



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1122037
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: _____



1122037

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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
--	---	---

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	SHUBERT ET AL 2-31
Doc ID	1122037

All Electric Logs Run

INDUCTION
MICRO
NEUTRON-DENSITY
SONIC
SPECTRAL GR

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

March 06, 2013

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

Re: ACO1
API 15-195-22829-00-00
SHUBERT ET AL 2-31
NW/4 Sec.31-11S-21W
Trego County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
CHRISTOPHER MITCHELL



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

Date: 11/18/2012
 Invoice # 6193
 P.O.#:
 Due Date: 12/18/2012
 Division: Russell

Invoice

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

Reference:
 SHUBERT ET AL 2-31

Description of Work:
 SURFACE JOB

RECEIVED
 NOV 29 2012
 SAMUEL GARY JR.
 & ASSOCIATES, INC.

DRLG COMP W/O LOE GG

Account	8300.238
Well/Prospect	
Deck	
AFE	
Approval	<i>[Signature]</i>
Description	

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 991.39	No				
Common-Class A	200	\$ 2,722.97	Yes				
Bulk Truck Matl-Material Service Charge	211	\$ 458.17	No				
Calcium Chloride	7	\$ 362.22	Yes				
Pump Truck Mileage-Job to Nearest Camp	34	\$ 368.40	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	34	\$ 215.58	No				
8 5/8" Wooden Plug	1	\$ 91.20	Yes				
Premium Gel (Bentonite)	4	\$ 70.70	Yes				

Invoice Terms:
 Net 30

SubTotal: \$ 5,280.63
 Discount Available ONLY if Invoice is Paid & Received
 within listed terms of invoice: \$ (792.09)

SubTotal for Taxable Items:	\$ 2,760.03
SubTotal for Non-Taxable Items:	\$ 1,728.51
Total:	\$ 4,488.54
Tax:	\$ 187.68
Amount Due:	\$ 4,676.22
Applied Payments:	
Balance Due:	\$ 4,676.22

6.80% Trego 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.
 ©2008-2013 Straker Investments, LLC. All rights reserved.

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. 6193
11-15-12

Date	11-14-12	Sec.	31	Twp.	11	Range	21	County	Trego	State	Ks	On Location		Finish	4:00 AM
Lease	Shubert ETAL							Location	Ogallah, Ks - N to F Rd, 2E, E, Into						
Well No.	2-31		Owner	E + S to well											
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	Surface		Charge To	Sam Gary J & Assoc.											
Hole Size	12 1/4"		T.D.	387'		Street									
Csg.	8 5/8"		Depth	387'		City	State								
Tbg. Size			Depth												
Tool			Depth												
Cement Left in Csg.	15'		Shoe Joint	15'		The above was done to satisfaction and supervision of owner agent or contractor.									
Meas Line			Displace	23 1/2 BLS		Cement Amount Ordered 200 SX Common 3% GEL									
EQUIPMENT						Common 200									
Pumptrk	16		No.	Cementer		Travis									
Bulktrk	1		No.	Driver		Heath									
Bulktrk	p.m.		No.	Driver		Rick									
JOB SERVICES & REMARKS						Hulls									
Remarks:	Cement did		Circulate												
Rat Hole	Salt														
Mouse Hole	Flowseal														
Centralizers	Kol-Seal														
Baskets	Mud CLR 48														
D/V or Port Collar	CFL-117 or CD110 CAF 38														
	Sand														
	Handling 211														
	Mileage														
FLOAT EQUIPMENT						Guide Shoe									
						Centralizer									
						Baskets									
						AFU Inserts									
						Float Shoe									
						Latch Down									
						1- wooden plug									
	Pumptrk Charge		Surface												
	Mileage		34												
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: 11/25/2012
 Invoice # 6230

P.O.#:
 Due Date: 12/25/2012
 Division: Russell

Invoice

Contact:

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

Reference:

SHUBERT ET AL 2-31

Description of Work:

PROD LONG STRING

DRLG COMP W/O LOE GG

Account	200.238
Well/Prospect	
Deck	
AFE	
Approval	<i>[Signature]</i>
Description	

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 950.65	No	Pump Truck Mileage-Job to Nearest Camp	34	\$353.26	No
Common-Class A	225	\$ 2,937.45	Yes	Auto Fill Float Shoe, 5 1/2"	1	\$318.58	Yes
Cement Port Collar, 5 1/2"	1	\$ 2,602.74	Yes	Salt (Fine)	19	\$276.14	Yes
Gilsonite	1057	\$ 1,650.66	Yes	Latch Down Plug & Baffle, 5 1/2"	1	\$233.21	Yes
CFL 117	176	\$ 1,128.71	Yes	Bulk Truck Mileage-Job to Nearest Bulk Plant	34	\$206.72	No
5 1/2" Basket	4	\$ 957.81	Yes	Flo Seal	56	\$116.60	Yes
5 1/2" Turbolizer	10	\$ 603.84	Yes	KCL	2	\$62.17	Yes
Bulk Truck Matl-Material Service Charge	254	\$ 528.88	No				
CD-110	117	\$ 487.23	Yes				
Mud Clear	500	\$ 385.21	Yes				
Defoamer A or CAF-38	50	\$ 364.38	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 14,164.23
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (2,124.64)

SubTotal for Taxable Items:	\$ 10,306.02
SubTotal for Non-Taxable Items:	\$ 1,733.58
Total:	\$ 12,039.59
Tax:	\$ 700.81

6.80% Trego County Sales Tax

Thank You For Your Business!

Amount Due: \$ 12,740.40
Applied Payments:
Balance Due: \$ 12,740.40

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
 ©2008-2013 Straker Investments, LLC. All rights reserved.



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: 12/2/2012
 Invoice # 6212

P.O.#:
 Due Date: 1/1/2013
 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:
 SHUBERT ET AL 2-31

Description of Work:
 PORT COLLAR JOB

DRLG COMP W/O LOE GG

Account	8300.201
Well/Prospect	
Deck	
AFE	
Approval	<i>[Signature]</i>
Description	

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 991.39	No				
mon, MetsoBeads, Plater, Gel, FloSeal, Calcium)	175	\$ 3,632.80	Yes				
Bulk Truck Matl-Material Service Charge	260	\$ 564.57	No				
Pump Truck Mileage-Job to Nearest Camp	34	\$ 368.40	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	34	\$ 215.58	No				
Flo Seal	62	\$ 134.63	Yes				
Premium Gel (Bentonite)	7	\$ 123.73	Yes				

Invoice Terms:

Net 30

	SubTotal:	\$	6,031.10
	Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:	\$	(904.66)
<hr/>			
	SubTotal for Taxable Items:	\$	3,307.48
	SubTotal for Non-Taxable Items:	\$	1,818.95
<hr/>			
	Total:	\$	5,126.44
	Tax:	\$	224.91
	<hr/>		
	6.80% Trego County Sales Tax		

Thank You For Your Business!

Amount Due: \$ 5,351.35
Applied Payments:
Balance Due: \$ 5,351.35

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
 ©2008-2013 Straker Investments, LLC. All rights reserved.

