



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1110025
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: _____



1110025

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: _____ _____
--	---	---

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	SCURLOCK 1-28
Doc ID	1110025

All Electric Logs Run

DENSITY-NEUTRON
INDUCTION
MICRO
SONIC
SPECTRAL GR

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

January 25, 2013

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

Re: ACO1
API 15-051-26401-00-00
SCURLOCK 1-28
NW/4 Sec.28-15S-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: 10/12/2012
 Invoice # 5237

P.O.#:

Due Date: 11/11/2012

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:
 SCURLOCK 1-28

Description of Work:
 LONG SURFACE JOB

RECEIVED

OCT 19 2012

SAMUEL GARY JR.
 & ASSOCIATES, INC.

DRLG COMP W/O LOE GG

Account	8200.138
Well/Prospect	
Deck	
AFE	
Approval	
Description	

Services / Items Included:

	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 963.85	No	Baffle Plate Aluminum, 8 5/8"	1	\$95.00	Yes
Common-Class A	350	\$ 4,632.83	Yes				
Bulk Truck Mat-Material Service Charge	370	\$ 781.11	No				
8 5/8" Basket	2	\$ 667.11	Yes				
Calcium Chloride	13	\$ 654.00	Yes				
Pump Truck Mileage-Job to Nearest Camp	24	\$ 252.83	No				
Flo Seal	87	\$ 183.67	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	24	\$ 147.95	No				
8 5/8" Centralizer	2	\$ 135.11	Yes				
Premium Gel (Bentonite)	7	\$ 120.29	Yes				
8 5/8" Top Rubber Plug	1	\$ 111.89	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 8,745.64
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,311.85)

SubTotal for Taxable Items:	\$ 5,609.92
SubTotal for Non-Taxable Items:	\$ 1,823.87
Total:	\$ 7,433.79
Tax:	\$ 353.42

6.30% Ellis County Sales Tax

Thank You For Your Business!

Amount Due: \$ 7,787.22
Applied Payments:
Balance Due: \$ 7,787.22

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
 ©2008-2013 Straker Investments, LLC. All rights reserved.

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

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

No. 5237

Cell 785-324-1041

Date	10-7-12	Sec.	28	Twp.	15	Range	16	County	Ellis	State	KS	On Location		Finish	1:15 PM	
Lease	Scurlock			Well No.	1-28			Location	Victoria 5 to chetolla Gold Rd 1/2 E S 10							
Contractor	Val Rig Co							Owner	OT Walker 95 134W 1/2 S							
Type Job	Surface							To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.								
Hole Size	12 1/4			T.D.	812			Charge To	Sam Gary							
Csg.	8 5/8			Depth	812			Street	Sam Gary Jr + Assoc.							
Tbg. Size				Depth				City								
Tool				Depth				State								
Cement Left in Csg.	42.11			Shoe Joint	42.11-ft			The above was done to satisfaction and supervision of owner agent or contractor.								
Meas Line				Displace	49.88 BBL			Cement Amount Ordered	350 3% CC 2% Gel							
EQUIPMENT																
Pumptrk	9	No.		Cementer Helper	Matt			Common	350							
Bulktrk	10	No.		Driver	Dave			Poz. Mix								
Bulktrk	pe	No.		Driver	Doug			Gel.	7							
JOB SERVICES & REMARKS																
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								
Lease Scurlock																
Cement did Circulate																
FLOAT EQUIPMENT																
Guide Shoe																
Centralizer 2-8 5/8																
Baskets 2 8 5/8																
AFU Inserts																
Float Shoe																
Latch Down																
Baffle plate 8 5/8																
Pumptrk Charge 1 day Surface																
Mileage 24																
Tax																
Discount																
Total Charge																
X 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: 10/16/2012
 Invoice # 6025

P.O.#:

Due Date: 11/15/2012

Division: Russell

Invoice

Kant

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

Reference:
 SCURLOCK 1-28

Description of Work:
 PROD LONG STRING

DRLG COMP W/O LOE GC

Account	8300.238
Well/Prospect	
Deck	
AFE	
Approval	<i>[Signature]</i>
Description	

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 977.42	No	Salt (Fine)	19	\$283.92	Yes
Common-Class A	225	\$ 3,020.20	Yes	Pump Truck Mileage-Job to Nearest Camp	24	\$256.39	No
Gilsonite	1057	\$ 1,697.15	Yes	Latch Down Plug & Baffle, 5 1/2"	1	\$239.77	Yes
CFL 117	176	\$ 1,160.51	Yes	Bulk Truck Mileage-Job to Nearest Bulk Plant	24	\$150.03	No
5 1/2" Basket	3	\$ 738.59	Yes	Flo Seal	56	\$119.89	Yes
Bulk Truck Matl-Material Service Charge	254	\$ 543.77	No	KCL	2	\$63.93	Yes
CD-110	117	\$ 500.96	Yes				
5 1/2" Turbolizer	8	\$ 496.68	Yes				
Mud Clear	500	\$ 396.06	Yes				
Defoamer A or CAF-38	50	\$ 374.65	Yes				
Auto Fill Float Shoe, 5 1/2"	1	\$ 327.55	Yes				

Invoice Terms:

Net 30

SubTotal:	\$ 11,347.46
Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:	\$ (1,702.12)
SubTotal for Taxable Items:	\$ 8,006.87
SubTotal for Non-Taxable Items:	\$ 1,638.47
Total:	\$ 9,645.34
Tax:	\$ 504.43

6.30% Ellis County Sales Tax

Thank You For Your Business!

