



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1085683
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: _____

1085683

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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
--	--	---

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	KRAFT 1-29
Doc ID	1085683

All Electric Logs Run

DIL
MICRO
POR
SONIC
SPECTRAL

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	KRAFT 1-29
Doc ID	1085683

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	3197-3200	500 GAL 28% MCA W/ 3% MAS	3197-3200
4	3218-3222	500 GAL 28% MCA W/ 3% MAS	3218-3222
4	3228-3232	500 GAL 28% MCA W/ 3% MAS	3228-3232
4	3288-3294	500 GAL 28% MCA W/ 3% MAS	3288-3294
4	3333-3336		3333-3336
4	3352-3358	500 GAL 28% MCA W/ 3% MAS	3352-3358
4	3371-3373		3371-3373
4	3391-3394		3391-3394
4	3397-3400		3397-3400
4	3412-3416		3412-3416
4	3425-3430	500 GAL 28% MCA W/ 3% MAS	3425-3430

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

June 26, 2012

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

Re: ACO1
API 15-167-23778-00-00
KRAFT 1-29
SE/4 Sec.29-15S-15W
Russell 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,
CLAYTON CAMOZZI



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

Date: 3/7/2012
 Invoice # 5454

P.O.#:
 Due Date: 4/6/2012
 Division: Russell

Invoice

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

Reference:
 KRAFT 1-29

Description of Work:
 LONG SURFACE JOB

<input checked="" type="checkbox"/> DRLG <input type="checkbox"/> COMP <input type="checkbox"/> W/O <input type="checkbox"/> LOE <input type="checkbox"/> GG	
Account	2200.138
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	275	\$ 3,642.57	Yes				
Bulk Truck Matl-Material Service Charge	294	\$ 638.40	No				
Calcium Chloride	13	\$ 531.54	Yes				
Pump Truck Mileage-Job to Nearest Camp	21	\$ 227.54	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	21	\$ 133.15	No				
8 5/8" Top Rubber Plug	1	\$ 115.09	Yes				
Premium Gel (Bentonite)	6	\$ 106.05	Yes				

Invoice Terms:

Net 30

	SubTotal:	\$	6,385.74
	Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:	\$	(957.86)
<hr/>			
	SubTotal for Taxable Items:	\$	3,735.97
	SubTotal for Non-Taxable Items:	\$	1,691.91
<hr/>			
	Total:	\$	5,427.88
	Tax:	\$	310.09
<hr/>			
	Amount Due:	\$	5,737.96
	Applied Payments:		
	Balance Due:	\$	5,737.96

8.30% Russell 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

MAR 15 2012

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

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 5454

Date	3-3-12	Sec.	29	Twp.	15	Range	15	County	Russell	State	Ks	On Location		Finish	5:45 AM
Lease	Kraft		Well No.	1-29		Location									
Contractor										Owner					
Ual Energy #6										1/2 E N1/4					
Type Job	Surface					To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.									
Hole Size	12 1/4"		T.D.	609'		Charge To									
Csg.	8 5/8"		Depth	608.67'		Sam Gary Jr & Associates									
Tbg. Size			Depth			Street									
Tool			Depth			City									
Cement Left in Csg.	20'		Shoe Joint	20'		State									
Meas Line			Displace	3 1/2 BLS		The above was done to satisfaction and supervision of owner agent or contractor.									
										Cement Amount Ordered					
										275 sx Common 3% Gel					

EQUIPMENT

Pumptrk	15	No.	Cement												
			Helper	Cisco											
Bulktrk	10	No.	Driver	Levy											
			Driver												
Bulktrk	p.u.	No.	Driver	Rid											
			Driver												

JOB SERVICES & REMARKS

Remarks:	Cement did Circulate.														
Rat Hole															
Mouse Hole															
Centralizers															
Baskets															
D/V or Port Collar															
	Sand														
	Handling 294														
	Mileage														

FLOAT EQUIPMENT

	Guide Shoe														
	Centralizer														
	Baskets														
	AFU Inserts														
	Float Shoe														
	Latch Down														
	1 - Rubber plug														
	Pumptrk Charge Long Surface														
	Mileage 21														

Tax

Discount

Total Charge

X Signature *Randy D. [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: 3/11/2012
 Invoice # 643
 P.O.#:
 Due Date: 4/10/2012
 Division: Russell

Invoice

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

Reference:
 KRAFT 1-29

Description of Work:
 PROD LONG STRING

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		\$ 937.80	No	Salt (Fine)	19	\$272.41	Yes
Common-Class A	225	\$ 2,819.19	Yes	Latch Down Plug & Baffle, 5 1/2"	1	\$230.05	Yes
Cement Port Collar, 5 1/2"	1	\$ 2,567.57	Yes	Pump Truck Mileage-Job to Nearest Camp	20	\$204.99	No
Gilsonite	1057	\$ 1,628.35	Yes	Flo Seal	56	\$115.03	Yes
5 1/2" Basket	5	\$ 1,181.08	Yes	Bulk Truck Mileage-Job to Nearest Bulk Plant	20	\$119.96	No
CFL 117	176	\$ 1,113.46	Yes	KCL	2	\$61.33	Yes
5 1/2" Turbolizer	10	\$ 595.68	Yes				
Bulk Truck Matl-Material Service Charge	254	\$ 521.73	No				
CD-110	117	\$ 480.65	Yes				
Defoamer A or CAF-38	50	\$ 359.46	Yes				
Auto Fill Float Shoe, 5 1/2"	1	\$ 314.27	Yes				

Invoice Terms:

Net 30

	SubTotal:	\$ 13,523.01
	Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice:	\$ (2,028.45)
<hr/>		
	SubTotal for Taxable Items:	\$ 9,977.75
	SubTotal for Non-Taxable Items:	\$ 1,516.81
<hr/>		
	Total:	\$ 11,494.56
	Tax:	\$ 828.15
	Amount Due:	\$ 12,322.71
	Applied Payments:	
	Balance Due:	\$ 12,322.71

8.30% Russell 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

MAR 15 2012

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

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 643

Date	3-8-12	Sec.	29	Twp.	15	Range	15	County	Russell	State	KS	On Location		Finish	10:00 pm
Lease	Kraft	Well No.	1-29			Location									

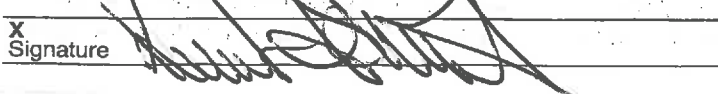
Contractor	Val #	Owner	To Quality Oilwell Cementing, Inc.
Type Job	Production String	You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Hole Size	7/8	T.D.	3600
Csg.	5/2	Depth	3595
Tbg. Size		Depth	
Tool	Port Collar	Depth	982
Cement Left in Csg.	42.26	Shoe Joint	42.26
Meas Line		Displace	84.2 BC
		Charge To	Sam Carl Jr & Assoc.
		Street	
		City	State
The above was done to satisfaction and supervision of owner agent or contractor.			
		Cement Amount Ordered	225 B Proc 10% salt 5% Gelant 14770

EQUIPMENT			
Pumptrk	5	No. Cementer/Helper	Craig
Bulktrk		No. Driver	Brett
Bulktrk	14	No. Driver	Doug

JOB SERVICES & REMARKS	
Remarks:	Common 500 gal mud clean 200 KCL
Rat Hole	30 SIC
Mouse Hole	15 SIC
Centralizers	Calcium CD110-117A
Baskets	Hulls KCL 2 gal
D/V or Port Collar	Salt 19
	Flowseal 56#
	Kol-Seal 1057#
	Mud CLR 48 500 gal
	CFL-117 or CD110 CAF 38 50#
	Sand 176#
	Handling 254
	Mileage

FLOAT EQUIPMENT	
Guide Shoe	
Centralizer	2/8 Turbul. 2012S
Baskets	5
AFU Inserts	
Float Shoe	1
Latch Down	1
	Port Collar

Pumptrk Charge	prod Long String
Mileage	20
Tax	
Discount	
Total Charge	

X Signature 



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr. and Associates, Inc.

