



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1101168
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: _____



1101168

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

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	GLASSMAN 2-16
Doc ID	1101168

All Electric Logs Run

DIL
MICRO
POR
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

November 15, 2012

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

Re: ACO1
API 15-051-26342-00-00
GLASSMAN 2-16
SW/4 Sec.16-12S-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,
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: 7/29/2012
 Invoice # 709

P.O.#:
 Due Date: 8/28/2012
 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:
 GLASSMAN 2-16

Description of Work:
 LONG SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 977.42	No				
Common-Class A	350	\$ 4,570.70	Yes	Baffle Plate Aluminum, 8 5/8"	1	\$96.34	Yes
8 5/8" Basket	3	\$ 1,014.76	Yes				
Bulk Truck Matl-Material Service Charge	379	\$ 811.38	No				
Calcium Chloride	13	\$ 663.21	Yes				
8 5/8" Centralizer	3	\$ 205.52	Yes				
Flo Seal	87	\$ 186.25	Yes				
Pump Truck Mileage-Job to Nearest Camp	18	\$ 192.29	No				
Premium Gel (Bentonite)	7	\$ 121.99	Yes				
8 5/8" Top Rubber Plug	1	\$ 113.46	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	18	\$ 112.52	No				

Invoice Terms:

Net 30

SubTotal: \$ 9,065.86

Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,359.88)

SubTotal for Taxable Items: \$ 5,926.40

SubTotal for Non-Taxable Items: \$ 1,779.58

Total: \$ 7,705.98

Tax: \$ 373.36

Amount Due: \$ 8,079.34

Applied Payments:

Balance Due: \$ 8,079.34

Thank You For Your Business!

6.30% Ellis County Sales Tax

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

AUG 09 2012

SAMUEL GARY JR.
 & ASSOCIATES, INC.

DRLG COMP W/O LOE GG

Account	8200-138
Well/Prospect	
Deck	
AFE	
Approval	
Description	

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. 709

Date	7-27-12	Sec.	16	Twp.	12	Range	16	County	Ellis	State	KS	On Location		Finish	2 WAR
Lease	Glassman	Well No.	2-16		Location		Blue hill School 3/4 W S14 T0								
Contractor	Discovery Right 2				Owner		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				T.D.		908								
Hole Size	1 3/4				Depth		908.39								
Csg.	5 3/4				Charge To		Sam Gary Jr & Assoc.								
Tbg. Size					Depth		Street								
Tool					Depth		City State								
Cement Left in Csg.	42#				Shoe Joint		42.22								
Meas Line					Displace		55 BL								
EQUIPMENT										V4 flow					
Pumptrk #16	No.	Cementer	Matt		Common		350								
Bulktrk	No.	Driver	Travis		Poz. Mix										
Bulktrk #17	No.	Driver	Ney		Gel.		7								
JOB SERVICES & REMARKS										Calcium 13					
Remarks:					Hulls										
Rat Hole					Salt										
Mouse Hole					Flowseal		87#								
Centralizers					Kol-Seal										
Baskets					Mud CLR 48										
D/V or Port Collar					CFL-117 or CD110 CAF 38										
					Sand										
					Handling		370								
					Mileage										
										FLOAT EQUIPMENT					
Glassman Lease										Guide Shoe					
Cement did Circulate										Centralizer #1 #8 #19					
										Baskets #2 #9 #20					
										AFU Inserts					
										Float Shoe					
										Latch Down					
										Baffle plate 8 3/4					
										Rubber plug 8 3/4					
										Pumptrk Charge from Long Surface					
										Mileage 18					
										Tax					
										Discount					
										Total Charge					
Signature <i>[Signature]</i>															



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: 8/4/2012
 Invoice # 816
 P.O.#:
 Due Date: 9/3/2012
 Division: Russell

Invoice

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

DRLG COMP W/O LOE GG

Account	8300-217
Well/Prospect	
Deck	
AFE	
Approval	<i>[Signature]</i>
Description	

Reference:
 GLASSMAN 2-16

Description of Work:
 PROD LONG STRING

Services / Items Included:

Quantity	Price	Taxable	Item	Quantity	Price	Taxable	
Labor	\$ 963.85	No	Salt (Fine)	19	\$279.98	Yes	
Common-Class A	225	\$ 2,897.50	Yes	Latch Down Plug & Baffle, 5 1/2"	1	\$236.44	Yes
Gilsonite	1057	\$ 1,673.58	Yes	Pump Truck Mileage-Job to Nearest Camp	18	\$189.62	No
CFL 117	176	\$ 1,144.39	Yes	Flo Seal	56	\$118.22	Yes
5 1/2" Basket	3	\$ 728.33	Yes	Bulk Truck Mileage-Job to Nearest Bulk Plant	18	\$110.96	No
Bulk Truck Mat-Material Service Charge	254	\$ 536.22	No	KCL	2	\$63.04	Yes
CD-110	117	\$ 494.00	Yes				
5 1/2" Turbolizer	8	\$ 489.78	Yes				
Mud Clear	500	\$ 390.56	Yes				
Defoamer A or CAF-38	50	\$ 369.44	Yes				
Auto Fill Float Shoe, 5 1/2"	1	\$ 323.00	Yes				

Invoice Terms:

Net 30

SubTotal:	\$ 11,008.92
Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:	\$ (1,651.34)
SubTotal for Taxable Items:	\$ 7,827.03
SubTotal for Non-Taxable Items:	\$ 1,530.55
Total:	\$ 9,357.58
Tax:	\$ 493.10
Amount Due:	\$ 9,850.68
Applied Payments:	
Balance Due:	\$ 9,850.68

6.30% Ellis 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

AUG 16 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. 816

Date	Sec.	Twp.	Range	County	State	On Location	Finish
8-1-12	16	12	16	ELLIS	KANSAS		4:30 AM

Lease GLASSMAN Well No. # 2-110 Location L. JALGER - N16 - W1 - N4 - W 3/4 - S. INTO

Contractor DISCOVERY #2 Owner SAM GARY JR # ASSOC.

Type Job PROD STRING 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 7 7/8" T.D. 3590' Charge To SAM GARY JR # ASSOC.

Csg. 5 1/2" Depth 3587' Street 1515 WYNKOP. STE. 800

Tbg. Size _____ Depth _____ City DENVER State CO. 80202

Tool _____ Depth _____ Cement Left in Csg. _____ Shoe Joint 43.28 The above was done to satisfaction and supervision of owner agent or contractor.

