



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1079971
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: _____

1079971

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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No 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: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--	---

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> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
--	---	---

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	ELSIE 2-13
Doc ID	1079971

All Electric Logs Run

ARRAY IND
DEN-NEUT
MICRO
SONIC
SPECTRAL GR

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	ELSIE 2-13
Doc ID	1079971

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	3270-3273	500 GAL 28% MCA W/ 3% MAS	3270-3273
	CIPB		3333
4	3339-3343	500 GAL 28% MCA W/ 3% MAS	3339-3343
	CIPB		3400
4	3409-3414	500 GAL 28% MCA W/ 3% MAS	3409-3414
4	3431-3439	500 GAL 28% MCA W/ 3% MAS	3431-3439



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: 1/13/2012
 Invoice # 207

P.O.#:
 Due Date: 2/12/2012
 Division: Russell

Invoice

V1201-AP-418

2/2

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

Reference:
 ELSIE 2-13

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		\$ 977.42	No	Baffle Plate Aluminum, 8 5/8"	1	\$96.34	Yes
Common-Class A	370	\$ 4,831.89	Yes				
8 5/8" Basket	3	\$ 1,014.76	Yes				
Bulk Truck Matl-Material Service Charge	390	\$ 834.93	No				
Calcium Chloride	13	\$ 524.06	Yes				
Pump Truck Mileage-Job to Nearest Camp	24	\$ 256.39	No				
8 5/8" Centralizer	3	\$ 205.52	Yes				
Flo Seal	92	\$ 196.96	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	24	\$ 150.03	No				
Premium Gel (Bentonite)	7	\$ 121.99	Yes				
8 5/8" Top Rubber Plug	1	\$ 113.46	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 9,323.74
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,398.56)

SubTotal for Taxable Items: \$ 6,039.23
 SubTotal for Non-Taxable Items: \$ 1,885.96

6.30% Rush County Sales Tax

Total: \$ 7,925.18
 Tax: \$ 380.47
Amount Due: \$ 8,305.65
Applied Payments:
Balance Due: \$ 8,305.65

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

JAN 16 2012

SAMUEL GARY JR.
 & ASSOCIATES, INC.

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

No. 207

Phone 5-324-1041

Cell	Date	Sec.	Twp.	Range	County	State	On Location	Finish
	1/10/12	13	16	17	Rush	KS		11/4 SA

Lease Elsie Well No. 2-13 Location Loretta, 2 E, 3/4 N, W into

Contractor Discovery Drilling Rig #2 Owner To Quality Oilwell Cementing, Inc.

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

Hole Size 12 1/4" T.D. 1112' Charge To Sam Gary Jr. + Associates, Inc.

Csg. 8 5/8" Depth 1112' Street

Tbg. Size Depth City State

Tool Depth City State

Cement Left in Csg. 38 Shoe Joint 38 The above was done to satisfaction and supervision of owner agent or contractor.

Meas Line Displace 68 1/2 Bbls. Cement Amount Ordered 370 ex Com 3% to C 2% gel 4% Proce

EQUIPMENT

Pumptrk <u>9</u> No. <u>Paul</u>	Common <u>370</u>
Bulktrk <u>13</u> No. <u>Matt</u>	Poz. Mix
Bulktrk <u>PV</u> No. <u>Cory</u>	Gel. <u>7</u>

JOB SERVICES & REMARKS

Remarks:	Calcium <u>13</u>
Rat Hole	Hulls
Mouse Hole	Salt
Centralizers <u>1, 16, 22</u>	Flowseal <u>92#</u>
Baskets <u>2, 17, 23</u>	Kol-Seal
D/V or Port Collar	Mud CLR 48
<u>Est Circ</u>	CFL-117 or CD110 CAF 38
<u>Mix 370 ex</u>	Sand
<u>Displace</u>	Handling <u>390</u>
<u>Land Plug</u>	Mileage
<u>Cement Circulated</u>	<u>8 5/8"</u> FLOAT EQUIPMENT
	Guide Shoe
	Centralizer <u>3</u>
	Baskets <u>3</u>
	AFU Inserts
	Float Shoe
	Latch Down
	<u>Baffle Plate + Rubber Plug</u>
	<u>Head + Manifold</u>
	Pumptrk Charge
	Mileage <u>24</u>

Thank You!!

X Signature

Tax
Discount
Total Charge



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

Date: 1-18-2012
 Invoice # 212
 P.O.#:
 Due Date: 2-18-2012
 Division: Russell

Invoice

V1201-AP-503 2/9

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

Reference:
 ELSIE 2-13

Description of Work:
 PROD LONG STRING

DRLG COMP W/O LOE GG

Account	\$300,238
Well/Prospect	
Deck	
AFE	
Approval	<i>[Signature]</i>
Description	

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 950.65	No	Salt (Fine)	19	\$276.14	Yes
Common-Class A	225	\$ 2,357.81	Yes	Pump Truck Mileage-Job to Nearest Camp	24	\$249.36	No
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	24	\$145.92	No
5 1/2" Basket	3	\$ 718.56	Yes	Flo Seal	56	\$116.60	Yes
Bulk Truck Matl-Material Service Charge	255	\$ 530.96	No	KCL	2	\$62.17	Yes
CD-110	117	\$ 487.23	Yes				
5 1/2" Turbolizer	8	\$ 485.07	Yes				
Mud Clear	500	\$ 385.21	Yes				
Defoamer A or CAF-38	50	\$ 364.38	Yes				
Auto Fill Float Shoe, 5 1/2"	1	\$ 318.58	Yes				

Invoice Terms:

Net 30

	SubTotal:	\$	10,959.01
	Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:	\$	(1,643.85)
SubTotal for Taxable Items:		\$	7,719.81
SubTotal for Non-Taxable Items:		\$	1,595.35
Total:		\$	9,315.16
Tax:		\$	486.35
Amount Due:		\$	9,801.51
Applied Payments:			
Balance Due:		\$	9,801.51

0.30% Rush 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

JAN 20 2012

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

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

No. 212

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

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

Date	1/13/12	Sec.	13	Twp.	16	Range	17	County	Rush	State	KS	On Location		Finish	9:15AM
------	---------	------	----	------	----	-------	----	--------	------	-------	----	-------------	--	--------	--------

Lease	ELSIE	Well No.	2-13	Location	Loretta, 2E, 34N, Winto
-------	-------	----------	------	----------	-------------------------

Contractor	Discovery Drilling Rig #2	Owner	To Quality Oilwell Cementing, Inc.
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Type Job	Production String	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.		Charge To	Sam Gary Jr. + Associates, Inc.
-----------	--------	------	--	-----------	---------------------------------

Csg.	5 1/2" 15.50#	Depth	3628'	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.	22'	Shoe Joint	22'	Cement Amount Ordered	225 sx (2-Pro C 10% Salt
---------------------	-----	------------	-----	-----------------------	--------------------------

Meas Line		Displace	85 3/4 Bbls.	5% Gilsonite, 1/4# Fluok, .3% CD-110	.8% CFL-117
-----------	--	----------	--------------	--------------------------------------	-------------

EQUIPMENT

Pumptrk	9	No.	Cementer	Paul	Common	.25% CAF 38
			Helper			
Bulktrk	10	No.	Driver	Matt	Poz. Mix	
			Driver			
Bulktrk	AV	No.	Driver	Doug	Get.	KCL 2 gal
			Driver			

JOB SERVICES & REMARKS

Remarks:		Hulls	
Rat Hole	30sx	Salt	19
Mouse Hole	20sx	Flowseal	56#
Centralizers	1,3,5,7,9,11,13,15	Kol-Seal	1057#
Baskets	3,9,15	Mud CLR 48	500gal./20 Bbls. KCL
D/V or Port Collar		CFL-117 or CD110 CAF 38	50#
Est. Circ. - 1 hour		Sand	176#
Pump 500gal Mud Clear - 48		Handling	255
Plug Rat/Mouse		Mileage	5 1/2" FLOAT EQUIPMENT
Mix 175 sx down 5 1/2"		Guide Shoe	
Displace - 20 Bbls. KCL		Centralizer	8 - Turbos
Land Plug - 1500#		Baskets	3
Float Held		AFU Inserts	
List PSE - 800#		Float Shoe	1
		Latch Down	w/ Plug Rotating Head

Thank You!!

Pumptrk Charge	prod long string
Mileage	24

X Signature *[Handwritten Signature]*

Tax	
Discount	
Total Charge	



DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr. & Ass.**

Wynkoop st. Suite 700,
Denver CO,

ATTN: Tom Fertal

Elsie 2-13

13-16s-17w Rush

Start Date: 2012.01.13 @ 09:29:00

End Date: 2012.01.13 @ 17:19:00

Job Ticket #: 46343 DST #: 1

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

Printed: 2012.01.13 @ 17:24:25



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Ass.

13-16s-17w Rush

Wynkoop st. Suite 700,
Denver CO,

Elsie 2-13

Job Ticket: 46343

DST#: 1

ATTN: Tom Fertal

Test Start: 2012.01.13 @ 09:29:00

GENERAL INFORMATION:

Formation: **KC "A-C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:28:00

Time Test Ended: 17:19:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Cody Bloedorn

Unit No: 39

Interval: 3244.00 ft (KB) To 3300.00 ft (KB) (TVD)

Reference Elevations: 1979.00 ft (KB)

Total Depth: 3300.00 ft (KB) (TVD)

1971.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8017

Inside

Press @ Run Depth: 186.60 psig @ 3280.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.01.13

End Date:

2012.01.13

Last Calib.:

2012.01.13

Start Time: 09:29:05

End Time:

17:18:59

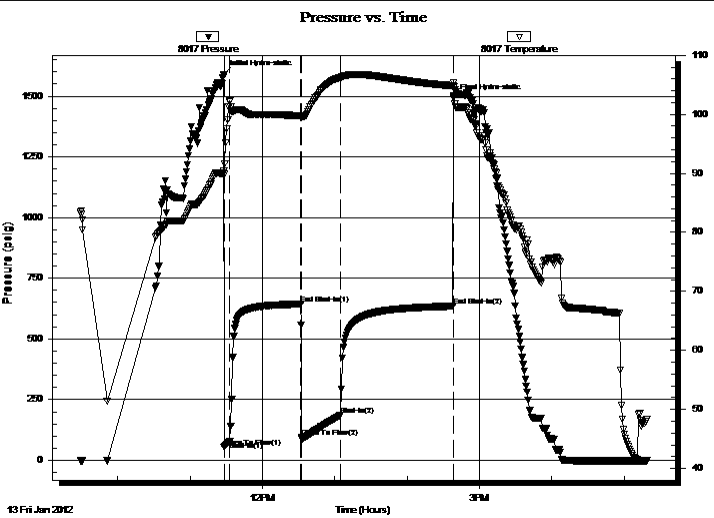
Time On Btm:

2012.01.13 @ 11:27:50

Time Off Btm:

2012.01.13 @ 14:38:20

TEST COMMENT: 05 - IF- B.O.B. in 3 Min.
60 - IS- Surface blow, died in 17 Min.
FF- B.O.B. in 1 Min.
FS- B.O.B. in 27 Min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1589.63	90.34	Initial Hydro-static
1	53.92	89.81	Open To Flow (1)
5	77.48	102.06	Shut-In(1)
64	643.44	99.73	End Shut-In(1)
65	96.15	99.60	Open To Flow (2)
97	186.60	106.26	Shut-In(2)
191	634.93	104.82	End Shut-In(2)
191	1491.90	105.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	GMW, Oil scum, 5%G, 10%M, 85%W	2.33
186.00	GHOCM, 30%G, 30%M, 40%O	2.61
0.00	682' of G.I.P.	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr. & Ass.

13-16s-17w Rush

Wynkoop st. Suite 700,
Denver CO,

Elsie 2-13

Job Ticket: 46343

DST#: 1

ATTN: Tom Fertal

Test Start: 2012.01.13 @ 09:29:00

Tool Information

Drill Pipe:	Length: 3188.00 ft	Diameter: 3.80 inches	Volume: 44.72 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 44.87 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3244.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	56.00 ft			
Tool Length:	93.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Change Over Sub	1.00			3208.00	
Recorder	0.00	8647	Fluid	3208.00	
Change Over Sub	5.00			3213.00	
Shut In Tool	5.00			3218.00	
Sampler	3.00			3221.00	
Hydraulic tool	5.00			3226.00	
Jars	5.00			3231.00	
Safety Joint	3.00			3234.00	
Packer	5.00			3239.00	37.00 Bottom Of Top Packer
Packer	5.00			3244.00	
Stubb	1.00			3245.00	
Perforations	3.00			3248.00	
Change Over Sub	1.00			3249.00	
Drill Pipe	31.00			3280.00	
Recorder	0.00	8017	Inside	3280.00	
Recorder	0.00	8352	Inside	3280.00	
Change Over Sub	1.00			3281.00	
Perforations	16.00			3297.00	
Bullnose	3.00			3300.00	56.00 Bottom Packers & Anchor

Total Tool Length: 93.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Ass.

