



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1187723
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: _____

1187723

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: _____ _____
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Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	JONAS FAMILY TRUST 1-10
Doc ID	1187723

All Electric Logs Run

INDUCTION
MICRO
POROSITY
SONIC
SPECTRAL



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: 10/19/2013
 Invoice # 7457

P.O.#:
 Due Date: 11/18/2013
 Division: Russell

Invoice

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

RECEIVED

OCT 28 2013

SAMUEL GARY JR.
 & ASSOCIATES, INC.

Reference:
 Jonas Family Trust 1-10

Description of Work:
 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		\$ 991.39	No				
Common-Class A	200	\$ 3,257.14	Yes				
Bulk Truck Mat-Material Service Charge	211	\$ 458.17	No				
Calcium Chloride	7	\$ 362.22	Yes				
8 5/8" Basket	1	\$ 343.09	Yes				
Pump Truck Mileage-Job to Nearest Camp	18	\$ 195.04	No				
8 5/8" Centralizer	2	\$ 138.97	Yes				
8 5/8" Top Rubber Plug	1	\$ 115.09	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	18	\$ 114.13	No				
Premium Gel (Bentonite)	4	\$ 70.70	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 6,045.93
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (906.89)

SubTotal for Taxable Items:	\$ 3,644.12
SubTotal for Non-Taxable Items:	\$ 1,494.92
Total:	\$ 5,139.04
Tax:	\$ 260.55

7.15% Barton County Sales Tax

Thank You For Your Business!

Amount Due: \$ 5,399.59
Applied Payments:
Balance Due: \$ 5,399.59

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 7457

Date	10-19-13	Sec.	10	Twp.	17	Range	13	County	Barton	State	KS	On Location		Finish	2:30 a.m.
Location								Susank S 1600 IE 123 Pato							
Lease	Jones Family Trust			Well No. 1-10				Owner							
Contractor	Discovery #2			To Quality Oilwell Cementing, Inc.											
Type Job	Surface			You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.											
Hole Size	12 1/4			T.D. 435				Charge To				Sam Gray			
Csg.	8 5/8			Depth 435				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.	20'			Shoe Joint				Cement Amount Ordered				200 com 31-CC 2/6EL			
Meas Line				Displace 26 1/2 BC											
EQUIPMENT								Common 200							
Pumptrk	17	No.	Cementer	Cody				Poz. Mix							
			Helper	Cody											
Bulktrk		No.	Driver	Cody				Gel. 4							
			Driver												
Bulktrk	9	No.	Driver	Heath				Calcium 7							
			Driver												
JOB SERVICES & REMARKS								Hulls							
Remarks:								Salt							
Rat Hole								Flowseal							
Mouse Hole								Kol-Seal							
Centralizers								Mud CLR 48							
Baskets								CFL-117 or CD110 CAF 38							
D/V or Port Collar								Sand							
8 5/8 on bottom - Est. Circulation.								Handling 211							
Mix 200SK & Displace								Mileage							
Cement Circulated 1								FLOAT EQUIPMENT							
								Guide Shoe 8 5/8							
								Centralizer 2							
								Baskets 1							
								AFU inserts Plug							
								Float Shoe							
								Latch Down							
								Pumptrk Charge Old Surface							
								Mileage 18							
								Tax							
								Discount							
								Total Charge							
X Signature								[Signature]							



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: 10/24/2013
 Invoice # 7552

P.O.#:
 Due Date: 11/23/2013
 Division: Russell

Invoice

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

RECEIVED

NOV 04 2013

SAMUEL GARY JR.
 & ASSOCIATES, INC.

DRLG COMP W/O LOE GG

Account	8300.238
Well Prospect	
Deck	
AFE	
Approval	AB
Description	

Reference:
 JONAS FAMILY TRUST 1-10

Description of Work:
 PROD LONG STRING

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 963.85	No	Salt (Fine)	19	\$279.98	Yes
Common-Class A	225	\$ 3,562.50	Yes	Latch Down Plug & Baffle, 5 1/2"	1	\$236.44	Yes
Gilsonite	1057	\$ 1,673.58	Yes	Pump Truck Mileage-Job to Nearest Camp	18	\$189.62	No
CFL 117	176	\$ 1,144.39	Yes	Flo Seal	56	\$118.22	Yes
5 1/2" Basket	3	\$ 1,089.33	Yes	Bulk Truck Mileage-Job to Nearest Bulk Plant	18	\$110.96	No
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: \$ 12,034.92

Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,805.24)

SubTotal for Taxable Items: \$ 8,699.13

SubTotal for Non-Taxable Items: \$ 1,530.55

Total: \$ 10,229.68

Tax: \$ 621.99

7.15% Barton County Sales Tax

Thank You For Your Business!

Amount Due: \$ 10,851.67

Applied Payments:

Balance Due: \$ 10,851.67

Past Due Invoices are subject to a service charge (annual rate of 24%)

This does not include any applicable taxes unless it is listed.

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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 7552

Date	10-24-13	Sec.	10	Twp.	17	Range	13	County	Barton	State	Ks	On Location		Finish	11:15 pm
Lease								Location		Susank, Ks - 35 to 160th Rd, IE, 1/2 S					

Contractor	Discovery	#2	Well No.	1-10	Owner	E/Ints
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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.				
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Hole Size	7 7/8"	T.D.	3470'	Charge To	Samuel Gary Jr. Associates
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Csg.	15.50" New 5 1/2"	Depth	3466.50'	Street	
------	-------------------	-------	----------	--------	--

Tbg. Size		Depth		City	State
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Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
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Cement Left in Csg.	42.50	Shoe Joint	42.50	Cement Amount Ordered	225 5x 9 Pro-C 10% Salt 5x 6 1/2 in HE 74# Flt 3% CD-110 3% CFL-117 25% CAF 38
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Meas Line	Displace	81 1/2 BLS	20 BLS KCL	500 gal mud Clear 48
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EQUIPMENT

Pumptrk	16	No.	Cement Helper	Billy	Common	225
---------	----	-----	---------------	-------	--------	-----

Bulktrk	14	No.	Driver	Eason	Poz-Mix	CD110 117#
---------	----	-----	--------	-------	---------	------------

Bulktrk	P.M.	No.	Driver	RICK	Gel.	
---------	------	-----	--------	------	------	--

JOB SERVICES & REMARKS

Remarks:	pipe on bottom, break Circulation	Hulls	KCL - 2 gal
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Rat Hole	pump 500 gal Mud Clear 48	Salt	19
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Mouse Hole	plug Rathole w/ 30sx, plug mousehole w/ 15 sx Hook to 5 1/2"	Flowseal	56#
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Centralizers	mousehole w/ 15 sx Hook to 5 1/2"	Kol-Seal	1057#
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Baskets	Casing + Mix 180# Cement	Mud CLR 48	500 gal
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D/V or Port Collar	shut down wash pump + lines. Released plug + Displaced with 81 1/2 BLS of water.	CFL-117 or CD110 CAF 38	- 50#
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	Released + held.	Sand	176
--	------------------	------	-----

	Lift pressure 200#	Handling	254
--	--------------------	----------	-----

	Land plug to 1700#	Mileage	
--	--------------------	---------	--

FLOAT EQUIPMENT

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

Centralizer	8 turbo's
-------------	-----------

Baskets	30 weatherford
---------	----------------

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

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

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

	1- Rotating head Assy
--	-----------------------

Pumptrk Charge	prod hour string
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Mileage	18
---------	----

Signature		Tax	
		Discount	
		Total Charge	



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

10-17-13, Barton, KS

1515 Wynkoop, STE 700
Denver CO 80202

Jonas Family T #1-10

ATTN: Cayton Camozzi

Job Ticket: 55307

DST#: 1

Test Start: 2013.10.22 @ 09:45:00

GENERAL INFORMATION:

Formation: **KC "D-F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:53:30

Time Test Ended: 18:05:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Brett Dickinson

Unit No: 59

Interval: 3162.00 ft (KB) To 3194.00 ft (KB) (TVD)

Reference Elevations: 2006.00 ft (KB)