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

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

No. 6212

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
11-29-12				Trego	KS		12:00pm
Lease <u>Shubert ETAL</u>				Well No. <u>2-31</u>		Location <u>Opalka 3rd 25th St</u>	
Contractor <u>ACE</u>				Owner 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 <u>Port collar</u>				Charge To <u>Sam Camp</u>			
Hole Size <u>5 7/8</u>		T.D.		Street			
Csg. <u>5 1/2</u>		Depth		City			
Tbg. Size <u>2 7/8</u>		Depth		State			
Tool <u>Port collar Expert</u>		Depth <u>175.5</u>		The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Left in Csg.		Shoe Joint		Cement Amount Ordered <u>250 sacks 1/4" to 10" inside</u>			
Meas Line		Displace <u>8 1/2 RL</u>		<u>175 SK 7 1/2" gel</u>			
EQUIPMENT				Common			
Pumptrk <u>9</u>	No.	Cementer <u>Smith</u>		Poz. Mix			
Bulktrk	No.	Helper <u>Carly</u>		Gel.			
Bulktrk <u>8</u>	No.	Driver <u>Heath</u>		Calcium			
JOB SERVICES & REMARKS				Hulls			
Remarks:				Salt			
Rat Hole <u>KCE Ray Drivel</u>				Flowseal			
Mouse Hole				Kol-Seal			
Centralizers				Mud CLR 48			
Baskets				CFL-117 or CD110 CAF 38			
D/V or Port Collar				Sand			
<u>Test 5 1/2 to 1000#. Held. Open tool</u>				Handling			
<u>& Pump 7 SK gel Est. Circulation.</u>				Mileage			
<u>Mix 175 SK + D Displace 8 1/2 RL +</u>				FLOAT EQUIPMENT			
<u>Cement Circulated. Test to</u>				Guide Shoe			
<u>to Close Tool test to 1000#.</u>				Centralizer			
<u>Held. Run 5 joints wash clean.</u>				Baskets			
				AFU Inserts			
				Float Shoe			
				Latch Down			
				Pumptrk Charge			
				Mileage			
				Tax			
				Discount			
				Total Charge			
Signature <u>James Amundson</u>							



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr and Associates Inc

31-11s-21w

1515 Wynkoop Ste 700
Denver Co 80202

Shubert Et Al 2-31

ATTN: Chis Mitchell

Job Ticket: 44316

DST#: 1

Test Start: 2012.11.18 @ 22:13:48

GENERAL INFORMATION:

Formation: **Lansing- A-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:04:18

Time Test Ended: 06:15:18

Test Type: Conventional Bottom Hole (Initial)

Tester: Jeff Brown

Unit No: 44

Interval: 3595.00 ft (KB) To 3655.00 ft (KB) (TVD)

Reference Elevations: 2314.00 ft (KB)

Total Depth: 3655.00 ft (KB) (TVD)

2306.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8737 Outside

Press @ Run Depth: 189.80 psig @ 3632.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.11.18

End Date:

2012.11.19

Last Calib.:

2012.11.19

Start Time:

22:13:49

End Time:

06:13:18

Time On Btm:

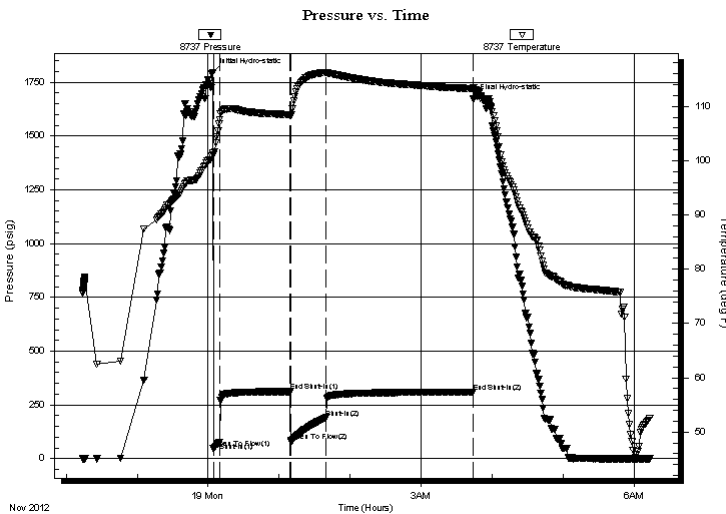
2012.11.19 @ 00:03:48

Time Off Btm:

2012.11.19 @ 03:44:18

TEST COMMENT: IFP-Fair blow built to 9 in
ISI-Dead no blow back
FFP-Good blow BOB in 10 1/2 min
FSI-Dead no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1796.48	101.34	Initial Hydro-static
1	45.57	101.11	Open To Flow (1)
6	75.85	107.62	Shut-In(1)
66	311.47	108.48	End Shut-In(1)
66	80.69	108.36	Open To Flow (2)
96	189.80	116.25	Shut-In(2)
220	309.51	113.28	End Shut-In(2)
221	1672.64	113.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
256.00	MW 10%M 90%W	3.59
62.00	WM 10%W 90%M	0.87

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr and Associates Inc

31-11s-21w

1515 Wynkoop Ste 700
Denver Co 80202

Shubert Et Al 2-31

Job Ticket: 44316

DST#: 1

ATTN: Chis Mitchell

Test Start: 2012.11.18 @ 22:13:48

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
256.00	MW 10%M 90%W	3.591
62.00	WM 10%W 90%M	0.870

Total Length: 318.00 ft Total Volume: 4.461 bbl

Num Fluid Samples: 0

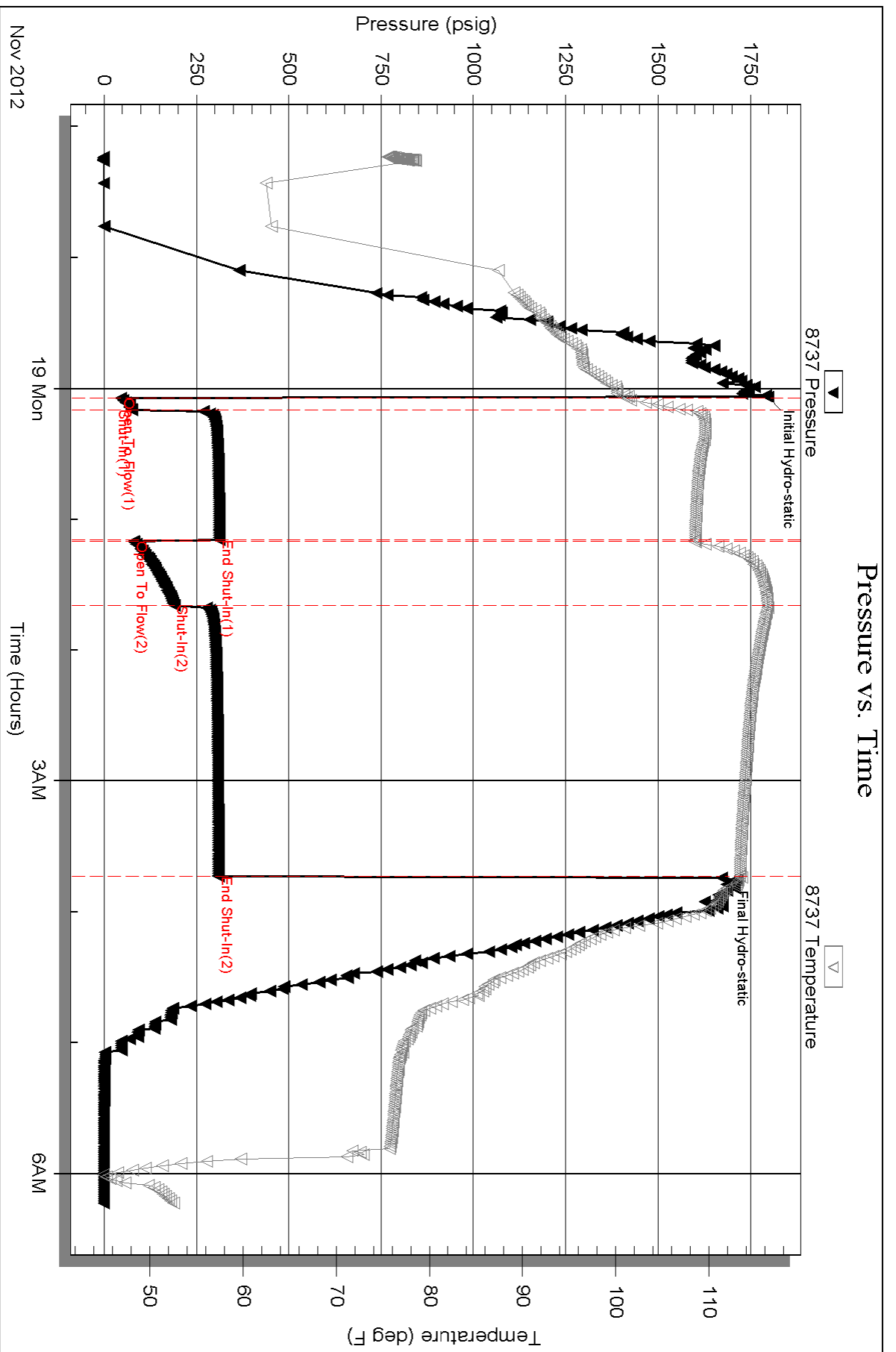
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 2000 MI Of total Fluid 1800 MI Of Water
200 MI Of Mud 260 Psi