Amount Due: \$ 10,149.78
Applied Payments:
Balance Due: \$ 10,149.78

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
 ©2008-2013 Straker Investments, LLC. All rights reserved.

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. 6025

Date	Sec.	Twp.	Range	County	State	On Location	Finish
10-12-12	28	15	16	ELLIS	KANSAS		1:45 AM

Location VICTORIA S TO CHETDAH GOW-2 1/2 E 5/INTO

Lease SCURLOCK Well No. #1-28 Owner SAM GARY JR.

Contractor VAL #10 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.

Hole Size 8 5/8 T.D. 3,620' Street 1515 WYNKOOP

Csg. 5 1/2" - 15 1/2 B - NEW Depth 3,415 City DENVER State CO, 80202

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

Tool _____ Depth _____ Cement Amount Ordered 2250 PROD. 10% SALT 5% SODIUM

Cement Left in Csg. _____ Shoe Joint 43.25' Meas Line _____ Displace 85 BBLs

EQUIPMENT Common 225

Pumptrk # 15 No. Cementer Helper NECK Poz Mix CD110 - 117#

Bulktrk # 1 No. Driver LONNIE Gel. _____

Bulktrk PLU No. Driver CISCO Calcium KCL 290#

JOB SERVICES & REMARKS Hulls _____

Remarks: _____ Salt 19

Rat Hole _____ Flowseal 56#

Mouse Hole _____ Kol-Seal 1057#

Centralizers 1, 3, 5, 7, 9, 11, 13, 15 Mud CLR 48 500 GALS.

Baskets 3, 9, 15 CFL-117 or CD110 CAF 38 -50

D/V or Port Collar _____ Sand 176#

DROPPED BALL - ESTABLISHED CIRCULATION - CIRCULATED 1 HR ON BOTTOM Handling 254

DISCONNECTED & MADE CONNECTION TO Mileage _____

5 1/2" PUMPED 500 GAL. MUD CLR 48 - DISCONNECTED & PLUGGED RAT & MOUSE HOLE FLOAT EQUIPMENT

MADE CONNECTION - PUMPED 180 SKS DOWN 5 1/2" - DISCONNECTED - DROPPED Guide Shoe _____

PLUG & WASHED PUMP - MADE CONNECTION Centralizer 8-5 1/2" TURBOS

DISPLACED - PLUG LANDED & HELD Baskets 3-5 1/2"

LIFT PRESSURE @ 1100# AFU Inserts _____

PLUG LANDED @ 857 BBLs @ 1500 LBS. Float Shoe 1-5 1/2"

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

Pumptrk Charge PROD. LONG STRING
Mileage 24
500 GALS - KCL

Tax _____
Discount _____
Total Charge _____

X Signature [Signature]



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. & Ass.
 1515 Wynkoop st. Suite 700
 Denver CO, 80202
 ATTN: Chris Mitchell

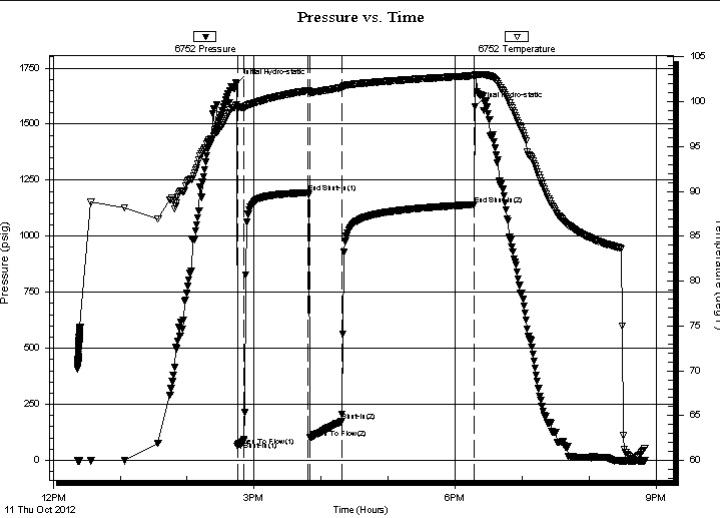
28-15s-16w Ellis KS
Scurlock 1-28
 Job Ticket: 51008 **DST#: 1**
 Test Start: 2012.10.11 @ 12:22:00

GENERAL INFORMATION:

Formation: **Lansing "I-L"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:45:00
 Time Test Ended: 20:50:20
 Interval: **3375.00 ft (KB) To 3449.00 ft (KB) (TVD)**
 Total Depth: 3449.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Cody Bloedorn
 Unit No: 44
 Reference Elevations: 1940.00 ft (KB)
 1930.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 6752 Inside
 Press @ Run Depth: 173.56 psig @ 3446.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.10.11 End Date: 2012.10.11 Last Calib.: 2012.10.11
 Start Time: 12:22:01 End Time: 20:50:20 Time On Btm: 2012.10.11 @ 14:44:40
 Time Off Btm: 2012.10.11 @ 18:17:39

TEST COMMENT: 005 - IFP- B.O.B. in 3 Minutes
 060 - IS- No blow back
 030 - FFP- B.O.B. in 2 Minutes
 120 - FSI- B.O.B. in 1 hour and 8 Minutes.



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1680.38	99.71	Initial Hydro-static
1	63.38	99.35	Open To Flow (1)
6	85.63	99.33	Shut-In(1)
64	1194.08	101.25	End Shut-In(1)
66	100.28	101.06	Open To Flow (2)
94	173.56	101.57	Shut-In(2)
213	1141.34	102.91	End Shut-In(2)
213	1577.87	102.97	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
4.00	SOCMW, 10%O, 20%M, 70%W	0.06
58.00	GWO, 30%G, 30%W, 40%O	0.81
124.00	GWO, 10%W, 40%G, 50%O	1.74
124.00	GSOCM, 10%O, 30%G, 60%M	1.74

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Ass.

