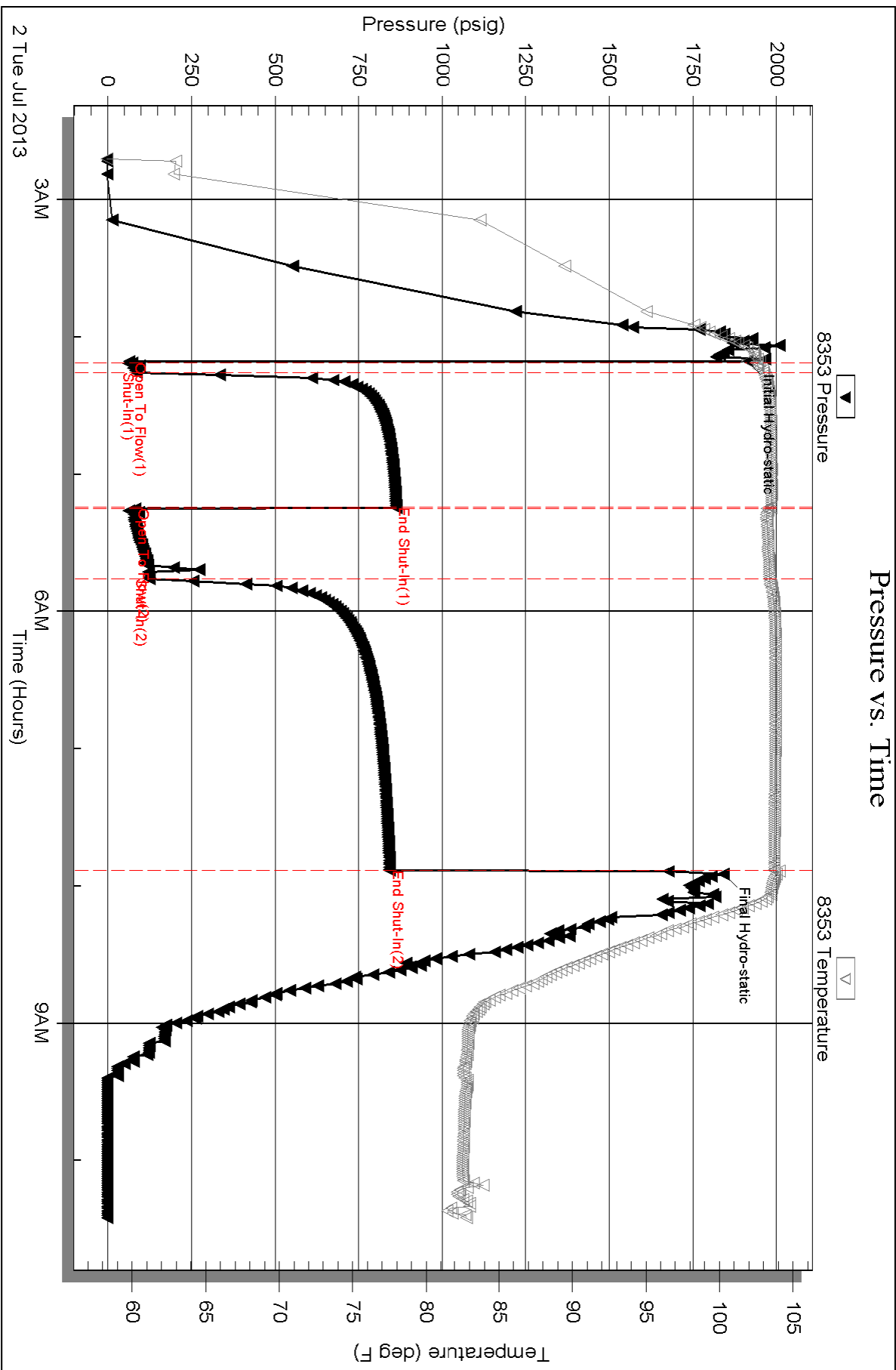
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 27@72 DEG F=25.8



