



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1083174
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: _____

1083174

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	J.A.E. ET AL 1-6
Doc ID	1083174

All Electric Logs Run

ARRAY IND
DEN-NEUT
MICRO
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
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

June 04, 2012

TOM FERTAL
Samuel Gary Jr. & Associates, Inc.
1515 WYNKOOP, STE 700
DENVER, CO 80202

Re: ACO1
API 15-051-26260-00-00
J.A.E. ET AL 1-6
SE/4 Sec.06-15S-17W
Ellis County, Kansas

Dear Production Department:

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

Should you have any questions or need additional information regarding subject well, please contact our office at 303-831-4673.

Respectfully,
TOM FERTAL



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: 2/14/2012
 Invoice # 231

P.O.#:
 Due Date: 3/15/2012
 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:
 J. A. E. ETAL 1-6

Description of Work:
 LONG SURFACE JOB

DRLG COMP W/O LOE GG

Account	8200.138
Well/Prospect	
Deck	
AFE	
Approval	<i>[Signature]</i>
Description	

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 963.85	No				
Common-Class A	425	\$ 5,473.06	Yes				
8 5/8" Basket	3	\$ 1,000.67	Yes				
Bulk Truck Matl-Material Service Charge	448	\$ 945.78	No				
Calcium Chloride	15	\$ 596.28	Yes				
8 5/8" Centralizer	3	\$ 202.67	Yes				
Premium Gel (Bentonite)	8	\$ 137.48	Yes				
Pump Truck Mileage-Job to Nearest Camp	12	\$ 126.41	No				
8 5/8" Top Rubber Plug	1	\$ 111.89	Yes				
Baffle Plate Aluminum, 8 5/8"	1	\$ 95.00	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	12	\$ 73.97	No				

Invoice Terms:

Net 30

SubTotal: \$ 9,727.05
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,459.06)

SubTotal for Taxable Items:	\$ 6,474.48
SubTotal for Non-Taxable Items:	\$ 1,793.51
Total:	\$ 8,267.99
Tax:	\$ 407.89
Amount Due:	\$ 8,675.88
Applied Payments:	
Balance Due:	\$ 8,675.88

6.30% Ellis 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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RECEIVED

FEB 23 2012

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

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. 231

Date	2/10/12	Sec.	6	Twp.	15	Range	17	County	Ellis	State	KS	On Location		Finish	8:30 PM
Lease	J.A.E. ET AL	Well No.	1-6			Location Toulon Rd + Antonino Rd, 1/4 S, W into									

Contractor	Discovery Drilling Rig # 2				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	Surface				Charge To	Scam Gary Jr. + Associates, Inc.										
Hole Size	2 1/4"		T.D.	1152'		Street										
Csg.	8 5/8" 23#		Depth	1152'		City	State									
Tbg. Size			Depth			The above was done to satisfaction and supervision of owner agent or contractor.										
Tool			Depth			Cement Amount Ordered 11255x Com 3 1/2 CC 2 1/2 gel										
Cement Left in Csg.	39'		Shoe Joint	39'		K# Flowok										
Meas Line			Displace	71 Bbk.		Common 425										

EQUIPMENT

Pumptrk	9	No.	Cementer Helper	Paul		
Bulktrk	12	No.	Driver	Matt		
Bulktrk	pu	No.	Driver	Brian		

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal 106 #
Centralizers 1, 16, 24	Kol-Seal
Baskets 2, 17, 25	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
Est. Circ.	Sand
Mix 4255x	Handling 448
Displace	Mileage 4 5/8"
Land Plug	FLOAT EQUIPMENT
Cement Circulated	Guide Shoe
	Centralizer 3
	Baskets 3
	AFU Inserts
	Float Shoe
	Latch Down
	Raffle Plate + Rubber Plug
	Head + Manifold
	Pumptrk Charge
	Mileage 12

Thank You!!

X 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: 2/21/2012
 Invoice # 630

P.O.#:
 Due Date: 3/22/2012
 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:
 J.A.E. ET AL 1-6

Description of Work:
 PLUG JOB

DRLG COMP W/O LOE GG

Account	8200.138
Well/Prospect	
Deck	
AFE	
Approval	<i>KG</i>
Description	

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 1,239.23	Yes				
Common-Class A	126	\$ 1,668.96	Yes				
Bulk Truck Matl-Material Service Charge	217	\$ 471.20	Yes				
POZ Mix-Standard	84	\$ 419.52	Yes				
Pump Truck Mileage-Job to Nearest Camp	12	\$ 130.03	Yes				
Premium Gel (Bentonite)	7	\$ 123.73	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	12	\$ 76.09	Yes				
Dry Hole Plug	1	\$ 60.80	Yes				

Invoice Terms:

Net 30

	SubTotal:	\$	4,189.55
	Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:	\$	(628.43)
<hr/>			
	SubTotal for Taxable Items:	\$	3,561.12
	SubTotal for Non-Taxable Items:	\$	-
<hr/>			
	Total:	\$	3,561.12
	Tax:	\$	224.35
	Amount Due:	\$	3,785.47
	Applied Payments:		
	Balance Due:	\$	3,785.47

6.30% Ellis 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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FEB 24 2012

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

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. 630

Date	2-16-12	Sec.	6	Twp.	15	Range	17	County	Ellis	State	KS	On Location		Finish	5:30
Lease	J.A.E. ETAL			Well No.	1-6			Location	Tarkenton Hwy 40 S to Antonio Rd						
Contractor	Discovery #2							Owner	Y.S. Winto						
Type Job	Rotary Plug							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.							
Hole Size	7 7/8			T.D.	3660			Charge To	Sam Gary Jr & Assoc.						
Csg.				Depth				Street							
Tbg. Size				Depth				City	State						
Tool.				Depth											
Cement Left in Csg.				Shoe Joint				The above was done to satisfaction and supervision of owner agent or contractor.							
Meas Line				Displace				Cement Amount Ordered	210 60/40 40/100 1/4" FFb						

EQUIPMENT

Pumptrk	5	No.	Cement Helper Craig	Common	126
Bulktrk		No.	Driver Brett	Poz. Mix	84
Bulktrk	7	No.	Driver Rick	Gel.	7

JOB SERVICES & REMARKS

Remarks:	Calcium
Rat Hole 30	Hulls
Mouse Hole 15	Salt
Centralizers	Flowseal 50#
Baskets	Kol-Seal
D/V or Port Collar	Mud CLR 48
1st 3547 25.5K	CFL-117 or CD110 CAF 38
2nd 1200 50.5K	Sand
3rd 475 80.5K	Handling
4th 40 10.5K	Mileage

FLOAT EQUIPMENT

	Guide Shoe
	Centralizer
	Baskets 8 7/8 wooden plug
	AFU Inserts
	Float Shoe
	Latch Down
	Pumptrk Charge plug
	Mileage 12

[Handwritten Signature]

Tax
Discount
Total Charge

X Signature



DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr. and Associates Inc**

1515 Wynkoop, STE 700
Denver CO 80202

ATTN: Tom Fertal

J.A.E. et al #1-6

6-15s-17w Ellis,KS

Start Date: 2012.02.14 @ 19:45:38

End Date: 2012.02.15 @ 04:32:08

Job Ticket #: 46867 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.02.16 @ 11:33:16



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. and Associates Inc

6-15s-17w Ellis,KS

1515 Wynkoop, STE 700
Denver CO 80202

J.A.E. et al #1-6

Job Ticket: 46867

DST#: 1

ATTN: Tom Fertal

Test Start: 2012.02.14 @ 19:45:38

GENERAL INFORMATION:

Formation: **KC "C-G"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:16:38
 Time Test Ended: 04:32:08
 Interval: **3301.00 ft (KB) To 3376.00 ft (KB) (TVD)**
 Total Depth: 3376.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Brett Dickinson
 Unit No: 59
 Reference Elevations: 1980.00 ft (KB)
 1972.00 ft (CF)
 KB to GR/CF: 8.00 ft

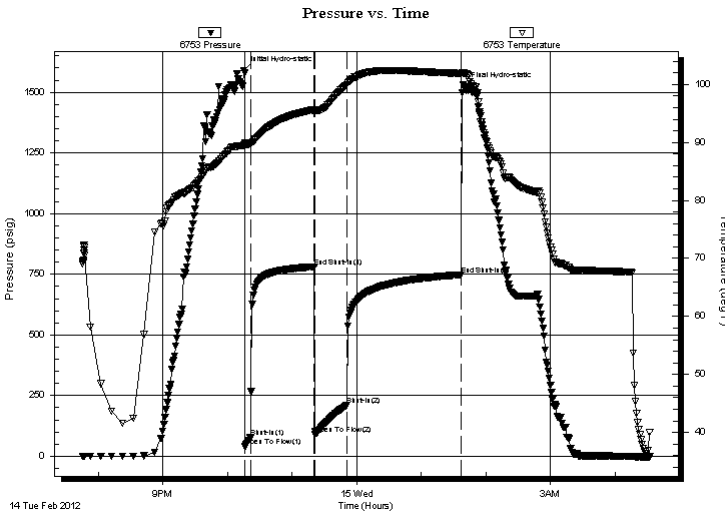
Serial #: 6753

Inside

Press @ Run Depth: 211.49 psig @ 3302.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.02.14 End Date: 2012.02.15 Last Calib.: 2012.02.15
 Start Time: 19:45:43 End Time: 04:32:08 Time On Btm: 2012.02.14 @ 22:15:08
 Time Off Btm: 2012.02.15 @ 01:39:38

TEST COMMENT: 5min-IF-4.5" blow
 60min-ISI-No blow
 30min-FF-5" blow
 105min-FSI-No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1590.17	89.50	Initial Hydro-static
2	39.37	89.59	Open To Flow (1)
7	76.83	89.75	Shut-In (1)
66	781.23	95.65	End Shut-In (1)
67	90.58	95.46	Open To Flow (2)
96	211.49	100.01	Shut-In (2)
202	748.03	101.88	End Shut-In (2)
205	1523.41	101.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
375.00	Water	4.99
45.00	MCW 30%M 70%W	0.63

