

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1255175  
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: \_\_\_\_\_

1255175

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
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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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____					
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity	

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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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. 1094

Date	Sec.	Twp.	Range	County	State	On Location	Finish
3-4-15	21	10	30	Sheridan	KANSAS		4:00 PM
				Location GRINNELL N. EDGE. 3W 2 1/4 N 1/2 E 4S 1W			

Lease	Well No.	Owner	
SCHWARTZ	1-21	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	Charge To		
Discovery Data Rig #4	SAM GARY JR, ASSOCIATES		
Type Job	Street		
Rotary Plug			
Hole Size	T.D. @	City	
9 7/8	4620'	State	
Csg.	Depth @	The above was done to satisfaction and supervision of owner agent or contractor.	
8 5/8 SURFACE	263'	Cement Amount Ordered 255 SX 60/40 48 gel 1/4# FLO-SEAL	
Tbg. Size	Depth @		
4 1/2 X-H	2530'		
Tool	Shoe Joint		
Cement Left in Csg.			

Meas Line	Displace	Common
		153
<b>EQUIPMENT</b>		
Pumptrk	No.	Cementer
18		Glenn G.
		Helper
		CODY B.
Bulktrk	No.	Driver
15		CHAD M.
		Driver
Bulktrk	No.	Driver
		Driver

<b>JOB SERVICES &amp; REMARKS</b>		Hulls
Remarks:		Salt
Rat Hole		Flowseal 62#
Mouse Hole		Kol-Seal
Centralizers		Mud CLR 48
Baskets		CFL-117 or CD110 CAF 38
D/V or Port Collar		Sand
		Handling 264
		Mileage

<b>FLOAT EQUIPMENT</b>		
50 SX @ 2530'		Guide Shoe
100 SX @ 975'		Centralizer
50 SX @ 315'		Baskets
10 SX @ 40'		AFU Inserts
30 SX @ Ratchet		Float Shoe
15 SX @ Mouse hole		Latch Down
		Wooden wiper plug x1
		Pumptrk Charge
		Mileage 22 plug
		Tax
		Discount
		Total Charge

X Signature Mike Sacher

THANKS!



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Samuel Gary Jr. & Assoc.

**Sec. 21 - 10 s. - 30 w./ Sheridan**

1515 Wynkoop Suite 700  
Denver CO 80202

**Schwarz # 1-21**

Job Ticket: 62515

**DST#: 1**

ATTN: Clayton Camozzi

Test Start: 2015.03.02 @ 00:30:00

## GENERAL INFORMATION:

Formation: **L.K.C. 'H - I'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:59:45

Time Test Ended: 09:08:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Bob Hamel

Unit No: 72

**Interval: 4128.00 ft (KB) To 4198.00 ft (KB) (TVD)**

Reference Elevations: 2935.00 ft (KB)

Total Depth: 4198.00 ft (KB) (TVD)

2927.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8845 Outside**

Press@RunDepth: 36.82 psig @ 4132.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.03.02

End Date:

2015.03.02

Last Calib.:

2015.03.02

Start Time: 00:30:05

End Time:

09:08:00

Time On Btm:

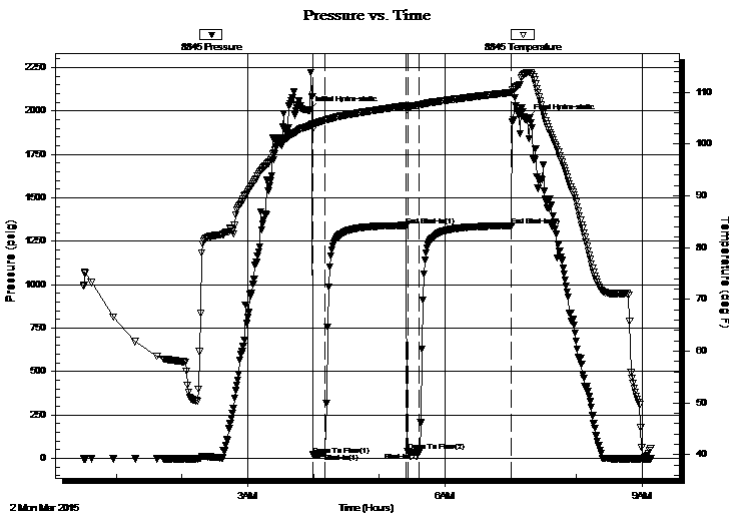
2015.03.02 @ 03:56:00

Time Off Btm:

2015.03.02 @ 07:15:15

**TEST COMMENT:** I.F. - 10 - 1/8" INT. BLOW BUILT TO 1"  
I.S.I. - 75 - NO B.B.  
F.F. - 10 - 1/4" INT. BLOW BUILT TO 1"  
F.S.I. - 75 - NO B.B.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2003.62	103.46	Initial Hydro-static
4	19.87	102.98	Open To Flow (1)
15	31.30	104.54	Shut-In(1)
89	1340.40	107.40	End Shut-In(1)
90	39.03	106.59	Open To Flow (2)
101	36.82	107.50	Shut-In(2)
185	1338.18	109.96	End Shut-In(2)
200	1952.57	113.76	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	S,W,C,M, 10%W 90%M	0.05

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Samuel Gary Jr. & Assoc.

**Sec. 21 - 10 s. - 30 w./ Sheridan**

1515 Wynkoop Suite 700  
Denver CO 80202

**Schwarz # 1-21**

Job Ticket: 62515

**DST#: 1**

ATTN: Clayton Camozzi

Test Start: 2015.03.02 @ 00:30:00

### 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:

14000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.60 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbf
10.00	S,W,C,M, 10%W 90%M	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