28-15s-16w Ellis KS

1515 Wynkoop st. Suite 700
Denver CO, 80202

Scurlock 1-28

Job Ticket: 51008

DST#: 1

ATTN: Chris Mitchell

Test Start: 2012.10.11 @ 12:22:00

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: 5400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
4.00	SOCMW, 10%O, 20%M, 70%W	0.056
58.00	GWO, 30%G, 30%W, 40%O	0.814
124.00	GWO, 10%W, 40%G, 50%O	1.739
124.00	GSOCM, 10%O, 30%G, 60%M	1.739

Total Length: 310.00 ft Total Volume: 4.348 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity: 31 @ 60 Degrees

Sampler, 850 PSI, 1800 ML of Oil, 200 ML of Gas
682' of G.I.P.

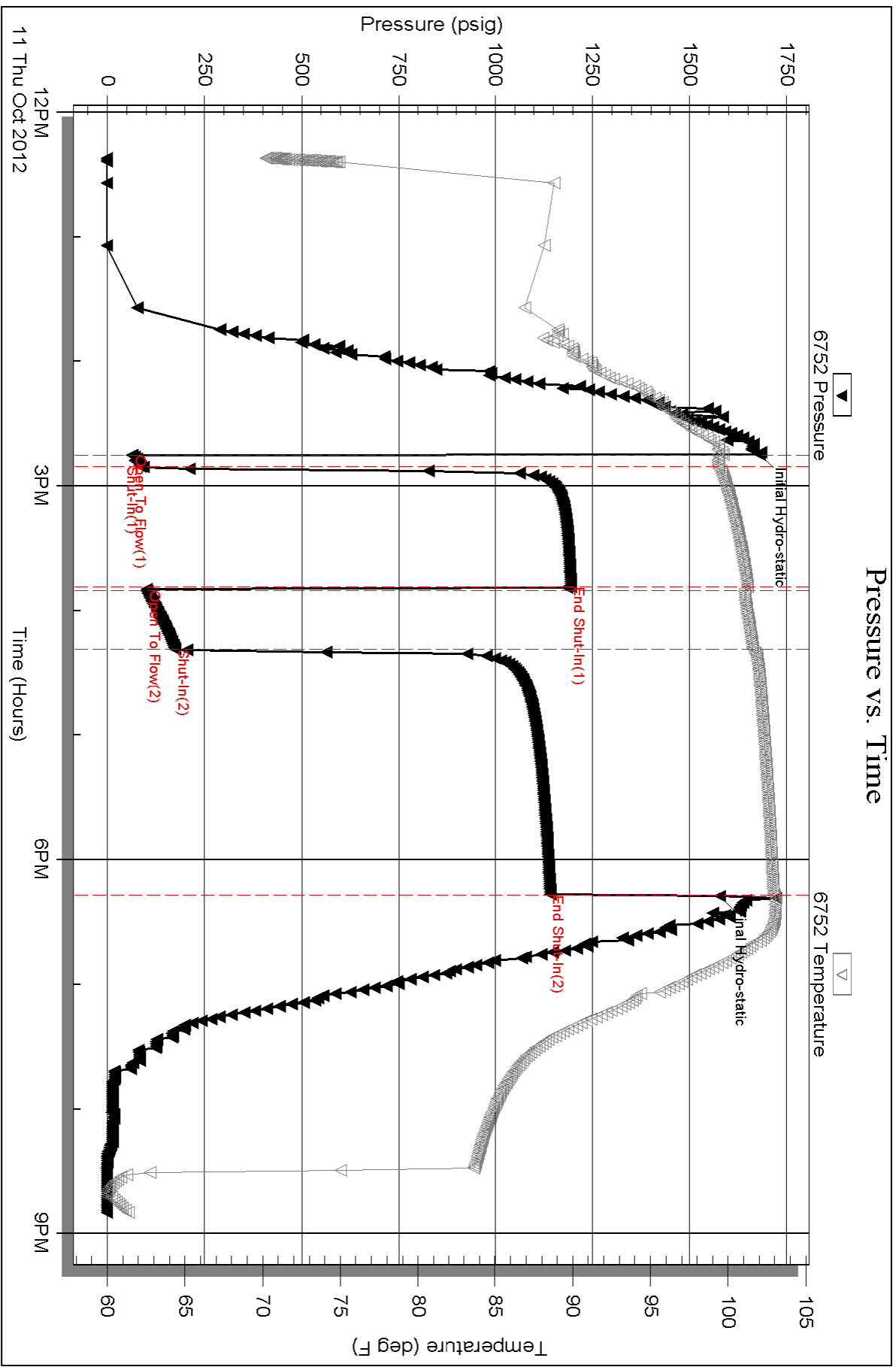
Serial #: 6752

Inside

Samuel Gary Jr. & Ass.

