



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1217726
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: _____

1217726

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
----------------	-------	---------	------------	---

Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
---	--

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> _____	PRODUCTION INTERVAL: _____ _____
--	---	---

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	J.C. 1-16
Doc ID	1217726

All Electric Logs Run

ARRAY-INDUCTION
DEN-NEUT
MICRO
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: 4/18/2014
 Invoice # 21

P.O.#:

Due Date: 5/18/2014

Division: Russell

Invoice

Contact:
 Samuel Gary Jr & Associates Inc
Address/Job Location:
 Samuel Gary Jr & Associates Inc
 1935 LOUIE ROAD
 HAYS KANSAS 67601

DRLG COMP W/O LOE GG

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

Reference:

J C 1-16

Description of Work:

LONG SURFACE

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 1,020.55	No				
Common-Class A	275	\$ 4,610.29	Yes				
Calcium Chloride	10	\$ 622.08	Yes				
Bulk Truck Mat-Material Service Charge	290	\$ 648.24	No				
8 5/8" Basket	1	\$ 353.18	Yes				
Pump Truck Mileage-Job to Nearest Camp	32	\$ 356.93	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	32	\$ 208.87	No				
8 5/8" Top Rubber Plug	1	\$ 118.47	Yes				
Baffle Plate Aluminum, 8 5/8"	1	\$ 100.59	Yes				
Premium Gel (Bentonite)	5	\$ 90.98	Yes				
8 5/8" Centralizer	1	\$ 71.53	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 8,201.70

Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,230.25)

SubTotal for Taxable Items: \$ 5,072.05

SubTotal for Non-Taxable Items: \$ 1,899.39

Total: \$ 6,971.45

Tax: \$ 311.93

6.15% Rooks County Sales Tax

Amount Due: \$ 7,283.38

Applied Payments:

Balance Due: \$ 7,283.38

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

MAY 01 2014

SAMUEL GARY JR.
 & ASSOCIATES, INC.


QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 021

Date	Sec.	Twp.	Range	County	State	On Location	Finish
4-18-14	16	9	16	Rooks	KS		1:15 AM
Lease J.C.				Well No. 1-16		Owner	
Contractor W.W. #12				To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Type Job Surface				Charge To Sam Gray Jr & Associates			
Hole Size 12 1/4		T.D. 642		Street			
Csg. 8 5/8		Depth 642		City State			
Tbg. Size		Depth		The above was done to satisfaction and supervision of owner agent or contractor.			
Tool		Depth		Cement Amount Ordered 275 com 3/4 2-1/2 6E1			
Cement Left in Csg. 4217		Shoe Joint 42.17		Meas Line Displace 3830			
EQUIPMENT				Common 275			
Pumptrk 16	No.	Cementer		Poz. Mix			
		Helper		Gel. 5			
Bulktrk	No.	Driver		Calcium 10			
		Driver		Hulls			
Bulktrk 13	No.	Driver		Salt			
		Driver		Flowseal			
JOB SERVICES & REMARKS				Kol-Seal			
Remarks:				Mud CLR 48			
Rat Hole				CFL-117 or CD110 CAF 38			
Mouse Hole				Sand			
Centralizers				Handling 290			
Baskets				Mileage			
D/V or Port Collar				FLOAT EQUIPMENT			
8 5/8 on bottom Est Circulation				Guide Shoe 8 5/8			
Mix 275 SKV Displace				Centralizer 1			
Cement Circulated				Baskets 1			
				AFU Inserts Baffle Plate			
				Float Shoe Rubber Plug			
				Latch Down			
				Pumptrk Charge Long Surface			
				Mileage 32			
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: 4/24/2014
 Invoice # 210
 P.O.#:
 Due Date: 5/24/2014
 Division: Russell

Invoice

Contact:
 Samuel Gary Jr & Associates Inc
Address/Job Location:
 Samuel Gary Jr & Associates Inc
 1935 LOUIE ROAD
 HAYS KANSAS 67601

DRLG COMP W/O LOE GG

Account	8200.145
Well/Prospect	
Deck	
AFE	
Approval	<i>[Signature]</i>
Description	

Reference:
 J C 1-16

Description of Work:
 PLUG JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 1,020.55	Yes				
Common-Class A	135	\$ 2,263.24	Yes				
POZ Mix-Standard	90	\$ 633.71	Yes				
Bulk Truck Matl-Material Service Charge	233	\$ 520.82	Yes				
Pump Truck Mileage-Job to Nearest Camp	32	\$ 356.93	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	32	\$ 208.87	Yes				
Premium Gel (Bentonite)	8	\$ 145.56	Yes				
Flo Seal	56	\$ 125.18	Yes				
Dry Hole Plug	1	\$ 62.59	Yes				

Invoice Terms:
 Net 30

SubTotal:	\$	5,337.44
Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:	\$	(800.62)
<hr/>		
SubTotal for Taxable Items:	\$	4,536.82
SubTotal for Non-Taxable Items:	\$	-
<hr/>		
Total:	\$	4,536.82
Tax:	\$	279.01
<hr/>		
Amount Due:	\$	4,815.83
Applied Payments:		
Balance Due:	\$	4,815.83

6.15% Rooks 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
 MAY 07 2014
 SAMUEL GARY JR.
 & ASSOCIATES, INC.

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 210

Date	Sec.	Twp.	Range	County	State	On Location	Finish
4-24-14	16	9	16	Rooks	KS		8:30AM

Location *Plainvill E to 28 Rd, N to V Rd, 1/2 W, Nn2*

Lease <i>J.C.</i>	Well No. <i>1-16</i>	Owner
Contractor <i>Ww #12</i>		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Type Job <i>Plug</i>		Charge To <i>Sam Gary Jr & Associates</i>
Hole Size <i>7 7/8</i>	T.D.	Street
Csg.	Depth	City
Tbg. Size	Depth	State
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg.	Shoe Joint	Cement Amount Ordered <i>225sx 60/40, 4% gel, 1/4# Flow</i>

Meas Line	Displace	Common
EQUIPMENT		<i>135</i>
Pumptrk <i>5</i>	No. Cementer	Poz. Mix
	Helper <i>David</i>	<i>90</i>
Bulktrk <i>14</i>	No. Driver	Gel.
	Driver <i>Ryan</i>	<i>8</i>
Bulktrk <i>P4</i>	No. Driver	Calcium
	Driver <i>Travis</i>	

JOB SERVICES & REMARKS		Hulls
Remarks:		Salt
Rat Hole		Flowseal <i>56A</i>
Mouse Hole		Kol-Seal
Centralizers		Mud CLR 48
Baskets		CFL-117 or CD110 CAF 38
D/V or Port Collar		Sand
<i>50sx at 3519</i>		Handling <i>233</i>
<i>25sx at 1340</i>		Mileage
<i>100sx at 820</i>		FLOAT EQUIPMENT
<i>40sx at 695</i>		Guide Shoe
<i>10sx at 40 with plug</i>		Centralizer
<i>30sx Rat</i>		Baskets
		AFU Inserts
		Float Shoe
		Latch Down
		<i>1 wood Plug</i>
		Pumptrk Charge <i>plug</i>
		Mileage <i>32</i>

X Signature <i>Cal O'Connell</i>	Tax
	Discount
	Total Charge



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Samuel Gary Jr & Assoc Inc

16-9s-16w Rooks

1515 Wynkoop
STE 700
Denver, CO 80202
ATTN: Clayton Camozzi

JC #1-16

Job Ticket: 55329

DST#: 1

Test Start: 2014.04.20 @ 15:40:13

GENERAL INFORMATION:

Formation: **LeCompton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:42:08

Time Test Ended: 21:07:37

Test Type: Conventional Bottom Hole (Initial)

Tester: Ray Schwager

Unit No: 70

Interval: 3048.00 ft (KB) To 3076.00 ft (KB) (TVD)

Reference Elevations: 2061.00 ft (KB)

Total Depth: 3076.00 ft (KB) (TVD)

2053.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8369 Inside

Press @ Run Depth: 16.74 psig @ 3049.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.20 End Date: 2014.04.20

Last Calib.: 2014.04.20

Start Time: 15:40:13 End Time: 21:07:37

Time On Btm: 2014.04.20 @ 17:39:53

Time Off Btm: 2014.04.20 @ 19:37:23

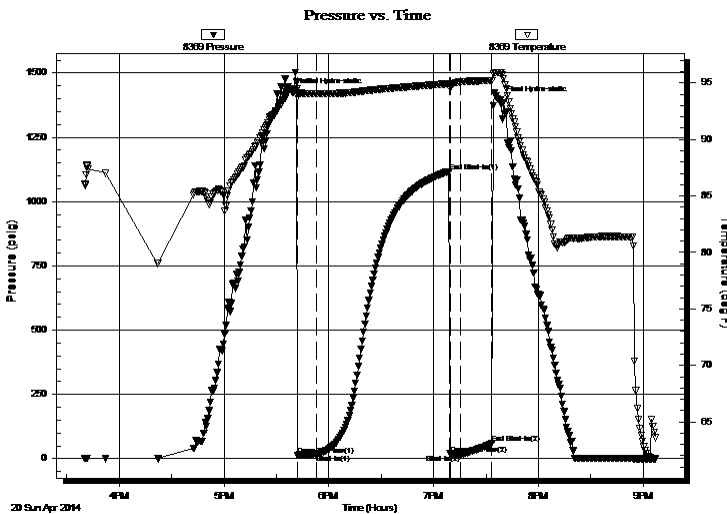
TEST COMMENT: 10-IFP-surface bl died in 6min

75-ISIP-no bl

5-FFP-no bl

20-FSIP-no bl

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1424.60	94.46	Initial Hydro-static
3	14.94	93.76	Open To Flow (1)
13	16.64	94.05	Shut-In(1)
89	1117.15	94.94	End Shut-In(1)
90	18.38	94.71	Open To Flow (2)
96	16.74	95.09	Shut-In(2)
114	59.24	95.23	End Shut-In(2)
118	1393.84	95.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	O&GCM 5%G20%O75%M	0.01

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr & Assoc Inc

16-9s-16w Rooks

1515 Wynkoop
STE 700
Denver, CO 80202
ATTN: Clayton Camozzi

JC #1-16

Job Ticket: 55329

DST#: 1

Test Start: 2014.04.20 @ 15:40:13

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 61.00 sec/qt

Water Loss: 7.19 in³

Resistivity: ohm.m

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	O&GCM 5%G20%O75%M	0.015

Total Length: 3.00 ft Total Volume: 0.015 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Data: PSI 40# 100MLgas 400ML oil 1500ML mud

