



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1092427
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: _____

1092427

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	GLASSMAN 1-16
Doc ID	1092427

All Electric Logs Run

DIL
POR
MICRO
SONIC
SPECTRAL

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	GLASSMAN 1-16
Doc ID	1092427

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	3154-3156	500 GAL 28% MCA W/ 3% MAS	3154-3156
4	3182-3186		3182-3186
4	3198-3200	500 GAL 28% MCA W/ 3% MAS	3198-3200
4	3244-3251		3244-3251
4	3288-3292	500 GAL 28% MCA W/ 3% MAS	3288-3292
4	3294-3298	500 GAL 28% MCA W/ 3% MAS	3294-3298
4	3431-3434		3431-3434

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

Sam Brownback, Governor

August 31, 2012

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

Re: ACO1
API 15-051-26302-00-00
GLASSMAN 1-16
SW/4 Sec.16-12S-16W
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.

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: 5/15/2012
 Invoice # 415

P.O.#:
 Due Date: 6/14/2012
 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:
 GLASSMAN 1-16

Description of Work:
 LONG SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 963.85	No				
Common-Class A	370	\$ 4,764.78	Yes	Baffle Plate Aluminum, 8 5/8"	1	\$95.00	Yes
8 5/8" Basket	3	\$ 1,000.67	Yes				
Bulk Truck Matl-Material Service Charge	370	\$ 781.11	No				
Calcium Chloride	13	\$ 516.78	Yes				
Pump Truck Mileage-Job to Nearest Camp	24	\$ 252.83	No				
8 5/8" Centralizer	3	\$ 202.67	Yes				
Flo Seal	87	\$ 183.67	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	24	\$ 147.95	No				
Premium Gel (Bentonite)	7	\$ 120.29	Yes				
8 5/8" Top Rubber Plug	1	\$ 111.89	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 9,141.47

Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,371.22)

SubTotal for Taxable Items: \$ 5,946.38

SubTotal for Non-Taxable Items: \$ 1,823.87

Total: \$ 7,770.25

Tax: \$ 374.62

6.30% Ellis County Sales Tax

Amount Due: \$ 8,144.87

Applied Payments:

Balance Due: \$ 8,144.87

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. DRLG COMP W/O LOE GG

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RECEIVED

MAY 21 2012

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

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

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. 415

Date	5-12-12	Sec.	16	Twp.	12	Range	16	County	Ellis	State	KS	On Location		Finish	11:45 AM
------	---------	------	----	------	----	-------	----	--------	-------	-------	----	-------------	--	--------	----------

Lease	Glassman	Well No.	1-16	Location	Walker, KS - N to Blue hill School
-------	----------	----------	------	----------	------------------------------------

Contractor	Discovery #3	Owner	3/4 W, S/Into
------------	--------------	-------	---------------

Type Job	Surface	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	12 1/4"	T.D.	861'	Charge To	Sam Gary Jr + Associates
-----------	---------	------	------	-----------	--------------------------

Csg.	8 5/8"	Depth	861'	Street	
------	--------	-------	------	--------	--

Tbg. Size		Depth		City	State
-----------	--	-------	--	------	-------

Tool		Depth			
------	--	-------	--	--	--

Cement Left in Csg.	42'	Shoe Joint	42'	The above was done to satisfaction and supervision of owner agent or contractor.	
---------------------	-----	------------	-----	--	--

Meas Line		Displace	52 BLS	Cement Amount Ordered	350 sy Common 3% CC 2% Gel
-----------	--	----------	--------	-----------------------	----------------------------

EQUIPMENT			1/4 # Flo-seal
-----------	--	--	----------------

Pumptrk	9	No.	Cementer	Matt	Common	350
---------	---	-----	----------	------	--------	-----

Bulktrk	13	No.	Driver	Brian	Poz. Mix	
---------	----	-----	--------	-------	----------	--

Bulktrk	g.u.	No.	Driver	Rick	Gel.	7
---------	------	-----	--------	------	------	---

JOB SERVICES & REMARKS			Calcium	13
------------------------	--	--	---------	----

Remarks:	Cement did Circulate	Hulls	
----------	----------------------	-------	--

Rat Hole		Salt	
----------	--	------	--

Mouse Hole		Flowseal	87#
------------	--	----------	-----

Centralizers	1, 7, 16	Kol-Seal	
--------------	----------	----------	--

Baskets	2, 8, 17	Mud CLR 48	
---------	----------	------------	--

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

		Sand	
--	--	------	--

		Handling	370
--	--	----------	-----

		Mileage	
--	--	---------	--

FLOAT EQUIPMENT		
-----------------	--	--

		Guide Shoe	
--	--	------------	--

		Centralizer	3
--	--	-------------	---

		Baskets	3
--	--	---------	---

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

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

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

		1- Baffle plate	
--	--	-----------------	--

		1- Rubber plug	
--	--	----------------	--

		Pumptrk Charge	Long Surface
--	--	----------------	--------------

		Mileage	24
--	--	---------	----

		Tax	
--	--	-----	--

		Discount	
--	--	----------	--

		Total Charge	
--	--	--------------	--

X Signature *James P. ...*



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: 5/21/2012
 Invoice # 423

P.O.#:
 Due Date: 6/20/2012
 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:
 GLASSMAN 1-16

Description of Work:
 PROD LONG STRING

Services / Items Included:

	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 963.85	No				
Common-Class A	225	\$ 2,897.50	Yes	Pump Truck Mileage-Job to Nearest Camp	24	\$252.83	No
Gilsonite	1057	\$ 1,673.58	Yes	Latch Down Plug & Baffle, 5 1/2"	1	\$236.44	Yes
CFL 117	176	\$ 1,144.39	Yes	Bulk Truck Mileage-Job to Nearest Bulk Plant	24	\$147.95	No
5 1/2" Basket	3	\$ 728.33	Yes	Flo Seal	56	\$118.22	Yes
Bulk Truck Matl-Material Service Charge	254	\$ 536.22	No	KCL	2	\$63.04	Yes
CD-110	117	\$ 494.00	Yes				
5 1/2" Turbolizer	8	\$ 489.78	Yes				
Mud Clear	500	\$ 390.56	Yes				
Defoamer A or CAF-38	50	\$ 369.44	Yes				
Auto Fill Float Shoe, 5 1/2"	1	\$ 323.00	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 11,109.11

Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,666.37)

SubTotal for Taxable Items: \$ 7,827.03

SubTotal for Non-Taxable Items: \$ 1,615.72

Total: \$ 9,442.74

Tax: \$ 493.10

6.30% Ellis County Sales Tax

Amount Due: \$ 9,935.85

Applied Payments:

Balance Due: \$ 9,935.85

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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DRLG COMP W/O LOE GG

Account	8300-238
Well/Prospect	
Deck	
AFE	
Approval	<i>[Signature]</i>
Description	

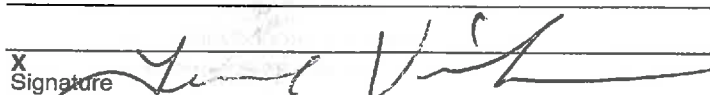
QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 423

Date	5-18-12	Sec.	16	Twp.	12	Range	16	County	Ellis	State	Ks	On Location		Finish	5:15AM
Lease	Glassman			Well No.	1-16			Location	Walker, Ks - N to D.E., 1W, 4N to Blue hill						
Contractor	Discovery #2							Owner	School, 3/4 W, S1 Into						
Type Job	Production							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.	3565'			Charge To	Sam Gary Jr & Associates						
Csg.	5 1/2" 15.50# New			Depth	3563 3/8'			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.	42.53'			Shoe Joint	42.53'			225# of Pro-C 10% Sulf 5% Gilsontite 1/4# Flowseal Cement Amount Ordered: 3% CD-110, 8% CFL 117, 25% CAF 38							
Meas Line				Displace	83 3/4 BLS			20 BL KCL - 500 gal Mud Clear 48							
EQUIPMENT															
Pumptrk	5	No.		Cementer	Brett			Common	225						
Bulktrk	10	No.		Driver	Levy			Poz-Mix	CD-110 117A						
Bulktrk	p.u.	No.		Driver	Rick			Get.	KCL 20 BBL						
JOB SERVICES & REMARKS															
Remarks:								Calcium							
Rat Hole	30sx							Hulls							
Mouse Hole	15sx							Salt	19						
Centralizers	1-15 every other one							Flowseal	56#						
Baskets	39, 15							Kol-Seal	1057#						
D/V or Port Collar	Pipe on bottom, break Circulator							Mud CLR 48	500 gal						
	pump 500 gal mud clear 48, Plug Rat							CD-117 or CD110 CAF 38	- 50#						
	hook w/30sx, Plug mousehole w/15sx							Sand	176#						
	Hook to 5 1/2" Casing & mix 180sx Cement							Handling	254						
	shut down, wash pump & lines. Released							Mileage							
	plug & displaced with 83 3/4 BLS of							FLOAT EQUIPMENT							
	water.							Guide Shoe							
	Lift pressure 800 #							Centralizer	8 turbo's						
	Land plug to 1400 #							Baskets	3						
	Mixed with City water							AFU Inserts							
	Plug landed @ 82' BLS							Float Shoe	1						
								Latch Down	1						
								1 - Rotating head Assy							
								Pumptrk Charge	prod long string						
								Mileage	24						
X Signature 												Tax			
												Discount			
												Total Charge			



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr & Assoc Inc

16-12s-16w Ellis

1515 Wynkoop
Ste 700
Denver Co 80202
ATTN: Clayton Camozzi

Glassman #1-16

Job Ticket: 47153 **DST#: 1**

Test Start: 2012.05.15 @ 14:20:55

GENERAL INFORMATION:

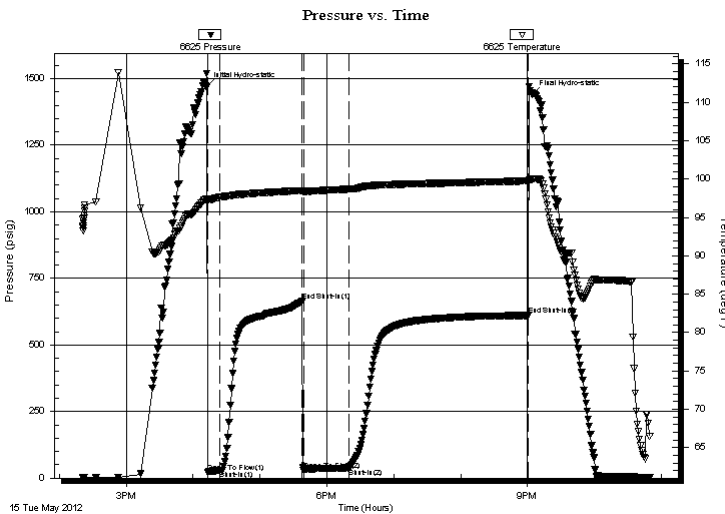
Formation: **LKC A-C**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:13:20
 Time Test Ended: 22:49:19
 Interval: **3137.00 ft (KB) To 3195.00 ft (KB) (TVD)**
 Total Depth: 3195.00 ft (KB) (TVD)
 Hole Diameter: 7.85 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ray Schwager
 Unit No: 42
 Reference Elevations: 1945.00 ft (KB)
 1937.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6625 Inside

Press @ Run Depth: 38.57 psig @ 3139.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.05.15 End Date: 2012.05.15 Last Calib.: 2012.05.15
 Start Time: 14:20:55 End Time: 22:49:19 Time On Btm: 2012.05.15 @ 16:11:50
 Time Off Btm: 2012.05.15 @ 21:04:19

TEST COMMENT: 10-IFP-surface to 1/8"bl
 75-ISIP-no bl
 40-FFP-w k bl 1"to 2 1/4"bl
 160-FSIP-no bl

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1467.94	97.37	Initial Hydro-static
2	23.00	97.30	Open To Flow (1)
12	28.81	97.65	Shut-In(1)
86	664.76	98.52	End Shut-In(1)
87	30.00	98.38	Open To Flow (2)
128	38.57	98.70	Shut-In(2)
289	610.64	99.76	End Shut-In(2)
293	1438.94	99.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	80'GIP	0.00
45.00	O&GCM 5%G15%O80%M	0.36

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr & Assoc Inc

16-12s-16w Ellis

1515 Wynkoop
Ste 700
Denver Co 80202
ATTN: Clayton Camozzi

Glassman #1-16

Job Ticket: 47153

DST#: 1

Test Start: 2012.05.15 @ 14:20:55

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

40 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.96 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	80'GIP	0.000
45.00	O&GCM 5%G15%O80%M	0.358

Total Length: 45.00 ft Total Volume: 0.358 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Data: PSI 150# 100ML Gas 500MLOIL 1400MLMud

Serial #: 6625

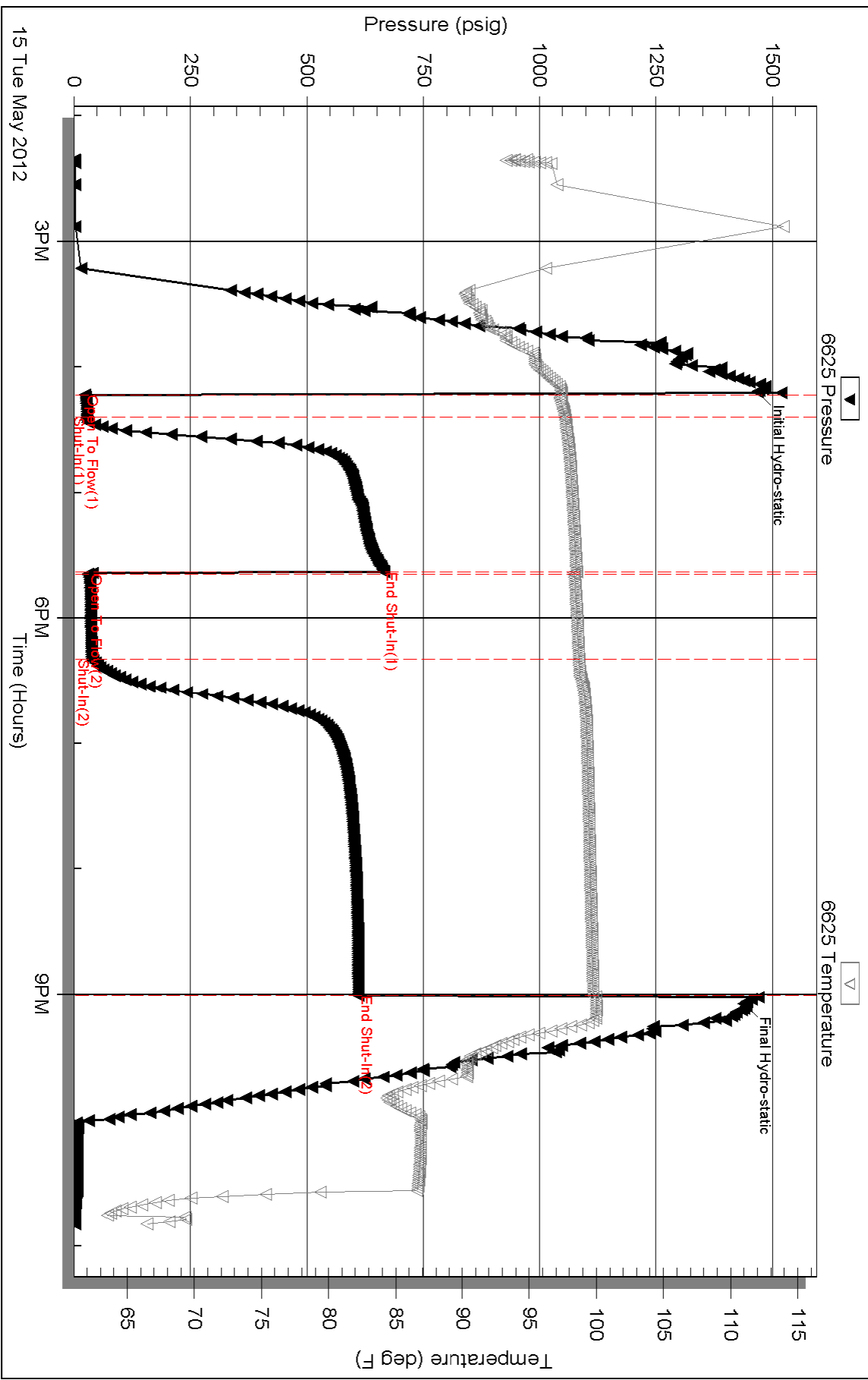
Inside

Samuel Gary Jr & Assoc Inc

Glassman #1-16

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 47153

Printed: 2012.05.16 @ 07:56:09

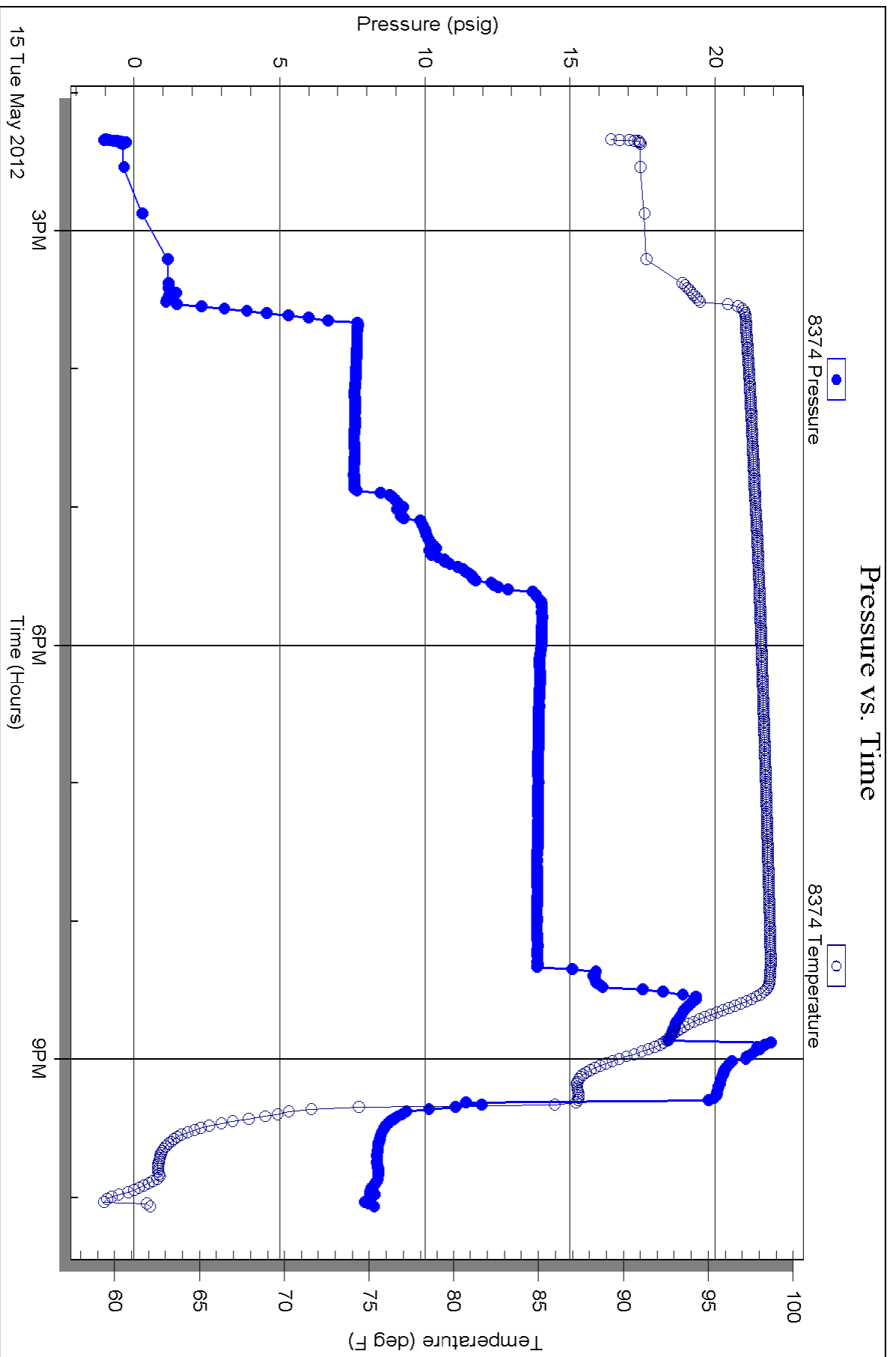
Serial #: 8374

Fluid

Samuel Gary Jr & Assoc Inc

Glassman #1-16

DST Test Number: 1





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr & Assoc Inc

16-12s-16w Ellis

1515 Wynkoop
Ste 700
Denver Co 80202
ATTN: Clayton Camozzi

Glassman #1-16

Job Ticket: 47154 **DST#: 2**

Test Start: 2012.05.16 @ 15:35:33

GENERAL INFORMATION:

