



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1171260
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: _____



1171260

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	CANDACE 1-24
Doc ID	1171260

All Electric Logs Run

DEN-NEUT
INDUCTION
MICRO
SONIC
SPECTRAL

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

December 03, 2013

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

Re: ACO1
API 15-051-26579-00-00
CANDACE 1-24
SW/4 Sec.24-15S-16W
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: 8/14/2013
 Invoice # 7287

P.O.#:
 Due Date: 9/13/2013
 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

AUG 28 2013

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

Reference:
 CANDACE 1-24

Description of Work:
 LONG SURFACE JOB

DRLG COMP W/O LOE GG

Account	8200-138
Well/Prospect	
Deck	
AFE	<i>[Signature]</i>
Approval	<i>[Signature]</i>
Description	

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 991.39	No				
Common-Class A	350	\$ 5,700.00	Yes				
8 5/8" Basket	3	\$ 1,029.26	Yes				
Bulk Truck Matl-Material Service Charge	370	\$ 803.43	No				
Calcium Chloride	13	\$ 672.69	Yes				
8 5/8" Centralizer	3	\$ 208.46	Yes				
Pump Truck Mileage-Job to Nearest Camp	19	\$ 205.87	No				
Premium Gel (Bentonite)	7	\$ 123.73	Yes				
8 5/8" Top Rubber Plug	1	\$ 115.09	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	19	\$ 120.47	No				
Baffle Plate Aluminum, 8 5/8"	1	\$ 97.71	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 10,068.09
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,510.21)

SubTotal for Taxable Items:	\$ 6,754.89
SubTotal for Non-Taxable Items:	\$ 1,802.99
Total:	\$ 8,557.88
Tax:	\$ 415.43

6.15% Ellis County Sales Tax

Thank You For Your Business!

Amount Due: \$ 8,973.31
Applied Payments:
Balance Due: \$ 8,973.31

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. 7287

Date	8-14-13	Sec.	24	Twp.	15	Range	16	County	Ellis	State	KS	On Location		Finish	9:30 AM		
Location								Walker S to Chealon Cold 2 E 15									
Lease	Candace			Well No.	1-24			Owner	1/2 E Sinto								
Contractor	Val #6			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 Gary Jr + Assoc					
Hole Size	12 1/4			T.D.	778'			Street									
Csg.	8 5/8			Depth	778'			City								State	
Tbg. Size				Depth				The above was done to satisfaction and supervision of owner agent or contractor.									
Tool				Depth				Cement Amount Ordered								350 3+2	
Cement Left in Csg.	42.50			Shoe Joint	42.50			Cement Amount Ordered								350 3+2	
Meas Line				Displace	46 3/4 bbl												
EQUIPMENT								Common								350	
Pumptrk	16	No.		Cementer	Billy			Poz. Mix									
Bulktrk	13	No.		Helper	Billy			Gel.								7	
Bulktrk	PU	No.		Driver	Lonnie M			Calcium								13	
Bulktrk	PU	No.		Driver	Brett			Hulls									
JOB SERVICES & REMARKS								Salt									
Remarks:	Candace 1-24			Flowseal													
Rat Hole				Kol-Seal													
Mouse Hole				Mud CLR 48													
Centralizers	1.			CFL-117 or CD110 CAF 38													
Baskets				Sand													
D/V or Port Collar				Handling								370					
								Mileage								8 5/8	
								FLOAT EQUIPMENT									
Cement								Guide Shoe									
Circulated!								Centralizer								- 3	
Thanks								Baskets								- 3	
								AFU Inserts									
								Float Shoe									
								Latch Down									
								Rubber Plug								- 1	
								Baffle Plate								- 1	
								Pumptrk Charge								Long Surface	
								Mileage								19	
Signature								Rik Smith								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: 8/19/2013
 Invoice # 7449

P.O.#:
 Due Date: 9/18/2013
 Division: Russell

Invoice

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

RECEIVED

AUG 28 2013

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

Reference:
 CANDACE 1-24

Description of Work:
 PLUG JOB

DRLG COMP W/O LOE GG

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

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 1,020.55	Yes				
Common-Class A	150	\$ 2,514.71	Yes				
POZ Mix-Standard	100	\$ 704.12	Yes				
Bulk Truck Matl-Material Service Charge	259	\$ 578.94	Yes				
Pump Truck Mileage-Job to Nearest Camp	19	\$ 211.93	Yes				
Premium Gel (Bentonite)	9	\$ 163.76	Yes				
Flo Seal	62	\$ 138.59	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	19	\$ 124.01	Yes				
Dry Hole Plug	1	\$ 62.59	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 5,519.19
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (827.88)

SubTotal for Taxable Items:	\$ 4,691.31
SubTotal for Non-Taxable Items:	\$ -
Total:	\$ 4,691.31
Tax:	\$ 288.52

6.15% Ellis County Sales Tax

Thank You For Your Business!

Amount Due: \$ 4,979.83
Applied Payments:
Balance Due: \$ 4,979.83

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. 7449

Date	8-19-13	Sec.	24	Twp.	15	Range	16	County	Ellis	State	KS	On Location		Finish	5:00 PM
------	---------	------	----	------	----	-------	----	--------	-------	-------	----	-------------	--	--------	---------

Location Walker S to Chetolah Gold Rd, 2E, 1S, 1/2E

Lease Candace Well No. 1-24 Owner Sinto

Contractor Val #6 To Quality Oilwell Cementing, Inc.
You are hereby requested to rent cementing equipment and furnish
Type Job Plug cementer and helper to assist owner or contractor to do work as listed.

Hole Size 7 3/8 T.D. Charge To Sam Gary JR.

Csg. Depth Street

Tbg. Size Depth City State

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

Cement Left in Csg. Shoe Joint Cement Amount Ordered 250sx 60/40 4% gel 1/4# Flu

Meas Line Displace

EQUIPMENT

Pumptrk 5 No. Cementer Helper Lonnie W. Common 150

Bulktrk 14 No. Driver Driver Claton Poz. Mix 100

Bulktrk P4 No. Driver Driver Travis Gel. 9

Calcium

JOB SERVICES & REMARKS

Remarks: Halls

Rat Hole 30sx Salt

Mouse Hole 15sx Flowseal 62#

Centralizers Kol-Seal

Baskets Mud CLR 48

D/V or Port Collar CFL-117 or CD110 CAF 38

50 sx at 3410 Sand

25 sx at 975 Handling 259

40 sx at 830 Mileage

80 sx at 355

10 sx at 40 with wood plug

FLOAT EQUIPMENT

Guide Shoe

Centralizer

Baskets

AFU Inserts

Float Shoe

Latch Down

1 wood plug

Pumptrk Charge plug

Mileage 19

Tax

Discount

Total Charge

X Signature Andy D. ...