Total Depth: 3194.00 ft (KB) (TVD)

1998.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 8.00 ft

Serial #: 8319 Outside

Press @ RunDepth: 54.69 psig @ 3163.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.22

End Date:

2013.10.22

Last Calib.:

2013.10.22

Start Time: 09:45:05

End Time:

18:04:59

Time On Btm:

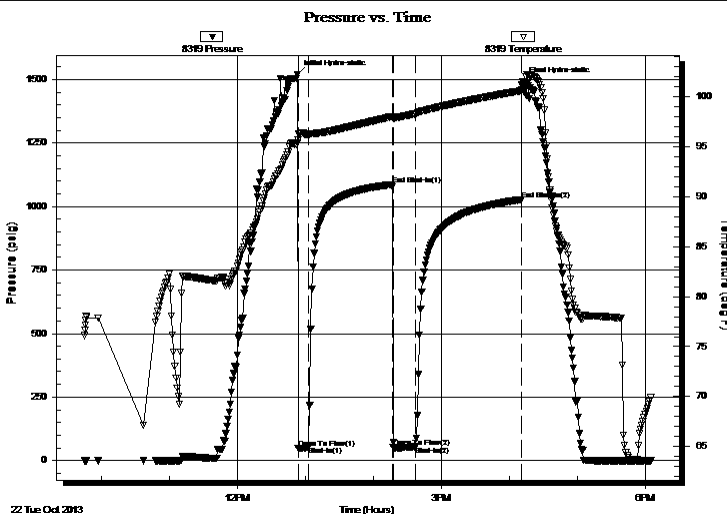
2013.10.22 @ 12:52:45

Time Off Btm:

2013.10.22 @ 16:11:30

TEST COMMENT: 10min-IF-1/4in blow
75min-IS-No blow
20min-FF-3/4in blow
90min-FSI-No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1520.35	95.30	Initial Hydro-static
1	48.70	95.66	Open To Flow (1)
10	54.44	96.16	Shut-In(1)
84	1086.69	97.97	End Shut-In(1)
85	51.20	97.75	Open To Flow (2)
104	54.69	98.25	Shut-In(2)
198	1027.57	100.55	End Shut-In(2)
199	1491.21	100.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Mud	0.57
5.00	Water	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates, Inc.

10-17-13, Barton, KS

1515 Wynkoop, STE 700
Denver CO 80202

Jonas Family T #1-10

Job Ticket: 55307

DST#: 1

ATTN: Cayton Camozzi

Test Start: 2013.10.22 @ 09:45:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 8.00 lb/gal

Cushion Length:

ft

Water Salinity:

50000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	Mud	0.568
5.00	Water	0.070

Total Length: 65.00 ft Total Volume: 0.638 bbl

Num Fluid Samples: 0

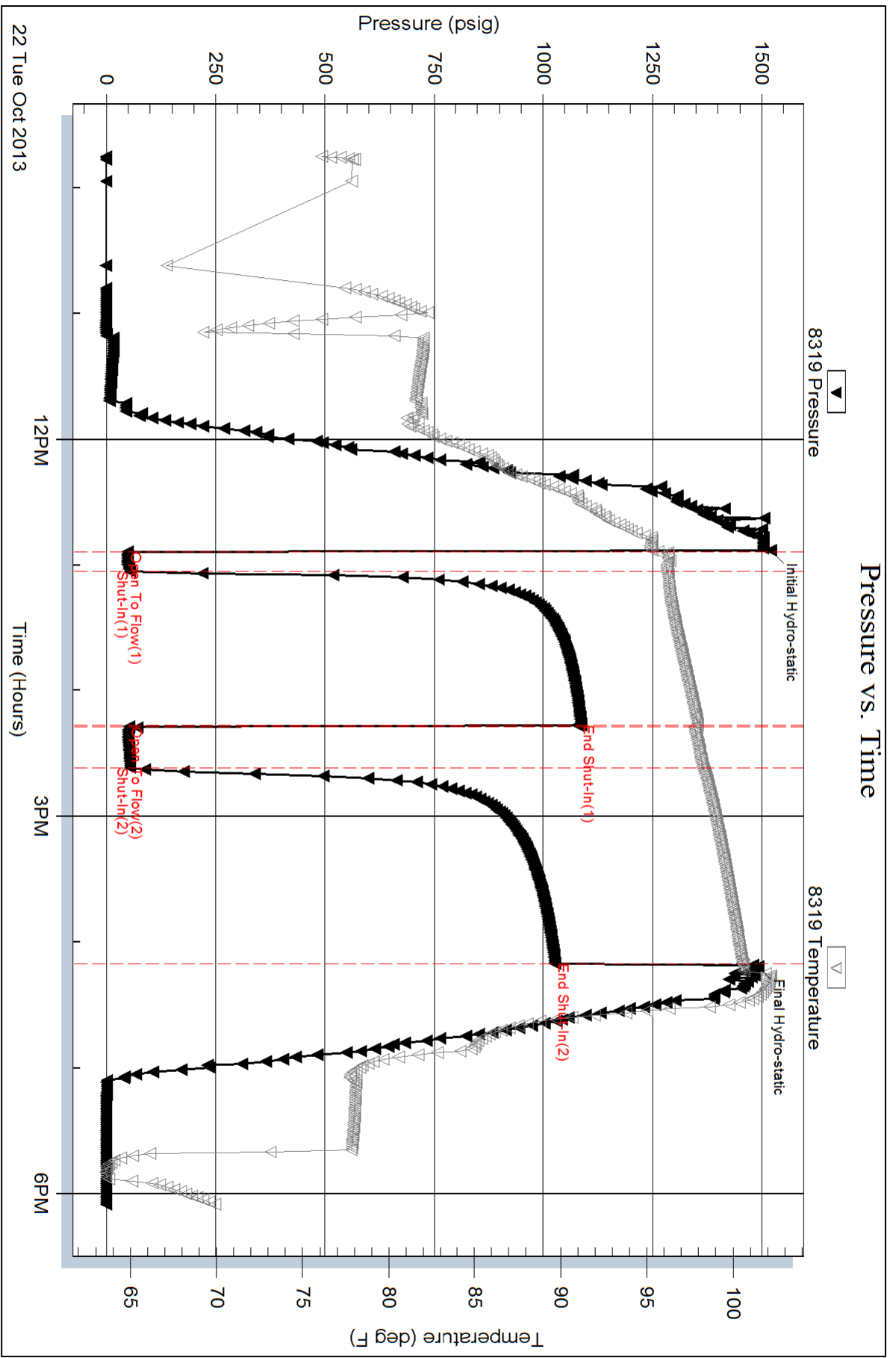
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Data 2000mlW 250ml M 50psi RW.18@60