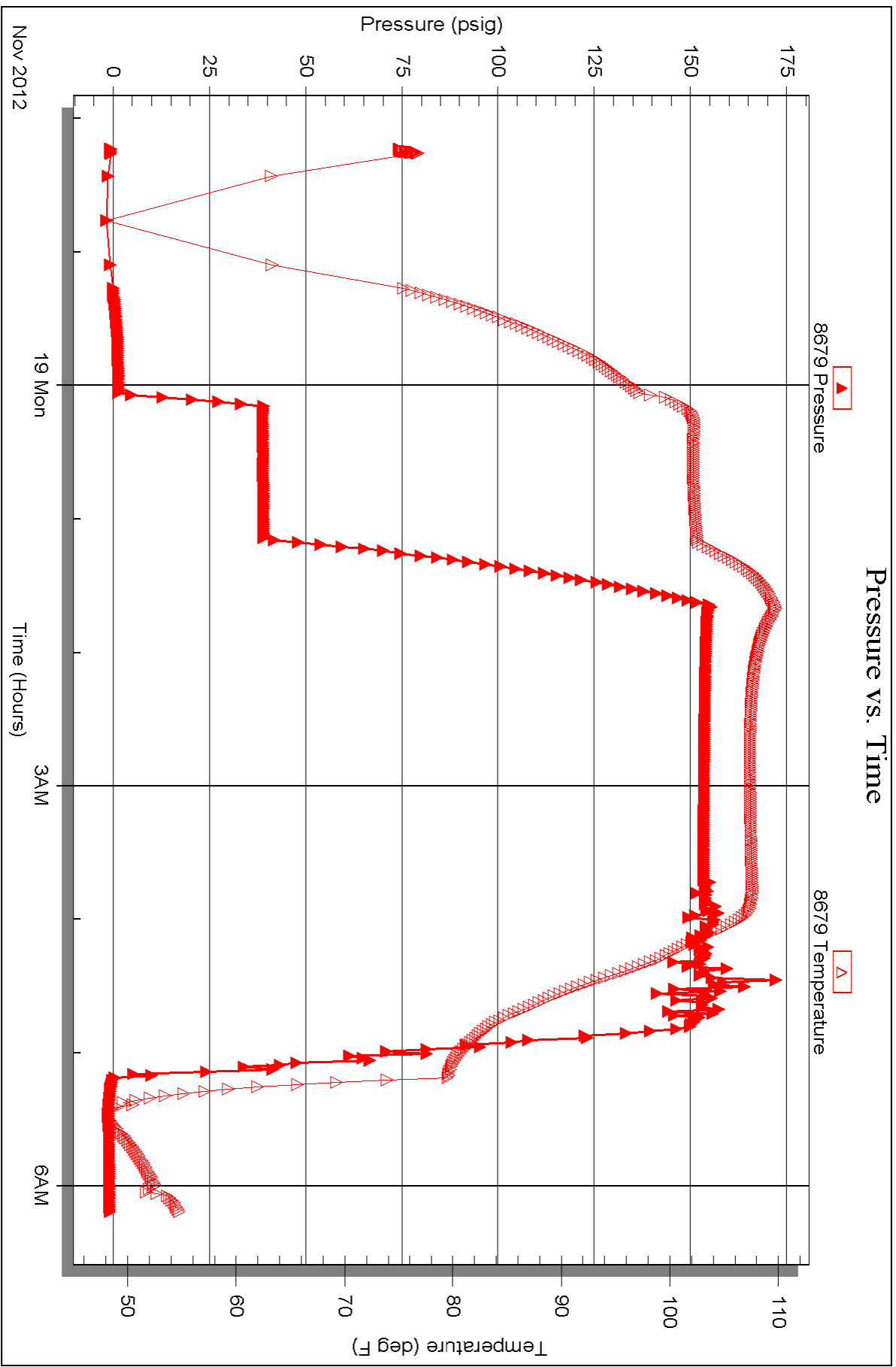
Serial #: 8679

Fluid

Samuel Gary Jr and Associates Inc

Shubert B AI 2-31

DST Test Number: 1





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr and Associates Inc

31-11s-21w

1515 Wynkoop Ste 700
Denver Co 80202

Shubert Et Al 2-31

Job Ticket: 44317

DST#: 2

ATTN: Chis Mitchell

Test Start: 2012.11.19 @ 21:05:01

GENERAL INFORMATION:

Formation: **Lansing-I-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:30:01

Time Test Ended: 05:48:31

Test Type: Conventional Bottom Hole (Reset)

Tester: Jeff Brown

Unit No: 44

Interval: 3775.00 ft (KB) To 3815.00 ft (KB) (TVD)

Reference Elevations: 2314.00 ft (KB)

Total Depth: 3815.00 ft (KB) (TVD)

2306.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8321 Inside

Press @ Run Depth: 77.55 psig @ 3779.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.11.19

End Date:

2012.11.20

Last Calib.:

2012.11.20

Start Time: 21:05:02

End Time:

05:45:31

Time On Btm:

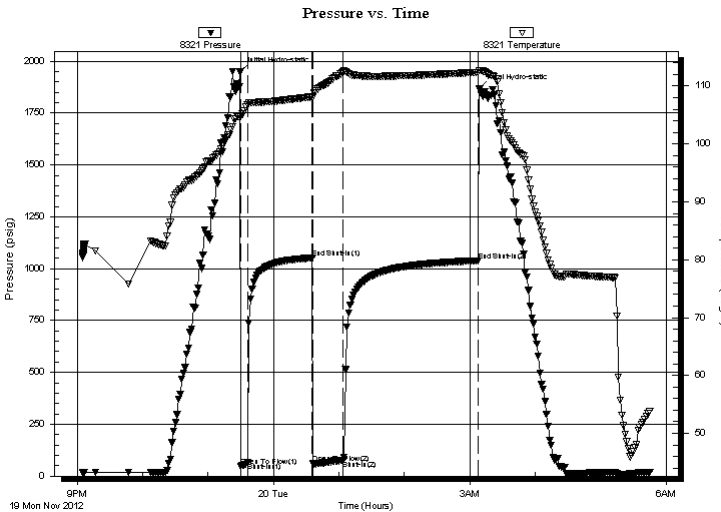
2012.11.19 @ 23:29:31

Time Off Btm:

2012.11.20 @ 03:09:01

TEST COMMENT: IFP=5=min=Weak blow built to 3 in
ISL=60=min=Dead no blow back
FFP=30=min=Fair blow built to 10 in
FSL=120=min=Dead no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1947.80	104.90	Initial Hydro-static
1	46.84	104.67	Open To Flow (1)
7	66.48	106.75	Shut-In(1)
66	1051.66	108.18	End Shut-In(1)
67	61.72	107.99	Open To Flow (2)
95	77.55	112.51	Shut-In(2)
219	1038.46	112.38	End Shut-In(2)
220	1868.45	112.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
88.00	SOCWM 5%O 25%W 70%M	1.23
5.00	Gassy Oil 5%G 95%O	0.07
0.00	62-GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr and Associates Inc