Meas Line _____ Displace 86 BLS Cement Amount Ordered 2350 - PROD - 10% SALT - 5% GUMMETS - 4% FLU

EQUIPMENT

Pumptrk # <u>15</u> No. _____ Cementer Helper <u>NECK</u>	Common <u>225</u>
Bulktrk # <u>4</u> No. _____ Driver <u>JASON</u>	Poz. Mix _____
Bulktrk <u>D/W</u> No. _____ Driver <u>GESCO</u>	Gel. <u>CD-10 117 #</u>

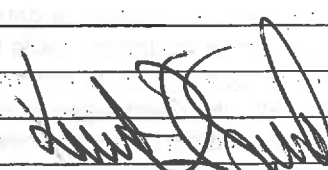
JOB SERVICES & REMARKS

Remarks: _____	Hulls _____
Rat Hole _____	Salt <u>19</u>
Mouse Hole _____	Flowseal <u>56 #</u>
Centralizers <u>1, 3, 5, 7, 9, 11, 13, 15</u>	Kol-Seal <u>10 5/8 #</u>
Baskets <u>3, 9, 15</u>	Mud CLR 48 <u>500 GAL.</u>
D/V or Port Collar _____	<u>CFL-117 or CD110 CAF 38 - 50 #</u>
<u>RAW FLOAT EQUIPMENT - DROPPED BALL</u>	Sand <u>> 176 #</u>
<u>BROKE CIRCULATION - CIRCULATED AND -</u>	Handling _____
<u>BOTTOM THE. - PUMPED MUD FLUSH 500</u>	Mileage _____

FLOAT EQUIPMENT

<u>GALLONS - PLUGGED RAT & MOUSE HOLE</u>	Guide Shoe _____
<u>MIXED 180 DOWN 5 1/2 - DISPLACED</u>	Centralizer <u>8- 5 1/2" TURBOS</u>
<u>LIFT PSL 1000 #</u>	Baskets <u>3- 5 1/2" BASKETS</u>
<u>Level Plug @ 1500 #</u>	AFU Inserts _____
	Float Shoe <u>1- 5 1/2"</u>
	Latch Down <u>1- 5 1/2" w/pung</u>

Pumptrk Charge prod long string
Mileage 18

X Signature 	Tax _____
	Discount _____
	Total Charge _____



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Sam Gary Jr & Assoc. inc
 1515 Wynkoop st.
 Suite 700
 Denver, Co. 80202
 ATTN: Clayton Camozzi

16-12s-16w Ellis

Glassman 2-16

Job Ticket: 47906

DST#: 1

Test Start: 2012.07.30 @ 03:17:05

GENERAL INFORMATION:

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

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:42:50

Time Test Ended: 09:37:09

Test Type: Conventional Bottom Hole (Initial)

Tester: Andy Carreia

Unit No: 39

Interval: 3150.00 ft (KB) To 3214.00 ft (KB) (TVD)

Reference Elevations: 1945.00 ft (KB)

Total Depth: 3214.00 ft (KB) (TVD)

1937.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8372 Outside

Press @ Run Depth: 51.11 psig @ 3154.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.30

End Date: 2012.07.30

Last Calib.: 2012.07.30

Start Time: 03:17:05

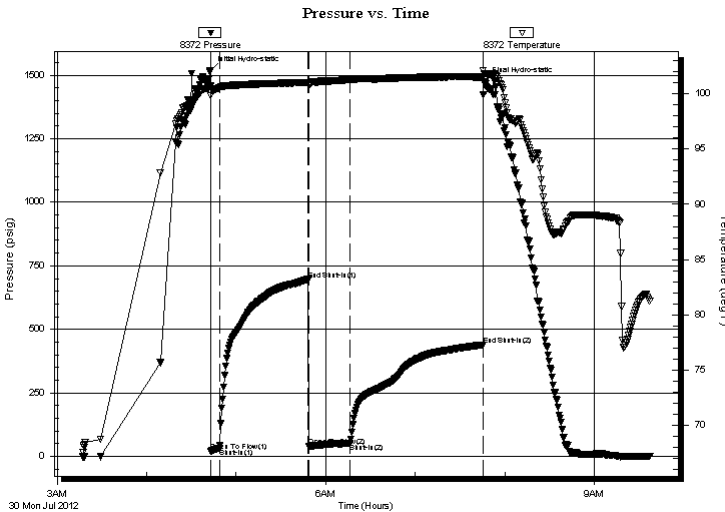
End Time: 09:37:10

Time On Btm: 2012.07.30 @ 04:42:40

Time Off Btm: 2012.07.30 @ 07:46:29

TEST COMMENT: IF:(5min) 1" Blow
 IS:(60min) No Return
 FF:(25min) Half inch blow . Decreased to Surface blow
 FS:(90min) No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1518.76	100.71	Initial Hydro-static
1	18.94	99.83	Open To Flow (1)
6	33.29	100.54	Shut-In(1)
66	695.97	101.02	End Shut-In(1)
66	38.78	100.76	Open To Flow (2)
94	51.11	101.28	Shut-In(2)
183	438.81	101.51	End Shut-In(2)
184	1474.21	101.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	SOSM	0.64

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Sam Gary Jr & Assoc. inc

16-12s-16w Ellis

1515 Wynkoop st.
Suite 700
Denver, Co. 80202
ATTN: Clayton Camozzi

Glassman 2-16

Job Ticket: 47906

DST#: 1

Test Start: 2012.07.30 @ 03:17:05

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 62.00 sec/qt

Water Loss: 8.78 in³

Resistivity: ohm.m

Salinity: 4000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	SOSM	0.638

Total Length: 65.00 ft Total Volume: 0.638 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