Serial #: 8369

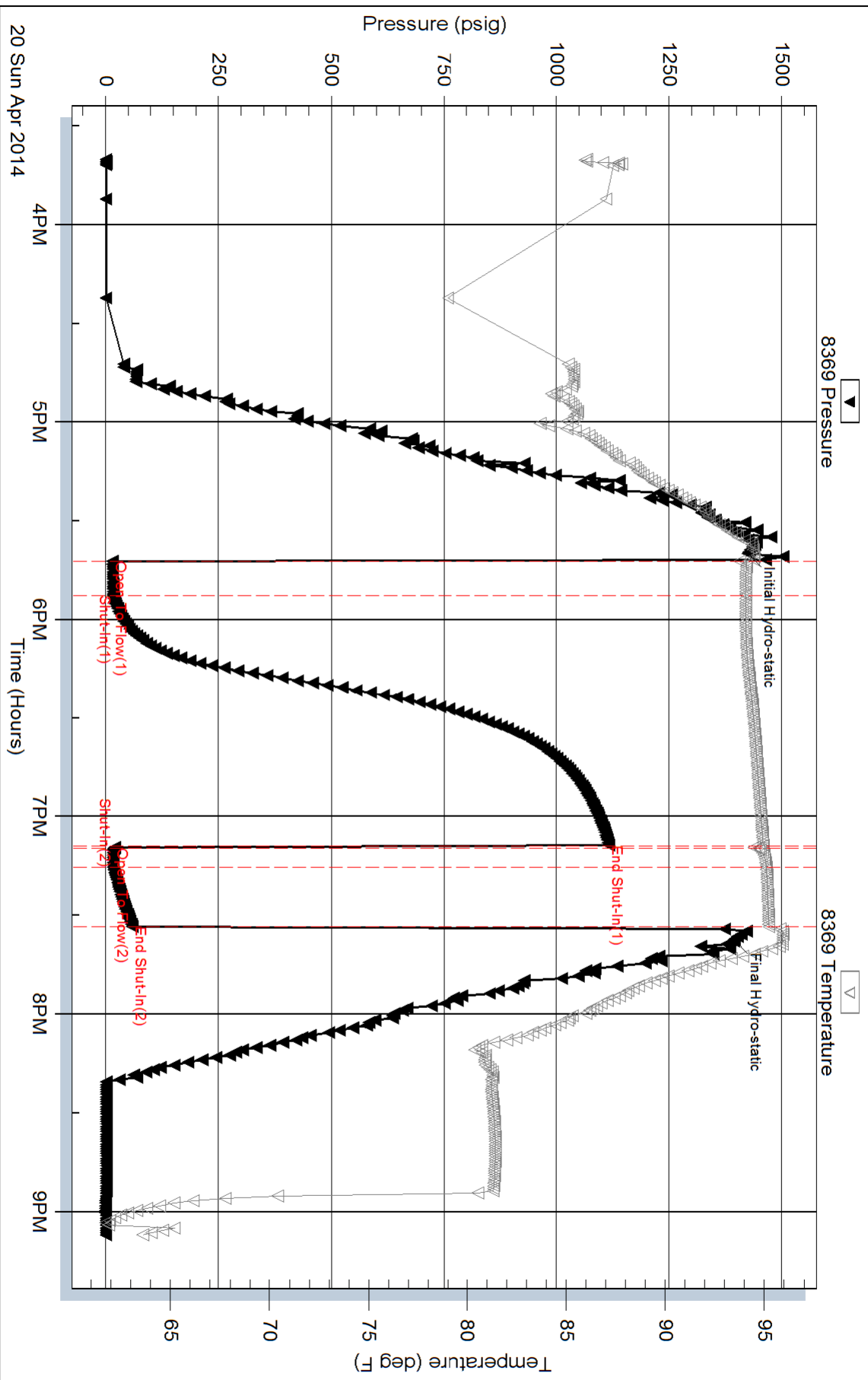
Inside

Samuel Gary Jr & Assoc Inc

JC#1-16

DST Test Number: 1

Pressure vs. Time

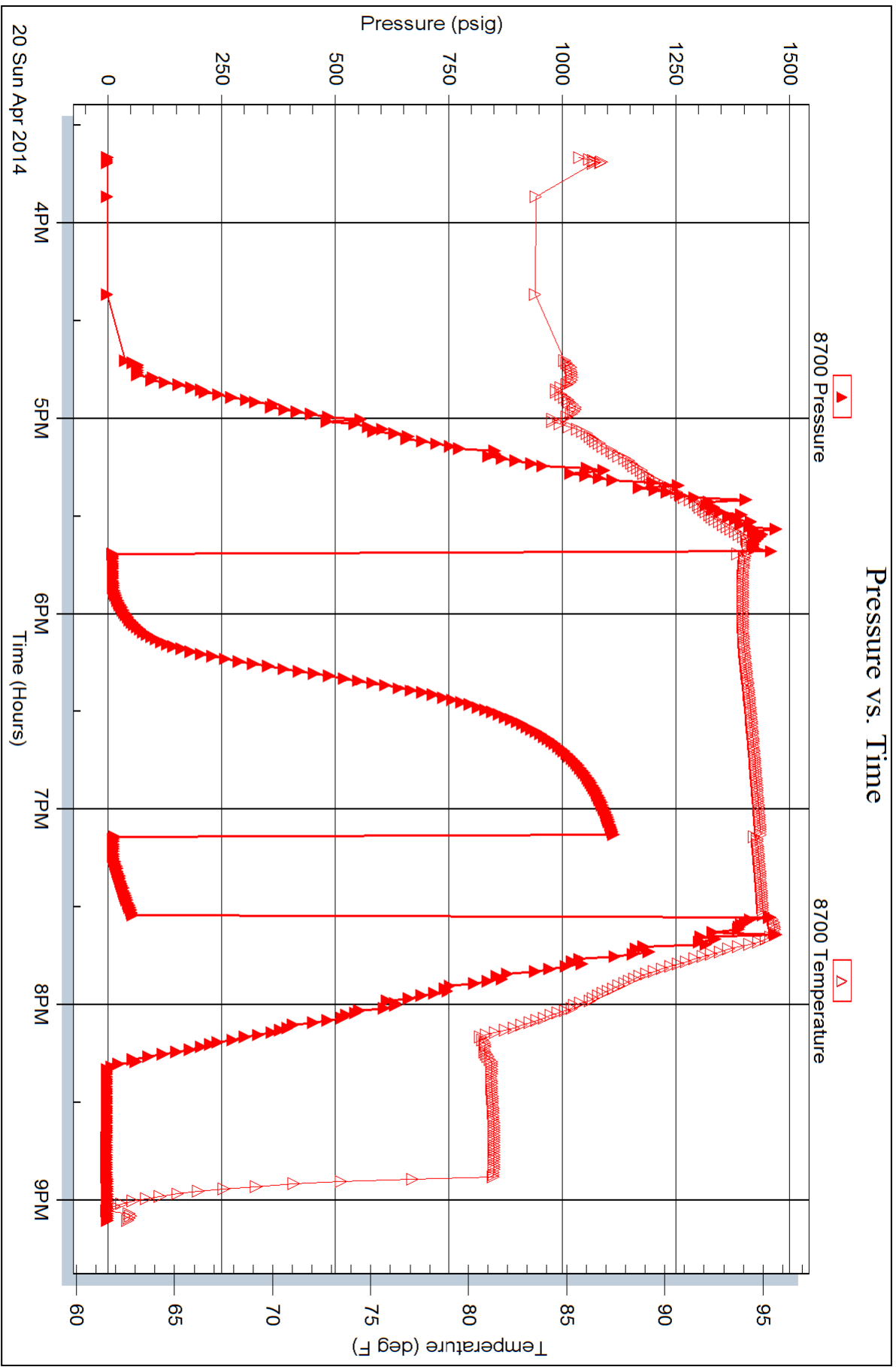


Serial #: 8700

Outside Samuel Gary Jr & Assoc Inc

JC#1-16

DST Test Number: 1



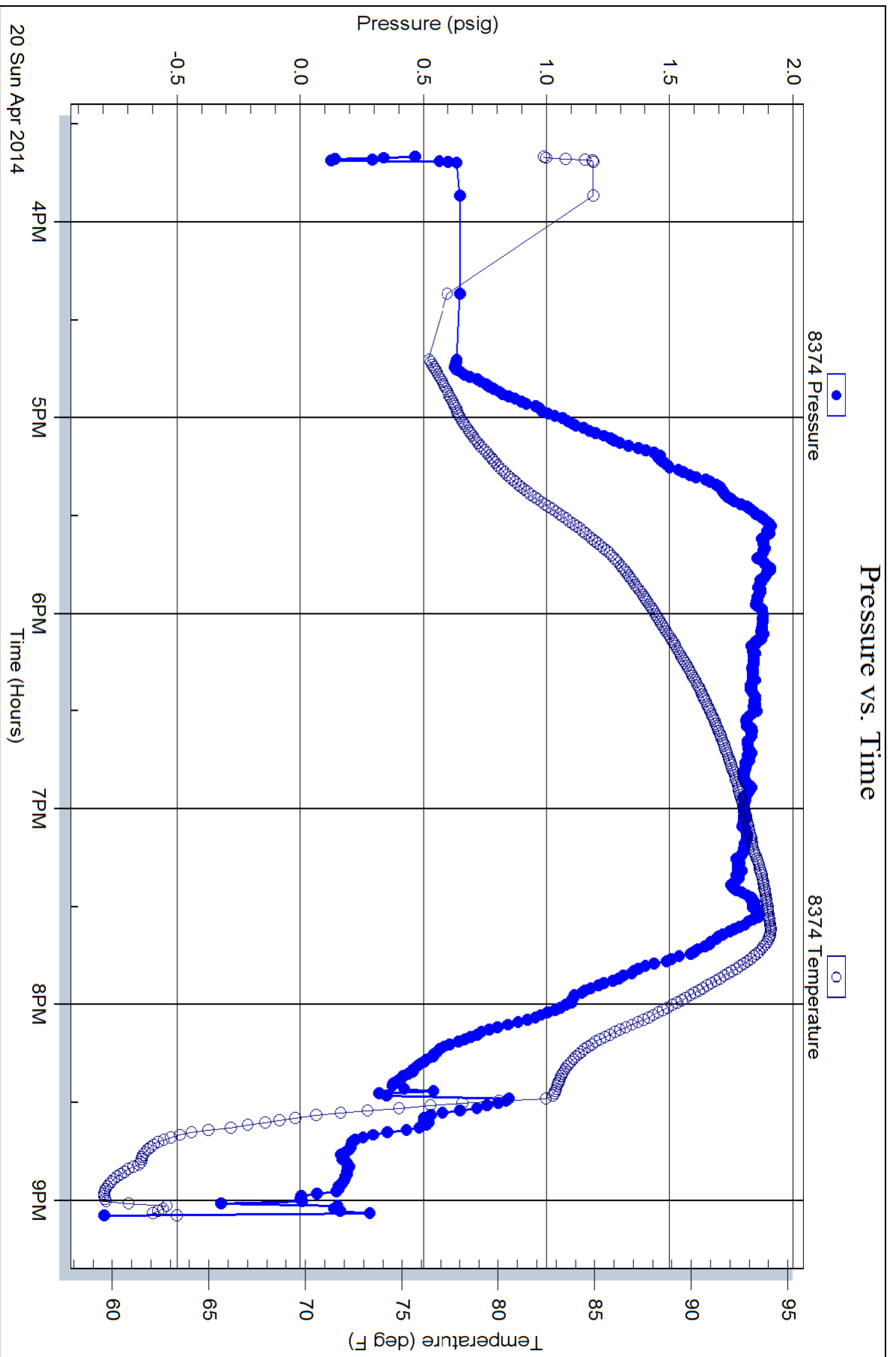
Serial #: 8374

Fluid

Samuel Gary Jr & Assoc Inc

JC#1-16

DST Test Number: 1





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Samuel Gary Jr & Assoc Inc

16-9s-16w Rooks

1515 Wynkoop
STE 700
Denver, CO 80202
ATTN: Clayton Camozzi

JC #1-16

Job Ticket: 55330

DST#: 2

Test Start: 2014.04.21 @ 12:55:46

GENERAL INFORMATION:

Formation: **LKC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:39:26

Time Test Ended: 19:00:40

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schwager

Unit No: 70

Interval: 3180.00 ft (KB) To 3216.00 ft (KB) (TVD)

Reference Elevations: 2061.00 ft (KB)

Total Depth: 3216.00 ft (KB) (TVD)

2053.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8369

Inside

Press@RunDepth: 22.17 psig @ 3184.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.21

End Date:

2014.04.21

Last Calib.:

2014.04.21

Start Time: 12:55:46

End Time:

19:00:40

Time On Btm:

2014.04.21 @ 14:37:11

Time Off Btm:

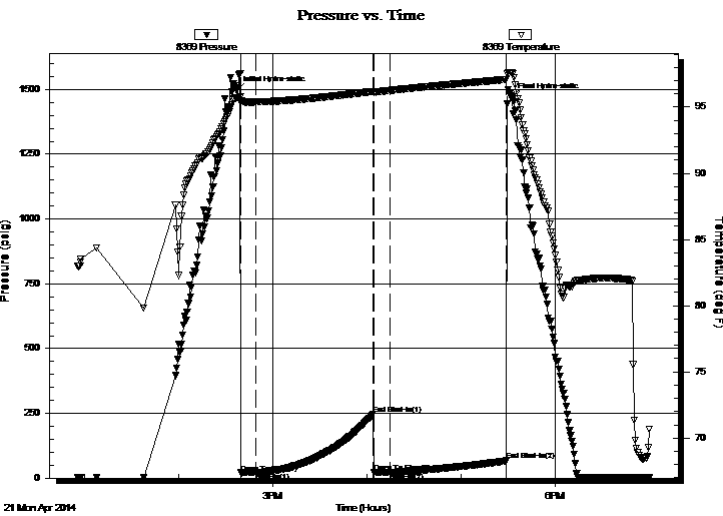
2014.04.21 @ 17:32:10

TEST COMMENT: 10-IFP-surface bl, died in 7min

75-ISIP-no bl

10-FFP-no bl

75-FSIP-no bl



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1496.55	95.70	Initial Hydro-static
3	19.83	95.34	Open To Flow (1)
13	21.88	95.39	Shut-In(1)
87	246.84	96.18	End Shut-In(1)
88	21.90	96.13	Open To Flow (2)
98	22.17	96.25	Shut-In(2)
172	67.13	97.09	End Shut-In(2)
175	1469.53	97.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	SOCM 5% O95%M	0.01