Formation: **LKC G-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:26:58

Time Test Ended: 23:22:27

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schwager

Unit No: 42

Interval: 3276.00 ft (KB) To 3350.00 ft (KB) (TVD)

Reference Elevations: 1945.00 ft (KB)

Total Depth: 3350.00 ft (KB) (TVD)

1937.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6625 Inside

Press @ Run Depth: 39.71 psig @ 3283.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.05.16 End Date: 2012.05.16

Last Calib.: 2012.05.16

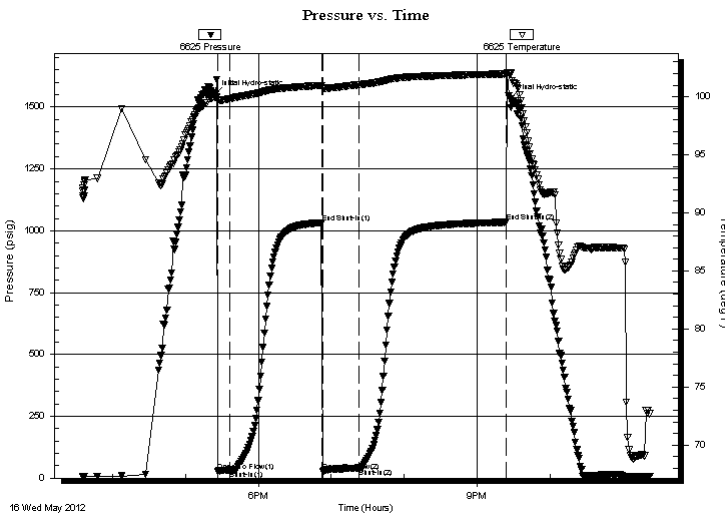
Start Time: 15:35:33 End Time: 23:22:27

Time On Btm: 2012.05.16 @ 17:24:28

Time Off Btm: 2012.05.16 @ 21:27:27

TEST COMMENT: 10-IFP-w k bl 1/8" to 1" bl
75-ISIP-no bl
30-FFP-fr to a strg bl 6" to bottom of bucket
120-FSIP-no bl

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1551.18	99.92	Initial Hydro-static
3	27.05	99.70	Open To Flow (1)
12	33.17	99.83	Shut-In(1)
88	1033.01	100.98	End Shut-In(1)
89	26.14	100.75	Open To Flow (2)
119	39.71	101.04	Shut-In(2)
240	1034.44	101.98	End Shut-In(2)
243	1532.35	102.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	400'GIP	0.00
20.00	CO	0.10
15.00	O&GCM5%G20%O75%M	0.12

* 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 & Assoc Inc

16-12s-16w Ellis

1515 Wynkoop
Ste 700
Denver Co 80202
ATTN: Clayton Camozzi

Glassman #1-16

Job Ticket: 47154

DST#: 2

Test Start: 2012.05.16 @ 15:35:33

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

39 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.95 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	400'GIP	0.000
20.00	CO	0.098
15.00	O&GCM5%G20%O75%M	0.119

Total Length: 35.00 ft Total Volume: 0.217 bbl

Num Fluid Samples: 0

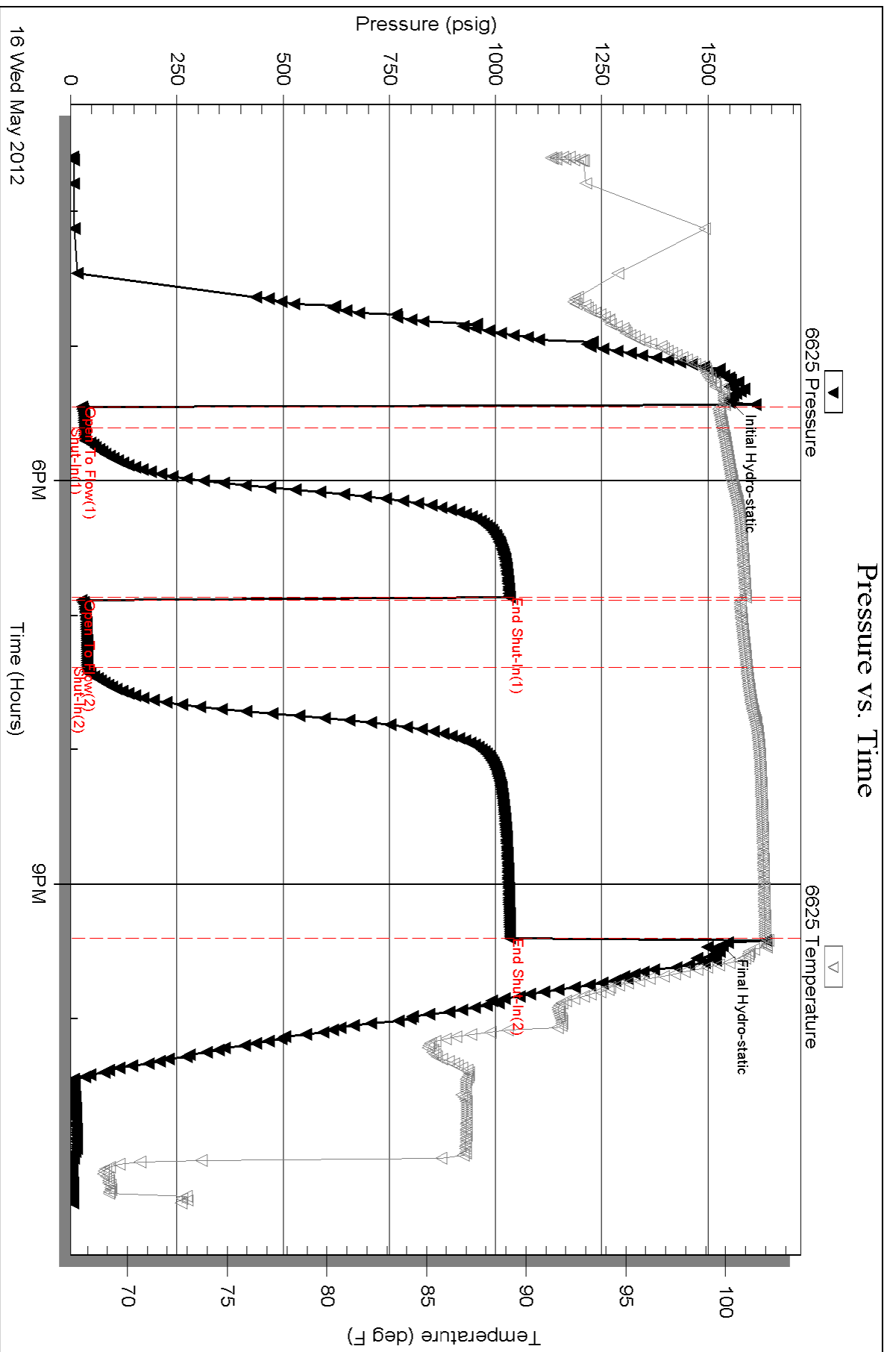
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Data: PSI 275# 1500MLOil 500mlGas



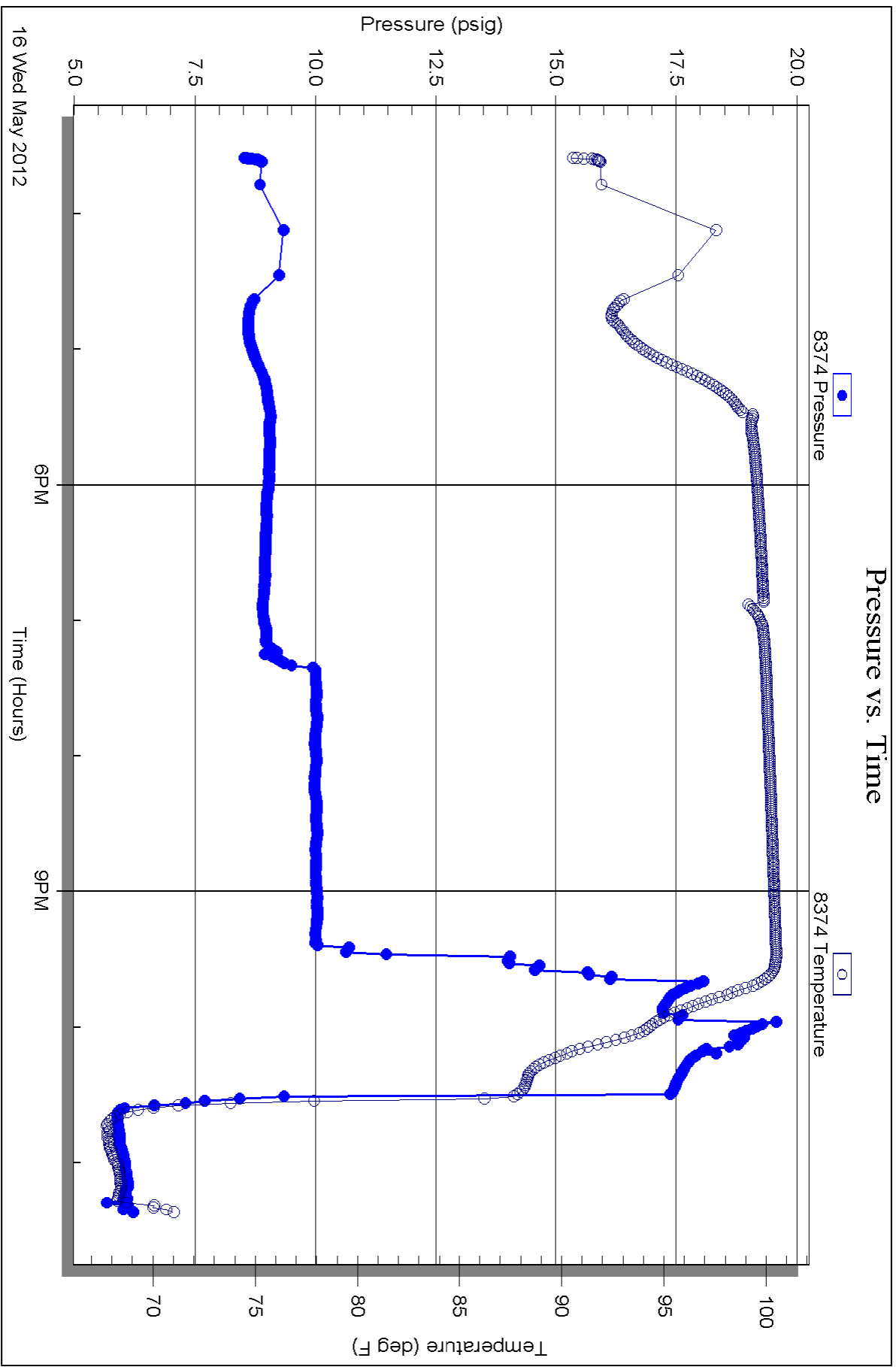
Serial #: 8374

Fluid

Samuel Gary Jr & Assoc Inc

Glassman #1-16

DST Test Number: 2



16 Wed May 2012

6PM

9PM

Time (Hours)



