



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1151972
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: _____



1151972

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--	---

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
 Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
 Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	VIRGINIA 1-22
Doc ID	1151972

All Electric Logs Run

DEN-NEUT
INDUCTION
MICRO
SONIC
SPECTRAL

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	VIRGINIA 1-22
Doc ID	1151972

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	3418-3422		3418-3422
4	3452-3460	500 GAL 28% MCA W/ 3% MAS	3452-3460
4	3575-3578	500 GAL 28% MCA W/ 3% MAS	3575-3578
4	3664-3666	400 GAL 15% ACETIC IN ARBUCKLE PERFS	3664-3666
4	3668-3672		3668-3672
4	3674-3680		3674-3680

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



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

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

July 17, 2013

CHRISTOPHER MITCHELL
Samuel Gary Jr. & Associates, Inc.
1515 WYNKOOP, STE 700
DENVER, CO 80202

Re: ACO1
API 15-051-26499-00-00
VIRGINIA 1-22
SE/4 Sec.22-12S-17W
Ellis County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
CHRISTOPHER MITCHELL



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: 3/29/2013
 Invoice # 6598
 P.O.#:
 Due Date: 4/28/2013
 Division: Russell

Invoice

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

Reference:
 VIRGINIA 1-22

Description of Work:
 SURFACE JOB

RECEIVED

APR 09 2013

SAMUEL GARY JR.
 & ASSOCIATES, INC.

DRLG COMP W/O LOE GG

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

Services / Items Included:

	Quantity	Price	Taxable
Labor		\$ 963.85	No
Common-Class A	225	\$ 2,978.25	Yes
8 5/8" Basket	2	\$ 667.11	Yes
Bulk Truck Matl-Material Service Charge	237	\$ 500.33	No
Calcium Chloride	8	\$ 402.46	Yes
Pump Truck Mileage-Job to Nearest Camp	16	\$ 168.55	No
8 5/8" Centralizer	2	\$ 135.11	Yes
8 5/8" Top Rubber Plug	1	\$ 111.89	Yes
Baffle Plate Aluminum, 8 5/8"	1	\$ 95.00	Yes
Bulk Truck Mileage-Job to Nearest Bulk Plant	16	\$ 98.63	No
Premium Gel (Bentonite)	4	\$ 68.74	Yes

Item Quantity Price Taxable

Invoice Terms:

Net 30

SubTotal: \$ 6,189.93
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (928.49)

SubTotal for Taxable Items: \$ 3,789.78
 SubTotal for Non-Taxable Items: \$ 1,471.66
 Total: \$ 5,261.44
 Tax: \$ 238.76

6.30% Ellis County Sales Tax

Amount Due: \$ 5,500.20
Applied Payments:
Balance Due: \$ 5,500.20

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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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. 6598

Date	3-28-13	Sec.	22	Twp.	12	Range	17	County	Ellis	State	KS	On Location		Finish	8:30 AM
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Location: *Victory Non Rodell to Lucas Grove*

Leas.	<i>Virginia</i>	Well No.	<i>1-22</i>	Owner	<i>Val W N H Co</i>
Contractor	<i>Wise Overby 2</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>Surface</i>			Charge To	<i>Sam Gary Jr.</i>
Hole Size	<i>12 1/4</i>	T.D.	<i>389</i>	Street	<i>Sam Gary Jr.</i>
Csg.	<i>8 5/8</i>	Depth	<i>388</i>	City	<i>State + Assoc.</i>
Tbg. Size		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Tool		Depth		Cement Amount Ordered	<i>225 com 3% CC</i>
Cement Left in Csg.	<i>47.08</i>	Shoe Joint	<i>47.08</i>		

Meas Line	Displace	<i>22 BBL</i>	<i>290 gal</i>
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EQUIPMENT

Pumptrk	<i>6</i>	No.		Cementor	<i>mt</i>	Helper		Poz. Mix	
Bulktrk	<i>8</i>	No.		Driver	<i>Brett</i>	Driver		Gel.	<i>4</i>
Bulktrk	<i>pa</i>	No.		Driver	<i>Lonnie</i>	Driver	<i>m</i>	Calcium	<i>8</i>

JOB SERVICES & REMARKS

Remarks:	<i>Virginia 1-22</i>	Hulls	
Rat Hole		Salt	
Mouse Hole		Flowseal	
Centralizers	<i>1, 7</i>	Kol-Seal	
Baskets	<i>2, 8</i>	Mud CLR 48	
D/V or Port Collar		CFL-117 or CD110 CAF 38	
		Sand	
		Handling	<i>237</i>
		Mileage	

Cement did circulate

~~*Circulate*~~

Thank you

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	<i>2 8 5/8</i>
Baskets	<i>2 8 5/8</i>
AFU Inserts	
Float Shoe	<i>1 8 5/8 Rubber plug</i>
Latch Down	<i>Baffle plate</i>
Pumptrk Charge	<i>Surface</i>
Mileage	<i>16</i>

X Signature *James Amund*

Tax
Discount
Total Charge

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. 6500

Date	4-3-13	Sec.	22	Twp.	12	Range	17	County	ELLIS	State	KANSAS	On Location	Finish
Location													5:45 pm

Location CODELL N TO LOCUST GROVE - 1 W - N / INTO

Lease VIRGINIA Well No. 1-22 Owner SAM GARY

Contractor D.D #2 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 PROD-STRING Charge To SAM GARY JR & ASSOC.

Hole Size 7 1/8 T.D. 3,770' Street 1515 WYNKOOP, STE 700

Csg. 5 1/2 Depth City DENVER State CO, 80202

Tbg. Size Depth The above was done to satisfaction and supervision of owner agent or contractor.

Tool POET-COLLAR Depth Cement Amount Ordered 225.0 per 10% SALT 5% SINE 1/4 FLO

Cement Left in Csg. Shoe Joint 43.25 Cement Amount Ordered 3% CD110 .25% Caf 38 8% CFL117

Meas Line Displace 89 BWS Common 225

EQUIPMENT

Pumptrk # <u>110</u>	No.	Cement Helper <u>TRAVIS</u>		Poz. Mix
Bulktrk # <u>8</u>	No.	Driver <u>HEATH</u>		Get. <u>CD 110 117#</u>
Bulktrk <u>PLU</u>	No.	Driver <u>CISCO</u>		Calcium

JOB SERVICES & REMARKS

Remarks: Hulls KCL 2 gal

Rat Hole Salt 19

Mouse Hole Flowseal 56#

Centralizers 1,3,5,7,9,11,13,15,58,60 Kol-Seal 1057

Baskets 4,10,16,61 Mud CLR 48 500 gal

D/V or Port Collar # 60 Sand 176#

DROPPED PLUG - BROKE CIRCULATION Handling 254

CIRCULATED 1 hr ON BOTTOM - PLUGGED Mileage

RATHOLE 45 SKS - MIXED & PUMPED - **FLOAT EQUIPMENT**

180 SKS - DOWN 5 1/2" - WASHED PUMPED Guide Shoe

DROPPED PLUG - DISPLACED PLUG - Centralizer 10-5 1/2" TURBOS

PLUG LANDED & HELD Baskets 4-5 1/2" WEATHERFORDS

LEFT PRESSURE @ 1,000 AFU Inserts

PLUG LANDED @ 89 BWS 1,300 LBS. Float Shoe 1-5 1/2"

 Latch Down 1-5 1/2" w/PLUG

 1-5 1/2" PORT COLLAR

Pumptrk Charge Prod Long String

Mileage 16

Tax

Discount

Total Charge

X 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: 4/10/2013
 Invoice # 6734

P.O.#:

Due Date: 5/10/2013

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
 APR 12 2013
 SAMUEL GARY JR.
 & ASSOCIATES, INC.