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Sam Gary Jr & Associates

24-15S-16W-Ellis Co

1515 Wynkoop Ste 700
Denver CO 80202

Candace #1-24

Job Ticket: 54389

DST#: 1

ATTN: Chris Mitchell

Test Start: 2013.08.19 @ 00:55:13

GENERAL INFORMATION:

Formation: **H**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:43:13
 Time Test Ended: 08:25:33
 Interval: **3256.00 ft (KB) To 3280.00 ft (KB) (TVD)**
 Total Depth: 3530.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Straddle (Initial)
 Tester: Tate Lang
 Unit No: 41
 Reference Elevations: 1866.00 ft (KB)
 1856.00 ft (CF)
 KB to GR/CF: 10.00 ft

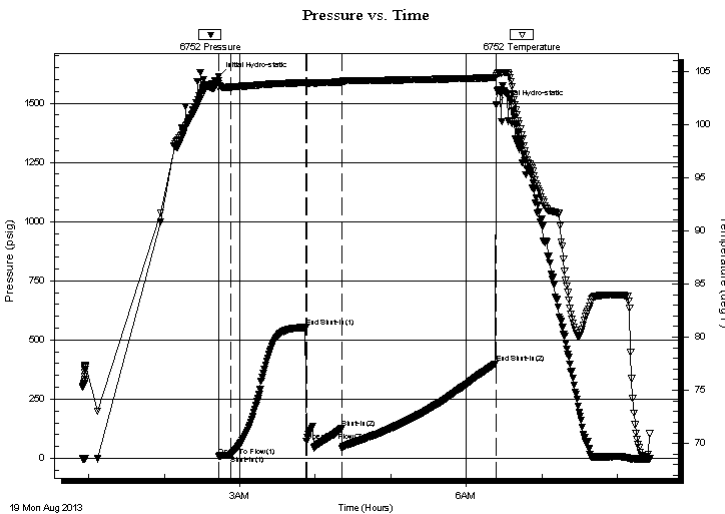
Serial #: 6752

Inside

Press @ Run Depth: 126.63 psig @ 3257.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.08.19 End Date: 2013.08.19 Last Calib.: 2013.08.19
 Start Time: 00:55:14 End Time: 08:25:33 Time On Btm: 2013.08.19 @ 02:43:03
 Time Off Btm: 2013.08.19 @ 06:23:33

TEST COMMENT: Weak surface blow built to 1/4 in.
 Dead no blow back
 Dead no blow
 Dead no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1611.82	103.86	Initial Hydro-static
1	8.78	103.48	Open To Flow (1)
10	13.99	103.54	Shut-In(1)
69	552.87	103.95	End Shut-In(1)
70	70.46	103.88	Open To Flow (2)
98	126.63	104.02	Shut-In(2)
221	400.33	104.41	End Shut-In(2)
221	1492.92	104.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	3%O 97%M	0.28

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Sam Gary Jr & Associates

24-15S-16W-Ellis Co

1515 Wynkoop Ste 700
Denver CO 80202

Candace #1-24

Job Ticket: 54389

DST#: 1

ATTN: Chris Mitchell

Test Start: 2013.08.19 @ 00:55:13

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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	3%O 97%M	0.281

Total Length: 20.00 ft Total Volume: 0.281 bbl

Num Fluid Samples: 0

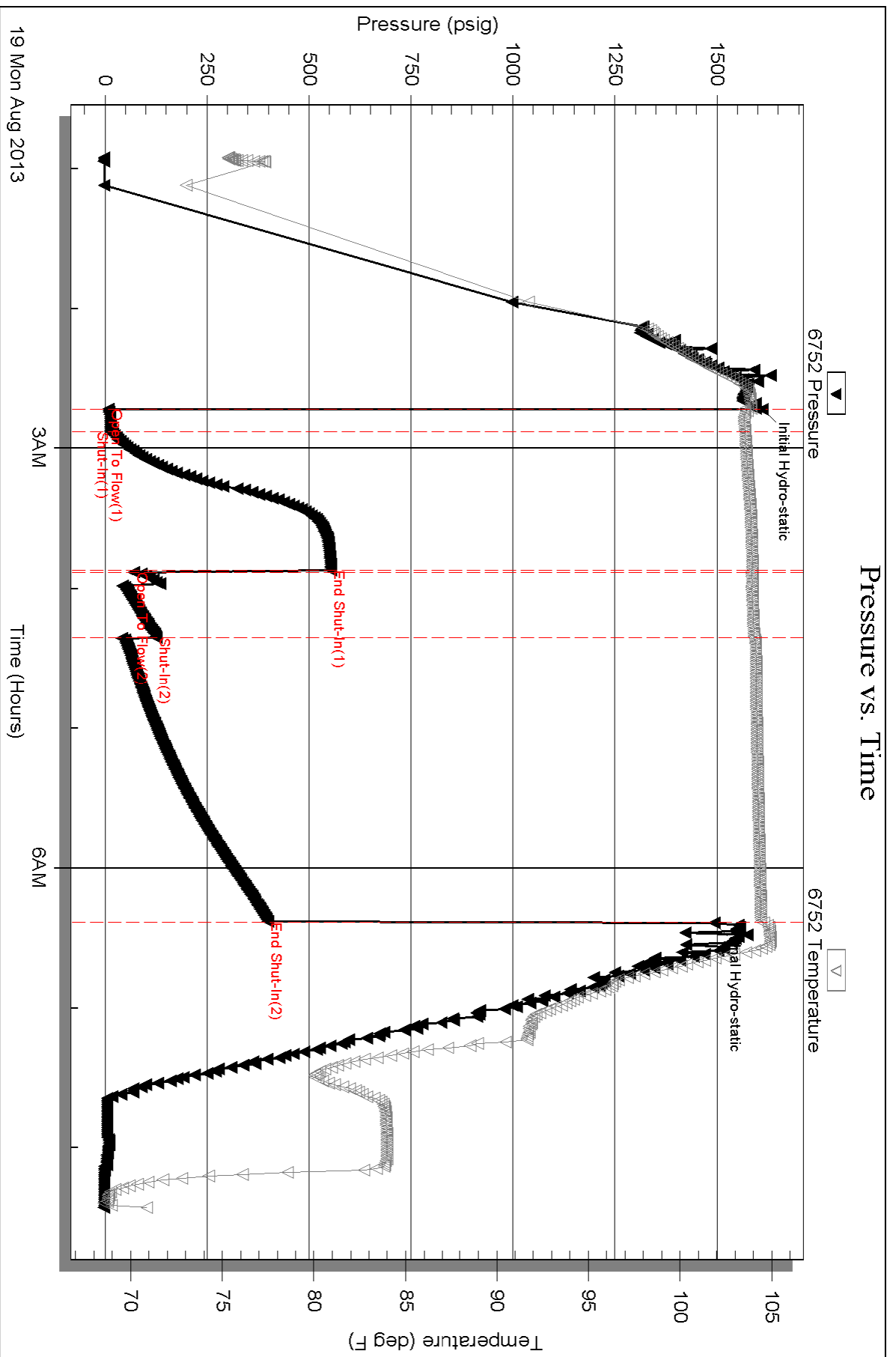
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



