



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1142339
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: _____



1142339

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

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

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

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

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

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

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

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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

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

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	MORGENSTERN 1-12
Doc ID	1142339

All Electric Logs Run

INDUCTION
MICRO
DEN-NEUT
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

May 28, 2013

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

Re: ACO1
API 15-009-25808-00-00
MORGENSTERN 1-12
SW/4 Sec.12-17S-13W
Barton 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: 2/8/2013
 Invoice # 6431

P.O.#:
 Due Date: 3/10/2013
 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

FEB 15 2013

SAMUEL GARY JR.
 & ASSOCIATES, INC.

Reference:
 MORGENSTERN 1-12

Description of Work:
 SURFACE JOB

DRLG COMP W/O LOE GG

Account	8200.138
Well/Prospect	
Deck	
AFE	
Approval	hg
Description	

Services / Items Included:

	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 991.39	No				
Common-Class A	180	\$ 2,450.67	Yes				
Bulk Truck Matl-Material Service Charge	189	\$ 410.40	No				
Calcium Chloride	6	\$ 310.47	Yes				
Pump Truck Mileage-Job to Nearest Camp	21	\$ 227.54	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	21	\$ 133.15	No				
Premium Gel (Bentonite)	3	\$ 53.03	Yes				

Invoice Terms:

Net 30

	SubTotal:	\$	4,576.65
	Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:	\$	(686.50)
		SubTotal for Taxable Items:	\$ 2,392.05
		SubTotal for Non-Taxable Items:	\$ 1,498.11
		Total:	\$ 3,890.15
		Tax:	\$ 174.62
		Amount Due:	\$ 4,064.77
		Applied Payments:	
		Balance Due:	\$ 4,064.77

7.30% Barton 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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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: 2/10/2013
 Invoice # 6515
 P.O.#:
 Due Date: 3/12/2013
 Division: Russell

Invoice

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

DRLG COMP W/O LOE GG

Account	8300.238
Well/Prospect	
Deck	
AFE	
Approval	
Description	

RECEIVED

FEB 25 2013

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

Reference:
 MORGENSTERN 1-12

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	\$ 2,978.25	Yes	Latch Down Plug & Baffle, 5 1/2"	1	\$236.44	Yes
Gilsonite	1057	\$ 1,673.58	Yes	Flo Seal	56	\$118.22	Yes
CFL 117	176	\$ 1,144.39	Yes	Pump Truck Mileage-Job to Nearest Camp	10	\$105.34	No
5 1/2" Basket	3	\$ 728.33	Yes	KCL	2	\$63.04	Yes
Bulk Truck Matl-Material Service Charge	254	\$ 536.22	No	Bulk Truck Mileage-Job to Nearest Bulk Plant	10	\$61.64	No
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: \$ 10,956.08

Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,643.41)

SubTotal for Taxable Items:	\$ 7,895.66
SubTotal for Non-Taxable Items:	\$ 1,417.00

Total: \$ 9,312.67

Tax: \$ 576.38

7.30% Barton County Sales Tax

Thank You For Your Business!

Amount Due: \$ 9,889.05
Applied Payments:
Balance Due: \$ 9,889.05

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. 6515

Date	2-10-13	Sec.	12	Twp.	17	Range	13	County	Barton	State	KS	On Location		Finish	7:45pm
								Location							
								Susank 26 4s 1/2 E Vinto							

Lease	Morgenstern	Well No.	1-12	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.		
Contractor	Discovery #2				Charge To	Sam Gary Jr & Associates	
Type Job	Production String	Hole Size	7 7/8	T.D.	3460	Street	
Csg.	5/2	Depth	3455				
Tbg. Size		Depth					
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Left in Csg.	40.47	Shoe Joint	40.47	Cement Amount Ordered	225 @ Pro C 10% salt 5% Gilsenite		

Meas Line		Displace	81 1/4 BBL	Common	50 gal mud / 20 BBL KCL
EQUIPMENT					
Pumptrk	9	No.	Cement Helper	Poz. Mix	
Bulktrk		No.	Driver	Gel.	
Bulktrk	14	No.	Driver	Calcium	CD 110 117#
			Driver	Hulls	KCL 2 gal

JOB SERVICES & REMARKS					
Remarks:					
Rat Hole	30SK	Salt	19	Flowseal	56#
Mouse Hole	15SK	Kol-Seal	1057#	Mud CLR 48	500 gal
Centralizers	1, 3, 5, 7, 9, 11, 13, 15	CFL-117 or CD110 CAF 38			50#
Baskets	# 3, 9, 15	Sand	176#	Handling	254
D/V or Port Collar		Mileage		FLOAT EQUIPMENT	

5 1/2 set @ 3455 - Insert @ 3414 Bst
 Circulation Pump 50 gal mud / 20 BBL spacer
 Plug Katherine mouse hole - Cement 5 1/2 with
 150SK - Clear lines - Displace Plug - 1st
 20 BBL KCL
 Land Plug @ 2000#, held
 Release psi, dry -

Guide Shoe	3 1/2
Centralizer	8 Turbulizers
Baskets	3
AFU Inserts	
Float Shoe	1
Latch Down	1
	Rotator

Pumptrk Charge	prod long string
Mileage	21
Tax	
Discount	
Total Charge	

X Signature 



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

12/17S13W-Barton

1515 Wynkoop Ste. #700
Denver, CO 80202

Morgenstern #1-12

ATTN: Chris Mitchell

Job Ticket: 50347

DST#: 1

Test Start: 2106.02.06 @ 06:28:15

GENERAL INFORMATION:

Formation: **LKC "H, I, & J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:40:15

Time Test Ended: 14:44:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 66

Interval: 3240.00 ft (KB) To 3305.00 ft (KB) (TVD)

Reference Elevations: 1891.00 ft (KB)

Total Depth: 3305.00 ft (KB) (TVD)

1883.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8354

Inside

Press @ Run Depth: 57.55 psig @ 3244.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.02.09

End Date: 2013.02.09

Last Calib.: 2013.02.09

Start Time: 06:38:15

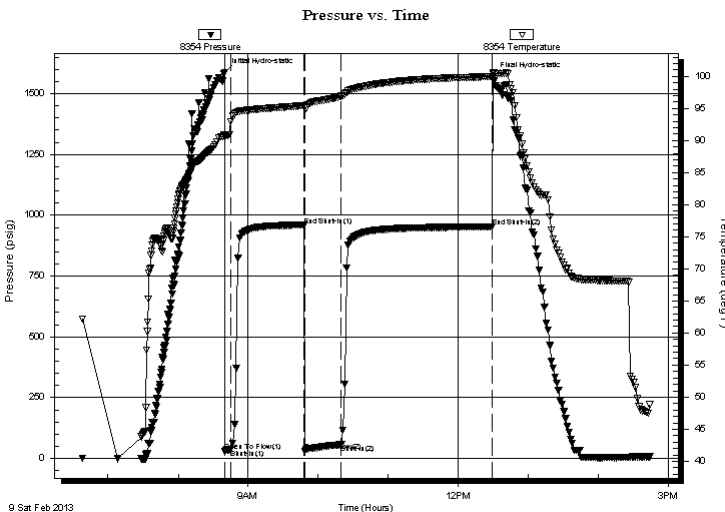
End Time: 14:44:15

Time On Btm: 2013.02.09 @ 08:39:45

Time Off Btm: 2013.02.09 @ 12:29:45

TEST COMMENT: IF-Strong building blow . BOB @ 5 minutes.
ISI-Weak surface return @ 30 seconds. Died @ 17 minutes.
FF-Strong blow . BOB @ 30 seconds.
FSI-Return @ 2 minutes. Built to 1/2 inch. Died @ 35 minutes. Times-5-60-30-120

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1587.39	90.95	Initial Hydro-static
1	30.64	90.78	Open To Flow (1)
6	37.35	92.89	Shut-In(1)
68	956.28	95.43	End Shut-In(1)
69	28.52	95.19	Open To Flow (2)
100	57.55	96.91	Shut-In(2)
229	952.61	99.96	End Shut-In(2)
230	1569.40	100.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
110.00	Gsy HOCM 30%Gas/40%Oil/30%Mud	1.26
0.00	756' G.I.P.	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates, Inc.

12/17S13W-Barton

1515 Wynkoop Ste. #700
Denver, CO 80202

Morgenstern #1-12

Job Ticket: 50347

DST#: 1

ATTN: Chris Mitchell

Test Start: 2106.02.06 @ 06:28:15

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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
110.00	Gsy HOCM 30%Gas/40%Oil/30%Mud	1.261
0.00	756' G.I.P.	0.000

Total Length: 110.00 ft Total Volume: 1.261 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler- Pressure 50# - .25 cubic feet gas- 200ML Gas- 500ML Oil- 300ML Mud- 100ML Total.