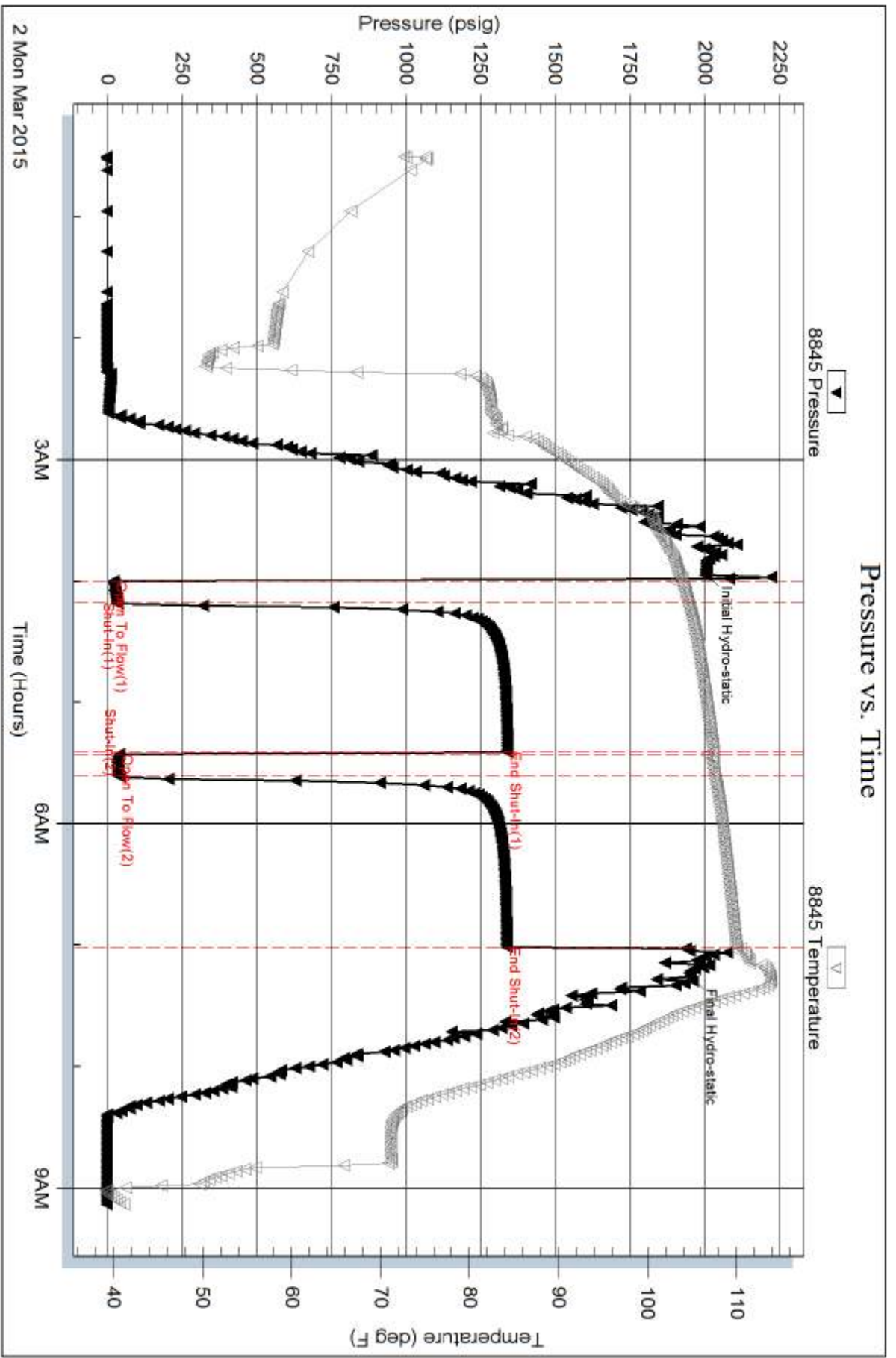
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: R.W. = 0.93 @ 38 DEG





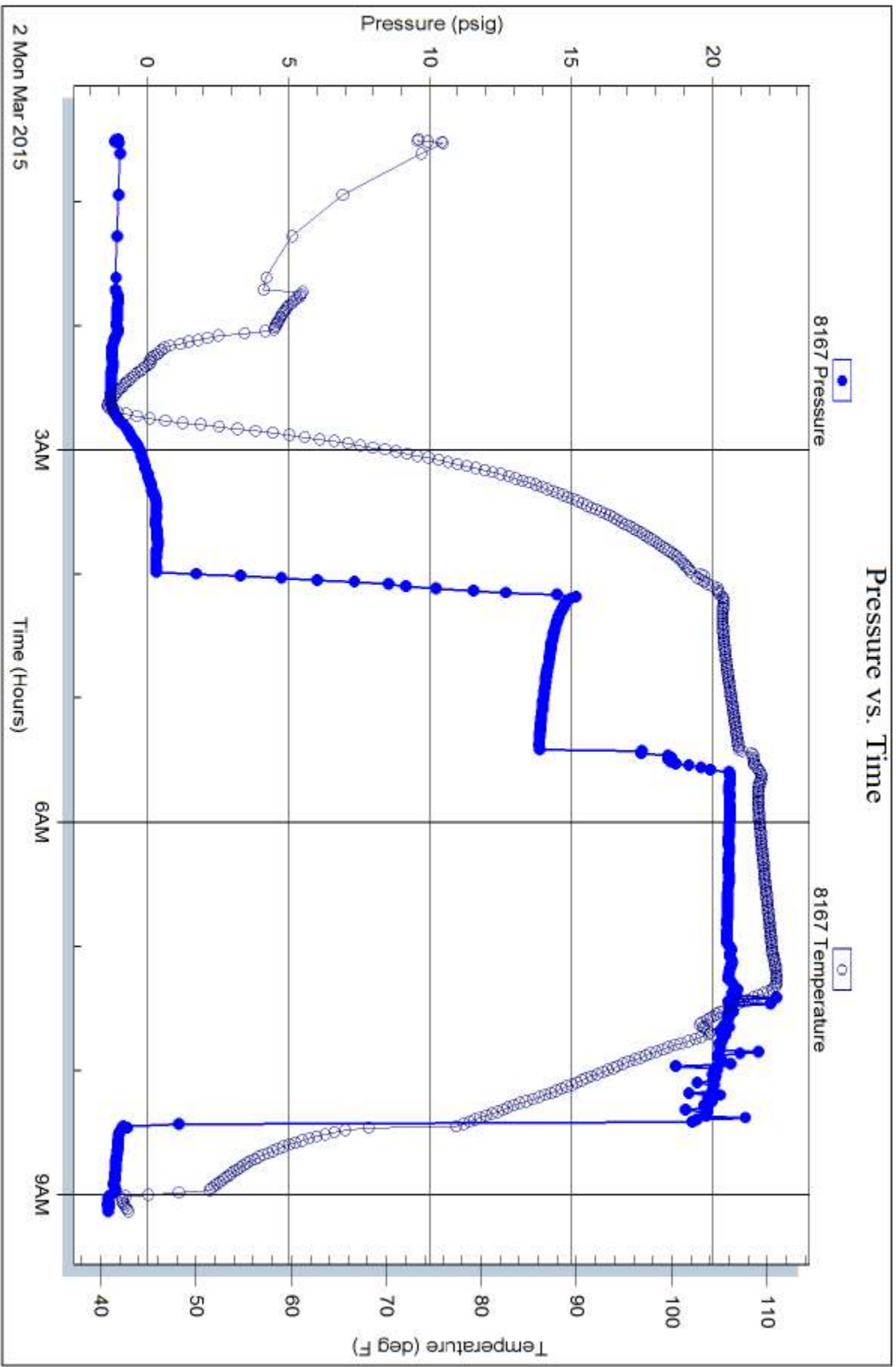
Serial #: 8167

Fluid

Samuel Gary Jr. & Assoc.