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

Well Name: GLASSMAN 1-6
Location: Sec 16 12s 16w, Ellis County, Kansas
License Number: 15-051-26302-0000
Spud Date: MAY 11, 2012
Surface Coordinates: 2040' FSL & 1350' FWL
Region: Wildcat
Drilling Completed: MAY 17, 2012

Bottom Hole
Coordinates:
Ground Elevation (ft): 1937' K.B. Elevation (ft): 1945'
Logged Interval (ft): 2800' To: 3565' Total Depth (ft): 3565'
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: Clayton Camozzi

GEOLOGIST

Name: Aaron Suelter/ SchuylerHedrick
Company: Earth Tech OGL, Inc.
Address: PO Box 683
Hooker, Okla. 73945
Off. 888-543-8378

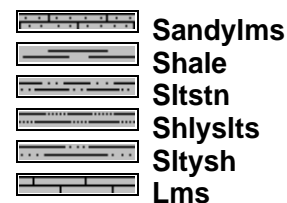
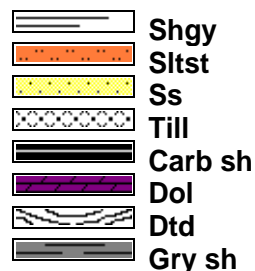
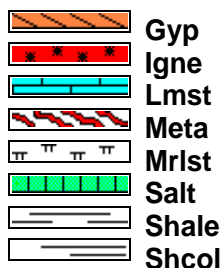
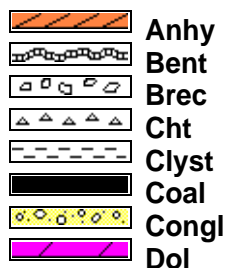
DST's Report

DST#1 3137'-3195' 10 75 40 160
IF- SURFACE TO 1/8" BLO/ ISI - NB/ FF- WK BLO 1"TO21/4" BLO/ FSI- NB
IH-1467, FH-1438/ IF 23 TO 30,FF 28 TO 38/ISI- 664, FSI-610
RECOVERY- 80'GIP/ 45' O+GCM 5%GAS, 15% OIL, 80%MUD/ BHT-99
SAMPLER-100ML GAS, 500ML OIL, 1400ML MUD/ PSI-150/ CHLORIDES-2000

DST's Report

DST#2 3276'-3350' 10 75 30 120
IF- WK BLO 1/8"/ ISI NB/ FF- FR TO STRNG BLO/ FSI NO BLO
IH-1551, FH-1532/ IF-27 TO 26/ FF-33 TO 39/ ISI-1033, FSI- 1034
RECOVERY-400' GIP/ 20' CO/ 15' O+GCM 5%GAS, 20%OIL, 75%MUD/ BHT 102/ GRAVITY 39
SAMPLER- 500ML GAS, 1500ML OIL/ PSI 275

ROCK TYPES

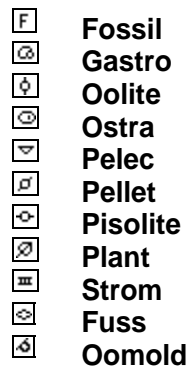
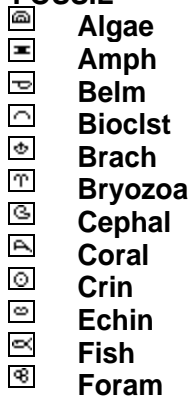


ACCESSORIES

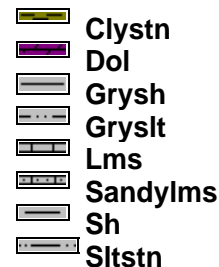
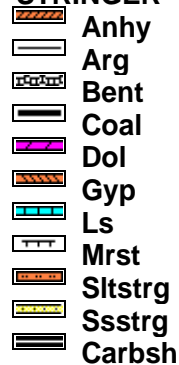
MINERAL