DRLG COMP W/O LEAD LOG

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

Reference:
 VIRGINIA 1-22

Description of Work:
 PORT COLLAR JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 977.42	No				
mon, MetsoBeads, Plater, Gel, FloSeal, Calcium)	175	\$ 3,581.63	Yes				
Bulk Truck Matl-Material Service Charge	250	\$ 535.21	No				
Pump Truck Mileage-Job to Nearest Camp	16	\$ 170.93	No				
Flo Seal	62	\$ 132.73	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	16	\$ 100.02	No				

Invoice Terms:

Net 30

SubTotal: \$ 5,497.95
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (824.69)

SubTotal for Taxable Items:	\$ 3,157.21
SubTotal for Non-Taxable Items:	\$ 1,516.04
Total:	\$ 4,673.26
Tax:	\$ 198.90

6.30% Ellis County Sales Tax

Thank You For Your Business!

Amount Due: \$ 4,872.16
Applied Payments:
Balance Due: \$ 4,872.16

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. 6734

Date	4-9-13	Sec.	22	Twp.	12	Range	17	County	Ellis	State	KS	On Location		Finish	11 AM
Virginia													Location		Code 1 N to Locust Grove Rd

Lease _____ Well No. 1-22 Owner I W NINTO

Contractor Alliance To Quality Oilwell Cementing, Inc.
Type Job port collar 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 _____ T.D. _____ Char To _____
Csg. 5 1/2 _____ Depth _____ Street _____ State _____

Tbg. Size 2 1/2 _____ Depth _____ City _____ State _____

Tool port collar _____ Depth _____ The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg. _____ Shoe Joint _____ Cement Amount Ordered 250 @ made by _____

Meas Line _____ Displace 7.43436 flow used 175

EQUIPMENT Common 175

Pumptrk 5	No.	Cementer	Matt		Poz. Mix
Bulktrk 10	No.	Driver	Brett		Gel.
Bulktrk 04	No.	Driver	Kennin W		Calcium

JOB SERVICES & REMARKS Halls

Remarks: Salt

Rat Hole Flowseal 62#

Mouse Hole Kol-Seal

Centralizers Mud CLR 48

Baskets CFL-117 or CD110 CAF 38

D/V or Port Collar 1284 ft Sand

tested tool to 1000 psi Handling 250

with 175 sks down Mileage _____

hole displaced 5.5 B13L **FLOAT EQUIPMENT**

Run 5 counts in Guide Shoe

Washed Clean Rig Centralizer

down Baskets

AFU Inserts

Float Shoe

Latch Down

Pumptrk Charge port collar
Mileage 16
Tax _____
Discount _____
Total Charge _____

X Signature *James P. Purnell*

Thanks



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. and Associates, Inc.

22 12s 17w Ellis

1515 Wynkoop St. Ste 700
Denver, CO 80202

Virginia 1-22

Job Ticket: 52071

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2013.03.31 @ 20:20:00

GENERAL INFORMATION:

Formation: **LKC " C & D "**

Deviated: No Whipstock: 2121.00 ft (KB)

Time Tool Opened: 22:37:00

Time Test Ended: 05:32:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jim Svaty

Unit No: 41

Interval: 3379.00 ft (KB) To 3430.00 ft (KB) (TVD)

Reference Elevations: 2121.00 ft (KB)

Total Depth: 3430.00 ft (KB) (TVD)

2113.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6752 Inside

Press @ Run Depth: 82.30 psig @ 3394.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.03.31

End Date:

2013.04.01

Last Calib.:

2013.04.01

Start Time: 20:20:01

End Time:

05:31:30

Time On Btm:

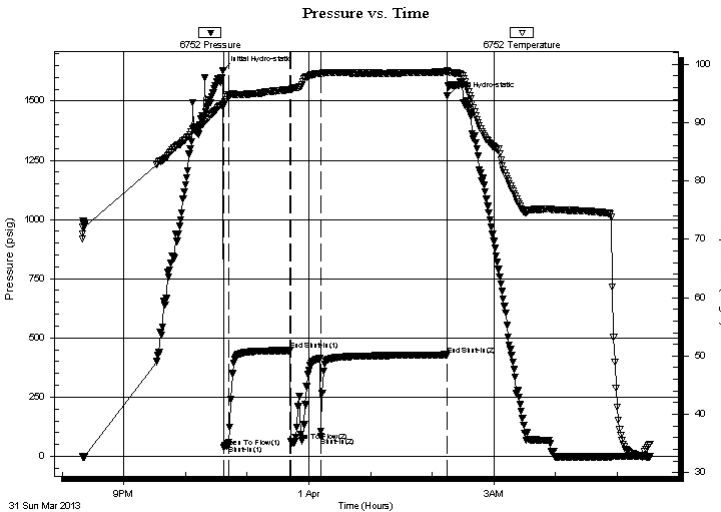
2013.03.31 @ 22:36:40

Time Off Btm:

2013.04.01 @ 02:14:20

TEST COMMENT: 5-IFP- Surface Blow Building to 7 in.
60-ISIP- Surface Blow Died in 20min.
30-FFP- BOB in 3 1/2 min.
120-FSIP- Surface Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1629.47	93.14	Initial Hydro-static
1	38.54	92.93	Open To Flow (1)
5	48.48	94.75	Shut-In(1)
65	447.04	95.69	End Shut-In(1)
66	63.91	95.65	Open To Flow (2)
95	82.30	98.41	Shut-In(2)
218	428.42	98.73	End Shut-In(2)
218	1520.31	98.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
126.00	GOCM 10%g 5 %o 85%m	1.49
10.00	CO 100%	0.14
0.00	180 GIP	0.00

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.