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr. and Associates Inc

6-15s-17w Ellis,KS

1515 Wynkoop, STE 700
Denver CO 80202

J.A.E. et al #1-6

Job Ticket: 46867

DST#: 1

ATTN: Tom Fertal

Test Start: 2012.02.14 @ 19:45:38

Tool Information

Drill Pipe:	Length: 3251.00 ft	Diameter: 3.80 inches	Volume: 45.60 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 57000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3301.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	75.00 ft			
Tool Length:	108.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Drill Pipe	5.00			3273.00	
Recorder	0.00	8319	Fluid	3273.00	
Change Over Sub	1.00			3274.00	
Shut In Tool	5.00			3279.00	
Hydraulic tool	5.00			3284.00	
Jars	5.00			3289.00	
Safety Joint	2.00			3291.00	
Packer	5.00			3296.00	33.00 Bottom Of Top Packer
Packer	5.00			3301.00	
Stubb	1.00			3302.00	
Recorder	0.00	6753	Inside	3302.00	
Recorder	0.00	8369	Outside	3302.00	
Perforations	6.00			3308.00	
Change Over Sub	1.00			3309.00	
Drill Pipe	63.00			3372.00	
Change Over Sub	1.00			3373.00	
Bullnose	3.00			3376.00	75.00 Bottom Packers & Anchor
Total Tool Length:	108.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. and Associates Inc

6-15s-17w Ellis,KS

1515 Wynkoop, STE 700
Denver CO 80202

J.A.E. et al #1-6

Job Ticket: 46867

DST#: 1

ATTN: Tom Fertal

Test Start: 2012.02.14 @ 19:45:38

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: 160000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.80 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
375.00	Water	4.987
45.00	MCW 30%M 70%W	0.631

Total Length: 420.00 ft Total Volume: 5.618 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

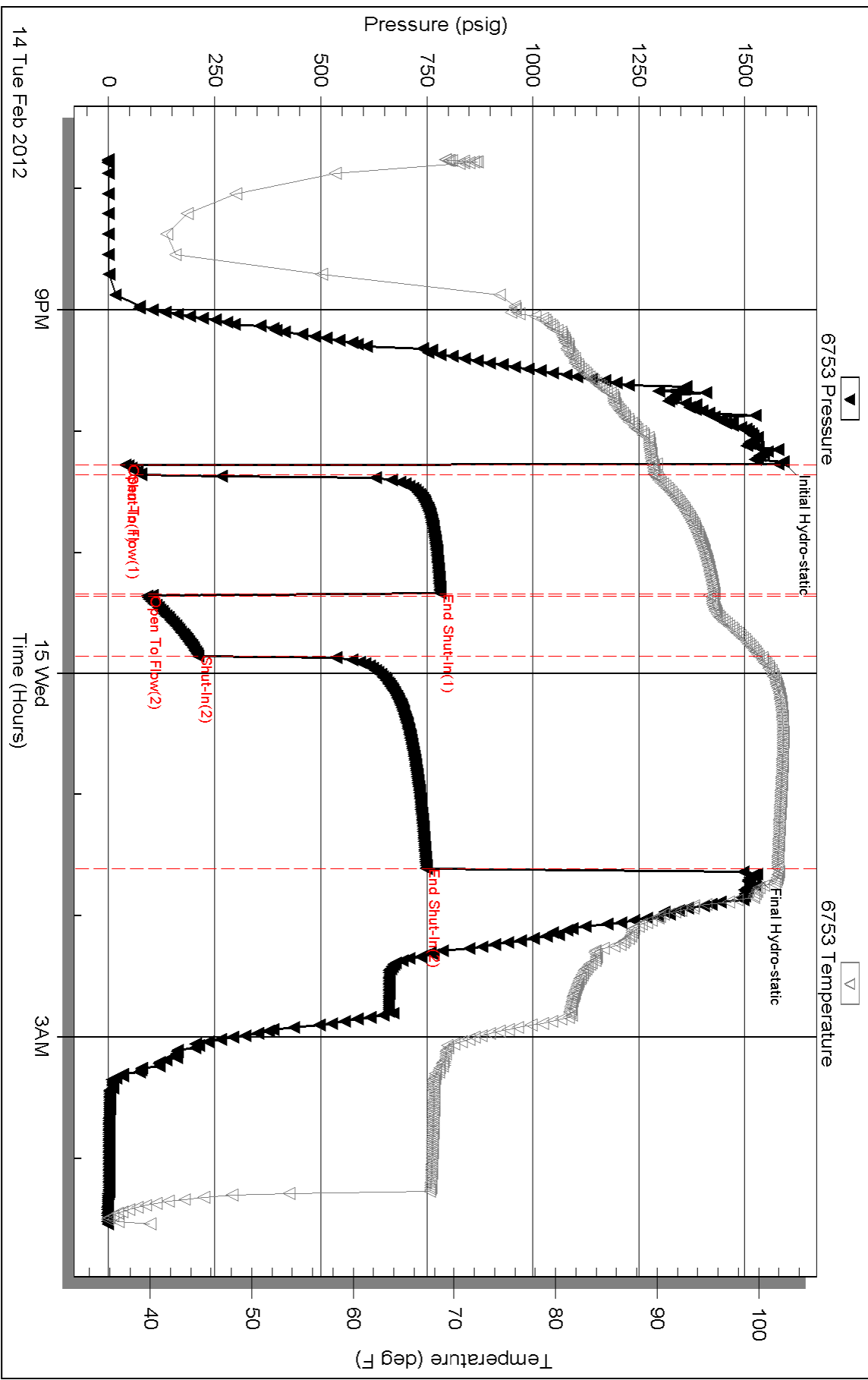
Laboratory Name:

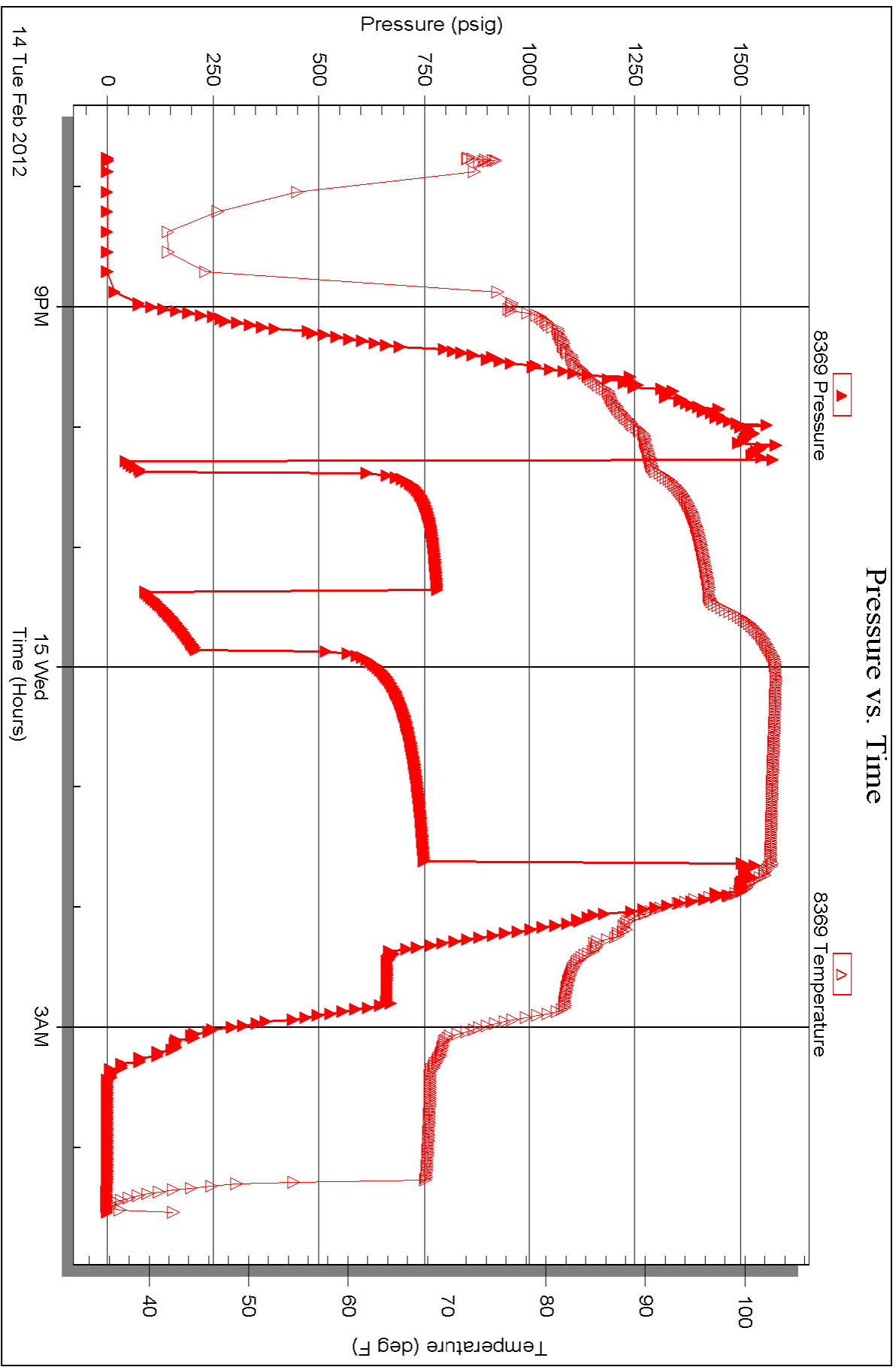
Laboratory Location:

Recovery Comments: RW .1 @ 40

Sampler Data 2750ml Water 250ml Mud

Pressure vs. Time







TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

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FEB 16 2012

Test Ticket

NO. 46867

4/10

BY: _____

Well Name & No. J.A.E. et al #1-6 Test No. 1 Date 2/14/12
 Company Samuel Gary, Jr. and Associates Elevation 1980 KB 1972 GL
 Address 1515 Wynkoop, STE 200 Denver CO 80202
 Co. Rep / Geo. Tom Fertal Rig Discovery #2
 Location: Sec. 6 Twp. 15S Rge. 17W Co. Ellis State KS

Interval Tested 3301-3376 Zone Tested AC "C-G"
 Anchor Length 75 Drill Pipe Run _____ Mud Wt. 8.8
 Top Packer Depth 3296 Drill Collars Run 30 Vis 54
 Bottom Packer Depth 3301 Wt. Pipe Run _____ WL 6.8
 Total Depth 3376 Chlorides 3000 ppm System LCM _____
 Blow Description IF-BOBIN 4 1/2 min
FSI- No blow
FF-BOBIN 5 min
FSI- No blow

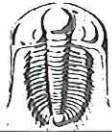
Rec	Feet of	%gas	%oil	%water	%mud
<u>375</u>	<u>water</u>				
<u>45</u>	<u>MCW</u>			<u>70</u>	<u>30</u>
_____	_____				
_____	_____				

Rec Total 420 BHT 101 Gravity _____ API RW .1 @ 40 °F Chlorides 160,000 ppm

(A) Initial Hydrostatic <u>1590</u>	<input checked="" type="checkbox"/> Test <u>1125'</u>	T-On Location <u>19:20</u>
(B) First Initial Flow <u>39</u>	<input checked="" type="checkbox"/> Jars <u>250'</u>	T-Started <u>19:45</u>
(C) First Final Flow <u>77</u>	<input checked="" type="checkbox"/> Safety Joint <u>75'</u>	T-Open <u>22:10</u>
(D) Initial Shut-In <u>781</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>1:30</u>
(E) Second Initial Flow <u>91</u>	<input type="checkbox"/> Hourly Standby <u>1/4 hr 25'</u>	T-Out <u>4:30</u>
(F) Second Final Flow <u>211</u>	<input checked="" type="checkbox"/> Mileage <u>10 x 2 28' x 2</u>	Comments <u>2116 9AM loaded tools</u>
(G) Final Shut-In <u>748</u>	<input checked="" type="checkbox"/> Sampler <u>250'</u> <u>50'</u>	
(H) Final Hydrostatic <u>1523</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Open <u>5</u>	<input checked="" type="checkbox"/> Extra Recorder <u>200'</u>	Sub Total <u>800'</u>
Initial Shut-In <u>60</u>	<input checked="" type="checkbox"/> Day Standby <u>2.8 hrs</u>	Total <u>2781'</u>
Final Flow <u>30</u>	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
Final Shut-In <u>105</u>	Sub Total <u>1981'</u>	

Approved By _____ Our Representative Brian Paul

Trilobite Testing Inc. shall not be liable for damaged or any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING, INC.

P.O. Box 362 • Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 46867 Date 2-14-12

Company Name Sam Gary Sr. & ASS.

Lease J.A.E. etal #1-6 Test No. 1

County Ellis Sec. 6 Twp. 15S Rng. 17W

SAMPLER RECOVERY

Gas _____ ML
 Oil _____ ML
 Mud 250 ML
 Water 2750 ML
 Other _____ ML
 Pressure 425 PSI ML
 Total 3000 ML

PIT MUD ANALYSIS

Chlorides 3,000 ppm.
 Resistivity _____ ohms @ _____ F
 Viscosity 54
 Mud Weight 8.8
 Filtrate 6.8
 Other _____

SAMPLER ANALYSIS

Resistivity .1 ohms @ 40 F
 Chlorides 160,000 ppm.
 Gravity _____ corrected @60F

PIPE RECOVERY

TOP
 Resistivity _____ ohms @ _____ F
 Chlorides _____ ppm.

MIDDLE
 Resistivity _____ ohms @ _____ F
 Chlorides _____ ppm.

BOTTOM
 Resistivity _____ ohms @ _____ F
 Chlorides _____ ppm.



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

Well Name: J.A.E # 1-6
Location: Sec 6 15s 17w, Ellis County, Kansas
License Number: 15-051-26260-000
Spud Date: Feb. 9th 2012
Surface Coordinates: 2550' Fsl & 300' Fel
Region: Wildcat
Drilling Completed: Feb. 16, 2012

Bottom Hole
Coordinates:
Ground Elevation (ft): 1972' K.B. Elevation (ft): 1980'
Logged Interval (ft): 1500' To: 3660' Total Depth (ft): 3660'
Formation: Lansing, Arbuckle
Type of Drilling Fluid:

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

OPERATOR

Company: Samuel Gary Jr. & Assoc.
Address: 1515 Wynkoop, # 700
Denver, Co. 80202
Co. Geo.: Tom Fertal

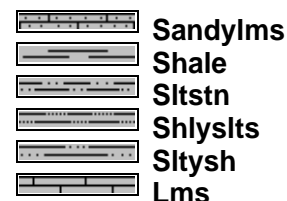
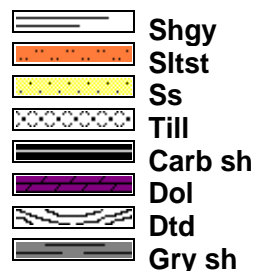
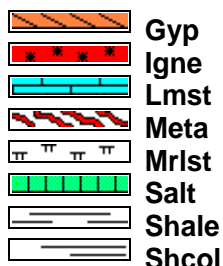
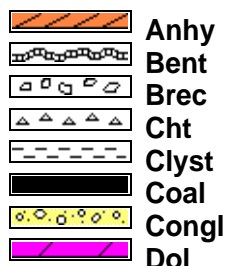
GEOLOGIST

Name: Schuyler Hedrick/Tim Hedrick
Company: Earth Tech OGL, Inc.
Address: PO Box 683
Hooker, Oklahoma 73945
888-543-8378 cell 580-754-0231

DST's Report

DST#1 3301-3376' 5 60 30 105
IF-BOB IN 4.5 MIN/ ISI-NB/ FF-BOB IN 5 MIN/ FSI- NB
IH-1590, FH-1523/ IF-39 TO 77, FF-91 TO 211/ISI-781, FSI-748
RECOVERED- 420' TF/ 45' MCW, 70%W., 40% M., 375 ' WATER BHT 101 DEG, PIT CHL-3000, TEST CHLOR-
81,000 BY MUD MAN
SAMPLER- 250 ML MUD, 2750 ML WATER, 425 PSI

ROCK TYPES

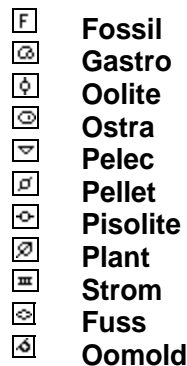
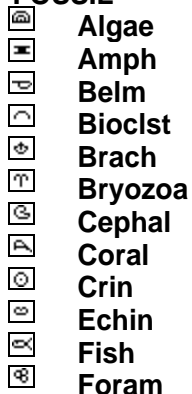


ACCESSORIES

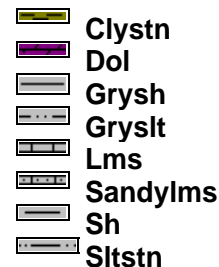
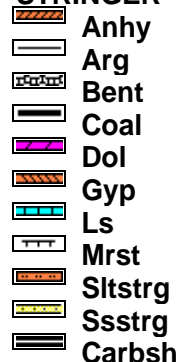
MINERAL



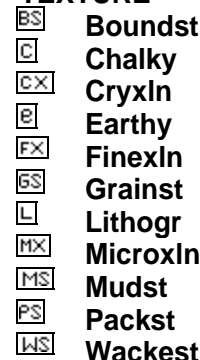
FOSSIL



STRINGER

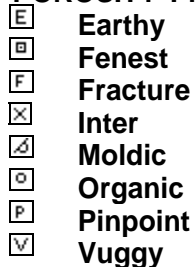


TEXTURE



OTHER SYMBOLS

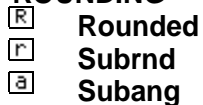
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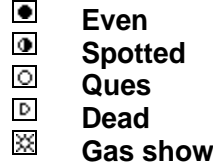
SORTING



ROUNDING



OIL SHOWS

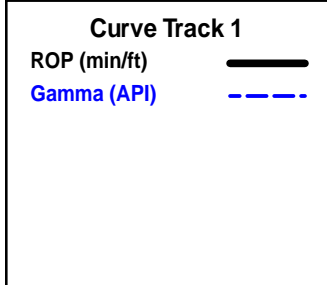


INTERVALS



EVENTS



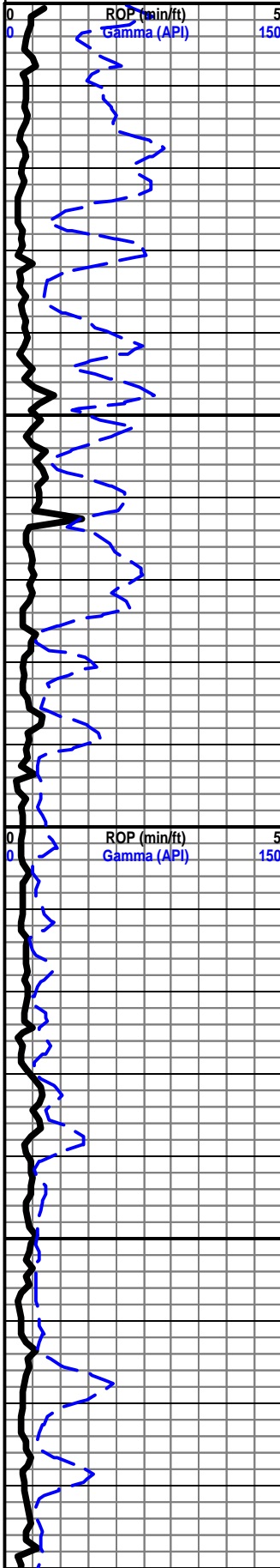
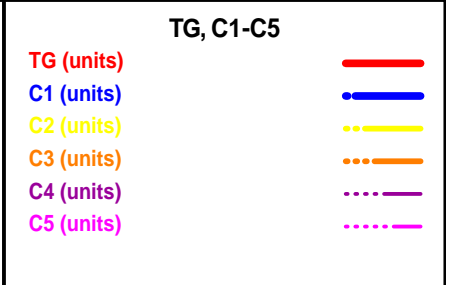