31-11s-21w

1515 Wynkoop Ste 700
Denver Co 80202

Shubert Et Al 2-31

Job Ticket: 44317

DST#: 2

ATTN: Chis Mitchell

Test Start: 2012.11.19 @ 21:05:01

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 75.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
88.00	SOCWM 5%O 25%W 70%M	1.234
5.00	Gassy Oil 5%G 95%O	0.070
0.00	62-GIP	0.000

Total Length: 93.00 ft Total Volume: 1.304 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 2000 MI of total fluid 1500 MI of water
500 MI of Oil 350 Psi

Serial #: 8321

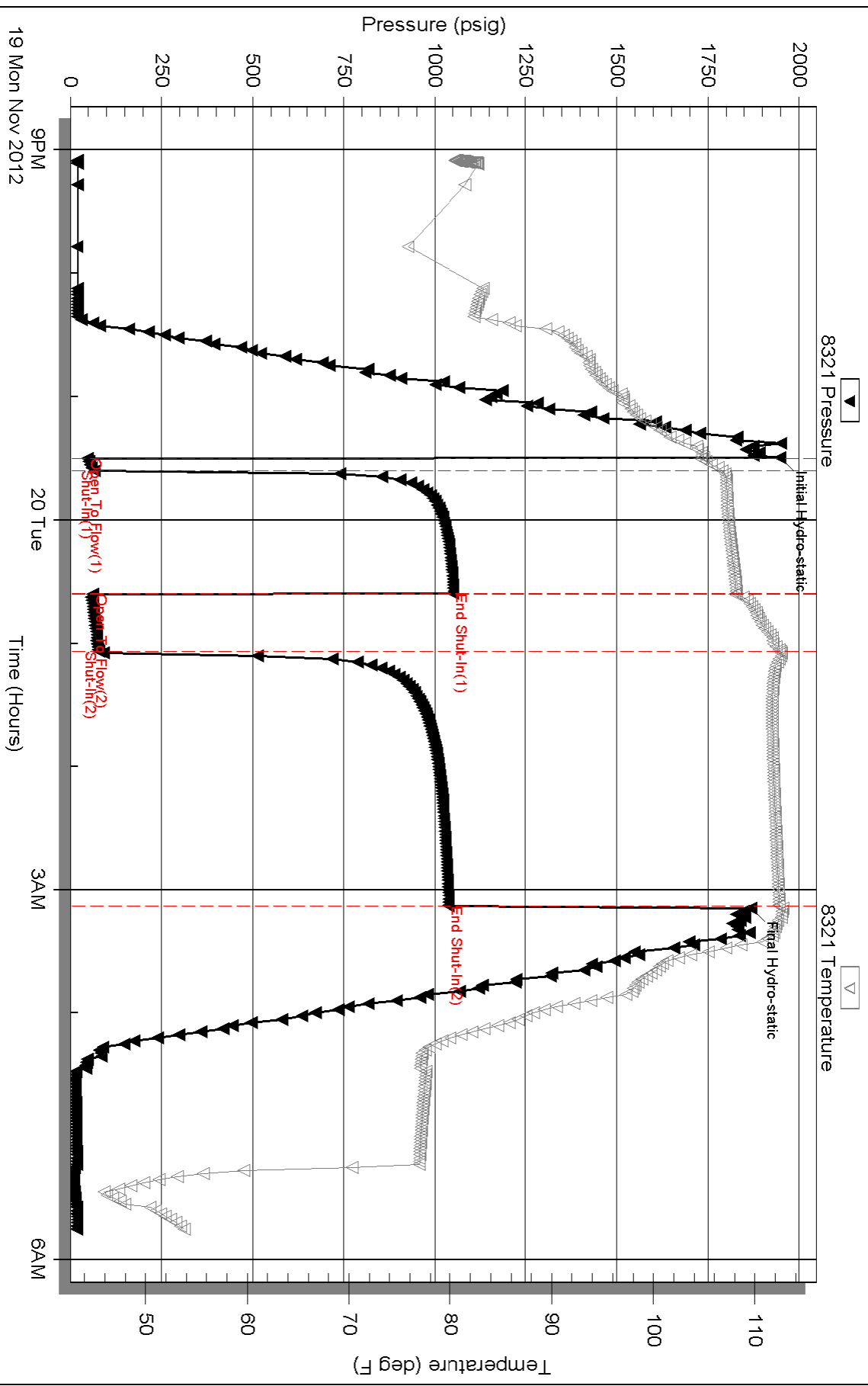
Inside

Samuel Gary Jr and Associates Inc

Shubert E AI 2-31

DST Test Number: 2

Pressure vs. Time



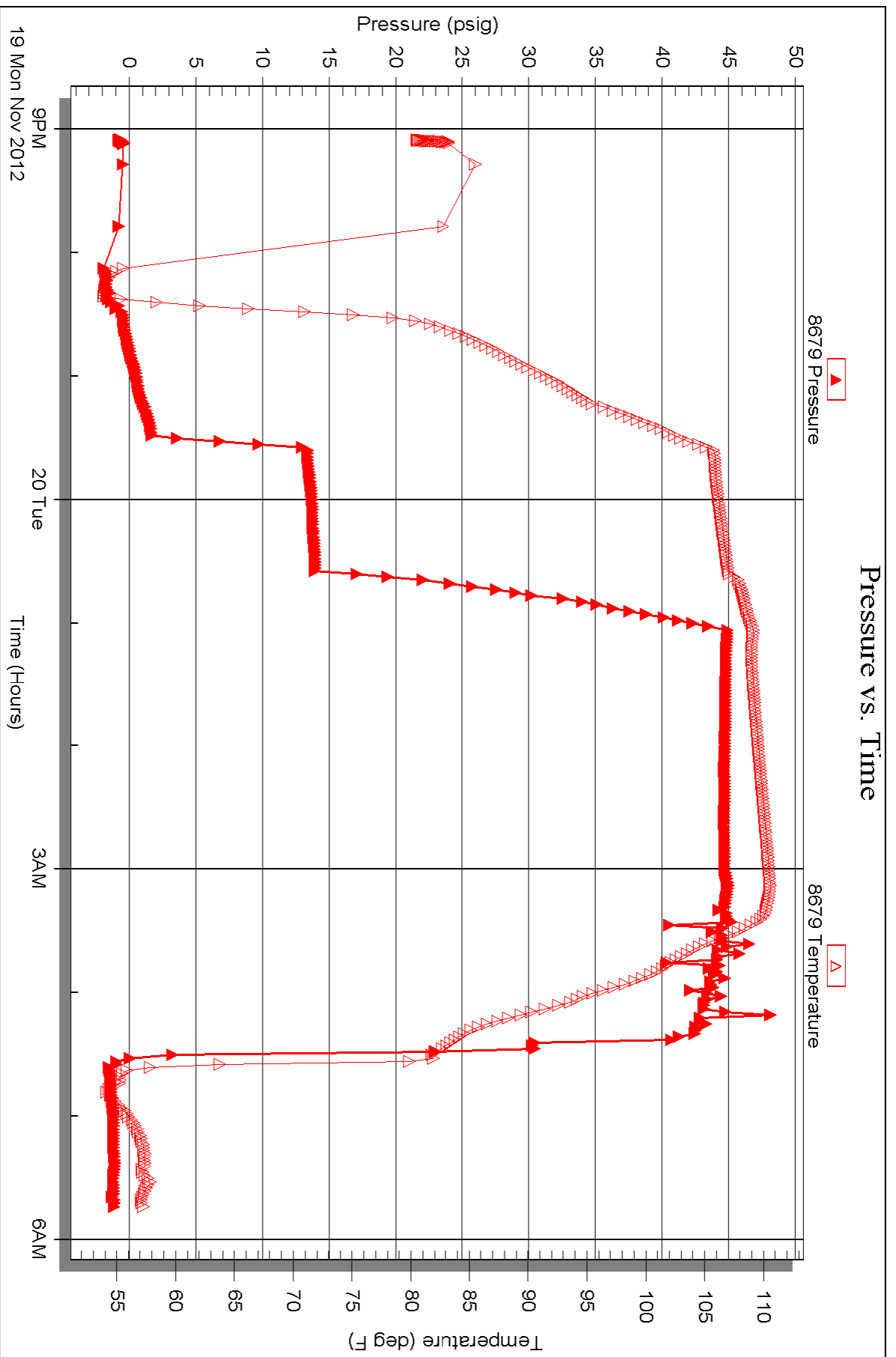
Serial #: 8679

Fluid

Samuel Gary Jr and Associates Inc

Shubert E AI 2-31

DST Test Number: 2





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

Well Name: SGA Shubert et al 2-31
 Location: Sec. 32 11S-21W Trego County, Kansas
 License Number: 15-195-22829-0000
 Spud Date: Nov 14, 2012
 Surface Coordinates: 860 FNL/ 2800 FEL
 Region: WILDCAT
 Drilling Completed: Nov 21, 2012