* 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

16-9s-16w Rooks

1515 Wynkoop
STE 700
Denver, CO 80202
ATTN: Clayton Camozzi

JC #1-16

Job Ticket: 55330

DST#: 2

Test Start: 2014.04.21 @ 12:55:46

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 55.00 sec/qt

Water Loss: 7.97 in³

Resistivity: ohm.m

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	SOCM 5%O95%M	0.015

Total Length: 3.00 ft Total Volume: 0.015 bbl

Num Fluid Samples: 0

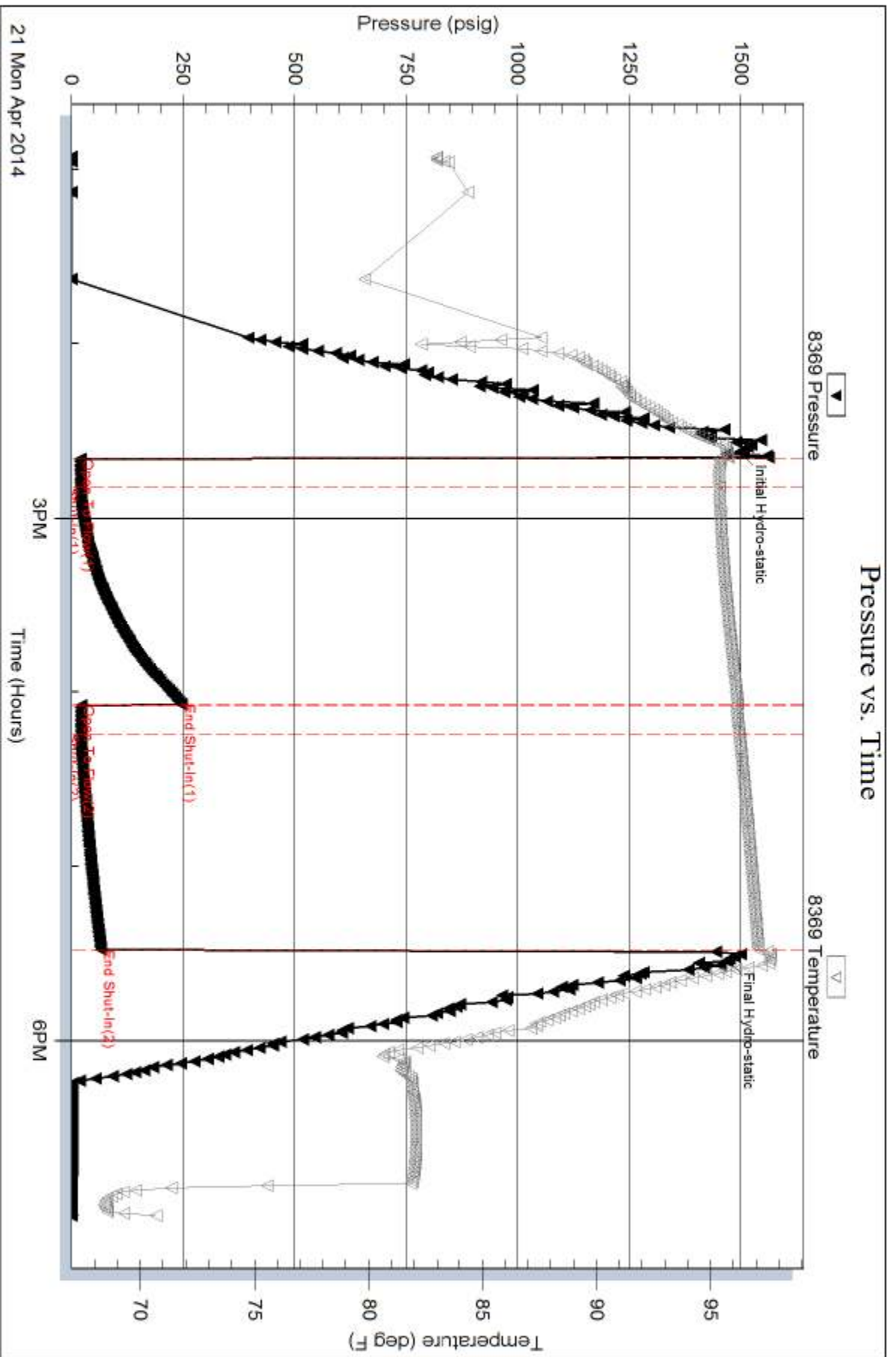
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Data: PSI 40# 100MLoil 1900MLmud



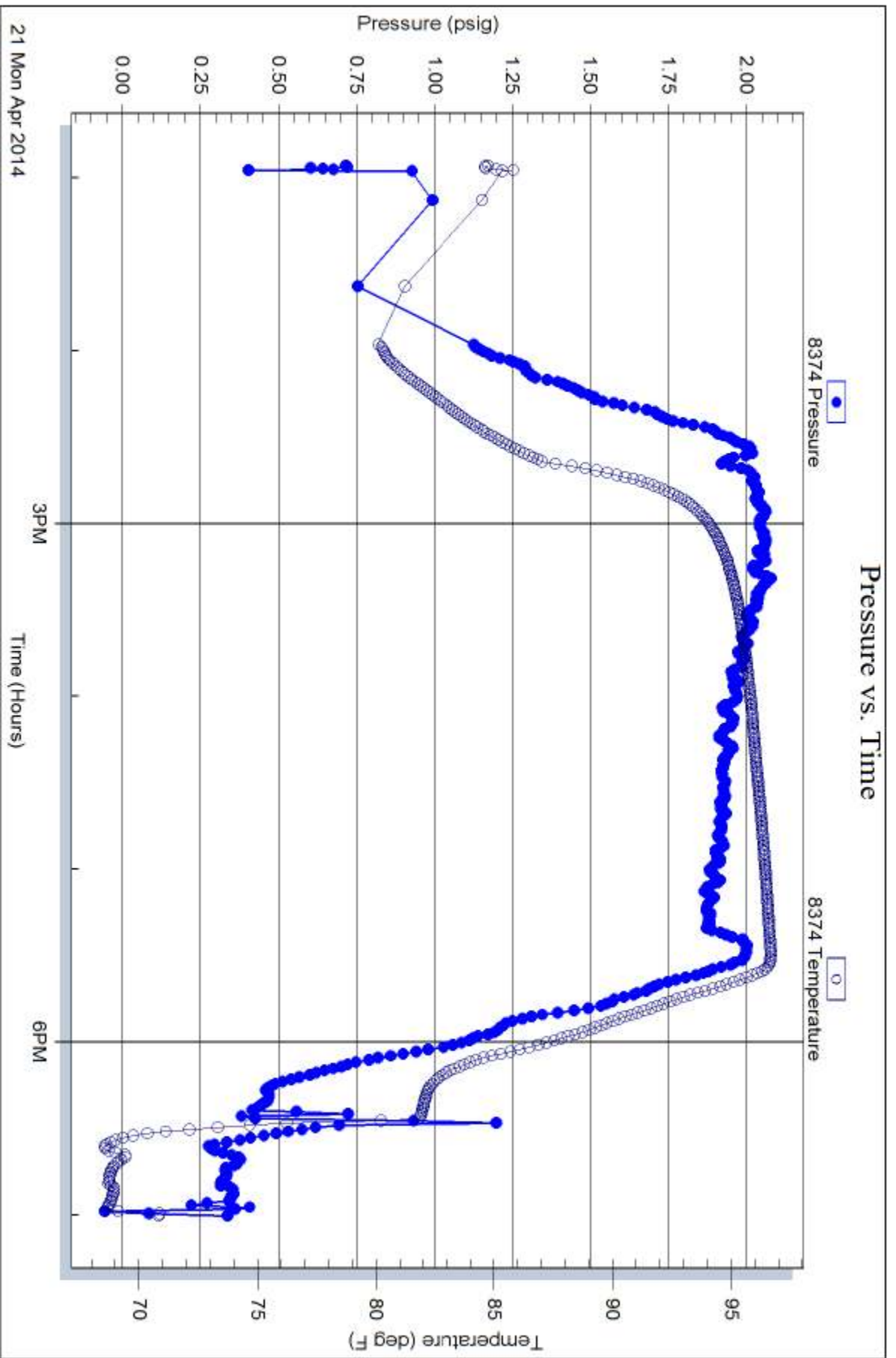
Serial #: 8374

Fluid

Samuel Gary Jr & Assoc Inc

JC #1-16

DST Test Number: 2



Tribble Testing, Inc

Ref. No: 55330

Printed: 2014.04.22 @ 08:43:12



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Samuel Gary Jr & Assoc Inc

16-9s-16w Rooks

1515 Wynkoop
STE 700
Denver, CO 80202
ATTN: Clayton Camozzi

JC #1-16

Job Ticket: 55331

DST#: 3

Test Start: 2014.04.22 @ 17:45:16

GENERAL INFORMATION:

Formation: **LKC K**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:33:41
 Time Test Ended: 01:58:55
 Interval: **3387.00 ft (KB) To 3440.00 ft (KB) (TVD)**
 Total Depth: 3440.00 ft (KB) (TVD)
 Hole Diameter: 7.85 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ray Schwager
 Unit No: 70
 Reference Elevations: 2061.00 ft (KB)
 2053.00 ft (CF)
 KB to GR/CF: 8.00 ft

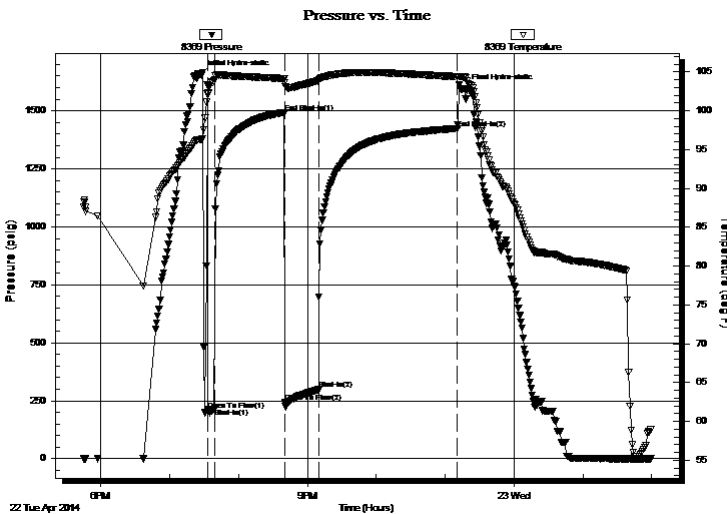
Serial #: 8369

Inside

Press@RunDepth: 298.37 psig @ 3390.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.04.22 End Date: 2014.04.23 Last Calib.: 2014.04.23
 Start Time: 17:45:16 End Time: 01:58:55 Time On Btm: 2014.04.22 @ 19:27:11
 Time Off Btm: 2014.04.22 @ 23:16:55

TEST COMMENT: 5-IFP-strong bl thru-out lost fluid w / 1st set ,pulled reset , held
 60-ISIP-no bl
 30-FFP-w k to strg in 20min
 120-FSIP-no bl

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1654.52	96.30	Initial Hydro-static
7	210.55	102.34	Open To Flow (1)
12	215.83	104.00	Shut-In(1)
73	1491.88	104.11	End Shut-In(1)
74	243.11	103.62	Open To Flow (2)
103	298.37	103.84	Shut-In(2)
224	1424.53	104.38	End Shut-In(2)
230	1595.11	104.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
560.00	MW 25%M75%W w / slight show of oil	6.76

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 & Assoc Inc

16-9s-16w Rooks

1515 Wynkoop
STE 700
Denver ,CO 80202
ATTN: Clayton Camozzi

JC #1-16

Job Ticket: 55331

DST#: 3

Test Start: 2014.04.22 @ 17:45:16

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 57.00 sec/qt

Water Loss: 7.19 in³

Resistivity: ohm.m

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

deg API

Water Salinity: 68000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
560.00	MW 25%M75%W w/ slight show of oil	6.762

Total Length: 560.00 ft Total Volume: 6.762 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

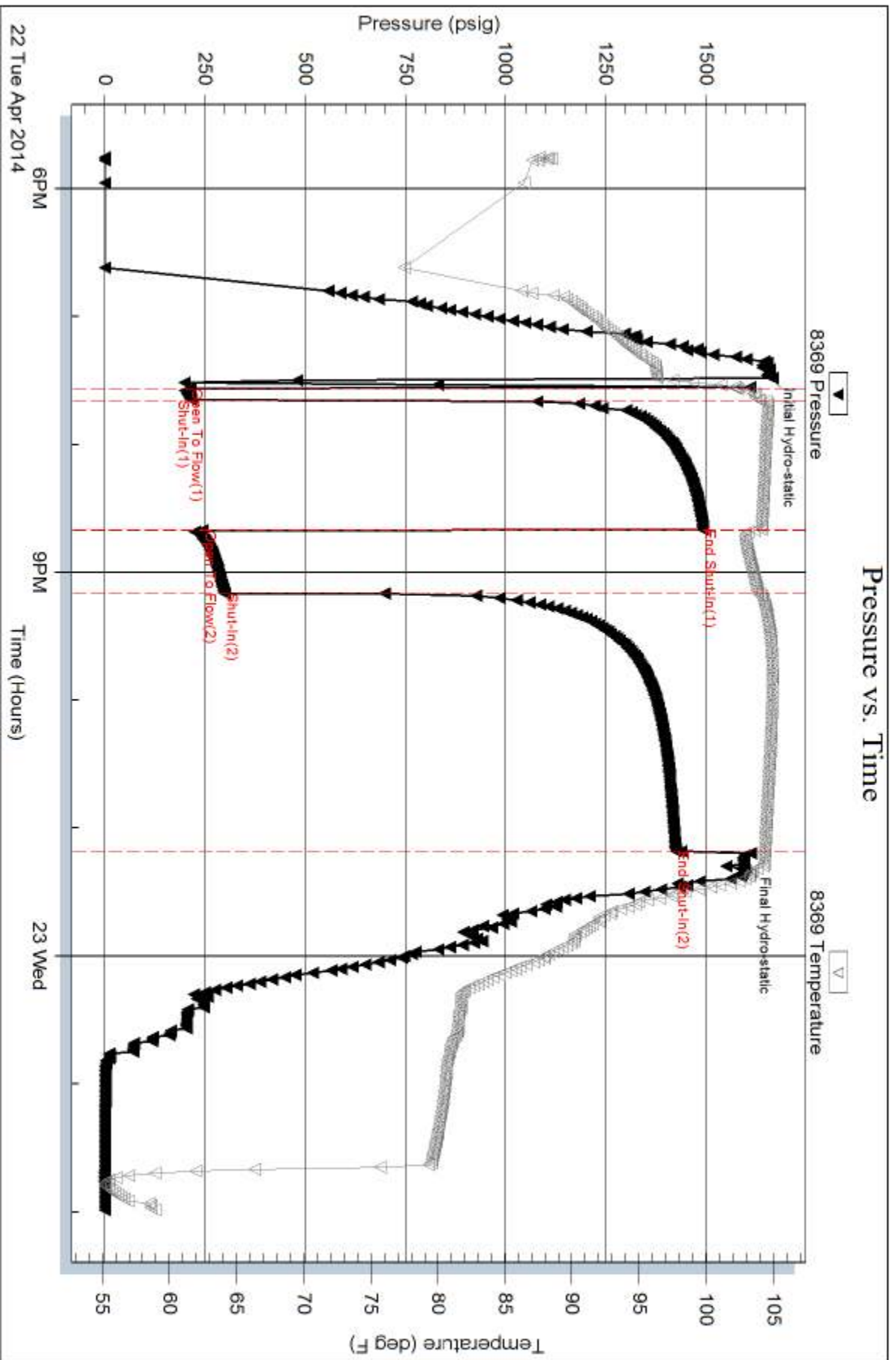
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Data: PSI 250# 500MLmud 1500MLwater
RW .13@60F