29-15-15 Russell, Ks

1515 Wynkoop St. Ste 700
Denver, CO 80202

Kraft 1-29

Job Ticket: 36064

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2012.03.06 @ 09:10:29

GENERAL INFORMATION:

Formation: **LKC "A-D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:53:59

Time Test Ended: 16:13:59

Test Type: Conventional Bottom Hole (Initial)

Tester: Brian Fairbank

Unit No: 41

Interval: 3166.00 ft (KB) To 3234.00 ft (KB) (TVD)

Reference Elevations: 1934.00 ft (KB)

Total Depth: 3234.00 ft (KB) (TVD)

1924.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8734 Outside

Press @ Run Depth: 59.55 psig @ 3168.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.03.06

End Date:

2012.03.06

Last Calib.:

1899.12.30

Start Time: 09:10:30

End Time:

16:13:59

Time On Btm:

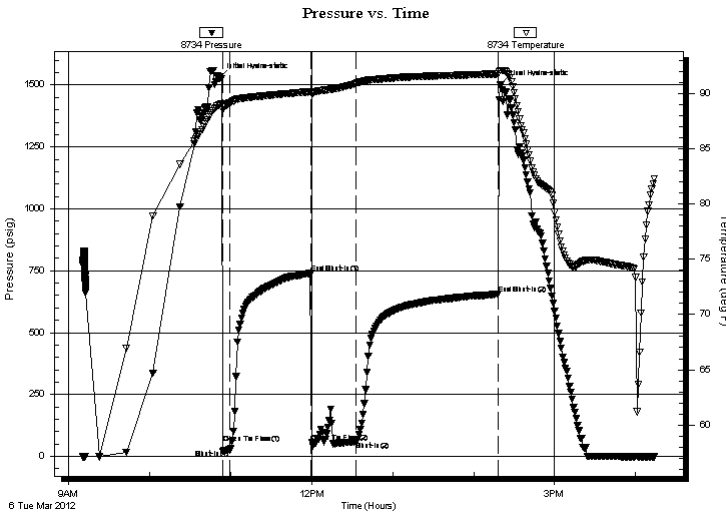
2012.03.06 @ 10:51:29

Time Off Btm:

2012.03.06 @ 14:19:59

TEST COMMENT: 5 - IFP - weak to fair blow 1/2" - 4"
60 - ISI - no blow back
35 - FFP - BOB 10 min
105 - FSI - sur blow back - died 7 min

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1528.51	88.96	Initial Hydro-static
3	20.27	88.51	Open To Flow (1)
8	26.41	89.16	Shut-In(1)
68	739.35	90.16	End Shut-In(1)
69	54.98	90.02	Open To Flow (2)
102	59.55	90.93	Shut-In(2)
207	655.68	91.78	End Shut-In(2)
209	1500.77	92.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	GOCM 20%G, 15%O, 65%M	0.91
35.00	SOCM 5%O, 95%M	0.49

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. and Associates, Inc.

29-15-15 Russell, Ks

1515 Wynkoop St. Ste 700
Denver, CO 80202

Kraft 1-29

Job Ticket: 36064

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2012.03.06 @ 09:10:29

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:

ppm

Viscosity: 66.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.80 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
65.00	GOCM 20%G, 15%O, 65%M	0.912
35.00	SOCM 5%O, 95%M	0.491

Total Length: 100.00 ft Total Volume: 1.403 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

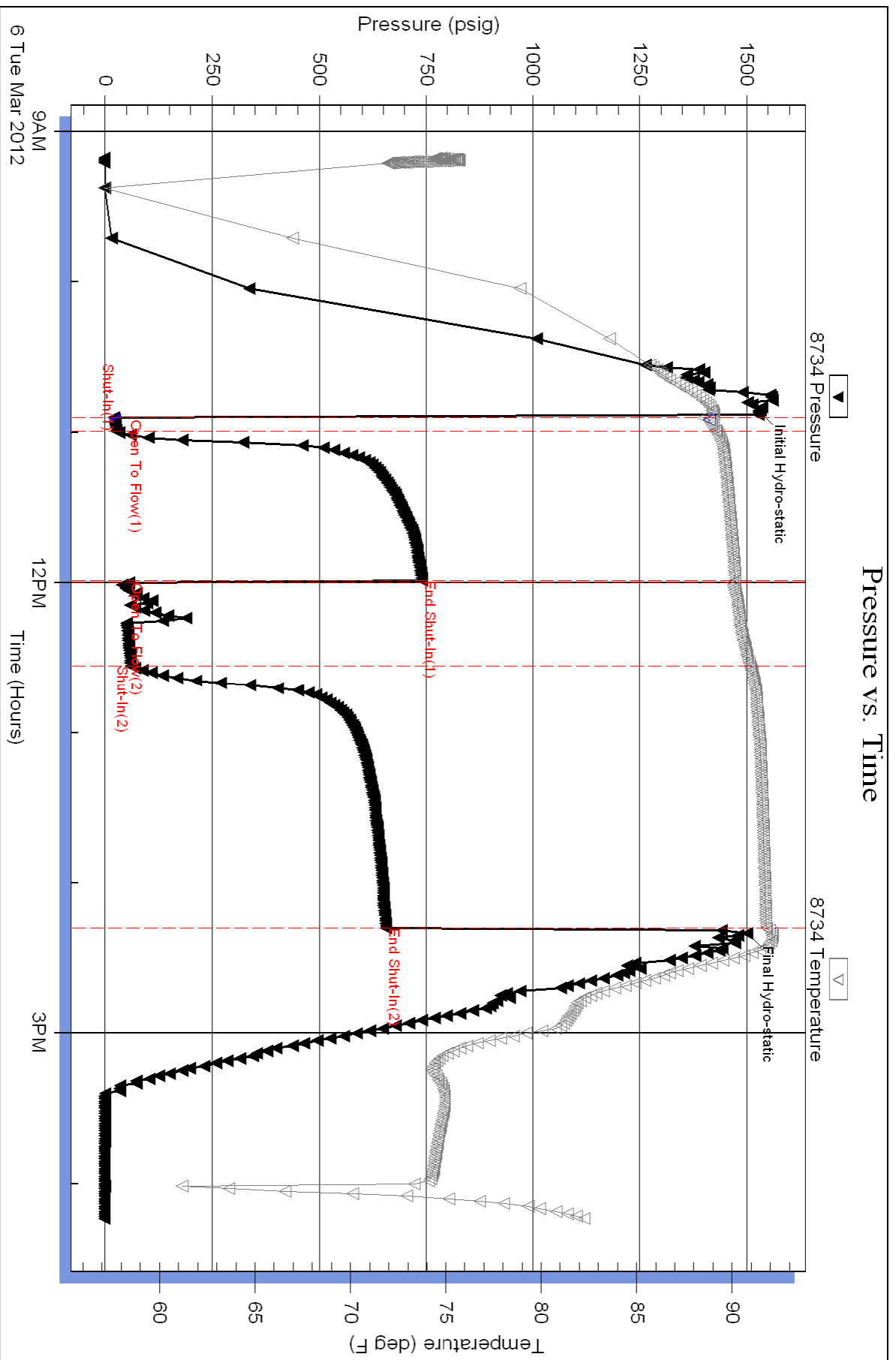
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 2000 ml G, 1600 ml O, 400 ml M, 310 LBS