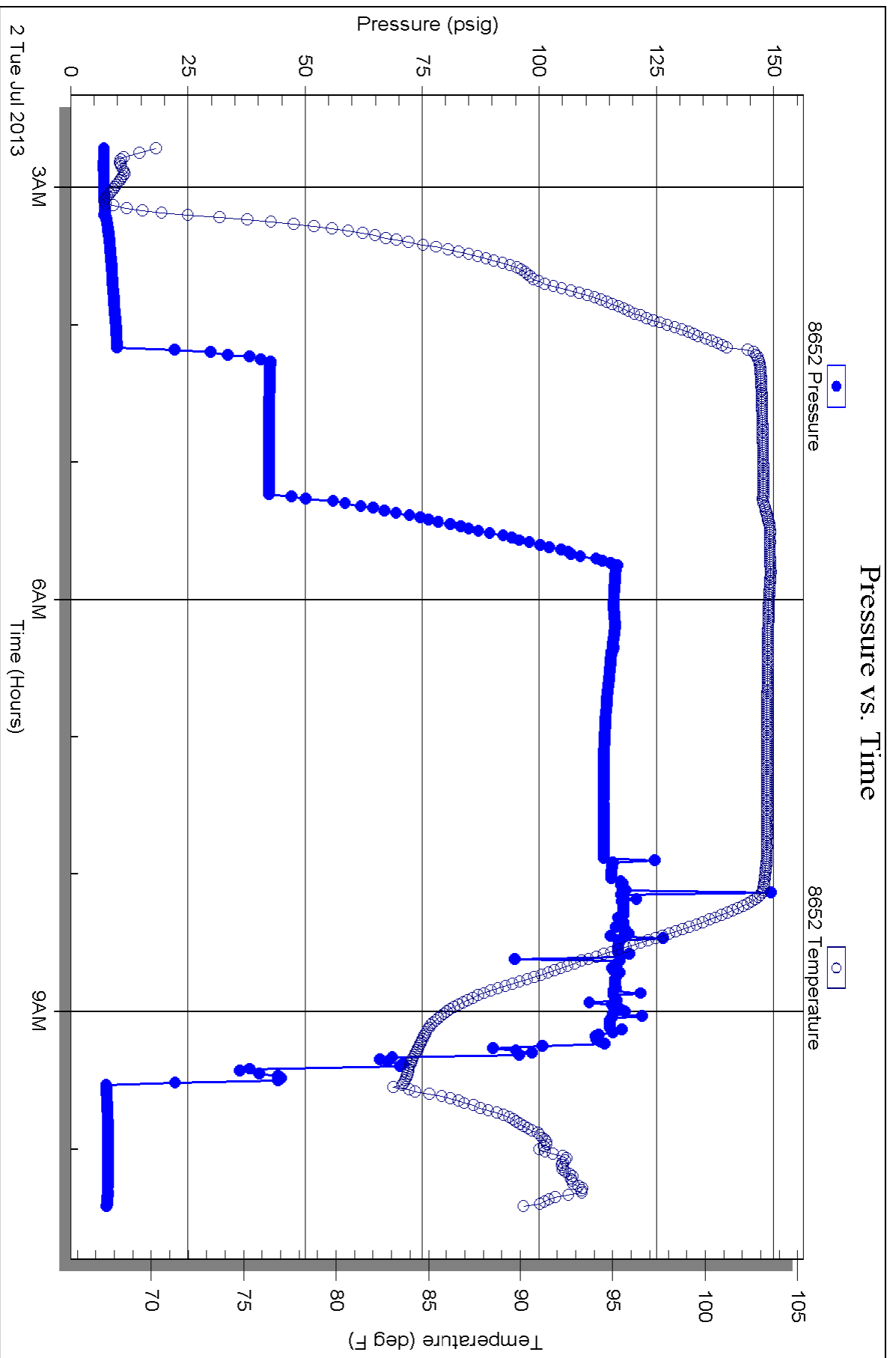
Serial #: 8652

Fluid

Samual Gary Jr. & Associates

John Henry 1-26

DST Test Number: 3





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

Well Name: John Henry 1-26
 Location: Sec. 26-4S-23W Norton County, Kansas
 License Number: 15-137-20656-0000
 Spud Date: June 26, 2013
 Surface Coordinates: 650 FSL/ 2190 FEL
 Region: WILDCAT
 Drilling Completed: July 2, 2013

Bottom Hole Coordinates:
 Ground Elevation (ft): 2343' K.B. Elevation (ft): 2351'
 Logged Interval (ft): 3200' To: 3860' Total Depth (ft): 3860'
 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: Clayton Camozzi

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 3464'-3488' 10 75 20 90
 IF- BUILT TO 11/2" ISI- NO BLOW/ FF- SURFACE BLOW/ FSI- NO BLOW
 IH- 1740, FH- 1693/ IF- 17 TO 29/ FF- 26 TO 37/ ISI- 518, FSI- 515
 RECOVERY- 40' MUD

DST's Report

DST#2 3684'-3748' 5 60 30 120
 IF- BUILT TO 5 1/2" ISI- BO RETURN/ FF- BOB IN 14 MIN/ FSI- BUILT TO 2"
 IH- 1913, FH- 1842/ IF- 73 TO 83/ FF- 87 TO 125/ ISI- 862, FSI- 842
 RECOVERY- 190' OG 30% GAS, 70% OIL/ 120' GMCO- 10% GAS, 45% OIL, 45% MUD/ 190' GIP