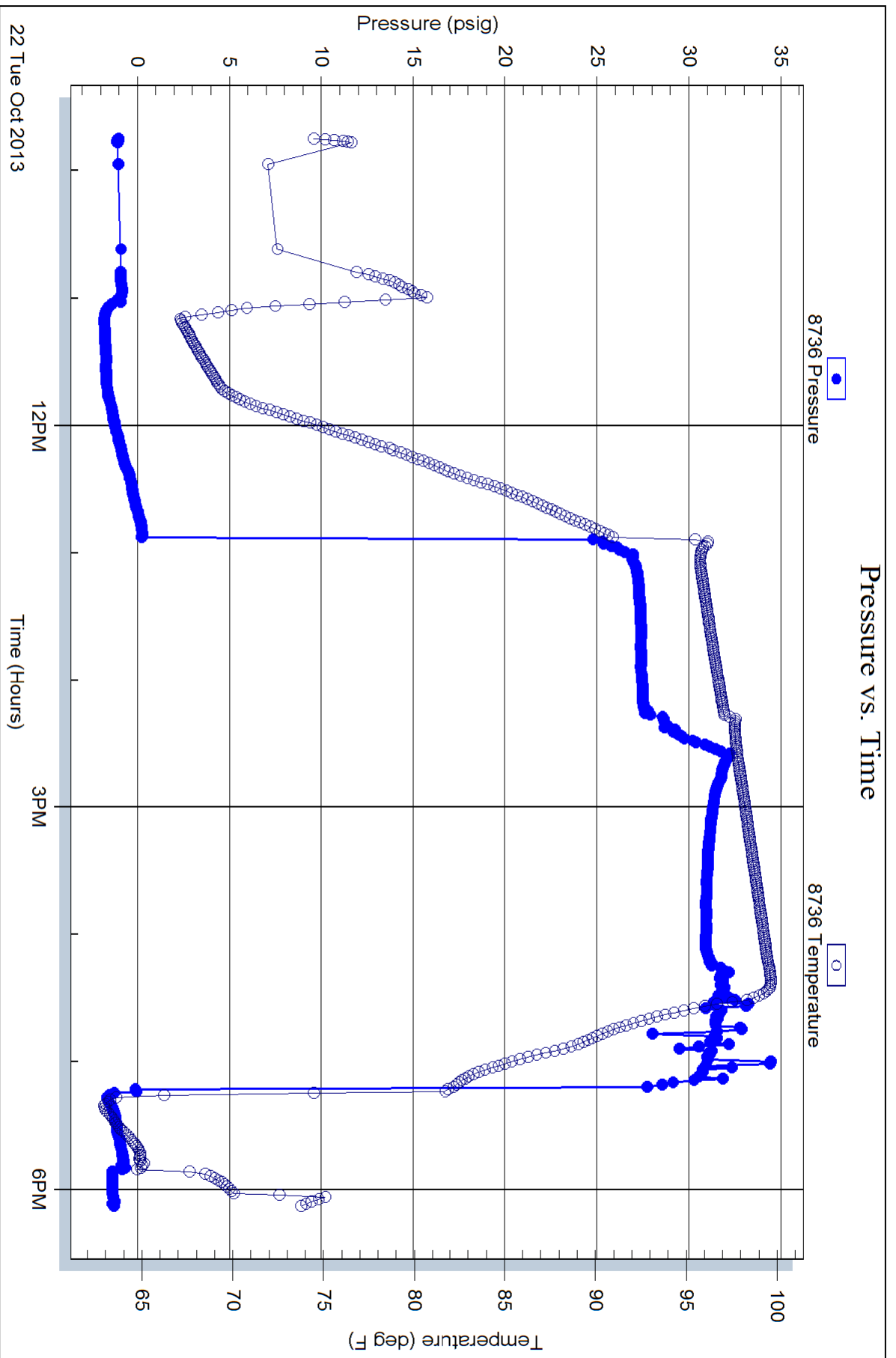
Serial #: 8736

Fluid

Samuel Gary Jr. & Associates, Inc.

Jonas Family T#1-10

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 55307

Printed: 2013.10.23 @ 11:45:23



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

Jonas Family Trust #1-10

1515 Wynkoop, STE 700
Denver CO 80202

10-17s-13w Barton, KS

ATTN: Cayton Camozzi

Job Ticket: 55308

DST#: 2

Test Start: 2013.10.23 @ 11:55:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:27:00

Time Test Ended: 20:53:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

Interval: 3345.00 ft (KB) To 3367.00 ft (KB) (TVD)

Reference Elevations: 2006.00 ft (KB)

Total Depth: 3367.00 ft (KB) (TVD)

1998.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8319 Outside

Press @ Run Depth: 308.25 psig @ 3346.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.23 End Date: 2013.10.23

Last Calib.: 2013.10.23

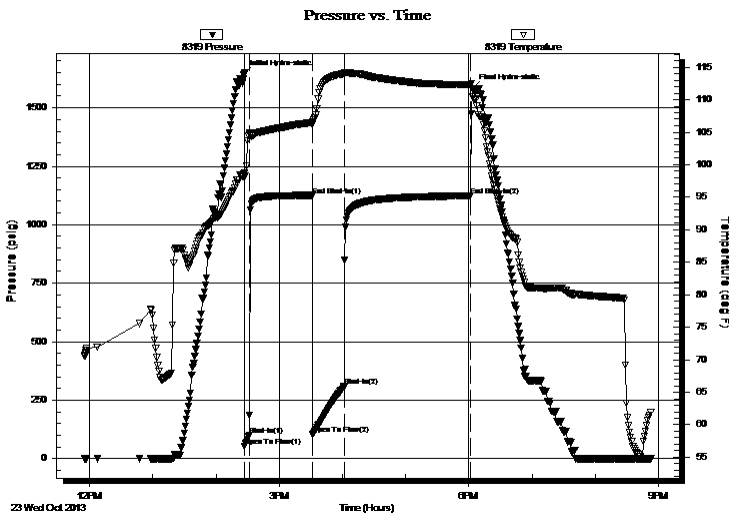
Start Time: 11:55:05 End Time: 20:53:30

Time On Btm: 2013.10.23 @ 14:26:15

Time Off Btm: 2013.10.23 @ 18:03:30

TEST COMMENT: 5min IF-BOB in 3 1/2 min
60min ISI-No blow
30min FF-BOB in 3 1/2 min
120min FSI-No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1641.95	98.51	Initial Hydro-static
1	51.24	98.30	Open To Flow (1)
6	98.77	104.81	Shut-In(1)
65	1125.79	106.51	End Shut-In(1)
66	102.48	106.12	Open To Flow (2)
96	308.25	113.99	Shut-In(2)
216	1123.27	112.28	End Shut-In(2)
218	1582.95	110.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
150.00	VSOCW 5%O 95%W	1.83
490.00	GSWCO 10%G 60%O 30%W	6.87
65.00	GMCO 10%G 50%O 40%M	0.91

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates, Inc.

Jonas Family Trust #1-10

1515 Wynkoop, STE 700
Denver CO 80202

10-17s-13w Barton, KS

Job Ticket: 55308

DST#: 2

ATTN: Cayton Camozzi

Test Start: 2013.10.23 @ 11:55:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 8.00 lb/gal

Cushion Length:

ft

Water Salinity:

23000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
150.00	VSOCW 5%O 95%W	1.831
490.00	GSWCO 10%G 60%O 30%W	6.873
65.00	GMCO 10%G 50%O 40%M	0.912

Total Length: 705.00 ft Total Volume: 9.616 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