Pressure vs. Time





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

Well Name: J.C. 1-16
Well Id:
Location: Sec. 16-9S-16W ROOKS COUNTY, KANSAS
License Number: 15-163-24203-0000 Region: Wildcat
Spud Date: 4/17/2014 Drilling Completed: 4/23/2014
Surface Coordinates: 1420 FSL/ 2310 FEL

Bottom Hole
Coordinates:
Ground Elevation (ft): 2053' K.B. Elevation (ft): 2061'
Logged Interval (ft): 2900' To: 3695' Total Depth (ft): 3695'
Formation: Lansing, Arbuckle
Type of Drilling Fluid:

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

OPERATOR

Company: Sam Gary Jr. & Assoc.
Address: 1515 Wynkoop, Ste. # 700
Denver, Co. 80202
Co. Geo: Clayton Camozzi

GEOLOGIST

Name: Schuyler Hedrick/ Jeff Kamps
Company: Earth Tech OGL, Inc.
Address: PO Box 683
Hooker, Okla 73945
1-(888)-543-8378 Work Cell-(580)-754-0231

DST's Report

DST #1 3048'-3076' 10-75-5-20
IF - SURF BLOW, DIED IN 6 MIN, ISI - NO BLOW, FF - NO BLOW, FSI - NO BLOW
IH - 1424, FH - 1393 / IF - 14-18, FF 16-16 / ISI - 1117, FSI - 59
REC 3' OF TF / 3' OF O & GCM, 5% GAS, 20% OIL, 75% MUD
BHT - 95 / CHLOR -4000 PPM

DST's Report

DST #2 3180'-3216' 10-75-10-75

IF - SURF BLOW, DIED IN 7 MIN, ISI- NO BLOW, FF- NO BLOW, FSI - NO BLOW

IH- 1496, FH - 1469 / IF - 19-22, FF 21--22 / ISI - 246, FSI - 67

REC 3' OF TF / 3' OF SOCM, 5% OIL, 95% WATER

BHT 97 / CHLOR -2500 PPM

DST's Report

DST #3 3387'-3440' 5-60-30-120

IF- STRONG BLOW THRU, ISI - NO BLOW, FF - WEAK TO STRONG IN 20 MIN, FSI - NO BLOW

IH- 1654, FH - 1595 / IF - 210-243, FF - 215-298 / ISI - 1491,

FSI - 1424

REC 560' OF TF / 560' OF MW, 75% WATER, 25% MUD

BHT 104 / CHLOR 3000 PPM

ROCK TYPES

	Anhy
	Bent
	Brec
	Cht
	Clyst
	Coal
	Congl
	Dol

	Gyp
	Igne
	Lmst
	Meta
	Mrlst
	Salt
	Shale
	Shcol

	Shgy
	Sltst
	Ss
	Till
	Carb sh
	Dol
	Dtd
	Gry sh

	Sandylms
	Shale
	Sltstn
	Shlyslts
	Sltysch
	Lms

ACCESSORIES

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

	Salt
	Sandy
	Silt
	Sil
	Sulphur
	Tuff
	Chlorite
	Dol
	Sand
	Sity

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
	Sandylms
	Sh
	Sltstn

TEXTURE

	Boundst
	Chalky
	Cryxln
	Earthy
	Finexln
	Grainst
	Lithogr
	Microxln
	Mudst
	Packst
	Wackest

OTHER SYMBOLS

POROSITY TYPE

- E Earthy
- F Fenest
- X Fracture
- I Inter
- M Moldic
- O Organic
- P Pinpoint
- V Vuggy

SORTING

- W Well
- M Moderate
- P Poor

ROUNDING

- R Rounded
- F Subrnd
- a Subang

- A Angular

OIL SHOWS

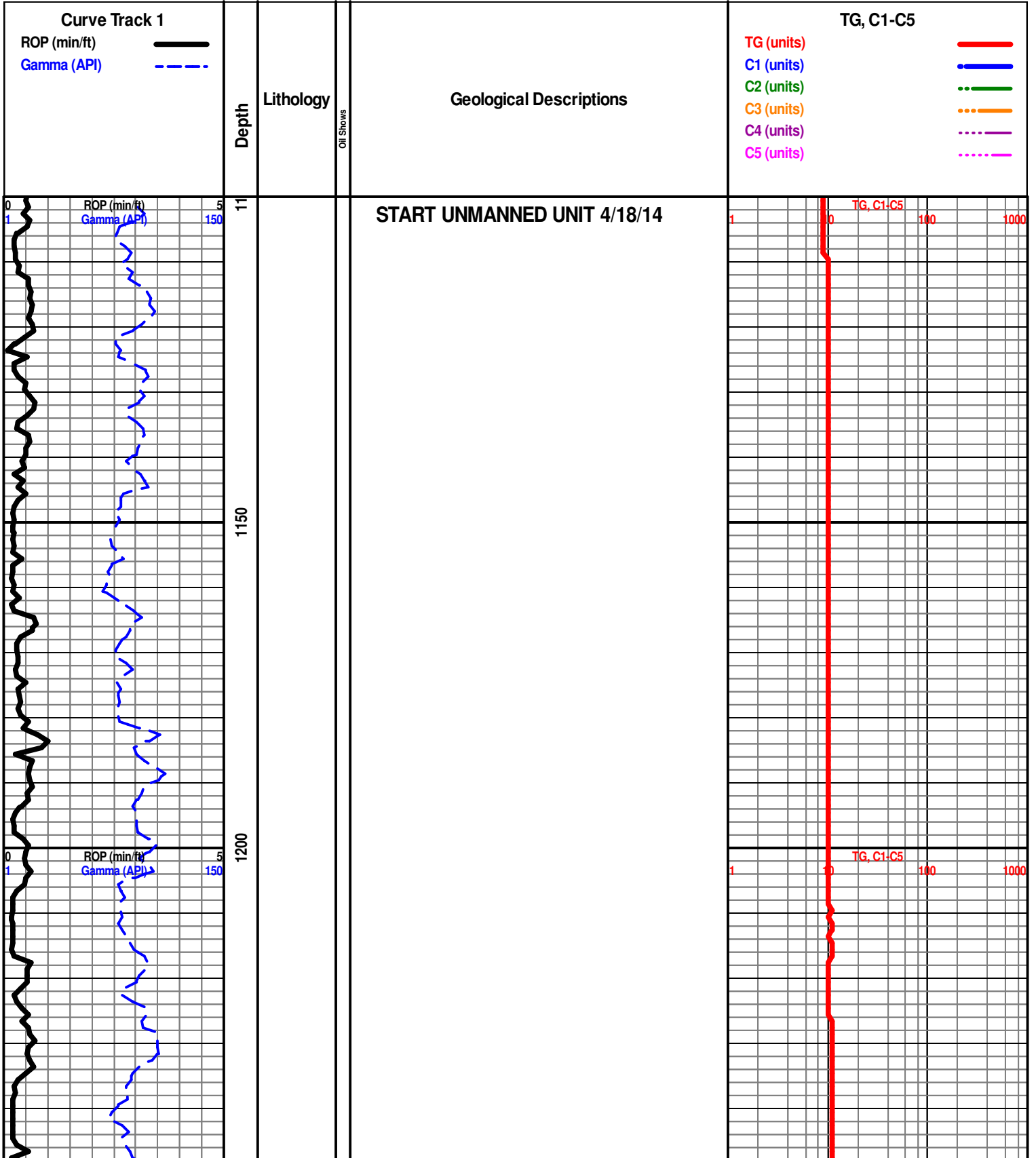
- E Even
- S Spotted
- Q Ques
- D Dead
- G Gas show

INTERVALS

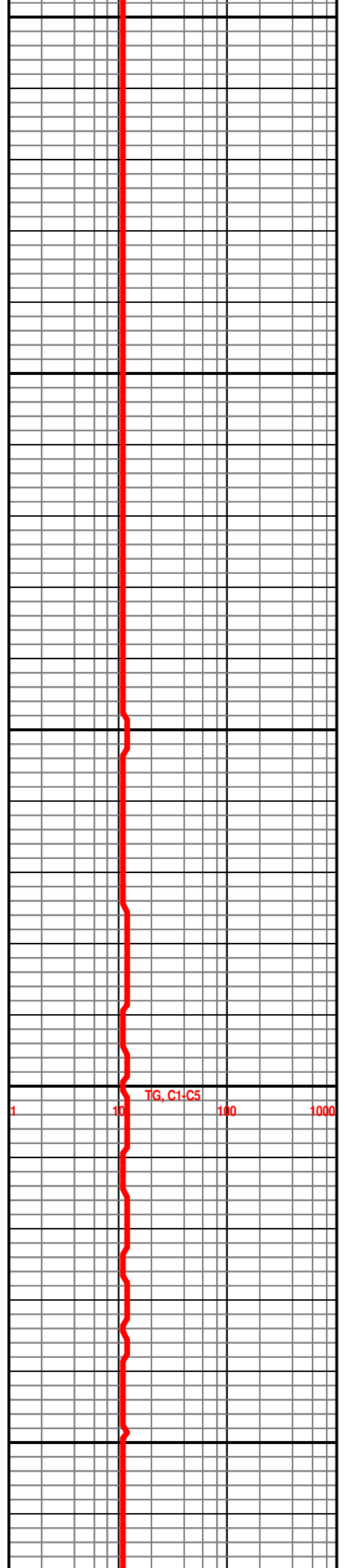
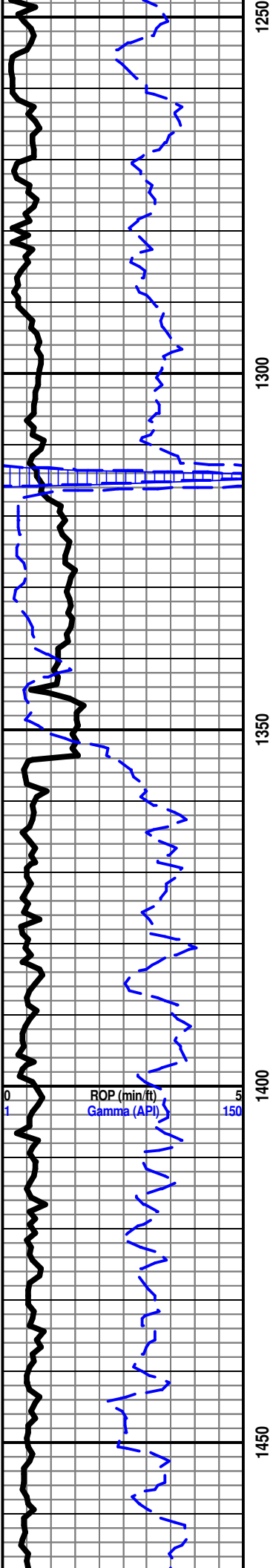
- C Core
- D Dst
- B Dst