ROCK TYPES

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

ACCESSORIES

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

OTHER SYMBOLS

POROSITY TYPE

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

SORTING

- W Well
- M Moderate
- P Poor

ROUNDING

- R Rounded
- r Subrnd
- a Subang

Angular

OIL SHOWS

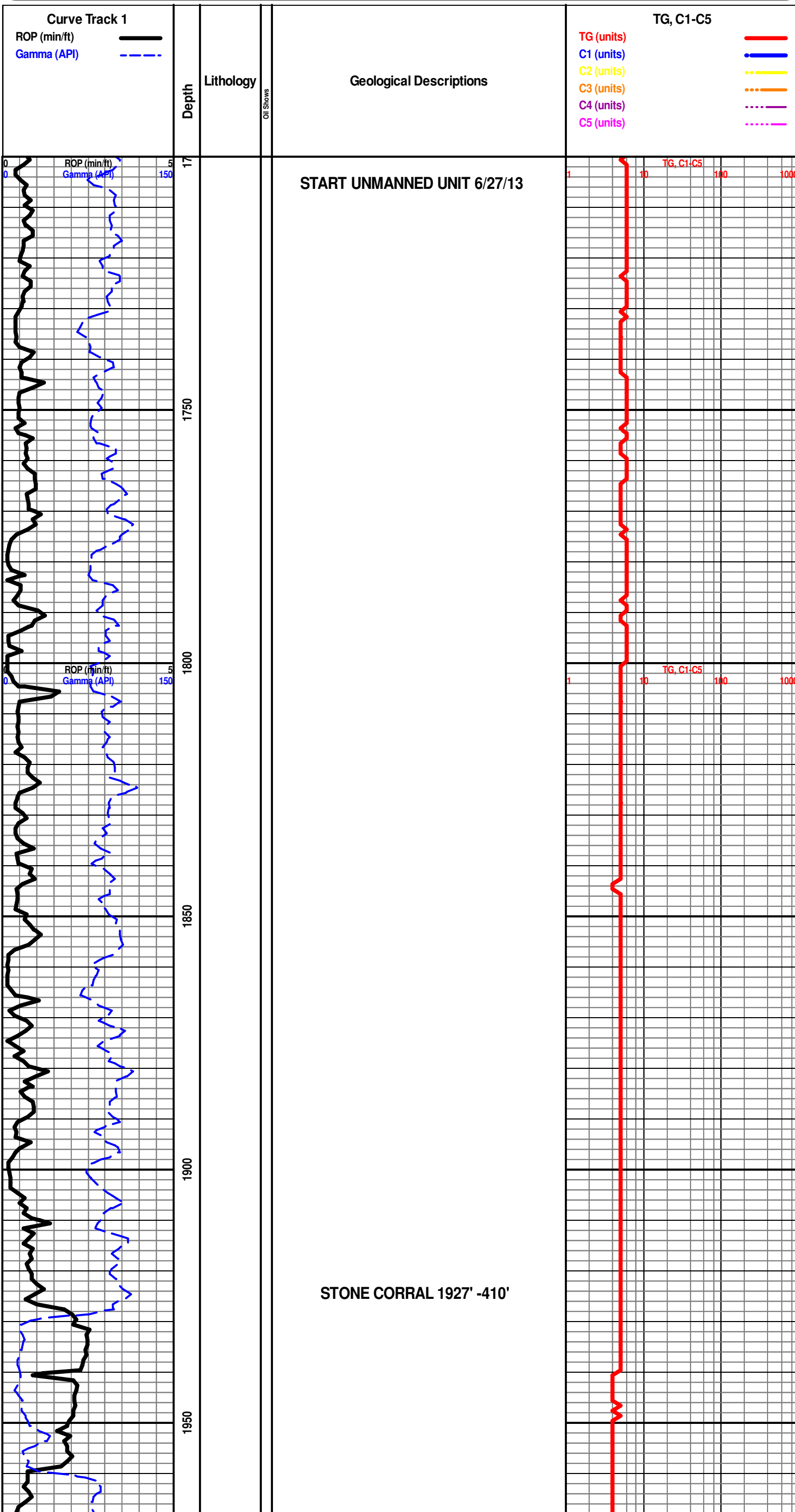
- Even
- Spotted
- Ques
- Dead
- Gas show