Pressure vs. Time



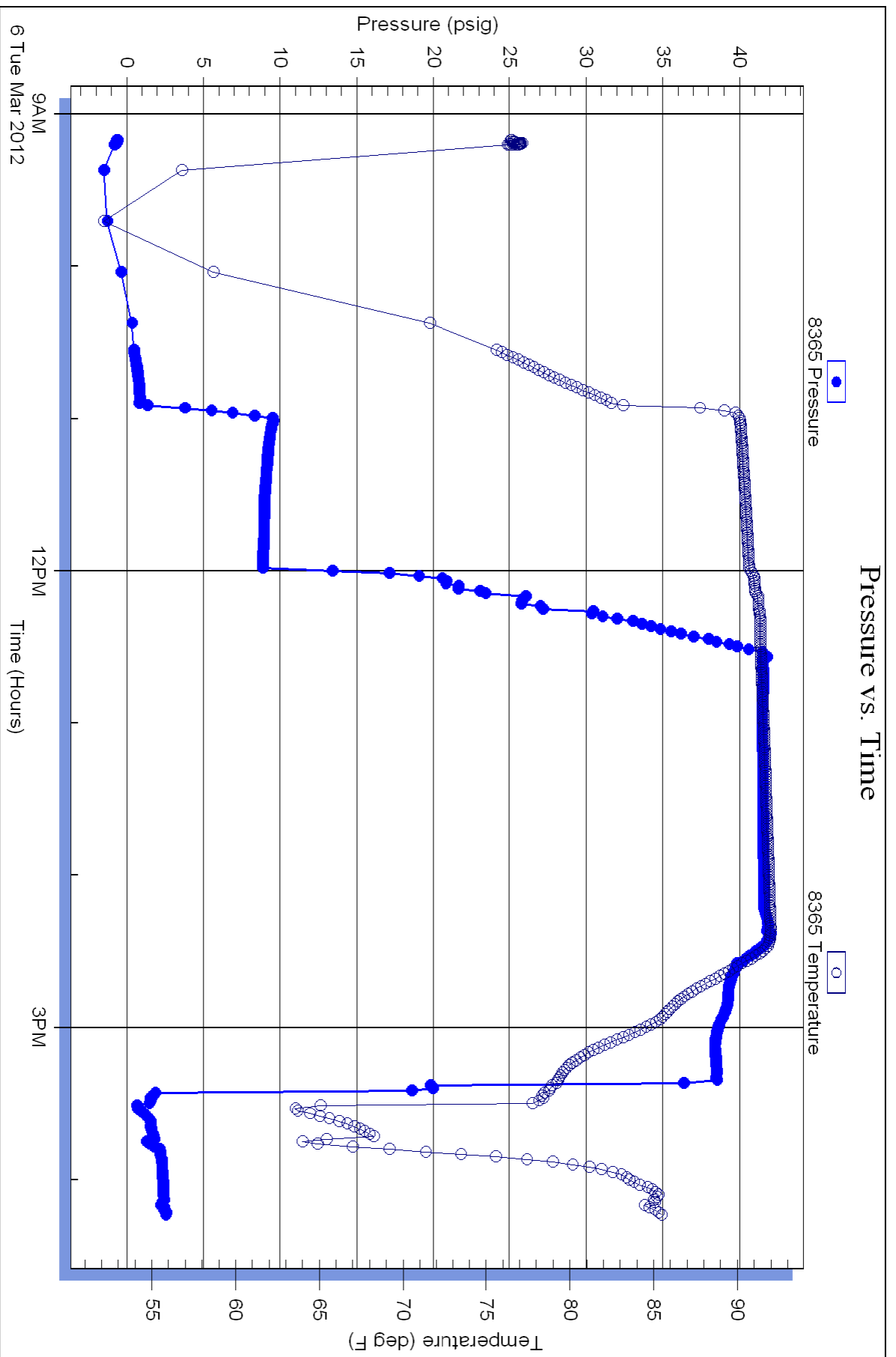
Serial #: 8365

Fluid

Samuel Gary Jr. and Associates, Inc.

Kraft-1-29

DST Test Number: 1





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. and Associates, Inc.

29-15-15 Russell, KS

1515 Wynkoop St. Ste 700
Denver, CO 80202

Kraft 1-29

Job Ticket: 46292

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2012.03.07 @ 08:22:00

GENERAL INFORMATION:

Formation: **KC "H,I,J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:56:00
 Time Test Ended: 15:20:00
 Interval: **3320.00 ft (KB) To 3385.00 ft (KB) (TVD)**
 Total Depth: 3385.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Cody Bloedorn
 Unit No: 41
 Reference Elevations: 1934.00 ft (KB)
 1924.00 ft (CF)
 KB to GR/CF: 10.00 ft

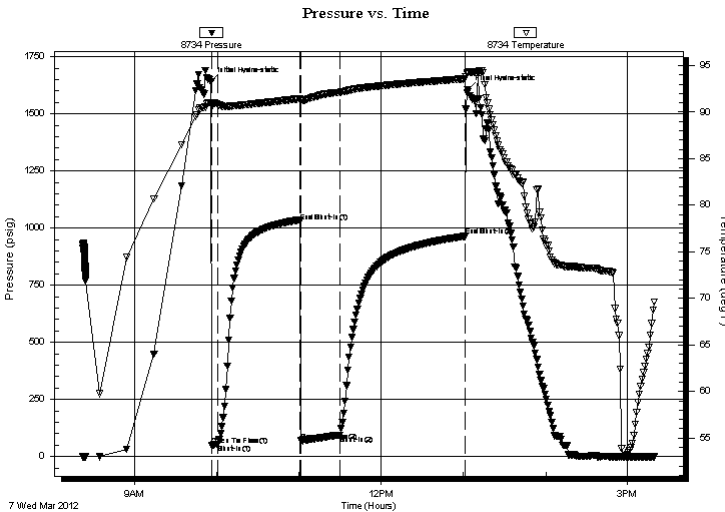
Serial #: 8734

Outside

Press @ Run Depth: 94.19 psig @ 3355.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.03.07 End Date: 2012.03.07 Last Calib.: 2012.03.07
 Start Time: 08:22:01 End Time: 15:20:00 Time On Btm: 2012.03.07 @ 09:55:30
 Time Off Btm: 2012.03.07 @ 13:03:00

TEST COMMENT: 05 - IF- B.O.B. in 4 Min.
 60 - IS- No blow back
 30 - FF- B.O.B. instantly
 90 - FS- 1/2" blow , died at 37 Min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1642.96	91.01	Initial Hydro-static
1	47.39	90.66	Open To Flow (1)
5	54.75	90.82	Shut-In(1)
65	1028.98	91.43	End Shut-In(1)
66	67.86	91.21	Open To Flow (2)
94	94.19	92.13	Shut-In(2)
186	964.46	93.59	End Shut-In(2)
188	1605.99	94.26	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	GHOCM, 10%M, 40%O, 50%G	0.87
62.00	GO, 40%G, 60%O	0.87
40.00	GOCM, 5%G, 15%O, 80%M	0.56
0.00	744' of G.I.P.	0.00

* 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. and Associates, Inc.