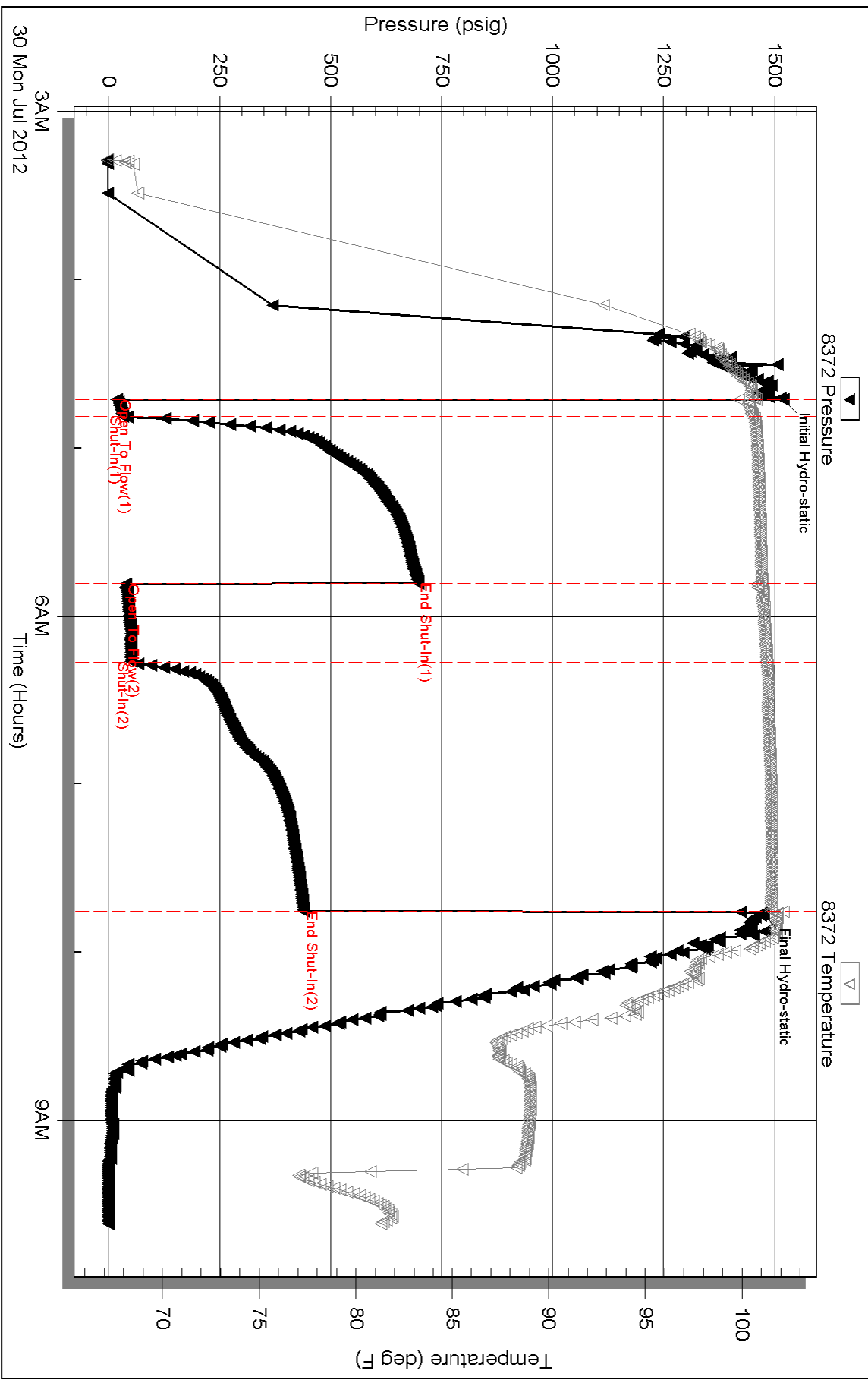
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Data- o=tr m=4000ml press=50lbs