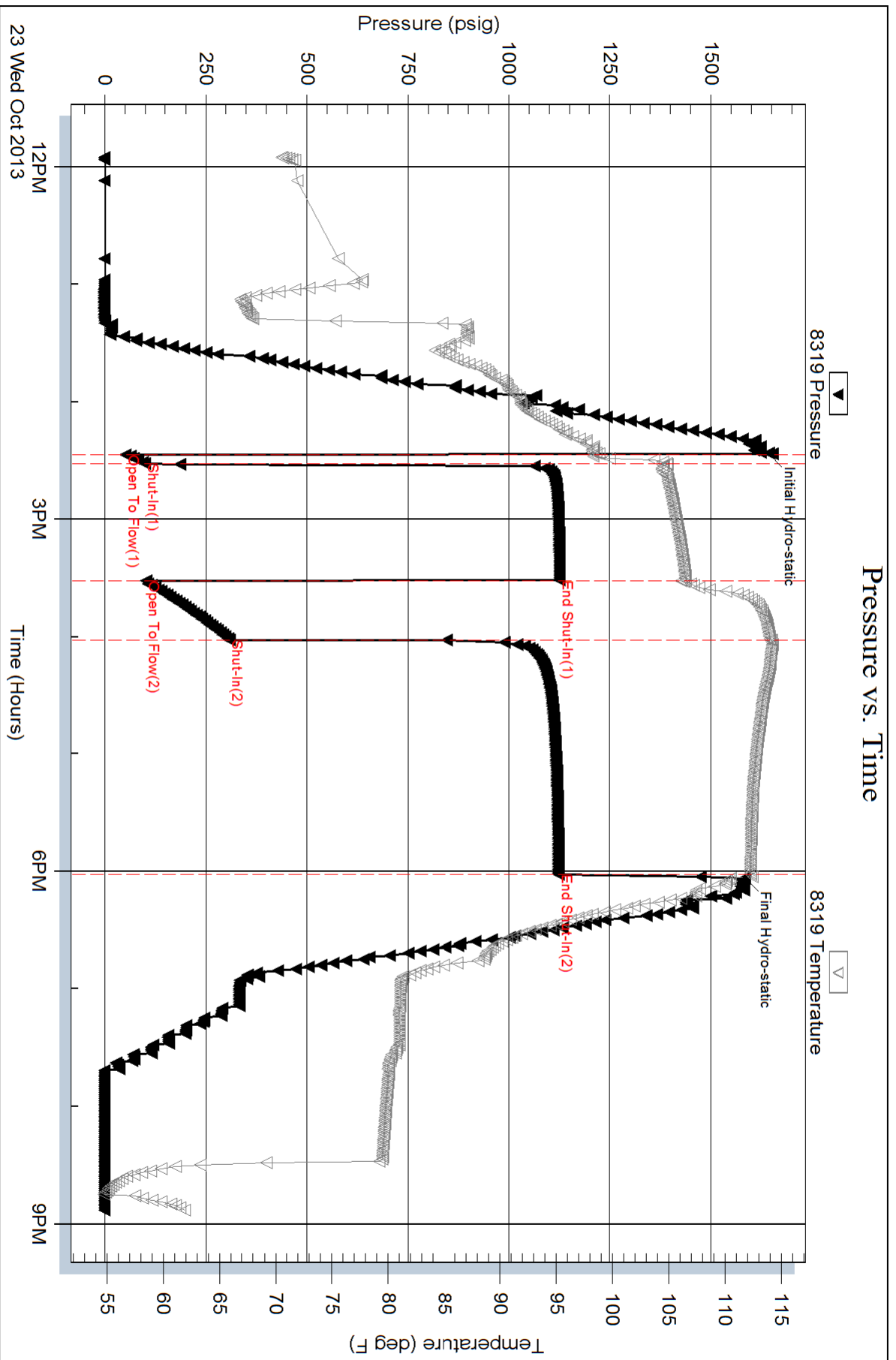
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Data 1500mlGas 2000mlOil 500ml Water 125PSI RW.35@60

Pressure vs. Time



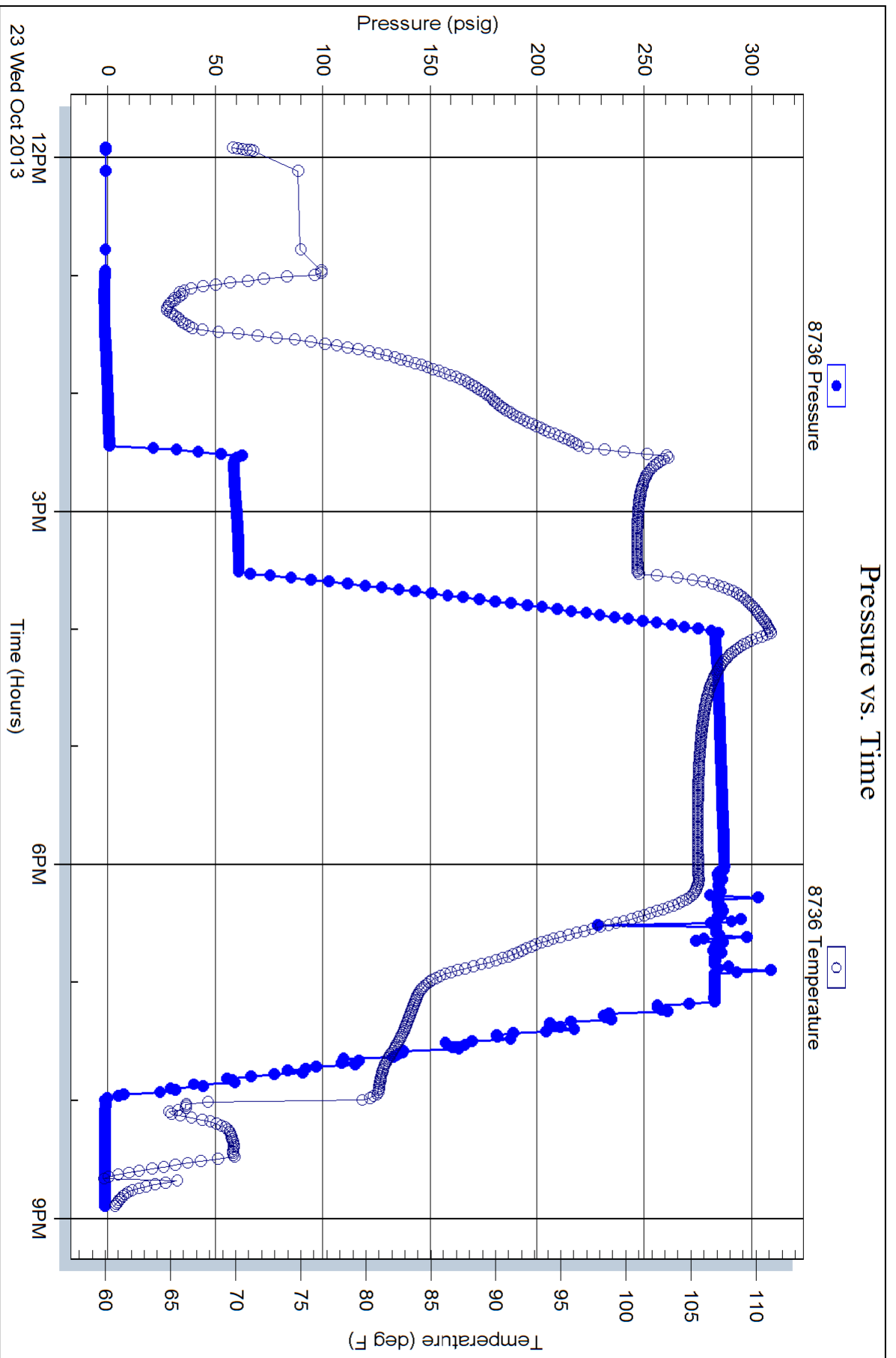
Serial #: 8736

Fluid

Samuel Gary Jr. & Associates, Inc.

10-17s-13w Barton, KS

DST Test Number: 2





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

Well Name: Jonas Family Trust 1-10
 Location: Sec. 10-17S-13W, Barton County, Kansas
 License Number: 15-009-2598
 Spud Date: OCT. 18, 2013
 Surface Coordinates: 1830' FSL & 1560' FWL
 Region: Wildcat
 Drilling Completed: OCT. 24, 2013

Bottom Hole Coordinates:
 Ground Elevation (ft): 1894' K.B. Elevation (ft): 1902'
 Logged Interval (ft): 1800' To: 3470' Total Depth (ft): 3470'
 Formation: Lansing, Arbuckle
 Type of Drilling Fluid: Natural Chemical

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OPERATOR

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 Hooker, Okla 73945
 1-580-652-3924
 8918 5Th St
 Great Bend, Ks. 67530
 1-888-543-8378



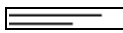
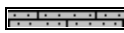
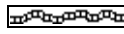



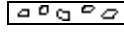



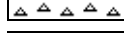




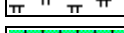

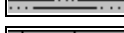



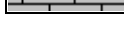

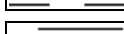




DST #1

3162' TO 3194' 10 75 20 90
 IF-.25 IN BLO / ISI- NB / FF-.75 IN BLO / FSI-NB
 IH-1520, FH-1491 / IF-49 TO 54, FF-51 TO 55 / ISI- 1087, FSI-1028
 RECOVERED- 65' TF, 60' MUD, 5' WATER, BHT 101 / .18RW@60 DEGREE. 50,000 CHL / PITCHL 5,200
 SAMPLER- 250ML MUD, 2000 ML WATER, 50 PSI, 4000 ML