22 12s 17w Ellis

1515 Wynkoop St. Ste 700
Denver, CO 80202

Virginia 1-22

Job Ticket: 52071

DST#: 1

ATTN: Clayton Camozzi

Test Start: 2013.03.31 @ 20:20:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

31 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
126.00	GOCM 10%g 5 %o 85%m	1.494
10.00	CO 100%	0.140
0.00	180 GIP	0.000

Total Length: 136.00 ft Total Volume: 1.634 bbl

Num Fluid Samples: 0

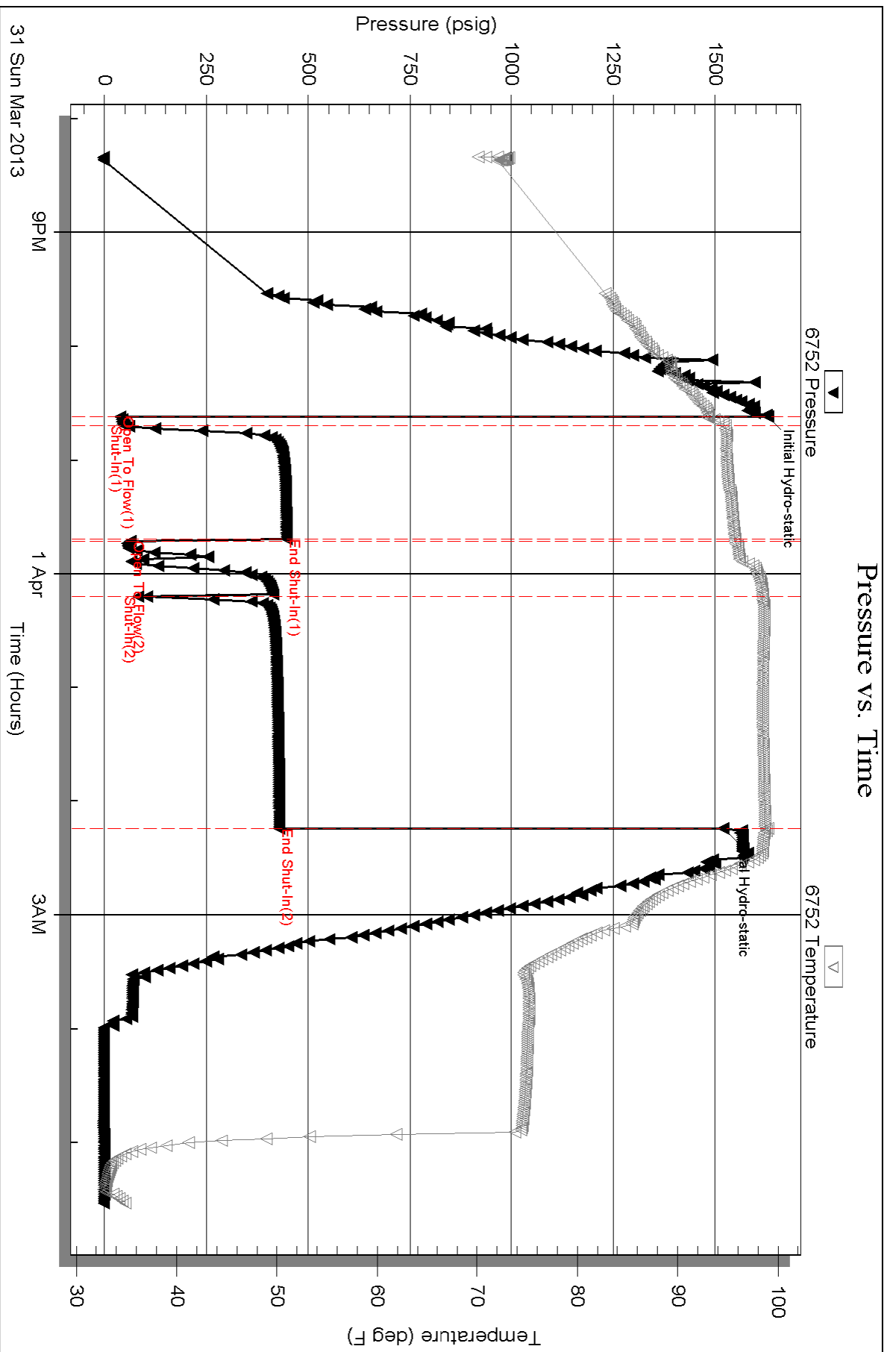
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: SAMPLER 2200 ml CO 100% 250psi 31gravity





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. and Associates, Inc.

22 12s 17w Ellis

1515 Wynkoop St. Ste 700
Denver, CO 80202

Virginia 1-22

Job Ticket: 52072

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2013.04.01 @ 13:18:00

GENERAL INFORMATION:

Formation: **LKC " F & mid. G "**
 Deviated: No Whipstock: 2121.00 ft (KB)
 Time Tool Opened: 15:18:10
 Time Test Ended: 21:45:00
 Interval: **3436.00 ft (KB) To 3481.00 ft (KB) (TVD)**
 Total Depth: 3481.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jim Svaty
 Unit No: 41
 Reference Elevations: 2121.00 ft (KB)
 2113.00 ft (CF)
 KB to GR/CF: 8.00 ft

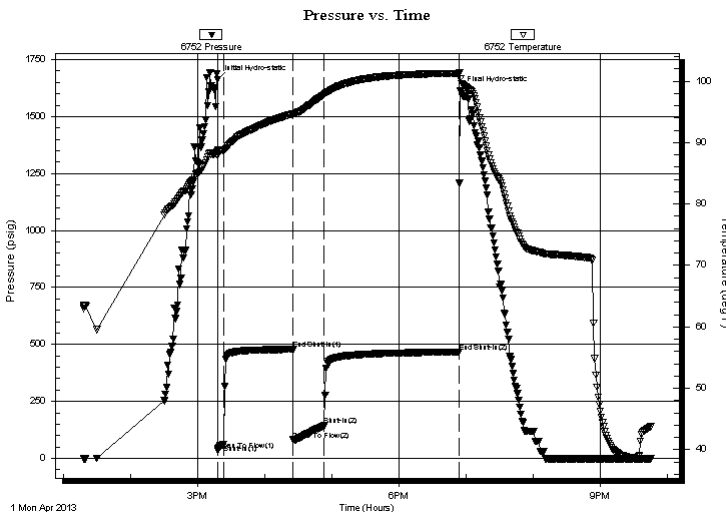
Serial #: 6752

Inside

Press @ Run Depth: 143.46 psig @ 3443.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.04.01 End Date: 2013.04.01 Last Calib.: 2013.04.01
 Start Time: 13:18:01 End Time: 21:45:10 Time On Btm: 2013.04.01 @ 15:17:50
 Time Off Btm: 2013.04.01 @ 18:54:20

TEST COMMENT: 5-IFP- BOB in 3 1/2 min.
 60-ISIP- Surface Blow Died in 12 min.
 30-FFP- BOB in 5 min.
 120-FSIP- Surface Blow in 1 min. 5 in. Blow in 24 min. BOB in 79 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1662.51	88.75	Initial Hydro-static
1	33.92	88.52	Open To Flow (1)
6	60.64	88.74	Shut-In(1)
67	478.30	94.66	End Shut-In(1)
68	81.09	94.65	Open To Flow (2)
96	143.46	97.84	Shut-In(2)
216	467.14	101.29	End Shut-In(2)
217	1612.45	101.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
118.00	GOMCW 10%g 2%o 5%m 83%w	1.38
134.00	GMWCO 10%g 10%m 30%w 50%o	1.88
62.00	GWMCO 10%g 10%w 25%m 55%o	0.87
0.00	504 GIP	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.