13-16s-17w Rush

Wynkoop st. Suite 700,
Denver CO,

Elsie 2-13

Job Ticket: 46343

DST#: 1

ATTN: Tom Fertal

Test Start: 2012.01.13 @ 09:29:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

98000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 cm³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
186.00	GMW, Oil scum, 5%G, 10%M, 85%W	2.327
186.00	GHOCM, 30%G, 30%M, 40%O	2.609
0.00	682' of G.I.P.	0.000

Total Length: 372.00 ft Total Volume: 4.936 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

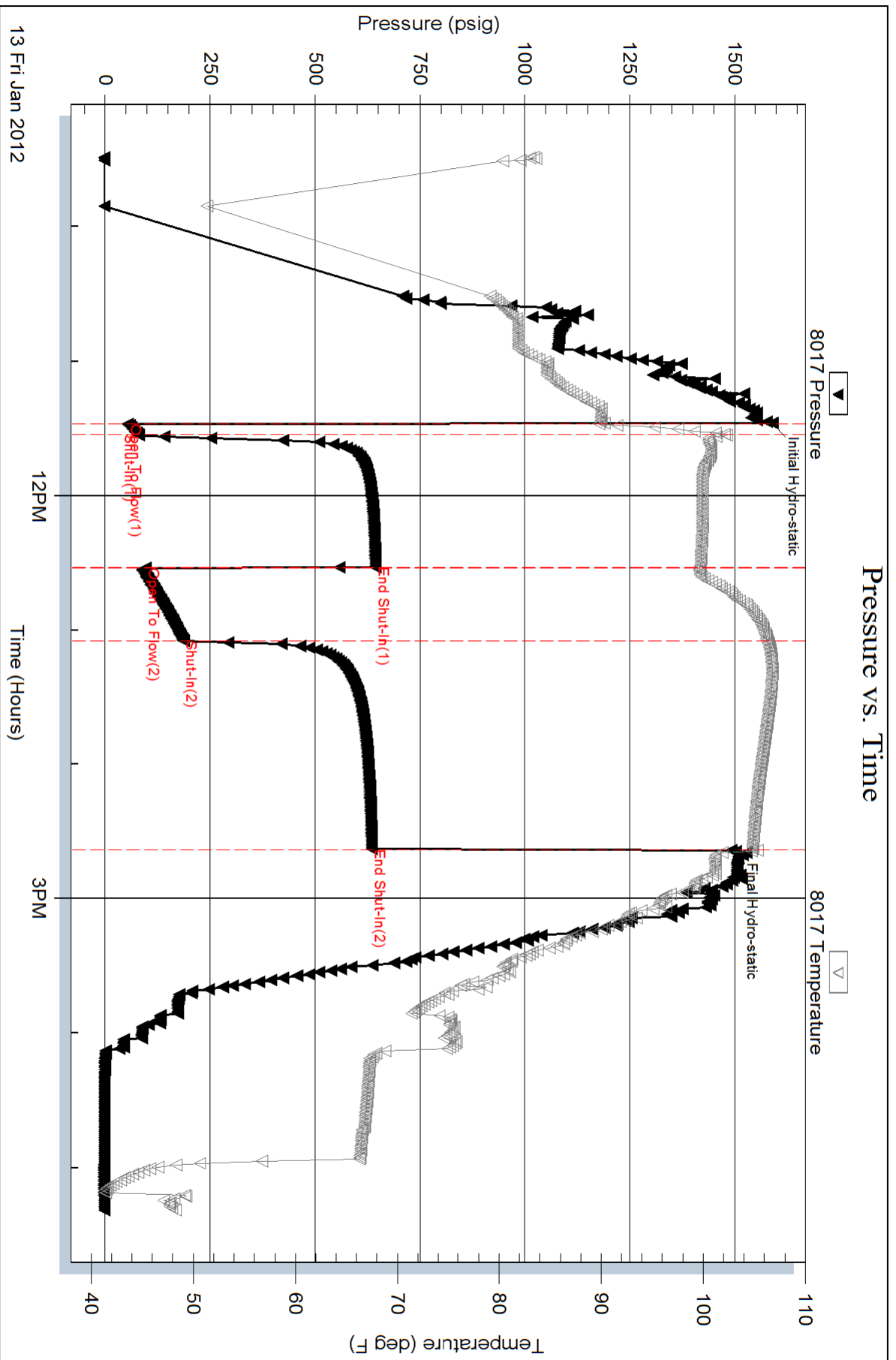
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler: have a new sampler, Did not work, replacing sampler with a different one. Did NOT recover anything in sampler.

Pressure vs. Time



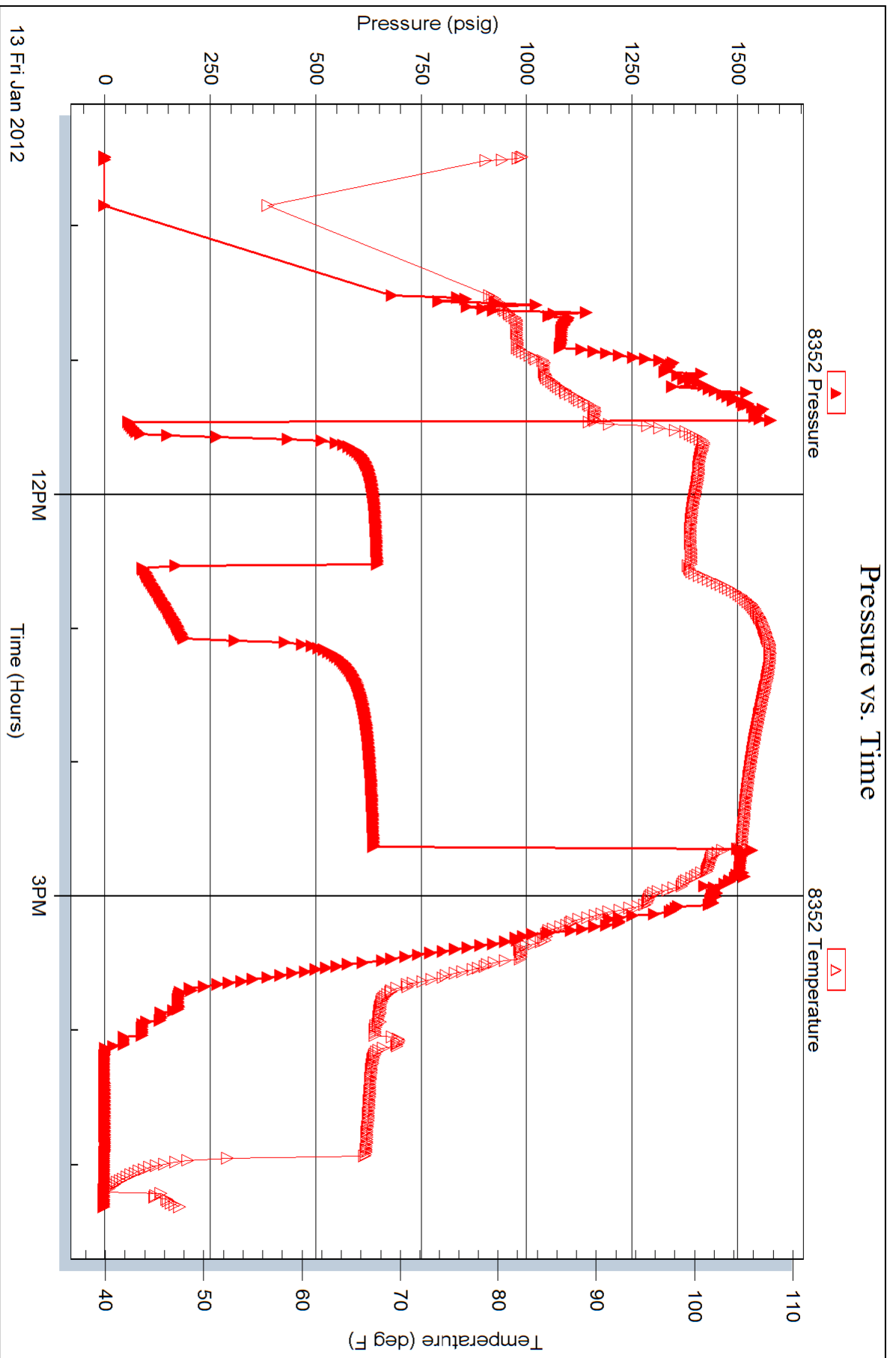
Serial #: 8352

Inside

Samuel Gary Jr. & Ass.

Esie 2-13

DST Test Number: 1



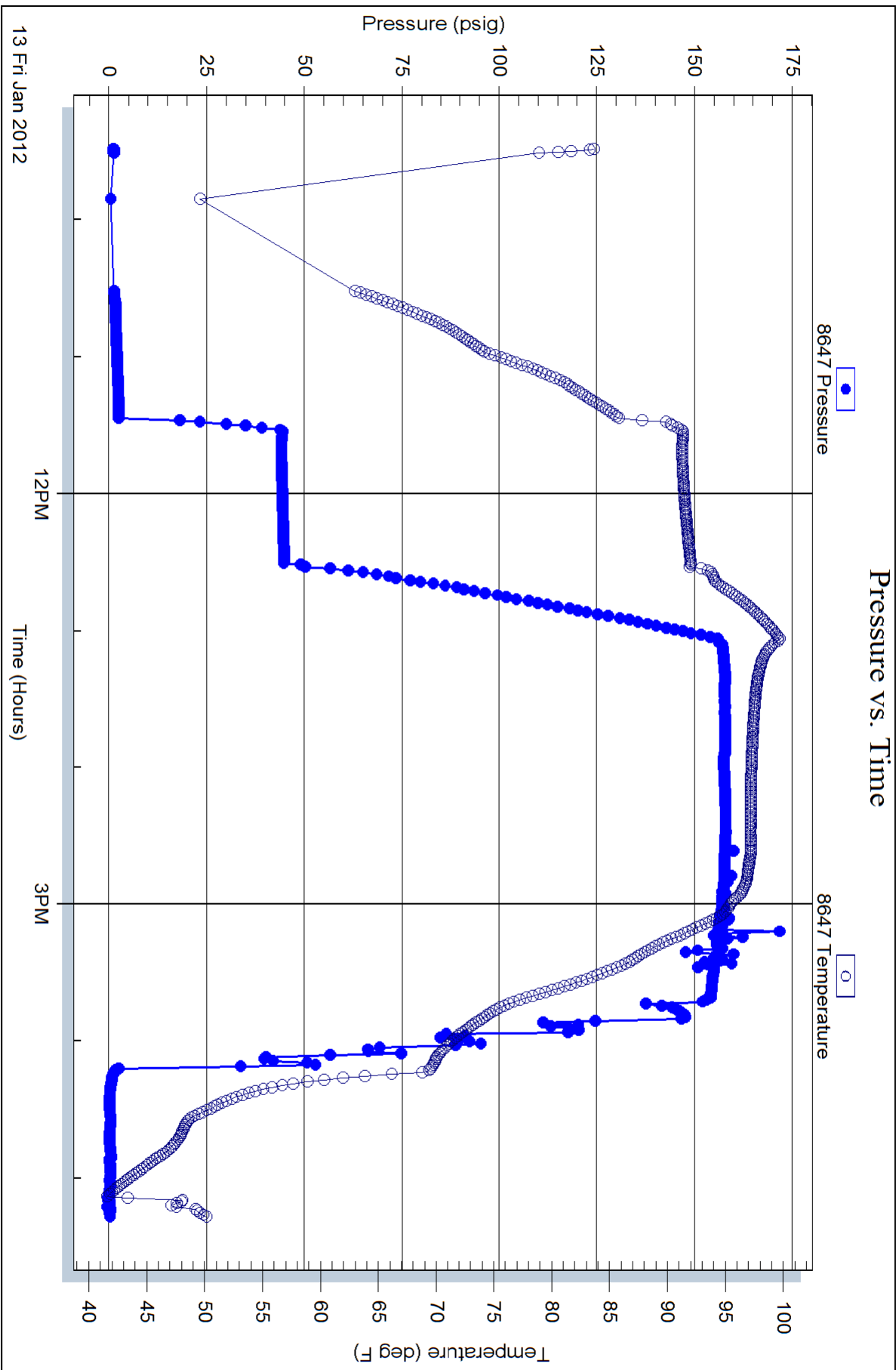
Serial #: 8647

Fluid

Samuel Gary Jr. & Ass.