DST #2

3345' TO 3367' 5 60 30 120
 IF- BOB 3.5 MIN / ISI- NB / FF- BOB 3.5 MIN / FSI-NB
 IH- 1641, FH-1583 / IF-51 TO 99, FF-102 TO 308 / ISI- 1126, FSI-1123
 RECOVERED
 205' TF, 65' GMCO, 10%G, 50% O., / 490' GSWCO, 10G., 60%O., 40% M., / 150' VSOCW, 5% O., 95%W. BHT- 112
 DEG. / .35 RW @60DEG = 23,000 CHL / PIT CHL-5200
 SAMPLER-1500 ML GAS, 2000ML OIL, 500 ML W. 125 PSI, 4000 TOTAL ML

ROCK TYPES

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

ACCESSORIES

MINERAL

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

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

FOSSIL

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

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

STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg
- Carbsh

- Clystn
- Dol
- Grysh
- Gryslt
- Lms
- Sandyms
- Sh
- Sltstn

TEXTURE

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

OTHER SYMBOLS

POROSITY TYPE

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

SORTING

- Well
- Moderate
- Poor

ROUNDING

- Rounded
- Subrnd
- Subang

- Angular

OIL SHOWS

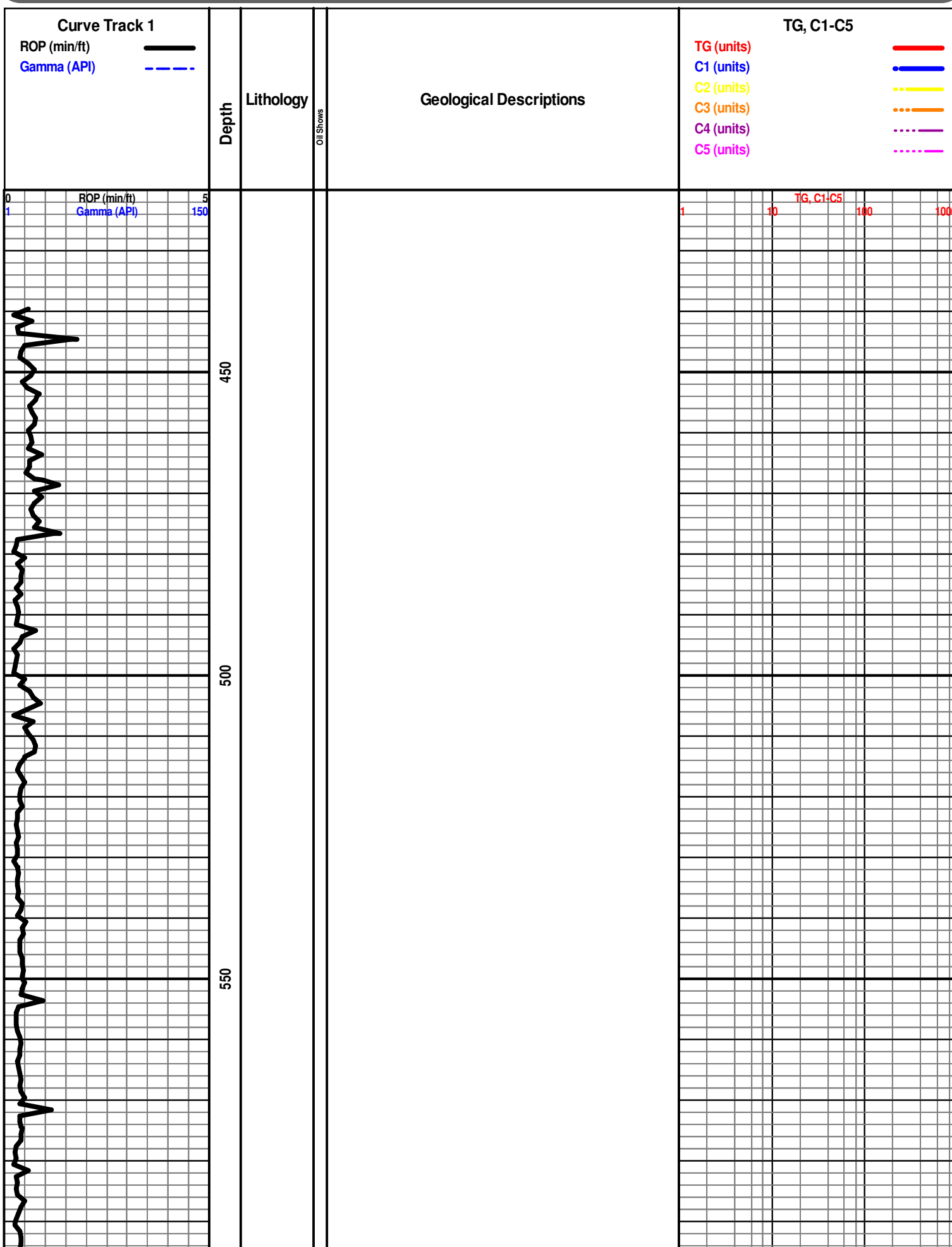
- Even
- Spotted
- Ques
- Dead
- Gas show

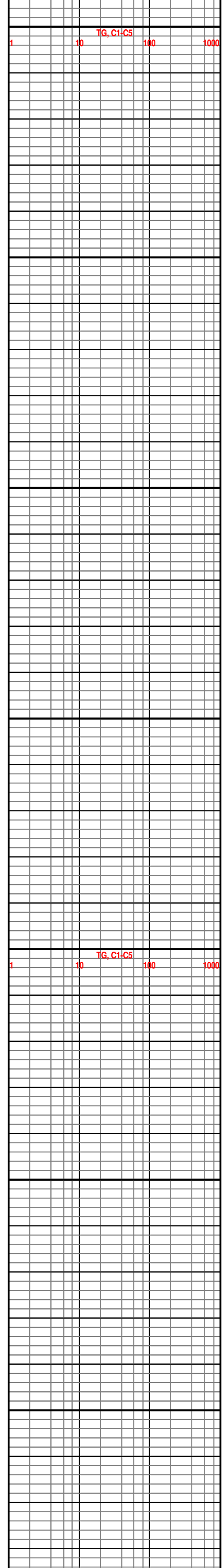
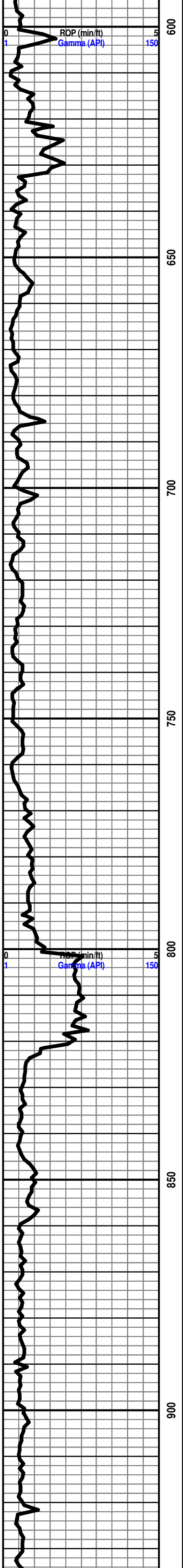
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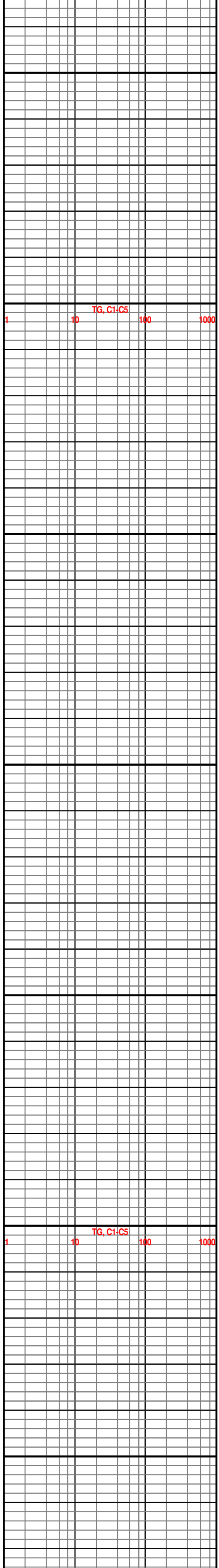
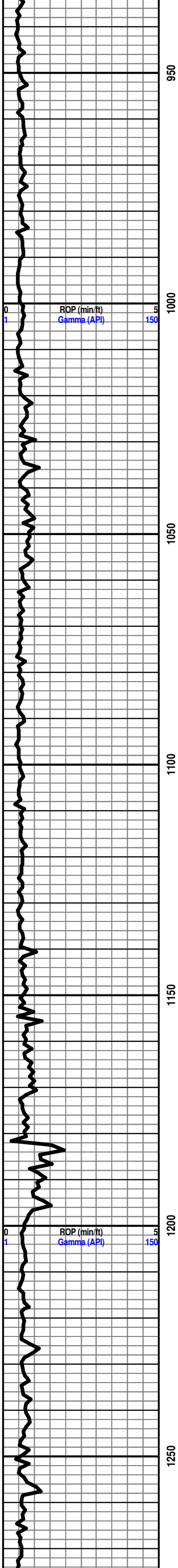
- Core
- Dst
- Dst