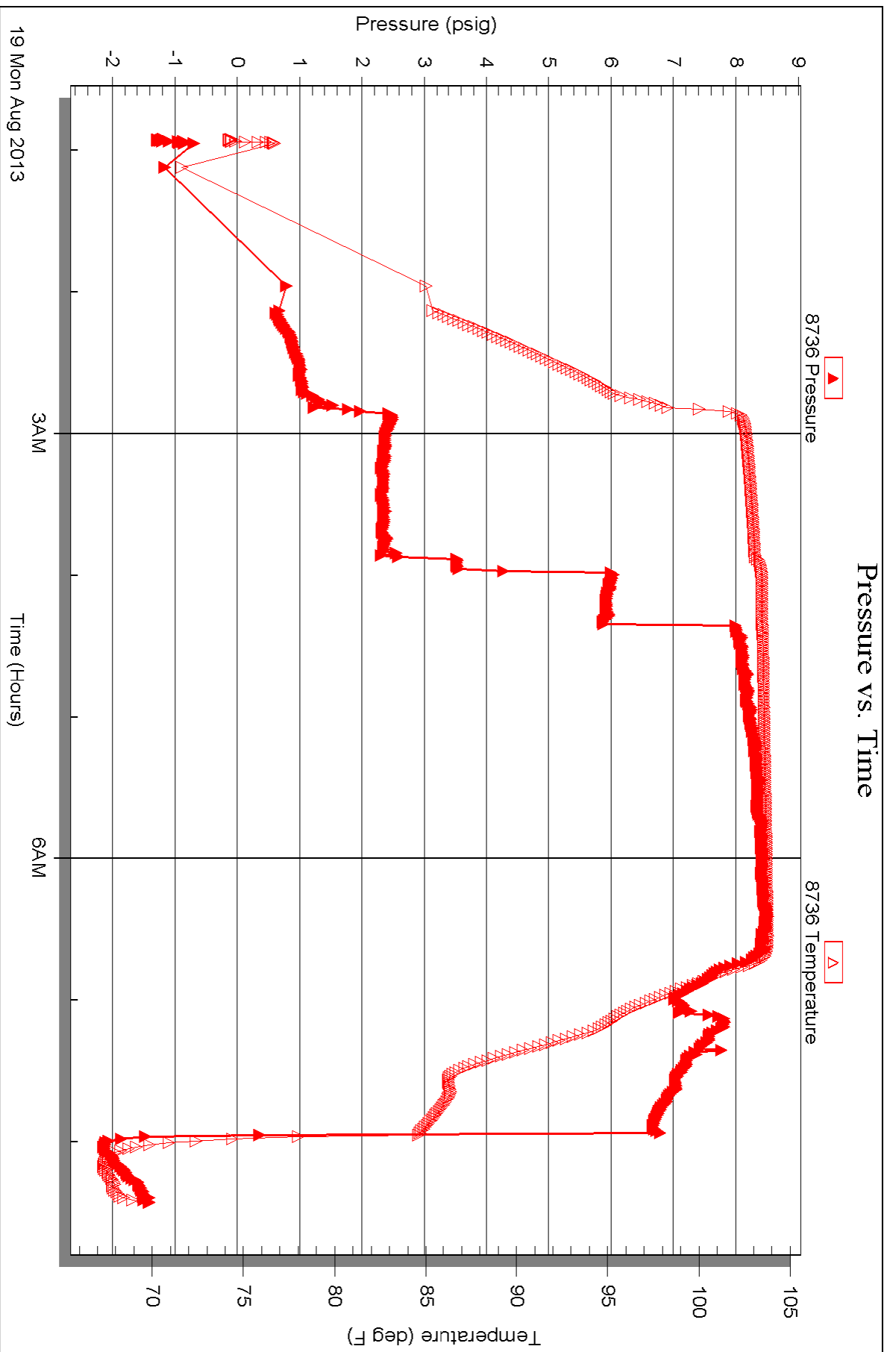
Serial #: 8736

Fluid

Sam Gary Jr & Associates

Candace #1-24

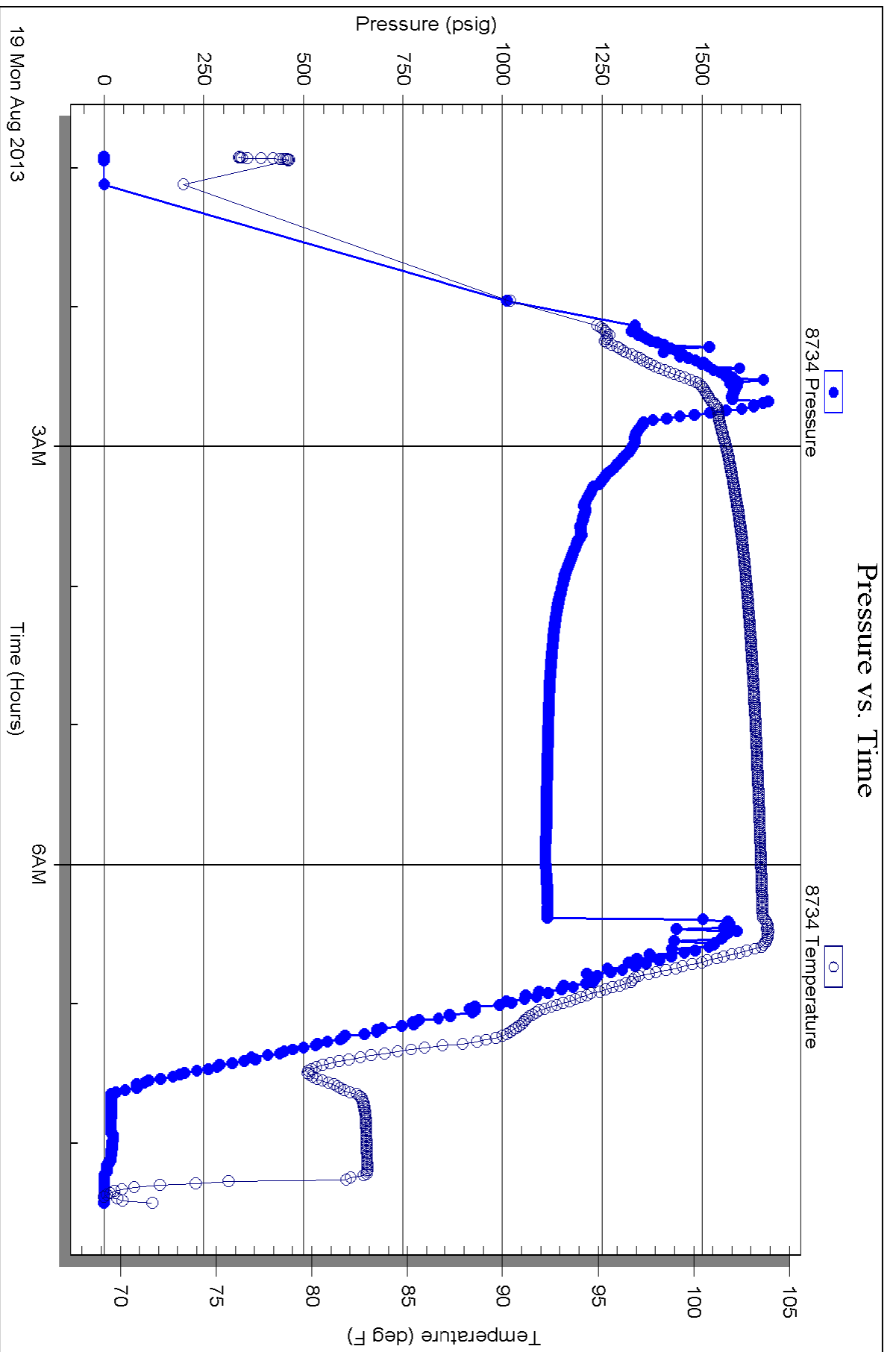
DST Test Number: 1



Triobite Testing, Inc

Ref. No: 54389

Printed: 2013.08.19 @ 08:54:23





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

Well Name: Candace 1-24
 Location: Sec. 24-15s-16w, Ellis County, Kansas
 License Number: 15-051-26579
 Spud Date: 8/6/2013
 Surface Coordinates: 2000' FsL, 865' FwL
 Region: WILDCAT
 Drilling Completed: 8/18/2013

Bottom Hole Coordinates:
 Ground Elevation (ft): 1858' K.B. Elevation (ft): 1866'
 Logged Interval (ft): 1800' To: 3530' Total Depth (ft): 3530'
 Formation:
 Type of Drilling Fluid:

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

CORE

Contractor:
 Core #:
 Formation:
 Core Interval: From: Cut:
 To: Recovered:
 Bit type:
 Size:
 Coring Time:

OPERATOR

Company: SAMUEL GARY JR & ASSOC.
 Address: 1515 WYNKOOP ST, STE 700
 DENVER, COLORADO 80202
 CO. GEO;

GEOLOGIST

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



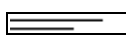
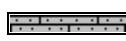
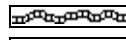



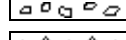



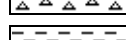



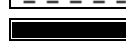




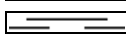
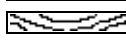


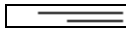




DST's Report

DST #1 3256'-3280' 10 60 30 120
 IF- WK BLO/ IST-NB/ FF-NB/ FS-INB
 IH1612, FH-1493/ IF 9 TO 14, FF76 TO 127/ ISI 553/ FSI 400
 RECOVERY- 20' V50CM 3%O 97%M
 CHLORIDES 4500PPM
 SAMPLER RECOVERY-PLUGGED NOTHING COME OUT, 90 PSI