Scurlock 1-28

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 51008

Printed: 2012.10.11 @ 23:24:16



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

Well Name: Scurlock 1-28
 Location: Sec. 28-15S-16W Ellis County, Kansas
 License Number: 15-051-26401-0000
 Spud Date: Oct. 6, 2012
 Surface Coordinates: 95 FNL/ 2000 FWL
 Region: WILDCAT
 Drilling Completed: Oct. 12, 2012

Bottom Hole Coordinates:
 Ground Elevation (ft): 1930' K.B. Elevation (ft): 1940'
 Logged Interval (ft): 2900' To: 3620' Total Depth (ft): 3620'
 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: Chris Metchell

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 3375'-3449' 5 60 30 120
 IF- BOB IN 3 MINUTES/ ISI- NO BLO/ FF- BOB IN 2 MINUTES/ FSI- BOB IN 1 HOUR & 8 MINUTES
 IH- 1680, FH- 1577/ IF-63 TO 100/ FF- 85 TO 173/ ISI- 1194, FSI- 1141
 RECOVERY- 4' SOCMW 10% OIL, 70% WATER, 20% MUD/ 58' GWO 30% GAS, 40% OIL, 30% WATER/ 124' GWO
 40% GAS, 50% OIL, 10% WATER/ 124' GSOCM 30% GAS, 10% OIL, 60% MUD
 SAMPLER- 1800 ML OIL, 200 ML GAS/ 850 PSI/ BHT 102/ GRAVITY 31

DST's Report

ROCK TYPES

Anhy	Gyp	Shgy	Sandy
Bent	Igne	Siltst	Shale
Brec	Lmst	Ss	Siltstn
Cht	Meta	Till	Shlyslts
Clyst	Mrlst	Carb sh	Sltys
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	Silty	Fuss	
Chtlt		Oomold	
Dol	FOSSIL	STRINGER	TEXTURE
Feldspar	Algae	Anhy	Boundst
Ferrpel	Amph	Arg	Chalky
Ferr	Belm	Bent	Cryxln
Glau	Bioclst	Coal	Earthy
Gyp	Brach	Dol	Finexln
Hvymin	Bryozoa	Gyp	Grainst
Kaol	Cephal	Ls	Lithogr
Marl	Coral	Mrst	Microxln
Minxl	Crin	Siltstrg	Mudst
Nodule	Echin	Ssstrg	Packst
Phos	Fish	Carbsh	Wackest
Pyr	Foram		

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

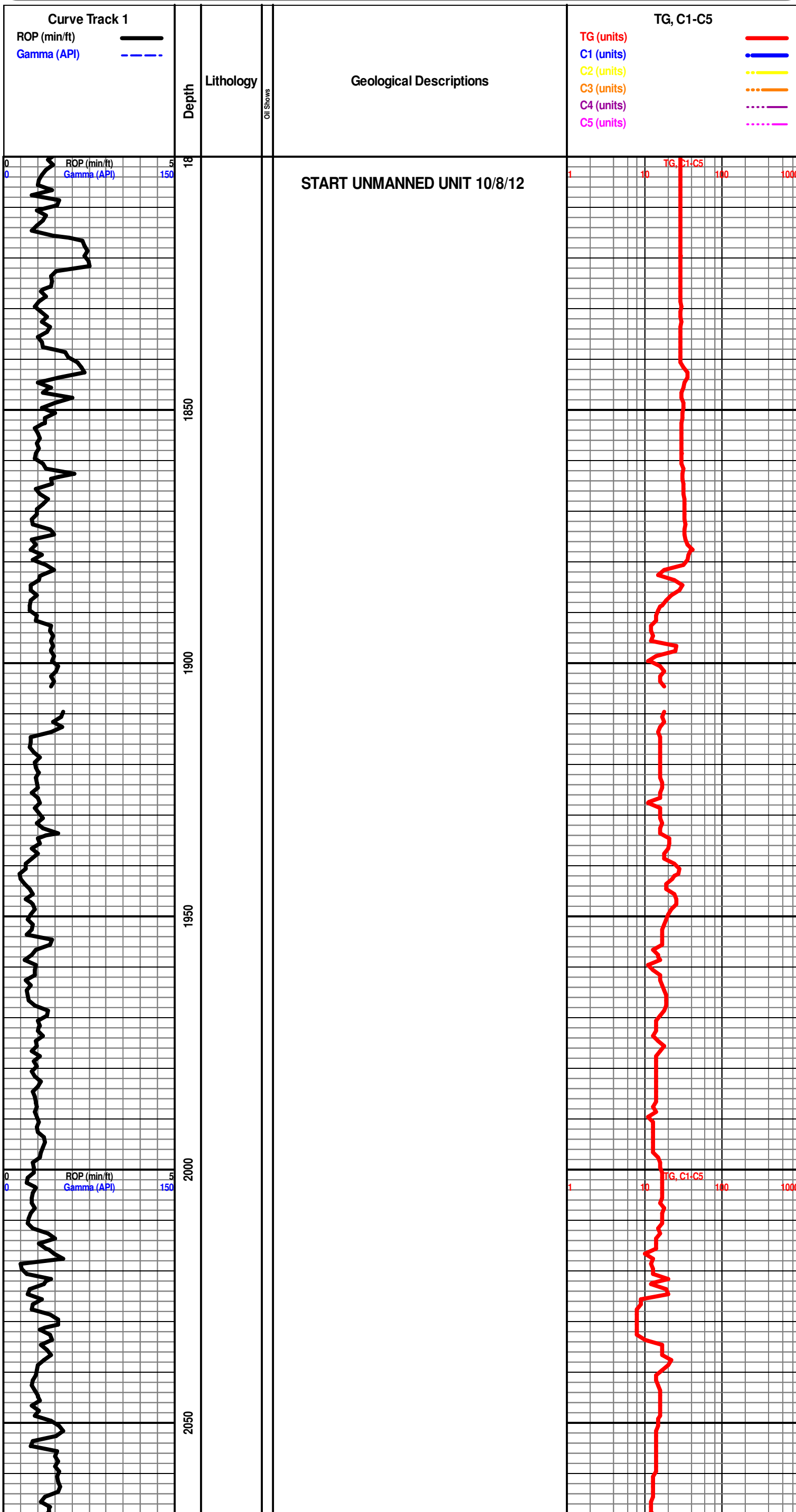
- Even
- Spotted
- Ques
- ▽ Dead
- ⊗ Gas show