Schwartz # 1-21

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 62515

Printed: 2015.03.02 @ 10:22:06



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

Well Name: SGA Schwarz 1-21  
Well Id:  
Location: Sec. 21 10S 30W  
License Number: 15-179-21393  
Spud Date: Feb. 24, 2015  
Surface Coordinates: 660' FSL 1450' FWL

Region: Wildcat  
Drilling Completed: Mar. 4, 2015

Bottom Hole  
Coordinates:  
Ground Elevation (ft): 2927'                      K.B. Elevation (ft): 2935  
Logged Interval (ft): 3900'                      To: 4620'                      Total Depth (ft): 4620'  
Formation: Lansing / Kansas City  
Type of Drilling Fluid: Natural Chemical

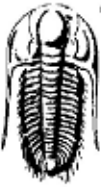
Printed by WellSight Log Manager from WellSight Systems 1-800-447-1534 [www.WellSight.com](http://www.WellSight.com)

**OPERATOR**

Company: Samuel Gary Jr. & Assoc.  
Address: 1515 Winkoop Street, Suite 700  
Denver CO, 80202  
Geo: Clayton Camozzi

**GEOLOGIST**

Name: Jeff Kamps  
Company: EARTH TECH OGL, Inc.  
Address: PO Box 683                      8918 5Th St  
Hooker, Okla 73945                      Great Bend, Ks. 67530  
1-580-652-3924                      1-888-543-8378



**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

Samuel Gary Jr. & Assoc.

Sec. 21 - 10 s. - 30 w./ Sheridan

1515 Wynkoop Suite 700  
Denver Colorado  
80202  
ATTN: Clayton Camozzi

Schwarz # 1-21

Job Ticket: 62515 DST#: 1

Test Start: 2015.03.02 @ 00:30:00

### GENERAL INFORMATION:

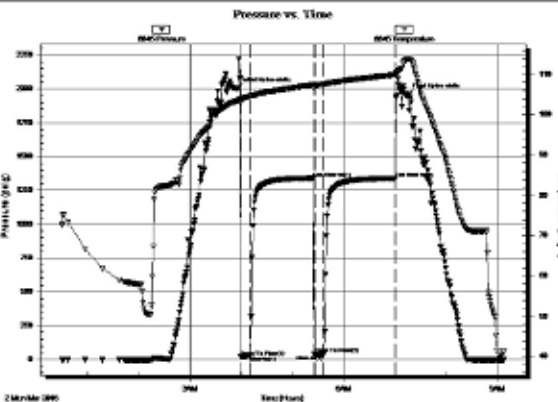
Formation: L.K.C. 'H - I'  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 03:59:45  
Time Test Ended: 09:08:00  
Interval: 4128.00 ft (KB) To 4198.00 ft (KB) (TVD)  
Total Depth: 4198.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Reference Elevations: 2935.00 ft (KB)  
2927.00 ft (CF)  
KB to GR/CF: 8.00 ft

### Serial #: 8845

Outside

Press@RunDepth: 36.82 psig @ 4132.00 ft (KB)  
Start Date: 2015.03.02 End Date: 2015.03.02  
Start Time: 00:30:05 End Time: 09:08:00  
Capacity: 8000.00 psig  
Last Calib.: 2015.03.02  
Time On Btm: 2015.03.02 @ 03:56:00  
Time Off Btm: 2015.03.02 @ 07:15:15

TEST COMMENT: I.F. - 10 - 1/8" INT. BLOW BUILT TO 1"  
I.S.I. - 75 - NO B.B.  
F.F. - 10 - 1/4" INT. BLOW BUILT TO 1"  
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### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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101	36.82	107.50	Shut-in(2)
185	1338.18	109.96	End Shut-in(2)
200	1952.57	113.76	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
10.00	S,W,C,M 10%W 90%M	0.05

### Gas Rates

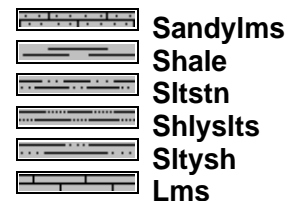
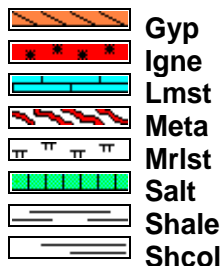
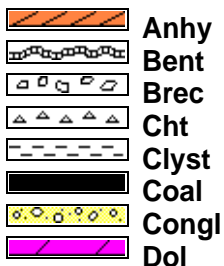
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

Trilobite Testing, Inc

Ref. No: 62515

Printed: 2015.03.02 @ 10:42:07

## ROCK TYPES



### ACCESSORIES

#### MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclfrag
- 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
- Sltly

#### FOSSIL

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

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

#### STRINGER

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

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

#### TEXTURE

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

### OTHER SYMBOLS

#### POROSITY TYPE

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

#### SORTING

- Well
- Moderate
- Poor

#### ROUNDING

- Rounded
- Subrnd
- Subang

- Angular

#### OIL SHOWS

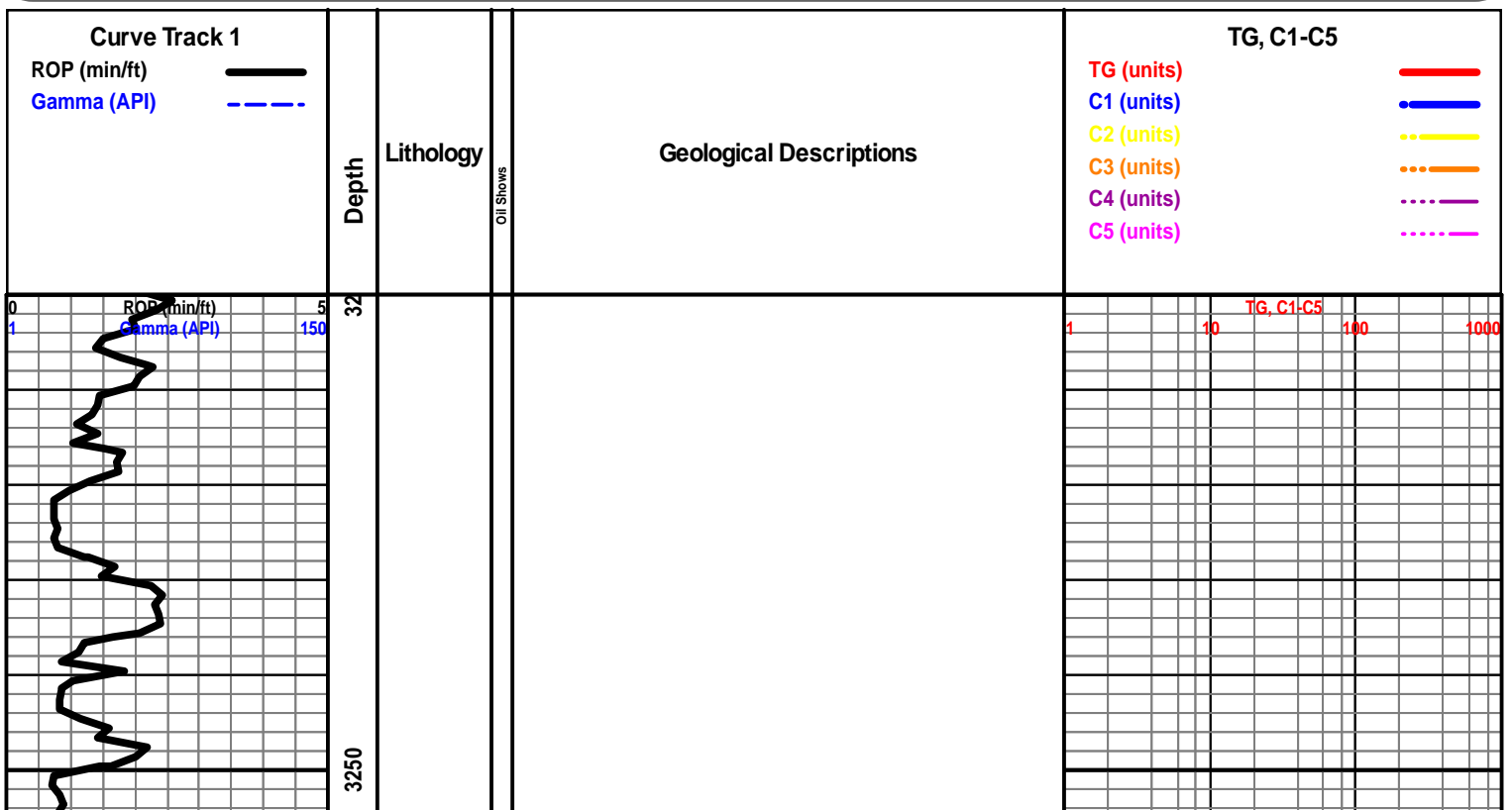
- Even
- Spotted
- Ques
- Dead
- Gas show