Pressure vs. Time



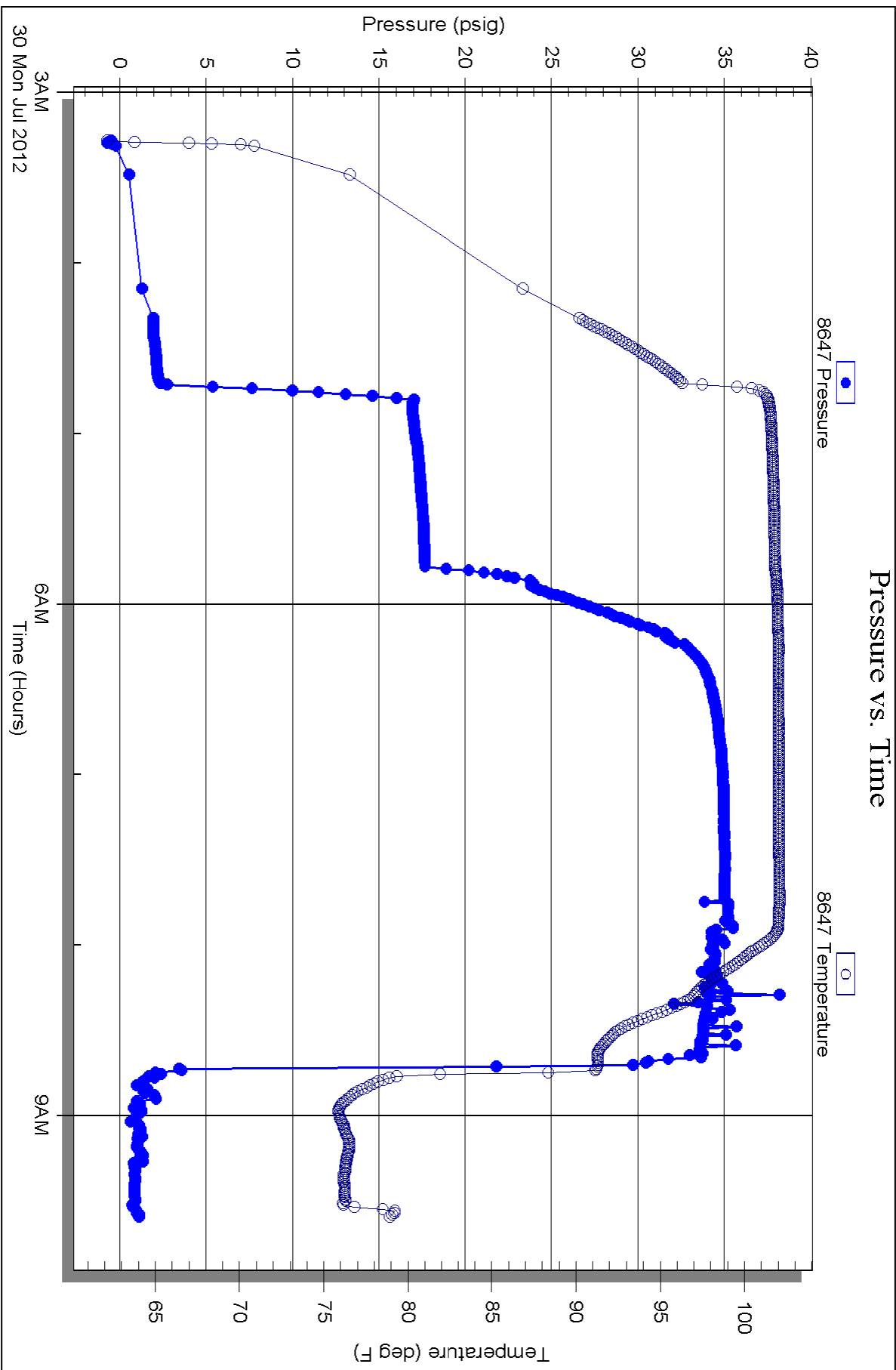
Serial #: 8647

Fluid

Sam Gary Jr & Assoc. inc

Glassman 2-16

DST Test Number: 1





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

Well Name: Chrisler et al 2-21
 Location: Sec. 16 - 12S - 16W Ellis County, Kansas
 License Number: 15-051-26342-0000
 Spud Date: July 26, 2012
 Surface Coordinates: 1320 FSL / 1000 FWL
 Region: WILDCAT
 Drilling Completed: July 31, 2012

Bottom Hole Coordinates:
 Ground Elevation (ft): 1937' K.B. Elevation (ft): 1945'
 Logged Interval (ft): 2800' To: 3590' Total Depth (ft): 3590'
 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: 785-531-2406

DST's Report

DST#1 3150'-3214' 5 60 25 90
 IF- 1" BLOW/ ISI- NR/ FF- 1/2" BLOW, DECREASED TO SURFACE BLOW/ FSI- NR
 IH- 1518, FH-1474/ IF- 18 TO 38/ FF- 33 TO 51/ ISI- 695, FSI- 438
 RECOVERY- 65' SOSTM/ BHT- 101

DST's Report

ROCK TYPES

Anhy	Gyp	Shgy	Sandy lms
Bent	Igne	Siltst	Shale
Brec	Lmst	Ss	Siltstn
Cht	Meta	Till	Shlyslts
Clyst	Mrlst	Carb sh	Sltysl
Coal	Salt	Dol	Lms
Congl	Shale	Dtd	
Dol	Shcol	Gry sh	

ACCESSORIES

MINERAL	Salt	Fossil	Clystn
Anhy	Sandy	Gastro	Dol
Arggrn	Silt	Oolite	Grysh
Arg	Sil	Ostra	Gryslt
Bent	Sulphur	Pelec	Lms
Bit	Tuff	Pellet	Sandy lms
Brecfrag	Chlorite	Pisolite	Sh
Calc	Dol	Plant	Siltstn
Carb	Sand	Strom	
Chtdk	Slt	Fuss	
Chtlt		Oomold	
Dol	FOSSIL	STRINGER	
Feldspar	Algae	Anhy	
Ferrpel	Amph	Arg	
Ferr	Belm	Bent	
Glau	Bioclst	Coal	
Gyp	Brach	Dol	
Hvymin	Bryozoa	Gyp	
Kaol	Cephal	Ls	
Marl	Coral	Mrst	
Minxl	Crin	Siltstrg	
Nodule	Echin	Ssstrg	
Phos	Fish	Carbsh	
Pyr	Foram		
			TEXTURE
			Boundst
			Chalky
			Cryxln
			Earthy
			Finexln
			Grainst
			Lithogr
			Microxln
			Mudst
			Packst
			Wackest

OTHER SYMBOLS

POROSITY TYPE

- E Earthy
- B Fenest
- F Fracture
- X Inter
- A Moldic
- O Organic
- P Pinpoint
- V Vuggy

SORTING

- W Well
- M Moderate
- P Poor

ROUNDING

- R Rounded
- r Subrnd
- a Subang

- A Angular

OIL SHOWS

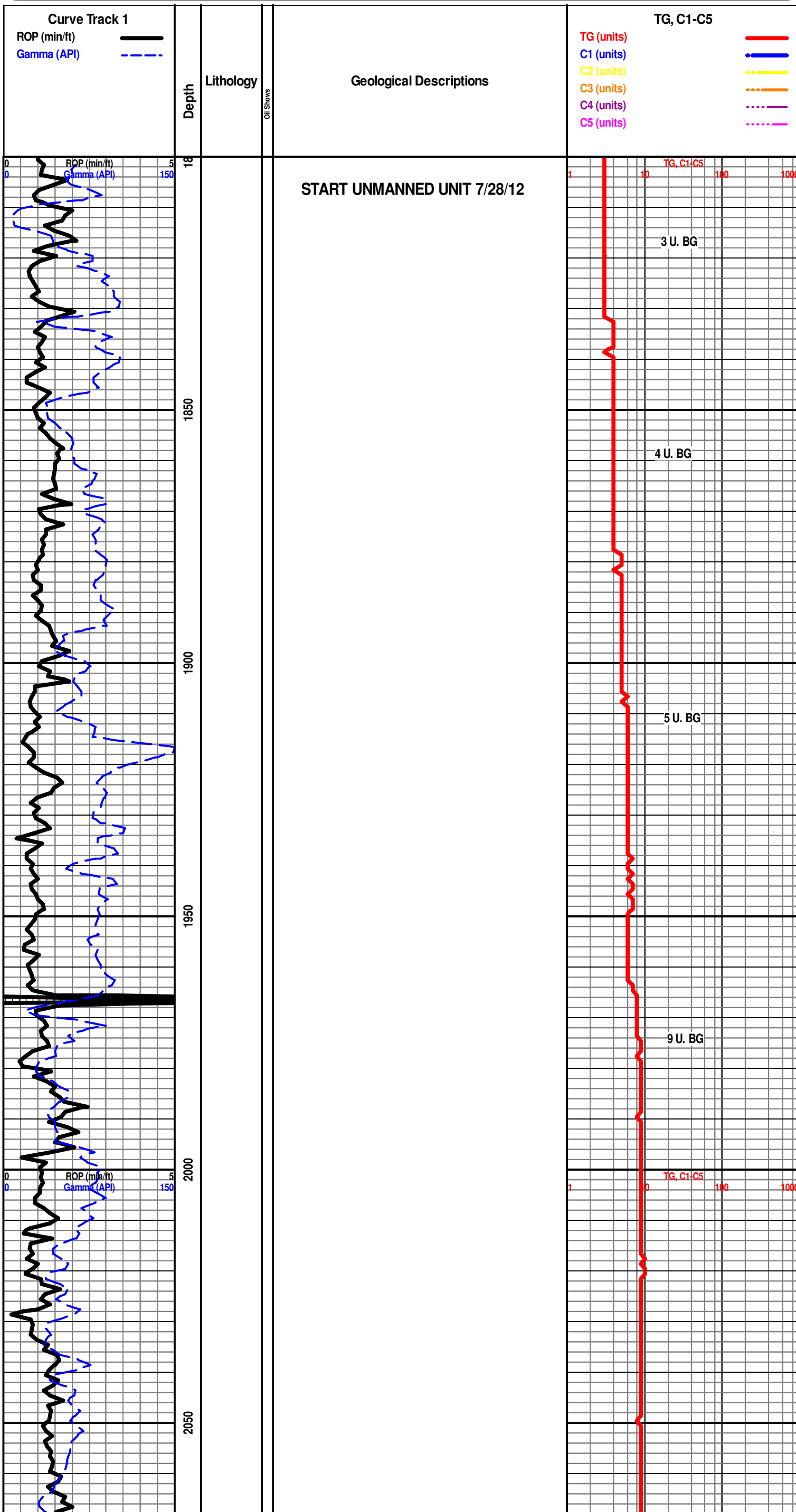
- Even
- ◐ Spotted
- ◑ Ques
- ◒ Dead
- ⊠ Gas show