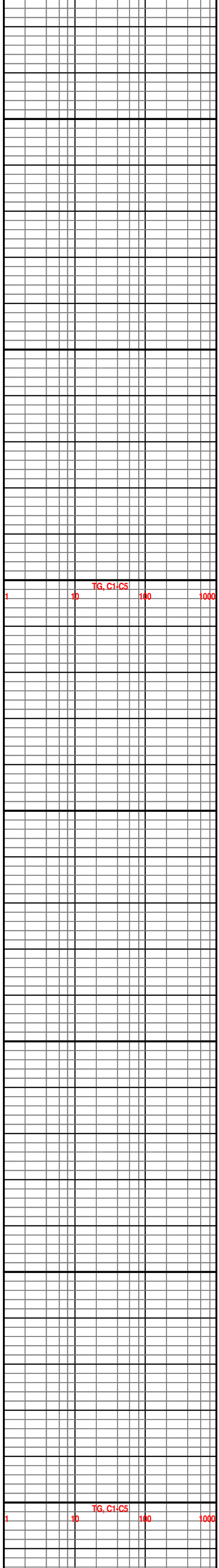
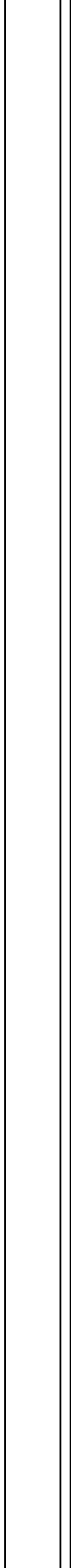
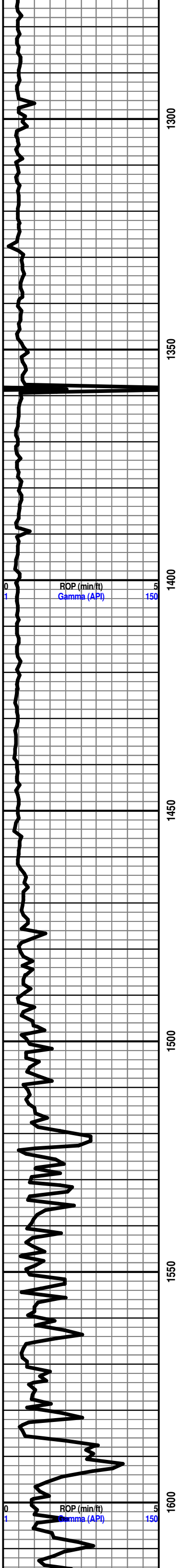
EVENTS

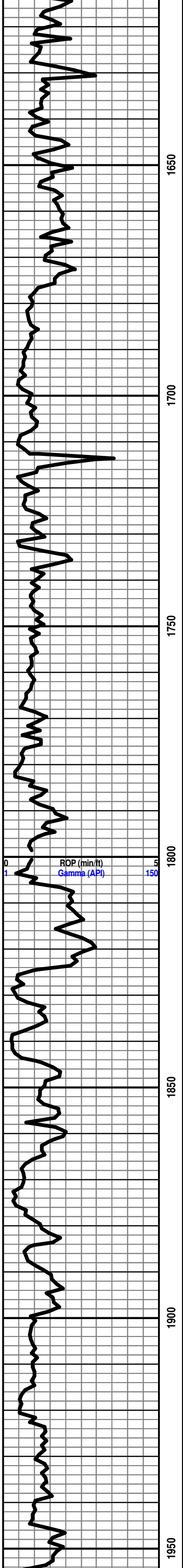
- Rft
- Sidewall



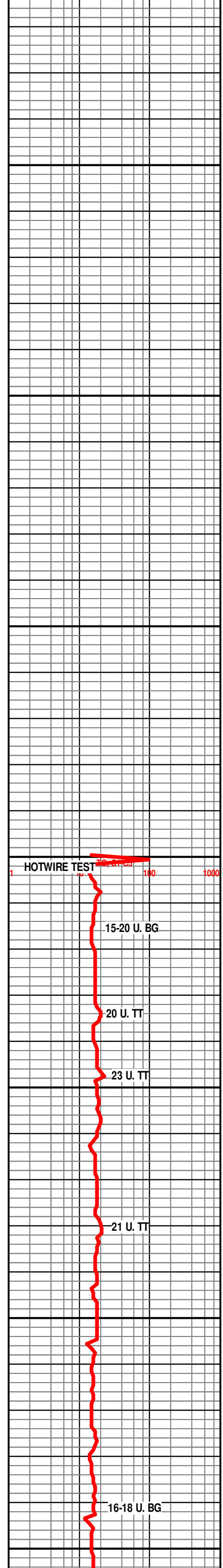


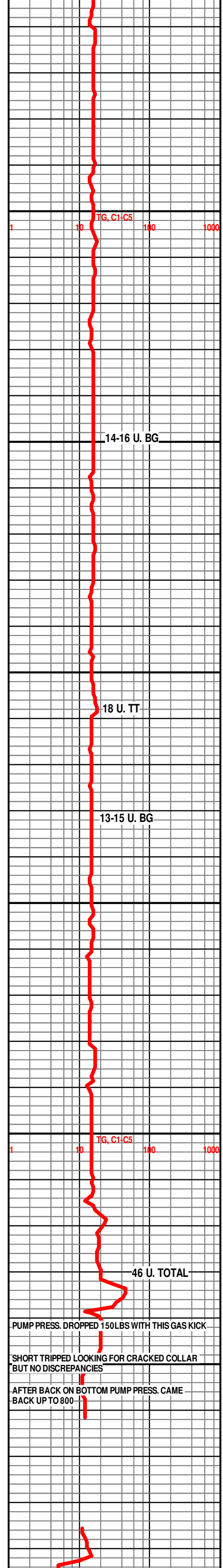
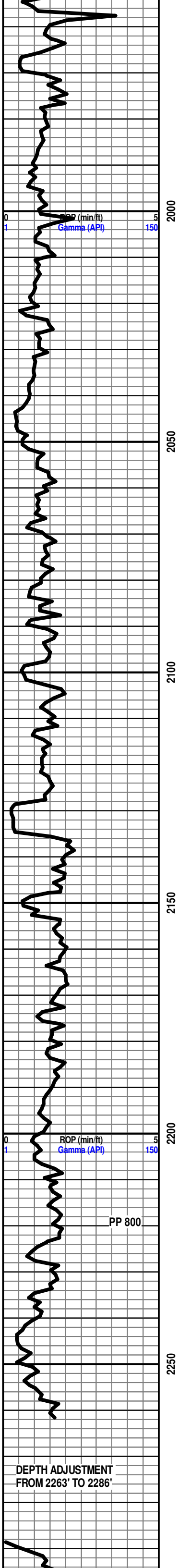