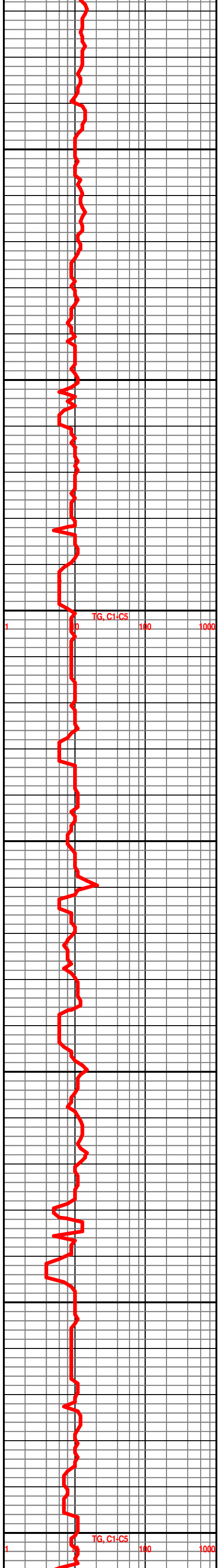
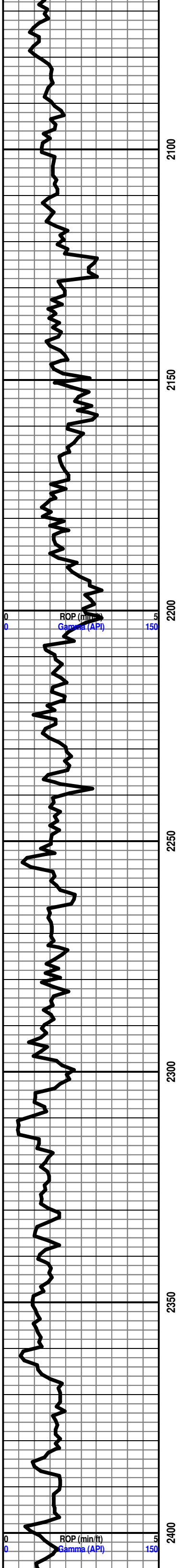
INTERVALS

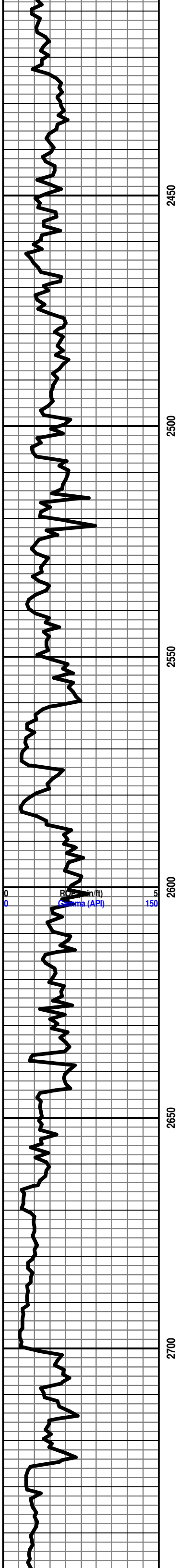
- Core
- Dst
- Dst

EVENTS

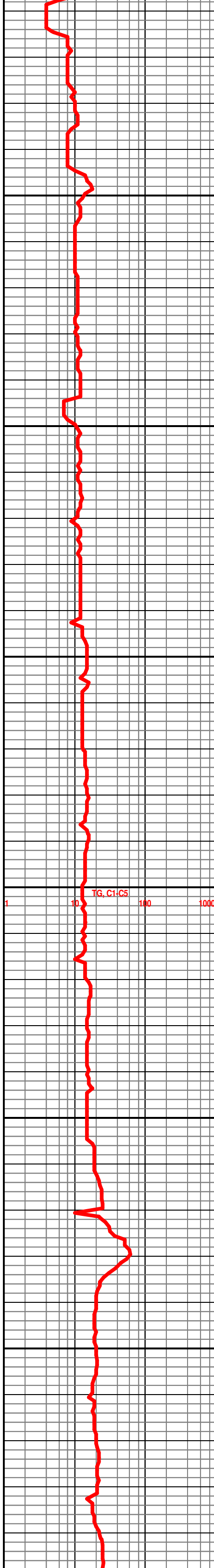
- ▽ Rft
- ▽ Sidewall

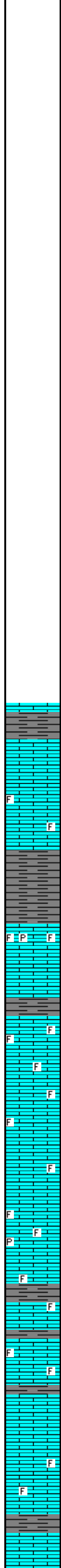
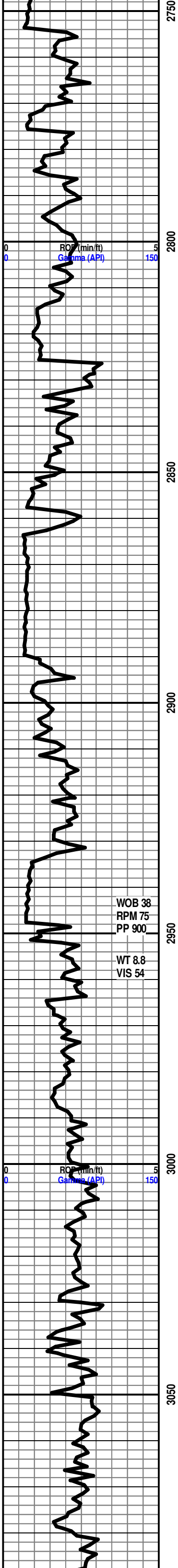