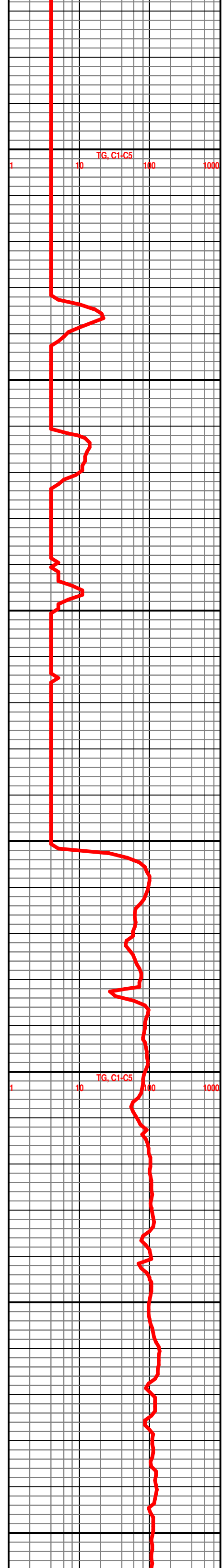
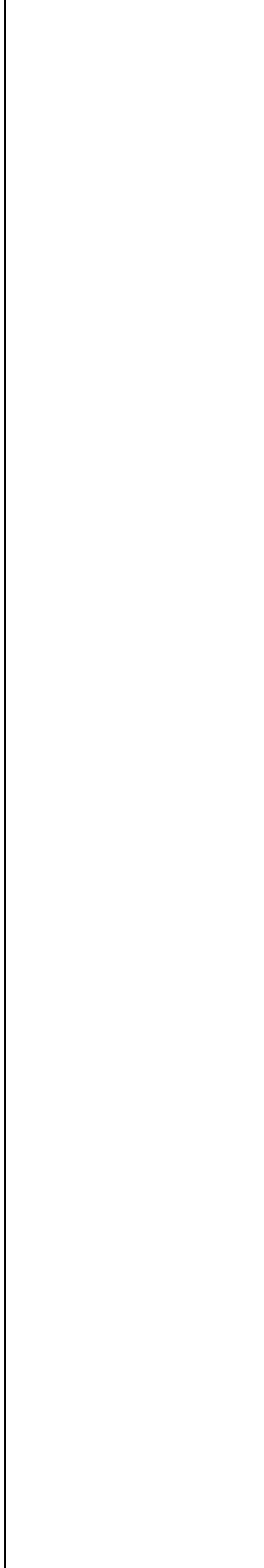
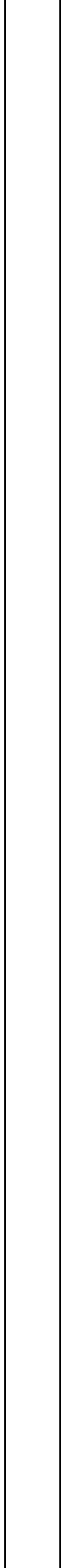
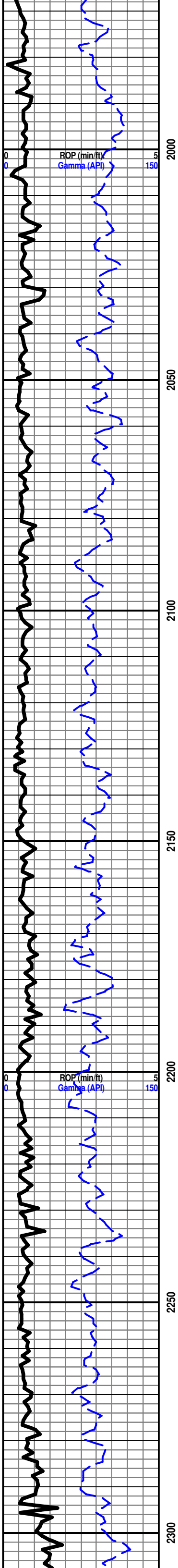
INTERVALS

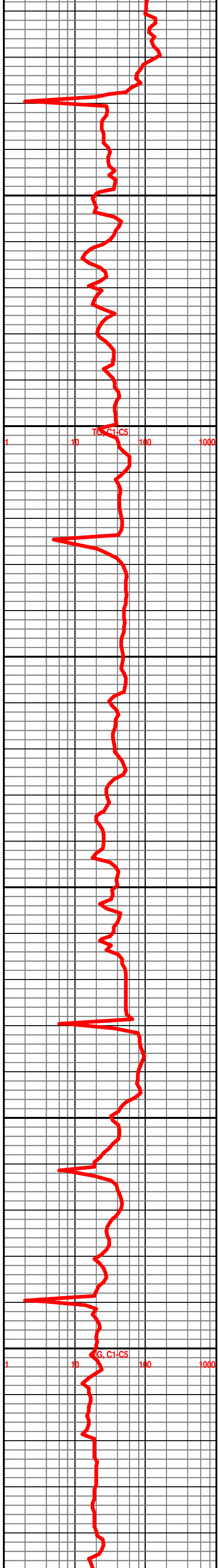
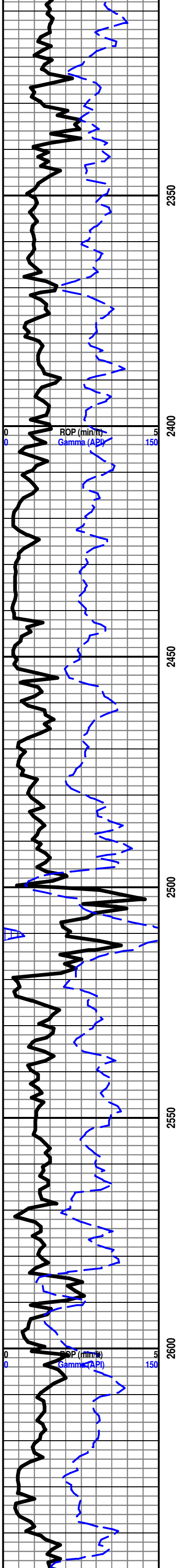
- Core
- Dst
- Dst