DST's Report

DST's Report

ROCK TYPES

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

ACCESSORIES

MINERAL

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

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

FOSSIL

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

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

STRINGER

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

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

TEXTURE

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

OTHER SYMBOLS

POROSITY TYPE

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

SORTING

- Well
- Moderate
- Poor

ROUNDING

- Rounded
- Subrnd
- Subang

- Angular

OIL SHOWS

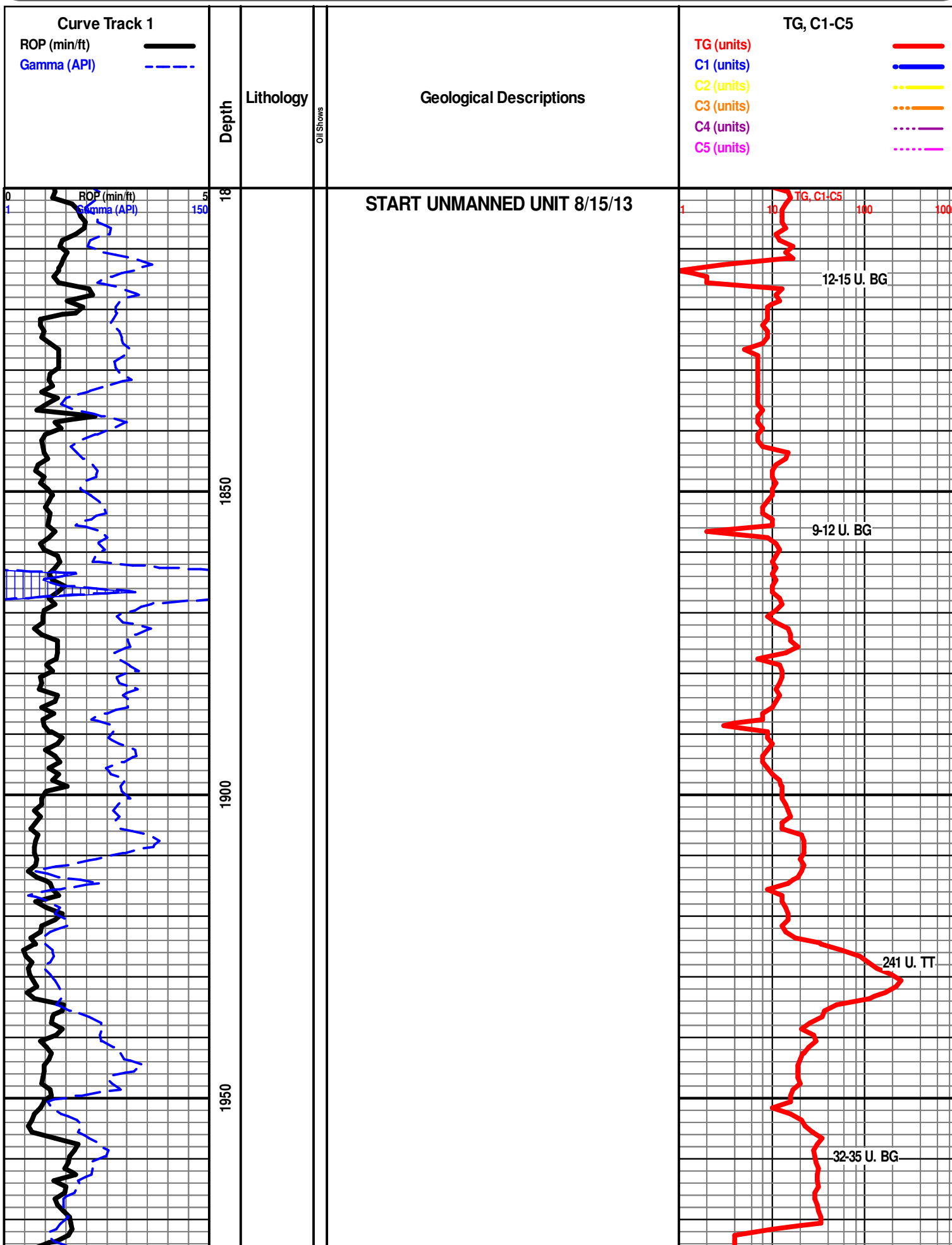
- Even
- Spotted
- Ques
- Dead
- Gas show

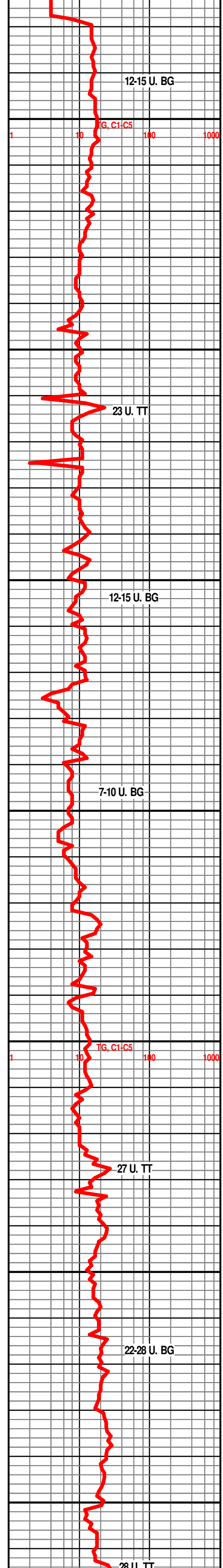
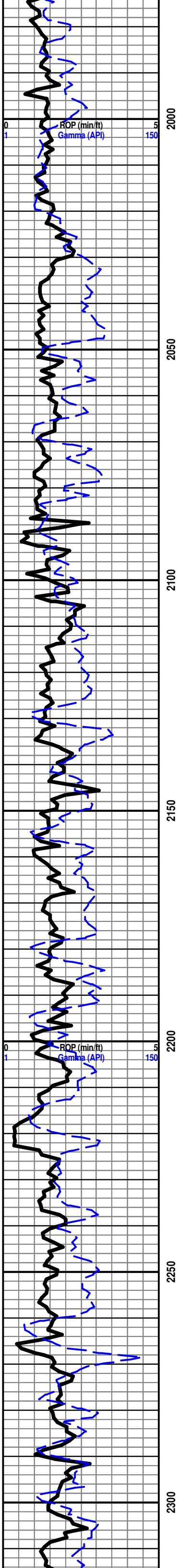
INTERVALS