Serial #: 8354

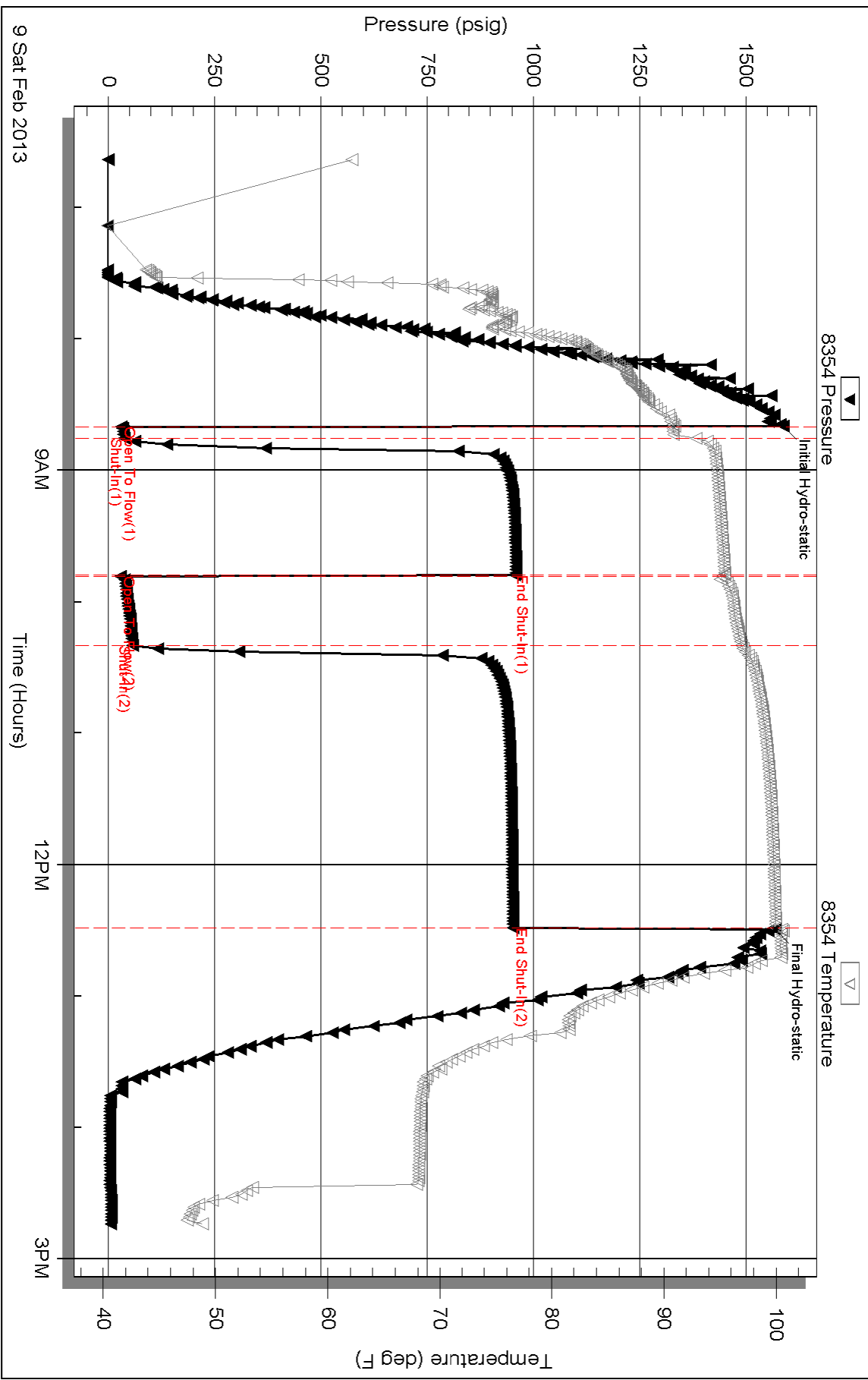
Inside

Samuel Gary Jr. & Associates, Inc.

Morgenstern #1-12

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 50347

Printed: 2013.02.10 @ 09:12:14

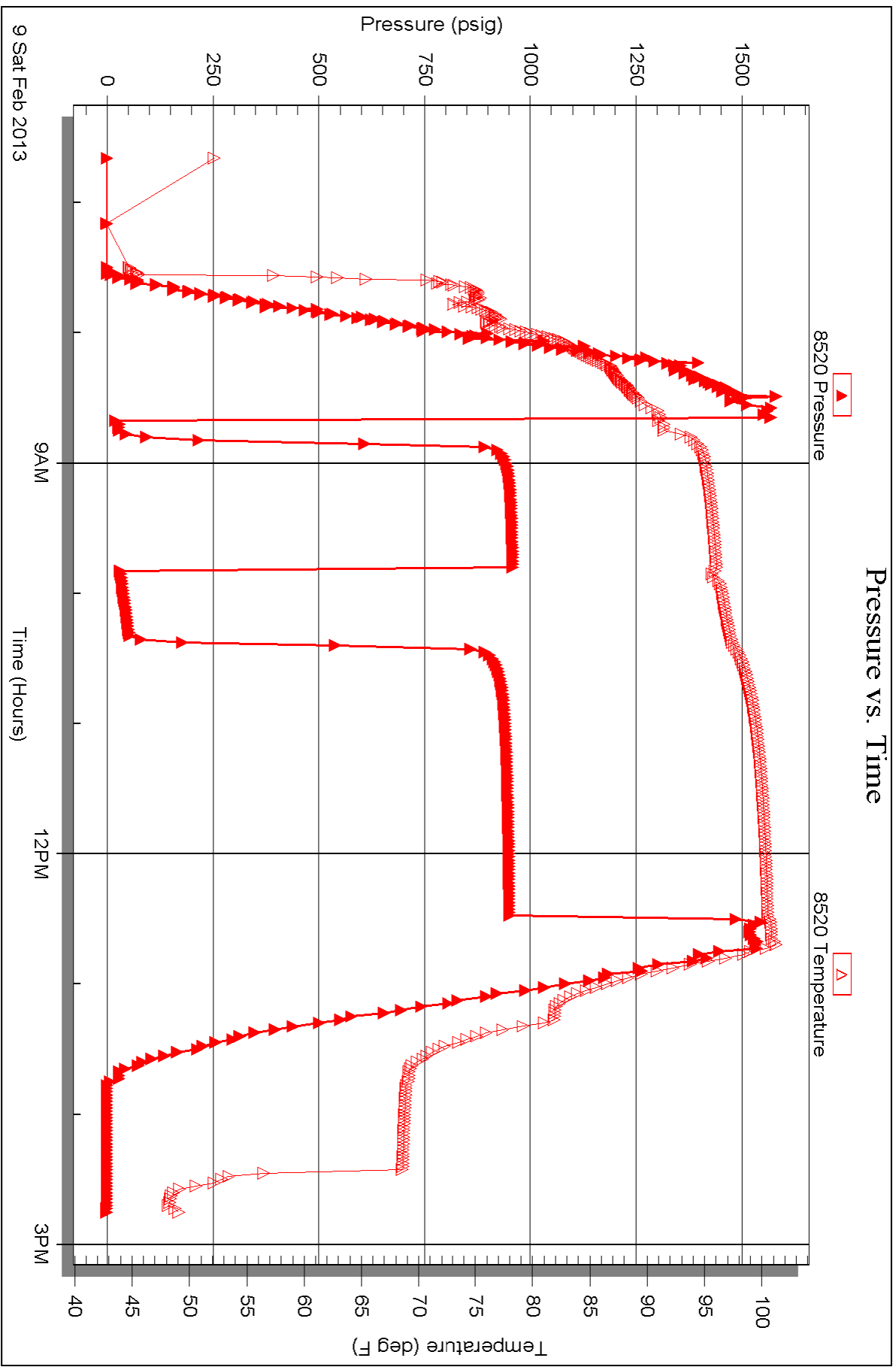
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Outside