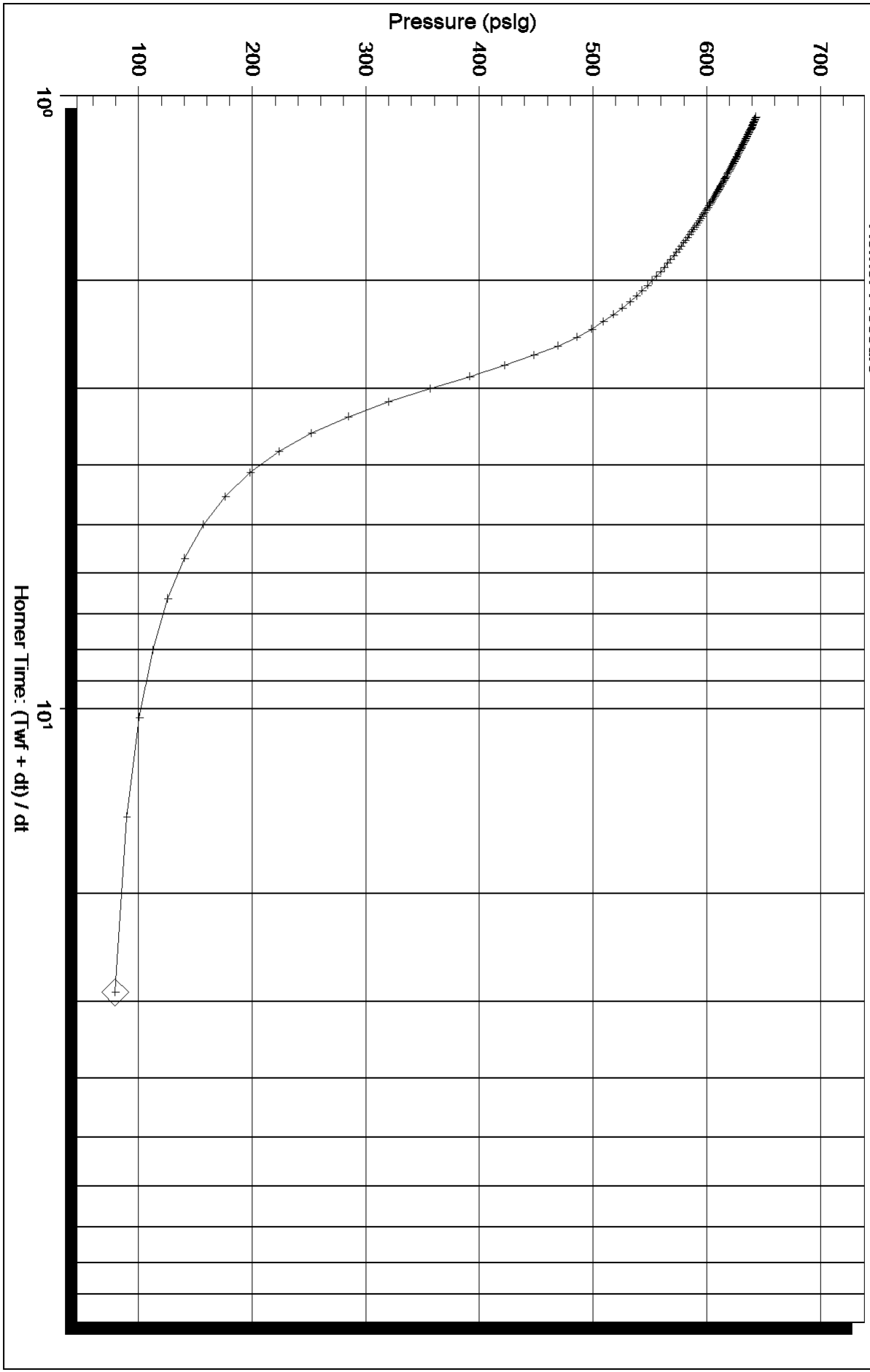
Esie 2-13

DST Test Number: 1



Horner Plot

Horner Pressure +



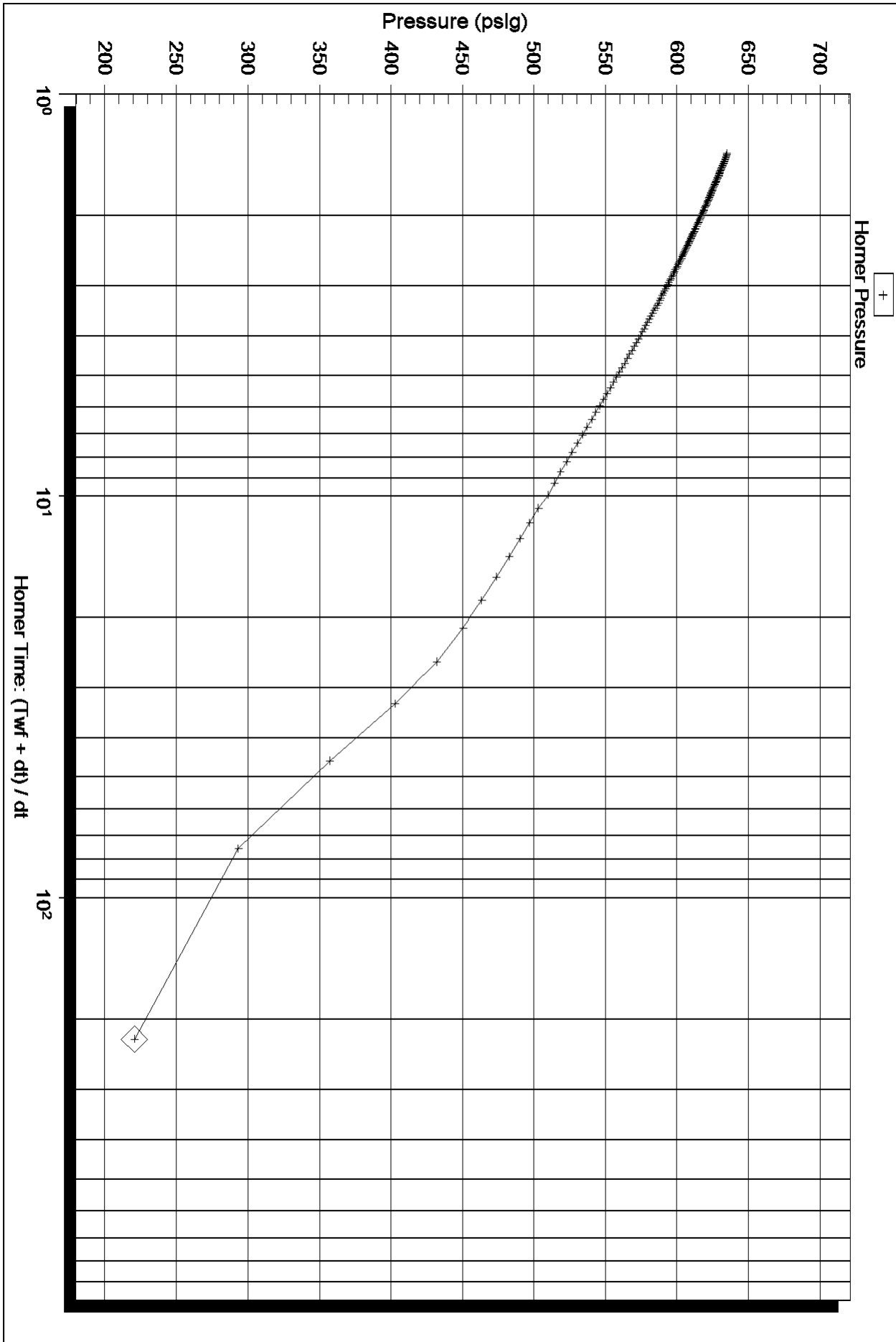
Serial Number: 8017 (Inside)

P* :

Slope (m) : kpa/log cycle

Flow Cycle: 1

Horner Plot



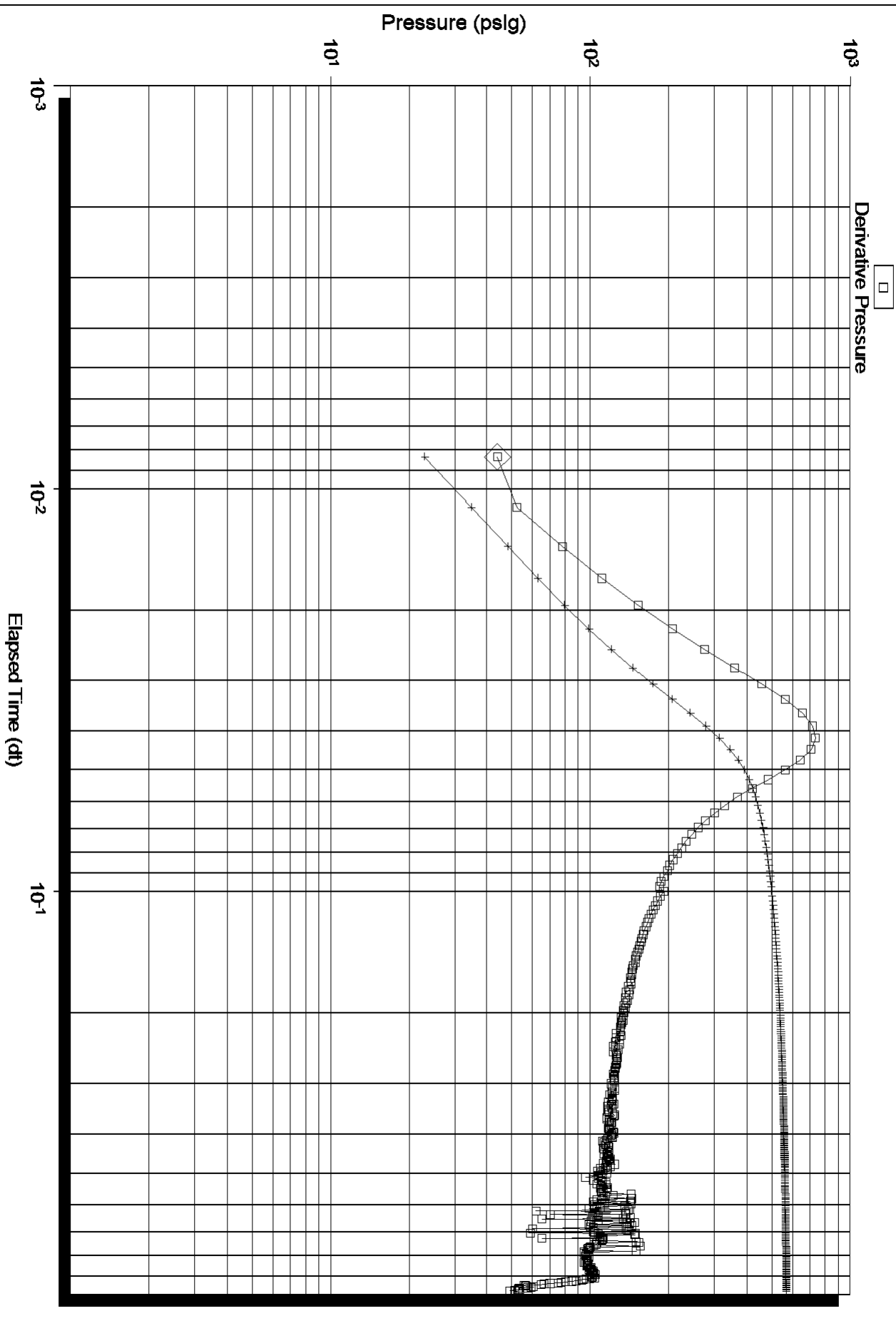
Serial Number: 8017 (Inside)

P* :