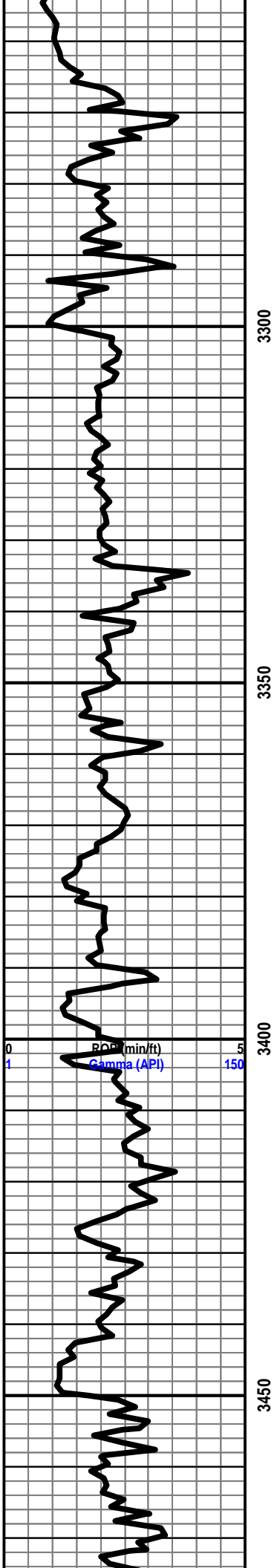
#### INTERVALS

- Core
- Dst
- Dst

#### EVENTS

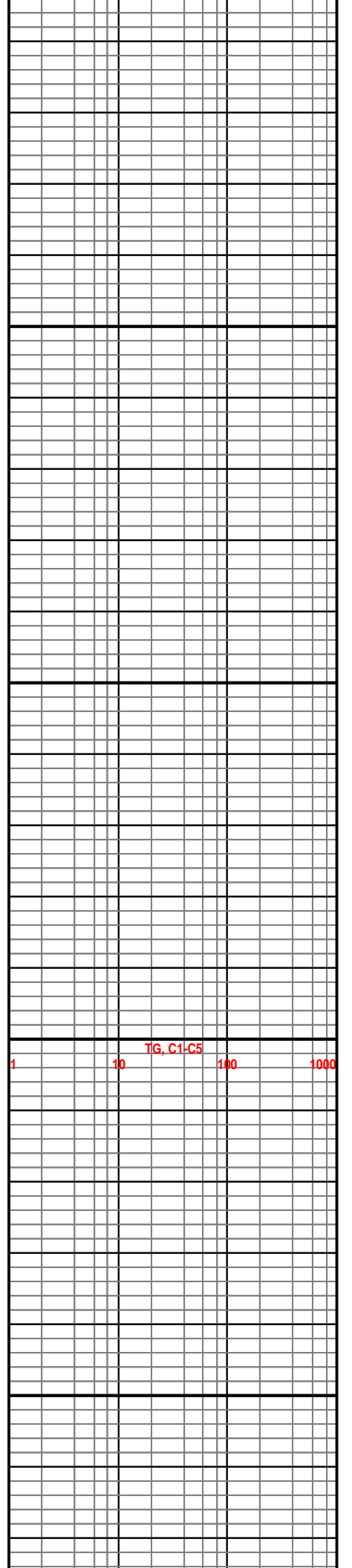
- Rft
- Sidewall

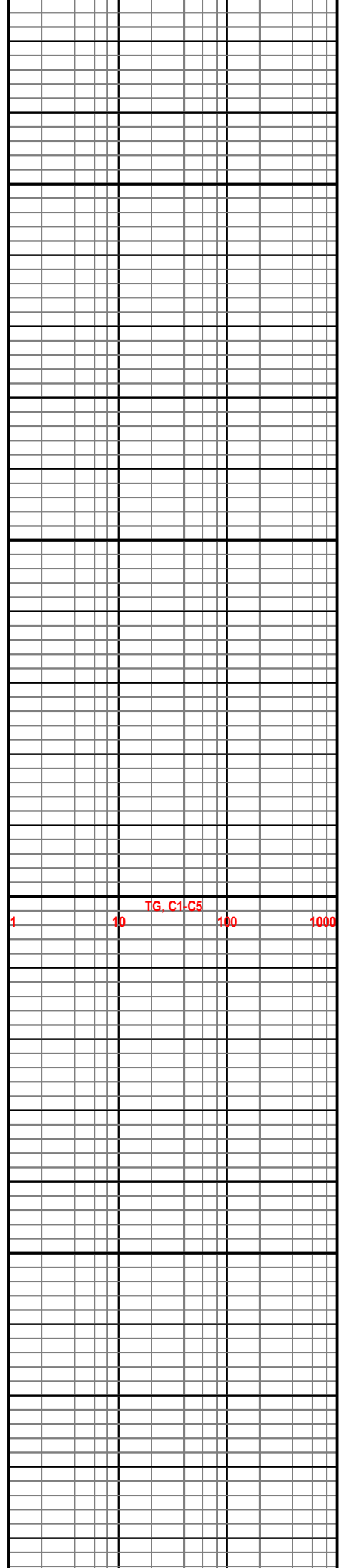
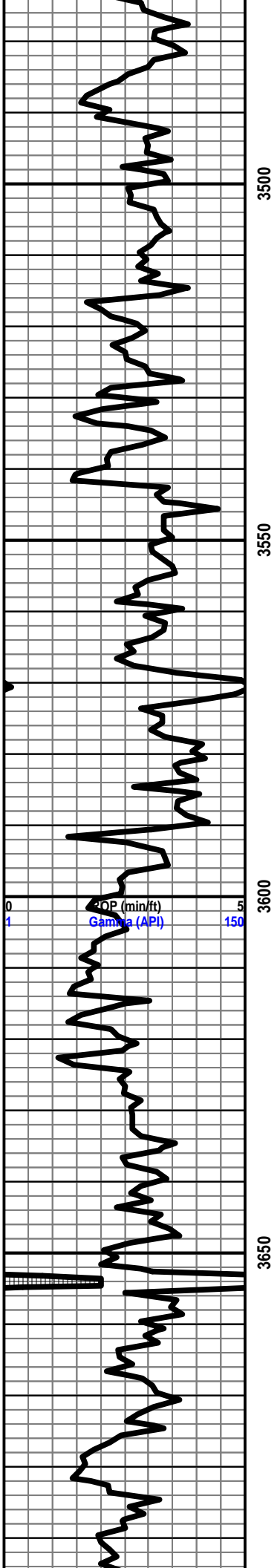