Samuel Gary Jr. & Associates, Inc.

Morgenstern #1-12

DST Test Number: 1



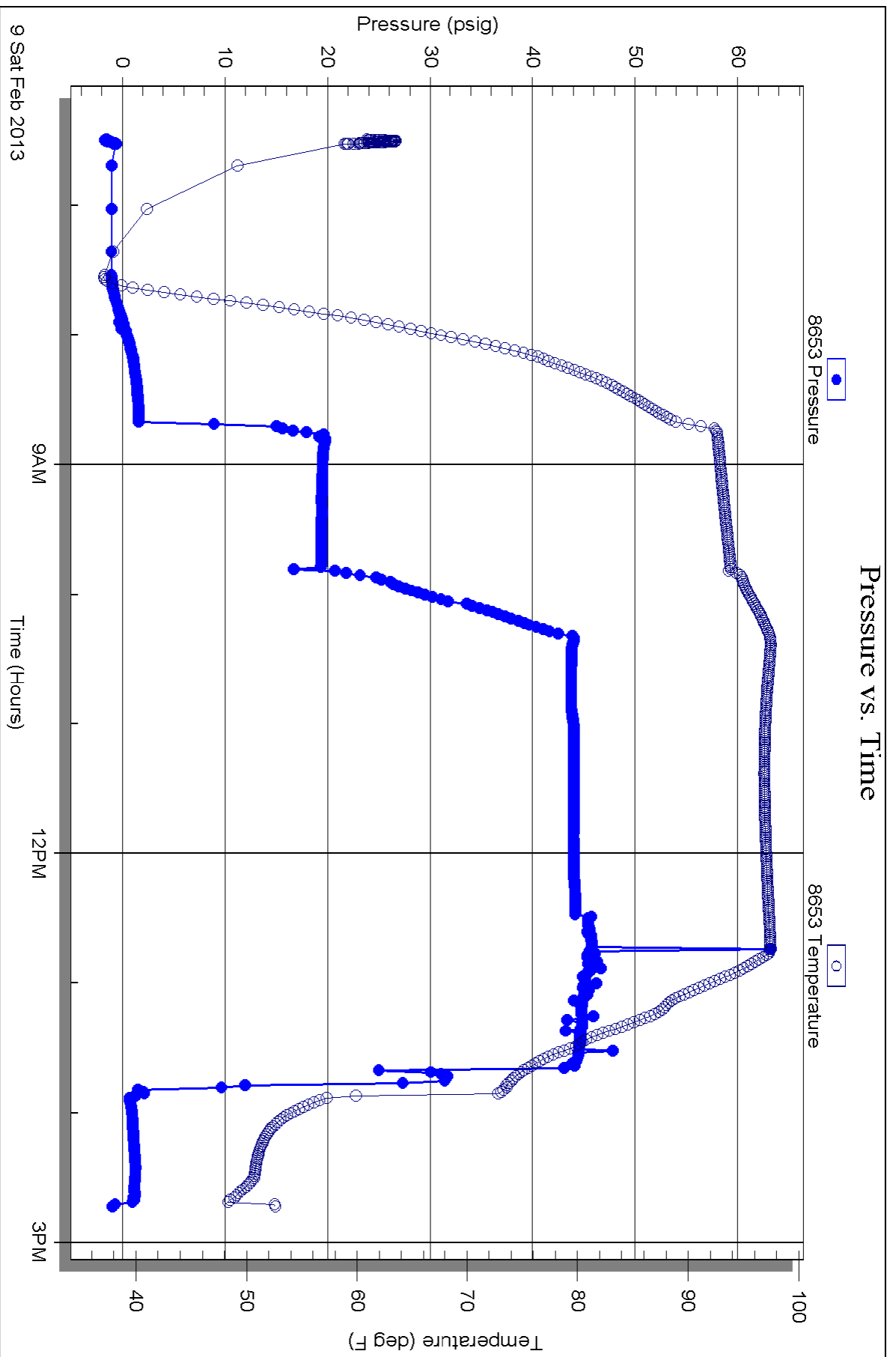
Serial #: 8653

Fluid

Samuel Gary Jr. & Associates, Inc.