BRS 2701' -761'





HOWARD 2890' -950'

START 24 HOUR MANNED UNIT 10/9/12

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

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

LS- LT TN TO TN, HD DNS TO BRIT IP, F TO MD XLN, S-CHLKY IP, SLI TR IMBD FOSS FRG IP, SLI TR FREE CALC XLS IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

SEVERY 2932' -992'

SH- BRWN LT GY TO GY, FRM BLKY, SMTH TO SLTY TXT

TOPEKA 2948' -1008'

LS- LT TN TO TN, FRM DNS TO BRIT, F XLN CHLKY MTRX, IMBD FOSS FRG IP, TR IMBD DISS PYR, SFT WHT CHLK IN TRAY, 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-SUCRO IP, SCAT 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 MTRX, SCAT IMBD FOSS FRG IP, TR SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

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

SH- LT GY TO GY, FRM BLKY, SMTH TXT

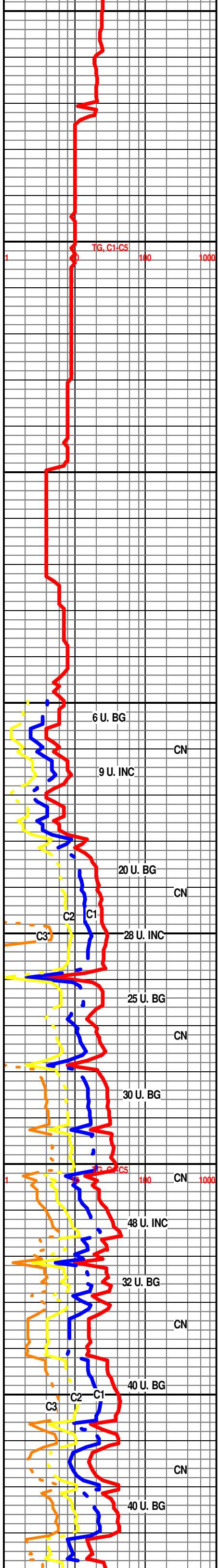
LS- LT TN TO TN, HD DNS TO BRIT IP, F XLN RE XLN MTRX, S-CHLKY IP, SLI TR IMBD FOSS FRG IP, IMBD CALC XLS THRU, NO VIS FLO, NO VIS POR, NO VIS SHOW

LE COMPTON 3050' -1110'

LS- OFF WHT TO CRM, HD DNS TO BRIT, F XLN SUCRO MTRX, SCAT IMBD CALC XLS THRU, NO VIS FLO, NO VIS POR, NO VIS SHOW

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

LS- LT TN TO TN, HD DNS TO BRIT IP, F XLN RE-XLN MTRX, S-CHLKY IP, TR SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW



6 U. BG

9 U. INC

20 U. BG

28 U. INC

25 U. BG

30 U. BG

28 U. INC

48 U. INC

32 U. BG

40 U. BG

40 U. BG

CN

CN

CN

CN

CN

CN

C2

C1

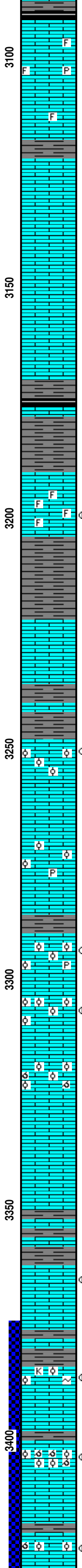
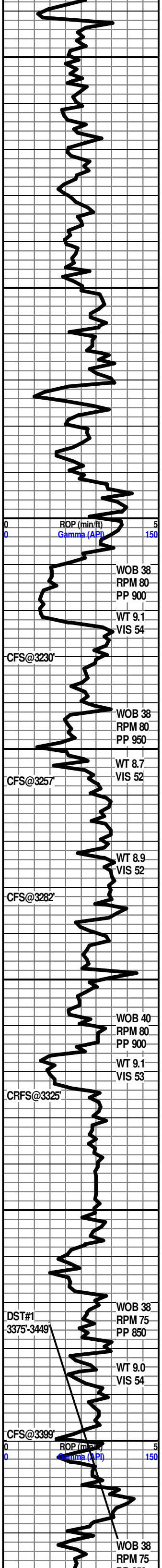
C3

TG, C1-C5

C3

C2

C1



SH- BLCK, SFT, CARB

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

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

LS- LT TN TO GY LMNT, HD DNS TO BRIT IP, F TO MD XLN RE-XLN MTRX, S- CHLKY IP, TR IMBD CALC XLS IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

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

LS- LT TN TO GY, HD DNS TO BRIT IP, F TO MD XLN RE-XLN MTRX, S- SUCRO IP, SCAT IMBD CALC XLS THRU, NO VIS FLO, NO VIS POR, NO VIS SHOW