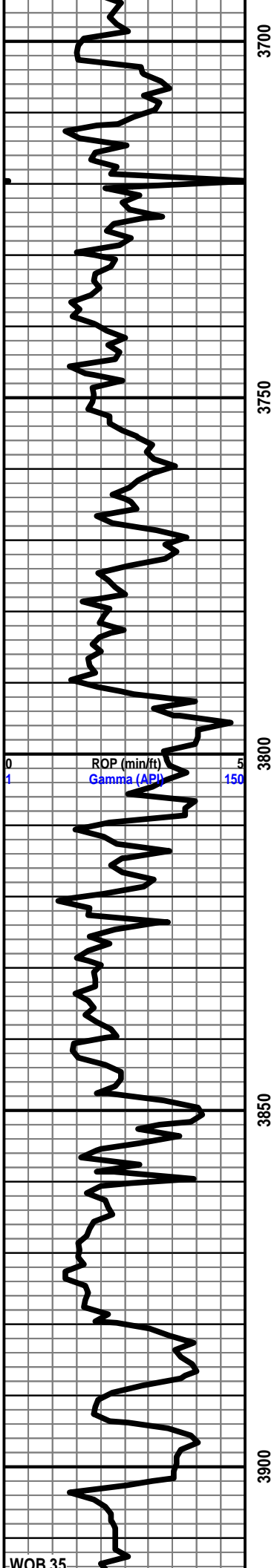


ROP (min/ft)

Gamma (API)





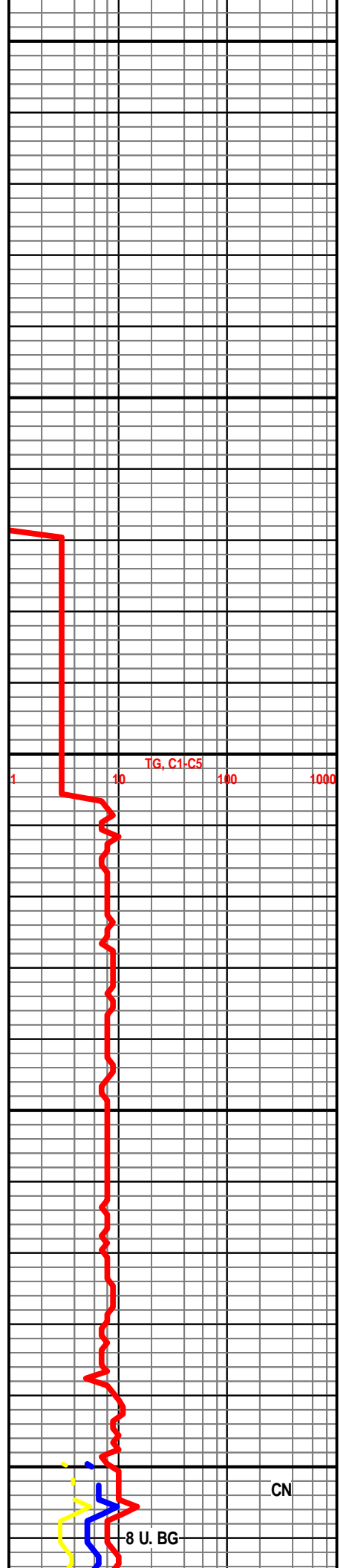


3700  
3750  
3800  
3850  
3900

BEGIN 24 HOUR MANNED UNIT  
8:15 PM FEB 28, 2015

SH - LT GRY TO GRY, FRM TO SFT IP, BLKY SMTH TXT

LC - OFF WLT TO WLT, GRM, HD DNS TO DBTT, FN TO



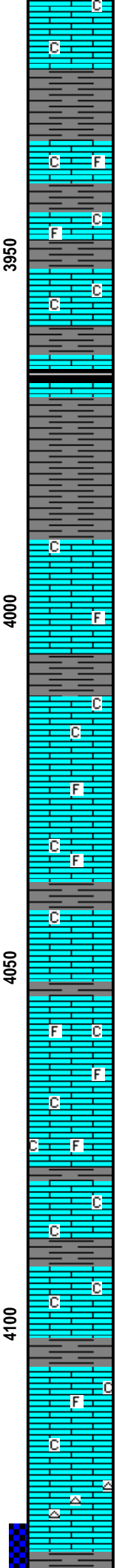
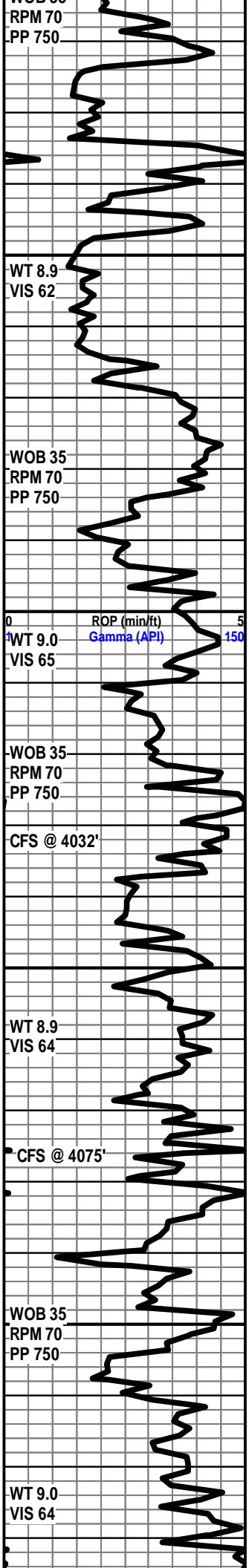
1 10 100 1000