Depth

Lithology

Oil Shows

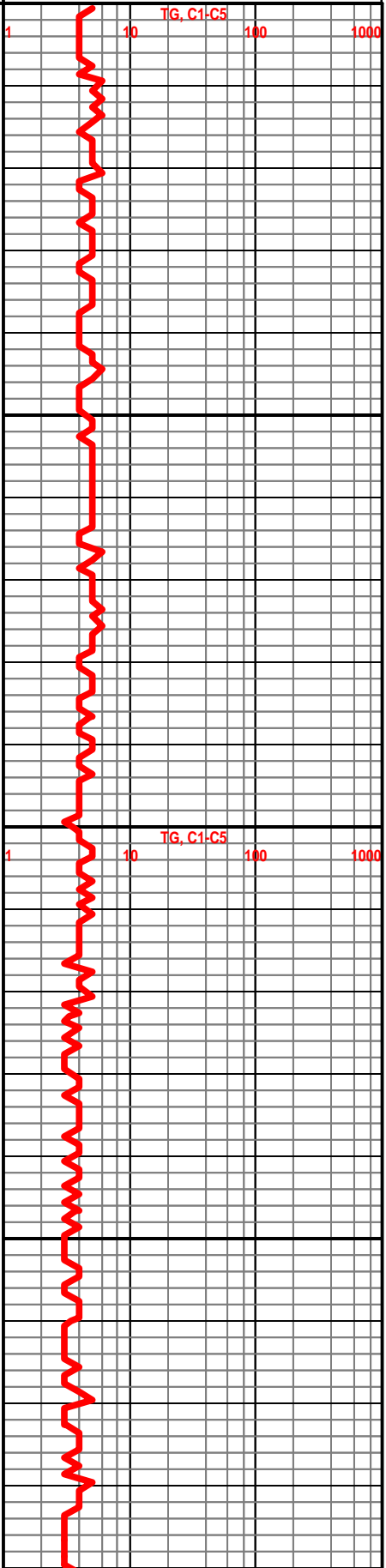
Geological Descriptions

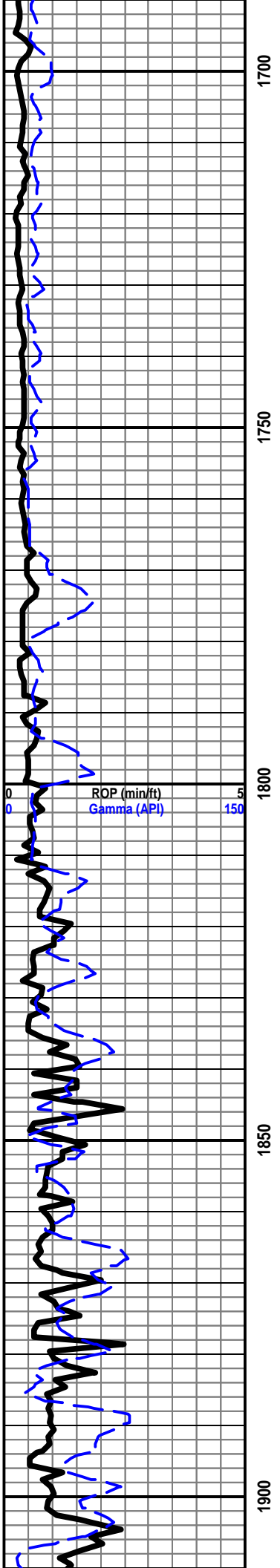


START UNMANNED 2/11/2012

Discovery Rig #2

Geological Descriptions





1700

1750

1800

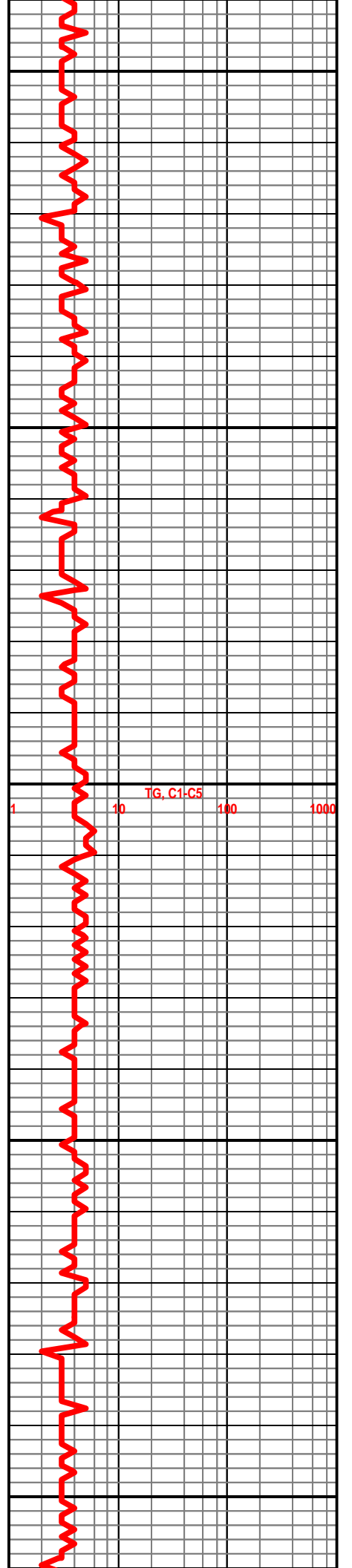
1850

1900

ROP (min/ft)
Gamma (API)

0
0

5
150



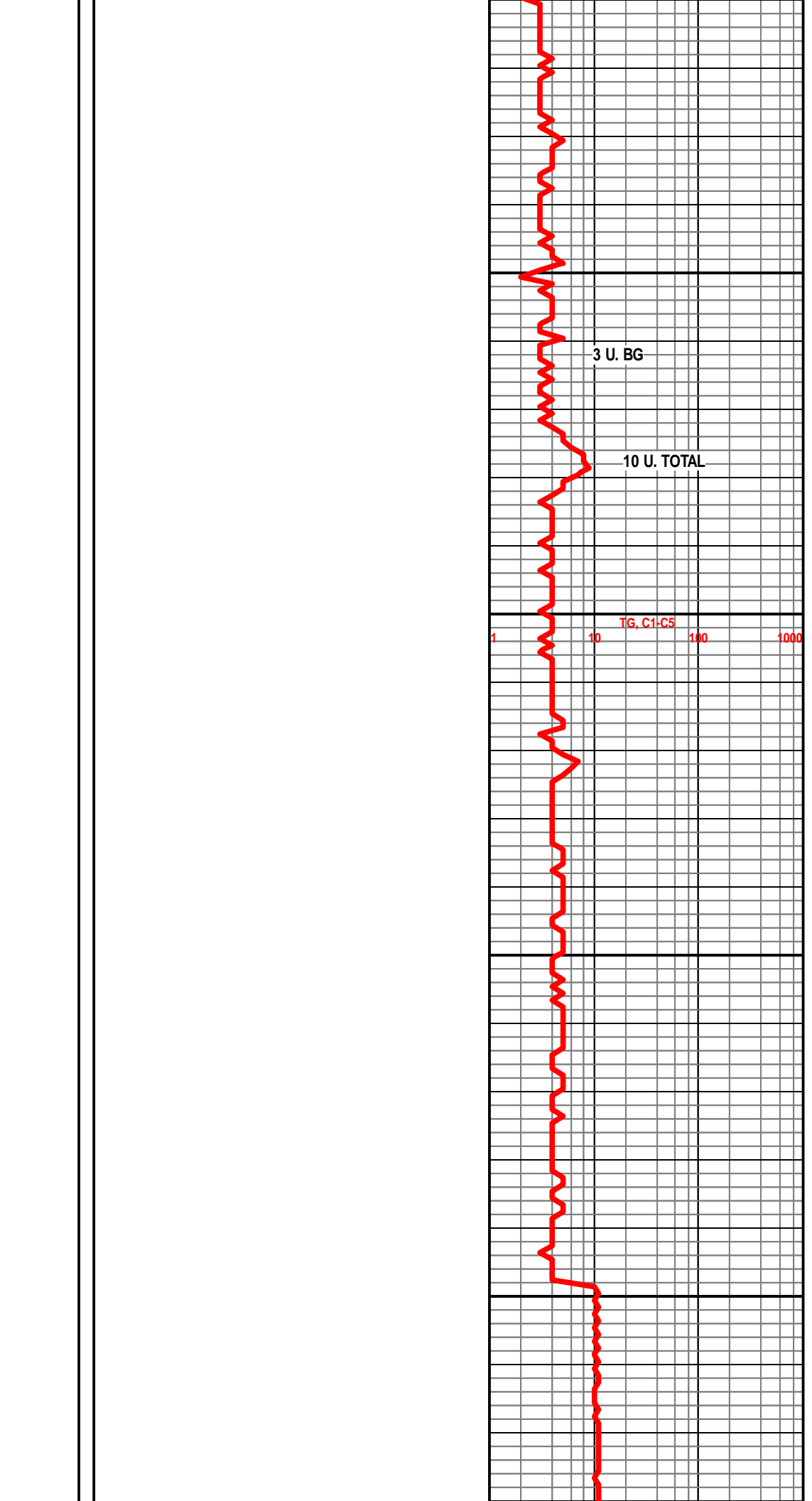
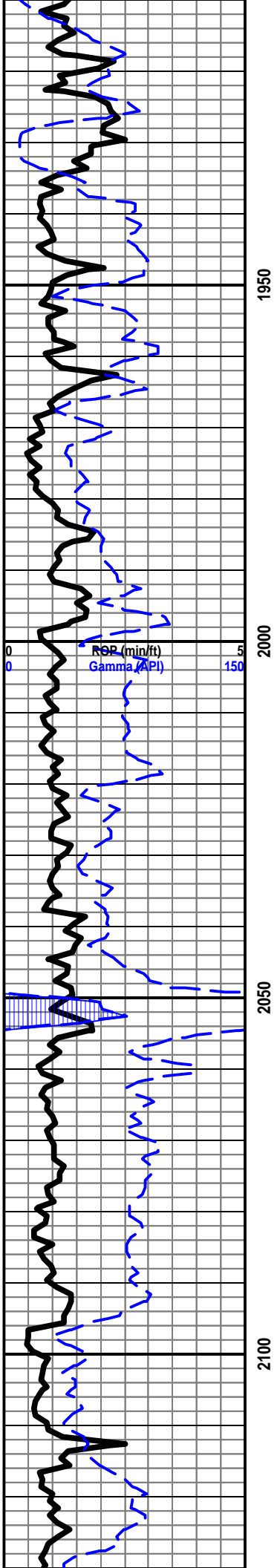
TG, C1-C5