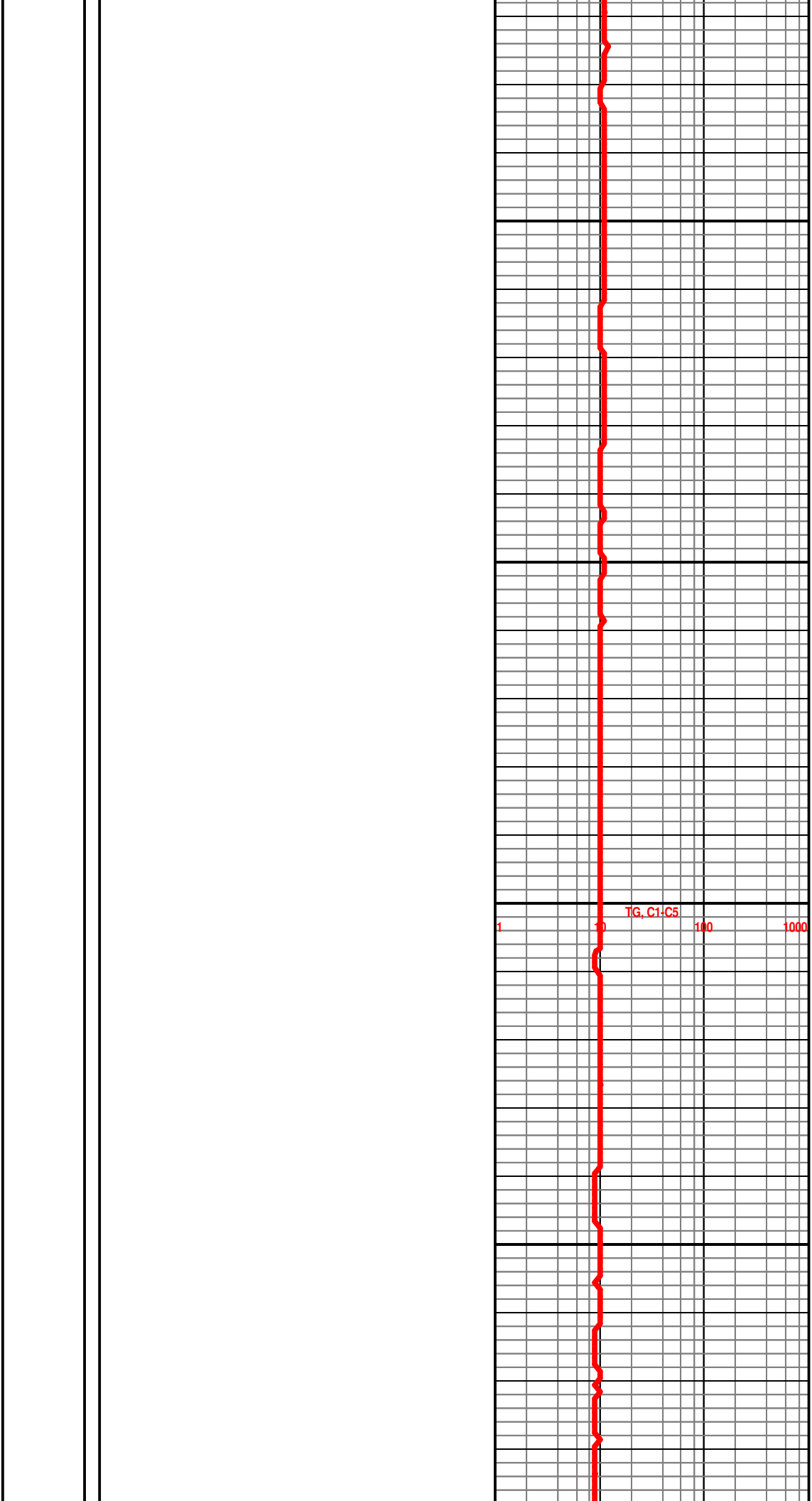
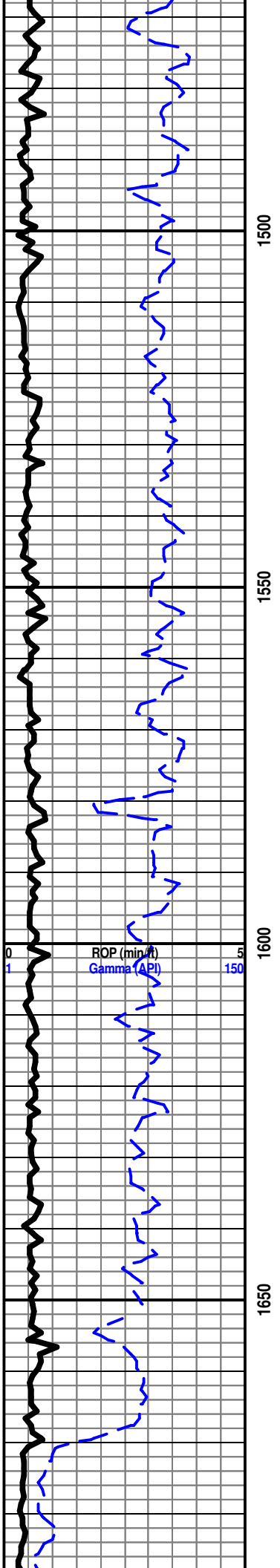
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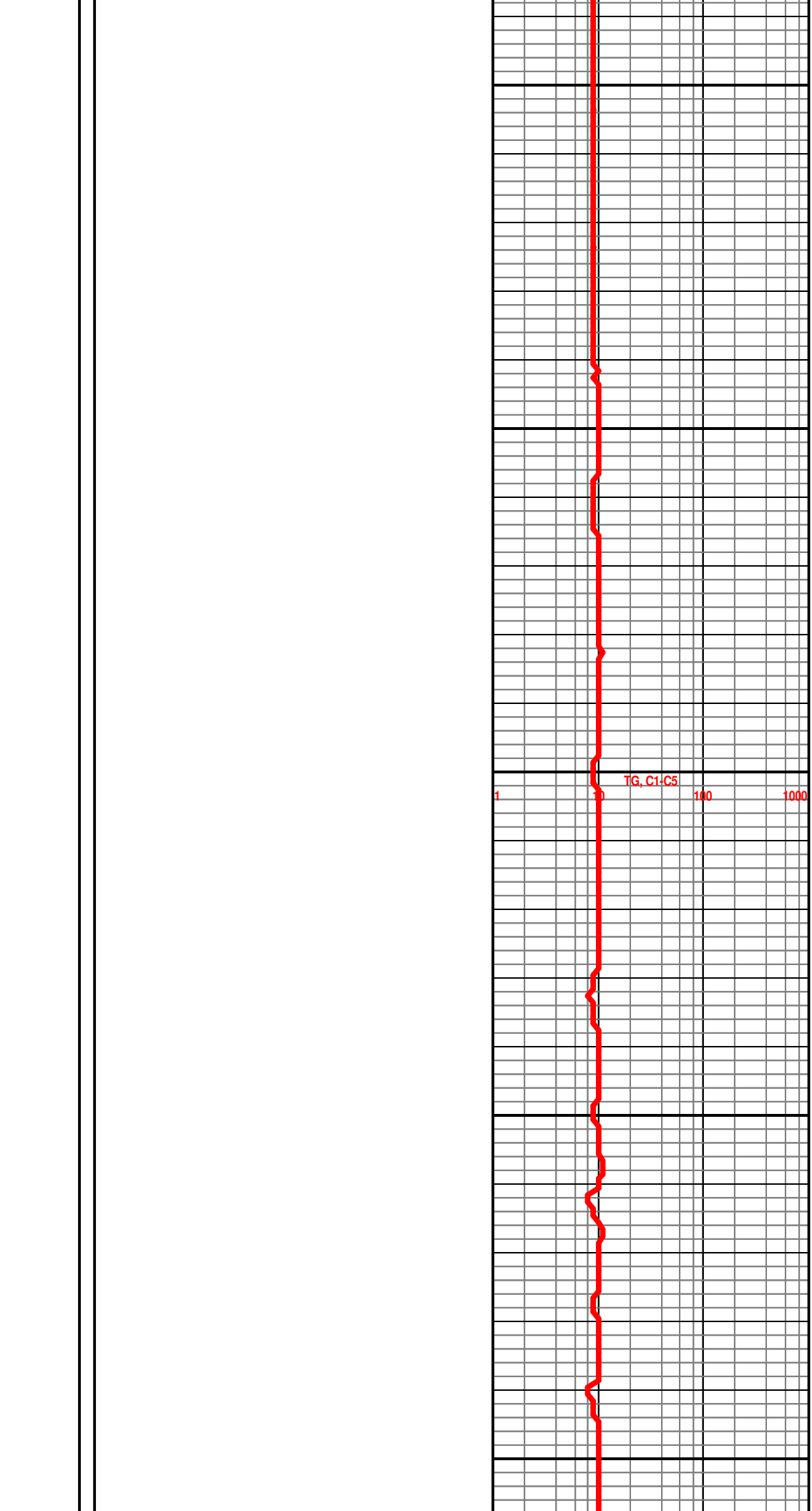
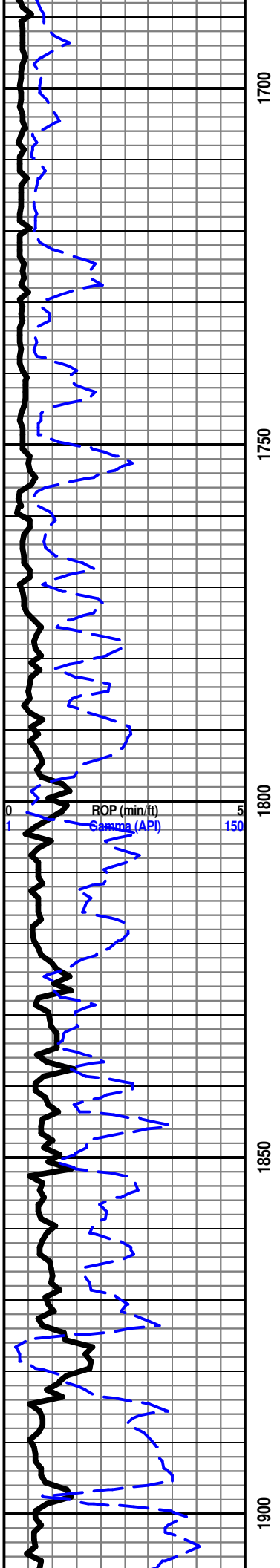
- R Rft
- S Sidewall

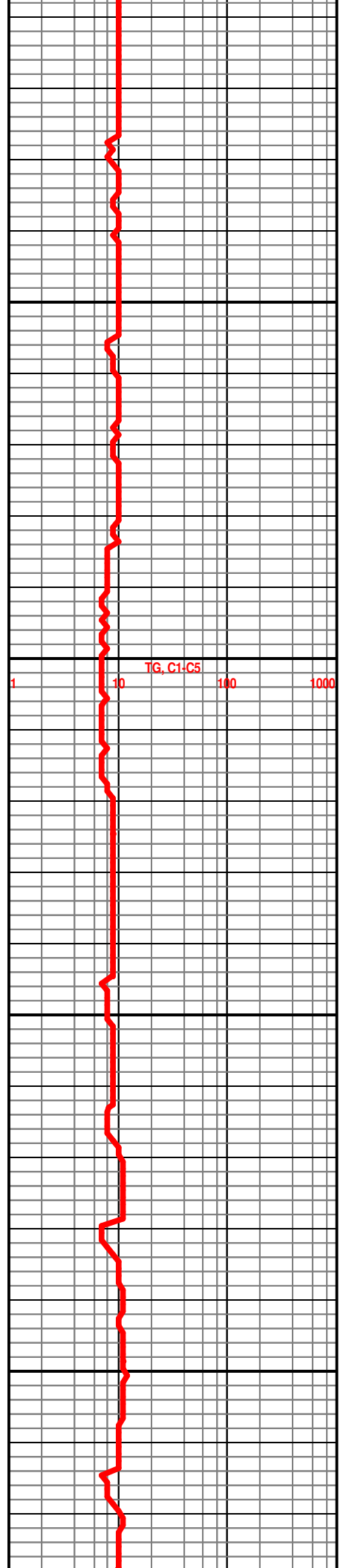
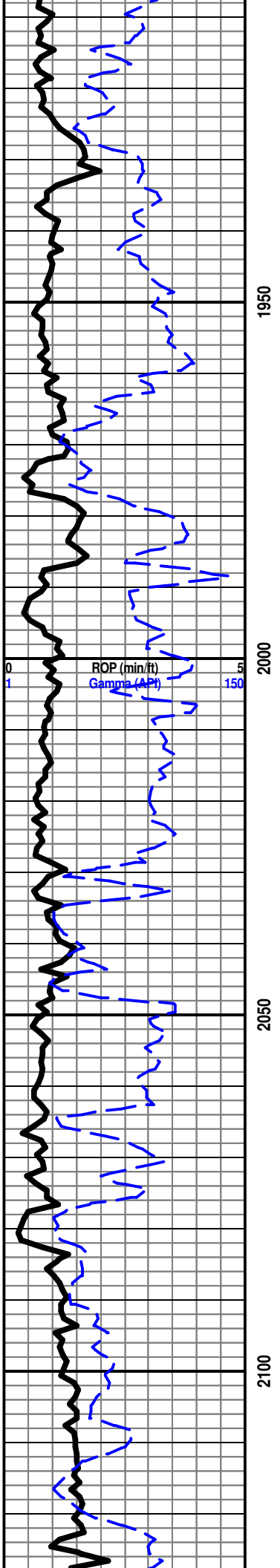