Bottom Hole Coordinates:
 Ground Elevation (ft): 2306' K.B. Elevation (ft): 2314'
 Logged Interval (ft): 3300' To: 4080' Total Depth (ft): 4080'
 Formation: LANSING/ ARBUCKLE
 Type of Drilling Fluid:

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Samuel Gary Jr. & Assoc.
 Address: 1515 Wynkoop, Ste. # 700
 Denver, Colo. 80202
 Geo: Chris Mitchell

GEOLOGIST

Name: Aaron Suelter
 Company: Earth Tech OGL, Inc.
 Address: PO Box 683
 Hooker, Okla . 73945
 Off. 888-543-8378 Cell: 580-754-0221

DST's Report

DST#1 3595'-3655' 5 60 30 120
 IF- FAIR BLOW BUILT TO 9"/ ISI- DEAD NO BLOW BACK/ FF- GOOD BLOW BOB IN 10 1/2 MIN/ FSI- DEAD NO BLOW BACK
 IH- 1796, FH- 1673/ IF-46 TO 81/ FF- 76 TO 190/ ISI-311, FSI- 310
 RECOVERY- 256 MW- 90% WATER, 10% MUD/ 62 MW- 10% WATER, 90% MUD
 SAMPLER- 200 ML MUD/ 1800 ML WATER/ 2000 ML TOTAL/ PRESSURE- 260

DST's Report

DST#2 3775'-3815' 5 60 30 120
 IF- WEAK BLOW BUILT TO 3"/ ISI- DEAD NO BLOW BACK/ FF-GOOD BLOW BUILT TO 10"/ FSI- DEAD NO BLOW BACK
 IH- 1948, FH- 1868, IF- 47 TO 62/ FF- 66 TO 78/ ISI- 1052, FSI- 1038
 RECOVERY- 88' SOCMW- 5% OIL, 25% WATER, 70% MUD/ 5' GASSY OIL- 5% GASSY OIL, 95% OIL/ 62' GIP
 SAMPLER- 500 ML OIL/ 1500 ML WATER/ 2000 ML TOTAL/ PRESSURE- 350

ROCK TYPES

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

ACCESSORIES

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr

- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff
- Chlorite
- Dol
- Sand
- Slty

FOSSIL

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

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

STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Slstgrg
- Ssstgrg
- Carbsh

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

TEXTURE

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

OTHER SYMBOLS

POROSITY TYPE

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

SORTING

- Well
- Moderate
- Poor

ROUNDING

- Rounded
- Subrnd
- Subang

- Angular

OIL SHOWS

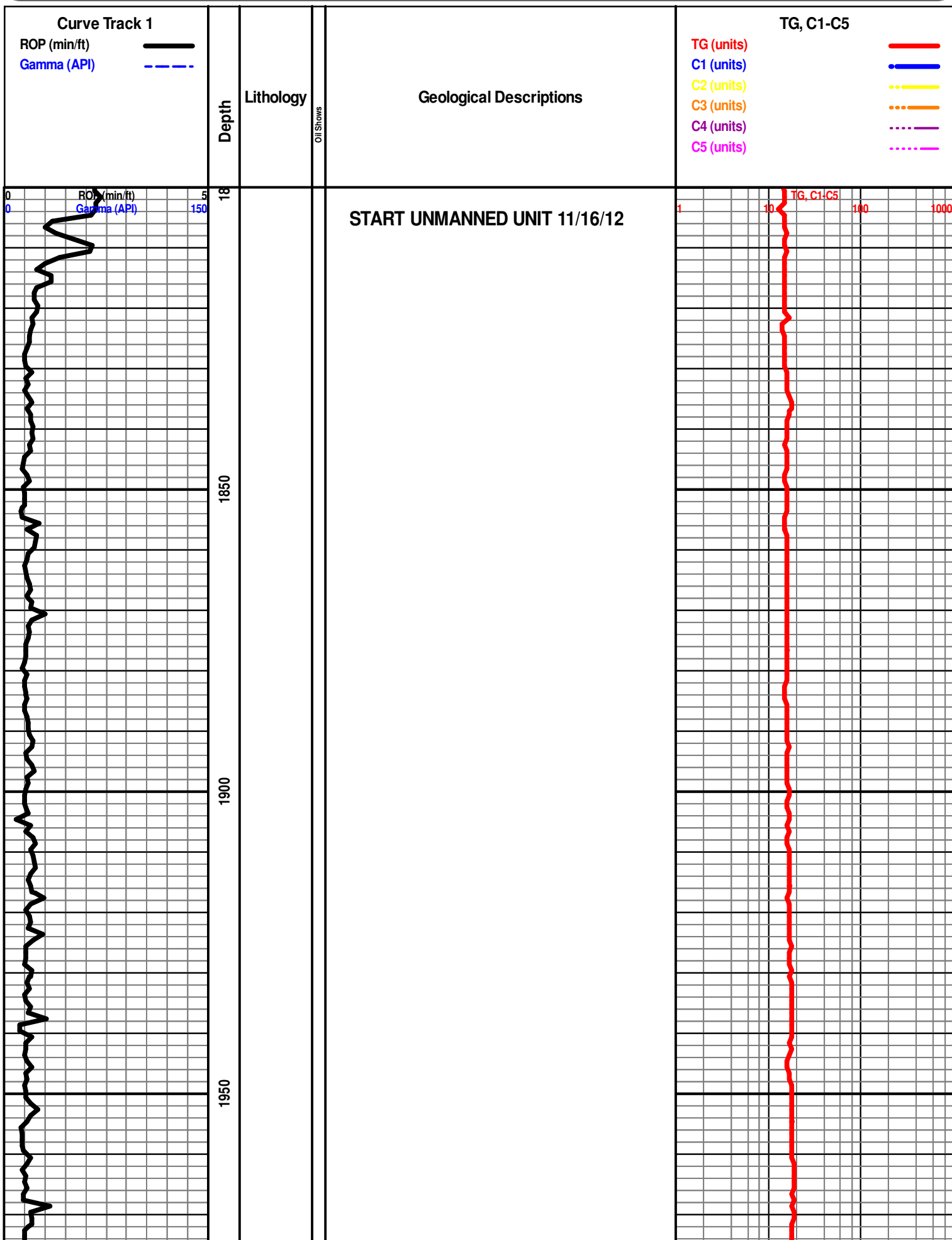
- Even
- Spotted
- Ques
- Dead
- Gas show