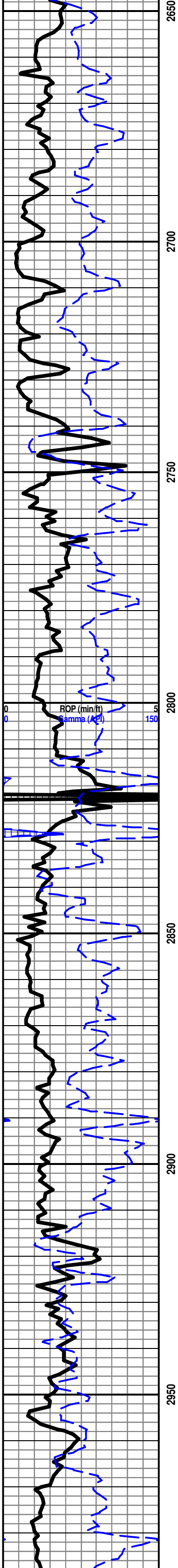
EVENTS

- Rft
- Sidewall









2650

2700

2750

2800

2850

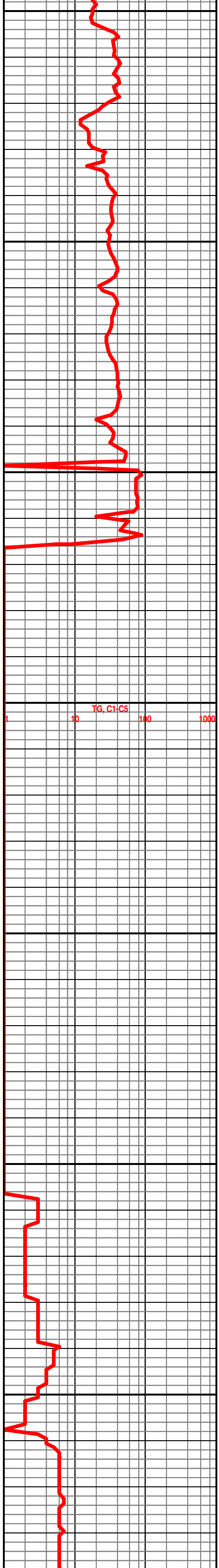
2900

2950

ROP (min/ft)
Gamma (API)

150

JANESVILLE SHALE 2966' -615'

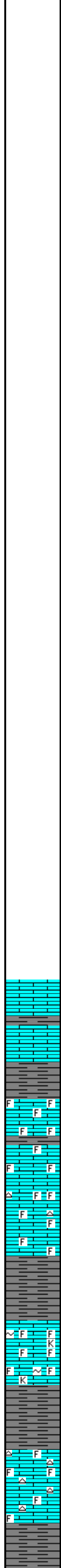
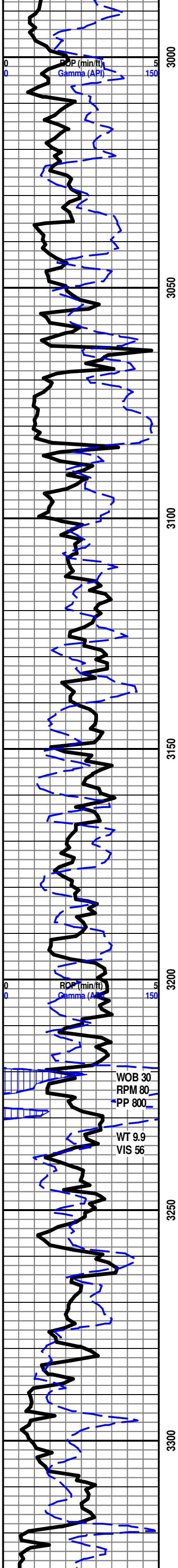


TG, CI-CS

10

100

1000



START 24 HOUR MANNED UNIT 6/18/13

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

SH- BRWN TO GY, FRM BLKY, SMTH TXT

TOPEKA 3225'-874'

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

LS- CRM TO LT TN, HD DNS TO BRIT, V/F TO MD XLN RE-XLN MTRX, S-CHLKY, ABDT IMBD FOSS FRG THRU, ABDT SFT WHT CHLK IN TRAY, NO VIS FLO, PR TO FR INTR FOSS POR IN 3%, NO VIS SHOW