8 U. BG

CN

WOR 35





LS - OFF WHT TO WHT, CRM, HD DNS TO BRIT, FN TO VF-XLN, S-SUCRO, LT TR FREE SFT WHT CHLK, DLL YEL MIN FLO THRU, NO VIS POR, NO CUT OR SHOW

LS - OFF WHT TO WHT, HD DNS TO BRIT, FN TO MD-XLN, S-SUCRO, LT TR IMBD FOSS FRAGS, LT TR IMBD CALC-XLS, FREE SFT WHT CHLK THRU, DLL YEL MIN FLO THRU, PR INTER-FOSS POR IN 2%, NO CUT OR SHOW

LS - OFF WHT TO WHT, HD DNS TO BRIT, MD-XLN TO FN-XLN IP, S-CHLKY, ABDT FREE SFT WHT CHLK, DLL YEL MIN FLO IP, NO VIS POR, NO CUT OR SHOW

**HEEBNER 3967' (-1032')**

SH - LT GRY TO GRY, FRM TO SFT IP, BLKY SMTH TXT

LS - OFF WHT TO WHT, CRM IP, HD DNS TO BRIT, MD-XLN TO FN-XLN, S-SUCRO, LT TR FREE SFT WHT CHLK, DLL YEL MIN FLO IP, NO VIS POR, NO CUT OR SHOW

**LANSING 4012' (-1077')**

LS - OFF WHT TO WHT, HD DNS TO BRIT, FN TO MD-XLN, S-SUCRO, LT TR IMBD FOSS FRAGS, ABDT FREE SFT WHT CHLK, DLL YEL MIN FLO THRU, NO VIS POR, NO CUT OR SHOW

**LANSING "C" 4042' (-1107')**

LS - OFF WHT TO WHT, HD DNS TO BRIT, FN TO MD-XLN, S-CHLKY, ABDT FREE SFT WHT CHLK, LT TR IMBD FOSS FRAGS, DLL YEL MIN FLO IP, PR INTER-XLN POR IN 1%, NO CUT OR SHOW

LS - OFF WHT TO WHT, LT GRY IP, HD DNS TO BRIT, FN TO MD-XLN, S-SUCRO, LT TR IMBD FOSS FRAGS, LT TR IMBD CALC-XLS, DLL YEL MIN FLO IP, NO VIS POR, NO CUT OR SHOW

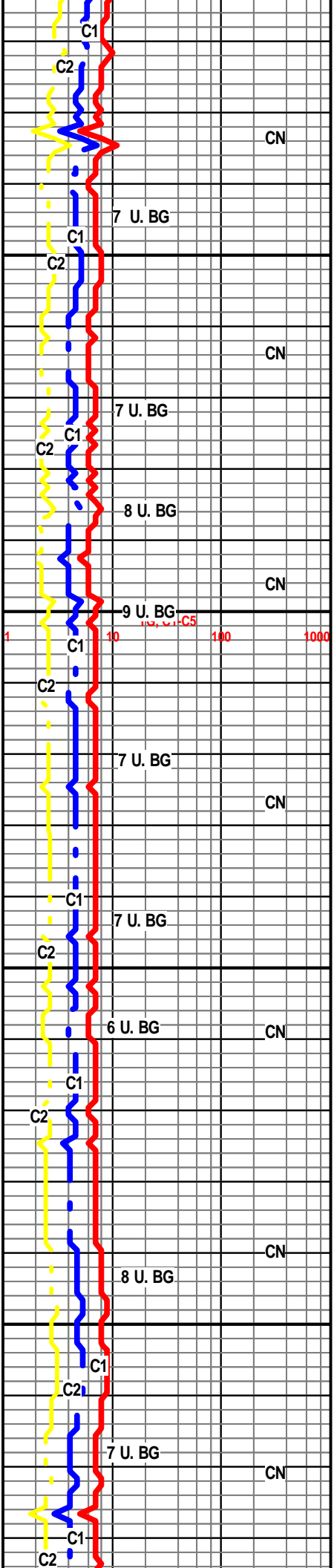
**LANSING "F" SHALE 4078' (-1151')**

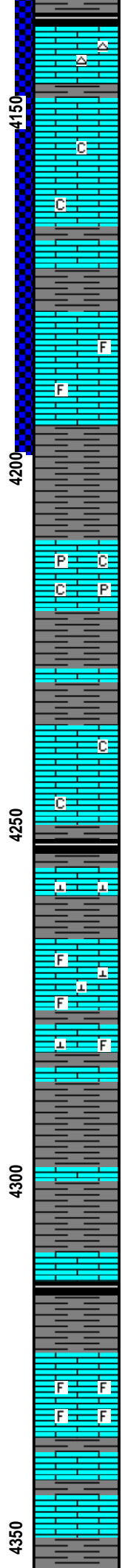
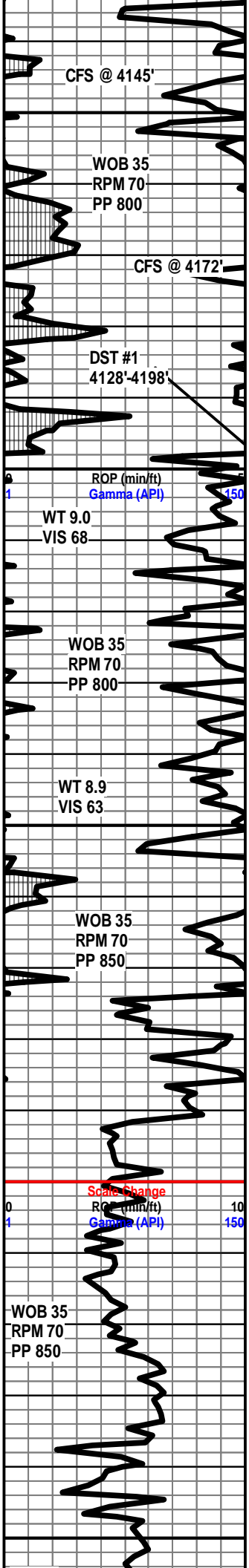
LS - WHT TO OFF WHT, HD DNS TO BRIT, FN TO VF-XLN, S-SUCRO, ABDT FREE SFT WHT CHLK THRU, DLL YEL MIN FLO IN 40%, PR INTER-XLN POR IN 1%, NO CUT OR SHOW

LS - OFF WHT TO WHT, CRM IP, HD DNS TO BRIT, FN TO VF-XLN, S-SUCRO, ABDT FREE SFT WHT CHLK THRU, DLL YEL MIN FLO IP, NO VIS POR, NO CUT OR SHOW