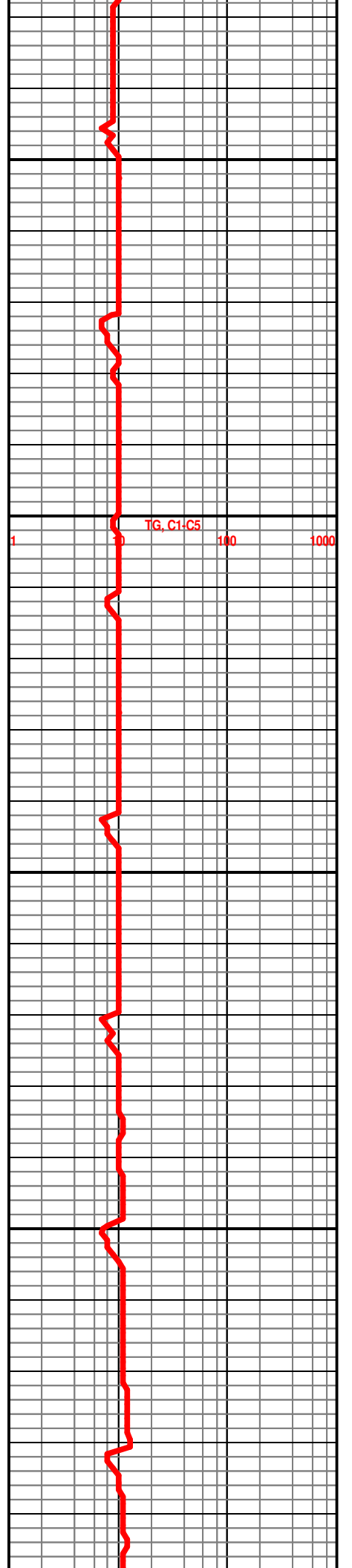
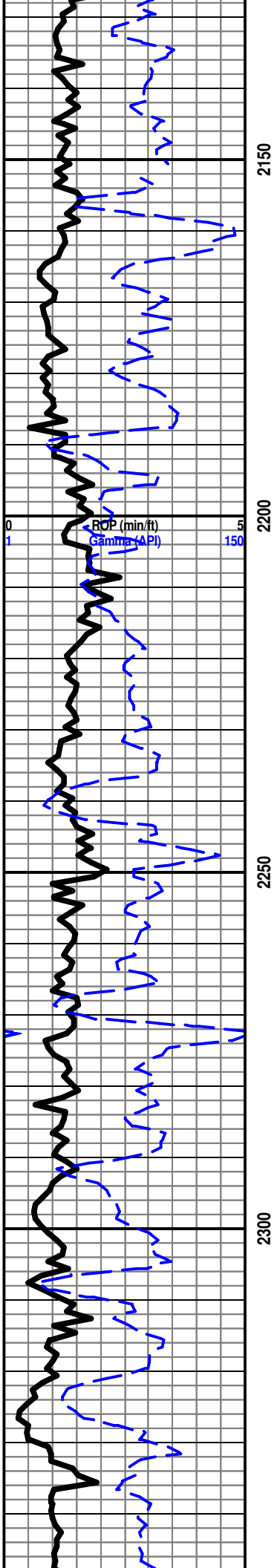
STONE CORRAL 1318' (743)

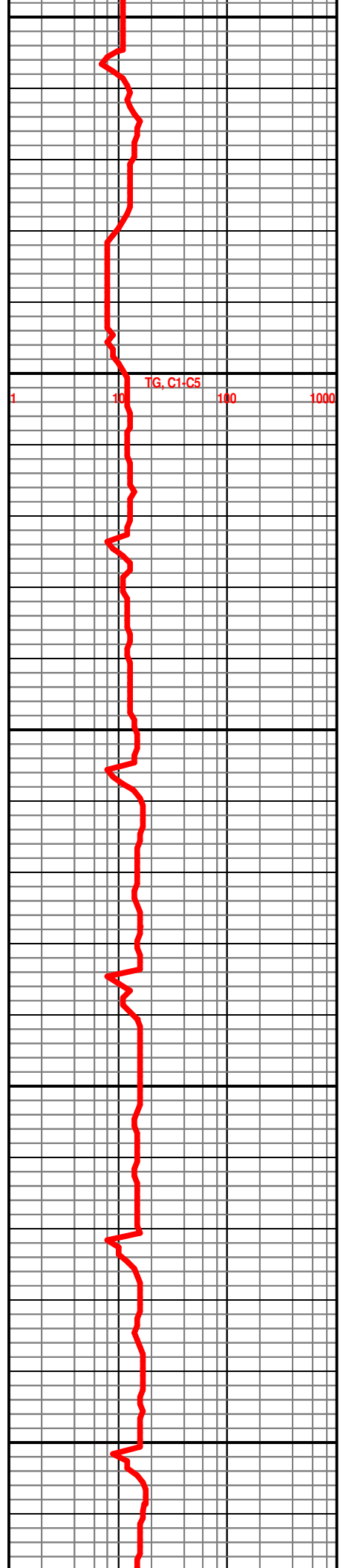
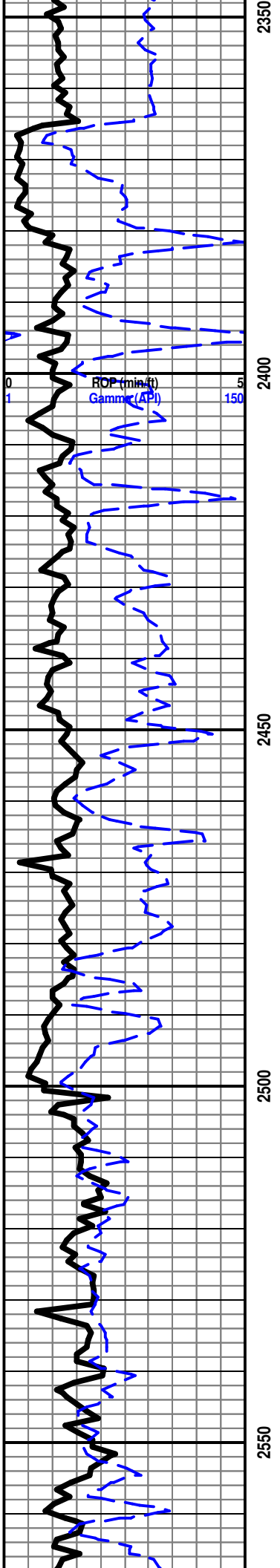


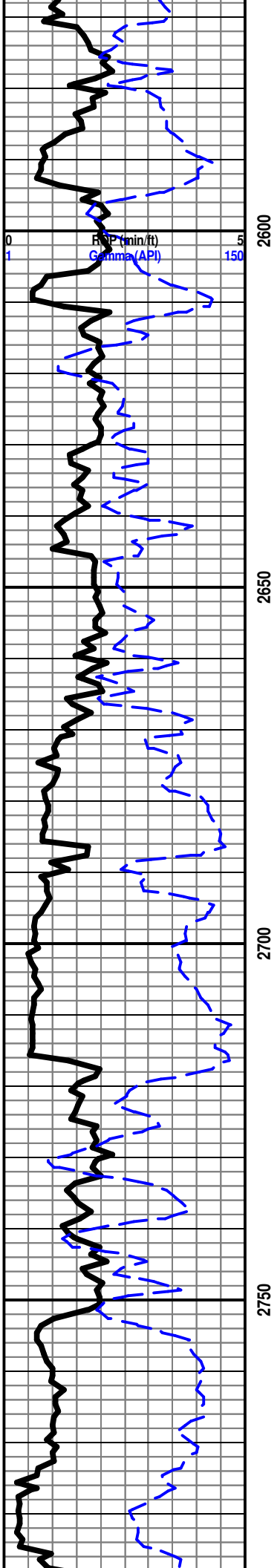




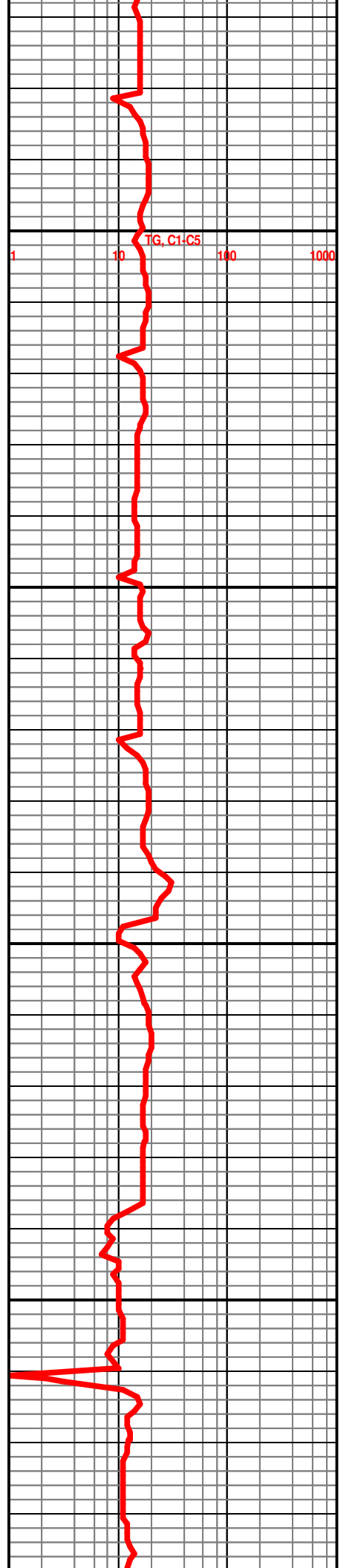




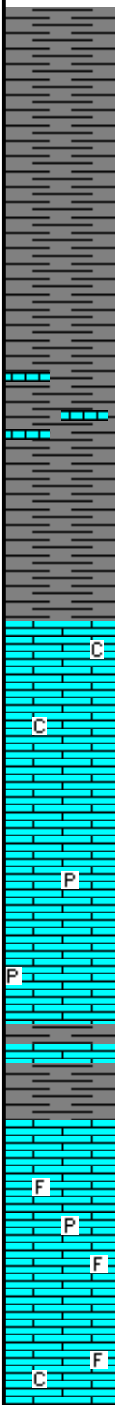
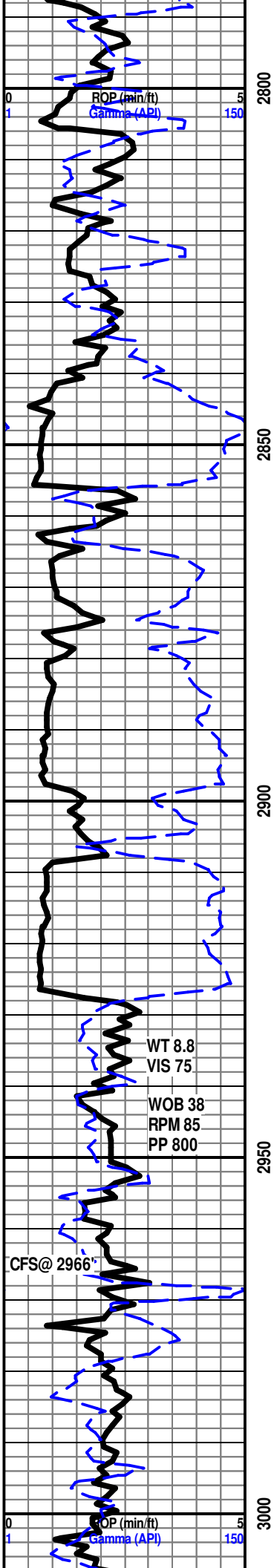




BASE ROOT SHALE 2716' (-655')



MUD DISPLACEMENT 2790'



ELMONT 2856' (-795')

START 24 HR MANNED UNIT 4/19/14

SH- MD GY TO GY, SFT TO GMMY, BLKY SLTY IP, V CALC, INTERBD LS THRU

SH - MD GY TO DRK GY, SFT TO FRM IP, SPLNTY TO BLKY, SMTH TO SLTY TXT IP

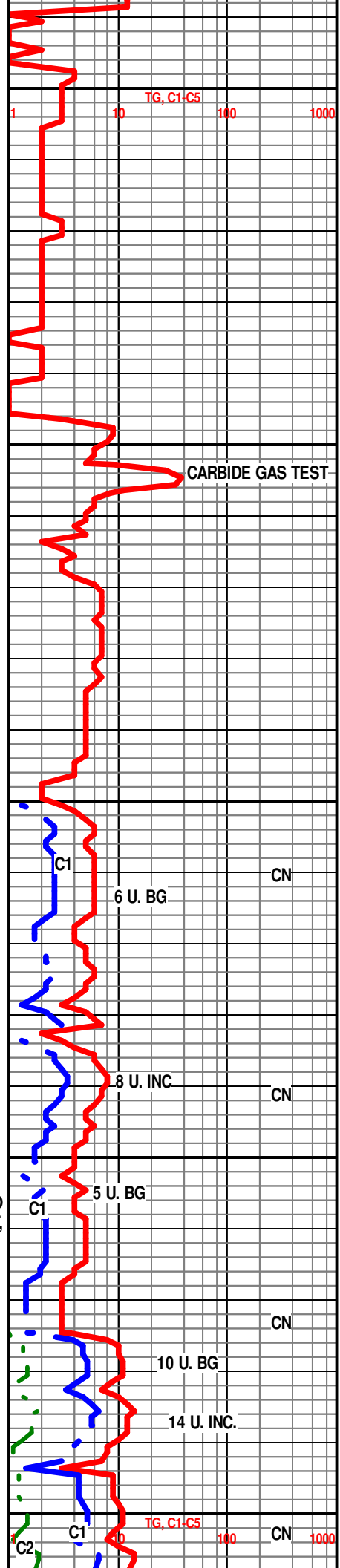
TOPEKA 2928' (-867')

LS - LT GY TO GY CRM IP, HD DNS, VF TO F-XLN, S-SUCRO IP, TR IMBD SH, TR CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

2956'-2959' LS - CRM TO LT GY(W/ TN TO LT TN OIL STN IN 40%), HD DNS TO BRTT, F TO VF-XLN, S-SUCRO, TR PYR IN TRAY, DLL YEL GLD FLO IN 60%, PR TO FR MICRO VUG POR IN 1%, TR PR INTER-XLN POR IP, GD FLSH CUT, GD SLOW STRM THRU, DRK TN LCH ON DISH, GD OIL ODOR