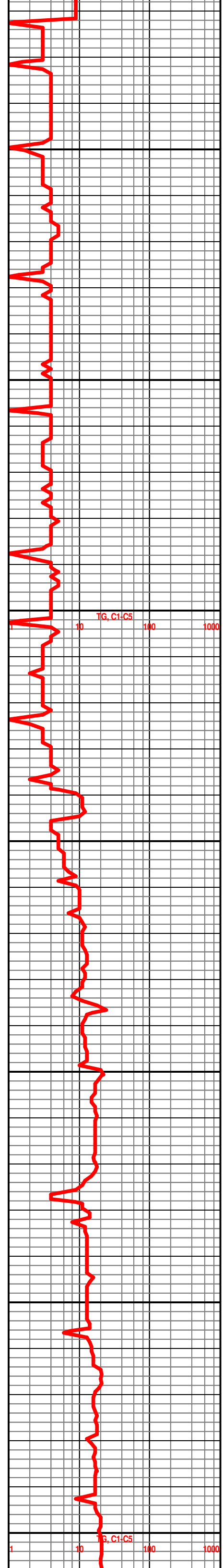
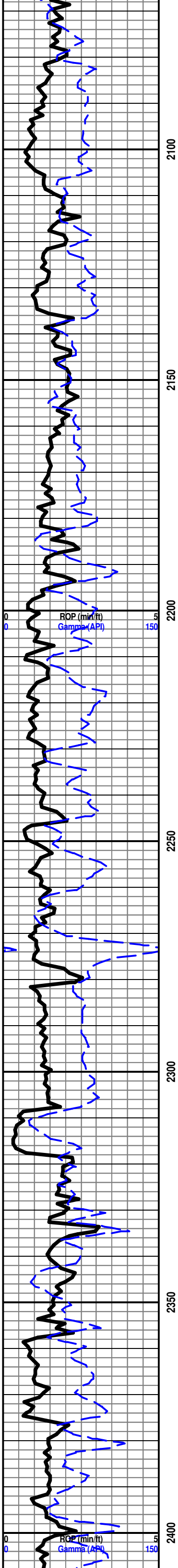
INTERVALS