22 12s 17w Ellis

1515 Wynkoop St. Ste 700
Denver, CO 80202

Virginia 1-22

Job Ticket: 52072

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2013.04.01 @ 13:18:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

27 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

80000 ppm

Viscosity: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
118.00	GOMCW 10%g 2%o 5%m 83%w	1.382
134.00	GMWCO 10%g 10%m 30%w 50%o	1.880
62.00	GWMCO 10%g 10%w 25%m 55%o	0.870
0.00	504 GIP	0.000

Total Length: 314.00 ft Total Volume: 4.132 bbl

Num Fluid Samples: 0

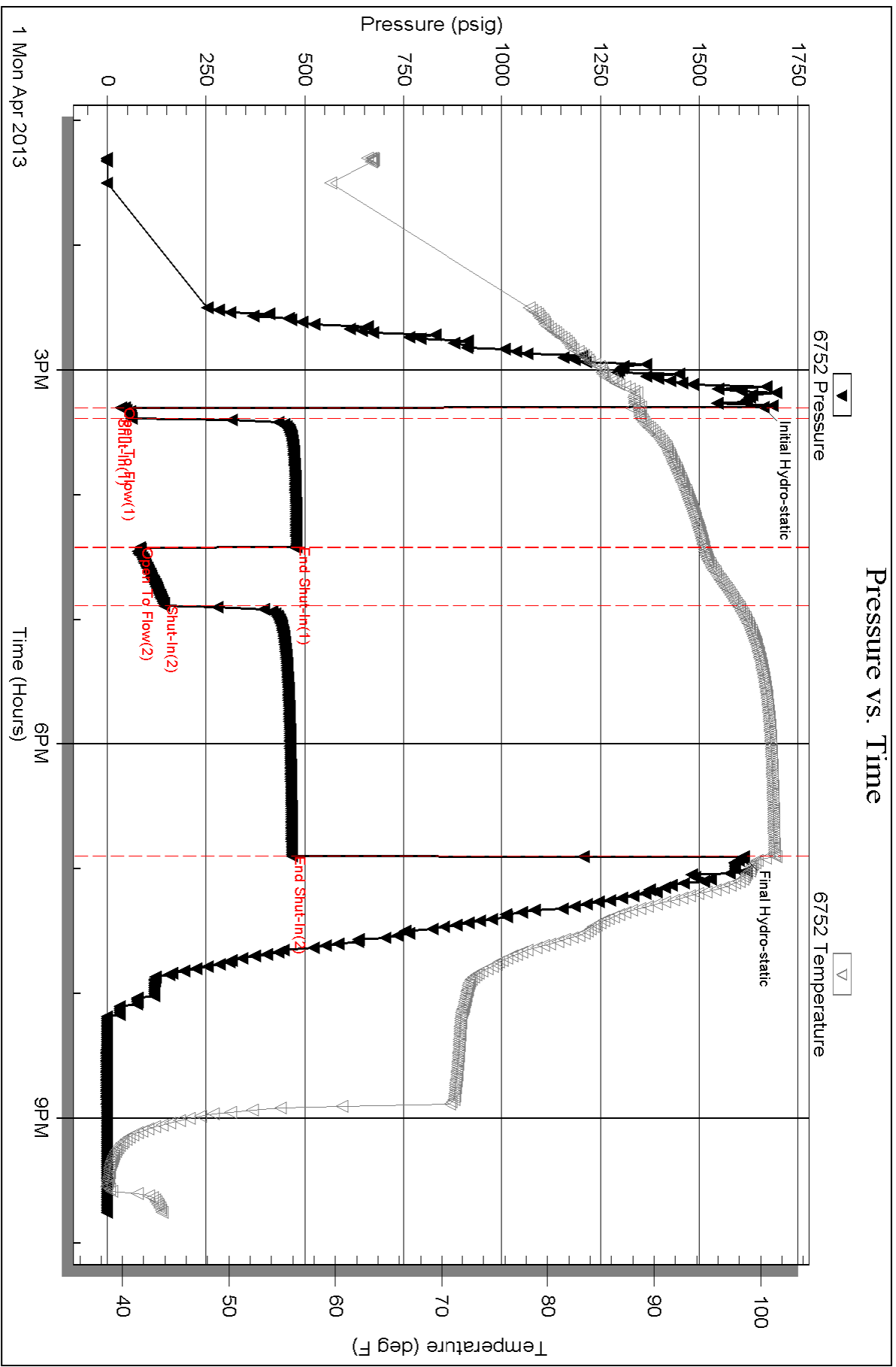
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: SAMPLER 2200ml CO 100% 210 psi 27 gravity
.150 @ 46