Morgenstern #1-12

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 50347

Printed: 2013.02.10 @ 09:12:15



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

Well Name: SGA Morgenstern 1-12
 Location: Sec. 12 - 17S - 13W Barton County, Kansas
 License Number: 15-009-25808-0000
 Spud Date: Feb 5, 2013
 Surface Coordinates: 1160 FSL/ 930 FWL
 Region: WILDCAT
 Drilling Completed: Feb 10, 2013

Bottom Hole Coordinates:
 Ground Elevation (ft): 1883' K.B. Elevation (ft): 1891'
 Logged Interval (ft): 2700' To: 3460' Total Depth (ft): 3460'
 Formation: LANSING/ ARBUCKLE
 Type of Drilling Fluid:

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

OPERATOR

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

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 3240'-3305' 5 60 30 120
 IF- STRONG BUILDING BLOW, BOB @ 5 MINUTES/ ISI- WEAK SURFACE RETURN @ 30 SECONDS, DIED @ 17 MINUTES/ FF- STRONG BLOW, BOB @ 30 SECONDS/ FSI- RETURN @2 MINUTES, BUILT TO 1/2" DIED @35 MINUTES
 IH- 1587, FH- 1569/ IF- 31 TO 29/ FF- 37 TO 58/ ISI- 956, FSI- 953
 RECOVERY- 110' OF HOCGM 30% GAS, 40% OIL, 30 MUD
 SAMPLER- 200ML GAS, 500ML OIL, 300ML MUD, 1000ML TOTAL

ROCK TYPES

Anhy	Gyp	Shgy	Sandylms
Bent	Igne	Sltst	Shale
Brec	Lmst	Ss	Sltstn
Cht	Meta	Till	Shlyslts
Clyst	Mrlst	Carb sh	Sitysh
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	Sandylms
Brecfrag	Chlorite	Pisolite	Sh
Calc	Dol	Plant	Sltstn
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	Sltstrg	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

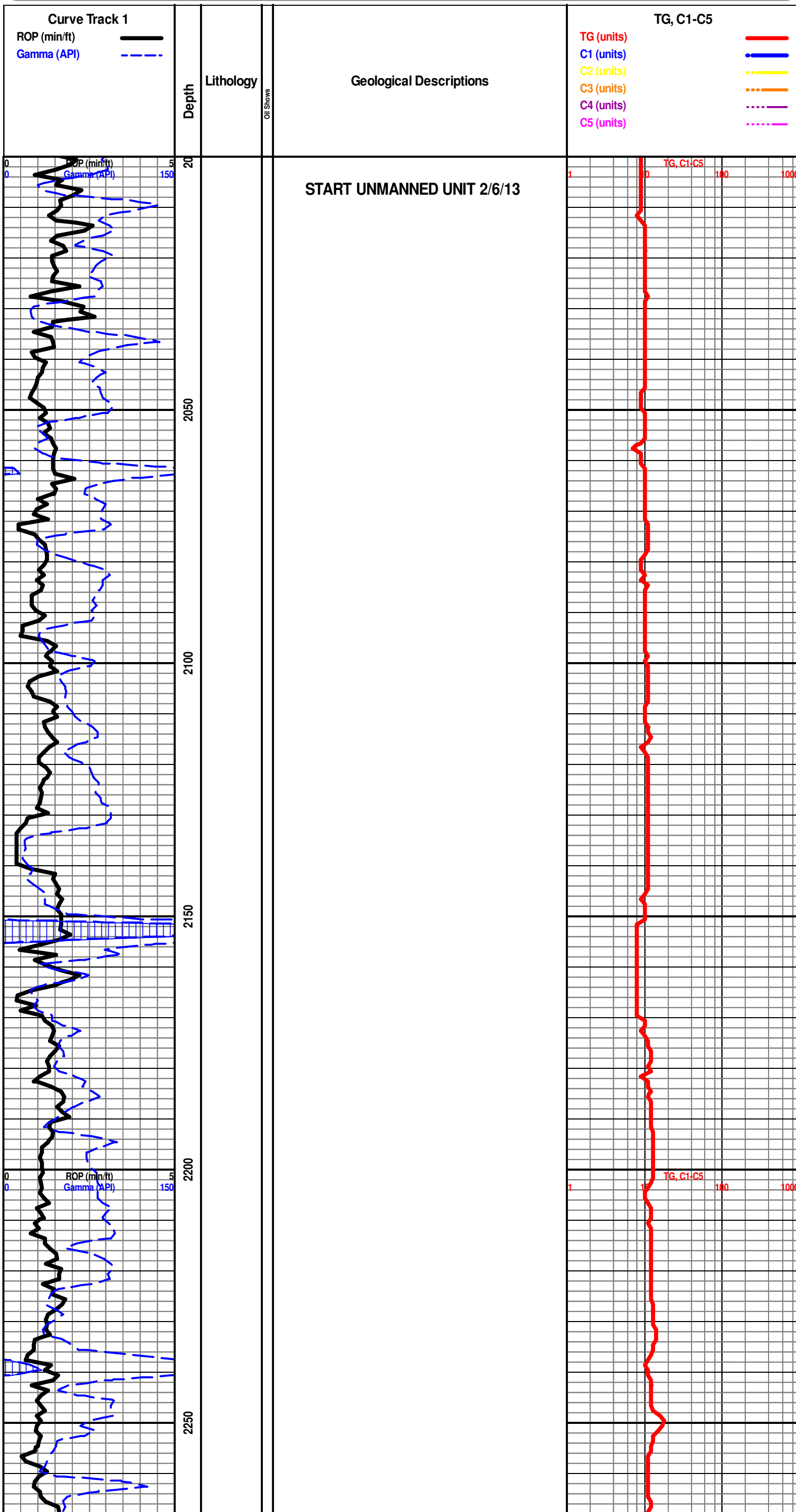
- Even
- ◐ Spotted
- ◑ Ques
- ◒ Dead
- ⊠ Gas show