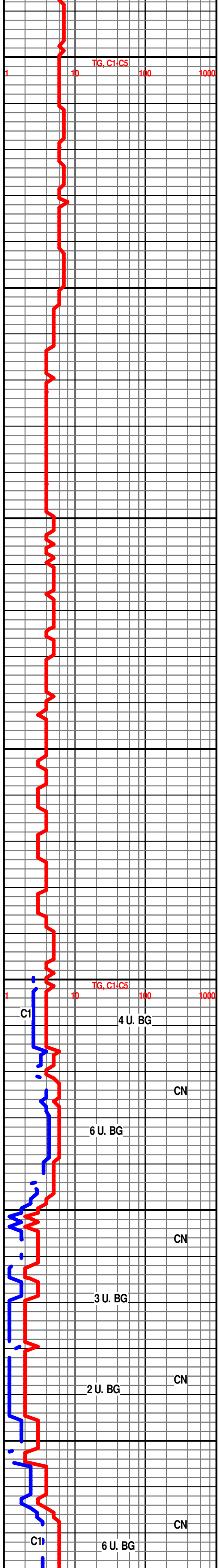
LS- OFF WHT CRM TO LT TN, HD DNS TO BRIT, V/F TO F XLN RE-XLN MTRX, S-CHLKY, ABDT IMBD FOSS FRG THRU, SFT WHT CHLK IN TRAY, TN TO ORNG CHRT IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

SH- BRWN TO TR GRN, SFT GMMY

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

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

LS- LT TN TO TN, HD DNS TO BRIT IP, MD XLN RE-XLN MTRX, SCAT IMBD FOSS FRG THRU, SLI TR IMBD CALC XLS IP, SCAT OFF WHT TO ORNG CHRT IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW



C1

4 U. BG

CN

6 U. BG

CN

3 U. BG

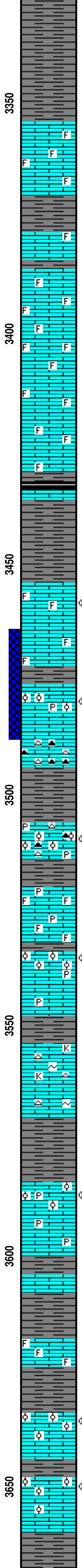
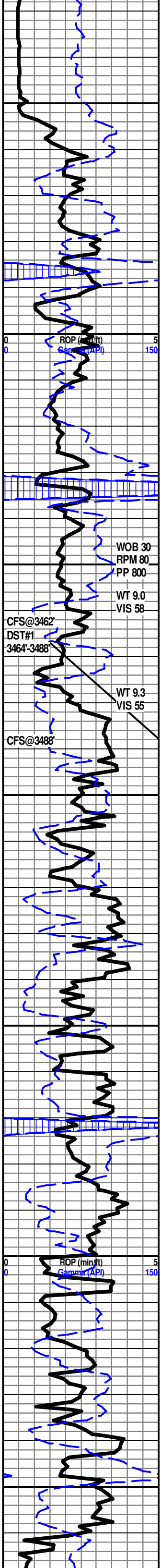
2 U. BG

CN

C1

6 U. BG

CN



SH- BRWN RED TO GY, SFT GMMY TO FRM BLKY IP, SLTY TXT

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

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

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

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

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

HEEBNER 3430' -1079'

SH- BLCK, SFT, CARB

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

3458'-3460' LS- CRM TO LT TN W/ TN OIL STN IN 50%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, RE-XLN IP, SCAT IMBD FOSS FRG THRU, DUL YEL GLD FLO IN 50%, FR INTR FOSS POR IN 3%, PR INTR XLN POR IN 1%, FR INSTNT FLSH CUT IN 60%, FR TO GD SLW STRM IN 60%, NO LCH ON DISH

LANSING 3476' -1125'

3479'-3480' LS- OFF WHT TO CRM W/ TN OIL STN IN 50%, HD DNS TO BRIT, V/F TO F XLN SUCRO MTRX, S-CHLKY, ABTD IMBD OOL THRU, TR PYR IN TRAY, BRT YEL GLD FLO IN 50%, FR TO GD INTR OOL POR IN 3%, PR TO FR VUG POR IN 2%, WK FLSH CUT IN 50%, FR TO GD SLW STRM IN 60%, NO LCH ON DISH

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

LANSING "B" 3506' -1155'

3508'-3511' LS- LT TN TO TN W/ TN OIL STN IN 50%, HD DNS TO BRIT IP, F TO MD XLN RE-XLN MTRX, S-SUCRO IP, ABTD IMBD OOL THRU, ABTD WHT TO GY CHRT IN TRAY, SCAT PYR IN TRAY, DUL YEL GLD FLO IN 50%, PR TO FR INTR OOL POR IN 3%, PR FLSH CUT IN 30%, WK SLW STRM IN 40%, NO LCH ON DISH