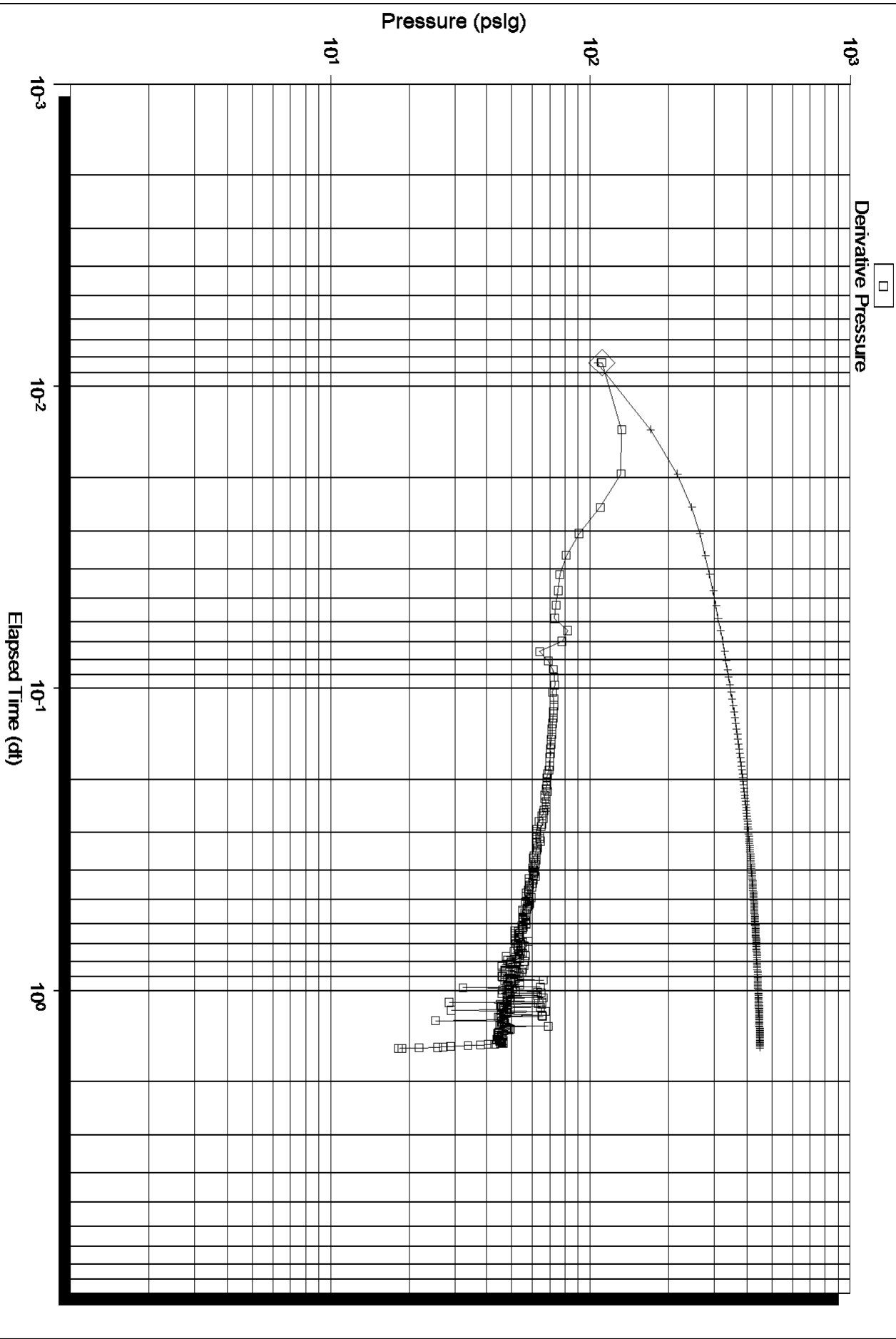
Slope (m) : kpa/log cycle

Flow Cycle: 2

Log-Log and Pseudo-Derivative



Log-Log and Pseudo-Derivative





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

Well Name: Elsie # 2-13
Location: Sec. 13- 16S- 17W Rush County. Kansas
License Number: 15-165-21954-0000
Spud Date: 1/09/2012
Surface Coordinates: 690' FNL / 1190' FEL
Region: Wildcat
Drilling Completed: 1/14/2012

Bottom Hole
Coordinates:
Ground Elevation (ft): 1971' K.B. Elevation (ft): 1979'
Logged Interval (ft): 1800' To: 3640' Total Depth (ft): 3640'
Formation: LANSING, ARBUCKLE
Type of Drilling Fluid: Natural Chemical

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

OPERATOR

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

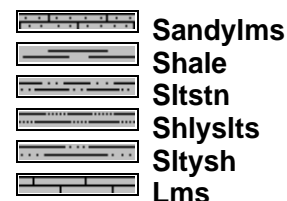
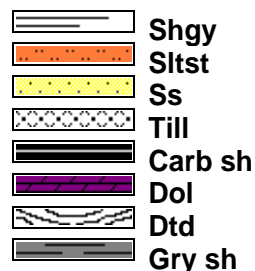
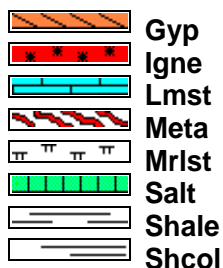
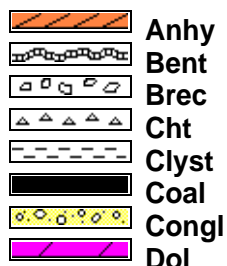
GEOLOGIST

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

DSTs

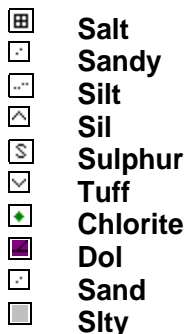
DST#1 3244'-3300' 5-60-30-95
IF- B.O.B IN 3 MIN., ISI- SURF. BLW DIED IN 17 MIN., FF- B.O.B IN 1 MIN., FSI- B.O.B IN 27 MIN.
IH- 1589, FH- 1491/ IF- 53 TO 77, FF- 96 TO 186/ ISI- 643, FSI- 634
REC. 682' OF GIP/ 372' OF TF, 186' GHOCFM 30% GAS, 40% OIL, 30% MUD/ 186' GMW OIL SCUM 5% GAS, 85%
WATER, 10% MUD BHT 104 DEG./ RW- .17 AT 46 DEG., CHLO. 98,000, PIT CHLOR. 2800

ROCK TYPES

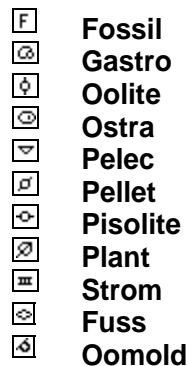
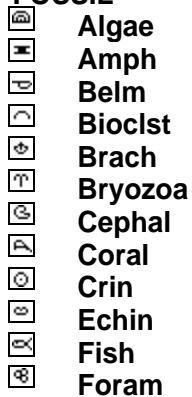


ACCESSORIES

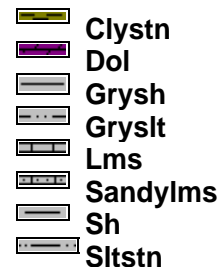
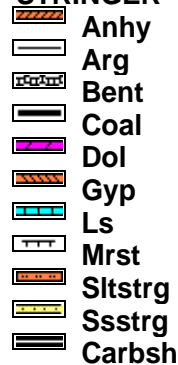
MINERAL



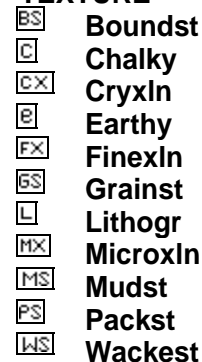
FOSSIL



STRINGER

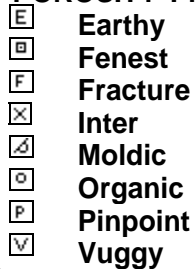


TEXTURE

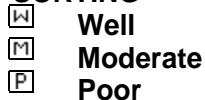


OTHER SYMBOLS

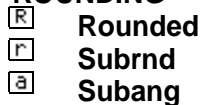
POROSITY TYPE



SORTING



ROUNDING



OIL SHOWS

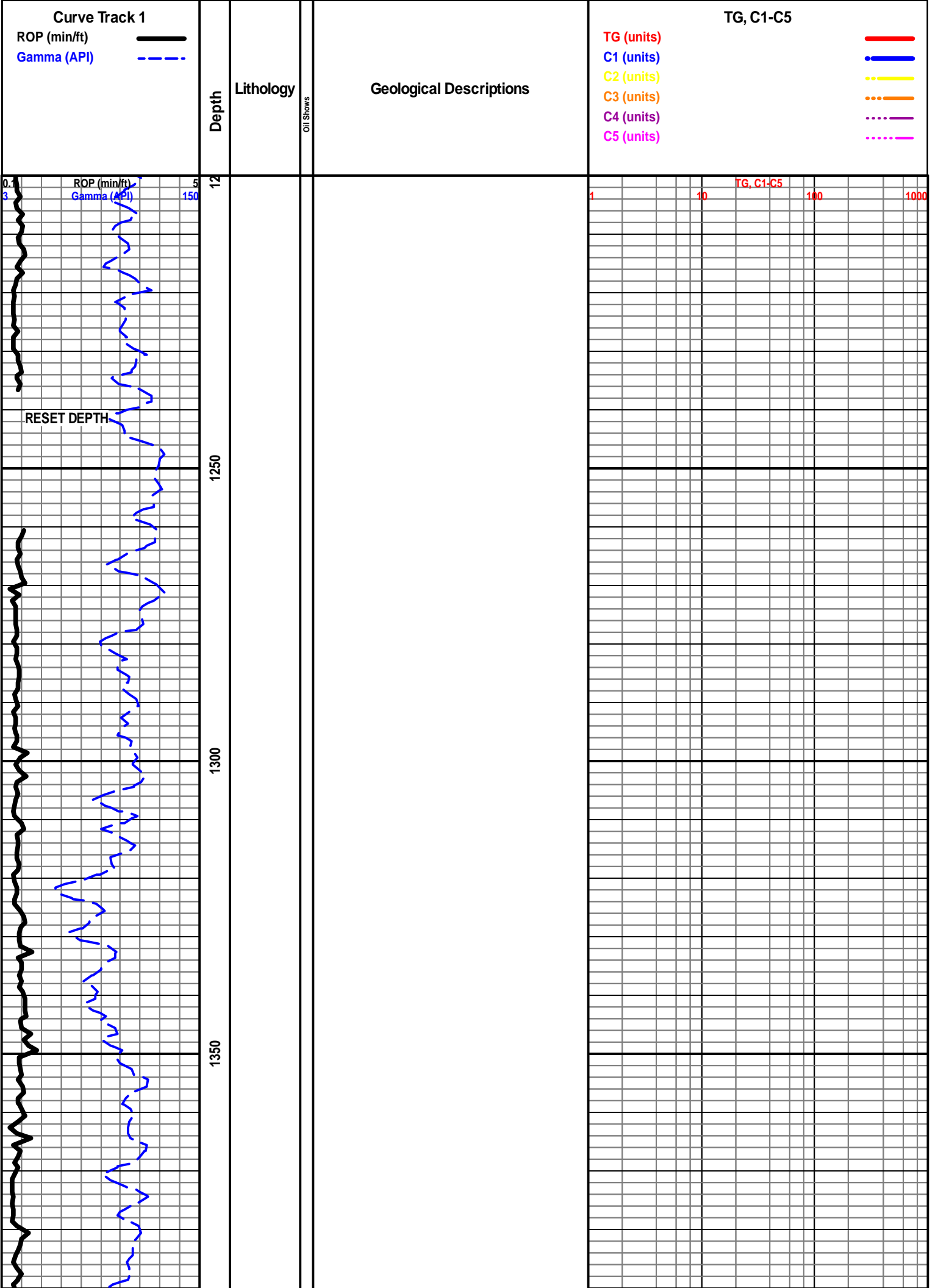


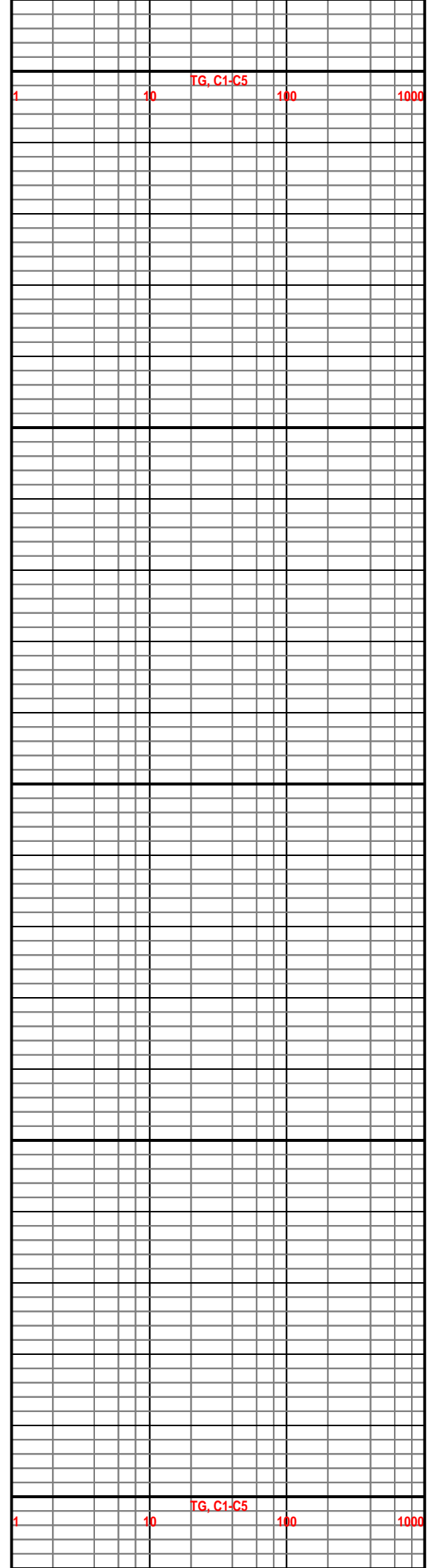
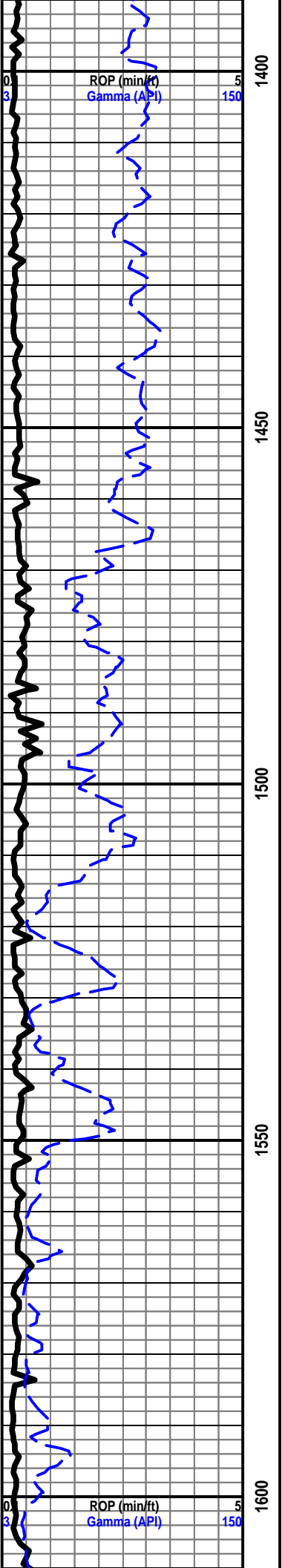
INTERVALS