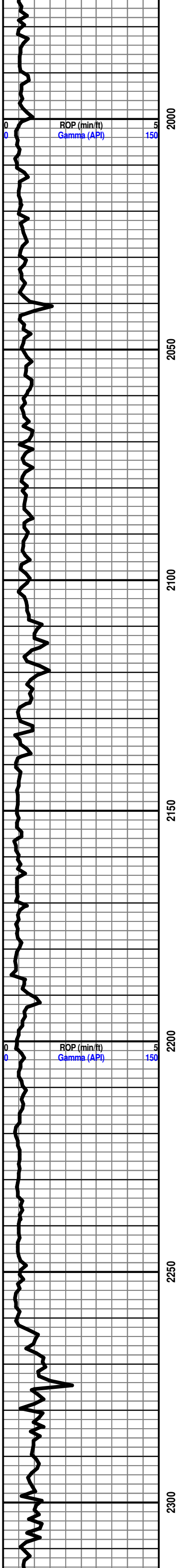
INTERVALS

- Core
- Dst
- Dst

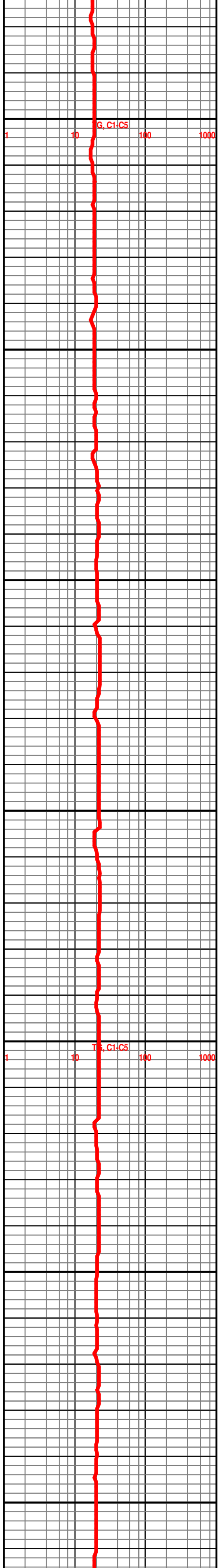
EVENTS

- Rft
- Sidewall

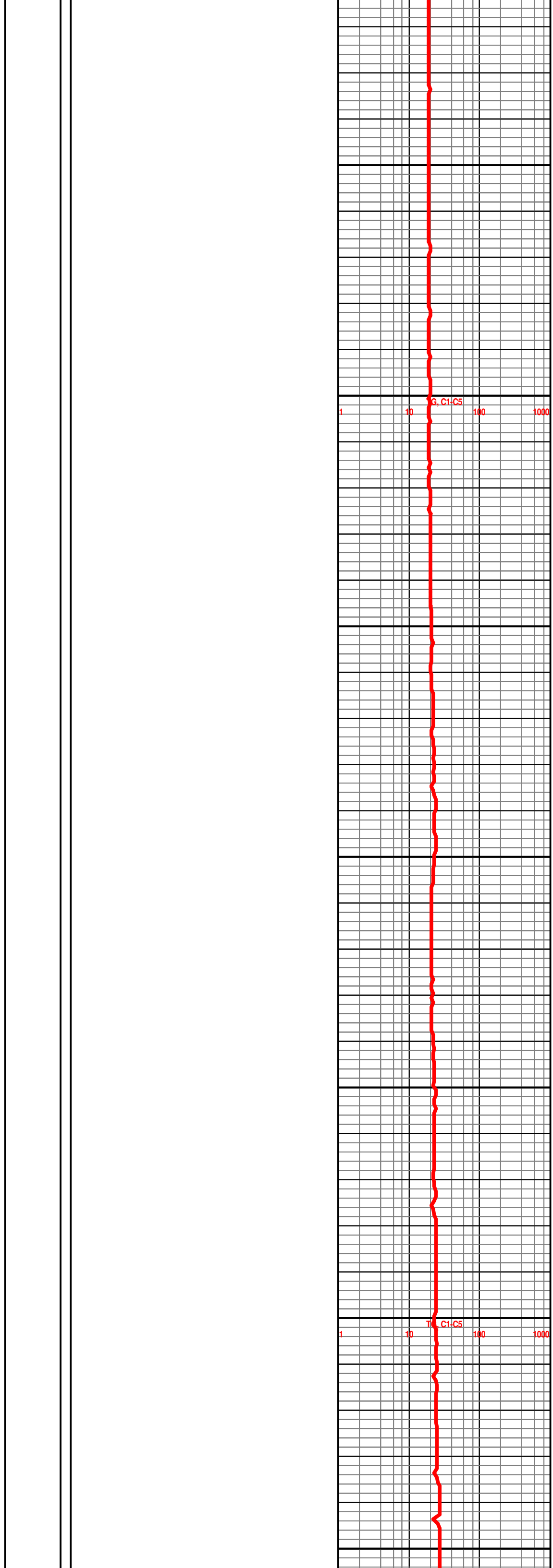
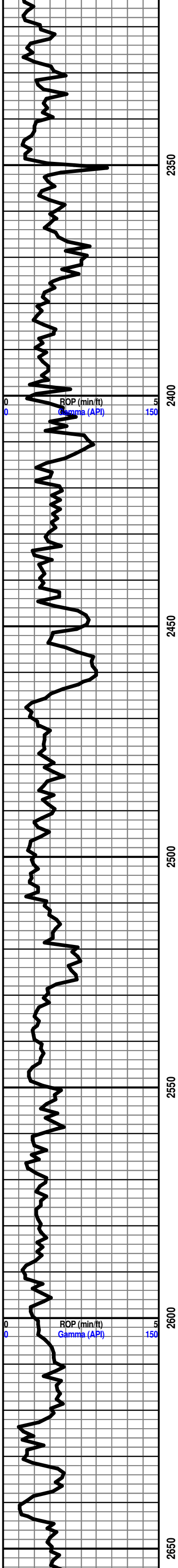


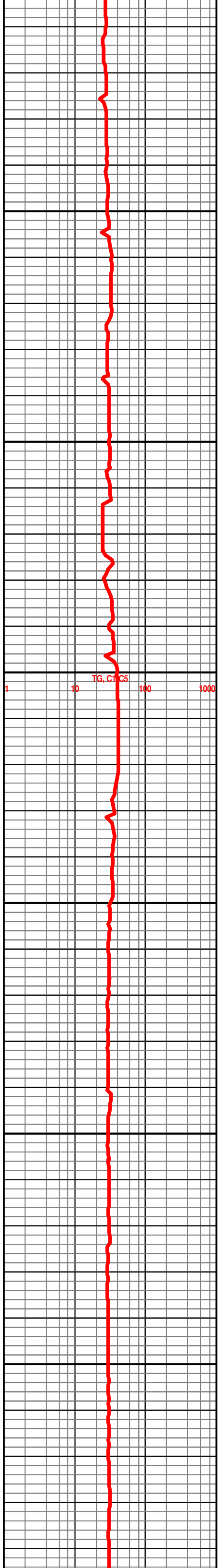
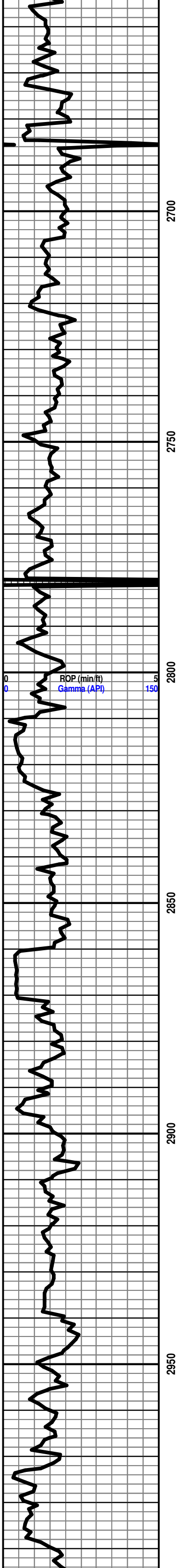