LS- OFF WHT 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 IMBD PYR IP, SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

3535'-3536' LS- LT TN TO TN W/ TN OIL STN IN 40%, HD DNS TO BRIT, V/F TO F XLN SUCRO MTRX, S-CHLKY IP, ABTD IMBD OOL THRU, TR IMBD PYR IP, SFT WHT CHLK IN TRAY, DUL YEL GLD FLO IN 40%, FR INTR OOL POR IN 5%, FR FLSH CUT IN 40%, FR SLW STRM IN 40%, TN LCH ON DISH

LS- CRM TO LT TN, HD DNS TO BRIT, V/F TO F XLN SUCRO MTRX, S-CHLKY, TR IMBD KAOL OR GLAUC, SCAT CRM TO LT TN CHRT IN TRAY, TR SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

LANSING "F" SHALE 3570' -1219'

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

3576'-3577' LS- CRM TO LT TN W/ TN OIL STN IN 35%, HD DNS TO V/ BRIT IP, ABTD IMBD OOL THRU, TR IMBD DISS PYR IP, BRT YEL GLD FLO IN 35%, FR TO GD INTR OOL POR IN 4%, WK FLSH CUT IN 35%, PR TO FR SLW STRM IN 35%, NO LCH ON DISH

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

LANSING "G" 3618' -1267'

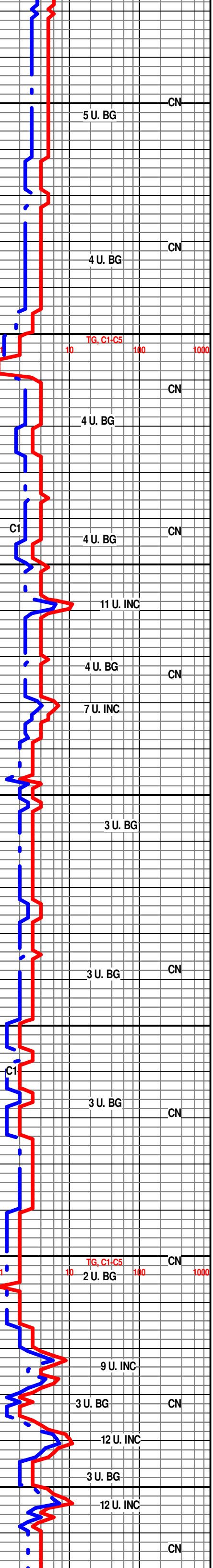
LS- CRM LT TN TO TN, HD DNS TO BRIT IP, F TO MD XLN RE-XLN MTRX, S-SUCRO, SCAT IMBD FOSS FRG IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

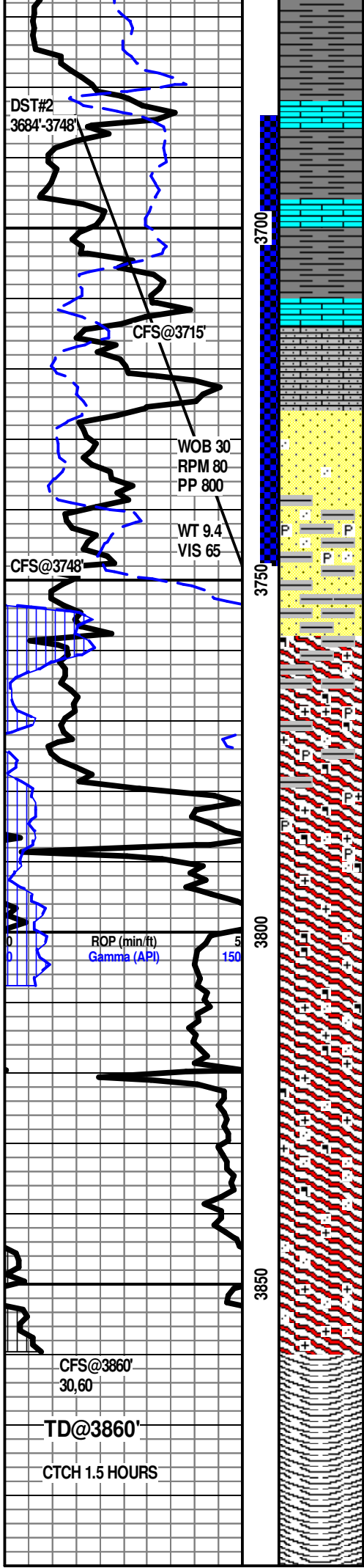
SH- GRN BRWN TO GY, FRM BLKY, SLTY TXT

3635'-3636' LS- OFF WHT LT TN TO TN, W/ TN TO DK TN OIL STN IN 65%, HD DNS TO BRIT IP, F TO MD XLN RE-XLN MTRX, S-SUCRO IP, ABTD IMBD OOL THRU, SLI TR IMBD CALC XLS IP, DUL YEL GLD FLO IN 65%, FR TO GD INTR GRN/OOL POR IN 5%, GD VUG POR IN 1%, WK FLSH CUT IN 30%, PR TO FR SLW STRM IN 65%, LT TN LCH ON DISH