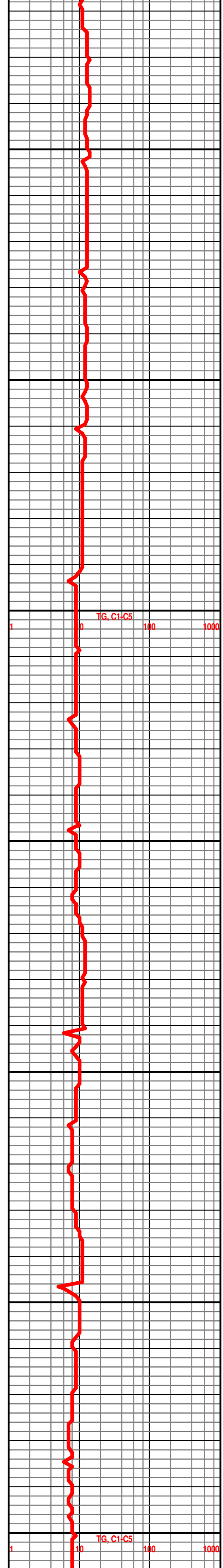
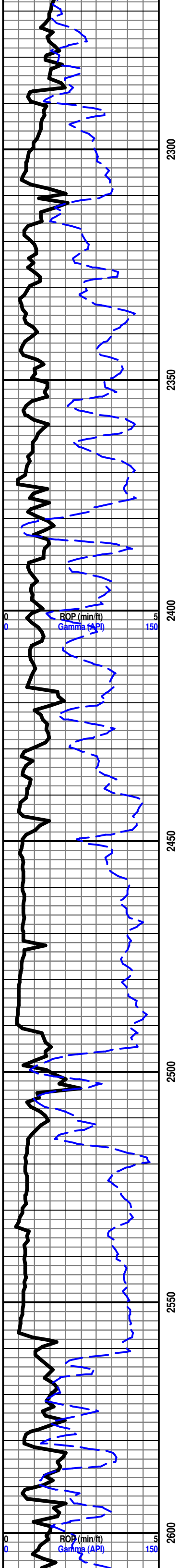
INTERVALS

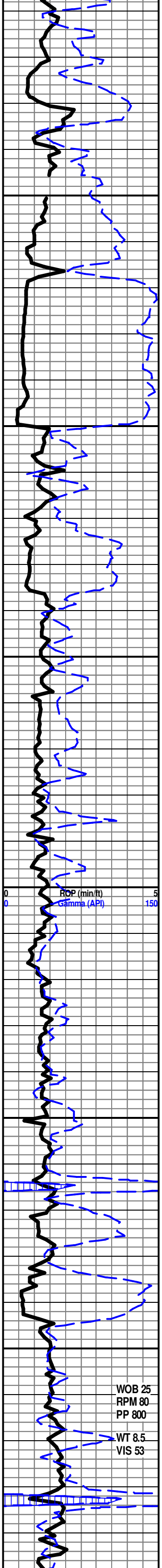
- Core
- ◻ Dst
- ◼ Dst

EVENTS

- ◻ Rft
- ◼ Sidewall







2650

2700

2750

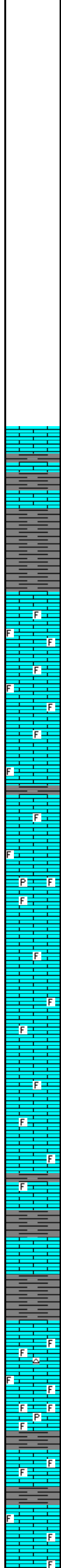
2800

2850

2900

ROP (min/ft)
Gamma (API)

WOB 25
RPM 80
PP 800
WT 8.5
VIS 53



START 24 HOUR MANNED UNIT 2/7/13

HOWARD 2700' -809'

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

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

LANSING 2736' -845'

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

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

LS- OFF WHT TN TO GY IP, HD DNS TO BRIT, V/F TO F XLN SUCRO MTRX, S-CHLKY, SCAT IMBD FOSS FRG THRU, SLI TR IMBD CALC XLS IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

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

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

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

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

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

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

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

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

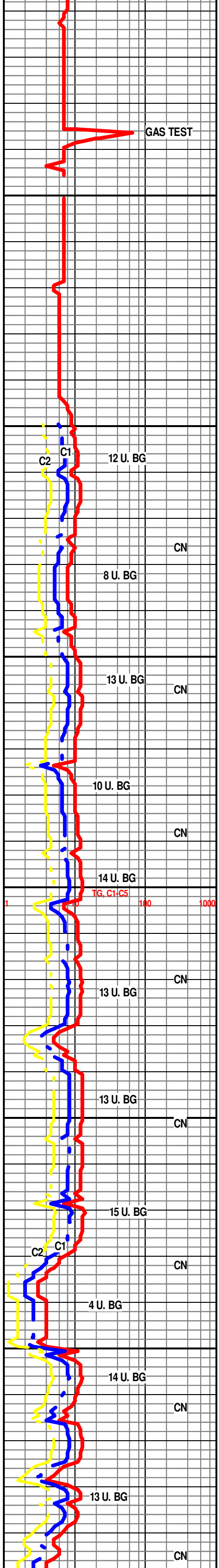
LE COMPTON 2893' -1002'