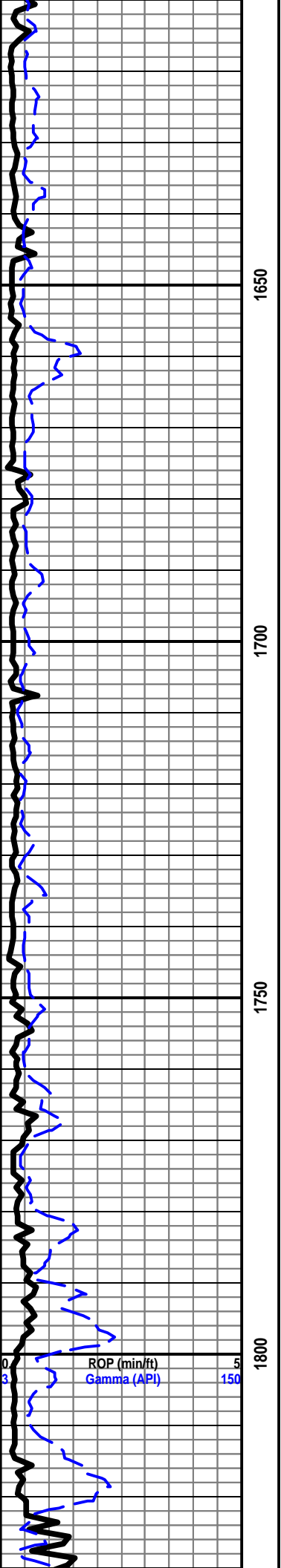


EVENTS





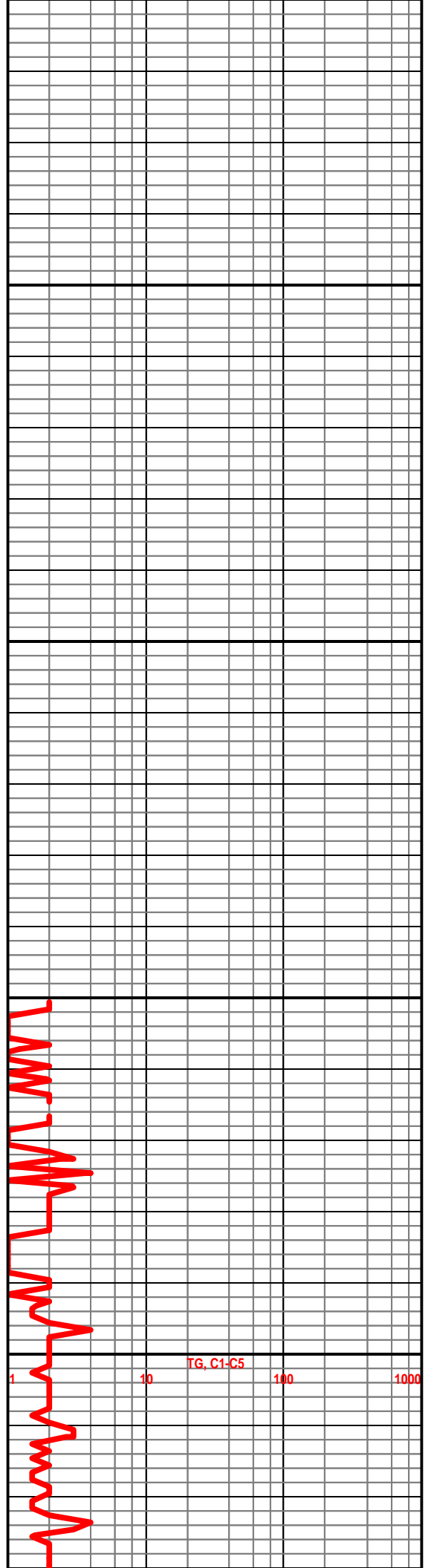


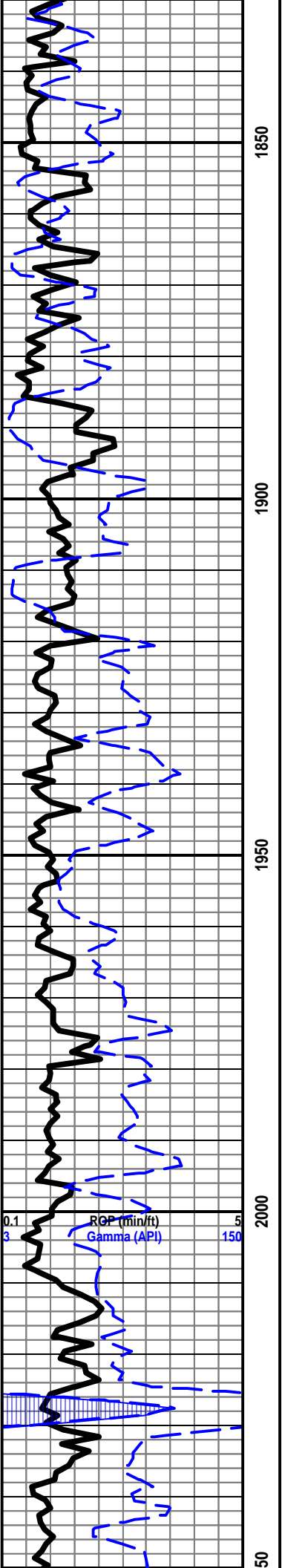


START UNMANNED UNIT 1/ 11/ 2012

DISCOVERY RIG 2

TERRY WICKHAM





1850

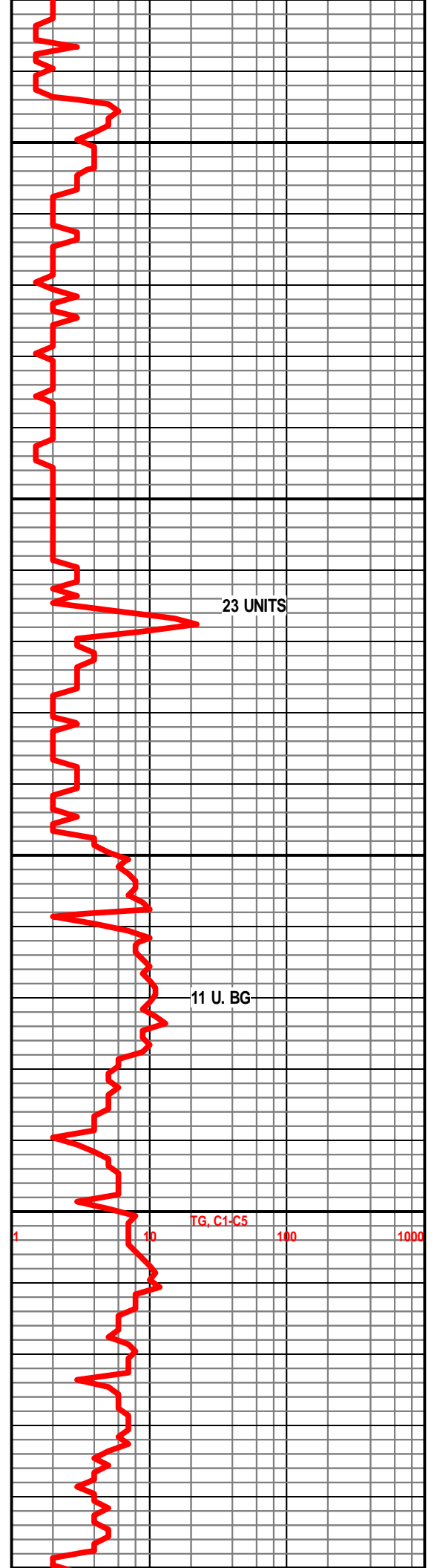
1900

1950

2000

50

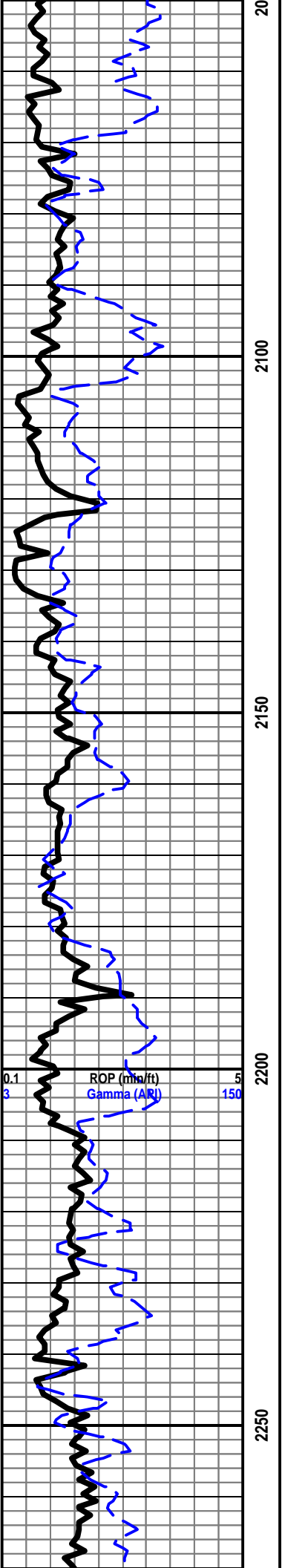
0.1 ROP (min/ft) 5
3 Gamma (API) 150



23 UNITS

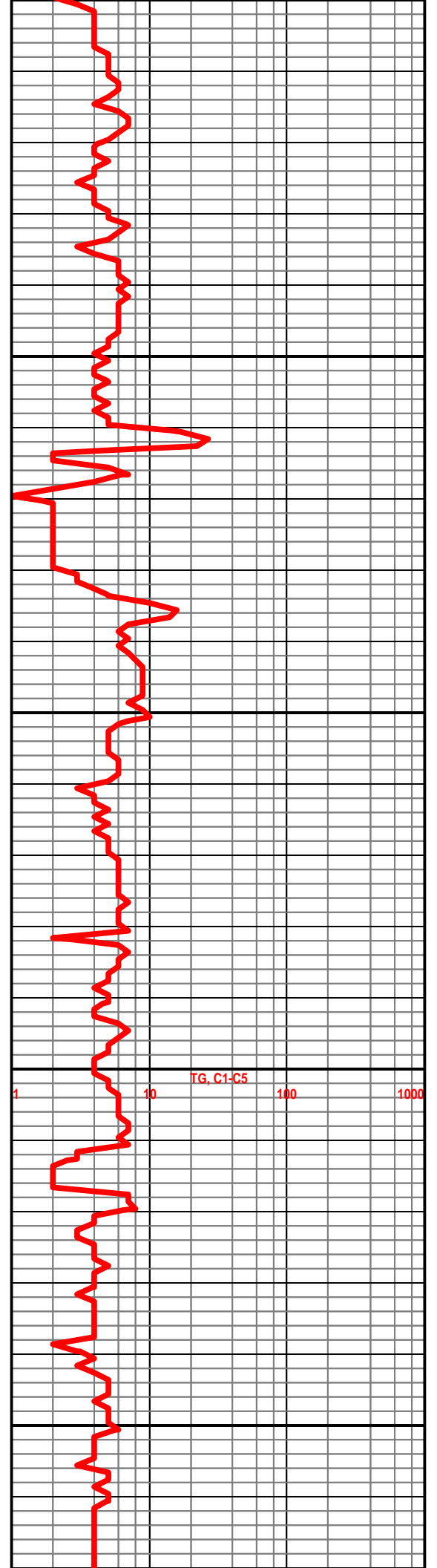
11 U. BG

TG, C1-C5 1 10 100 1000

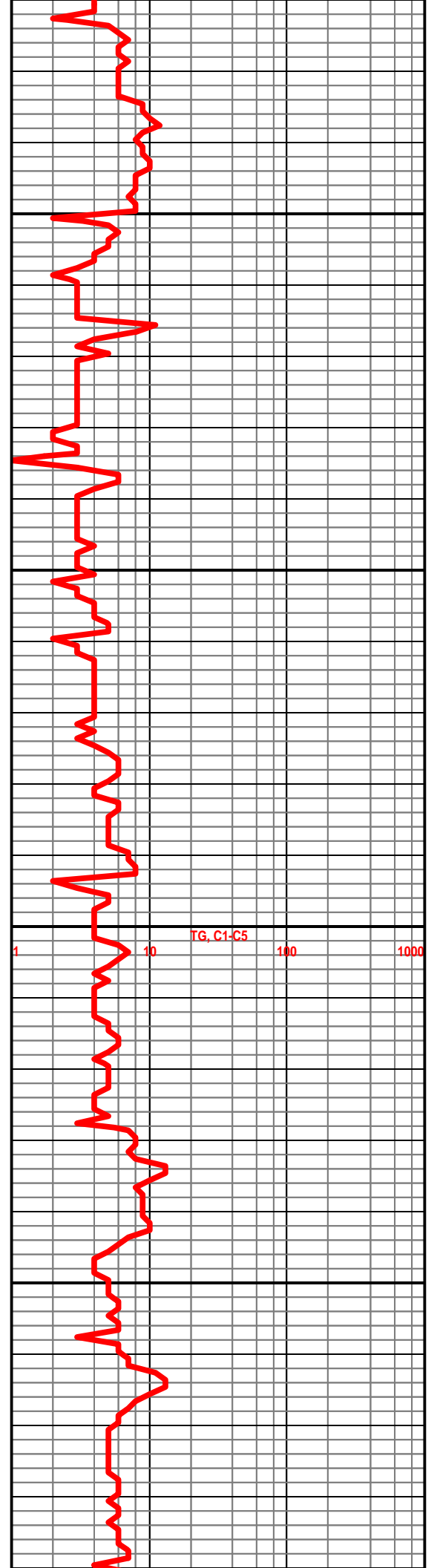
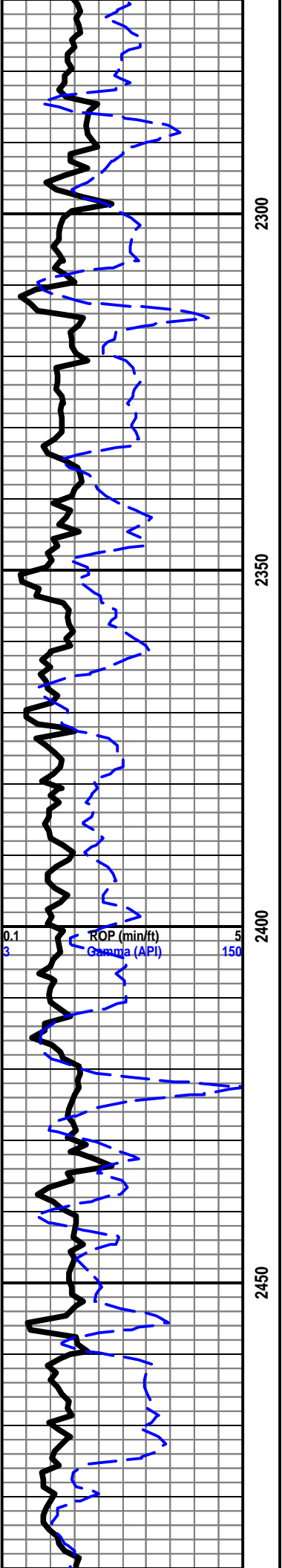


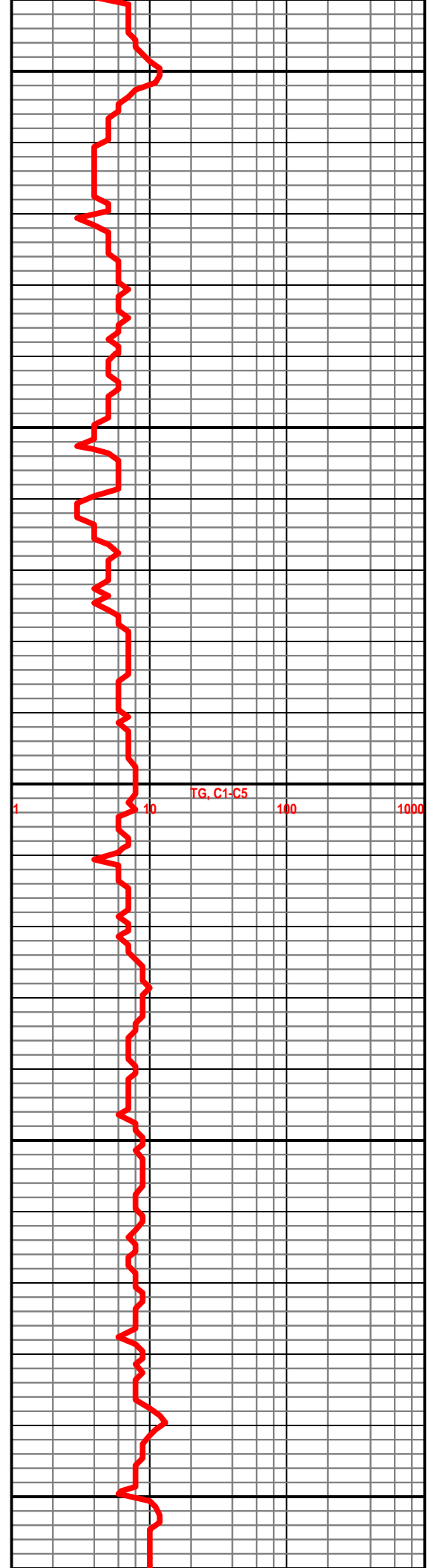