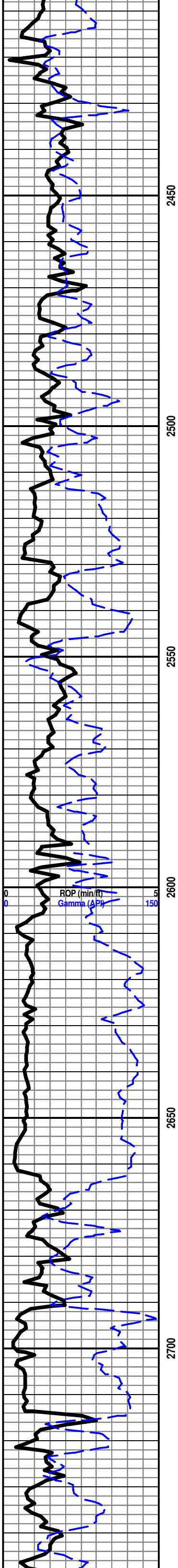
- Core
- Dst
- Dst

EVENTS

- ▤ Rft
- ▥ Sidewall







2450

2500

2550

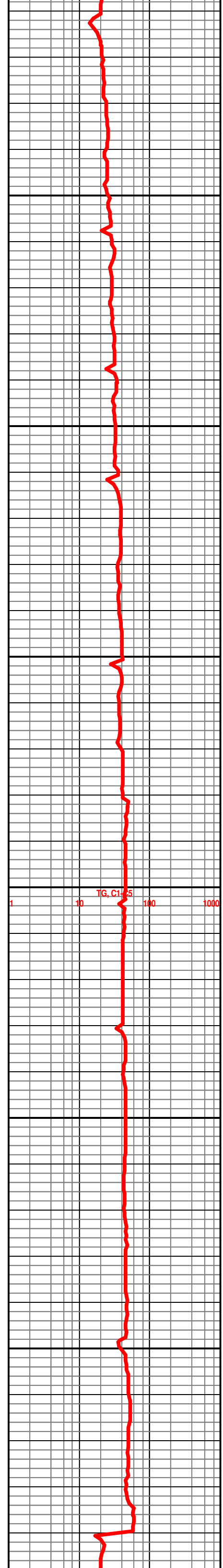
2600

2650

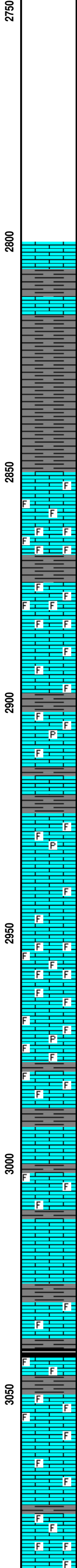
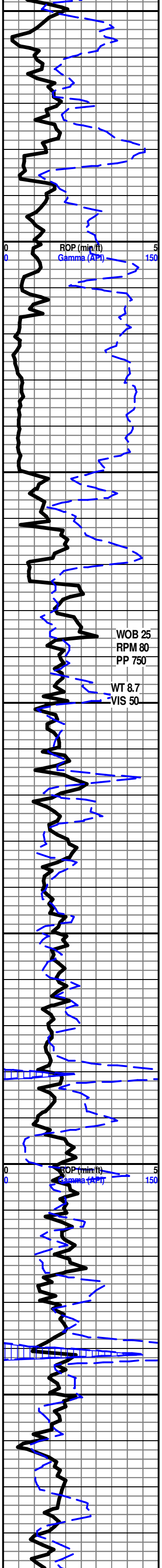
2700

ROP (min/ft)
Gamma (API)

BRS 2662' -717'



TG, Cl-25



START 24 HOUR MANNED UNIT 7/29/12

LS- TN TO DK TN, FRM DNS TO BRIT, F XLN SUCRO MTRX, NO VIS FLO, NO VIS POR, NO VIS SHOW

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

HOWARD 2850' - 905'

LS- TN TO DK TN, HD DNS TO BRIT IP, MD TO CRS XLN RE-XLN MTRX, SCAT IMBD FOSS FRG THRU, NO VIS FLO, NO VIS PO, NO VIS SHOW

LS- TN TO DK TN, HD DNS TO BRIT IP, F TO MD XLN RE-XLN MTRX, ABDT IMBD FOSS FRG THRU, TR FREE FOSS IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

TOPEKA 2874' - 929'

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

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

SGA TOPEKA 2902' - 957'

2904'-2906' LS- TN W/ TN OIL STN IN 5%, HD DNS TO BRIT, F TO MD XLN RE-XLN MTRX, TR SCAT IMBD FOSS FRG THRU, IMBD DISS PYR IP, TR IMBD CALC XLS ON ONE FACE, NO FLO, POSS FRCT POR, PR PP POR IN 5%, GD FLSH CUT IN 20%, GD SLW STRM IN 20%

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

LS- TN TO GY, HD DNS, V/F TO F XLN MTRX, SCAT IMBD FOSS FRG IP, TR IMBD PYR IP NO VIS FLO, NO VIS POR, NO VIS SHOW

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

LS- TN TO GY, HD DNS TO BRIT IP, F XLN MTRX, S-SUCRO IP, IMBD FOSS FRG THRU, NO VIS FLO, NO VIS POR, NO VIS SHOW

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

LS- TN TO GY, HD DNS TO BRIT IP, F TO MD XLN RE-XLN MTRX, S-CHLKY IP, IMBD FOSS FRG THRU, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- OFF WHT TO CRM, HD DNS, V/F TO F XLN MTRX, TR FREE CALC XLS IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

LE COMPTON 3001' - 1056'

LS- LT TN, HD DNS TO BRIT, F TO MD XLN SUCRO MTRX, S-CHLKY IP, SCAT IMBD FOSS FRG IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- CRM TO LT TN, HD DNS TO BRIT IP, F XLN SUCRO MTRX, S-CHLKY IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

SH- GY TO DK GY, FRM BLKY, SMTH TO SLTY TXT

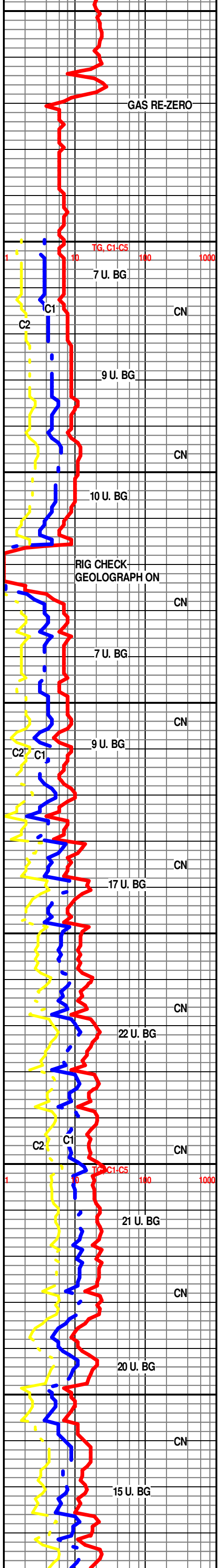
LS- LT TN, HD DNS TO BRIT, F TO MD XLN RE-XLN MTRX, S-SUCRO IP, TR SCAT IMBD FOSS FRG IP, NO VIS FLO, NO VIS SHOW

LS- TN TO DK TN, HD DNS TO BRIT IP, F TO MD XLN RE-XLN MTRX, TR IMBD FOSS FRG IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

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

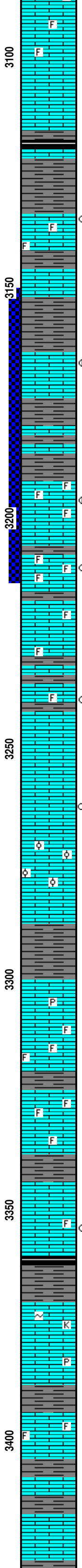
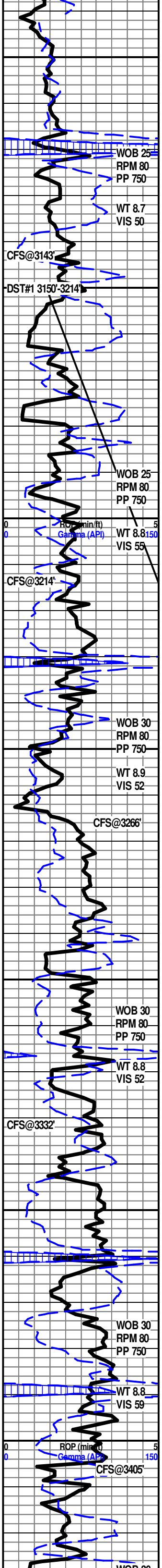
LS- OFF WHT TO LT TN, FRM DNS TO BRIT, F TO MD XLN SUCRO MTRX, S-CHLKY, SLI TR SCAT IMBD FOSS FRG THRU, SCAT SFT WHT CHLKY IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