29-15-15 Russell, KS

1515 Wynkoop St. Ste 700
Denver, CO 80202

Kraft 1-29

Job Ticket: 46292

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2012.03.07 @ 08:22:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

39 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 66.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.80 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
62.00	GHOCM, 10%M, 40%O, 50%G	0.870
62.00	GO, 40%G, 60%O	0.870
40.00	GOCM, 5%G, 15%O, 80%M	0.561
0.00	744' of G.I.P.	0.000

Total Length: 164.00 ft Total Volume: 2.301 bbl

Num Fluid Samples: 0

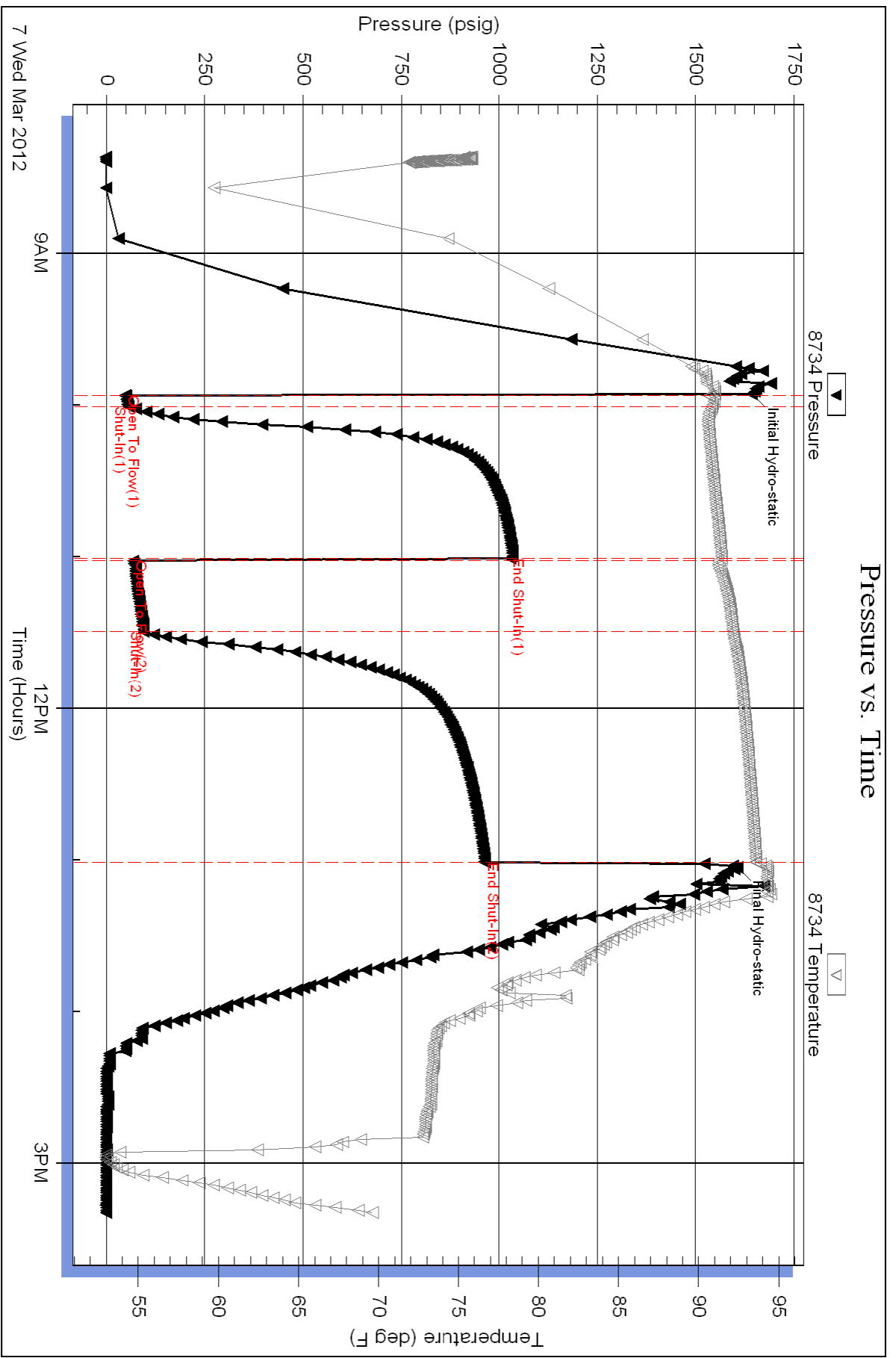
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler: 3000 ml Oil, PSI = 550, Gravity: 39 @ 60 Degrees = 39



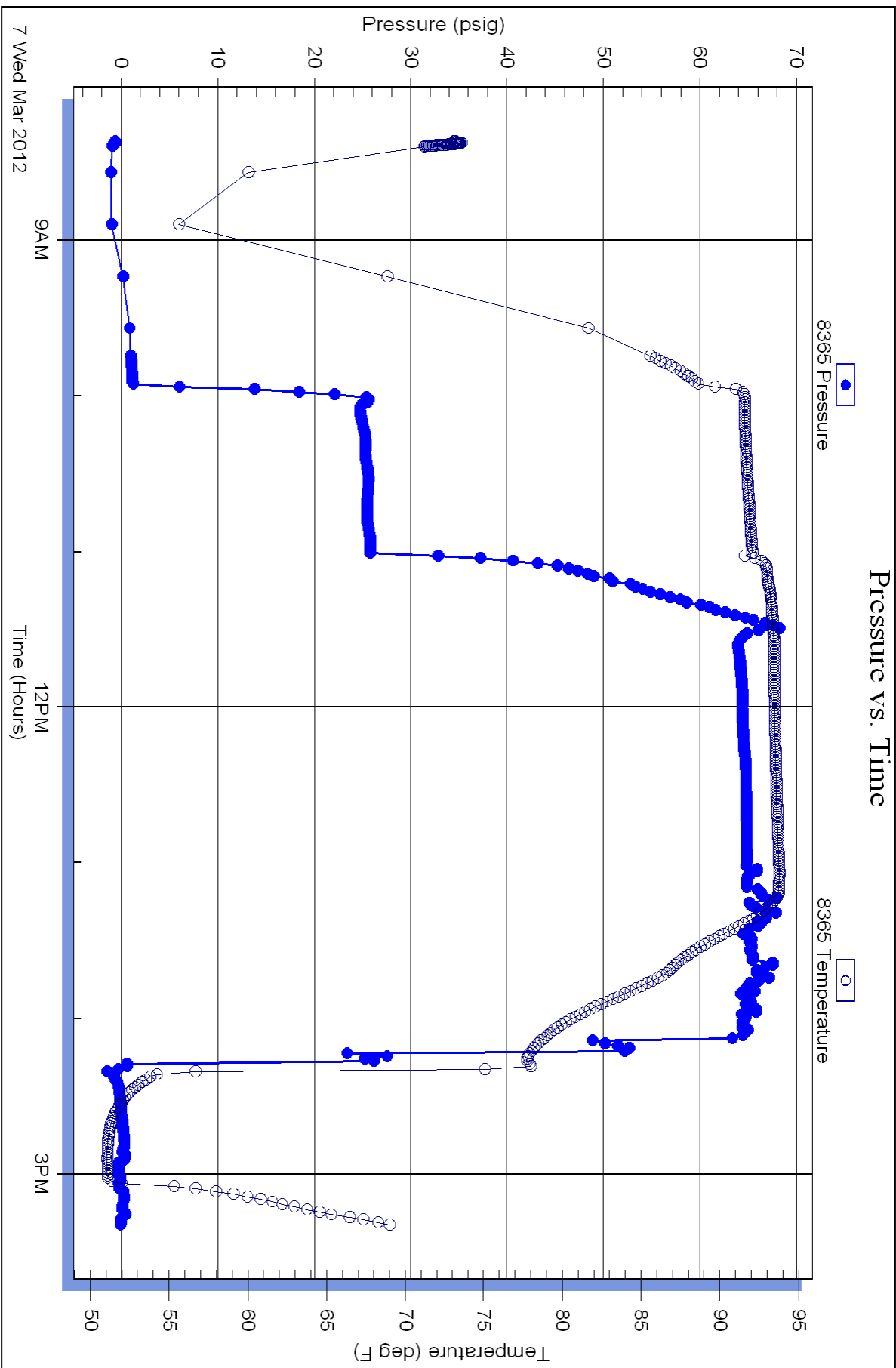
Serial #: 8365

Fluid

Samuel Gary Jr. and Associates, Inc.