SGA TOPEKA 2978' (-917')

LS- CRM TO LT TN, HD DNS TO TR BRTT IP, F/MD-XLN, S-SUCRO IP, SCAT IMB FOSS FRGS IP, TR IMB DK GY SH, SLI TR IMB PYR IP, V DLL YEL MIN FLO IP, NO VIS POR, NO VIS CUT OR SHOW



WOB 38
RPM 85
PP 800

DST # 1
3048'-3076'

WT. 8.9
VIS 61

CFS@ 3076'

WT 9.2
VIS 51

WOB 38
RPM 85
PP 900

DST #2
3180-3216

CFS @ 3182'

WT 9.1
VIS 56

ROP (min)
Gamma Ray

CFS @ 3208'

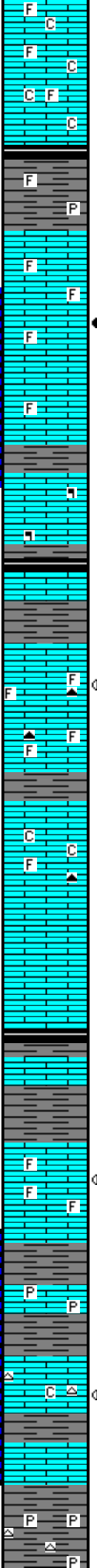
CFS @ 3216'

3050

3100

3150

3200



LS- TN TO LT TN CRM IP, HD DNS TO BRIT IP, MD/F-XLN, V S-CHLKY, ABDT SFT WHT CHLK THRU TRAY, ABDT IMB FOSS FRGS THRU, DLL YEL MIN FLO THRU, NO VIS POR, NO VIS CUT OR SHOW

LE COMPTON 3041' (-980')

SH- BLCK SFT CARB, W/ LT GY TO LT GRN MOTT, V SFT TO TR FRM IP, SPNLTY TO BLKY IP, SMTH TXT, SLI TR PYR, LT TR FREE FOSSIL IN TRAY

3051'-3054' LS- CRM TO LT TN OFF WHT IP (W/ DK TN TO BRWN OIL STN IN 80%), HD DNS TO BRIT, MD/F-XLN, RE-XLN, S-SUCRO, SCAT IMB FOSS FRGS THRU, DLL YEL GLD FLO IN 60%, BRT YEL GLD FLO IN 20%, V PR TO PR MICRO-VUG POR IN 3%, FR TO TR GD MICRO-VUG POR IN 1%, FR INTER-FOSS POR IP, EXCEL INST FLSH CUT, EXCEL SLW STRM STRM THRU, BRWN LCH ON DSH, V STRNG OIL ODOR

LS- OFF WHT TO CRM LT GY IP, HD DNS TO SLI TR BRIT IP, VF/F-XLN MTRX, RE-XLN IP, IMBD FOSS FRGS IP, TR FREE FOSS IN TRAY, V DLL YEL MIN FLO IP, NO VIS POR, NO VIS CUT OR SHOW

LS - LT GY TO TN IP, HD DNS, MD TO F-XLN, S-SUCRO S-CHLKY IP, TR SCAT IMBD HVY MIN IP, V DLL YEL MIN FLO IP, NO VIS POR, NO VIS CUT OR SHOW

3101'-3104' LS - LT TN TO TN(DUE TO OIL STN IN 60%), HD DNS, MD RE-XLN, S-SUCRO TO S-CHLKY, ABDT SM TO LRG FOSS FRAG THRU, HVY TR GY TO TN CHRT IN TRAY, DLL YEL GLD FLO IN 60%, SPTTD YEL GLD FLO IN 10%, V PR / PR TO TR FR MICRO VUG POR SCAT IN 3%, FR MICRO PP POR IP, FR FLSH CUT, FR SLOW STRM THRU, TN TO DRK TN LCH ON DISH, FR TO GD OIL ODOR

LS - OFF WHT TO CRM, HD DNS TO BRIT, F-XLN, S-CHLKY, TR IMBD FOSS FRAG THRU, TR IMBD SFT WHT CHLK, TR TN CHRT IN TRAY, DLL YEL FLO IN 30%, NO VIS POR, NO VIS CUT OR SHOW

LS - OFF WHT TO WHT CRM IP, HD DNS, F TO MD-XLN IP, S-SUCRO IP, TR IMBD CALC-XLS, DLL YEL MIN FLO IP, NO VIS POR, NO VIS CUT OR SHOW

HEEBNER 3152' (-1091')

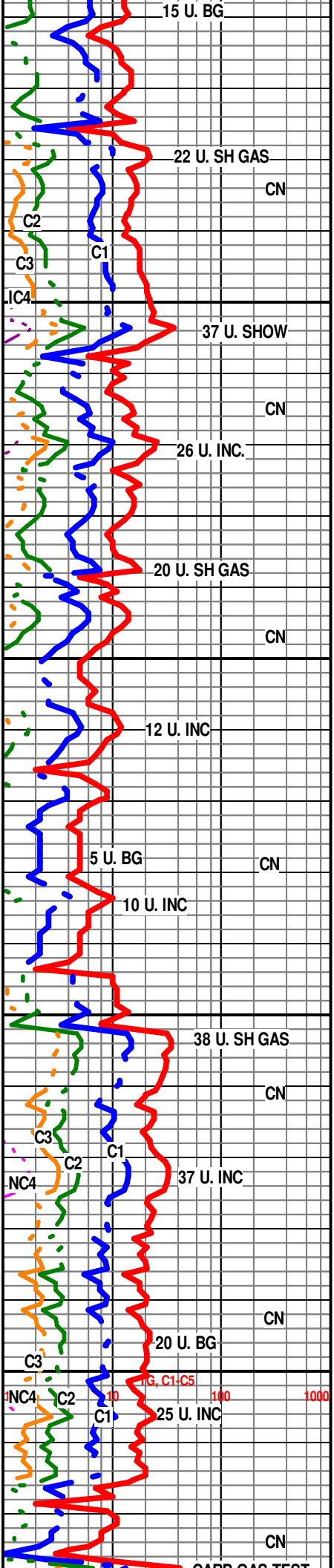
3171'-3174' LS - WHT TO OFF WHT CRM IP(W/ DRK TN TO TN OIL STN IN 20-30%) HD DNS TO BRIT, F/MD-XLN RE-XLN IP, S-CHLKY, IMBD SM FOSS FRAG THRU, DLL YEL GLD FLO IN 20%, V PR / PR MICRO VUG POR IN 2%, FR MICRO VUG POR IP, GD FLCH CUT, GD SLOW STRM THRU, TN LCH ON DISH, NO OIL ODOR

LANSING 3189' (-1128')

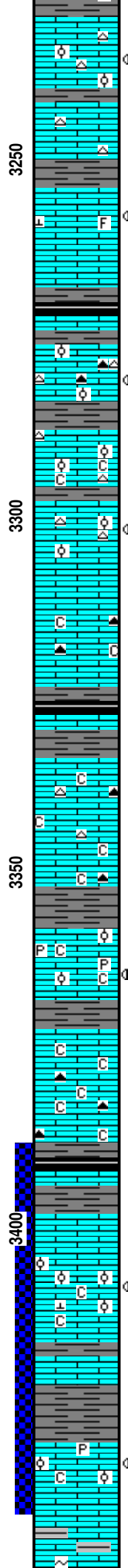
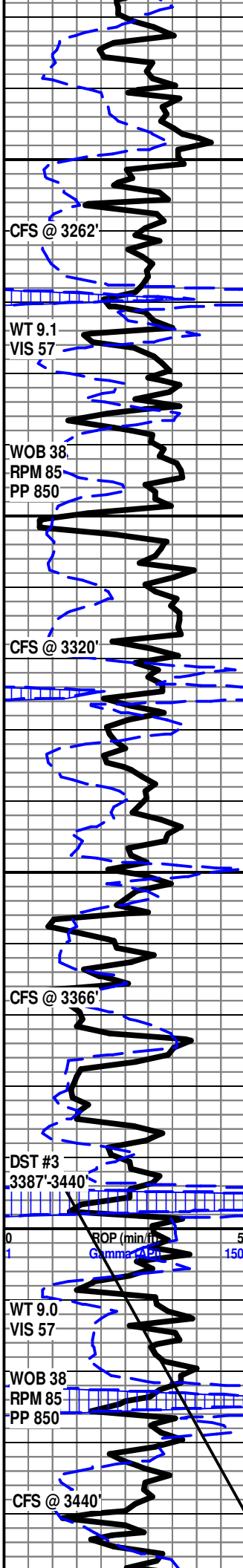
3201'-3204' LS - LT TN TO TN (DUE TO OIL STN IN 50%), HD DNS, MD TO F-XLN, RE-XLN IP, V TT SUCRO, S-CHLKY IP, TR CLR TO TN CHRT IN TRAY, YEL GLD TO BRT YEL GLD FLO IN 50%, PR TO TR FR INTER-XLN POR IN 4%, PR VUG POR IN 1%, GD TO EXCEL FLCH CUT, GD SLOW STRM IN 50%, LT TN LCH ON DISH, FR OIL ODOR, HVY TR FREE OIL IN TRAY

LS - CRM TO OFF WHT LT TN IP, HD DNS, F/MD-XLN, S-CHLKY IP, TR IMBD CALC-XLS IP, TR INTERBD GY SH, DLL YEL TO YEL MIN FLO IN 50%, NO VIS POR, NO VIS CUT OR SHOW

LANSING "D" 3230' (-1169')



CARB GAS TEST



3233'-3236' LS - OFF WHT TO CRM(LT TN OIL STN IN 20%), HD DNS, MD/F-XLN RE-XLN, S-SUCRO, TR SCAT IMBD OOL IP, HVY TR CLR & WHT CHRT IN TRAY, YEL TO YEL GLD FLO IN 60%, PR TO TR FR VUG POR IN 2%, TR FR INTER-XLN POR IN 1%, PR TO FR FLSH CUT, FR SLOW STRM IN 30-40%, TN LCH ON DISH, GD OIL ODOR

3256'-3258' LS - OFF WHT TO CRM(W/LT TN OIL STN IN 20-30%, HD DNS, MD-XLN RE-XLN IP, LT TR IMBD SM CALC-XLS, SLI TR IMBD V-SM FOSS FRAG IP, DLL YEL FLO IN 50%, BRI YEL GLD FLO IN 10%, TR V PR TO PR MICRO VUG POR IP, PR FLSH CUT, PR TO FR SLOW STRM IN 30%, V LT TN LCH ON DISH, NO OIL ODOR

LANSING "F" 3272' (-1211')

3278'-3281' LS - WHT TO OFF WHT(W/ DRK TN TO TN OIL STN IN 60%) HD DNS, MD-XLN RE-XLN MTRX, S-SUCRO IP, SCAT SM IMBD OOL THRU, HVY TR TN/ORNG CHRT IN TRAY, DLL YEL GLD FLO IN 50%, PR TO FR VUG POR IN 3%, TR PR INTER-XLN POR IN 1%, GD INST FLSH CUT, PR TO FR STRM IN 30%, TR V LT TN LCH ON DISH, GD OIL ODOR

LS - OFF WHT TO CRM WHT IP, HD DNS SLI TR BRTT IP, F/VF-XLN, S-CHLKY IP, HVY TR CLR & ORNG TRANS CHRT, IMBD SM OOL IP, DLL YEL MIN FLO IN 30%, NO VIS POR, NO VIS CUT OR SHOW

LS - OFF WHT TO WHT(W/ TR LT TN OIL STN IP), HD DNS TO BRTT, V/VF-XLN, S-SUCRO, V OOL-MOLD, TR IMBD OOL IP, HVY TR CLR CHRT IN TRAY, DLL YEL FLO IN 30%, BRI YEL GLD FLO IN 10%, GD TO FR OOL-MOLD POR IN 7%, FR VUG POR IN 1%, PR FLSH CUT, PR TO TR FR SLOW STRM IN 10%, NO LCH ON DISH, NO OIL ODOR

LS - OFF WHT TO CRM, HD DNS, VF/F-XLN, S-CHLKY, SCAT IMBD SM CALC-XLS IP, LT TR ORNG CHRT IN TRAY, V DLL YEL MIN FLO IN 10-20%, NO VIS POR, NO VIS CUT OR SHOW

LANSING "H" 3328' (-1267')

LS - OFF WHT TO CRM, HD DNS, MD/F-XLN, S-SUCRO, TR TRANS ORNG & CLR CHRT IN TRAY, HVY TR SFT WHT CHLK IN TRAY, DLL YEL MIN FLOW IN 30%, NO VIS POR, NO VIS CUT OR SHOW