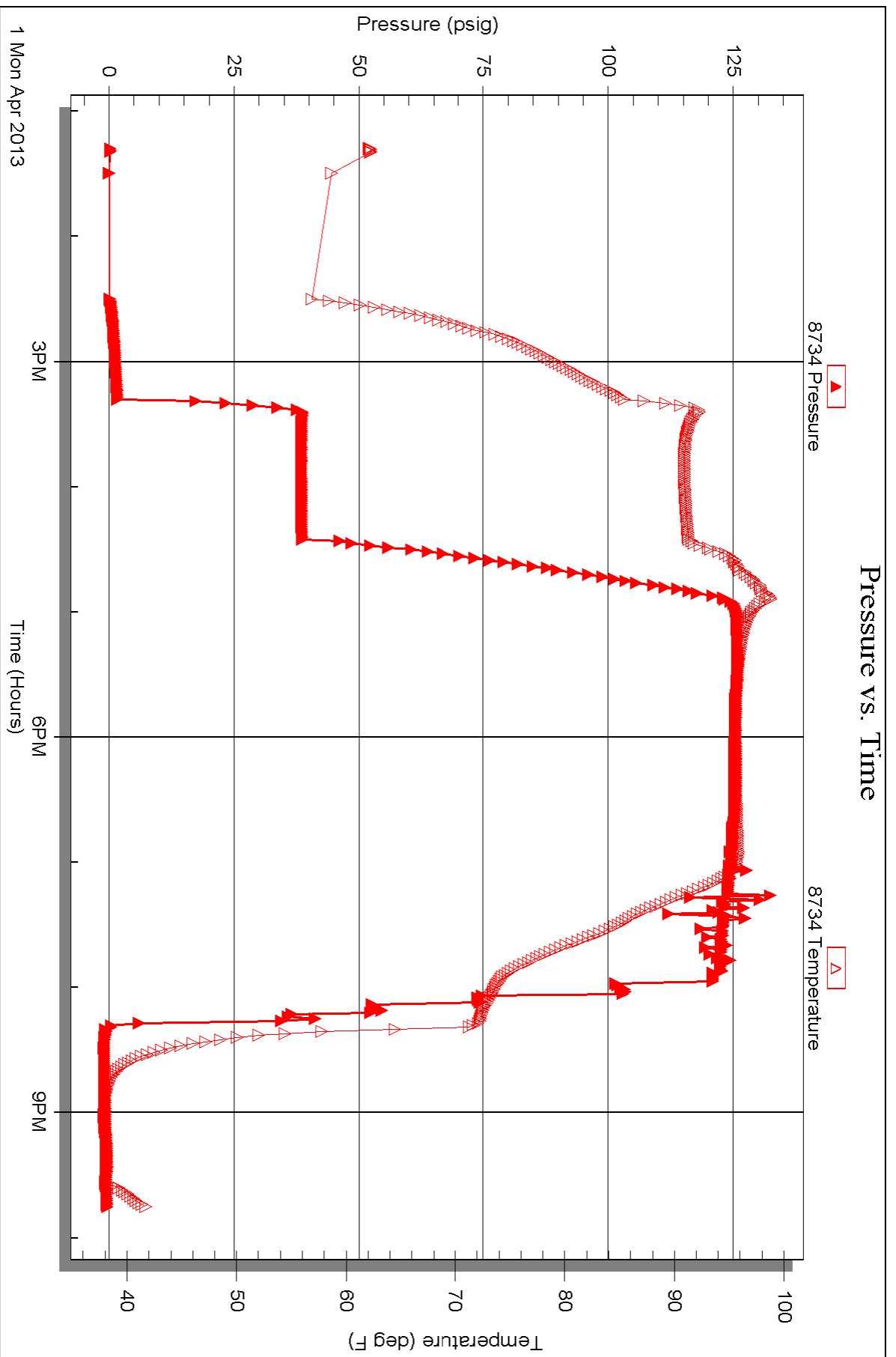
Serial #: 8734

Fluid

Samuel Gary Jr. and Associates, Inc.

Virginia 1-22

DST Test Number: 2





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

Well Name: Virginia 1-22
 Location: Sec. 22-12S-17W Ellis County, Kansas
 License Number: 15-051-26499-0000
 Spud Date: March 28, 2013
 Surface Coordinates: 1000 FSL/ 1880 FEL
 Region: WILDCAT
 Drilling Completed: Apr. 2, 2013

Bottom Hole Coordinates:
 Ground Elevation (ft): 2113' K.B. Elevation (ft): 2121'
 Logged Interval (ft): 3000' To: 3770' Total Depth (ft): 3770'
 Formation:
 Type of Drilling Fluid:

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

OPERATOR

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

GEOLOGIST

Name: Aaron Suelter
 Company: Earth Tech OGL, Inc.
 Address: PO Box 683
 Hooker, Okla . 73945
 Off. 888-543-8378 Cell: 620-600-0777



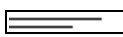
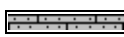
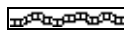



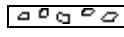



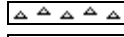

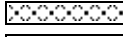




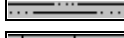


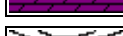
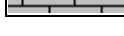

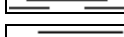



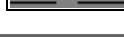
DST's Report

DST#1 3379'-3430' 5 60 30 120
 IF- SURFACE BLOW BUILDING TO 7 IN/ ISI- SURFACE BLOW DIED IN 20 MINUTES/ FF- BOB IN 3 1/2 MIN/
 FSI- SURFACE BLOW DIED IN 30 MINS
 IH- 1629, FH- 1520/ IF- 38 TO 63/ FF-48 TO 82/ ISI- 447, FSI- 428
 RECOVERY- 126' SOCM 10% GAS, 5% OIL, 85% MUD/ 10' CO 100% OIL/ 180 GIP
 SAMPLER- 2200 ML OIL, 2200 ML TOTAL

DST's Report

DST#2 3436'-3481' 5 60 30 120
 IF- BOB IN 3 1/2 MIN/ ISI- SURFACE BLOW DIED IN 12 MINS/
 FF- BOB IN 5 MIN/ FSI- SURFACE BLOW IN 1 MIN - 5" 24 MIN - BOB IN 79 MIN
 IH- 1662, FH- 1612/ IF- 33 TO 81/ FF- 60 TO 143/ ISI- 478, FSI- 467
 RECOVERY- 118' GASSY OMCW 10% GAS, 2% OIL, 83% WATER, 5% MUD/ 134' GASSY MWCO 10% GAS, 50%
 OIL, 30% WATER, 10% MUD/ 62' GASSY WMCO 10% GAS, 55% OIL, 10% WATER, 25% MUD/ 504' GIP
 SAMPLER- 2200 ML OIL, 2200 ML TOTAL

ROCK TYPES

 Anhy	 Gyp	 Shgy	 Sandylms
 Bent	 Igne	 Sltst	 Shale
 Brec	 Lmst	 Ss	 Sltstn
 Cht	 Meta	 Till	 Shlyslts
 Clyst	 Mrlst	 Carb sh	 Sltyslts
 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
- 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