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

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

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

LS- LT TN TO DK TN, HD DNS TO BRIT, F XLN SUCRO MTRX, IMBD FOSS FRG IP, NO VIS FLO, FR VUG POR IN 2%, NO VIS SHOW



GAS TEST

C2 C1

12 U. BG

CN

8 U. BG

CN

13 U. BG

10 U. BG

CN

14 U. BG

TG, C1-C5 100 1000

CN

13 U. BG

CN

13 U. BG

15 U. BG

CN

4 U. BG

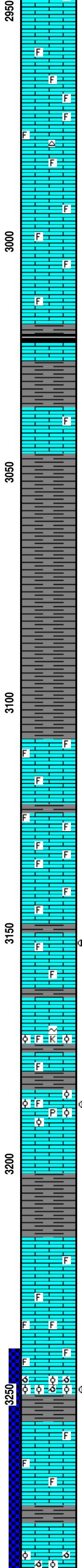
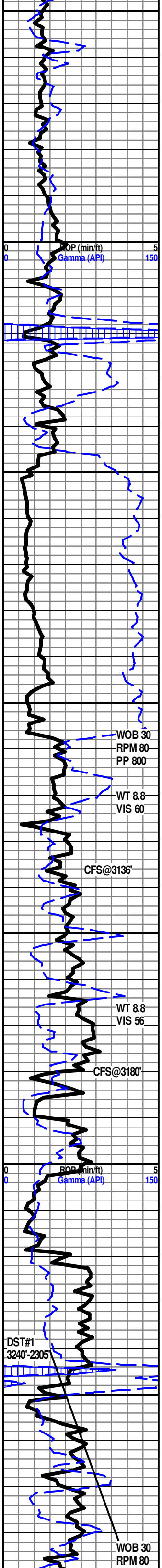
C2 C1

14 U. BG

CN

13 U. BG

CN



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

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

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

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

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

HEEBNER 3018' -1127'
SH- BLCK, SFT, CARB

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

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

DOUGLAS 3046' -1155'
SH- GRN BRWN TO GY, FRM BLKY, SMTH TO SLTY TXT

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

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

BROWN LIME 3107' -1216'
LS- OFF WHT TO TN, HD DNS TO BRIT IP, V/F TO F XLN RE-XLN MTRX, S-SUCRO IP, SCAT IMBD FOSS FRG IP, SLI TR IMBD CALC XLS IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LANSING 3125' -1234'
LS- LT TN TO TN, HD DNS TO BRIT IP, V/F TO F XLN RE-XLN MTRX, S-SUCRO IP, ABDT IMBD FOSS FRG THRU, SLI TR IMBD CALC XLS IP, SLI TR SFT WHT CHLK IN TRAY, NO VIS FLO, PR INTR XLN POR IN 3%, NO VIS SHOW

LANSING "X" 3149' -1258'
3151'-3152' LS- CRM TO LT TN W/ LT TN OIL STN IN 30%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, SCAT IMBD FOSS FRG IP, DUL YEL GLD FLO IN 30%, PR MICRO VUG POR IN 3%, FR FLSH CUT IN 35%, FR SLW STRM IN 35%, NO LCH ON DISH, STRNG SULFUR ODOR

LS- CRM TO LT TN, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, S-CHLKY IP, IMBD OOL IP, TR IMBD FOSS FRG IP, SLI TR IMBD KAOL OR GLAUC IP, NO VIS FLO, NO VIS POR, NO VIS SHOW, WK SLFR ODOR

3183'-3190' LS- CRM TO LT TN W/ TN OIL STN IN 50%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, S-CHLKY IP, ABDT IMBD OOL THRU, SLI TR IMBD FOSS FRG IP, SLI TR IMBD PYR IP, DUL YEL GLD FLO IN 50%, PR TO FR INTR XLN POR IN 4%, PR TO FR VUG POR IN 2%, PR FLSH CUT IN 40%, PR TO FR SLW STRM IN 45%, NO LCH ON DISH, WK SLFR ODOR

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

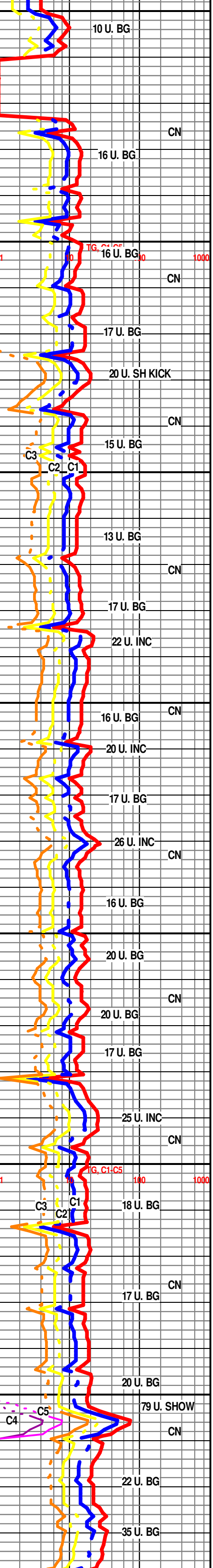
LS- CRM TO LT TN, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, S-CHLKY IP, TR SCAT IMBD FOSS FRG IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