3649'-3651' LS- CRM TO LT TN W/ TN TO DK TN OIL STN IN 55%, LOS IN 2-3%, HD DNS TO BRIT, V/F TO F XLN SUCRO MTRX, IMBD OOL IP, SLI TR IMBD CALC XLS IP, DUL YEL GLD FLO IN 55%, PR TO FR INTR OOL POR IN 3%, FR TO GD VUG POR IN 3%, FR INSTNT FLSH CUT THRU, FR TO GD SLW STRM IN 55%, DK TN LCH ON DISH, NO OIL ODOR

BKC 3661' -1310'





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

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

SH- GRN BRWN PNK RED TO GY, FRM BLKY, SLTY TXT

3715'-3718' LS- OFF WHT CRM TO LT TN W/ TN OIL STN IN 70%, HD DNS TO BRIT IP, F XLN RE-XLN MTRX S-SUCRO, ABDT IMBD OOL THRU, IMBD MD TO CRS S-RND QRTZ GRNS THRU, DUL YEL GLD FLO IN 50%, PR TO FR INTR GRN POR IN 5%, WK FL SH CUT IN 70%, PR SLW STRM IN 70%, NO LCH ON DISH, WK OIL ODOR

GORHAM SAND 3726' -1375'

3727'-3734' SS- PRED UNCONSOLIDATED GRNS, CLR TO FRSTY W/ TN OIL STN IN 80%, LOS IN 1%, QRTZ GRN, V/FRI, MD TO CRS GRN, S-ANG TO RND, FR SORT, SIL CMNT, SCAT MD TO LG S-ANG QRTZ XLS IN TRAY, DUL YEL GLD FLO IN 70%, GD TO V/GD INTR GRN POR IN 15%, FR FL SH CUT IN 40%, PR TO FR SLW STRM IN 70%, LT TN LCH ON DISH, GD OIL ODOR, TR FREE OIL DROPLETS IN TRAY

3740'-3743' SS- PRED UNCONSOLIDATED GRNS, CLR FRSTY TO CRM, W/ TN OIL STN IN 60%, QRTZ GRN, FRI, SM TO CRS GRN, S-ANG TO RND, FR SORT, SIL CMNT, ABDT GRN BRWN RED TO GYSH IN TRAY, SCAT PYR IN TRAY, DUL YEL GLD FLO IN 25%, GD INTR GRN POR IN 15%, FR FL SH CUT IN 60%, FR SLW STRM IN 60%, NO LCH ON DISH

GRANITE WASH 3758' -1407'

GRNTE WASH- CRL FRST ORNG TO RED, HD DNS, S-ANG TO ANG, ABDT IMBD BIOTITE, SCAT IMBD HEMATITE, ABDT FELDSPR IN TRAY, ABDT QRTZ IN TRAY, SCAT SH IN TRAY, TR PYR IN TRAY NO VIS FLO, NO VIS POR, NO VIS SHOW

GRNTE WASH- CRL FRST ORNG TO RED, HD DNS, S-ANG TO ANG, ABDT IMBD BIOTITE, SCAT IMBD HEMATITE, ABDT FELDSPR IN TRAY, ABDT QRTZ IN TRAY, TR PYR IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

GRNTE WASH- CRL FRST TO ORNG, HD DNS, S-ANG TO ANG, ABDT IMBD BIOTITE, SCAT IMBD HEMATITE, SCAT FELDSPR IN TRAY, ABDT QRTZ IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

GRNTE WASH- CRL FRST TO ORNG, HD DNS, S-ANG TO ANG, ABDT IMBD BIOTITE, TR SCAT IMBD HEMATITE, TR SCAT FELDSPR IN TRAY, ABDT QRTZ IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

GRNTE WASH- CRL FRST TO ORNG, HD DNS, S-ANG TO ANG, ABDT IMBD BIOTITE, TR SCAT IMBD HEMATITE, TR SCAT FELDSPR IN TRAY, ABDT QRTZ IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

GRNTE WASH- CRL FRST TO ORNG, HD DNS, S-ANG TO ANG, ABDT IMBD BIOTITE, SLI TR SCAT FELDSPR IN TRAY, ABDT QRTZ IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

R.T.D@ 11:15 PM 7/2/13

DROP SURVEY

TOFL

WEATHERFORD/LIBERAL