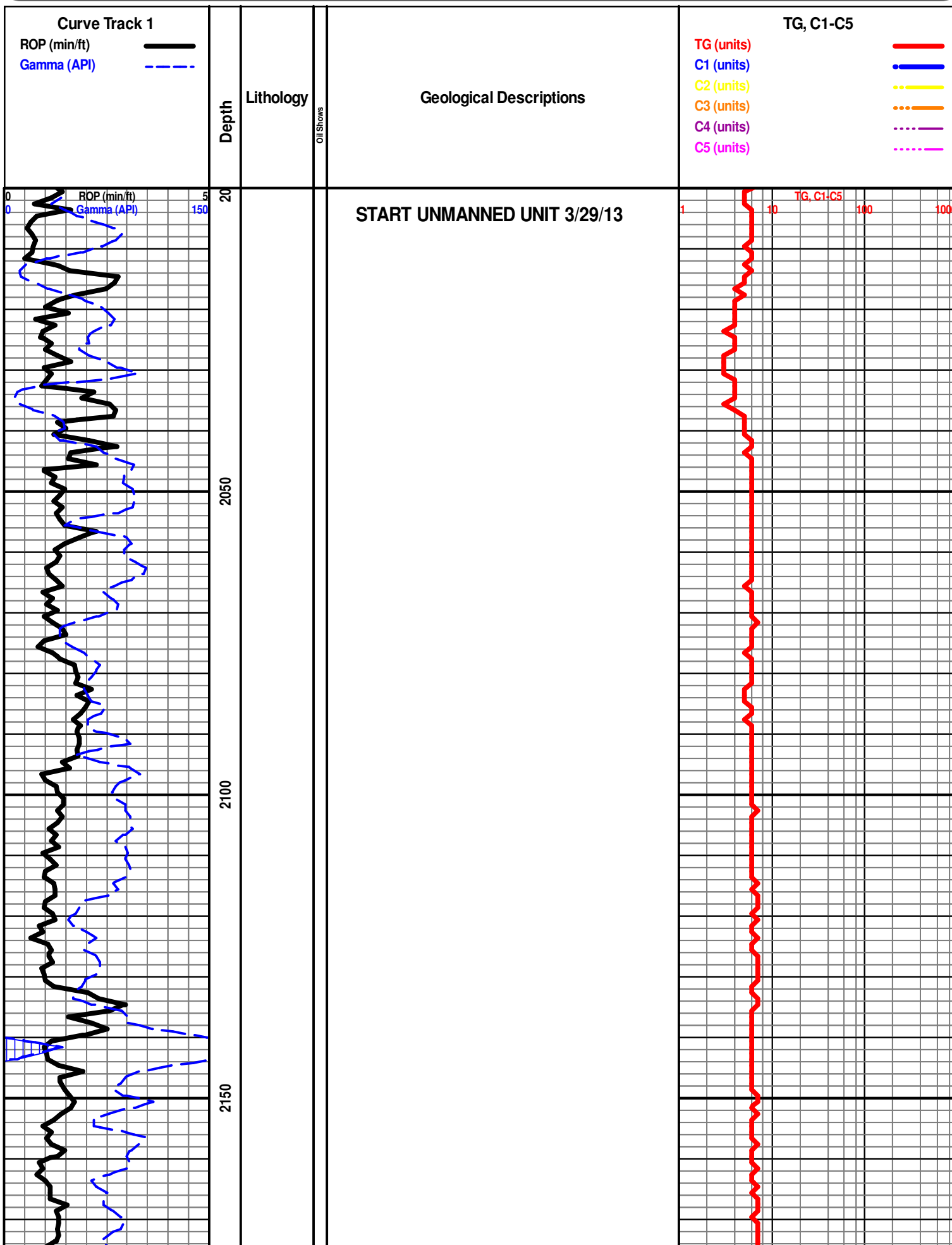
- Even
- Spotted
- Ques
- Dead
- Gas show

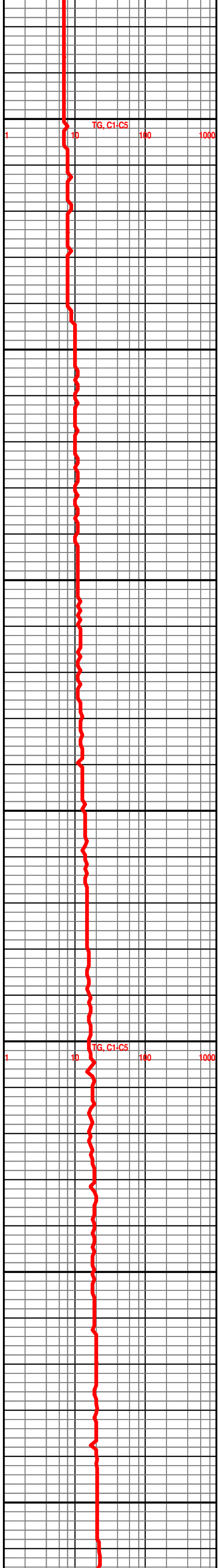
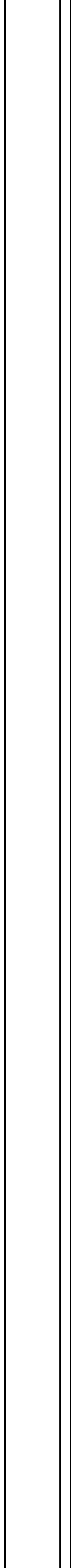
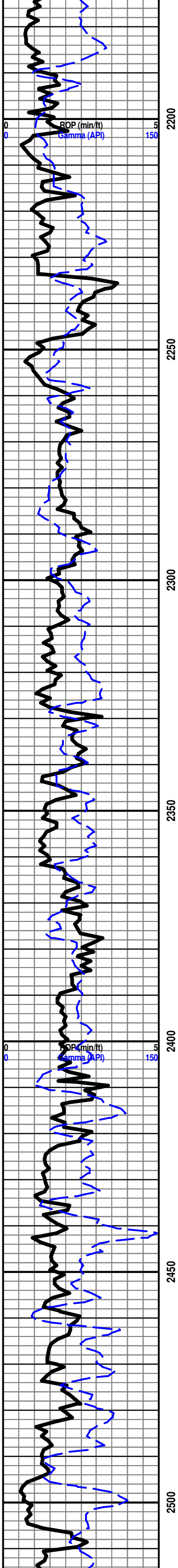
INTERVALS

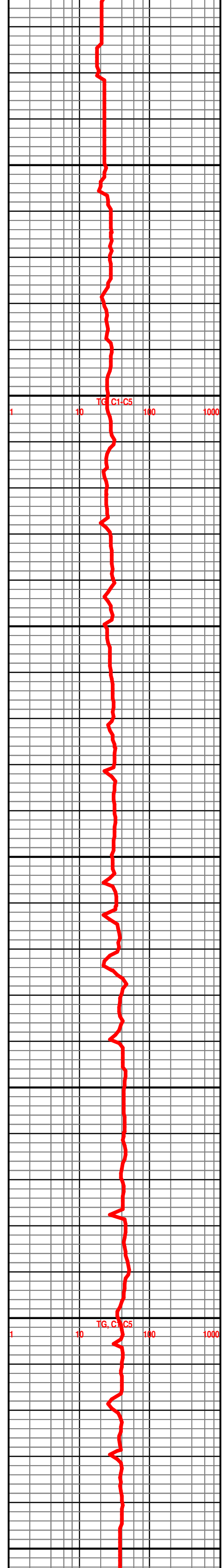
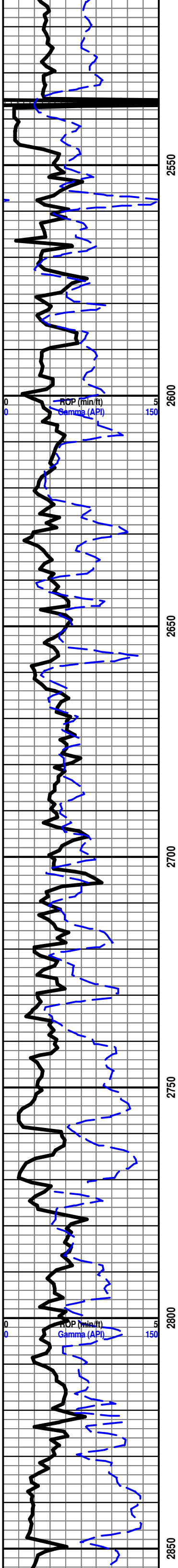
- Core
- Dst
- Dst