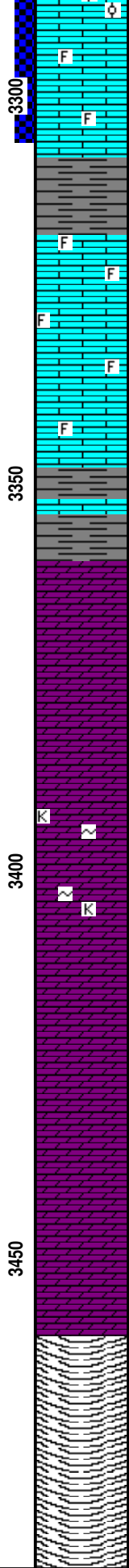
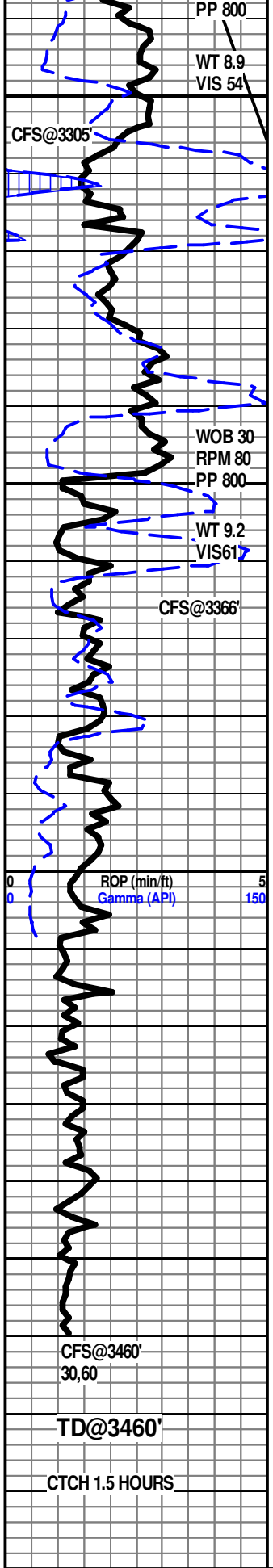
LS- LT TN TO TN, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, S-CHLKY IP, IMBD FOSS FRG THRU, SLI TR SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

LANSING "Z" 3246' -1355'
3248'-3250' LS- CRM TO LT TN W/ LT TN OIL STN IN 25%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, ABDT IMBD OOL THRU, OOLMLD THRU, BRT YEL GLD FLO IN 70%, FR TO GD OOLMLD POR IN 5%, PR TO FR VUG POR IN 3%, PR TO FR INTR OOL IN 3%, WK FLSH CUT IN 70%, PR TO FR SLW STRM IN 70%, NO LCH ON DISH, FR OIL ODOR

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

LS- LT TN TO TN, HD DNS, F XLN SUCRO MTRX, ABDT IMBD OOL THRU, OOLMLD THRU, NO VIS FLO, PR TO FR OOLMLD POR IN 5%, PR INTR OOL POR IN 2%, NO VIS





COULMED FOR IN 5%, FR INTR UOL FOR IN 2%, NO VIS SHOW

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

STARK SHALE 3308' -1417'

SH- LT GY TO GY, SFT GMMY

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

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

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

ARBUCKLE 3360' -1469'

3366'-3367' DOLO- OFF WHT TO CRM W/ LT TN OIL STN IN 5%, HD DNS TO BRIT, F XLN SUCRO MTRX, ABDT IMBD SM TO MD S-ANG TO S-RND DOLO GRNS THRU, NO VIS FLO, FR TO GD INTR XLN POR IN 10%, NO FLSH CUT, PR SLW STRM IN 5%, NO LCH ON DISH

3376'-3377' DOLO- OFF WHT TO CRM W/ TN OIL STN IN 5%, HD DNS TO BRIT IP, F XLN SUCRO MTRX, ABDT IMBD SM TO MD S-ANG TO S-RND DOLO GRNS THRU, NO VIS FLO, PR TO FR INTR GRN POR IN 10%, NO FLSH CUT, V/PR TO PR SLW STRM IN 5%, NO LCH ON DISH

3382'-3385' DOLO- CRM TO LT TN W/ TN OIL STN IN 5%, HD DNS TO BRIT, F XLN TO SUCRO MTRX, ABDT IMBD SM TO MD S-ANG TO ANG DOLO GRNS THRU, NO VIS FLO, PR TO FR INTR GRN POR IN 10%, NO FLSH CUT, V/PR TO PR SLW STRM IN 5%, NO LCH ON DISH

3394'-3395' DOLO- OFF WHT TO CRM W/ TN OIL STN IN 5%, HD DNS TO BRIT IP, F XLN SUCRO MTRX, ABDT IMBD SM TO MD S-RND TO ANG DOLO GRNS THRU, SLI TR IMBD KAOL OR GLAUC IP, NO VIS FLO, FR TO GD INTR XLN POR IN 15%, NO FLUSH CUT, PR TO FR SLW STRM IN 5%, NO LCH ON DISH

DOLO- OFF WHT TO CRM, HD DNS TO BRIT IP, F XLN SUCRO MTRX, ABDT IMBD SM TO MD S-ANG TO ANG DOLO GRNS THRU, TR IMBD KAOL OR GLAUC IP, NO VIS FLO, FR TO GD INTR GRN POR IN 15%, NO VIS CUT OR SHOW

R.T.D. @ 12:15 AM 2/10/13

DROP SURVEY

TOFL

WEATHERFORD/LIBERAL