HEEBNER 3171' -1231'
SH- BLCK, SFT, CARB

SH- GRN BRWN TO GY, FRM SPLNTY, SMTH TXT

3199'- 3200' LS- CRM TO LT TN W/ TN OIL STN IN 30%, HD DNS TO BRIT, F XLN SUCRO MTRX, IMBD FOSS FRG IP, BRT YEL GLD FLO IN 30%, PR INTR FOSS POR IN 3%, PR TO F VUG POR IN 3%, PR TO FR FLSH CUT IN 30%, PR TO FR SLW STRM IN 15%, NO LCH ON DISH

DOUGLAS 3204' -1264'
SH- BRWN TO GY, SFT GMMY

LANSING 3222' -1282'
LS- LT TN TO TN, HD DNS TO BRIT IP, F XLN RE-XLN MTRX, S-CHLKY IP, SCAT IMBD CALC XLS IP, TR FREE CALC XLS IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

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

LANSING "C" 3247' -1307'
3249'-3250' (2 ROCKS) LS- OFF WHT TO CRM W/ T TN OIL STN IN 20%, FRM DNS TO V/BRIT, F XLN SUCRO MTRX, S-CHLKY ABDT IMBD OOL IP, ABDT SFT WHT CHLK IN TRAY, DUL YEL GLD FLO IN 20%, PR TO FR INTR OOL POR IN 5%, WK FLSH CUT IN 20%, FR SLW STRM IN 30%, NO LCH ON DISH

LS- LT TN TO TN, HD DNS TO BRIT IP, F XLN SUCRO MTRX, S-CHLKY, IMBD OOL THRU, TR IMBD CALC XLS IP, TR FREE PYR IN TRAY NO VIS FLO, NO VIS POR, NO VIS SHOW

LANSING "F" 3290' -1350'
3292'-3294' LS- CRM TO LT TN W/ LT TN OILSTN IN 15%, HD DNS TO BRIT IP, F XLN SUCRO MTRX, S-CHLKY, ABDT IMBD OOL THRU, TR IMBD PYR IP, SFT WHT CHLK IN TRAY, BRT YEL GLD FLO IN 5%, DUL YEL GLD FLO IN 15%, PR TO FR INTR OOL POR IN 3%, V/WK FLSH CUT IN 10%, PR SLW STRM IN 15%, NO LCH ON DISH

3306'-3308' LS- CRM TO GY W/ TN OIL STN IN 30% LOS IN 1%, HD DNS TO BRIT IP, F XLN SUCRO MTRX, S-CHLKY, IMBD OOL THRU, TR SFT WHT CHLK IN TRAY, DUL YEL GLD FLO IN 5%, PR INTR OOL POR IN 4%, FR INTR OOL POR IN 1%, WK FLSH CUT IN 30%, PR TO FR SLW STRM IN 35%, V/ LT TN LCH ON DISH

LS- LT TN TO TN, HD DNS TO BRIT, F XLN SUCRO MTRX, S-CHLKY IP, ABDT IMBD OOL THUR, TR OOLMLD IP, ABDT SFT WHT CHLK IN TRAY, NO VIS FLO, PR OOLMLD POR IN 7%, NO VIS CUT OR SHOW

LS- OFF WHT TO LT TN, HD DNS TO BRIT IP, F XLN SUCRO MTRX, S-CHLKY NO VIS FLO, SCAT IMBD CALC XLS THRU, NO VIS POR, NO VIS SHOW

SH- GRN BRWN TO GY, FRM BLKY, SLTY TXT

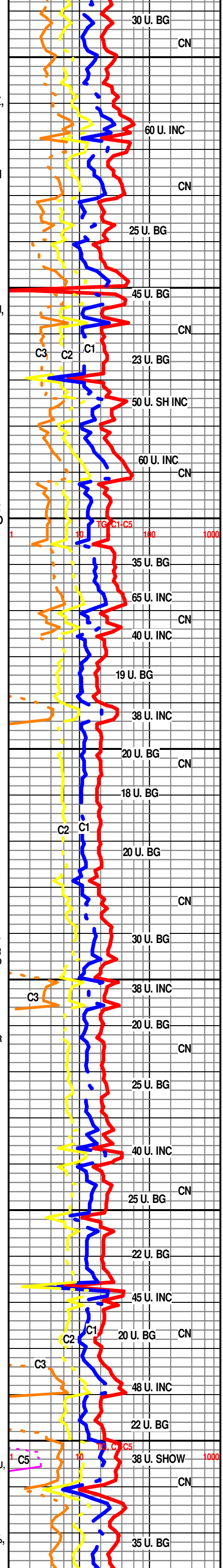
LANSING "H" 3362' -1422'
(2 ROCKS) 3363'-3364' LS- OFF WHT TO LT TN W/ TN OIL STN IN 20%, HD DNS TO BRIT, F XLN CHLKY MTRX, DUL YEL GLD FLO IN 20%, FR TO GD VUG POR IN 5%, FR FLSH CUT IN 20%, FR TO GD SLW STRM IN 20%, LT TN LCH ON DISH