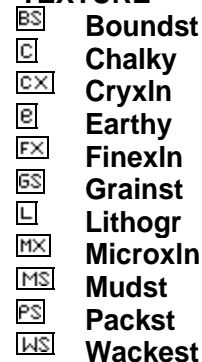
FOSSIL



STRINGER

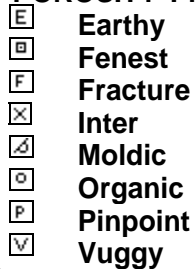


TEXTURE



OTHER SYMBOLS

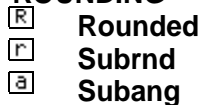
POROSITY TYPE



SORTING



ROUNDING



OIL SHOWS

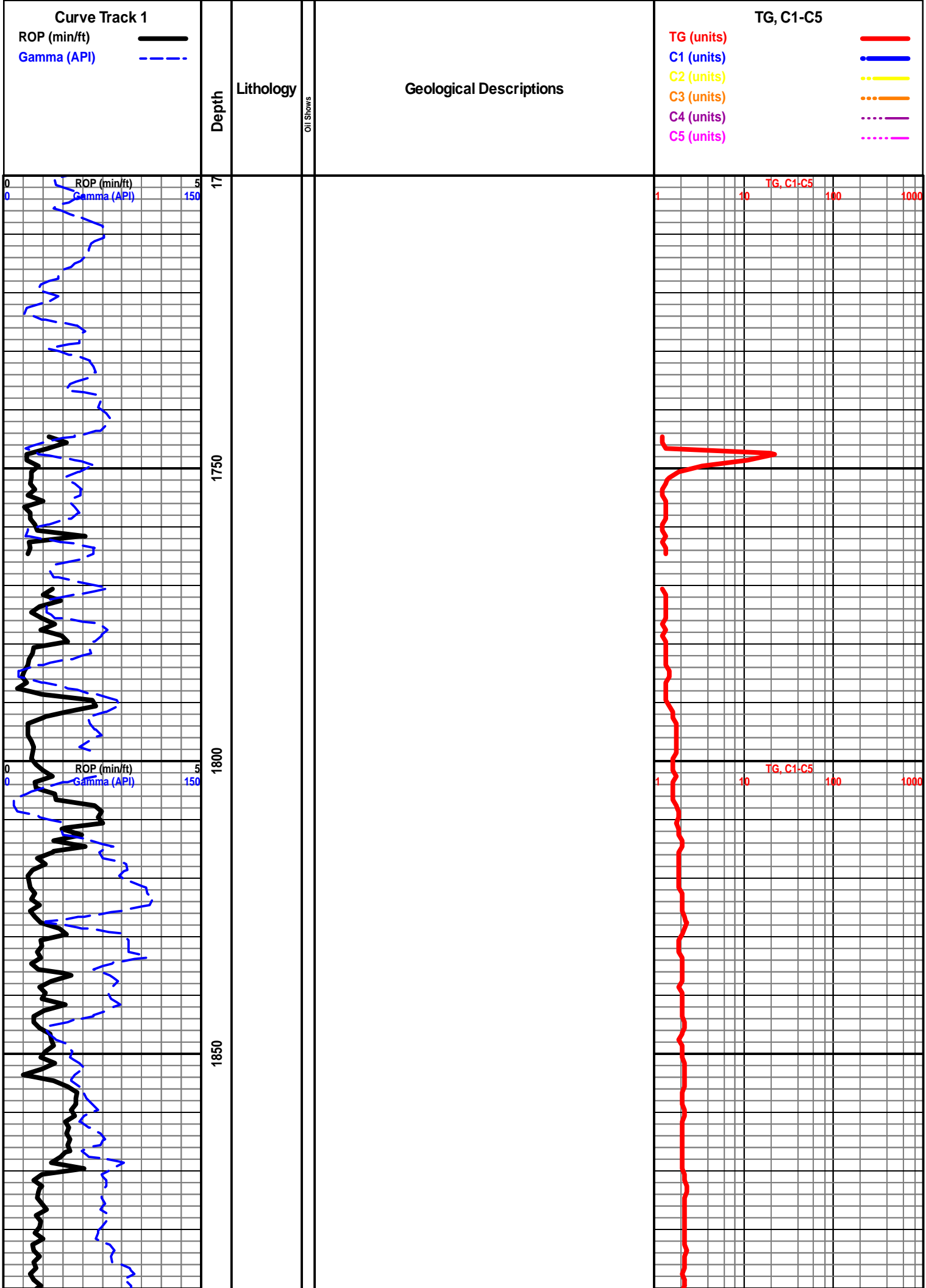


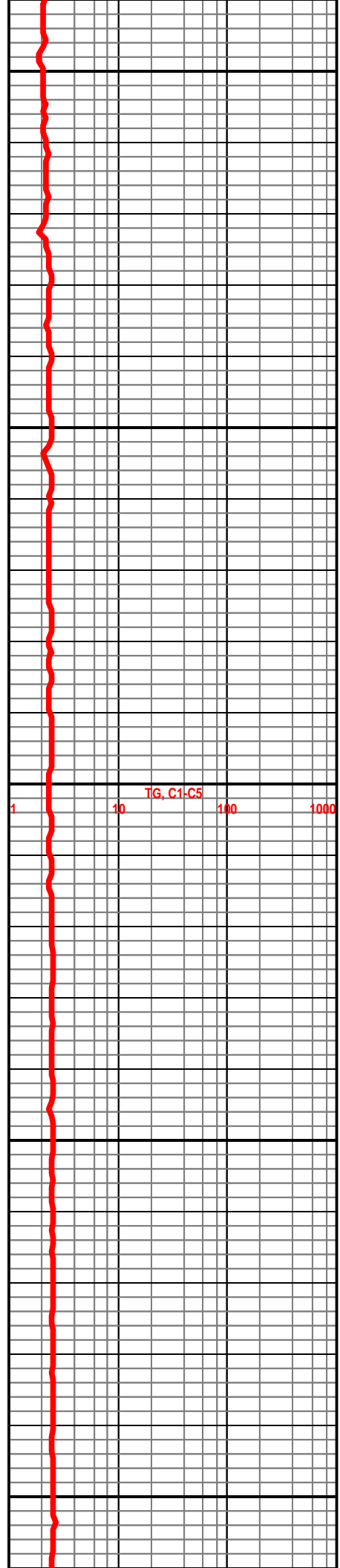
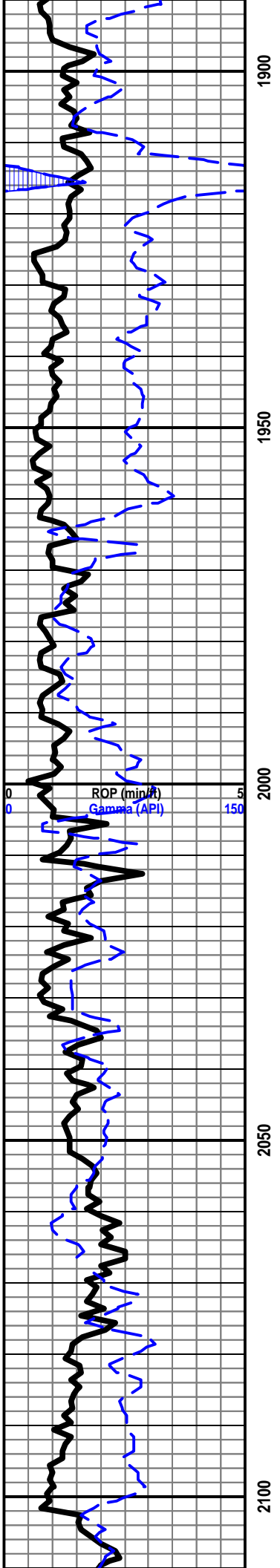
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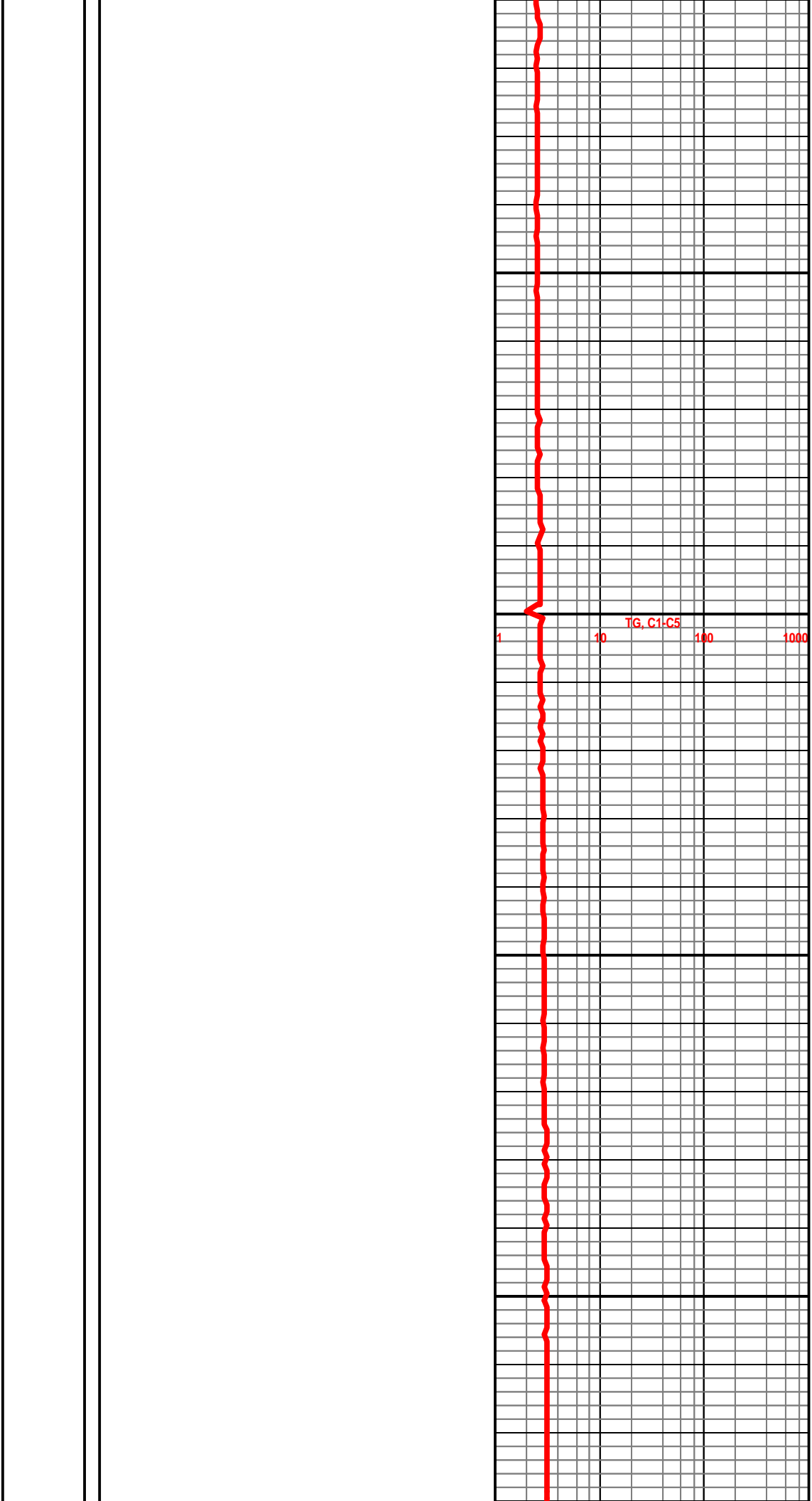
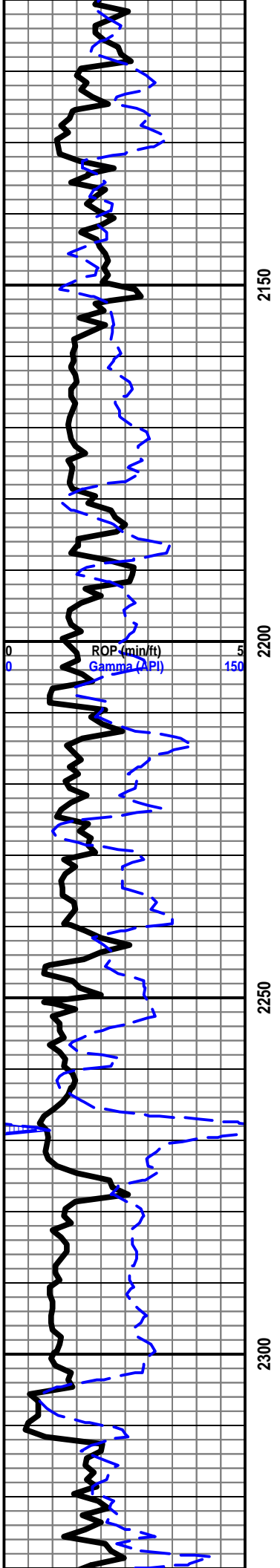


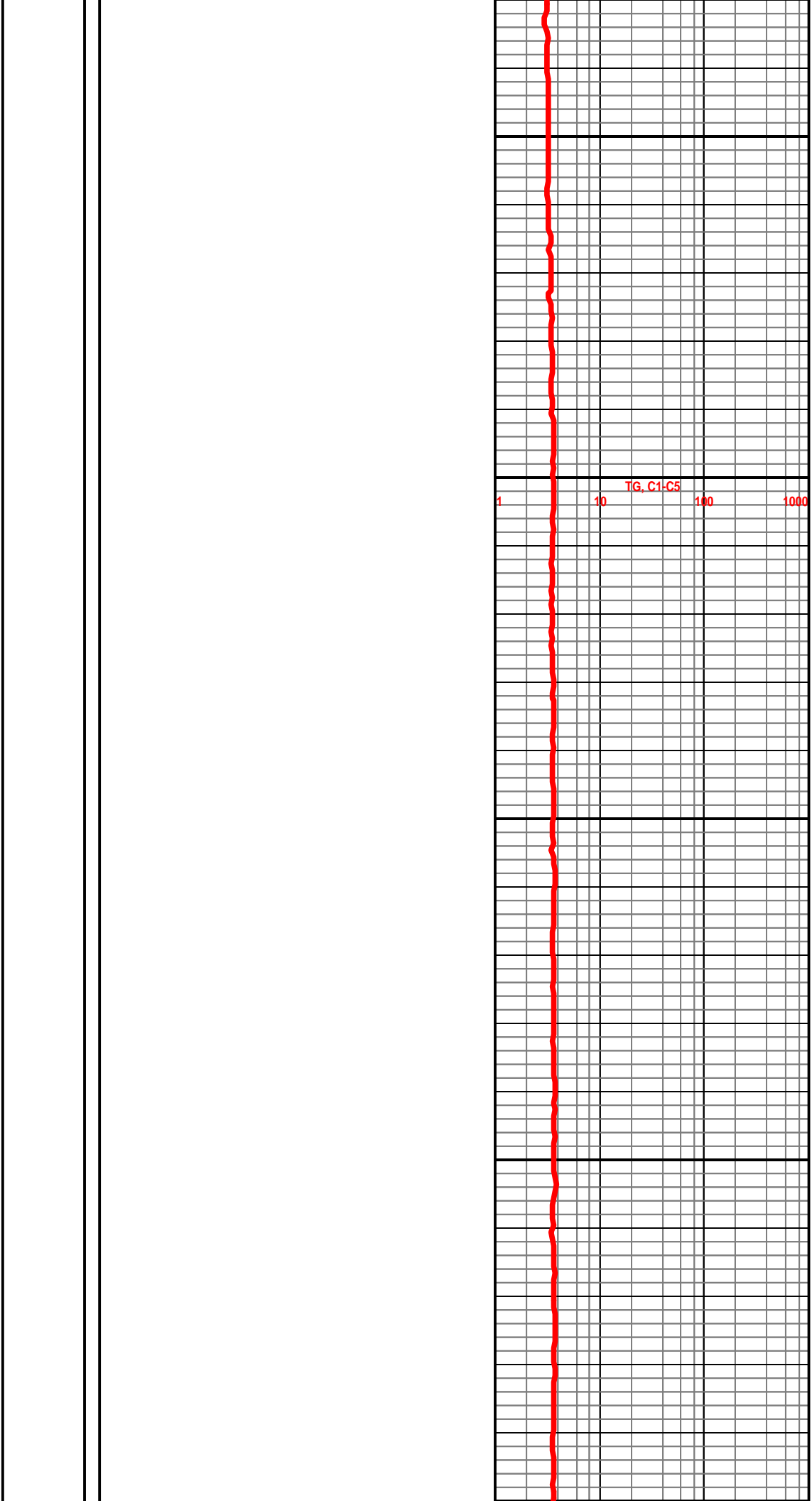
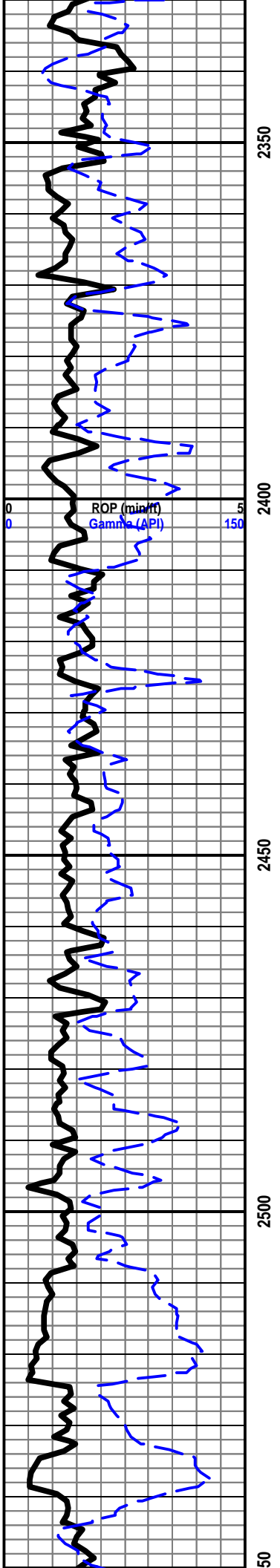
EVENTS