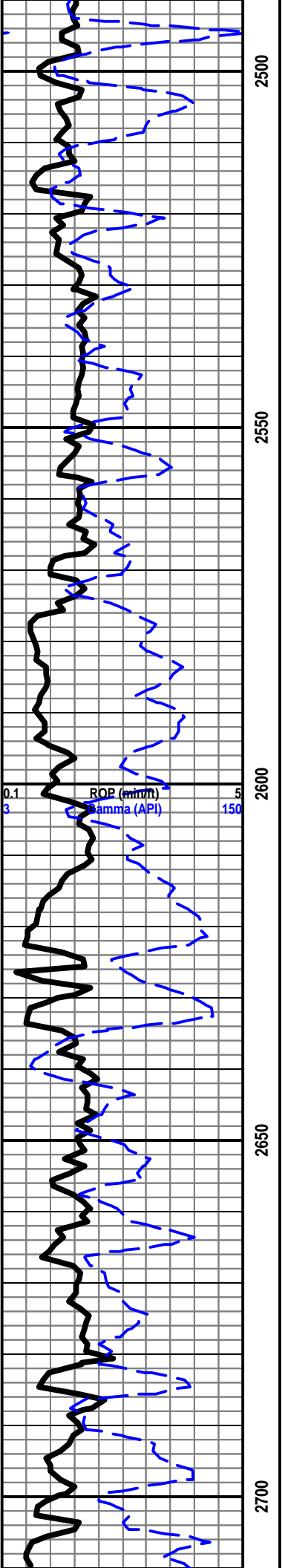
2250 2200 2150 2100 20

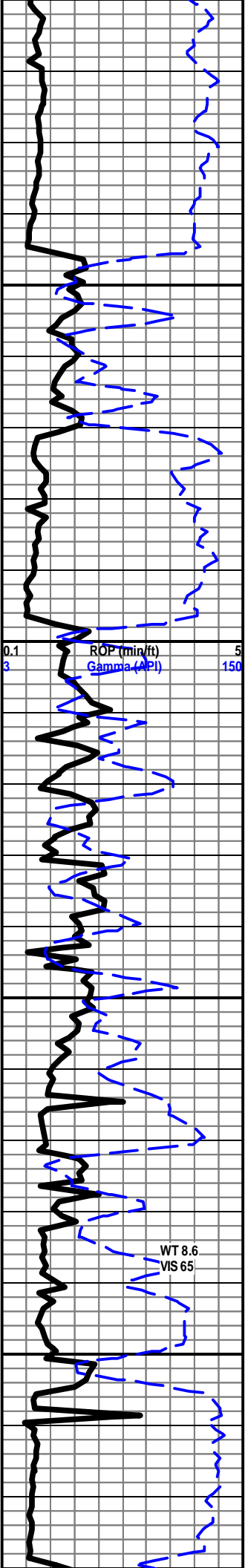
0.1 ROP (min/ft) 5
3 Gamma (API) 150



1 TG, C1-C5 10 100 1000







2750

2800

2850

2900

BRS 2745'-766'

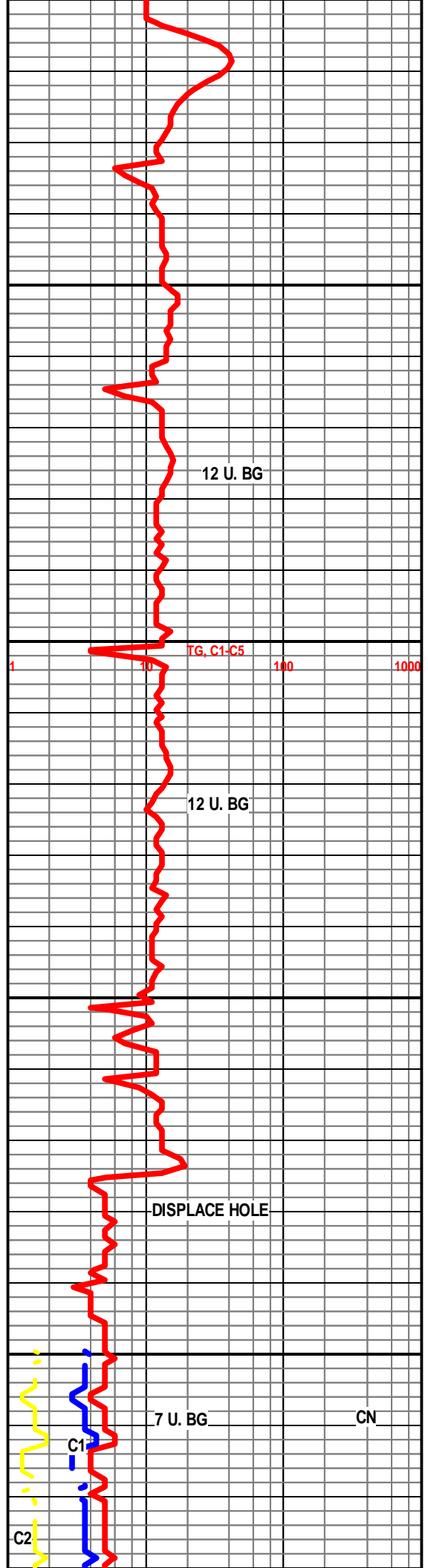
START 24 HR MANNED UNIT ON 1/12/2012

SH- LT TO MD GY, SFT GUMMY, SLI SLTY IP

LS- LT TN TN- HD DNS TO BRITT, MD-XLN TO SUCRO MTRX, NO FLO, NO VIS POR, NO VIS SHOW

SH- DK GY- V/ SFT GMMY TXT

HOWARD 2929'-950'



12 U. BG

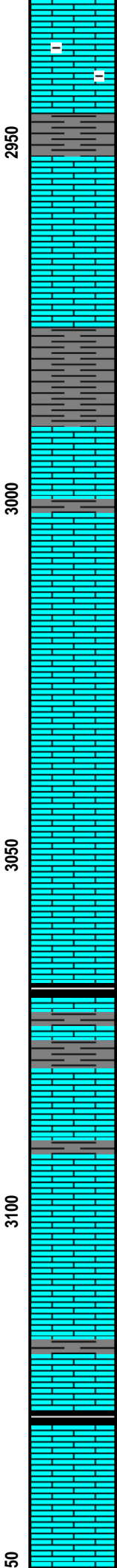
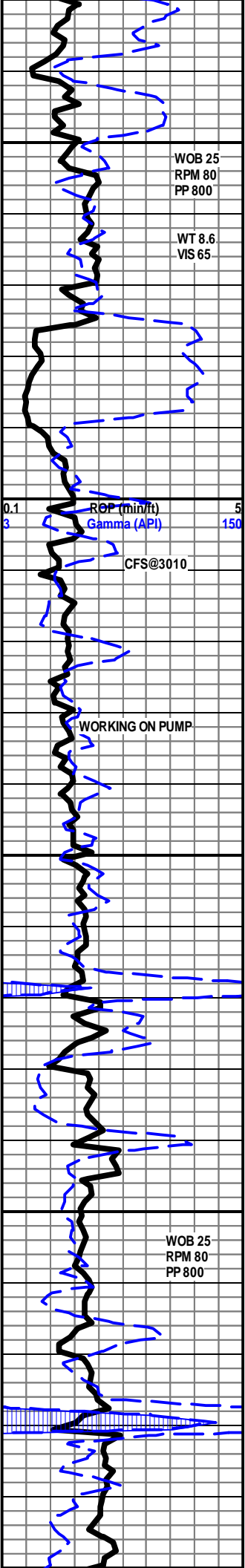
12 U. BG