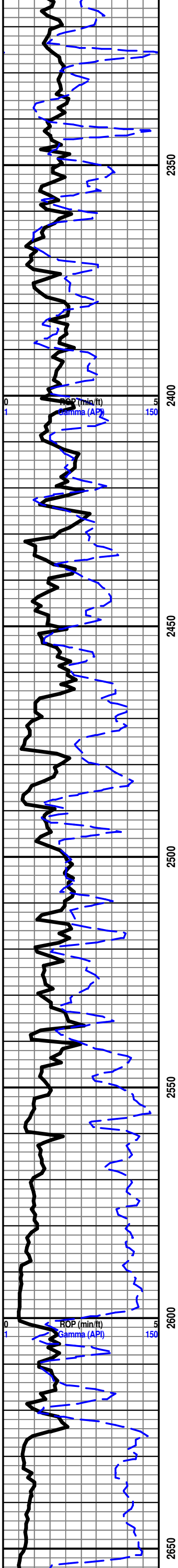
- Core
- Dst
- Dst

EVENTS

- Rft
- Sidewall







2350

2400

2450

2500

2550

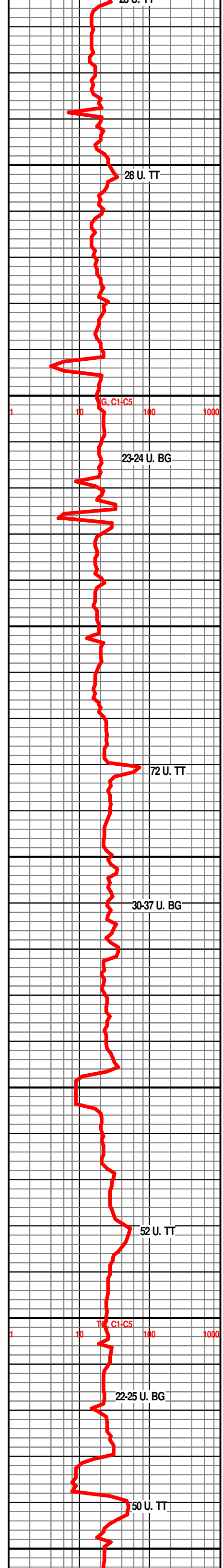
2600

2650

BOP (min/ft)
Gamma (API)

BOP (min/ft)
Gamma (API)

BASE ROOT SHALE 2601' -735'



28 U. TT

23-24 U. BG

72 U. TT

30-37 U. BG

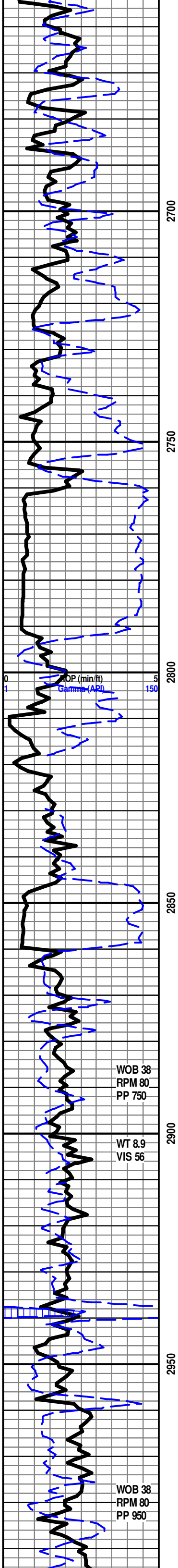
52 U. TT

22-25 U. BG

50 U. TT

10 100 1000

10 100 1000



2700

2750

2800

2850

2900

2950

HOWARD 2793' -927'

START 24 HR MANNED UNIT ON 8/16/2013

LS- OFF WHT WHT CRM, HD DNSE TO SLI BRITT IP, FN-XLN TO SLI RE-XLN MTRX IP, SCATT TRS IMBD GRY SH IP, TRS IMBD FOSS FRGS IP, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

SEVERY 2846' -980'

SH- GRY TO MOTTED DRK GRY IP, FRM TO SFT BRITT IP, SPLNTY TO BLKY IP

TOPEKA 2861' -995'

LS- OFF WHT TO LT GRY, HD DNSE TO BRIT IP, FN-XLN TRS RE-XLN, IMBD FOSS FRGS IP, DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

WOB 38
RPM 80
PP 750

WT 8.9
VIS 56

LS- OFF WHT WHT TO LT GRY, HD DNSE, FN-XLN TO SLI MD-XLN, SLI SUB-CHLKY IP, TRS IMBD FOSS FRGS IP, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

LS- OFF WHT LT GRY GRY, HD DNSE, SLI MD-FN-XLN RE-XLN MTRX, TRS SFT GMMY CHLK IN TRAY, SCATT IMBD DISS GRY SH, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

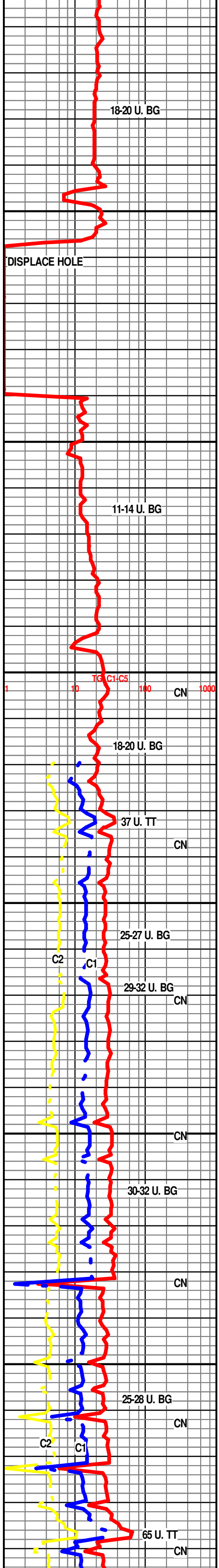
SH- DRK GRY TO BLK, SFT BRITT TO FRM, BLKY TO SLI SPLNTY, TRS BLK CARB IN TRAY

LE COMPTON 2959' -1093'

LS- OFF WHT WHT TO CRM IP, HD DNSE, FN-XLN TO V/ FN-XLN, RE-XLN MTRX IP, IMBD DISS GRY SH IP, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