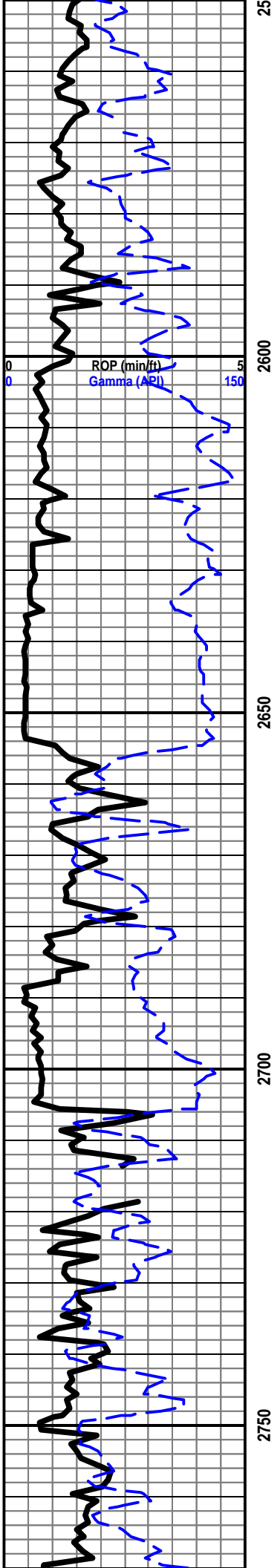




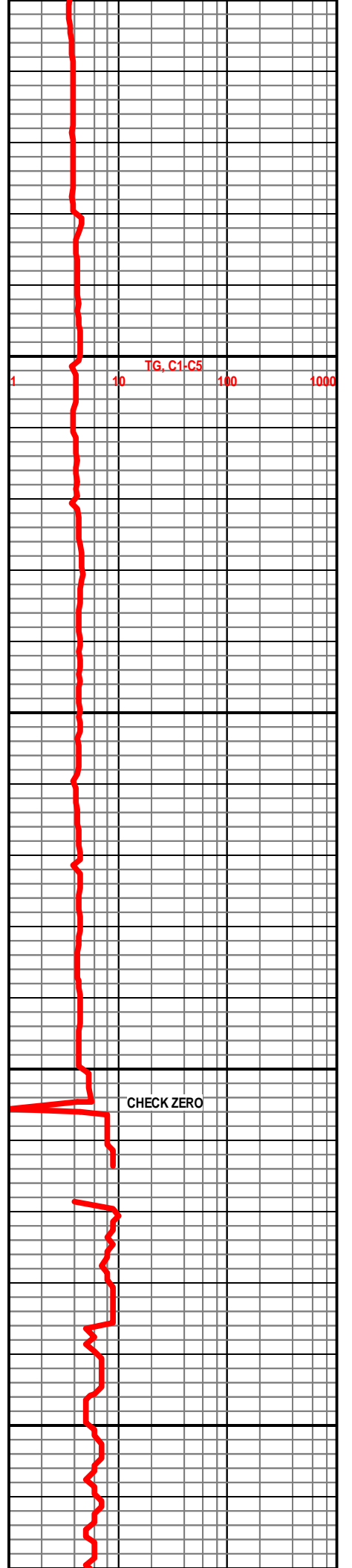


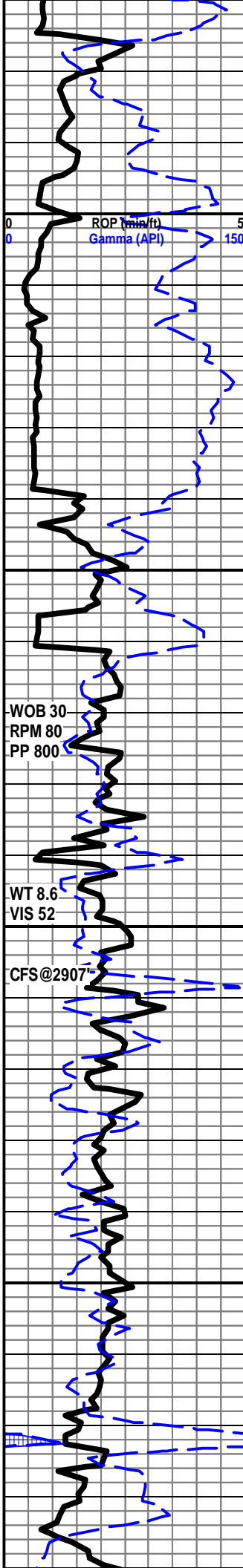






BRS 2654' - 709'





2800
2850
2900
2950

START 24 HOUR MANNED UNIT 5/14/12

SH- GY TO DK GY, V FRM TO SFT IP, BLCK SMTH TXT

SH-LT GY TO GY THRU, FRM TO SFT GMMY IP, SMTH TO SLTY TXT

HOWARD 2847'-902'

LS- TN, V/HD TO TRC DNS, F TO V/F XLN MTRX, S-CHLKY IP, IMBD CALC XLS IP, SL TR FREE CALC XLS IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

TOKPEKA 2862'-917'

LS- LT TN TO GY MOTTLD, HD DNS TO BRIT, MD TO F XLN RE-XLN IP, SUCRO IP, IMBD FOSS FRG, SL TR SCAT PYR IP, V/DUL YEL FLO IP, NO VIS POR, NO VIS CUT OR SHOW

SGA TOPEKA 2892'-947'

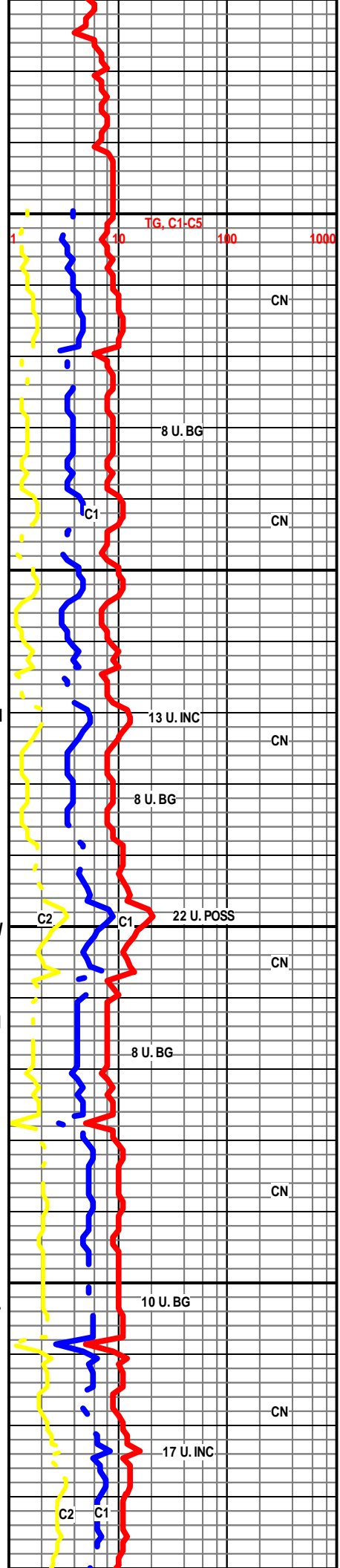
LS- LT TN TN TO GY IP, HD DNS TO BRIT, MD TO F XLN, S-CHLKY IP, SCAT SFT TO GMMY CHLK, FREE FOSS IP, V/DULL YEL FLO IN 20%, NO VIS POR, NO CUT OR SHOW

LS-LT TN TO TN, V/ HD DNS TO TR BRIT IP, F TO V/F XLN MTRX, SUCRO IP, SL TR FREE FOSS IP, DULL YEL FLO IN 40%, NO VIS POR, NO VIS CUT OR SHOW

LS- CRM TO LT TN, HD DNS TO BRIT IP, MD TO F XLN RE-XLN IP, IMBD FOSS FRG, SCAT SFT WHT CHLK IP, V/DULL YEL FLO IN 50%, NO VIS POR, NO VIS CUT OR SHOW

LS- TN, HD DNS TO BRIT IP, MD TO F XLN MTRX, RE-XLN IP, S-SUCRO, IMBD CALC XLS THRU ON ONE FACES, BRT YEL FLO IN 30%, DUL YEL FLO IN 10%, NO VIS POR, NO VIS CUT OR SHOW