DISPLACE HOLE

7 U. BG

CN

C1
C2



LS- OFF WHT TO LT TN- MD HD TO SFT IP, V/
CHLKY MTRX, TR DISS SH IP, NO FLO, NO VIS
POR, NO VIS SHOW

CN

WOB 25
RPM 80
PP 800

WT 8.6
VIS 65

LS- CRM LTN TN- HD DNS, F-V/F-XLN TO
S-CHLKY IP, LT YEL MIN FLO THRU, NO VIS
POR, NO VIS SHOW

CN

SH- LT TO MD GY- FRM IP TO V/ SFT SLTY TXT
IP

TOPEKA 2990' - 1011'

2990-2994' LS- LT TN TO DK TN, W/DK TN STN THRU, HD
DNS TO BRITT, V/ SUCRO MTRX, SLI TR IMB SH IP, W/ FNLY
DISS PYR IN 40%, BRT YEL GLD FLO THRU, PR TO FR VIS
MICRO-VUG POR, PR MICRO-PP POR IN 30%, V PR
MICRO-PP POR IN 50%, EXCEL INST FLSH CUT TO EXCEL
SLW STRM MLKYBL CUT, GD OIL ODOR, TN LCH ON DISH,
ABDT SM CUTTINGS IN TRAY W/ ABDT LIVE OIL IN TRAY

55 U. SHOW

LS- OFF WHT TO CRM, HD DNS, VFN-XLN, DUL
YEL FLO, NO VIS POR, NO VIS SHOW

CN

LS- LT TN TO TN GY MOTT, HD DNS, V/FN-XLN,
S-CHLKY IP, NO FLO, NO VIS POR, NO VIS
SHOW

CN

LS- TN TO GY MOTT IP, HD DNS TO BRTT IP,
NO FLO, NO VIS POR, NO SHOW

CN

SH- BLK, SFT CARB- V- CARB

35 U. BG

SH- LT GR TO GR, SFT TO GUMMY, GRNY IP

LE COMPTON 3091'-1112'

3100-3102 LS- LT TN TN DK TN DUE TO OIL
STN IN 80%, HD DNS SLI TR BRITT, V/ FN
SUCRO MTRX, TR IMBD CALC XLS IP, BRIT
YEL FLO IN 20-30%, DLL YEL FLO IN 70%,
V/PR TR PP POR IN 10%, FR OIL ODOR,
EXCEL FLSH CUT TO EXCEL SLO STRM MLKY
BLUE CUT, GD LCH ON DISH

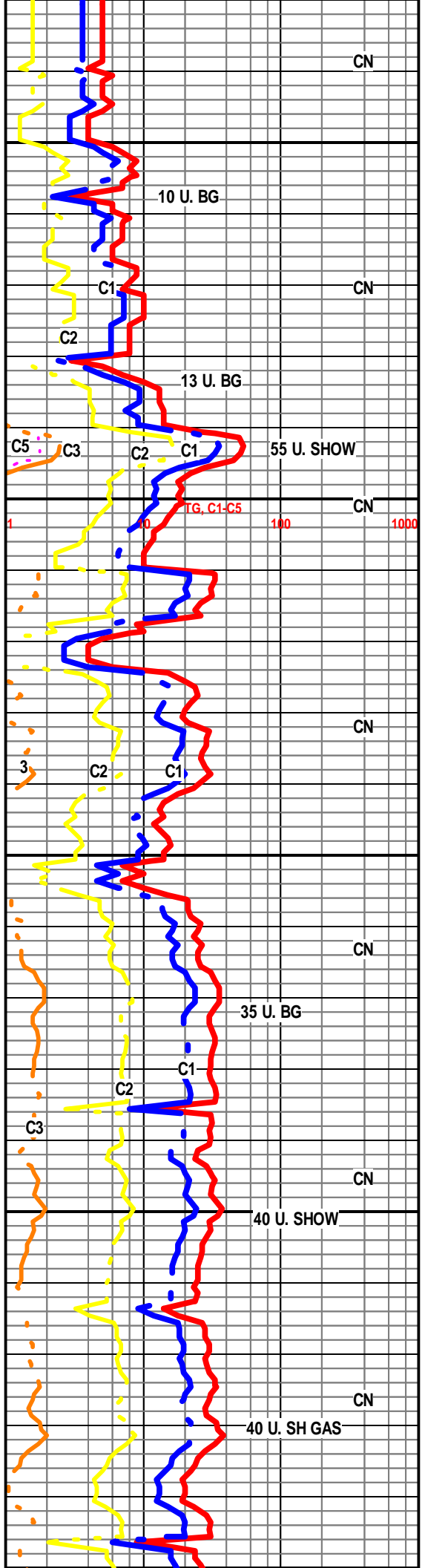
40 U. SHOW

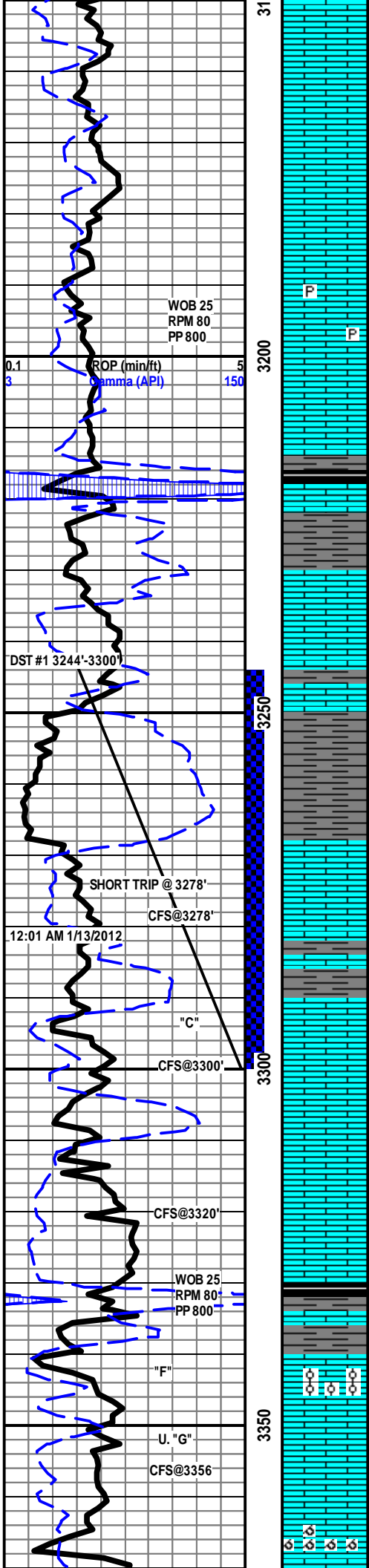
SH- BLK SFT CARB

40 U. SH GAS

LS- OFF TO CRM, HD DNS TO BRITT IP,
V/F-XLN TO SLI S-CHLKY IP, TR IMBD SH IP,
NO FLO, NO VIS POR, NO VIS SHOW

CN





LS- CRM LT GY, MOTT, HD DNS TO SFT IP, V/F-
CRYPTO-XLN TO SLI S-CHLKY IP, NO FLO, NO
VIS POR, NO VIS SHOW

LS- CRM LT GY TO GY- HD DNS TO SFT IP,
V/FN TO CRYPTO-XLN TO S-CHLKY IP, IMBD
DISS PYR IP, NO FLO, NO VIS POR, NO VIS
SHOW

HEEBNER 3216'-1237'

SH- BLK SFT CARB

SH- LT GRN TO GY- MOTT, V/ SFT GMMY

LS- WHT OFF WHT CRM, HD DNS, F-XLN
RE-XLN IP TO MD-XLN, TR IMB CALC-XLS, LT
YEL MIN FLO THRU, NO VIS POR, NO VIS
SHOW

DOUGLAS 3250' - 1271'

SH- RED GY GRN BLK, MOTT, FRM BLKY ,
SMTH TXT GRDNG TO V/ SFT GMMY IP

LANSING 3268' - 1289'

3268-3270' LS- CRM LT TN TN DUE TO STN IN
80% (4 RCK) HD BRITT, MD-XLN RE-XLN
MTRX, SMLL CALC XLS IMBD IP, BRIT YEL
GLD FLO IP, DLL YEL FLO IP, PR SCAT
INTER-XLN POR IP, FR FLSH CUT TO GD SLO
STRM CUT, GD OIL ODOR

LANSING "C" 3292'- 1313'

3292-3295' LS- LT TN TN DUE TO OIL STN IN
30%, HD DNS TO BRITT, MD-XLN S-SUCRO,
RE-XLN MTRX, FOSS FRGS SCAT THRU, SMLL
CALC XLS IMBD IP, BRIT YEL GLD FLO THRU,
FR TO TR GD INTER-FOSS POR IP, PR FLSH
CUT, FR TO GD SO STRM CUT THRU, NO
ODOR, NO STN ON DISH

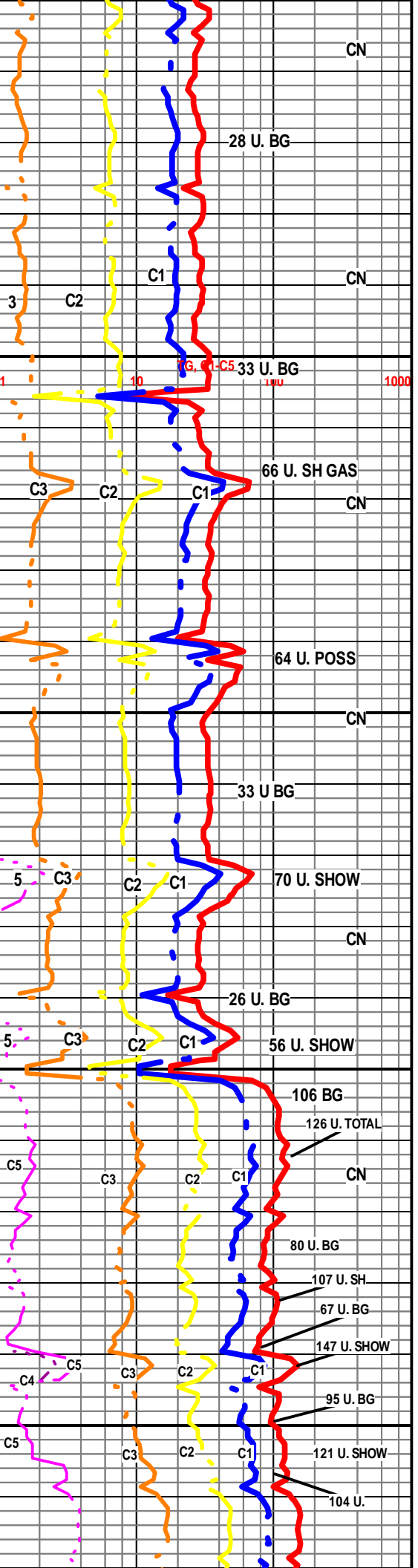
LS- OFF WHT TO LT GY TO TN, HD TO BRTT,
MD-XLN- RE XLN, SUCRO MTRX TO S-CHLKY
IP, CALC-XLS IP, DUL YEL MIN FLO IN 30%, NO
VIS POR, NO VIS SHOW

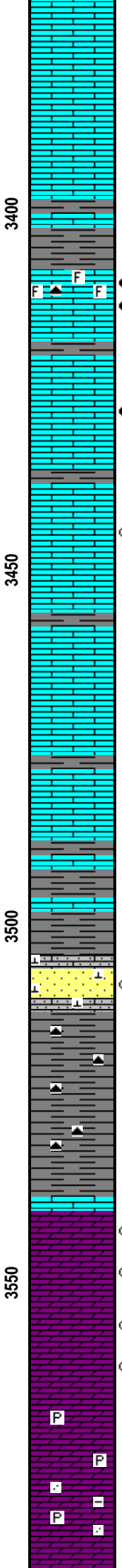
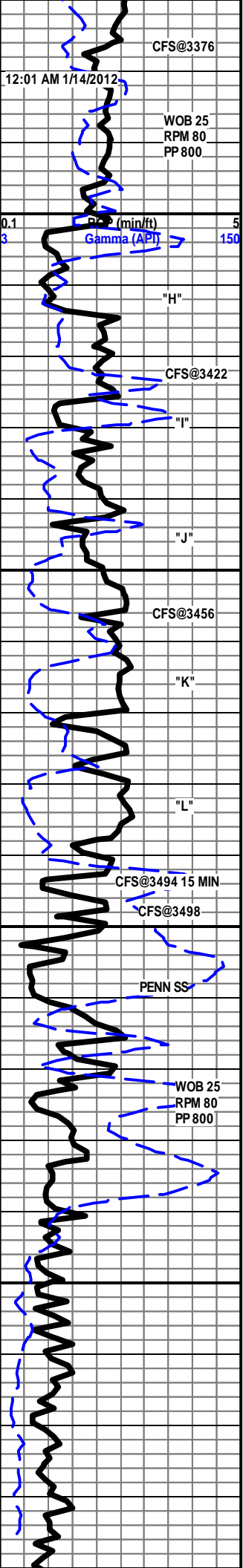
LANSING "F" 3339'-1360'