Kraft 1-29

DST Test Number: 2





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

Well Name: SGA KRAFT 1-29
 Location: SEC. 29 15S 15W RUSSELL CO. , KS
 License Number: 15-165-21961-0000
 Spud Date: 03/02/12
 Surface Coordinates: 330' FSL/ 1780' FEL
 Region:
 Drilling Completed: 3/08/12

Bottom Hole
 Coordinates:
 Ground Elevation (ft): 1924' K.B. Elevation (ft): 1934'
 Logged Interval (ft): 1700' To: 3600' Total Depth (ft): 3600'
 Formation: Lansing, Arbuckle
 Type of Drilling Fluid:

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

OPERATOR

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

GEOLOGIST

Name: Schuyler Hedrick
 Company: Earth Tech OGL, Inc.
 Address: PO Box 683
 Hooker, Okla . 73945
 Off. 888-543-8378

DST's Report

DST #1 3166'-3234' 5-60-35-105
 IF- WK TO FR BLW 1/2" TO 4", ISI- NO BLW BACK, FF- BOB 10 MIN, FSI- SURF BLW BACK DIED IN 7 MIN
 IH- 1529, FH- 1501/ IF- 20 TO 26, FF- 55 TO 60/ ISI- 739, FIS- 656
 REC. 100' OF TF/ 35' OF SOCM 5% OIL, 95% MUD/ 65' OF GOCM 20% GAS, 15% OIL, 65% MUD/ BHT- 92,
 CHLOR.- 5200

DST's Report

DST #2 3320'-3385' 5-60-30-90
 IF- BOB IN 4 MIN., ISI- NO BLW BACK, FF- BOB INST., FSI- 1/2" BLW, DIED IN 37 MIN.
 IH-1642, FH-1605/ IF- 47 TO 54, FF-67-94/ ISI- 1028, FSI- 964
 REC. 164' OF TF./ 62' OF GHOCM 50% GAS, 40% OIL, 10% MUD/ 62' OF GO 40% GAS, 60% OIL/ 40' OF GOCM
 5% GAS, 15% OIL, 80% MUD/ 744' GIP/ BHT- 93, GRAVITY- 39, CHLOR.- 5200

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
 Sltyslts
 Lms

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
- Sandylms
- 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

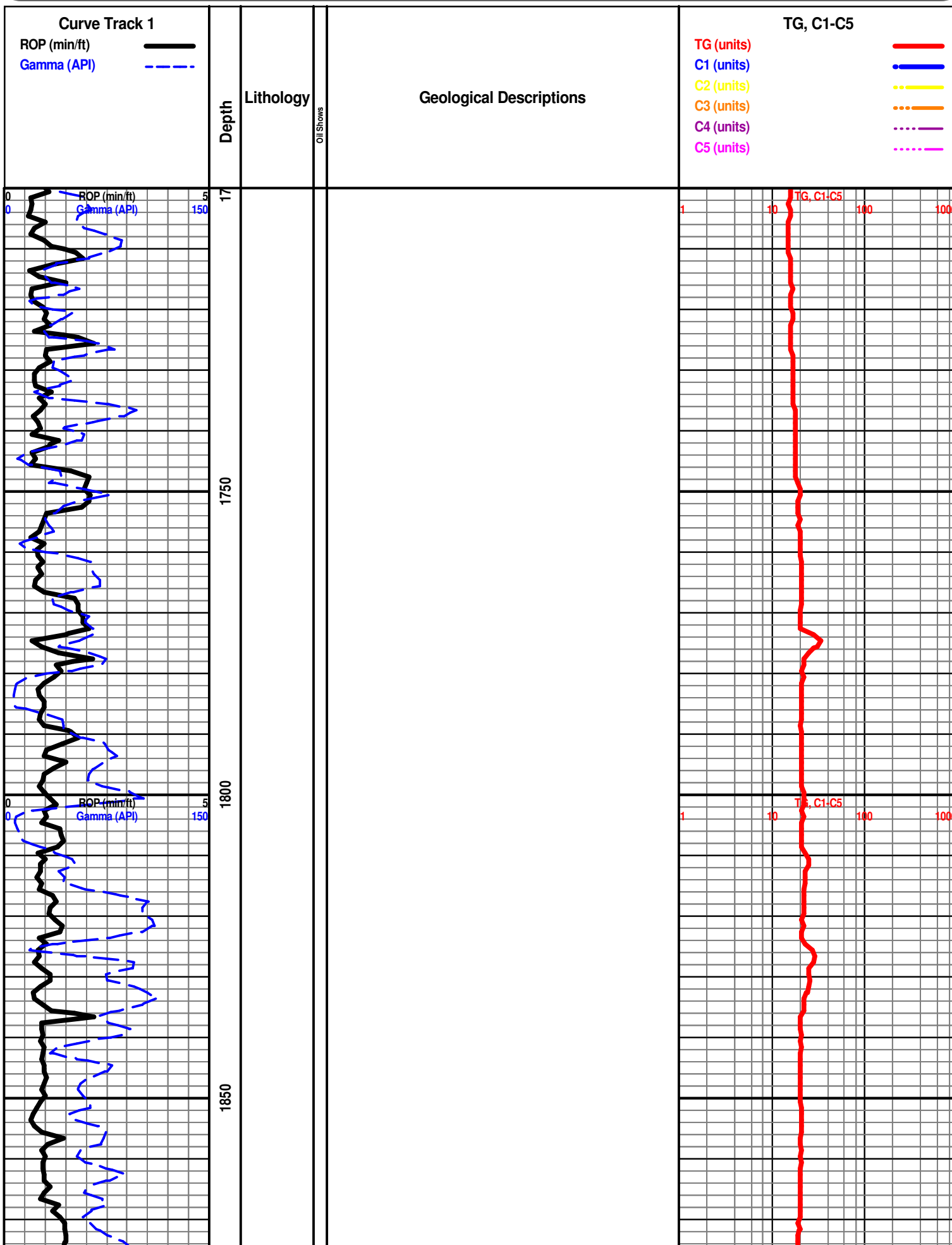
- Even
- Spotted
- Ques
- Dead
- Gas show

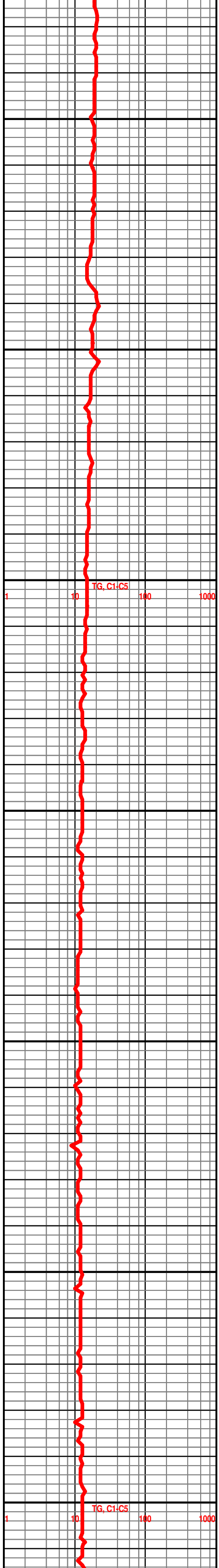
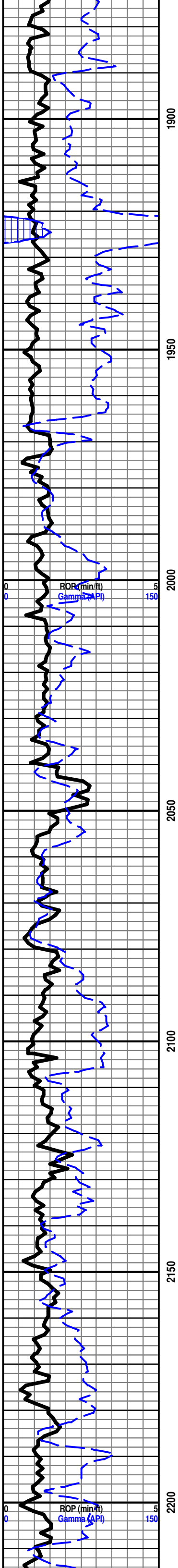
INTERVALS