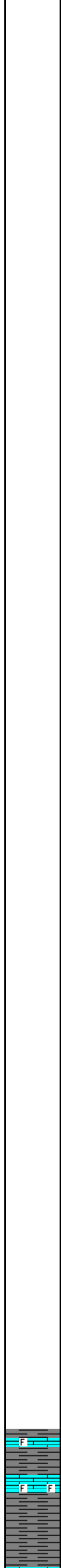
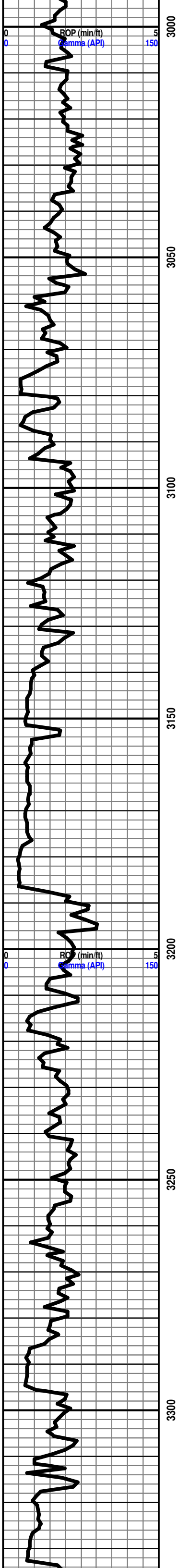
2000 2050 2100 2150 2200 2250 2300



1 10 100 1000







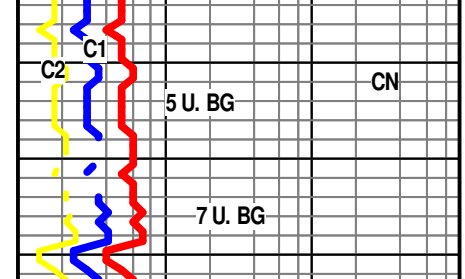
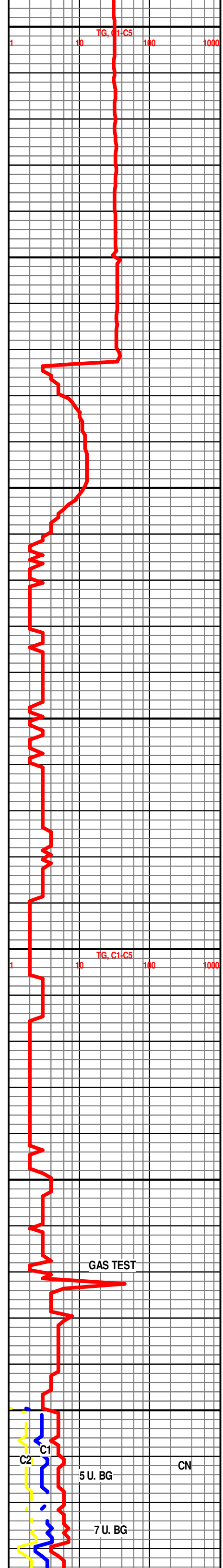
ELMONT 3187' -873'

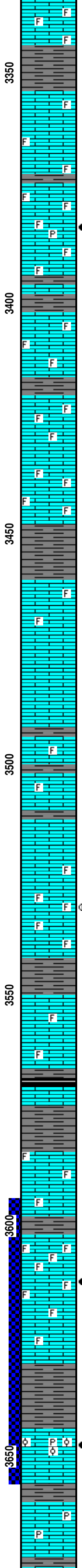
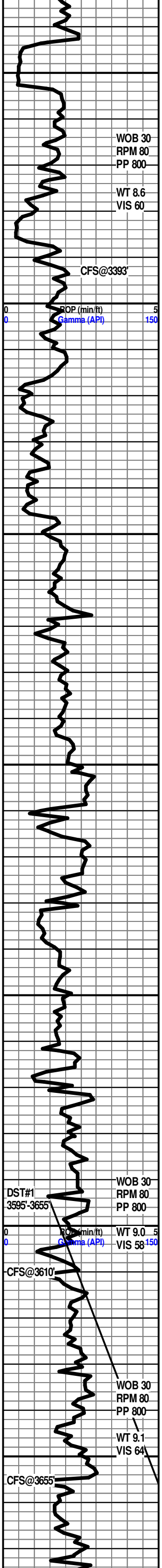
HOWARD 3296' -982'

START 24 HOUR MANNED UNIT 11/17/12

SH- GRN LT GY TO GY LMNT IP, FRM BLKY, SLTY TXT

SH- LT GY TO GY, FRM BLKY TO SFT GMMY, SLTY TXT





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

SH- GRN TO LT GY LMNT IP, FRM BLKY, SMTH TO SLTY TXT

TOPEKA 3353' -1039'

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

LS- GY TO TN LMNT IP, HD DNS TO BRIT IP, F TO MD XLN RE-XLN MTRX, IMBD FOSS FRG THRU, NO VIS FLO, PR VUG POR IN 2%, NO VIS SHOW

3382'-3385' LS- TN W/ LT TN OIL STN IN 60%, DK TN OIL STN IN 10%, HD DNS TO BRIT, F XLN RE-XLN MTRX, S-CHLKY IP, IMBD FOSS FRG THRU, SLI TR IMBD PYR IP, TR SFT WHT CHLK IN TRAY, DUL YEL GLD FLO IN 50%, PR TO FR MICRO VUG POR IN 10%, V/GD FL SH CUT IN 70%, V/GD MLKY BLU SLW STRM IN 70%, DK TN LCH ON DISH, NO OIL ODOR

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

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

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

SH- BRWN LT GY TO GY LMNT IP, FRM BLKY, SLTY TXT

LE COMPTON 3459' -1145'

LS- LT TN TO TN, HD DNS TO V/ BRIT, V/F TO F XLN SUCRO MTRX, TR IMBD FOSS FRG THRU, SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

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

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

LS- OFF WHT TO CRM, FRM DNS TO BRIT, V/F TO F XLN SUCRO MTRX, S-CHLKY, SLI TR IMBD CALC XLS IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- OFF WHT TO TN, HD DNS TO BRIT IP, F TO MD XLN RE-XLN MTRX, S-SUCRO, TR IMBD FOSS FRG IP, NO VIS FLO, PR INTR XLN POR IN 1%, NO VIS SHOW

3529'-3530' LS- GY TO TN W/ LT TN OIL STN IN 40%, HD DNS TO BRIT, F XLN SUCRO MTRX, S-CHLKY IP, IMBD FOSS FRG THRU, SLI TR IMBD PYR IP, DUL YEL GLD FLO IN 30%, PR INTR XLN POR IN 5%, FR FL SH CUT IN 40%, PR TO FR SLW STRM IN 40%, V/ LT TN LCH ON DISH, NO OIL ODOR

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

HEEBNER 3566' - 1252

SH- BLCK, SFT, CARB

SH- LT GY TO GY, FRM BLKY, SMTH TXT

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

LANSING 3601' -1287'

LS- CRM TO TN, HD DNS TO BRIT, F XLN SUCRO MTRX, S-CHLKY, ABDT IMBD FOSS FRG THRU, NO VIS FLO, PR INTR FOSS POR IN 3%, NO VIS CUT OR SHOW