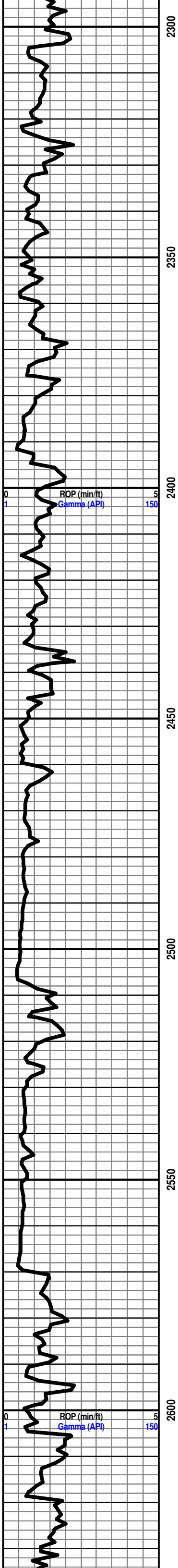




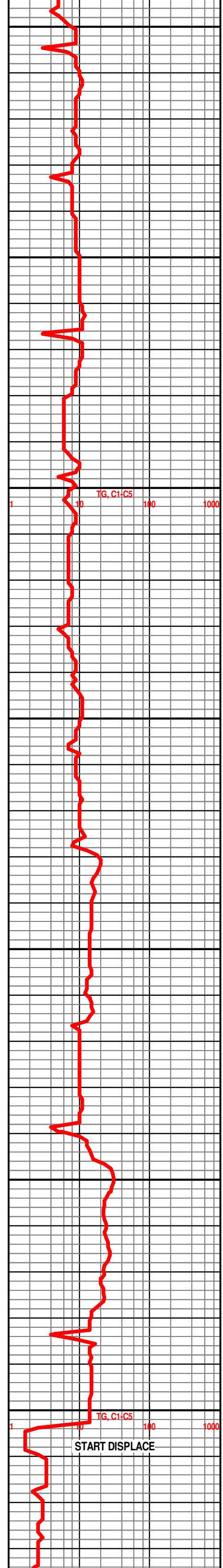
DEPTH ADJUSTMENT AT 1799'

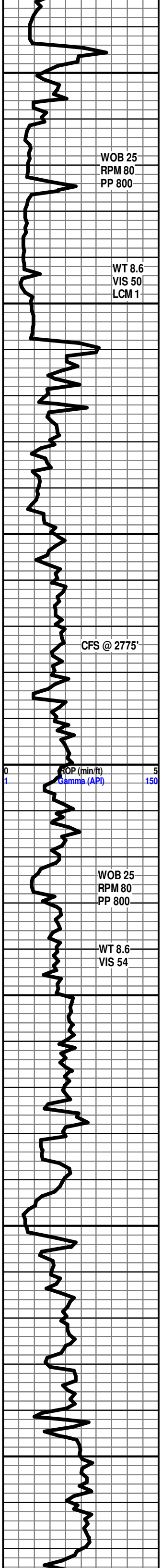




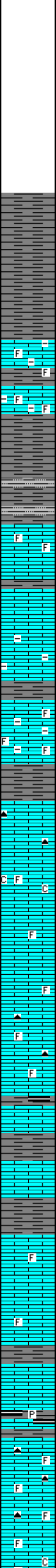


BASE ROOT SH 2507' - 605'





2650
2700
2750
2800
2850
2900
2950



SH- LT TO MD GY- FRM BLKY SMTH TXT IP TO TR SFT GMMY

HOWARD 2708' - 806'

LS- CRM LT TN LT GY-HD DNS TO V/ BRITT IP, MD-F-XLN V/RE-XLN MTRX, V/ FOSS , V/ ARG TO SHLY IP, LT BRIT YEL MIN FLO IP, NO VIS POR, NO VIS SHOW OR CUT

SH- LT TO MD GY- FRM BLKY SMTH IP TO V/ SFT SLTY TXT IP, TR SLTST

TOPEKA 2748' - 846'

2754-2756' LS- CRM BFF LT TN(BRN IN 1 ROCK)- HD DNS IP TO BRITT TO V/ BRITT, MD-XLN , RE-XLN MTRX FOSS FRGS SCAT THRU, TR V/ FN SUCRO MTRX IP, TR IMBD V/F-LM AND V/F-QUARTZ GRNS IP, SLI TR S-CHLKY THRU, SMLL CALC XLS IMBD THRU, LT BRIT YEL MIN FLO, PR SCAT MICROVUG POR IP, NO VIS CUT IN 99% , GD FLSH CUT TO GD SLO STRM MLKY BLU CUT IN 1 SMALL ROCK FLOATING IN DISH

LS- CRM LT TN LT GY - HD DNS MOTT, F-XLN TO TT SUCRO MTRX, V/ ARG IP, TR FOSS FRGS IP, LT YEL MIN FLO, NO VIS SHOW OR CUT

SH- MD GY- FRM BLKY SMTH TXT SLI CALC IP

LS- CRM LT TN TN LT GY- HD DNS MOTT IP, MD-F-XLN TO SUCRO IP, V/ FOSS IP , V/ ARG TO SHLY IP, LT BRIT YEL MIN FLO, NO VIS POR, NO VIS SHOW OR CUT

LS- LT TN TN LT BRN- HD DNS TO BRITT IP, F-V/F-XLN, TR TT SUCRO MTRX, TN TRNSLCNT CHRT IP, LT YEL MIN FLO, NO VIS POR, NO VIS SHOW OR CUT

LS- OFF WHT WHT CRM LT TN - HD BRITT TO SUCRO S-CHLKY IP, TR V/ SFT WHT GMMY CHLK, TR FOSS FRGS IP, LT YEL MIN FLO, NO VIS POR, NO VIS POR, NO VIS SHOW OR CUT

LS- CRM LT TN TN - HD DNS TO BRITT IP, MD - F-XLN RE-XLN MTRX, FOSS FRGS IMBD IP, DLL YEL MIN FLO IP, NO VIS POR, NO VIS SHOW OR CUT

LS- CRM LT TN TN- HD DNS TO TR BRITT, MD-F-XLN RE-XLN MTRX , ABDT IMBD FOSS FRGS THRU, TR FREE FOSS, TR TN TRNSLCNT CHRT, LT DLL YEL MIN FLO, NO VIS POR, NO VIS SHOW OR CUT

SH- DK GY - FRM BLKY TO BLK SFT CARB

SH - LT TO MD GY- FRM BLKY SMTH TXT, V/ CALC IP

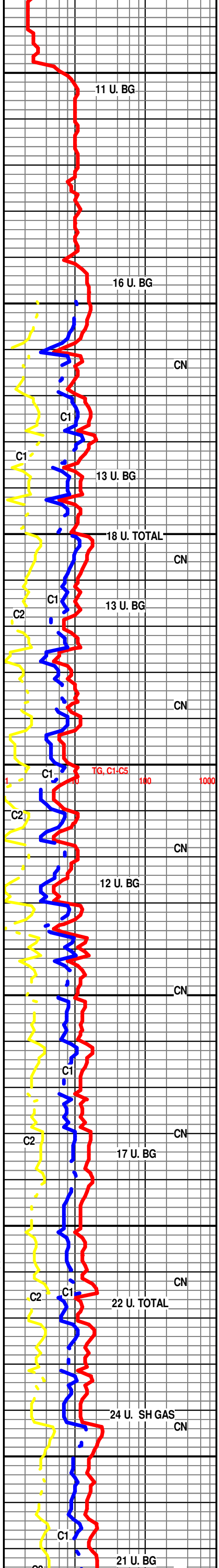
LeCOMPTON 2902' - 1000'