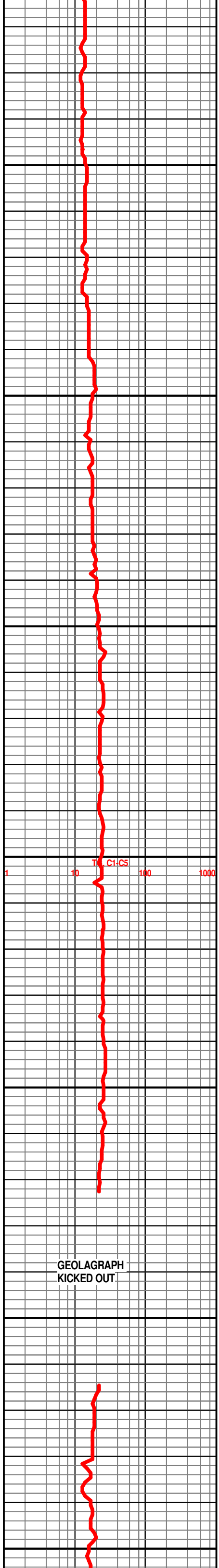
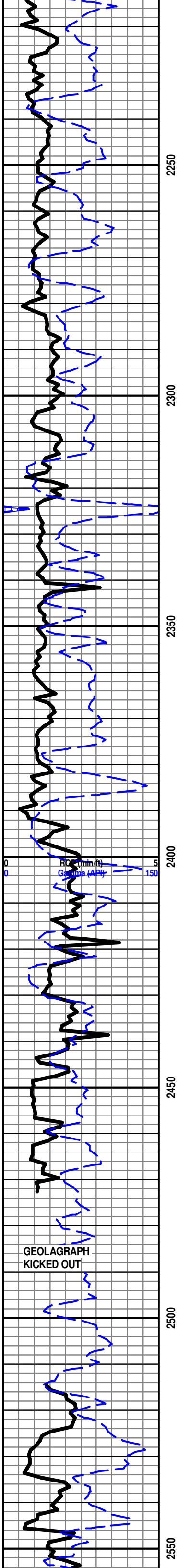
- Core
- Dst
- Dst

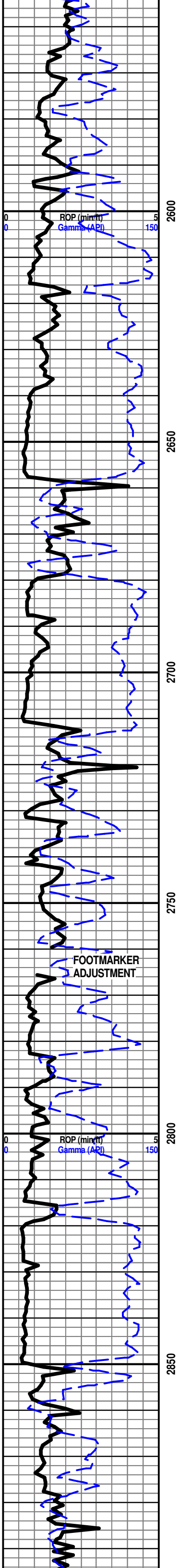
EVENTS

- Rft
- Sidewall



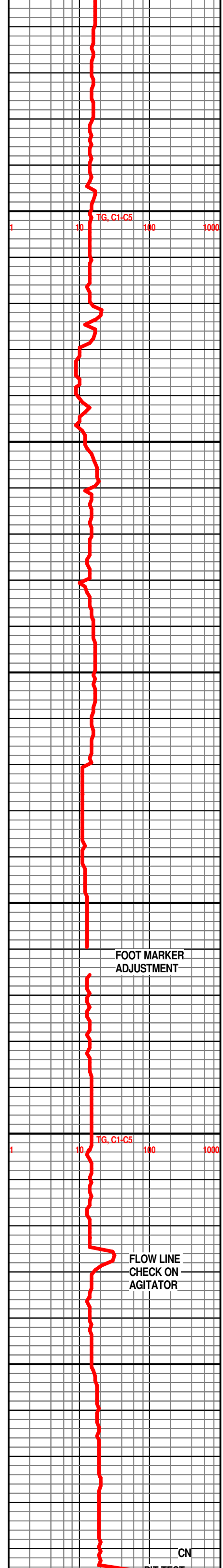


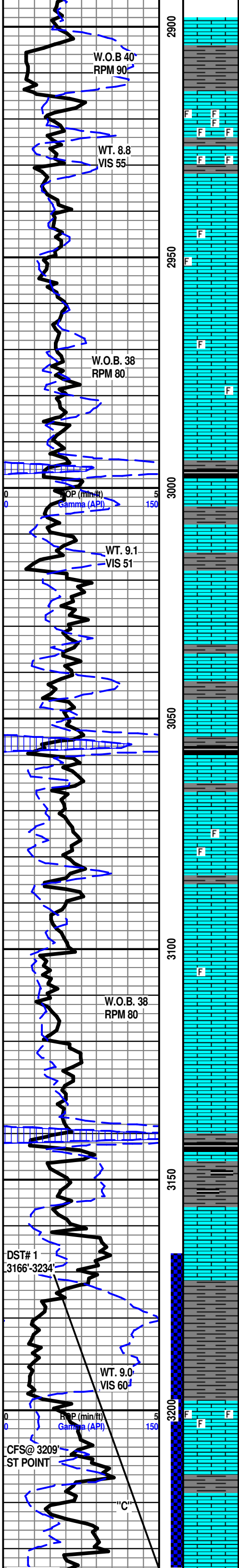




BRS 2658'-724'

HOWARD 2850'-916'





SEVERY 2903'-969'

SH- GY TO DK GY, FRM V-SFT TO GMMY IP, BLCKY SMTH TXT W/ SLI SLTY TXT IP

TOPEKA 2916'-982'

LS- CRM TO LT TN, HD DNS TO BRTT IP, MD-F-XLN MTRX, SLI TR RE-XLN, S-SUCRO IP, ABDT IMB FOSS FRAGS THRU, TR IMB CALC-XLS IP, DUL YEL FLO THRU, V PR SLI TR INTER-XLN POR IP, NO VIS CUT OR SHOW

LS- CRM TO LT GY MOTT, V HD TO BRTT IP, F-XLN MTRX, RE-XLN IP, IMB FOSS FRAGS IP, TR IMB CALC-XLS IP, DUL YEL FLO IP, SLI TR BRT YEL FLO IP, NO VIS POR, NO VIS SHOW

LS- CRM TO LT TN LT GY, HD DNS TO V-BRTT IP, F-VF-XLN MTRX, RE-XLN IP, S-SUCRO IP, TR IMB FOSS FRAGS IP, V DUL YEL FLO IP, NO VIS POR, NO VIS SHOW

SH- BLCK SFT CARB

LE COMPTON 3018'-1084'