EVENTS

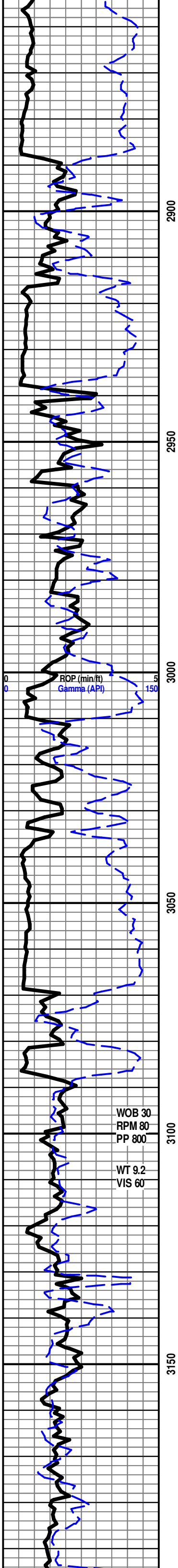
- Rft
- Sidewall







BRS 2888' -767'



START 24 HOUR MANNED UNIT 3/30/13

SH- RED GRN LT GY TO GY, FRM BLKY, SLTY TXT

LS- CRM TO LT TN, HD DNS TO BRIT IP, V/F TO F XLN RE-XLN MTRX, SCAT IMBD FOSS FRG IP, IMBD CALC XLS IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

SH- RED BRWN LT GY TO DK GY, FRM BLKY TO SFT GMMY, SMTH TO SLTY TXT

HOWARD 3069' -948'

LS- LT TN TO TN, HD DNS, V/F TO F XLN RE-XLN MTRX, S-SUCRO IP, SCAT IMBD FOSS FRG IP, SCAT IP CALC XLS IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

TOPEKA 3088' -967'

LS- CRM TO TN, HD DNS TO BRIT IP, V/F TO F XLN RE-XLN MTRX, S-SUCRO IP, IMBD FOSS FRG THRU, SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- LT TN TO LT GY, HD DNS TO BRIT IP, V/F TO F XLN RE-XLN MTRX, ABDT IMBD FOSS FRG THRU, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- LT TN TO LT GY, HD DNS TO BRIT, V/F TO F XLN RE-XLN MTRX, ABDT IMBD FOSS FRG THRU, SLI TR IMBD CALC XLS IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

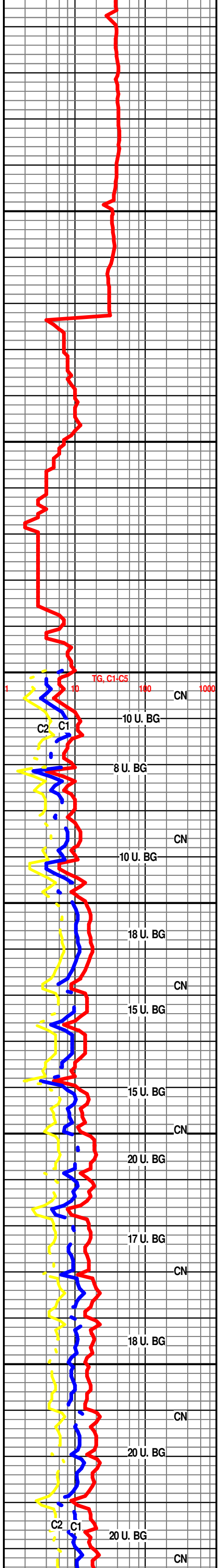
LS- OFF WHT TO LT TN, HD DNS TO BRIT, V/F TO F XLN RE-XLN MTRX, S-CHLKY, TR SCAT IMBD FOSS FRG IP, SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- LT TN TO TN, HD DNS TO BRIT, F XLN RE-XLN MTRX, S-CHLKY IP, SLI TR IMBD FOSS FRG IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

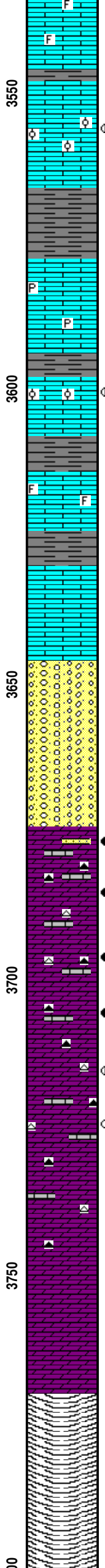
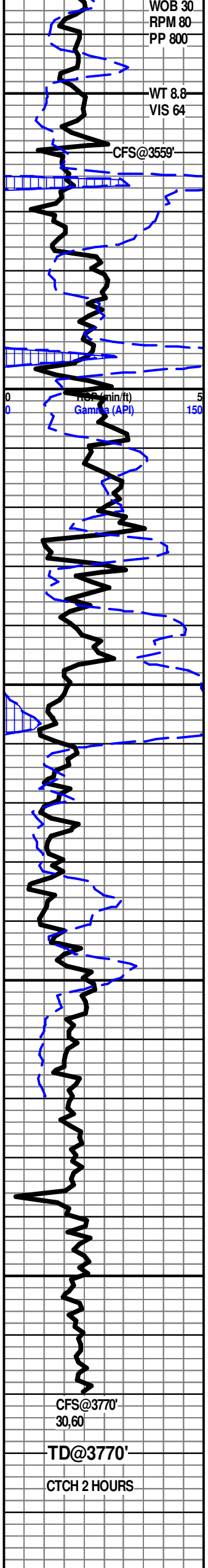
LS- LT TO TN, HD DNS, V/F TO F XLN SUCRO TMRX, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- OFF WHT TO TN, HD DNS TO BRIT IP, V/F TO F XLN RE-XLN MTRX, SCAT IMBD FOSS FRG IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- CRM TO TN, HD DNS TO BRIT IP, F TO MD XLN RE-XLN MTRX, S-CHLKY IP, TR SCAT IMBD FOSS FRG IP, SLI TR IMBD CALC XLS IP, TR SFT WHT CHLK IN TRAY, NO VIS FLO



WOB 30
RPM 80
PP 800
WT 9.2
VIS 60



LS- WHT TO CRM, HD DNS TO BRIT, F TO MD XLN RE-XLN MTRX, S-CHLKY, SCAT IMBD FOSS FRG IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