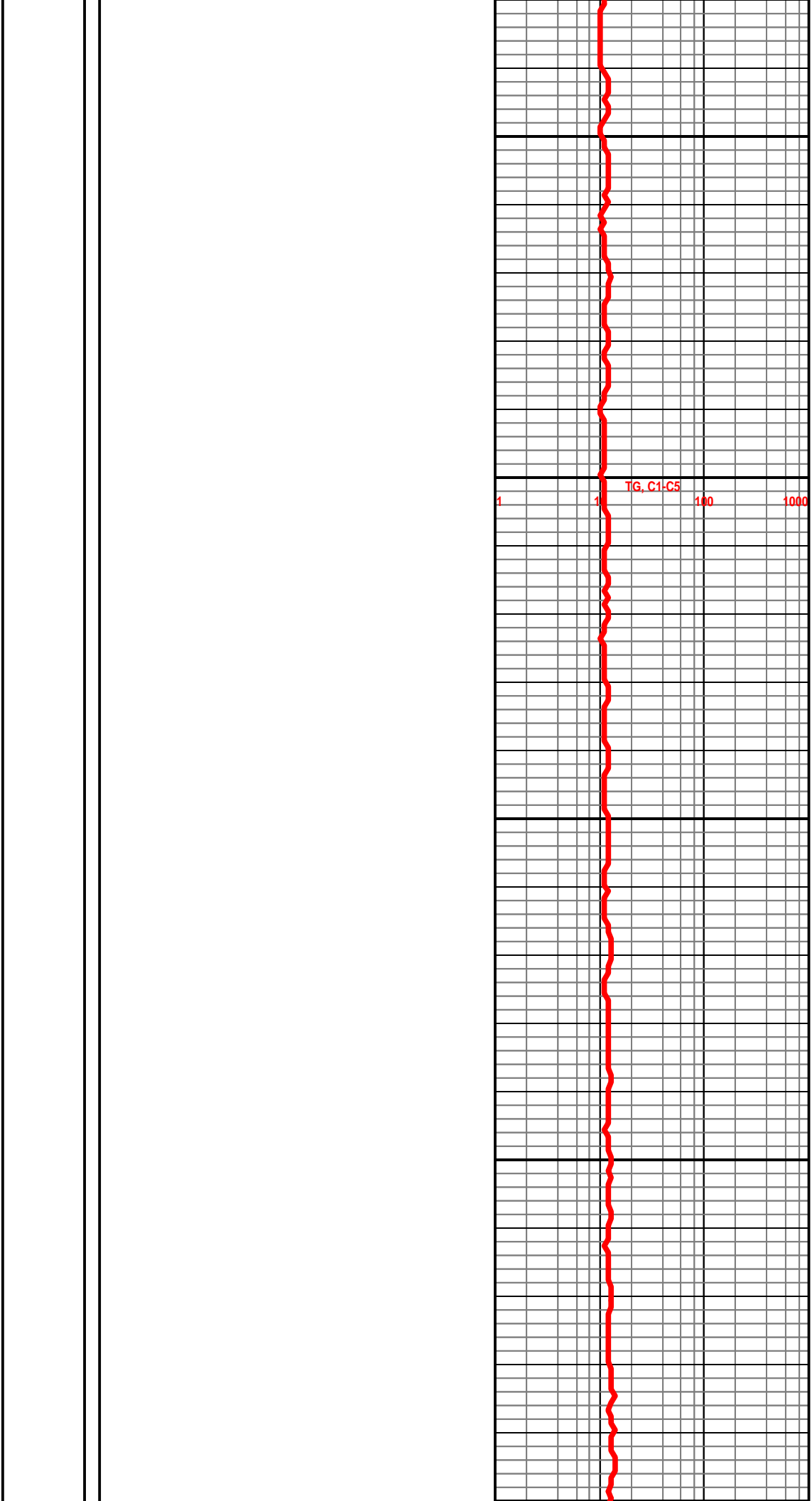
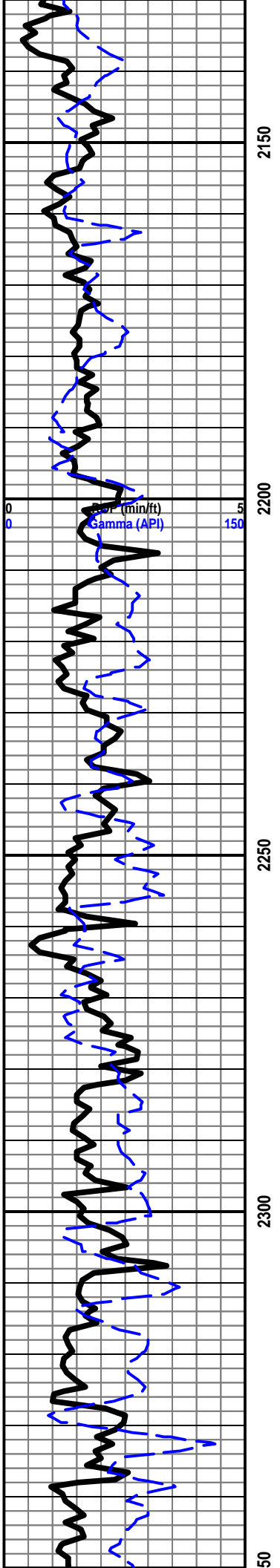
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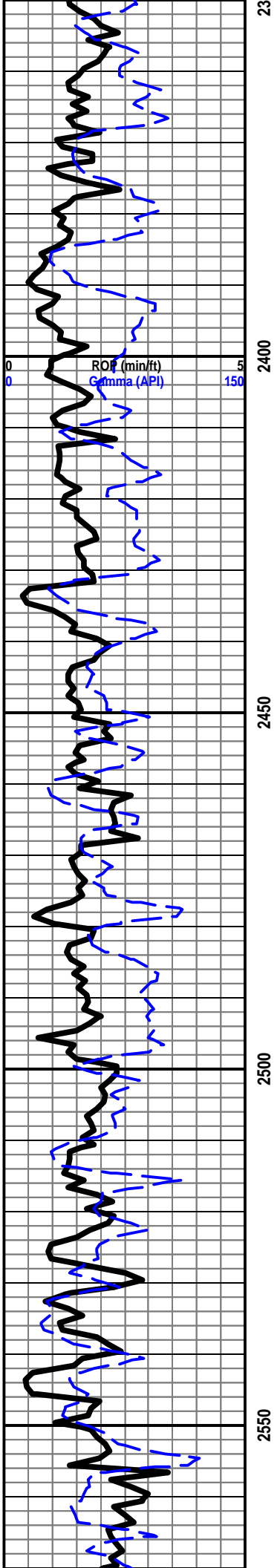
10