SH- BLK SFT CARB

3340-43 LS- LT TN DK TN DUE TO OIL STN IN 100%, HD
TO V/ V BRITT, MD-XLN RE-XLN MTRX, ABDT IMBD MD
OOL THRU, SMLL CALC XLS INTEROOL, GRDNG TO V/
LOOSE SUCRO MTRX IP, SUCRO RCK W/ OILSTN
FLOATING IN TRAY, BRIT YEL GLD FLO THRU, V/ GD VIS
INTEROOL POR IN 30%, GD VIS INTER-XLN POR IN 20%,
STRNG OIL ODOR, EXCEL INST FLSH , EXCEL SLO STRM
MLKY BLUE CUT THRU, V/LT TN LCH ON DISH

3352- 3356' LS- TN TO DK TN DUE TO OIL STN IN 70%, HD
DNS TO BRITT IP, MDF-XLN V/ RE-XLN MTRX, SLI TR CHLK
IP, V/ FOSS, TR IMBD SMLL OOL IP, DLL YEL GLDN FLO IN
70%, DLL YEL FLO IN 30%, SLI TR PR VIS INTER FOSS POR
IP TR OIL BRIG OUT OF 20% EXCEL FL SH CUT IN 100%





12:01 AM 1/14/2012

CFS@3376

WOB 25
RPM 80
PP 800

0.1
3

5
150

Gamma (API)

"H"

CFS@3422

"I"

"J"

CFS@3456

"K"

"L"

CFS@3494 15 MIN

CFS@3498

PENN SS

WOB 25
RPM 80
PP 800

3400

3450

3500

3550

3365'-3368' LS- OFF WHT TO CRM, DNS TO BRTT, MD-XLN TO RE-XLN MTRX,ABDT SFT WHT CHLK, V OOLMOLD, NO FLO, GD OOLCST POR, NO CUT

LS- OFF WHT TO CRM, HD DNS V/F-XLN TO SLI S-CHLKY IP, NO FLO, NO VIS POR, NO VIS SHOW

LANSING "H" 3408' - 1429'

3408- 3414' LS- DK TN TO DK BRN DUE TO OIL STN IN 80%, HD DNS IP TO V BRITT,MD-XLN V/RE-XLN MTRX TO SUCRO IP, V FOSS, TR IMBD SMLL OOL IP,TR LT GY CHRT, BRIT YEL GLD FLO IN 80%, DLL YEL GLD FLO IN 20%, GD VIS INTER-XLN POR TO GD VIS INTER FOSS POR IN 30-40%, FR VIS INTER-XLN POR IN 20%, GD OIL ODOR, EXCEL INST FLSH CUT IN 80% TO EXCEL SLO STRM MLKY BLUE CUT IN 80%, BRN LCH ON DISH

3426-3430' LS- LT TN TO TN W/ TN OIL STN IN 80% OF THE ROCK, HD DNS IP, V BRTT IP, F-XLN TO MD-XLN, V-R-XLN MTRX,SLI TR CHLK, FOSS IP,ABDT SM CALC-XLS IN VUGS, BRT YEL GLD FLO IN 90%, V DUL YEL FLO IN 10%, PR TO FR VIS VUG-POR IN 40%, TR GD MICRO PP POR IP, STRNG OIL ODOR, EXCEL INST FLSH CUT IN 80%, EXCEL SLW STRM CUT IN 80%, LCH TN STN ON DISH

3443'-3444' LS- OFF WHT TO CRM, BLCK DUE TO DOS SCATT, HD DNS, V-FN CRYPTO-XLN, SLI TR S-CHLKY, BRT YEL GLD FLO SCAT ON ONE FACES IN 50%, DUL YEL FLO IN 20%, NO VIS POR, LT FLSH CUT TO FR SLW STRM CUT IN 50%, LT OIL ODOR, NO STN ON DSH

3470- LS OFF WHT TO CRM , ABDT FRM CHLK THRU, NO FLO, NO VIS POR, NO VIS SHOW

SH- GY DK GY- FRM BLKY TO HD SPLNTY

LS- OFF WHT TO CRM HD DNS F - V/FN-XLN, SLI TR WHT CHLK, NO FLO, NO VIS POR, NO VIS SHOW

SH - BRN RED- FRM BLKY SMTH TXT TO V/ SFT GMMY

BKC 3498' - 1519'

SS- FRSTY TO LT TN 9 DUE TO STN IN 30%, HD TT IP TO TR V/ FRI, F- MD CLR TO FRSTY QURTZ GRNS, ANG TO S-ANG FR SRT, V/ CALC CMNT IN 80% TO SIL CMNT IN 20%,DLL YEL GLD FLO IN 80% BRIT YEL GLD FLO IN 20%, NO VIS POR IN 80% TO PR VIS INTER-GRN POR IN 10-15%, WK FLSH CUT IN 20%, FR TO GD SLO STRM CUT IN 40%,

SH- RED DK RED- FRM BLKY TO V/ SFT GMMY , TN BRN MOTT CHRT

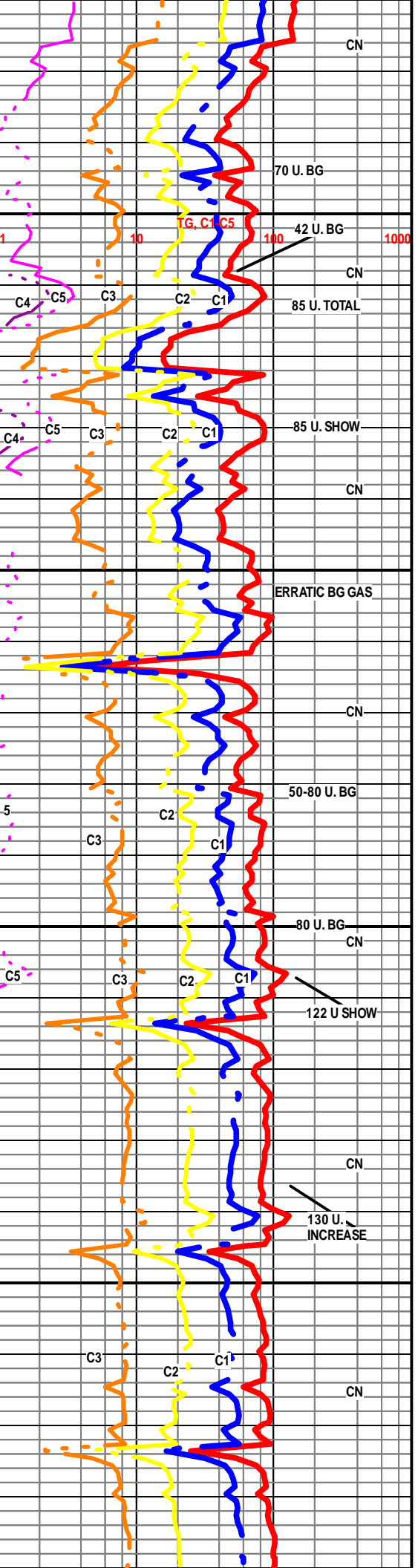
LS- OFF WHT TO WHT, ABDT SFT WHT GMMYCHLK, NO FLO, NO VIS POR, NO VIS SHOW

ARBUCKLE 3539' - 1560'

3539' -3550' DOLO- OFF WHT WHT LT TN DUE TO OIL STN, DOS IP, HD DNS IP TO BRITT, V/ F-XLN TO CRS SUCRO MTRX, ABDT IMBD SCAT ANG DOLO GRNS THRU, HVY TR SCAT IMBD SFT WHT CHLK, BRIT YEL GLD FLO SCAT IN 30%, DLL YEL FLO INN 70%, PR TO FR VIS SCAT INTER-XLN POR,IN 30%,FR FLSH CUT TO FR SLO STRM CUT IN 30-40%, NO ODOR. NO LCH ON DISH

3550-3563' DOLO- OFF WH TWHT TR LT TN STN IP, HD DNS TO V/ BRITT, F-XLN TO SUCRO MTRX,ABDT IMBD FN TO MD ANG DOLO GRNS THRU, SFT WHT CHLK IMBD IN 50%, DLL YEL FLO THRU, SLI TR BRIT YEL GLD FLO IN 10%, PR TO FR VIS INTER-XLN POR, SCAT FR VUG POR IP, V/ PR SLO STRM CUT , NO FLSH CUT, NO ODOR

3565-3615' DOLO- OFF WHT TO WHT- HD TO BRITT, MD-XLN TO SUCRO MTRX, ABDT IMBD SMLL TO MD ANG DOLO GRNS SCAT THRU, TR WHT CHLK IMBD, DISS PYR IP, AND PYR CI STRS IP, SLI TR IMBD S-RND SMLL QURTZ



CN

70 U. BG

42 U. BG

1000

CN

85 U. TOTAL

CN

85 U. SHOW

CN

ERRATIC BG GAS

CN

50-80 U. BG

80 U. BG

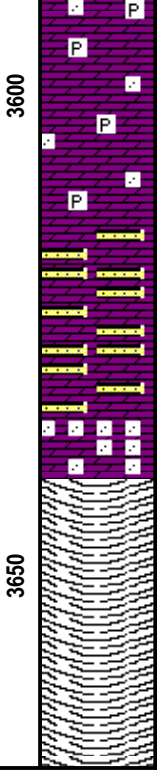
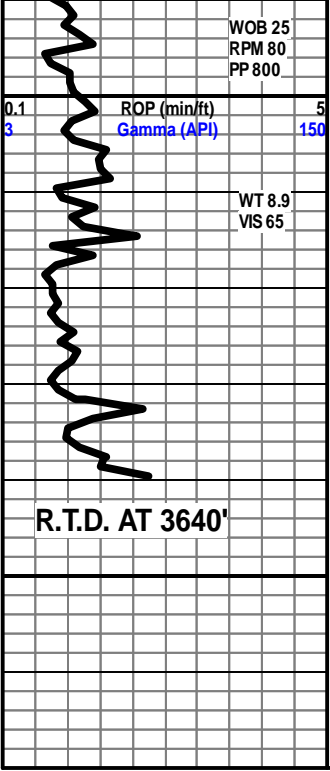
CN

122 U SHOW

CN

130 U. INCREASE

CN



GRNS IP, SLI TR GRN CLAY IP, DLL YEL MIN FLO THRU, FR VIS INTER-XLN POR SCAT PR VUG POR IP, NO VIS CUT OR SHOW

3615-3632- DOLO-OFF WHT WHT- HD DNS TO BRITT, F-XLN TO SUCRO MTRX SCAT IMBD SMLL DOLO GRNS IP TO ABDT IMBD SMLL TO MD ANG S-ANG TO S-RND CLR QURTZ GRNS THRU, HVY TR LMNTD BEDS QURTZ, TR FREE SMLL TO MD S-RND TO WELL ROUNDED QURTZ GRNS, NO FLO, PR TO FR VIS INTER-XLN POR, NO VIS SHOW OR CUT

3632-3640-DOLO-OFF WHT WHT- HD DNS TO BRITT, F-XLN TO SUCRO MTRX SCAT IMBD SMLL DOLO GRNS IP TO ABDT IMBD SMLL TO MD ANG S-ANG TO S-RND CLR QURTZ GRNS THRU, ABDT FREE SMLL TO MD TO LRG S-RND TO WELL ROUNDED QURTZ GRNS, NO FLO, PR TO FR VIS INTER-XLN POR, NO VIS SHOW OR CUT

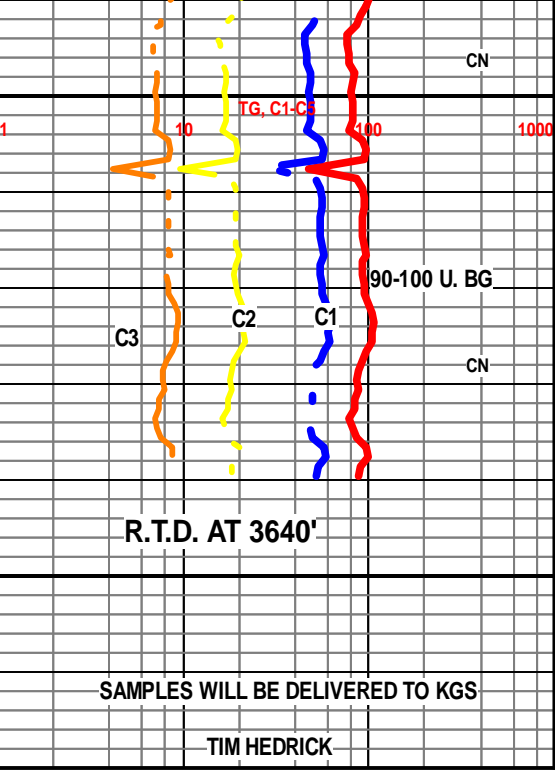
R.T.D. @ 2:48 PM 1/14/2012

CFS 1 HR

CTCH 2 HRS

TRIP OUT F/ LOGS 5:00 PM

WEATHERFORD/LIBERAL



SAMPLES WILL BE DELIVERED TO KGS

TIM HEDRICK

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

May 02, 2012

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

Re: ACO1
API 15-165-21954-00-00
ELSIE 2-13
NE/4 Sec.13-16S-17W
Rush 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