LS - OFF WHT TO WHT, LT GRY IP, HD DNS TO BRIT, FN TO MD-XLN, S-CHLKY, ABDT FREE SFT WHT CHLK, LT TR IMBD FOSS FRAGS, DLL YEL MIN FLO THRU, NO VIS POR, NO CUT OR SHOW

LS - OFF WHT TO WHT, LT GRY IP, HD DNS TO BRIT, FN TO VF-XLN, CRYPTO-XLN IP, S-SUCRO, FREE S-ANG OFF WHT CHRT, DLL YEL MIN FLO THRU, NO VIS POR, NO CUT OR SHOW





SH - SFT BLK CARB

LS - OFF WHT TO LT GRY, MOTT, HD DNS TO BRTT, FN TO MD-XLN, RE-XLN IP, S-SUCRO, LT TR FREE S-ANG OFF WHT CHRT, DLL YEL MIN FLO IP, NO VIS POR, NO CUT OR SHOW

LS - OFF WHT TO WHT(W/ LT TN OIL STN IN 30%) HD DNS TO BRTT, FN TO MD-XLN, S-SUCRO, LT TR IMBD SFT WHT CHLK, YEL GLD FLO IN 30%, SPTTD BRI YEL FLO IN 10%, FR TO GD VUG POR IN 3%, FR MICRO VUG POR IN 1%, GD INST FLSH CUT, FR TO GD SLOW STRM CUT IN 10%, NO ODOR, LT TN LCH ON DISH

LS - OFF WHT TO WHT, CRM IP, (W/LT TN TO TN OIL STN IN 40%) HD DNS TO BRTT, FN TO MD-XLN, RE-XLN IP, S-SUCRO, TR IMBD FOSS FRAGS, YEL GLD FLO IN 70%, SPTTD BRI YEL FLO IN 20%, GD INTER-FOSS POR IN 2%, GD VUG POR IN 2%, GD TO EXCEL INST FLSH CUT, FR SLOW STRM CUT IN 30%, NO OIL ODOR, LT TN LCH ON DISH

SH - LT BRWN TO GRY, RD IP, SFT TO FRM IP, BLKY SMTH TXT

**LANSING "J" 4211' (-1276')**

LS - OFF WHT TO WHT, HD DNS TO BRTT, FN TO VF-XLN, CRYPTO-XLN IP, S-SUCRO, TR FREE SFT WHT CHLK, LT TR IMBD PYR, NO VIS FLO, NO VIS POR, NO CUT OR SHOW

SH - LT GRY TO GRY, FRM TO SFT IP, BLKY SMTH TXT

LS - OFF WHT TO WHT, LT GRY IP, MOTT, HD DNS TO BRTT, FN TO MD-XLN, VF-XLN IP, S-SUCRO, LT TR FREE SFT WHT CHLK, NO VIS FLO, NO VIS POR, NO CUT OR SHOW

LS - OFF WHT TO WHT, LT GRY, MOTT, HD DNS TO BRTT, MD-XLN TO FN-XLN, S-SUCRO, LT TR IMBD CALC-XLS, DLL YEL MIN FLO IN 30%, NO VIS POR, NO CUT OR SHOW

LS - OFF WHT TO WHT, CRM IP, HD DNS TO BRTT, FN TO VF-XLN, S-SUCRO, LT TR IMBD CALC-XLS, LT TR FREE FOSS FRAGS, DLL YEL MIN FLO IP, NO VIS POR, NO CUT OR SHOW

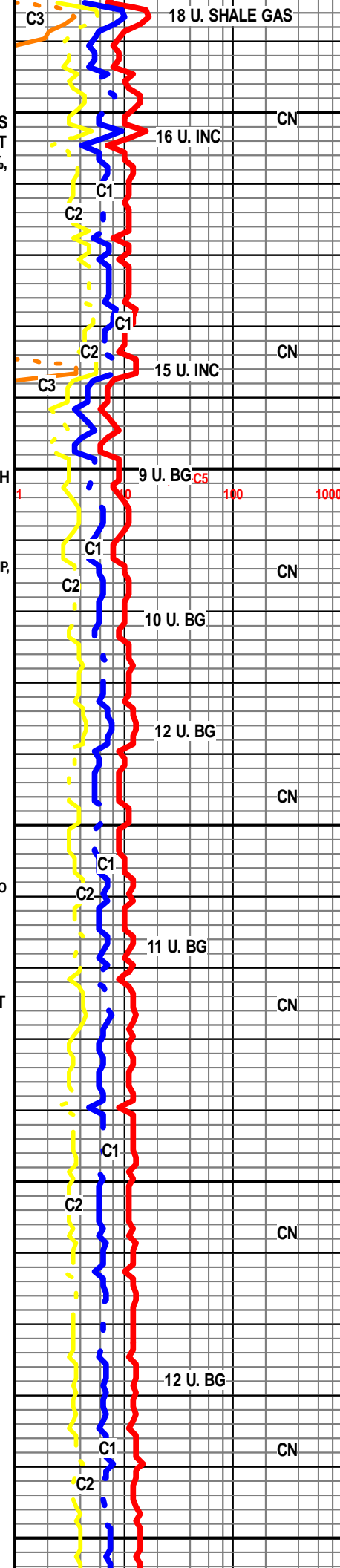
**BKC 4282' (-1347')**

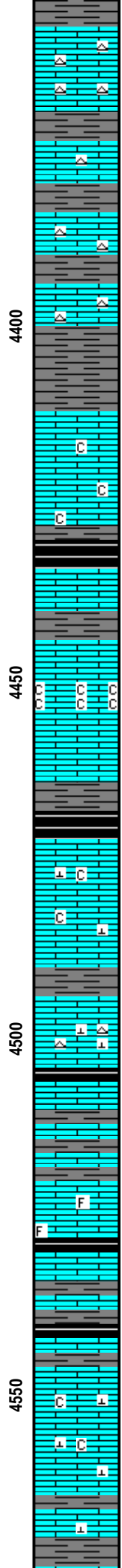
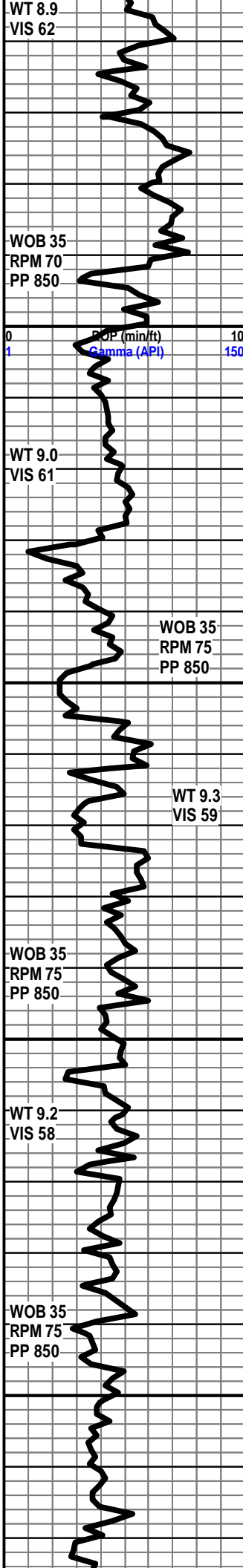
SH - LT GRY TO GRY, FRM TO SFT IP, BLKY SMTH TXT