LS- OFF WHT TO CRM BFF, HD DNS TO TR BRTT IP, F-VF-XLN MTRX, SLI TR RE-XLN, V DUL YEL FLO IP, NO VIS POR, NO VIS SHOW

SH- LT GY TO GY, FRM SPLNTY TO V-SFT GMMY IP

SH- BLCK SFT CARB

LS- CRM TO LT TN, HD DNS TO BRTT IP, F-XLN MTRX, TR RE-XLN IP, S-SUCRO IP, IMB FOSS FRAGS IP, V DUL YEL FLO IP, NO VIS POR, NO VIS SHOW

LS- CRM TO LT TN, HD TO V-BRTT IP, MD-F-XLN MTRX, RE-XLN, IMB FOSS FRAGS IP, SLI TR IMB, NO FLO, NO VIS POR, NO VIS SHOW

LS- LT TN TO TN, HD DNS TO BRTT, MD-F-XLN, S-SUCRO IP, S-CHLKY IP, V DUL YEL FLO IP, NO VIS POR, NO VIS SHOW

HEEBNER 3140'-1206'

SH- BLCK SFT CARB

SH- GY TO DK GY, FRM BLKY TO SFT IP, TR BLCK CARB IP

DOUGLAS 3173'-1239'

SH- LT GY TO GY, V V GMMY THRU

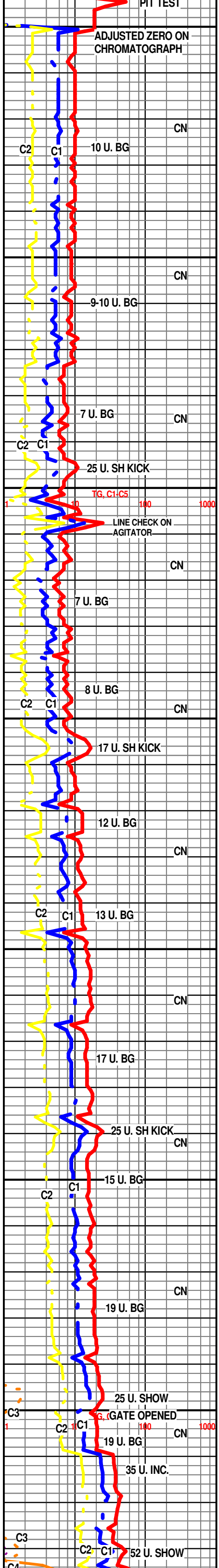
LANSING 3199'-1265'

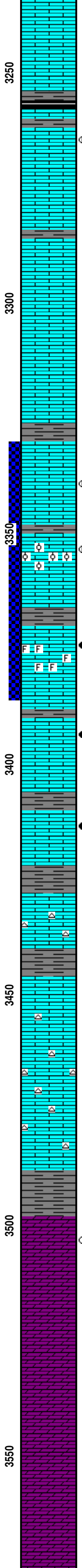
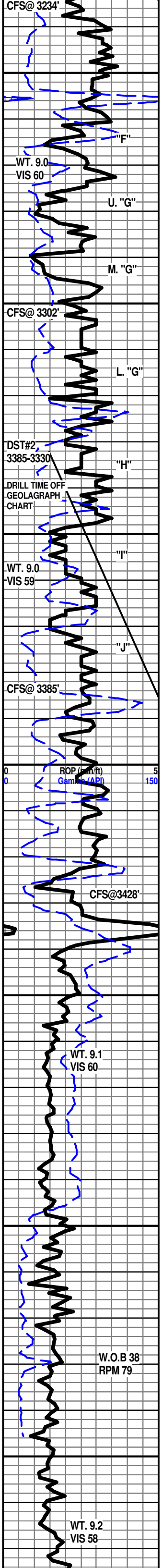
3199'-3201' LS- LT TN TO TN W/ DK TN OIL STN IN 70%, HD TO V BRTT, MD-XLN RE-XLN, SUCRO MTRX, S-CHLKY IP, V FOSS THRU, IMB SM CALC-XLS THRU, TR FREE FOSSIL IP, SLI TR PYR IP, YEL GLD FLO IN 80%, TR SPTTD BRT YEL GLD FLO IP, FR TO TR GD FOSS POR IN 50%, FR INTER-XLN POR IN 20%, POSS FRACT POR, GD FLSH CUT THRU, FR SLW STRM CUT IN 80%, DK TN STN LCH ON DSH, GD OIL ODOR

LANSING "C" 3219'-1285'

3221'-3223' LS- TN W/ TN OIL STN IN 60%, DNS TO V-BRTT, SUCRO MTRX THRU, ABDT SFT TO GMMY WHT CHLKY THRU, IMB CACL-XLS IP, DUL YEL GLD FLO IN 60%, BRT YEL GLD FLO IN 20%, FR TO TR GD MICRO-VUG POR IN 60%, V PR VUG POR IN 10%, GD FLSH CUT IN 70%, GD SLW STRM CUT IN 50%, LT TN LCH ON DSH, GD OIL ODOR

3231'-3233' LS- TN TO DK TN W/ DK TN OIL STN IN 70%. HD TO V-BRTT.





MD-XLN TO SUCRO MTRX, S-CHLKY IP, SCAT IMB OOL THRU, DUL YEL GLD FLO IN 70%, BRT YEL GLD FLO IN 20%, PR TO TR FR VUG-POR IN 40%, NO VIS POR IN 60%, FR FLSH CUT IN 60%, FR SLW STRM CUT IN 50%, LT TN LCH ON DSH, FR OIL ODOR

LANSING "F" 3264'-1330'

3264'-3266' LS- LT TN TO TN, W/ TN OIL STN IN 10%, V HD DNS TO TR BRTT IP, VF-XLN MTRX, S-SUCRO IP, S-CHLKY IP, DUL YEL GLD FLO 20%, BRT YEL GLD FLO IN 10%, V PR VUG POR IN 10%, TR PR MICRO-VUG POR IP, FR FLSH CUT IN 40%, GD SLW STRM CUT IN 30%, LT TN LCH ON DSH, FR OIL ODOR

3278-3281 LS- WHT TO CRM, HD DNS TO V BRTT IP, MD-XLN, CHLKY MTRX THRU, SFT TO GMMY WHT CHLK IN TRAY, DUL YEL FLO THRU, NO VIS POR, NO VIS SHOW

3290-3294 LS- OFF WHT TO CRM, HD DNS TO BRTT, RE-XLN MTRX, S-SURCO IP, V OOLMOLDIC THRU, IMB SFT WHT CHLK IP, V DUL YEL FLO IP, FR TO GD OOLMOLDIC POR THRU, NO VIS CUT OR SHOW

LS- CRM TO LT TN, V HD TO BRTT IP, F/VF-XLN MTRX, S-CHLKY THRU, V DUL YEL FLO IP, NO VIS POR, NO VIS SHOW

LANSING "H" 3332'-1398'

3338'-3340' LS- CRM TO LT TN, W/ TN OIL STN (ON ONE FACES OR ROCK), V HD TO BRTT IP, F-XLN TO SUCRO MTRX, SM IMB CACL-XLS ON ONE FACES OF ROCK, DUL YEL GLD FLO IN 40%, BRT YEL GLD FLO IP, PR TO TR FR INTER-XLN POR ON ONE FACES, POSS FRACT POR, PR FLSH CUT IN 40%, PR TO TR FR SLW STRM CUT IN 20%, V LT TN LCH ON DSH, PR OIL ODOR

3354 '3356' LS- LT TN TO TN, W/ TN OIL STN IN 80%, DNS TO V-BRTT, V RE-XLN MTRX, ABDT OOL @ PP MTRX THRU, V OOLITIC THRU, YEL GLD FLO IN 80%, BRT YEL GLD FLO IN 20%, GD VIS OOLITIC POR IN 60%, FR FLSH CUT IN 60%, FR SLW STRM CUT IN 60%, LT TN LCH ON DSH, GD OIL ODOR