100

1000







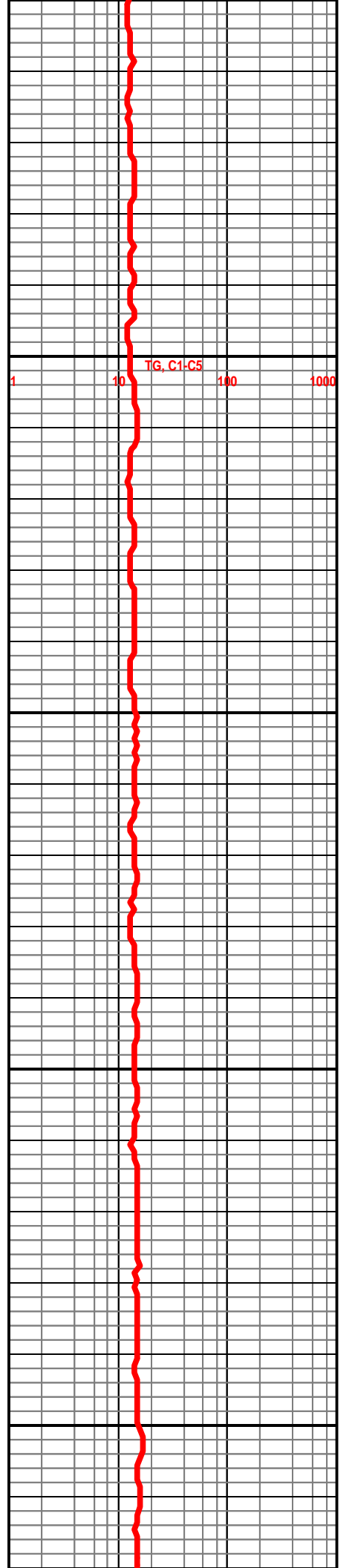
23

2400

2450

2500

2550



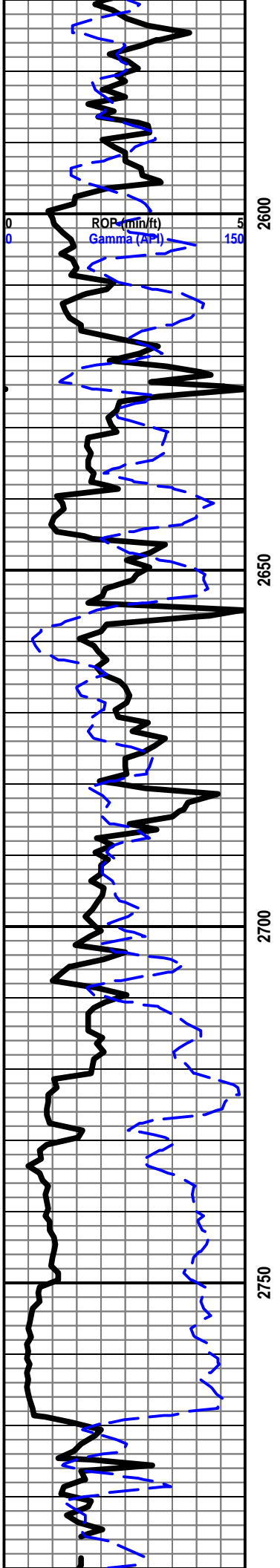
1

TG, C1-C5

10

100

1000



2600

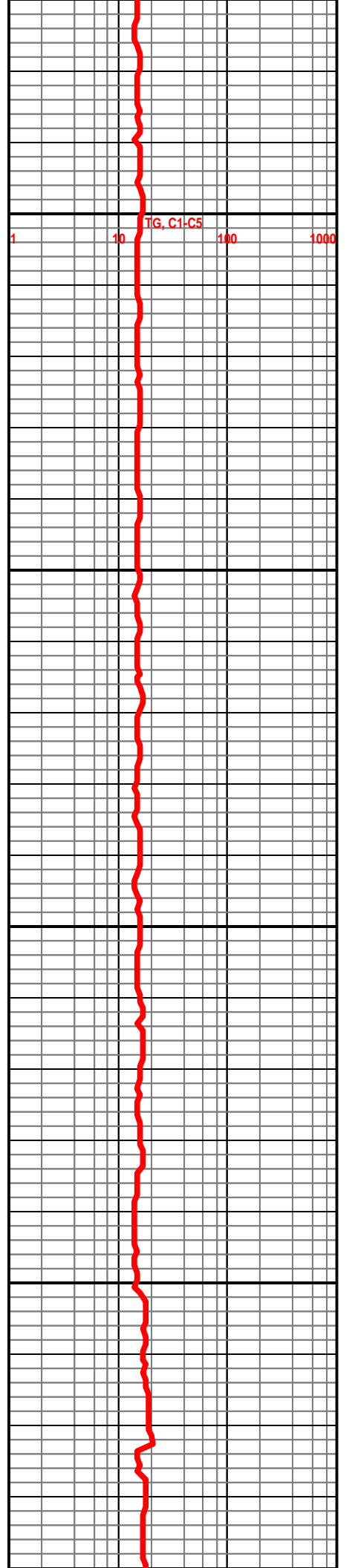
2650

2700

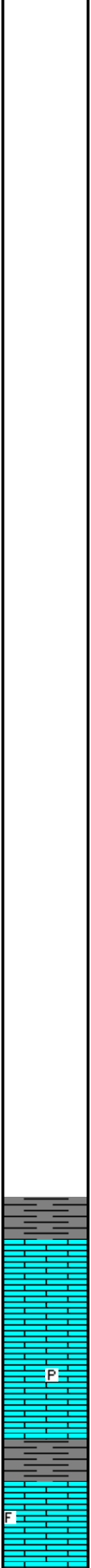
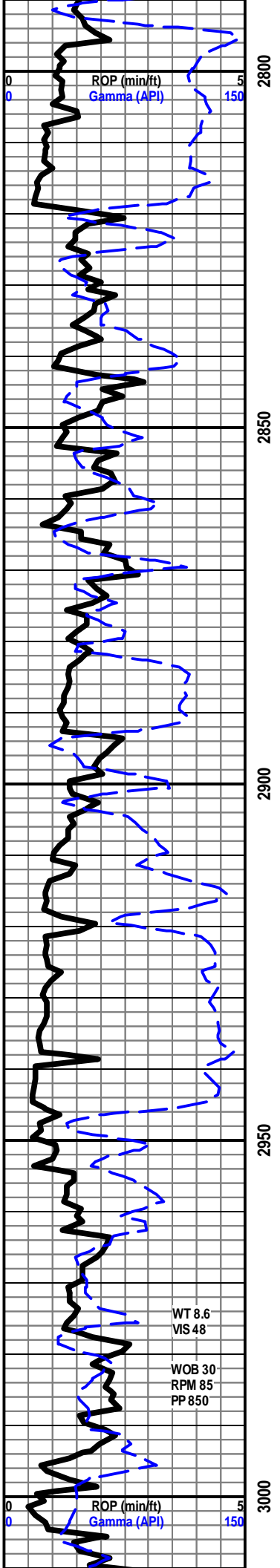
2750

ROP (min/ft)
Gamma (API)

BRS 2769' - 789'



TG, C1-C5



HOWARD 2945'-965'

START 24 HR. MANNED UNIT 02/13/12

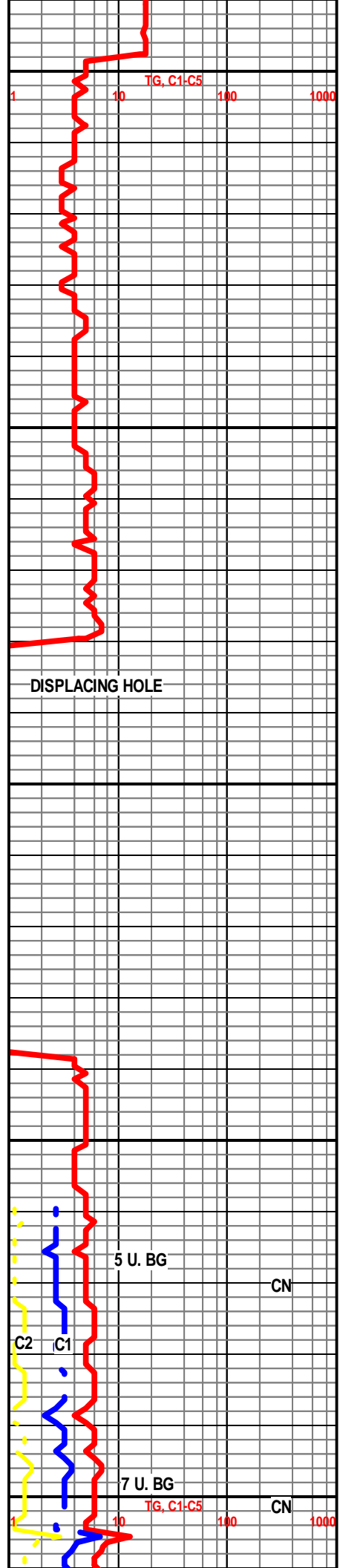
SH- LT GY TO GY, SFT TO V GMMY IP, SPLTY

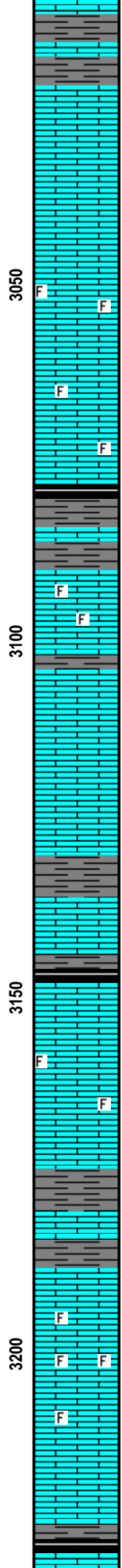
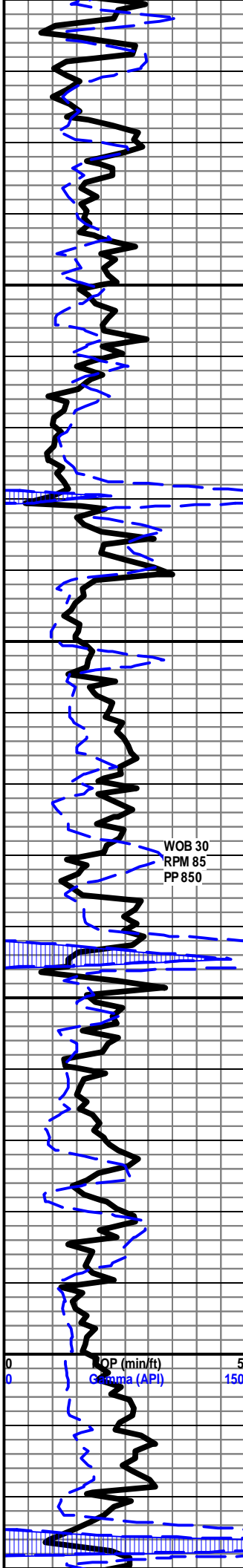
LS- CRM TO LT TN, HD DNS TO BRIT IP, V/FN-XLN MTRX, S-CHLKY W/ ABDT WHT SFT CHLK THRU, TR PYR IP, V DUL YEL FLO IP, NO VIS POR, NO VIS SHOW

SH- GY TO LT GRN, FRM BLKY TO SFT

TOPEKA 2997'-1017'

LS- CRM TO LT TN, HD DNS TO BRIT IP, FN-XLN TO SLI TR RE-XLN MTRX, SLI SUCRO IP, S-CHLKY IP, IMB FOSS FRAGS IP. V DUL YEL FLO IN 70%. NO FLO IN 30%. NO