3080'-3082' LS- TN W/ LT TN OIL SNT IN 10%, HD DNS TO BRIT, F TO MD XLN RE-XLN MTRX, S-CHLKY IP, IMBD FOSS FRG THRU, TR IMBD CALC XLS IP, DUL YEL GLD FLO IN 20%, PR INTR XLN POR IN 5%, PR FLSH CUT IN 20%, FR SLW STRM IN 10%, NO LCH ON DISH



WOB 25
RPM 80
PP 750

WT 8.7
VIS 50



LS- OFF WHT TO CRM, FRM DNS TO BRIT, F XLN CHLKY MTRX, TR FREE FOSS IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- LT TN, FRM DNS TO BRIT, F XLN SUCRO MTRX, S-CHLKY, SCAT SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

HEEBNER 3117' -1172'
SH- BLCK, SFT, CARB

SH- GRN LT GY TO DK GY, FRM BLKY TO SPLNTY, SMTH TXT

TORONTO 3133' -1188'
3134'-3136' LS- LT TN W/ TN OIL STN IN 10%, FRM DNS TO V/BRIT, F XLN CHLKY MTRX, TR IMBD FOSS FRG IP, DUL YEL GLD FLO IN 5%, FR MICRO VUG POR IN 2% NO FLSH CUT, PR SLW STRM IN 10%, NO LCH ON DISH

DOUGLAS 3153' -1208'
SH- GRN BRWN TO GY, FRM BLKY, SMTH TXT

LANSING 3163' -1218'
3164'-3167' LS- LT TN TO TN W/ TN OIL STN IN 30%, HD DNS TO BRIT, F TO MD XLN RE-XLN MTRX, SLI TR IMBD CALC XLS IP, BRT YEL GLD FLO IN 35%, PR TO FR INTR XLN POR IN 10%, PR FLSH CUT IN 30%, GD SLW STRM IN 20%, LT TN LCH ON DISH, WK OIL ODOR

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

SH- LT GY TO GY, SFT GMMY

LANSING "C" 3191' -1246'
3193'-3196' LS- LT TN TO TN W/ TN OIL STN IN 60%, HD DNS TO V/BRIT, MD XLN RE-XLN MTRX, S-SUCRO, SLI TR IMBD FOSS FRG IP, SLI TR IMBD CALC XLS IP, BRT YEL GLD FLO IN 30%, DUL YEL GLD FLO IN 20%, PR TO FR INTR XLN POR IN 5%, FR TO GD VUG POR IN 10%, WK FLSH CUT IN 10%, PR TO FR SLW STRM IN 50%, NO LCH ON DISH

3210'-3212' LS- LT TN W/ LT TN STN IN 5%, HD DNS TO BRIT IP, F XLN RE-XLN MTRX, TR SCAT IMBD FOSS FRG THRU, DUL YEL GLD FLO IN 10%, V/ PR INTR XLN POR IN 5%, NO FLSH CUT, V/ PR TO PR SLW STRM IN 10%, NO LCH ON DISH

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

LANSING "F" 3237'-1292'
3238'-3239' LS- LT TN W/ DK TN OIL STN IN 25%, HD DNS TO V/BRIT IP, F XLN RE-XLN MTRX, S-CHLKY, SLI TR IMBD FOSS FRG IP, TR IMBD CALC XLS IP, SFT WHT CHLK IN TRAY, DUL YEL GLD FLO IN 5%, V/PR INTR XLN POR IN 5%, PR VUG POR IN 1%, NO FLSH CUT, V/ PR TO PR SLW STRM IN 40%, NO LCH ON DISH

LS- LT TN, FRM DNS TO V/BRIT, F XLN CHLKY MTRX, S-SUCRO IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

3262'-3263' LS- TN W/ TN OIL STN IN 20%, FRM DNS TO V/ BRIT, F XLN CHLKY MTRX, SFT WHT CHLK IN TRAY, NO VIS FLO, V/ PR VUG POR IN 1%, NO FLSH CUT, PR SLW STRM IN 5%, NO LCH ON DISH

LS- TN TO DK TN, HD DNS TO BRIT IP, V/F TO F XLN MTRX, IMBD OOL IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- TN TO DK TN, HD DNS TO BRIT IP, V/F TO F XLN MTRX, IMBD CALC XLS IP, LG CALC XLS IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

SH- GRN LT GY TO GY, HD TO FRM SPLNTY, SMTH TXT

LANSING "H" 3299'-1354
LS- LT TN TO TN, HD DNS TO BRIT IP, V/F TO F XLN MTRX, S-CHLKY IP, TR IMBD PYR IP, TR IMBD CALC XLS IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

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

SH- GY TO DK GY, FRM SPLNTY, SMTH TXT

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

SH- GRN TO GY, FRM BLKY, SMTH TXT

LS- TN TO DK TN, HD DNS, V/F TO CRYPTO XLN, NO VIS FLO, NO VIS POR, NO VIS SHOW

3353'-3354' LS- LT TN TO TN W/ LT TN OIL STN IN 5%, HD DNS TO BRIT IP, V/F TO F XLN MTRX, S-CHLKY IP, SLI TR IMBD FOSS FRG IP, NO VIS FLO, PR VUG POR IN 2%, WK FLSH CUT IN 10%, WK SLW STRM IN 10%, NO LCH ON DISH

SH- BLCK, SFT, CARB

LS- LT TN TO TN, HD DNS TO BRIT IP, V/F TO F XLN MTRX, S-CHLKY IP, TR IMBD KAOL OR GLAUC, NO VIS FLO, NO VIS POR, NO VIS SHOW