LS- LT TN TOTN, HD DNS TO BRIT, MD TO FN XLN, S-SUCRO, SCAT IMBD CALC XLS THRU, SFT WHT CHLK IP, NO VIS FLO, NO VIS POR, NO VIS SHOW



TG, C1-C5

CN

8 U. BG

CN

13 U. INC

CN

8 U. BG

22 U. POSS

CN

8 U. BG

CN

10 U. BG

CN

17 U. INC

C2 C1

LE COMPTON 2995'-1050'

LS- OFF WHT TO CRM BFF, V HD DNS TO TR BRTT IP, VF-XLN MTRX, S-CHLKY IP, SLI TR IMB FOSS FRAGS IP, BRT YEL MIN FLO THRU, NO VIS POR, NO VIS SHOW

LS- CRM TO LT TN, HD DNS TO BRIT, MD TO F XLN RE-XLN IP, S-CHLKY IP, TR FREE FOSS, NO VIS FLO, NO VIS POR, NO VIS SHOW

SH-BLCK, SFT, CARB

3038'-3039' LS- CRM TO LT TN W/ TN OIL STN IN 30%, HD DNS TO BRIT, MD XLN RE-XLN MTRX, S-SUCRO, SCAT FREE FOSS IP, DUL YEL GLD FLO IN 50%, SCAT BRT YEL GLD FLO IN 20%, PR MICRO VUG POR IN 5%, PR FLSH CUT IN 20%, FR TO TR GD SLW STRM CUT IN 40%, V/ LT TN LCH ON DISH, NO OIL ODOR

LS-LT TN TO TN, V HD DNS TO TR BRTT IP, MD/F-XLN MTRX, RE-XLN IP, S-SUCRO IP, IMBD FOSS FRAGS IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

3078'-3080' LS- OFF WHT TO CRM W/ DK TN OIL STN SCAT IN 20%, HD DNS TO V/BRIT, MD XLN RE-XLN MTRX, S-CHLKY IP, ABDT SFT WHT CHLK THRU, V/DUL YEL GLD FLO IN 20%, V/PR MICRO VUG POR IN 5%, PR VUG POR IP, FR FLSH CUT THRU, FR TO GD SLW STRM CUT IN 60%, TN LCH ON DISH, GD OIL ODOR

HEEBNER 3110'-1165'

SH- BLCK, SFT, CARB

SH- LT CRM TO LT GY, FRM TO V/SFT GMMY, SPLNTY SMTH TXT

3144'-3146' LS- CRM TO LT TN DUE TO OIL STN IN 15%, HD DNS TO TR BRIT, MD TO F XLN, S-SUCRO IPS-CHLKY, IMBD CALC XLS IP, TR SFT WHT CHLK IP, BRT YEL GLD FLO IN 40% DUL YEL GLD FLO IN 20%, V/PR MICRO VUG POR IN 5%, TR V/PR INTR XLN POR IP, V/PR FLSH CUT IP, PR TO FR SLW STRM CUT IN 40%, NO LCH ON DISH, SLT OIL ODOR

DOUGLAS 3144'-1199'

SH-GRN TO GY MOTTLD, V/SFT GMMY, BLCKY SMTH TXT

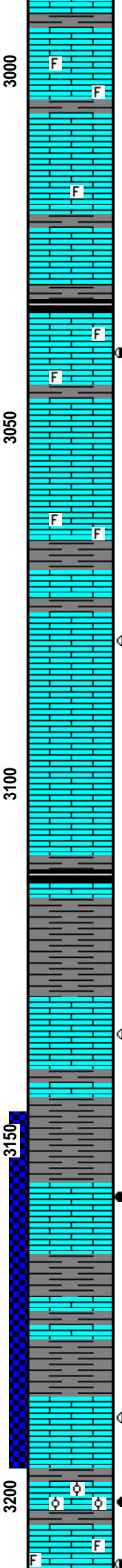
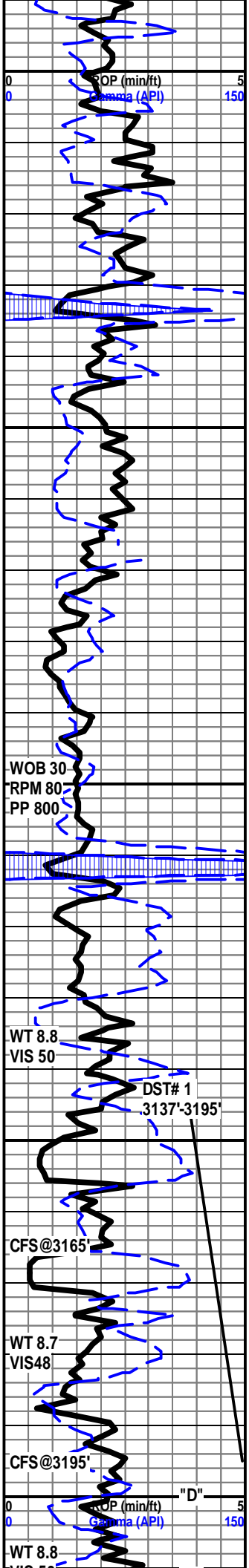
LANSING 3157'-1212'

3157'-3158' LS- TN TO DK TN DUE TO OIL STN IN 90%, HD DNS TO BRIT IPMD XLN RE-XLN SUCRO MTRX, IMBD FOSS FRG THRU, BRT YEL GLD FLO IN 80%, DUL YEL GLD FLO IN 20%, FR MICRO VUG POR IN 10%, TR PR VUG POR IP, GD INSTNT FLSH CUT THRU, GD SLW STRM MLKYBLU CUT IN 70%, TN LCH ON DISH, STRNG OIL ODOR

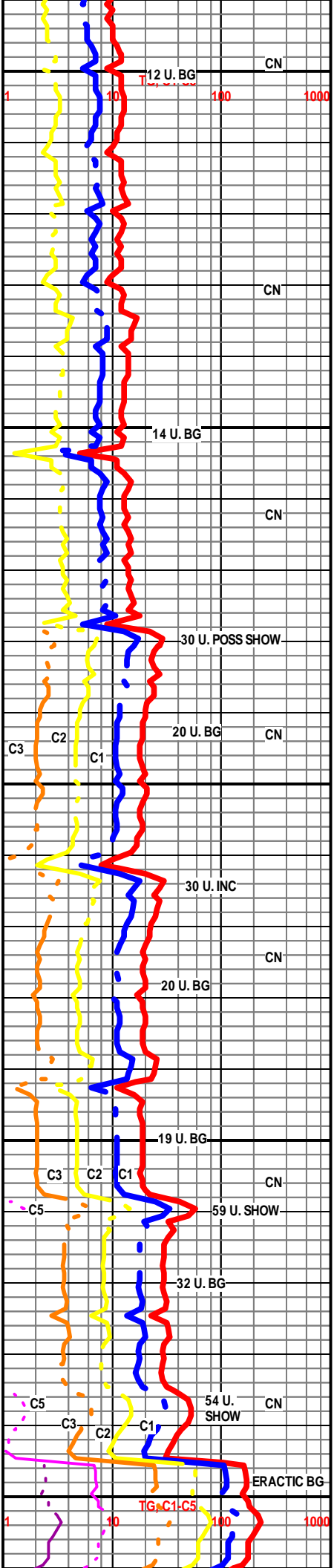
LANSING "C" 3186'-1241'

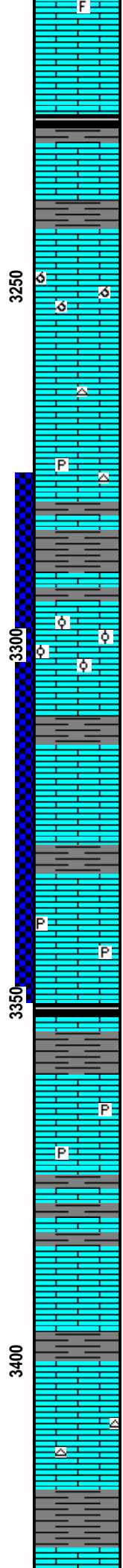
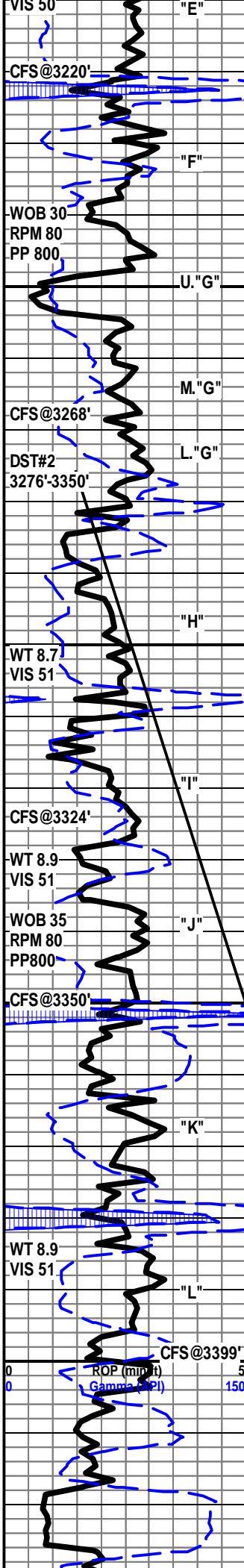
3186'-3188' LS- CRM BUFF TO LT TN W/ TN OIL STN IN 30%, HD DNS TO BRIT, MD XLN RE-XLN MTRX, S-SUCRO, S-CHLKY IP, IMBD SM CALC XLS THRU, IMBD LG CALC XLS IP, DUL YEL GLD FLO IN 60%, BRT YEL GLD FLO IN 20%, FR MICRO VUG POR SCAT IN 10%, FR INTR XLN POR IN 5%, TR POR VUG POR IP, FR FLSH CUT IN 40%, FR SLW STRM CUT IN 60%, V/ LT TN LCH ON DISH, FR OIL ODOR

3198'-3200' LS-CRM TO LT TN W/ TN OIL STN IN 20%, HD DNS TO BRIT, RE-XLN MTRX, S-SUCRO, IMBD OOLIT, IMBD SM CALC XLS IP, DUL YEL GLD FLO IN 70%, BRT YEL GLD FLO IN 20%, FR TO GD VUG POR IN 10%,



Log text providing detailed descriptions of geological formations and their characteristics, including lithology, porosity, and permeability data.