VIS POR, NO VIS SHOW

SH- LT GY TO GY, FRM TO SFT IP, BLCKY SMTH TXT

LS- LT TN TO LT GY, HD DNS TR BRTT IP, V/FN-XLN TO SLI TR RE-XLN MTRX, S-CHLKY IP, DUL YEL FLO IP, NO VIS POR, NO VIS SHOW

LS- LT TN TO TN, HD DNS TO BRTT IP, MD-XLN, RE-XLN MTRX, SLI SUCRO IP, S-CHLKY IP, TR IMB FOSS FRAGS IP, DUL YEL FLO IN 30%, NO FLO IN 70%, NO VIS POR, NO VIS SHOW

LS- LT TN TO TN, HD DNS TO BRTT IP, MD-XLN, SLI RE-XLN MTRX, SLI CHLK IP, TR IMB FOSS IP, TR IMB SH IP, DUL YEL FLO IP, NO VIS POR, NO VIS SHOW

SH- BLK SFT CARB

LS- LT TN LT GY- MOTT, HD DNS TO BRITT, MD-F-XLN, SLI TR IMBD FOSS IP, SLI TR CHLK IP, DUL YEL MIN FLO IN 80%, BRIT YEL FLO IN 20%, NO VIS POR, NO VIS CUT OR SHOW

LE COMPTON 3105'-1125'

LS- OFF WHT TO CRM, V-HD DNS, V/FN-XLN MTRX, S-CHLKY IP, V DUL YEL FLO IP, NO VIS POR, NO VIS SHOW

SH- LT GRN TO GRN, FRM BLKY TO V SFT IP, SMTH TXT

SH- BLCK SFT CARB

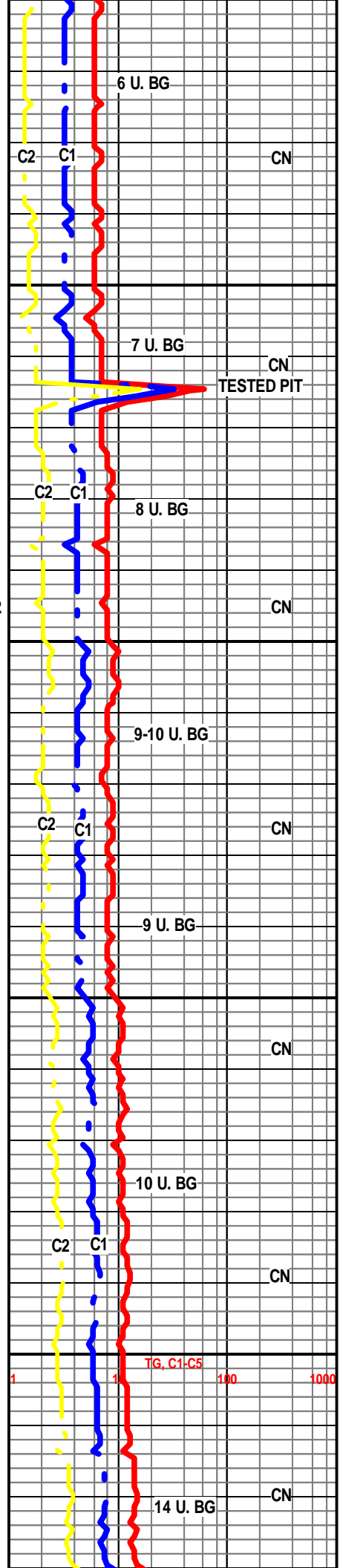
LS- CRM TO LT TN, HD DNS TO V BRTT IP, MD-XLN TO RE-XLN MTRX, SLI SUCRO IP, IMB SFT WHT CHLK IP, TR IMB FOSS IP, SLI TR CALC-XLS IP, DUL YEL FLO IP, TR PR FRAC POR IP, NO CUT OR SHOW

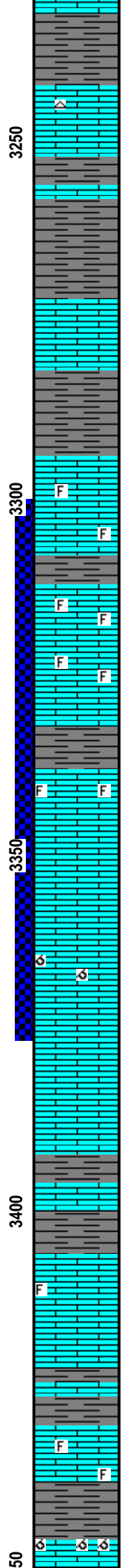
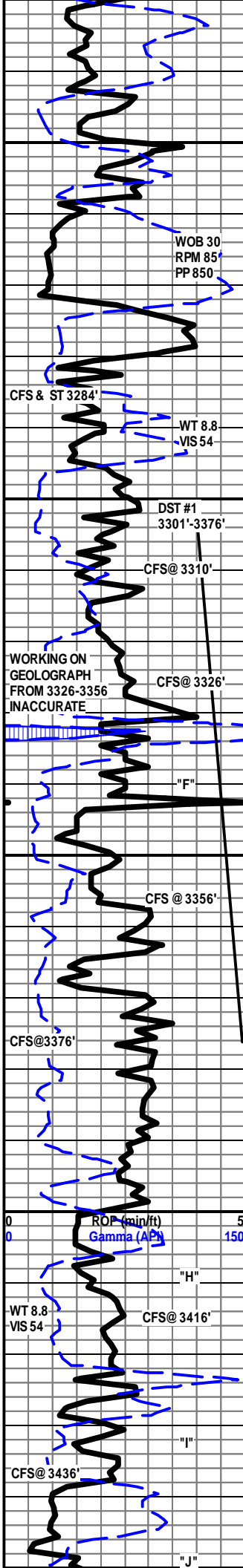
SH- LT GRN TO LT GY, FRM TO SFT IP, SLI SLTY IP

LS- CRM TO LT TN, HD DNS TO BRTT IP, MD/FN-XLN, SLI SUCRO IP, S-CHLKY IP, SCATT FREE FOSS IP, IMB FOSS FRAGS IP, V DUL YEL FLO IP, NO VIS POR, NO VIS SHOW

HEEBNER 3227'-1247'

SH- BLK SFT CARB





LS- OFF WHT TO WHT , V/ HD DNS , V/F-XLN, SLI TR CHLK IP, WHT LT TN CHRT IP, BRIT YEL MIN FLO, NO VIS POR, NO VIS SHOW

DOUGLAS 3258' - 1278'

SH- RED MAROON, V/ FRM IP TO V/ SFT GMMY TXT

LANSING 3272' - 1292'

3272'-3273' LS- CRM LT TN TO TN (LT TN OIL STN IN 40%), V-HD DNS TO BRTT, F-XLN TO SUCRO MTRX IP, BRT YEL GLD FLO IN 40%, NO VIS POR, LT FLSH CUT TO FR SLW STRM CUT IN 40%, LT OIL ODOR, NO LCH ON DSH

LANSING "C" 3295'-1315'

LS- OFF WHT CRM BUFF, HD DNS TO BRTT IP, MD-XLN TO SUCRO S-CHLKY, W/ IMB FOSS FRGS SCAT, NO FLO IN 85%, TR LT YEL MIN FLO, NO VIS POR, NO VIS SHOW

3315'-3316' LS- OFF WHT TO CRM, TR LT OIL STN IN 5%. HD DNS TO BRTT, MD-FN-XLN, S-CHLKY SCAT THRU, ABDT IMB FOSS FRGS THRU, ABDT IMB SFT WHT CHLK THRU, BRT YEL FLO IN 10%, V DUL YEL FLO IN 30%, NO FLSH CUT, V PR SLOW STRM CUT IN 5%, NO VIS POR, NO LCH ON DSH

LANSING "F" 3337' - 1357'

3338'-3342' LS- OFF WHT TO CRM, DK TN TO BRWN DUE TO OIL STN SCAT IN 80%, HD DNS IP TO V-BRTT, MD-XLN RE-XLN MTRX, V FOSS, SLI S-CHLKY THRU, BRT YEL GLD IN 80%, DUL YEL GLD FLO IN 20%, PR TO FR VIS SCAT INTER-FOSS POR IN 50%, TR GD VIS INTER-FOSS POR IN 10%, GD INST FLSH CUT, GD SLOW STRM CUT IN 80%, GD OIL ODOR, BRWN LCH ON DSH

3344'-3348' LS- OFF WHT CRM - MD HD TO SFT, V/ SUCRO S-CHLKY MTRX W/ ABDT SFT WHT CHLK THRU, NO FLO NO VIS POR, NO VIS SHOW

LS- OFF WHT CRM- HD DNS TO BRITT, MD-XLN RE-XLN MTRX, ABDT SFT WHT CHLK THRU, V DUL YEL FLO IN 10%, PR TO FR VIS OOLMLD POR IN 20%, NO VIS SHOW OR CUT

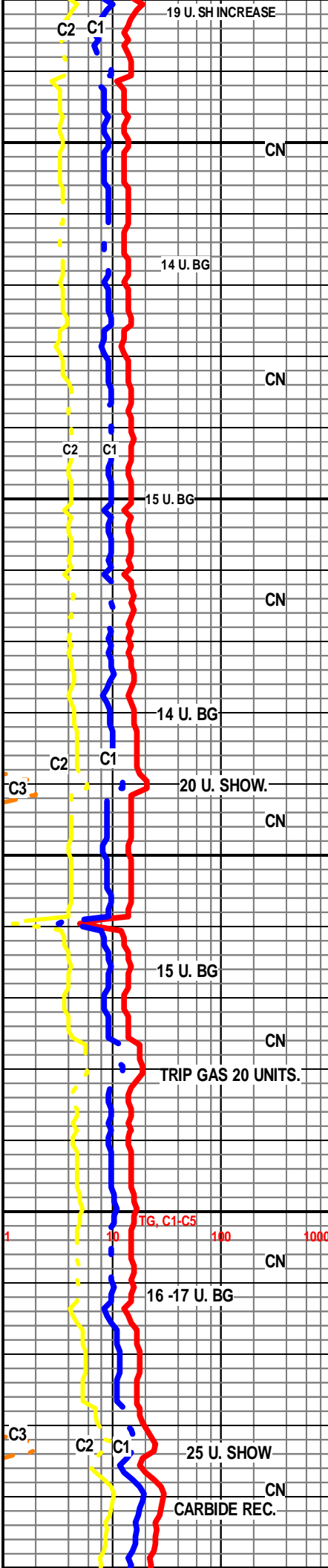
LS-CRM LT TN- HD DNS TR BRITT, MD-F-XLN CRYPTO-XLN IP, DUL YEL FLO IP, NO VIS POR, NO VIS SHOW