3373'-3375' LS- OFF WHT TO CRM, DK TN OIL STN IN 70%, HD TO V-BRTT, V RE-XLN MTRX, V SUCRO THRU, V FOSS THRU, VIS FREE FOSS IN TRAY, DUL YEL GLD FLO IN 60%, FR TO TR GD FOSS POR IN 60%, GD INST FLSH CUT IN 80%, V GD SLW STRM CUT THRU, TN LCH ON DSH, GD OIL ODOR

3393'-3395' LS- LT TN TO TN, W/ TN OIL STN IN 80%, HD DNS TO V-BRTT, RE-XLN, SUCRO MTRX, TR DISS PYR IP, BRT YEL FLO IN 70%, DUL YEL GLD FLO IN 20%, PR TO TR FR VUG POR IN 30%, SCAT V PR MICRO VUG POR IN 10%, GD FLSH CUT THRU, FR TO GD SLW STRM CUT IN 80%, TN LCH ON DSH, FR OIL ODOR

3411'-3415' LS- TN TO DK TN, W/ LIVE OIL STN IN 80%, HD TO BRTT IP, MD-XLN, TR RE-XLN, S-SUCRO THRU, S-CHLKY IP, DUL YEL GLD FLO IN 60%, SPTTD BRT YEL GLD FLO IN 10%, NO FLO IN 30%, SCAT FR TO TR GD MICRO-VUG POR IN 40%, PR VIS VUG POR IN 10%, GD FLSH CUT IN 90%, GD SLW STRM CUT IN 70%, DK TN LCH ON DSH, GD OIL ODOR

BKC 3421'-1487'

LS- OFF WHT TO CRM, V HD DNS, V/F/CRYPTO-XLN, S-CHLKY IP, ABDT WHT CHRT THRU, V DUL YEL FLO, NO VIS POR, NO VIS SHOW

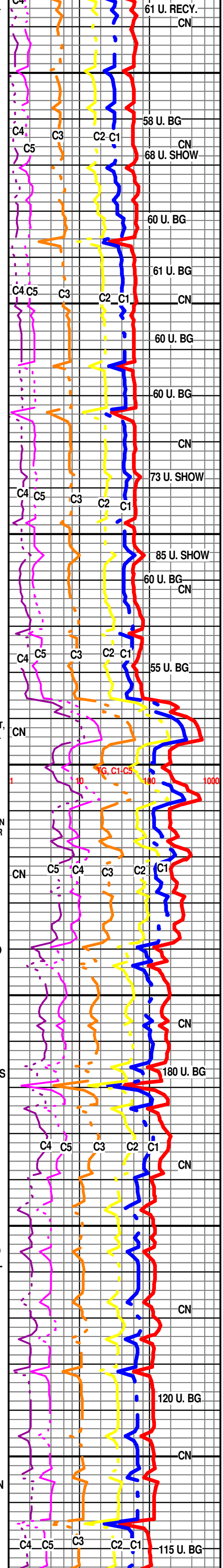
LS- OFF WHT CRM, HD DNS TO TR BRTT IP, VF-XLN MTRX, S-CHLKY IP, WHT CHRT THRU, NO VIS FLO, NO VIS POR, NO VIS SHOW

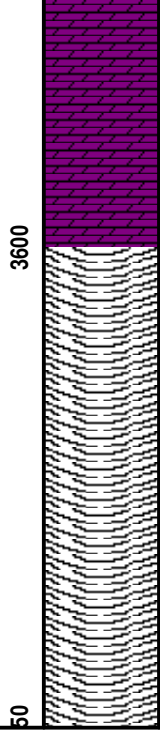
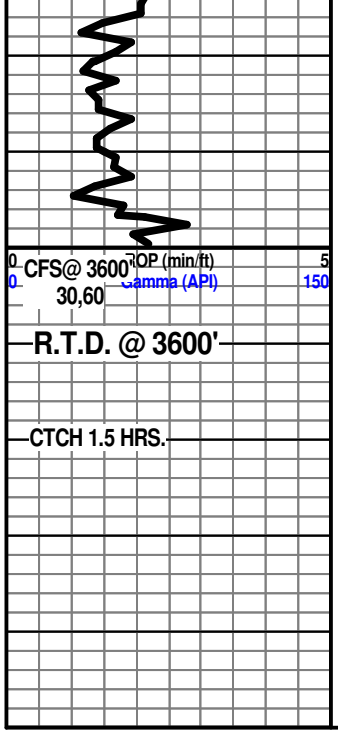
ARBUCKLE 3498'-1564'

3504'-3505' DOLO- CRM TO LT TN, W/ LT TN OIL STN IN 10%, HD DNS TO BRTT, MD-XLN RE-XLN MTRX, S-SUCRO IP, ABDT SM ANG TO S-ANG CLR QTRZ GRNS THRU, DUL YEL FLO IN 20%, V PR INTER-GRN POR IN 10%, TR V PR FLSH CUT IP, V PR SLW STRM CUT IN 10%, NO VIS LCH ON DSH, NO OIL ODOR

DOLO- OFF WHT TO WHT, V HD DNS TO BRTT IP, F-XLN MTRX, RE-XLN IP, S-CHLKY IP, ABDT SM S-ANG DOLO GRNS IP, SM ANG CLR QRTZ GRNS IP, YEL MIN FLO THRU, NO VIS POR, NO VIS SHOW

DOLO- WHT TO OFF WHT, HD DNS TO V-BRTT IP, MD-XLN MTRX, S-SUCRO IP, S-CHLKY IP, ABDT SM ANG DOLO GRNS THRU, DUL YEL MIN FLO IP, TR V PR INTER-GRN POR IP, NO VIS CUT OR SHOW





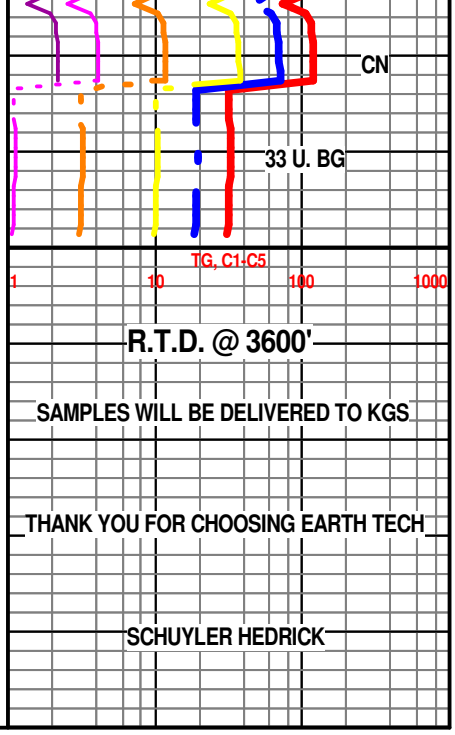
DOLO- WHT TO OFF WHT, V HD DNS TO TR BRTT IP,
 VF-XLN MTRX, S-CHLKY IP, ABDT SM S-ANG DOLO GRNS
 THRU, DUL YEL MIN FLO THRU, BRT YEL MIN FLO IP, NO
 VIS POR, NO VIS SHOW

R.T.D. @ 3:30 A.M. 3/08/12

DROP SURVEY

T.O.F LOGS @ 5:00 A.M.

WEATHERFORD LIBERAL, KS



R.T.D. @ 3600'

SAMPLES WILL BE DELIVERED TO KGS.

THANK YOU FOR CHOOSING EARTH TECH

SCHUYLER HEDRICK