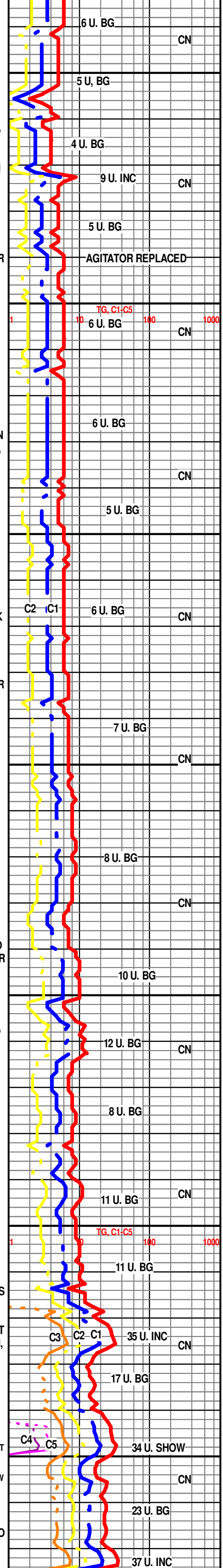
3610'-3613' LS- LT TN TO TN W/ TN OIL STN IN 60%, HD DNS TO BRIT IP, F TO MD XLN SUCRO MTRX, IMBD FOSS FRG THRU, BRT YEL GLD FLO IN 50%, DUL YEL GLD FLO IN 20%, PR TO FR INTR XLN POR IN 5%, PR TO FR FL SH CUT IN 60%, PR TO FR SLW STRM IN 60%, LT TN LCH ON DISH, FR OIL ODOR

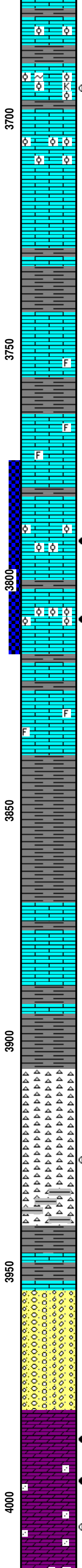
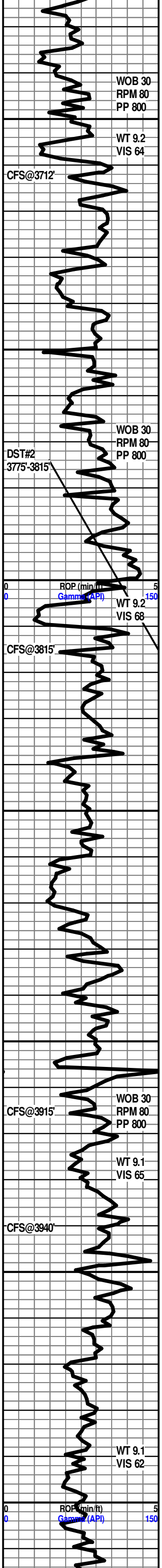
SH- BRWN GRN LT GY TO GY, FRM BLKY, SMTH TO SLTY TXT

LANSING "C" 3645' -1331'

3646'-3648' LS- OFF WHT TO CRM W/ TN OIL STN IN 80%, HD DNS TO BRIT IP, F XLN SUCRO MTRX, RE-XLN IP, ABDT IMBD OOL THRU, TR IMBD DISS PYR IP, BRT YEL GLD FLO IN 80%, PR TO FR INTR OOL POR IN 3%, PR TO FR MICRO VUG POR IN 5%, V/WK FL SH CUT IN 70%, PR TO FR SLW STRM IN 70%, V/LT TN LCH ON DISH, WK OIL ODOR

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





LANSING "F" 3677' -1363'
 LS- OFF WHT TO CRM, HD DNS TO BRIT IP, F XLN SUCRO MTRX, S-CHLKY IP, SCAT IMBD OOL THRU, SLI TR IMBD FOSS FRG IP, TR CALC XLS IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

3693'-3794' LS- CRM TO LT TN W/ TN OIL STN IN 15%, HD DNS TO BRIT IP, F XLN SUCRO MTRX, S-CHLKY, ABDT IMBD OOL THRU, SLI TR IMBD KAOL OR GLAUC, DUL YEL GLD FLO IN 40%, PR INTR OOL POR IN 3%, PR VUG POR IN 2%, PR FLSH CUT IN 20%, PR TO FR SLW STRM IN 40%, LT TN LCH ON DISH

LS- CRM TO LT TN, HD DNS TO BRIT, V/F TO F XLN SUCRO MTRX, S-CHLKY, ABDT IMBD OOL THRU, NO VIS FLO, V/ PR INTR OOL POR IN 3%, NO VIS SHOW

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

SH- GRN BRWN TO DK GY LMNT IP, FRM BLKY, SMTH TXT

LANSING "H" 3741' -1427'
 LS- CRM TO LT TN, HD DNS TO BRIT IP, F XLN RE-XLN MTRX, S-SUCRO IP, TR IMBD CALC XLS IP, SLI TR IMBD FOSS FRG IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

SH- GRN BRWN TO GY LMNT IP, FRM BLKY, SMTH TO SLTY TXT

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

3789'-3794' LS- CRM TO LT TN W/ TN OIL STN IN 60%, HD DNS TO BRIT IP, F XLN SUCRO MTRX, S-CHLKY IP, ABDT IMBD OOL THRU, TR CALC XLS IN TRAY, BRT YEL GLD FLO IN 65%, FR TO GD VUG POR IN 7%, WK FLSH CUT IN 60%, PR TO FR MLKY BLU SLW STRM IN 65%, NO LCH ON DISH, NO OIL ODOR

3805'-3810' LS- OFF WHT TO CRM W/ DK TN OIL STN IN 90%, HD DNS TO BRIT, F TO MD XLN SUCRO MTRX, ABDT IMBD OOL THRU, DUL YE GLD FLO IN 90%, FR TO GD INTR OOL POR IN 12%, FR TO GD FLSH CUT IN 80%, FR TO GD MLKY BLU SLW STRM IN 90%, TN LCH ON DISH, FR OIL ODOR

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

BKC 3838' -1524'
 SH- RED BRWN GRN TO GY, FRM BLKY, SMTH TXT

LS- LT TN TO TN, HD DNS TO BRIT IP, F XLN RE-XLN MTRX, S-SUCRO IP, SCAT IMBD CALC XLS IP, TR SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

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

TOP MARMATON 3906' -1592'
 3923'-3928' CHRT- OFF WHT TO CRM W/ TN OIL STN IN 20%, OFF WHT BRWN TO ORNG, V/HD DNS TO BRIT, CRYPTO TO V/F XLN MTRX, TR SCAT IMBD CALC XLS IP, TR SH ON ONE FACES, DUL YEL GLD FLO IN 15%, V/PR INTR XLN POR IN 3%, NO FLSH CUT, V/PR TO PR SLW STRM IN 10%, NO LCH ON DISH, NO OIL ODOR

BASE MARMATON 3940' -1626'
 SH- GRN BRWN TO GY, FRM BLKY, SMTH TXT

CONG- LS- OFF WHT TO LT TN, HD DNS TO BRIT, F XLN SUCRO MTRX, IMBD OOL THRU, NO VIS FLO, NO VIS POR, NO VIS SHOW, SH- YEL GRN BRW RED TO GY, FRM BLKY, SMTH TXT, CHRT- OFF WHT TN GY YEL TO ORNG MOTTLD IP

ARBUCKLE 3981' -1667'
 3984'-3987' DOLO- CRM TO LT TN W/ TN OIL STN IN 60%, HD DNS TO BRIT, F XLN SUCRO MTRX, ABDT IMBD SM TO MD S-ANG TO S-RND DOLO GRNS THRU, DUL YEL GLD FLO IN 60%, PR TO FR INTR GRN POR IN 10%, PR TO FR FLSH CUT IN 50%, FR TO GD MLKY BLU SLW STRM IN 70%, TN LCH ON DISH, WK OIL ODOR

3993'-3997' DOLO- CRM TO LT TN W/ TN OIL STN IN 90%, HD DNS TO BRIT, F XLN SUCRO MTRX, ABDT IMBD SM TO MD ANG TO S-ANG DOLO GRNS THRU, SLI TR IMBD QRTZ XLS IP, DUL YEL GLD FLO 45%, BRT YEL GLD FLO IN 15%, PR TO FR INTR GRN POR IN 10%, PR TO FR FLSH CUT IN 50%, FR TO GD MLKY BLU SLW STRM IN 70%, TN LCH ON DISH, WK OIL ODOR