WOB 38
RPM 80
PP 950

SH- DRK GRY TO BLK, SFT BRITT TO FRM IP, SMTH BLKY TO SPLNTY, BLK CARB IN TRAY



18-20 U. BG

DISPLACE HOLE

11-14 U. BG

18-20 U. BG

37 U. TT

25-27 U. BG

29-32 U. BG

30-32 U. BG

25-28 U. BG

65 U. TT

TO C1-C5

CN

1000

CN

CN

CN

CN

CN

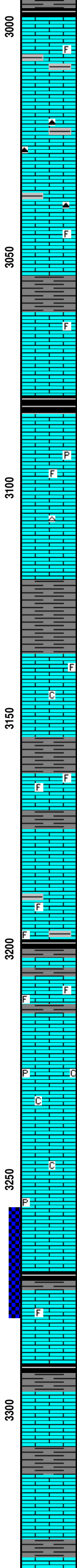
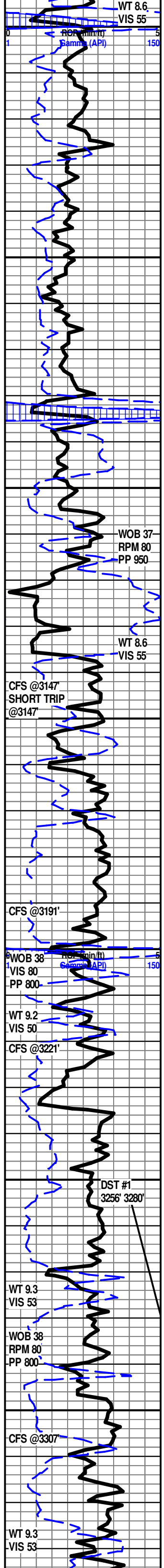
CN

C2

C1

C2

C1



LS- OFF WHT CRM TO MOTTED GRY, HD DNSE, FN-MD-XLN SLI RE-XLN, IMBD FOSS FRGS IP, SCATT IMBD GRY SH, TRS TN CHRT IN TRAY, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

LS- WHT CRM TO LT GRY IP, HD DNSE, FN-XLN TO V/ FN-XLN SLI RE-XLN, TRS IMBD FOSS FRGS, LT TN TN CHRT IN TRAY, DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

LS- OFF WHT WHT, HD DNSE TO SLI BRITT IP, FN-XLN TO SUCRO MTRX, IMBD FOSS FRGS IP, DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

HEEBNER 3080' -1214'
SH- BLK SFT CARB

LS- WHT TO OFF WHT CRM, V/ HD DNSE TO SLI BRITT IP, TRS IMBD PYR IP, TRS IMBD FOSS FRGS IP, DLL YEL FLO IP, NO VIS POR, NO VIS CUT OR SHOW

LS- WHT, V/ HD DNSE, FN-XLN TO V/ FN-XLN SLI RE-XLN MTRX, TRS WHT CHRT IN TRAY, DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

DOUGLAS 3117' -1251'
SH- MD GRY TO GRY, SLI FRM TO SFT BRIT SLI GMMY IP, SPLNTY TO SLI BLKY IP

LANSING 3137' -1271'
LS- OFF WHT WHT CRM BFF, HD DNSE, FN-XLN TO SLI MD-XLN, SLI SUB-CHLKY IP, RE-XLN MTRX IP, IMBD FOSS FRGS IP, DLL YEL FLO IN 20%, NO VIS POR, NO VIS CUT OR SHOW

LANSING "C" 3163' -1297'
LS- OFF WHT CRM TO LT TN, HD DNSE, FN-XLN, RE-XLN MTRX IP, TRS IMBD FOSS FRGS IP, DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

LS- OFF WHT WHT CRM, V/ HD DNSE, V/FN-XLN TO FN-XLN, SLI RE-XLN MTRX IP, TRS SMLL IMBD CALC XLS IP, V/ DLL YEL FLO IP, NO VIS POR, NO VIS CUT OR SHOW

3193'-3197' LS- OFF WHT CRM TO MOTTED GRY (W/ TN OIL STAIN ON 35%), HD DNSE TO V/ BRITT IP SUB-SUCRO MTRX IP, SCATT IMBD FOSS FRGS IP, TRS IMBD GRY SH, TRS IMBD PYR IP, BRIT YEL GLD FLO IN 66%, TRS SMLL VUG POR IP, PR FLSH CUT TO GD SLW STRM CUT IN 45%, GD OIL ODOR

LANSING "F" 3207' -1341'
3211'-3215' LS- OFF WHT CRM TO TN (W/ DRK TN TN OIL STAIN ON 40%), HD DNSE TO BRITT, MD-XLN TO SUCRO MTRX IP, IMBD FOSS FRGS IP, IMBD CALC XLS IP, BRIT YEL GLD FLO IN 35% TO NO FLO, TRS INTER-XLN POR IN 10%, PR FLSH CUT, FR IN 10%, FR OIL ODOR,

LS- OFF WHT WHT CRM, HD BRITT, MD-XLN TO SUB-CHLKY, SCATT IMBD CHLK IP, TRS IMBD PYR, DLL YEL MIN FLO, NO VIS POR, NO VIS CUT OR SHOW

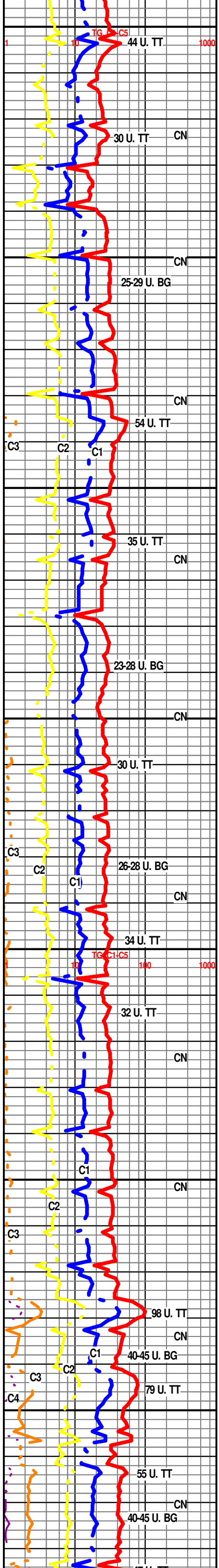
LS- OFF WHT WHT TO GREY, HD DNSE, FN-XLN SUB-CHLKY MTRX, SCATT IMBD CHLK IP, IMBD PYR, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