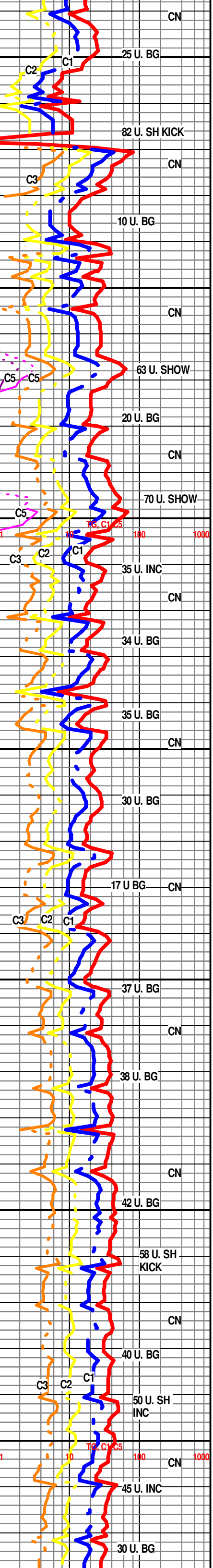
LS- LT TN TO TN, HD DNS TO BRIT IP, V/F TO F XLN MTRX, S-CHLKY IP, TR IMBD CALC XLS IP, SLI TR IMBD DISS PYR, NO VIS FLO, NO VIS POR, NO VIS SHOW

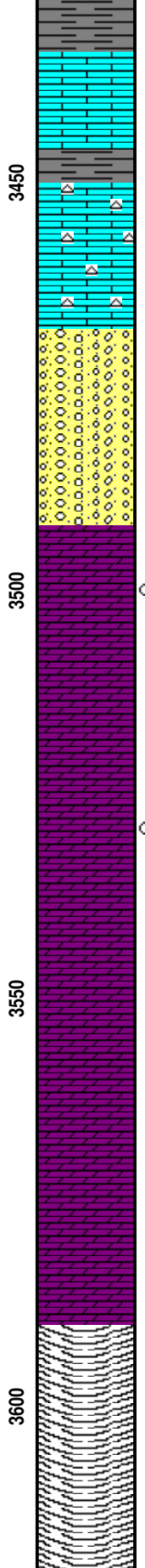
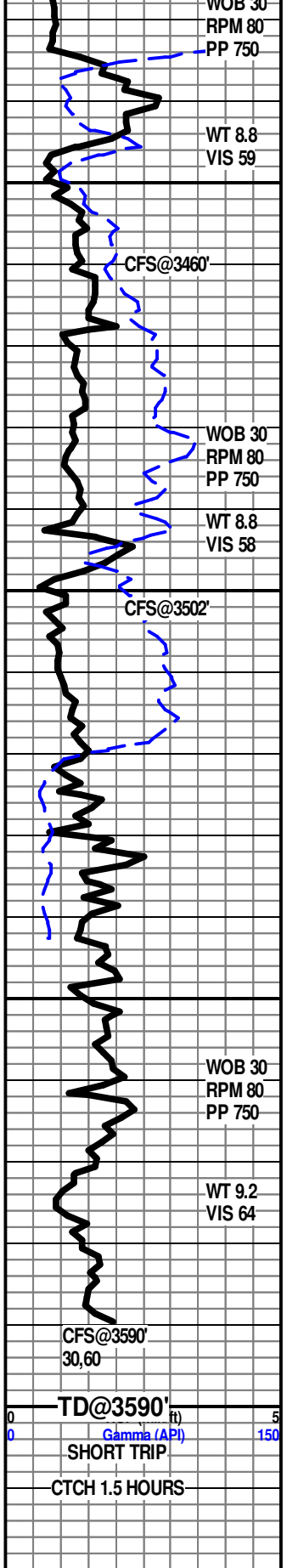
SH- BRWN TO GY, SFT GMMY

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

BKC 3406' -1461'
SH- GRN TO GY, FRM BLKY, SLTY TXT

LS- LT TN, HD DNS TO BRIT, F XLN SUCRO MTRX, S-CHLKY IP, NO VIS FLO, NO VIS POR, NO VIS SHOW





SH- GRN BRWN TO GY, FRM BLKY TO SFT GMMY, SMTH TXT

LS- OFF WHT TO LT TN, HD DNS TO BRIT IP, V/F TO F XLN MTRX, IMBD LG CALC XLS IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- LT TN TO TN, HD DNS TO BRIT, F TO MD XLN RE-XLN MTRX, S-SUCRO, SCAT YEL ORNG TO TN CHRT IN TRAY, SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

CONG- LS- LT TN TO TN, HD DNS TO BRIT, V/F TO F XLN MTRX, S-CHLKY, TR IMBD CALC XLS, SH- GRN GY TO BRWN, FRM BLKY TO SFT GMMY, SMTH TXT, CHRT OFF WHT TN YEL TO ORNG

ARBUCKLE 3493' -1548'

3498'-3500' DOLO- OFF WHT TO CRM W/ TN OIL STN IN 5%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, ABDT IMBD SM ANG TO S-ANG DOLO GRNS THRU, DUL YEL GLD FLO IN 10%, PR INTR GRN POR IN 10%, FR FLSH CUT IN 10%, FR TO GD SLW STRM IN 10%, LT TN LCH ON DISH

DOLO- CRM TO LT TN, HD DNS TO BRIT, F XLN SUCRO MTRX, ABDT IMBD SM S-ANG DOLO GRNS THRU, NO VIS FLO, PR INTR GRN POR IN 5%, NO VIS CUT OR SHOW

3529'-3530' DOLO- OFF WHT TO CRM, HD DNS TO BRIT, F XLN SUCRO MTRX, ABDT IMBD SM S-ANG DOLO GRNS THRU, DUL YEL GLD FLO IN 5%, PR INTR GRN POR IN 1%, PR FLSH CUT IN 5%, FR SLW STRM IN 5%, NO LCH ON DISH

DOLO- WHT TO OFF WHT, HD DNS TO BRIT, F SUCRO MTRX, ABDT IMBD SM TO MD S-ANG DOLO GRNS THRU, NO VIS FLO, FR TO GD INTR GRN POR IN 10%, NO VIS CUT OR SHOW

DOLO- OFF WHT TO CRM, HD DNS TO BRIT, F XLN SUCRO MTRX, ABDT IMBD SM TO MD S-ANG DOLO GRNS THRU, NO VIS FLO, PR TO FR INTR GRN POR IN 5%, NO VIS CUT OR SHOW

R.T.D@9:00AM 7/31/12

DROP SURVEY

TOFL@12:30PM

WEATHERFORD / LIBERAL