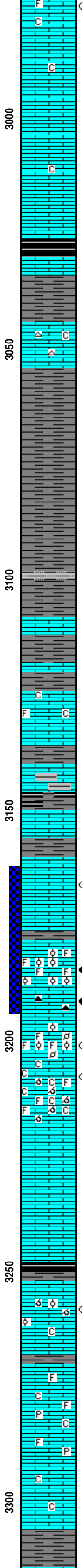
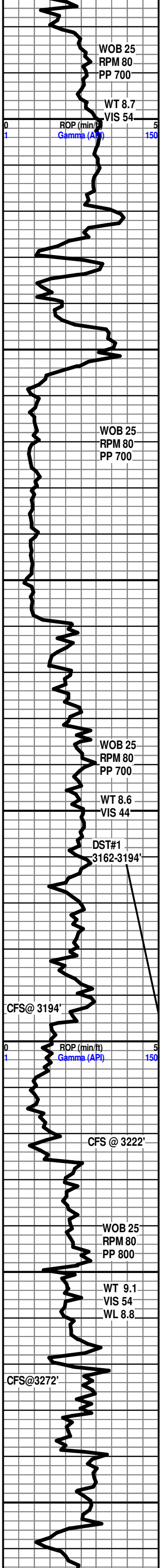
LS- LT TN TN - HD DNS TO SLI TR BRITT IP, MD-F-XLN , TR IMBD FOSS FRGS IP, SLI TR IMBD DISS SH IP, DLL YEL FLO, NO VIS POR, NO VIS SHOW

SH - LT TO MD GY- FRM BLKY SMTH TXT, SLI GRNY TXT IP

SH- BLK SFT CARB TO MD TO DK GY W/ IMBD PYR CLSTERS

LS- TN DK TN BRN- HD DNS MOTT, F-V/F-XLN V/RE-XLN MTRX, ABDT IMBD FOSS AND FOSS FRGS THRU, TN WHT BRN MOTT CHRT, LT DLL YEL MIN FLO , NO VIS POR, NO VIS SHOW OR CUT





LS- OFF WHT CRM LT TN TN (LT TN STN SCAT IN 50%)- HD DNS TO BRITT IP, MD-XLN TO TT SUCRO MTRX , SMLL IMBD CALC XLS SCAT IP, ABTD IMBD SFT & FRM WHT CHLK THRU , TR FOSS FRGS IP, V/ DLL YEL FLO IN 40%, TR V/ PR SCAT INTER-XLN POR IN 2%, GOOD OIL ODOR, LT FLSH CUT THRU , FR TO GD SLO STRM CUT IN 30%, NO LCH ON DISH

LS- CRM LT TN TN- HD DNS F-V/F-XLN , V/ TT SUCRO IP, TR FRM WHT CHLK IP, NO FLO, NO VIS POR, NO VIS SHOW OR CUT

HEEBNER 3026' - 1124'

SH- BLK SFT CARB

LS- TN BRN- HD DNS V/F-CRYPTO-XLN, TR IMBD CALC XLS IP, NO FLO, NO VIS POR, NO VIS SHOW OR CUT

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

LS- WHT OFF WHT -HD DNS F-V/F-XLN RE-XLN IP, TR WHT FRM CHLK IP, WHT CHRT IP, NO FLO, NO VIS POR, NO VIS SHOW OR CUT

DOUGLAS 3054' - 1152'

SH- LT TO MD GY- FRM BLKY SMTH WXY TXT

SH- GY DK GY RED-MOTT, FRM BLKY SMTH TXT TO GRNY IP SLI SLTY IP

BR. LIME 3108' - 1206'

LS- DK TN BRN- HD DNS V/F-CRYPTO-XLN, TR SMLL CALC XLS IMBD IP, NO FLO, NO VIS POR, NO VIS SHOW OR CUT

LANSING 3124' - 1222'

LS- OFF WHT CRM BFF- MD HD TO HD DNS IP, V/ SUCRO S-CHLKY MTRX TO F-V/F-XLN IP, SLI TR FOSS IP, NO FLO, NO VIS POR, NO VIS SHOW OR CUT

LANSING "X" 3145' - 1243'

LS- OFF WHT CRM BFF- HD DNS BRITT, F-V/F-XLN TO MD-XLN IP, TR IMBD LT GY SH IP, TR LT BRIT YEL FLO IP TO NO FLO, NO VIS POR, NO VIS SHOW OR CUT

3164-3168' LS-CRM BFF LT TN (TN STN IN 2-3%) HD DNS TO BRITT IP ,MD-XLN, RE-XLN MTRX , SMLL CALC XLS IP, SLI S-CHLKY IP, BRIT YEL GLD FLO IN 40%, PR VIS MICRO PP TO FR SCAT MICROVUG POR IN 2-3%, GD OIL ODOR, NO FLSH CUT, LT SLO STRM MLKY CUT IN 10%

3182- 3185 LS- TN BRN GY- HD DNS MOTT-BRN OIL STN IN 70%, HD DNS TO BRITT, MD-XLN, V/ RE-XLN MTRX, SMLL TO MD OOL THRU, TR LRG OOL IP, ABTD FOSS FRGS THRU, ABTD SMLL CALC XLS INTEROOL, BRIT YEL GLD FLO IN 20%, DLL YEL GLD SPTTD FLO IN 70%, PR VIS INTER-OOL POR, PR TO FR VIS INTER-FOSS POR, TR PR TO FR SCAT MICROVUG POR IP, GD OIL ODOR, SEVERAL LIVE OIL DROPS IN TRAY, GD INST FLSH CUT IN 70%, FR TO GD SLO STRM MLKY BLU CUT IN 50%,

3188-3190 LS-CRM LT TN BRN- TN BRN OIL STN SCAT THRU, HD DNS V/F-XLN TO V/ TT SUCRO IP, TR FOSS FRGS IP, TN WHT CHRT IP, TN STN LMNTD ON ONE FACES OF ROCK, BRIT YEL GLD FLO IN 20% , V/V/DLL YEL FLO IN 30%, NO VIS POR, POSS TR MICRO PP POR IP, EXCEL INST FLSH CUT THRU, EXCEL SLO STRM MLKY BLU CUT IN 80% FR OIL ODOR

3202-3203- LS- LT TN TN BRN DUE TO SCAT DK BRN OILS STN- HD DNS V/F-F-XLN, V/ RE-XLN MTRX, IMBD FOSS FRGS THRU, TR SCAT IMBD PELT, SCAT SMLL OOL IP, V/DLL YEL GLD FLO IN 20%, TR V/ PR SCAT MICRO VUG POR IP, GD FLSH CUT IN 20%, GD SLO STM MLKY BLU CUT IN 30%, HVY OIL ODOR, STN ON DISH'

3205-3216 LS-CRM BFF- HD BRITT, MD-XLN , V/ RE-XLN MTRX, V/FOSS IP, V/ OOLMLD THRU, SCAT IMBD SMLL OOL IP, ABTD IMBD SFT TO FRM WHT CHLK IP, ABTD FREE FRM WHT CHLK, TR BRIT YEL GLD FLO IN 1 ROCK, DLL YEL MIN FLO IN 30%, PR TO FR TO TR GD OOLMLD POR SCAT THRU, PR SCAT MICRO VUG POR IP, TR PR SLO STRM CUT IN 1 ROCK, NO CUT IN 99%, NO ODOR

LANSING "Z" 3249' - 1347'

SH- BLK SFT CARB

LS- OFF WHT CRM LT TN DUE TO LT TN STN IN 40-50%, HD DNS TO SLI BRITT IP, F-XLN IP TO V/ SUCRO MTRX, RE-XLN IP, TR MICRO OOLMLD IP, TR SMLL OOL IP, SMLL CALC XLS IMBD IP, FRM WHT CHLK IP, BRIT YEL GLD FLO THRU, PR VIS OOLMLD POR, POSS FRACT POR, GD OIL ODOR, GD FLSH CUT IN 10%, FR SLO STRM CUT IN 40%, NO LCH ON DISH

SH- GY LT GRN RED -MOTT, FRM BLKY SMTH TXT

LS- OFF WHT CRM BFF- HD DNS TO BRITT, MD-XLN RE-XLN IP, FREE FOSS IP, ABTD SFT WHT CHLK TO FRM CHLK IP, TR FREE PYR CLSTRS, NO FLO, NO VIS POR, NO VIS SHOW OR CUT

LS- DK TN LT BRN- HD DNS MOTT, F-V/F-XLN TO CRYPTO-XLN IP, TR SFT CHLK IP, DLL YEL MIN FLO, NO VIS POR, NO VIS SHOW OR CUT

STARK 3306' - 1404'

SH- DK GY RED GRN -MOTT, FRM BLKY SMTH TXT TO HD SPLNTY IP