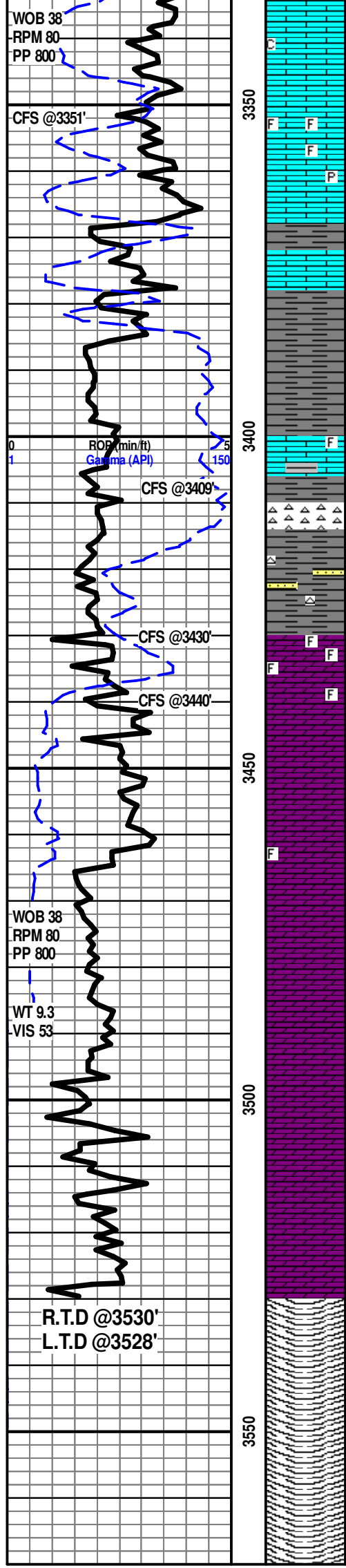
LANSING "H" 3274' -1408'
LS- WHT TO SLI OFF WHT (W/ TN OIL STAIN ON 15%), HD DNSE, FN-XLN TO MD-FN-XLN SLI RE-XLN MTRX, TRS IMBD FOSS FRGS IP, DLL YEL FLO IP, NO VIS POR, NO VIS CUT OR SHOW

3296'-3298' LS- OFF WHT WHT (W/ DRK TN OIL STAIN ON 25%), HD DNSE, MD-XLN RE-XLN MTRX, TRS IMBD CALC XLS IP, BRIT YEL GLD FLO IN 20%, INTER XLN POR IN 15% VUG POR IN 15% W/ LIVE OIL, GD FLSH CUT IN 40%, PR TO FR SLW STRM CUT IN 35%, FR OIL ODOR

LS- TN TO OFF WHT, HD DNSE, V/ FN-XLN TO FN-XLN, IMBD CALC XLS IP, DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

LS- OFF WHT WHT TO TN (W/ LT TN ON 10%), TRS DOS ON





LS-OFF WHT WHT TO TR (W/ LT TR ON 10% TRS DCS ON 5%), HD DNSE, FN-XLN TO FN-MD-XLN RE-XLN IP SLI SUCRO MTRX, SLI TRS IMBD CHLK IP, BRIT YEL GLD FLO IN 30%, NO VIS POR, NO FLSH CUT V/ PR SLW STRM CUT IN 5%, PR OIL ODOR, TRS LIVE OIL FLOATING IN TRAY

LS-OFF WHT WHT, HD DNSE, FN-XLN TO MD-XLN IP, ABDT IMBD FOSS FRGS IP, TRS IMBD PYR IP, DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

BKC 3372' -1506'

SH- RED TO GRY, FRM TO SFT V/ GMMY, BLKY

LS- OFF WHT TO RED IP, HD DNSE TO BRITT IP, IMBD RED SH, IMBD FOSS FRGS IP, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

CHRT- WHT TO CRM, V/ HD DNSE, V/V/ FN-XLN, ABDT IMBD FOSS FRGS IP, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

SH- RED, FRM TO SFT V/ GMMY, TRS SMLL TO MD GRNS IN TRAY, TRS WHT CHRT IN TRAY, BLKY

ARBUCKLE 3430' -1564'

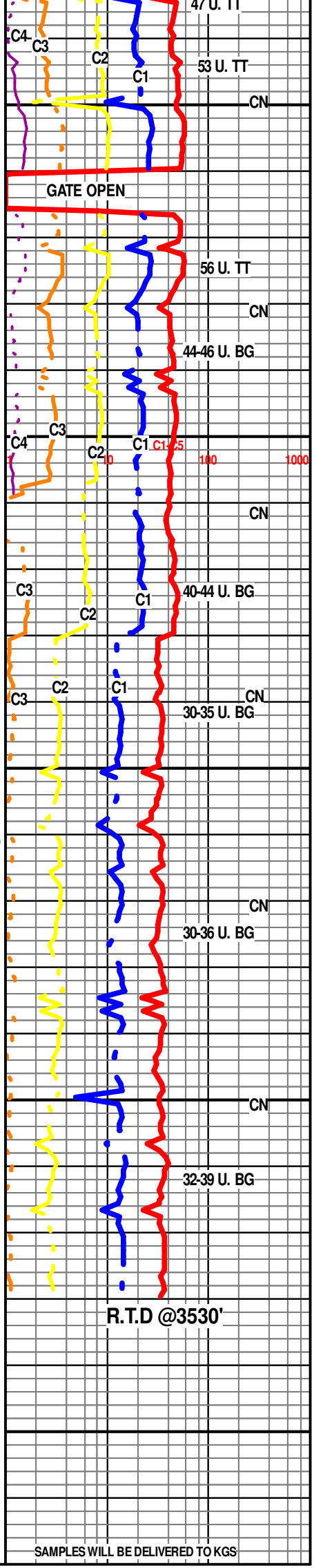
DOL- WHT OFF WHT (W/ BLK OIL STAIN ON 10% TRS BLK TAR ON 5%), V/ HD DNSE, CRS SUCRO MTRX TO FN-XLN, ABDT IMBD SMLL FOSS FRGS THRU IP, NO VIS FLO, SCATT INTER XLN POR, NO VIS FLUSH CUT TO GD SLW STRM CUT IN 25%, NO ODOR

DOL- WHT, HD DNSE, MD-XLN SUCRO MTRX IP, TRS IMBD SMLL FOSS FRGS IP, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

DOL- WHT, HD DNSE, MD-XLN CRS SUCRO IP, DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

DOL- WHT OFF WHT TO LT GRY, HD DNSE, FN-XLN TO MD-XLN, IMBD DOL XLS IP, DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

R.T.D 3530' @1:50 P.M 08/18/13
 CFS @3530'
 CTCH FOR LOGS



SAMPLES WILL BE DELIVERED TO KGS