3555'-3557' LS- OFF WHT TO LT TN W/ TN OIL STN IN 65%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, IMBD OOL IP, DUL YEL GLD FLO IN 65%, FR TO GD VUG POR IN 4%, FR INTR OOL POR IN 3%, FR FLSH CUT IN 65%, FR TO GD SLW STRM IN 65%, LT TN LCH ON DISH

SH- GRN BRWN GY TO DK GY, FRM BLKY, SMTH TXT

LT- CRM TO LT TN, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, S-CHLKY IP, SCAT IMBD DISS PYR IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

3600'-3601' LS- OFF WHT TO CRM W/ TN OIL STN IN 40%, HD DNS TO V/BRIT, F XLN SUCRO MTRX, S-CHLKY, ABDT IMBD OOL THRU, DUL YEL GLD FLO IN 50%, FR TO GD INTR OOL POR IN 4%, FR TO GD VUG POR IN 2%, FR FLSH CUT IN 50%, FR SLW STRM IN 50%, TN LCH ON DISH

BKC 3609' -1488'

LS- LT TN TO TN, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, S-CHLKY IP, SCAT IMBD FOSS FRG IP, SLI TR DISS PYR IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- LT TN TO TN, HD DNS TO BRIT IP, F TO MD XLN RE-XLN MTRX, NO VIS FLO, NO VIS POR, NO VIS SHOW

CONG- LS- WHT TO LT TN, HD DNS TO BRIT, F XLN SUCRO MTRX, S-CHLKY, SCAT IMBD OOL IP, SH- GRN YEL BRWN TO GY, FRM BLKY TO SFT GMMY, SMTH TXT, CHRT OFF WHT TO CRM

ARBUCKLE 3674' -1553'

3675'-3679' DOLO- LT TN TO TN W/ DK TN OIL STN IN 95%, HD DNS TO V/BRIT, V/F SUCRO MTRX, ABDT IMBD V/F TO SM AND TO S-ANG DOLO GRNS THRU, TR IMBD SM S-ANG QRTZ XLS IP, LS IN TRAY, CRM YEL TO ORNG CHRT IN TRAY, DUL YEL GLD FLO IN 95%, V/GD INTR GRN POR IN 20%, V/GD FLSH CUT IN 95%, V/GD MLKY BLU SLW STRM IN 95%, DK TN LCH ON DISH, FR OIL ODOR

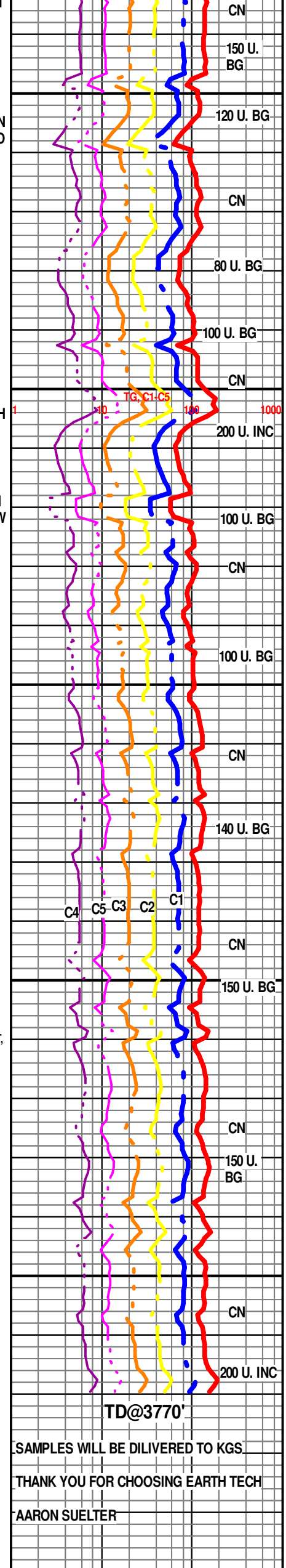
3683'-3685' DOLO- LT TN TO TN W/ DK TN OIL STN IN 95%, HD DNS TO V/BRIT, V/F SUCRO MTRX, ABDT IMBD V/F TO SM AND TO S-ANG DOLO GRNS THRU, LS IN TRAY, CRM YEL TO ORNG CHRT IN TRAY, DUL YEL GLD FLO IN 95%, V/GD INTR GRN POR IN 20%, V/GD FLSH CUT IN 95%, V/GD MLKY BLU SLW STRM IN 95%, DK TN LCH ON DISH, GD OIL ODOR

3695'-3698' DOLO- LT TN TO TN W/ TN OIL STN IN 80%, HD DNS TO V/BRIT, V/F TO F XLN SUCRO MTRX, ABDT IMBD F TO SM S-ANG TO ANG DOLO GRNS THRU, LS IN TRAY, CRM YEL TO ORNG CHRT IN TRAY, DUL YEL GLD FLO IN 80%, FR TO V/GD INTR GRN POR IN 15%, V/GD FLSH CUT IN 80%, V/GD SLW STRM IN 80%, DK TN LCH ON DISH, FR OIL ODOR

3706'-3708' DOLO LT TN TO TN W/ DK TN OIL STN IN 95%, HD DNS TO V/BRIT, V/F TO F XLN SUCRO MTRX, ABDT IMBD V/F TO SM S-ANG TO S-RND DOLO GRNS THRU, LS IN TRAY, CRM YEL TO ORNG CHRT IN TRAY, DUL YEL GLD FLO IN 95%, GD INTR GRN POR IN 15%, GD FLSH CUT IN 95%, V/GD SLW STRM IN 95%, DK TN LCH ON DISH, FR OIL ODOR

3715'-3716' DOLO- CRM TO LT TN W/ DK TN OIL STN IN 60%, HD DNS TO BRIT, V/F TO F XLN SUCRO MTRX, ABDT IMBD S-ANG TO S-RND DOLO GRNS THRU, LS IN TRAY, CRM YEL TO ORNG CHRT IN TRAY, DUL YEL GLD FLO IN 60%, GD INTR GRN POR IN 15%, GD FLSH CUT IN 60%, GD SLW STRM IN 60%, DK TN LCH ON DISH, WK OIL ODOR

3723'-3725' DOLO- OFF WHT TO CRM W/ TN OIL STN IN 10%, DOS IN 10%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, ABDT IMBD SM TO MD S-ANG TO S-RND DOLO GRNS THRU, LS IN TRAY, CRM TO ORNG CHRT IN TRAY, DUL YEL GLD FLO IN 15%, FR TO GD INTR GRN POR IN 10%, FR TO GD FLSH CUT IN 15%, FR TO GD SLW STRM IN 15%



CFS@3770
30,60
TD@3770'
CTCH 2 HOURS

R.T.D. @ 9:30 PM 4/2/13
DROP SURVEY
TOFL
WEATHERFORD/LIBERAL

TD@3770'
SAMPLES WILL BE DELIVERED TO KGS
THANK YOU FOR CHOOSING EARTH TECH
AARON SUELTER