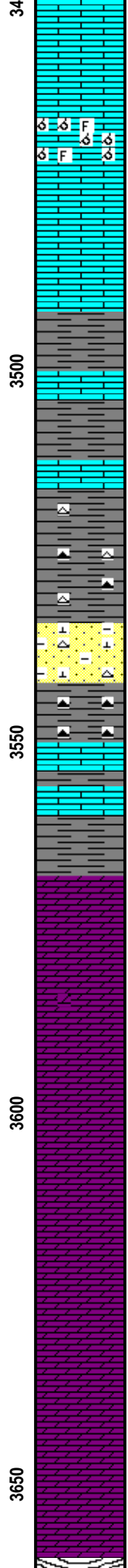
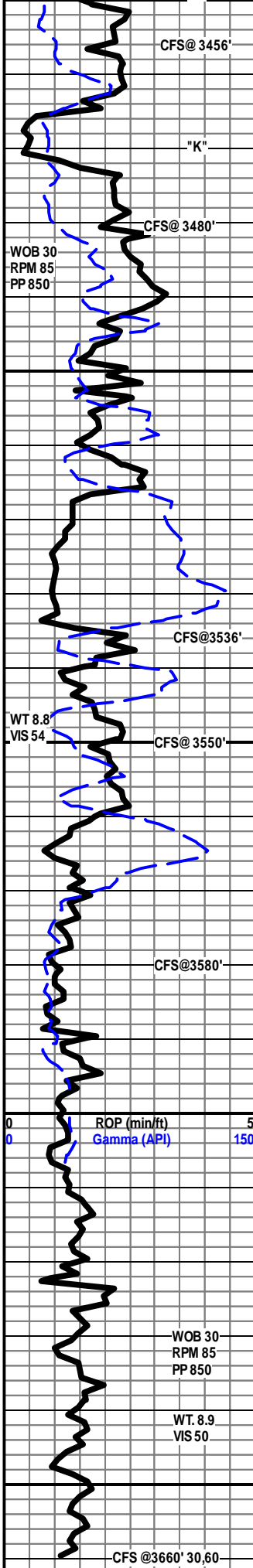
LANSING "H" 3405' - 1425'

LS- OFF WHT TO CRM, MD HD TO SFT , V/ SUCRO S-CHLKY TO FRM CHKY MTRX, TR CHLKY FOSS FRGS IP, NO FLO, NO VIS POR, NO VIS SHOW

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

3431'-3434' LS-CRM LT TN DK TN TO BRN OIL STN IN 40%, LIVE OIL IN DISH , HD DNS TO V/ BRITT, MD-XLN RE-XLN MTRX, SLI SUCRO IP, IMBD FOSS FRGS IP, BRIT YEL GLD FLO IN 70%, DLL YEL GLD IN 20%, FR VIS SCAT MICRO VUG TO FR VUG POR THRU, PR VIS INTERFOSS POR IN 10%, V/GD FLSH CUT IN 80%, GD SLO STRM CUT IN 60%, LT TN STN ON DISH, GD OIL ODOR





3446'-3448' LS- CRM TO LT TN, HD DNS TO V-BRTT THRU, MD-XLN RE-XLN MTRX, S-CHLKY THRU, BRT YEL FLO IN 5%, DUL YEL FLO IN 20%, NO FLO IN 75%, PR TO FR VIS OOLMLD POR IN SCAT THRU, NO CUT OR SHOW

3465'-3471' LS- CRM TO LT TN, HD DNS TO V-BRTT, MD-XLN RE-XLN MTRX, SLI SUCRO MTRX IP, S-CHLKY IP, SCAT IMB FOSS FRAGS IP, DUL YEL FLO IN 20%, NO FLO IN 80%, SCAT FR TO GD VIS OOLMLD POR IN 60%, NO CUT OR SHOW

BKC 3504'-1524'

SH- LT GRN TO GRN, GY MOTT, FRM TO V-SFT, SPLNTY SMTH TXT

SH- RED , V/ SFT GMMY TXT W/ IMBD WHT TN CHRT

3538'-3542' SS- FRSTY LT TN TN DUE TO OIL STN THRU, FRSTY QURTZ GRNS, HD TT TO FRI IP, FN TO MD QURTZ GRNS, ANG GRNS, WLL SRTED, V / SIL TO SLI CALC CMNT, IMBD SH IP, TR IMB WHT TN CHRT IP, DOS IP, BRIT YEL GLD FLO IN 10%, DUL YEL GLD FLO IN 20%, TR PR VIS INTER-GRN POR IN 30%, GD INST FLSH CUT IN 80%, GD SLO STM CUT IN 80%, LT TN LCH ON DISH , NO OIL ODOR

SH- RD TO DK RD, TR PINK SFT V/GMMY

ARBUCKLE 3567' - 1587'

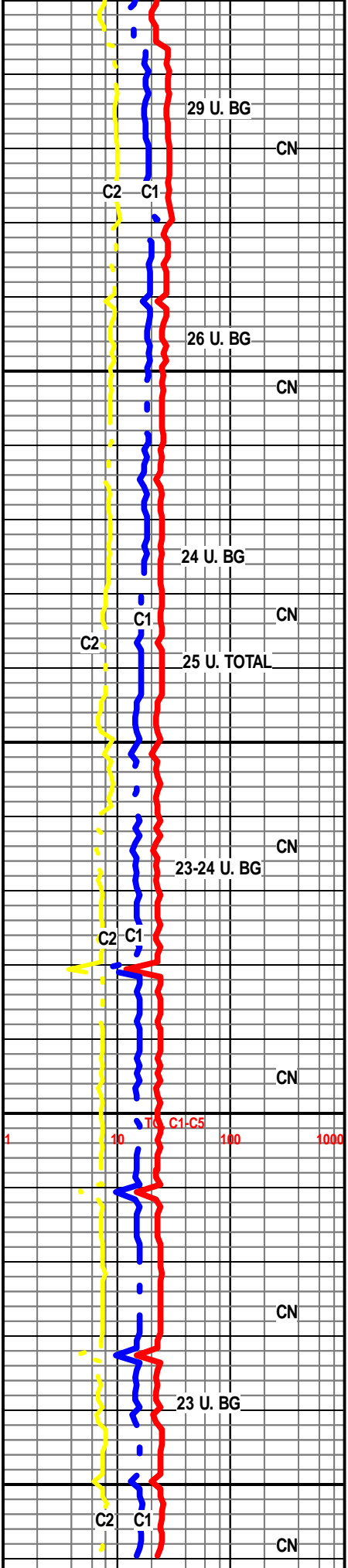
DOLO- WHT TO OFF WHT, HD DNS TO BRIT IP, FN-XLN, CRS SUCRO MTRX, ABDT SM TO MD ANG DOLO GRNS THRU, V DUL YEL MIN FLO THRU, TR V PR MICRO-VUG POR, NO VIS CUT OR SHOW

DOLO- WHT TO OFF WHT, HD DNS TO BRIT IP, FNVFN-XLN, CRS SUCRO MTRX, SLI TR CHLK IP, ABDT SM ANG DOLO GRN THRU, V DUL YEL MIN FLO THRU, NO VIS POR, NO VIS SHOW

DOLO- WHT TO OFF WHT, HD DNS TO TR BRIT, FVFN-XLN MTRX, SLI CRS SUCRO IP, S-CHLKY IP, ABDT V SM DOLO ANG GRNS THRU, BRT YEL MIN FLO IN 10%, DUL YEL MIN FLO IN 80%, NO VIS POR, NO VIS SHOW

DOLO- WHT TO OFF WHT- HD DNS TO TR BRIT, V/F-XLN, SLI SUCRO IP, SMLL ANG DOLO GRNS THRU, SLI TR CHLK IP, DLL YEL MIN FLO THRU, NO VIS POR, NO VIS SHOW

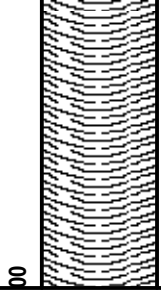
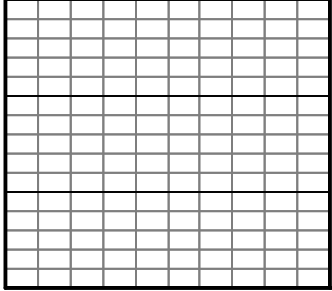
DOLO- WHT TO OFF WHT- HD DNS TO BRIT IP, V/F-XLN, SLI SUCRO IP SCAT SMLL DOLO GRNS IP, V/ DLL YEL MIN FLO THRU, NO VIS POR, NO VIS SHOW



R.T.D. @ 3660'

R.T.D. @ 2:02 AM FEB. 16, 2012

R.T.D. @ 3660'

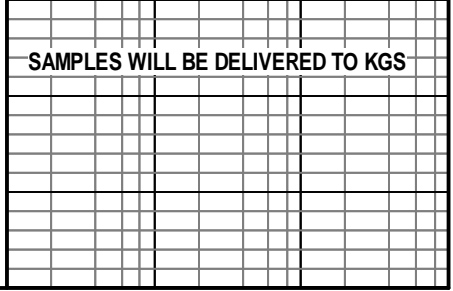


00

CTCH 1.5 HRS

TOFL

WEATHERFORD/LIBERAL



SAMPLES WILL BE DELIVERED TO KGS