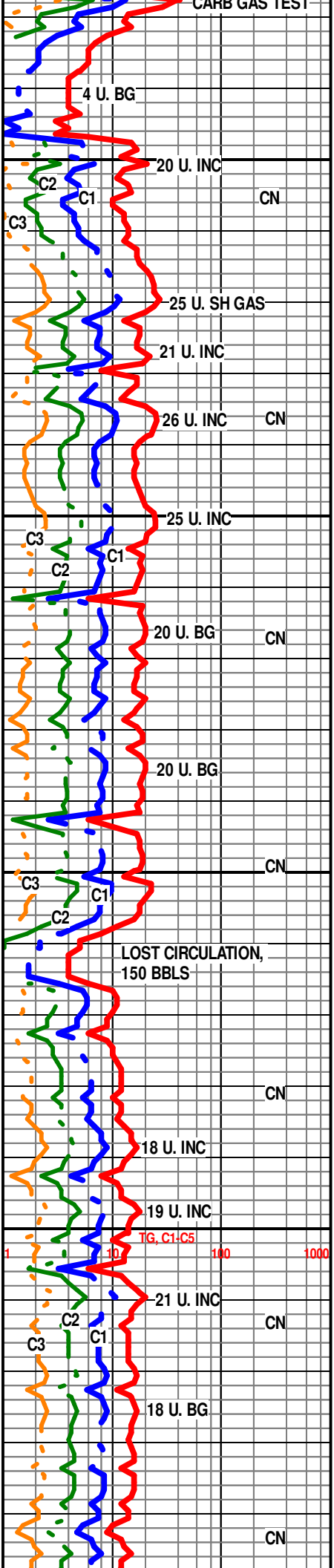
3362'-3365' LS - OFF WHT TO CRM IP(W/ TN TO DRK TN OIL STN IN 40%) HD DNS TO BRTT, MD-XLN, F-XLN IP, RE-XLN, S-CHLKY, IMBD SM OOL, SCAT IMBD DISS PYR, HVY TR SFT WHT CHLK IN TRAY, V DLL YEL FLO IN 40%, BRI YEL GLD FLO SCAT IN 10-15%, PR TO TR FR INTER-OOL POR IN 2%, TR FR MICRO VUG POR IP, GD FLSH CUT, V GD SLOW STRM THRU, TN TO DRK TN LCH ON DISH, FR OIL ODOR

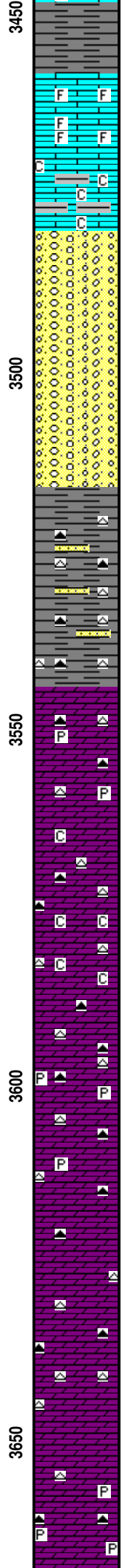
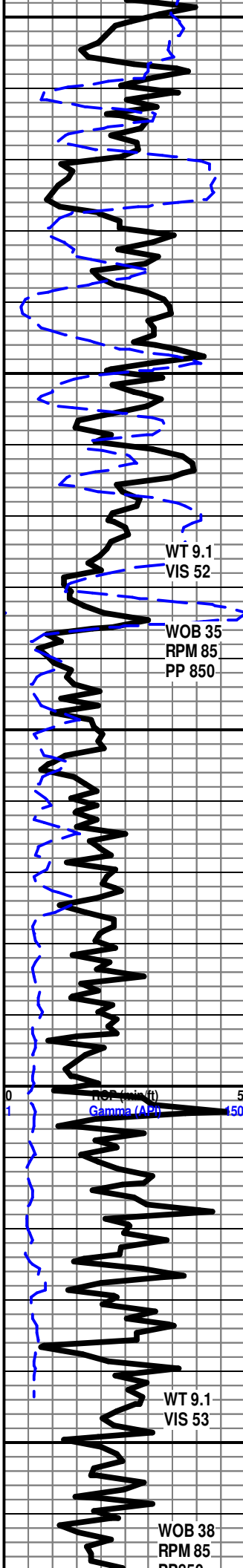
LS - WHT TO OFF WHT, HD DNS TO BRTT, F/VF-XLN, V S-CHLKY, ABDT SFT WHT CHLK THRU TRAY, LT TR TN CHRT, DLL YEL TO YEL MIN FLO THRU, NO VIS POR, NO VIS CUT OR SHOW

3406'-3409' LS - OFF WHT TO CRM(W/ TN TO DRK TN OIL STN IN 20-30%) HD DNS TO BRTT, V RE-XLN MTRX MD-XLN, ABDT IMBD MD/LRG OOL THRU, LT TR IMBD SFT WHT CHLK, SLI TR IMBD CALC-XLS, YEL GLD TO BRI YEL GLD FLO IN 60%, FR TO GD INTER-OOL POR IN 4-5%, PR INTER-OOL POR IN 1%, WK FLSH CUT, PR TO FR SLOW STRM IN 30%, TN LCH ON DISH, LT OIL ODOR

3431'-3433' LS - CRM TO OFF WHT(W/ BRWN & LIVE OIL STN IN 30-40%) MD/F-XLN, TR RE-XLN IP, S-CHLKY, SCAT IMBD OOL, LT TR SFT WHT CHLK IN TRAY, V SLI TR PYR, YEL GLD FLO IN 10%, V PR TO PR TR FR INTER-OOL POR SCAT IN 2-3%, EXCEL INST FLSH CUT, FR TO GD SLOW STRM IN 40%, LT TN LCH ON DISH, NO OIL ODOR

BKC 3449' (-1388')





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

LS- CRM TO OFF WHT, HD DNS, V/VF-XLN, IMBD RD SH IP, ABDTV SM IMBD FOSS FRAG THRU, V DLL YEL MIN FLO IP, NO VIS POR, NO VIS CUT OR SHOW

LS- WHT TO CRM, HD DNS TO BRIT, VF/F-XLN, INTERBD RD SH, HVY TR SFT WHT CHLK IN TRAY, V DLL YEL MIN FLOW, NO VIS POR, NO VIS CUT OR SHOW

CONGL - LS - WHT TO OFF WHT, HD DNS, VF-XLN, ABDT RD GRN & GY SH THRU, HVY TR SFT WHT CHLK THRU, LT TR WHT CHRT IN TRAY, DLL YEL MIN FLO IP, NO VIS POR, NO VIS CUT OR SHOW

SH - RD PRP GRN YEL, FRM TO SFT, GMMY IP, ABDT CLR & ORNG TRANS CHRT THRU, HVY TR WHT CHRT IN TRAY, LT TR SS CLSTRS

ARBUCKLE 3544' (-1483')

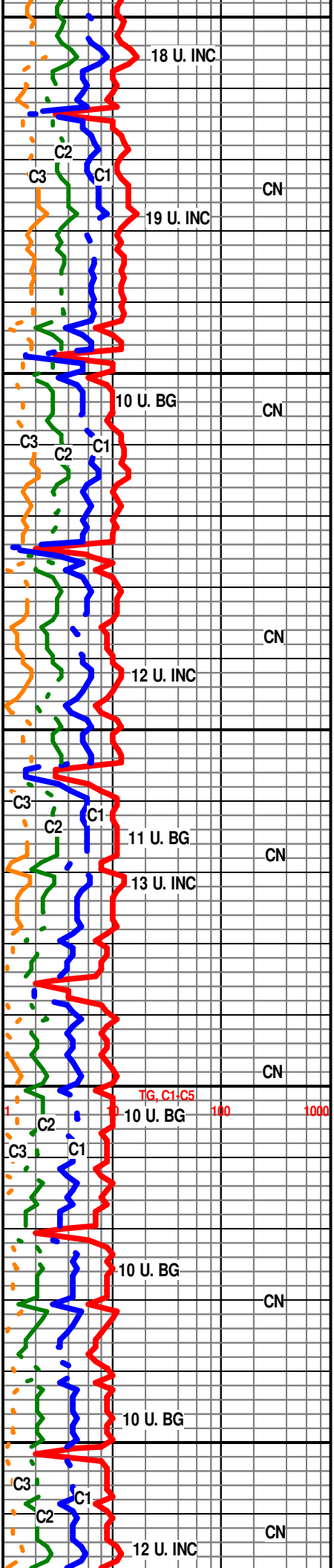
DOLO - CRM TO LT TN TN, HD DNS, BRIT IP, V RE-XLN CRS SUCRO MTRX, ABDT MD ANG TO S-RND DOLO GRNS, TR IMBD PYR IP, HVY TR CLR ORNG & WHT CHRT, DLL YEL TO YEL FLO IN 30%, FR TO GD INTER-GRN POR IN 7%, POSS FRAC POR, NO VIS CUT OR SHOW

DOLO- OFF WHT TO CRM, HD DNS TO TR BRIT IP, MD-XLN RE-XLN CRS SUCRO MTRX, ABDT IMBD SM TO MD S-ANG TO S-RND DOLO GRNS THRU, HVY TR CLR & ORNG CHRT THRU TRAY, LT TR CHLK IN TRAY, YEL GLD FLO THRU, PR TO FR INTER-GRN POR IN 1-2%, NO VIS CUT OR SHOW

DOLO- LT TN TO TN, HD DNS TO BRIT IP, F-XLN RE-XLN CRS SUCRO MTRX, ABDT IMBD V SM TO SM S-RND TO ANG IP DOLO GRNS, V SLI TR IMBD DISS PYR, LT TR WHT & ORNG CHRT IN TRAY, DLL YEL TO YEL MIN FLO IN 30-40%, PR TO FR TR GD INTER-GRN POR IN 6%, NO VIS CUT OR SHOW

DOLO- TN TO LT TN, DRK TN IP, HD DNS TO BRIT IP, VF TO F-XLN CRS SUCRO MTRX, RE-XLN IP, ABDT IMBD SM TO MD S-RND TO S-ANG DOLO GRNS, SCAT IMBD LRG S-RND CLR QRTZ GRNS, HVY TR WHT & ORNG CHRT IN TRAY, YEL MIN FLO IN 30%, V PR TO PR INTER-GRN POR IP, NO VIS CUT OR SHOW

DOLO - CRM TO LT TN TN, HD DNS TR BRIT IP, VF/F-XLN RE-XLN CRS SUCRO MTRX, ABDT IMBD SM S-ANG TO RND DOLO GRNS THRU, SCAT IMBD DISS PYR, HVY TR ORNG & PNK CHRT IN TRAY, V DLL YEL MIN FLO IN 20%, FR TO PR TR GD INTER-GRN POR IN 2-3%, NO VIS CUT



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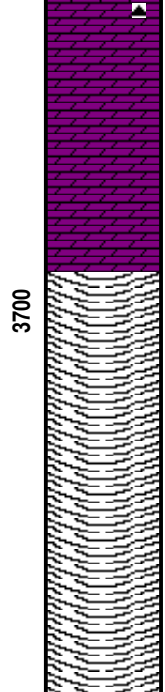
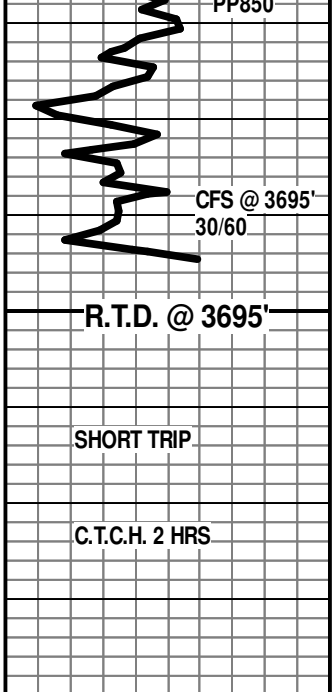
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FR TO PR TR GD INTER-GRN POR IN 2-3%, NO VIS CUT OR SHOW

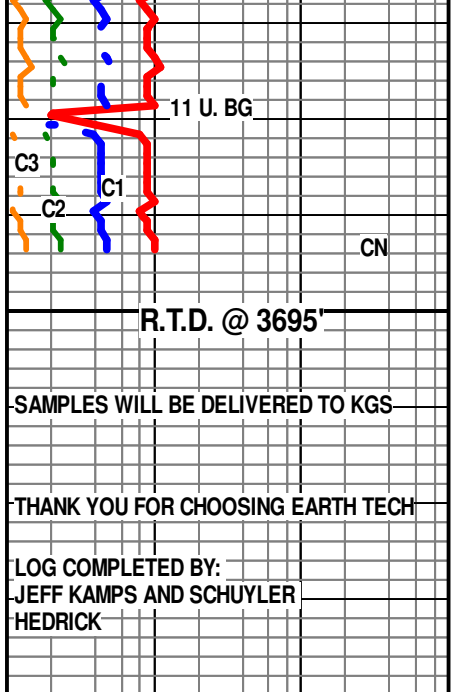
DOLO - OFF WHT TO WHT CRM IP, HD DNS TO BRTT IP, MD-XLN V RE-XLN CRS SUCRO MTRX, ABDT IMBD S-RND TO S-ANG IP DOLO GRNS, IMBD SM RND CLR QRTZ GRNS IP, YEL TO GLD YEL MIN FLO THRU, PR INTER-GRN POR IP, NO VIS CUT OR SHOW

R.T.D. @ 3:25 PM 4/23/2014

DROP SURVEY

T.O.F.L. @ 6:15 PM

WEATHERFORD / LIBERAL, KS.



R.T.D. @ 3695'

SAMPLES WILL BE DELIVERED TO KGS

THANK YOU FOR CHOOSING EARTH TECH

LOG COMPLETED BY:
JEFF KAMPS AND SCHUYLER
HEDRICK