FR IN IR OOL POR IN 5%, POSS FRAC1 POR, FR FL SH CUT IN 70%, FR SLW STRM CUT IN 60%, TN LCH ON DISH, FR OIL ODOR

3207'-3209' LS- LT TN TO TN W/DK TN OIL STN IN 35%, V/HD DNS TO BRIT IP, MD TO F XLN RE-XLN IP, S-CHLKY THRU, S-SUCRO IP, IMBD LG FOSS FRG, TR FREE FOSS IP, DUL YEL GLD FLO IN 40%, SP TTD BRT YEL GLD FLO IN 10%, PR MICRO VUG POR IN 5%, PR FL SH CUT IN 30%, FR TO GD SLW STRM CUT IN 50%, V/LT TN LCH ON DISH, LT OIL ODOR

LANSING "F" 3231'-1286'

3250'-3251' LS- CRM BUFF TO LT TN DUE TO OIL STN IN 5%, HD DNS TO BRIT, MD XLN RE-XLN MTRX, S-CHLKY, ABTD SFT WHT CHLK THRU, V/OOLMLDC, DUL YEL GLD FLO IN 30%, PR TO FR OOLMLDC POR IN 50%, NO FL SH CUT, TR V/PR SLW STRM CUT IP, NO LCH ON DISH, NO OIL ODOR

LS- CRM TO LT TN, V/HD DNS TO TR BRIT, F TO V/F XLN MTRX, S-CHLKY IP, SCAT SFT WHT CHLK, TR WHT CHRT IP, NO FLO, NO POR, NO SHOW

LS- OFF WHT TO CRM BUFF, V/HD DNS TO TR BRIT, V/F XLN MTRX, SCAT PYR IP, TR WHT CHRT IP, TR V/ DUL YEL FLO IN 10%, NO VIS POR, NO VIS SHOW

LANSING "H" 3393'-1348'

3298'-3300' LS- CRM TO LT TN W/ TN OIL STN SCAT IN 30%, HD DNS TO BRIT, MD XLN RE-XLN MTRX, S-SUCRO, IMBD OOL THRU, TR PYR IP, DUL YEL GLD FLO IN 50%, BRT YEL GLD FLO SCAT IN 20%, FR TO GD INTR OOL POR IN 15%, PR FL SH CUT THRU, FR TO GD SLW STRM CUT IN 40%, LT TN LCH ON DISH, FR OIL ODOR

3315'-3317' LS-TN TO DK TN W/ DK TN OIL STN IN 90%, HD DNS TO BRIT, MD XLN SUCRO MTRX, DUL YEL GLD FLO IN 100%, PR TO FR MICRO VUG POR SCAT IN 15%, GD FL SH CUT THRU, GD MLKY BLU SLW STRM CUT IN 90%, DK TN LCH ON DISH, STRG OIL ODOR

LS- OFF WHT TO CRM LT TN, HD DNS TO BRIT IP, F TO V/F XLN MTRX, RE-XLN IP, S-CHLKY IP, SCAT SFT WHT CHLK, TR PYR IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

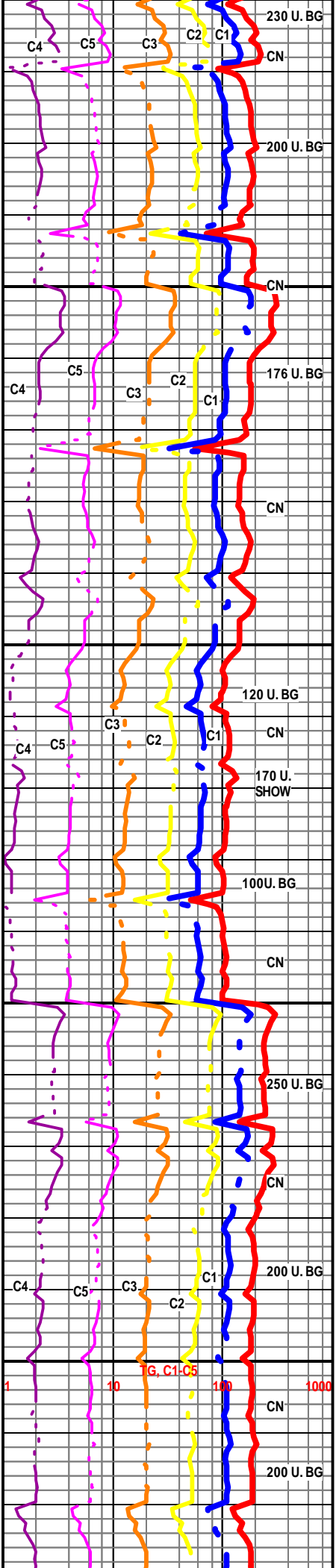
LS- CRM TO LT TN, V/HD DNS TO TR BRIT IP, V/F XLN MTRX RE-XLN IP, SCAT PYR IP, V/ DUL YEL FLO THRU, NO VIS POR, NO VIS CUT OR SHOW

LS- OFF WHT TO CRM, HD DNS TO BRIT IP, MD TO F XLN MTRX, S-SUCRO, SCAT IMBD SM CALC XLS IP, SCAT SFT WHT CHLK IN TRAY, V/ DUL YEL FLO IN 70%, NO VIS POR, NO VIS CUT OR SHOW

BKC 3396'-1451'

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

3433'-3437' SS- CRM TO LT TN TO TN W/ DK TN OIL STN



W.O.B 30
RPM 80
PP 800

3450

3500

3550

WT. 8.9
VIS 50

CFS@3565
30,60

RTD@3565'

CTCH 1:45

IN70%, V/HD TT TO FRI IP, F TO V/F RND TO S-RND QRTZ GRN, PR TO WL SRT, CALC CMNT, V/DUL YEL GLD FLO IN 40%, V/PR INTR GRN POR IP, GD FLSH CUT IN 80%, V/GD SLW STRM CUT IN 90% TN LCH ON DISH, ABTD FREE FLTING OIL IN TRAY

SH-RED TO DK RED GRN MOTTLD, V/FRM TO SFT IP, ABTD MOTTLD CHRT THRU

ARBUCKLE 3463'-1518'

3466'-3468' DOLO-LT TN TO TN, V/HD DNS, F XLN RE-XLN MTRX, ABTD IMBD SM S-ANG TO RND DOLO GRN THRU, IMBD SM S-ANG CLR QRTZ GRN IP, ABTD MOTTLD CHRT THRU, V/DUL YEL FLO THRU, V/PR TO PR INTR GRN POR IN 5%, NO FLSH CUT, TR V/PR SLW STRM IP, NO LCH ON DISH

DOLO- OFF WHT TO CRM, HD DNS TO BRIT, MD-XLN RE-XLN, S-CHLKY, ABTD IMB SM RND DOLO GRNS THRU, ABTD SFT WHT CHLK THRU, SCAT MOTT CHRT IP, DUL YEL MIN FLO IN 40%, TR V PR INTER-GRN POR IP, NO VIS CUT OR SHOW

3506'-3508' DOLO-OFF WHT TO CRM W/ LT TN OIL STN IN 5%, DOS SCAT IN 10%, HD DNST TO BRIT IP, MD XLN RE-XLN MTRX, S-SUCRO IP, ABTD IMBD SM TO MD S-ANG TO RND DOLO GRNS THRU, MOTTLD CHRT IP, DUL YEL GLD FLO IN 10%, V/PR INTR GRN POR SCAT IN 5%, V/PR FLSH CUT 20%, PR TO FR SLW STRM CUT IN 30%, NO OIL ODOR

DOLO- OFF WHT TO WHT, HD DNS TO BRIT IP, F XLN MTRX RE-XLN IP, ABTD IMBD RND TO S-RND DOLO GRN THRU, SCAT MOTTLD CHRT THRU, BRT YEL MIN FLO IN 70%, NO VIS POR, NO VIS CUT OR SHOW

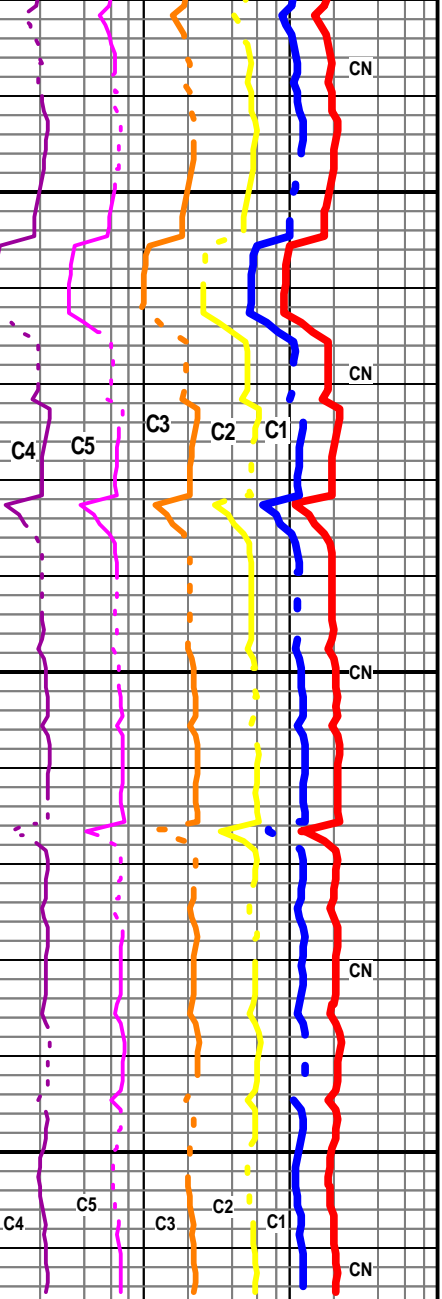
DOLO- WHT TO OFF WHT, V/HD DNS TO TR BRIT IP, F XLN RE-XLN MTRX, S-SUCRO IP, SCAT IMBD S- ANG TO REN CLR QRTZ GRNS THRU, IMBD SM TO MD RND DOLO GRNS IP, V/ DUL YEL FLO THRU, NO VIS POR, NO VIS SHOW

R.T.D. 10:15 AM 5/17/12

DROP SURVEY

T.O.F.L. @ 12:00 PM

WEATHERFORD/LIBERAL, KS



RTD@3565'

SAMPLES WILL BE DELIVERED TO KGS

THANK YOU FOR CHOOSING EARTH TECH

SCHUYLER HEDRICK & AARON SUELTER