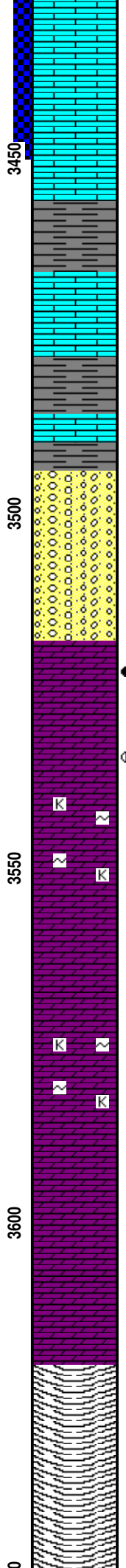
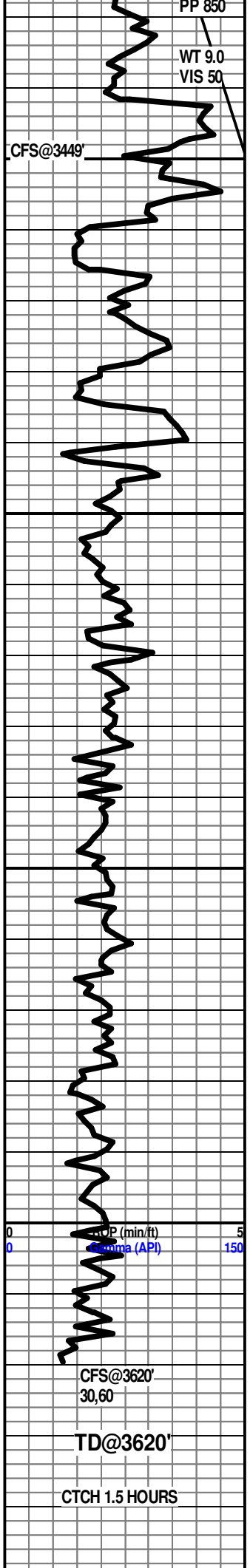
SH- BRWN GY TO DK GY, FRM SPLNTY, SMTH TO SLTY TXT

3385'-3388' LS- CRM TO LT TN W/ TN OIL STN IN 25%, HD DNS TO BRIT, F XLN SUCRO MTRX, S-CHLKY IP, TR IMBD OOL IP, SLI TR IMBD KAOL OR GLAUC, SLI TR SFT WHT CHLK IN TRAY, DUL YEL GLD FLO IN 25%, BRT YEL GLD FLO IN 5%, PR INTR OOL POR IN 3%, PR TO FR VUG POR IN 3%, WK FLSH CUT IN 30%, FR SLW STRM CUT IN 30%, TN LCH ON DISH

3402'-3405' LS- CRM TO LT TN W/ TN OIL STN IN 35%, DOS IN 5%, HD DNS TO BRIT IP, F XLN SUCRO MTRX, ABDT IMBD OOL THRU, OOLMLD THRU, SFT WHT CHLK IN TRAY, DUL YEL GLD FLO IN 50%, GD OOLMLD POR IN 10%, FR TO GD VUG POR IN 5%, WK FLSH CUT IN 10%, PR TO FR SLW STRM IN 30%, V/ LT TN LCH ON DISH

3422'-3423' LS- OFF WHT TO CRM W/ LT TN OIL STN IN 25%, HD DNS TO BRIT, F XLN SUCRO MTRX, SCAT IMBD OOL IP, TR OOLMLD IP, BRT YEL GLD FLO IN 25%, FR TO GD





VUG POR IN 5%, PR OOLMLD POR IN 2%, WK FLSH CUT IN 25%, FR SLW STRM IN 25%, NO LCH ON DISH

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

BKC 3459' -1519'

SH- RED BRWN TO GY, FRM BLKY TO SFT GMMY

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

SH- RED, SFT GMMY

SH- RED, SFT GMMY

CONG- LS- CRM TO LT TN, HD DSN TO BRIT IP, F XLN SUCRO MTRX, SH- RED GRN TO GY, SFT GMMY TO FRM BLKY, CHRT- OFF WHT

ARBUCKLE 3519' -1579'

3521'-3523' DOLO- TN OIL STN IN 100%, HD DNS TO BRIT IP, F XLN SUCRO MTRX, ABDT IMBD F S-ANG TO ANG DOLO GRNS THRU, DUL YEL GLD FLO IN 95%, BRT YEL GLD FLO IN 5%, PR INTR GRN POR IN 10%, FR TO GD FLSH CUT IN 100%, GD SLW STRM IN 90%, DK TN LCH ON DISH, FR OIL ODOR

3534'-3535' DOLO- CRM W/ TN OIL STN IN 40%, HD DNS, F XLN SUCRO MTRX, ABDT IMBD F S-ANG TO S-RND DOLO GRNS THRU, DUL YEL GLD FLO IN 40%, V/PR TO PR INTR GRN POR IN 5%, FR INTR GRN POR IN 5%, WK FLSH CUT IN 25%, FR SLW STRM IN 40%, LT TN LCH ON DISH

DOLO- CRM TO LT TN, HD DNS, F XLN SUCRO MTRX, S-CHLKY, ABDT IMBD F TO MD S-ANG TO S-RND DOLO GRNS THRU, IMBD KAOL OR GLAUC IP, NO VIS FLO, PR INTR GRN POR IN 10%, CUT OR SHOW, NO VIS SHOW

DOLO- OFF WHT TO CRM, HD DNS TO BRIT IP, F XLN SUCRO MTRX, S-CHLKY, ABDT IMBD MD TO CRS S-ANG TO ANG DOLO GRNS THRU, NO VIS FLO, PR INTR GRN POR IN 5%, FR INTR GRN POR IN 1%, NO VIS SHOW

DOLO- OFF WHT TO CRM, HD DNS TO BRIT IP, F XLN SUCRO MTRX, S-CHLKY IP, ABDT IMBD MD TO CRS S-ANG TO ANG DOLO GRNS THRU, TR IMBD KAOL OR GLAUC, NO VIS FLO, PR INTR GRN POR IN 10%, NO VIS SHOW

R.T.D. @ 6:00 AM 10/12/12

DROP SURVEY

TOFL@ 7:30 AM

WEATHERFORD/LIBERAL