LS - OFF WHT TO WHT, GRY IP, MOTT, HD DNS TO BRTT, FN TO MD-XLN, S-SUCRO, DLL YEL MIN FLO IP, NO VIS POR, NO CUT OR SHOW

LS - OFF WHT TO WHT, LT RD IP, HD DNS TO BRTT, MD-XLN TO RE-XLN, S-CHLKY, ABTD IMBD FOSS FRAGS, DLL YEL MIN FLO THRU, PR TO FR INTER-FOSS POR IN 3%, NO CUT OR SHOW

LS - OFF WHT TO WHT, HD DNS TO BRTT, FN TO VF-XLN, S-SUCRO, TR LMNTD BLK SH, NO VIS FLO, NO VIS POR, NO CUT OR SHOW





LS - OFF WHT TO WHT, HD DNS TO BR TT, VF-XLN TO CRYPTO-XLN, AB DT FREE S-ANG OFF WHT CH RT, DLL YEL MIN FLO IN 40%, NO VIS POR, NO CUT OR SHOW

LS - OFF WHT TO WHT, CRM IP, HD DNS TO BR TT, FN TO MD-XLN, S-SUCRO, AB DT FREE S-ANG OFF WHT CH RT, DLL YEL MIN FLO IP, NO VIS POR, NO CUT OR SHOW

SH - GR Y TO LT GR Y, SFT TO GMM Y, SM TH SLTY TXT

LS - OFF WHT TO WHT, HD DNS TO BR TT, FN TO MD-XLN, S-CH LKY, AB DT FREE SFT WHT CH LK TH RU, LT TR FREE S-ANG OFF WHT CH RT, DLL YEL MIN FLO TH RU, NO VIS POR, NO CUT OR SHOW

**LABETTE 4435' (-1500')**

LS - OFF WHT TO WHT, CRM IP, MOTT, HD DNS TO BR TT, FN TO MD-XLN, RE-XLN IP, S-SUCRO, DLL YEL MIN FLO IP, NO VIS POR, NO CUT OR SHOW

LS - OFF WHT TO WHT, HD DNS TO BR TT, FN TO VF-XLN, S-CH LKY, AB DT FREE SFT WHT CH LK TH RU, TR FREE S-ANG OFF WHT CH RT, DLL YEL MIN FLO IP, NO VIS POR, NO CUT OR SHOW

SH - SFT BLK CARB

**FT. SCOTT 4472' (-1537')**

LS - OFF WHT TO WHT, CRM IP, HD DNS TO BR TT, FN TO VF-XLN, S-CH LKY, LT TR IMBD CALC-XLS, TR FREE PYR, DLL YEL MIN FLO IN 30%, NO VIS POR, NO CUT OR SHOW

LS - OFF WHT TO LT GR Y, TN IP, HD DNS TO BR TT, FN TO MD-XLN, RE-XLN IP, S-SUCRO, LT TR IMBD CALC-XLS, NO VIS FLO, NO VIS POR, NO CUT OR SHOW

**CHEROKEE 4506' (-1571')**

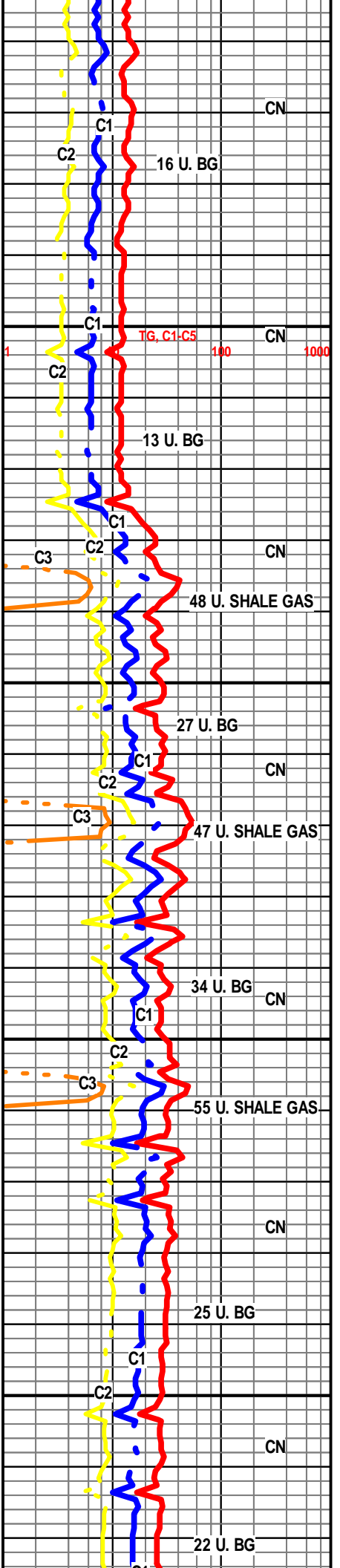
LS - OFF WHT TO CRM, HD LT GR Y IP, MOTT, HD DNS TO BR TT, S-SUCRO, FREE S-ANG OFF WHT CH RT, NO VIS FLO, NO VIS POR, NO CUT OR SHOW

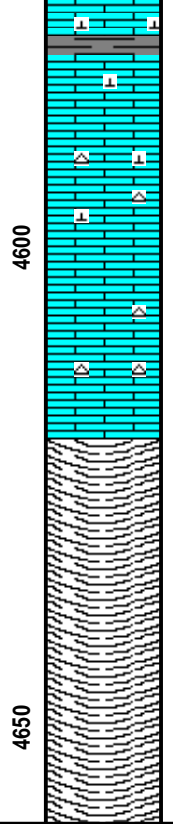
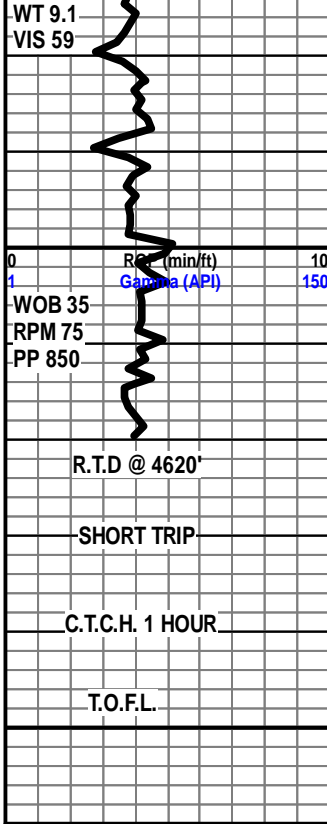
LS - OFF WHT TO LT TN, MOTT, HD DNS TO BR TT IP, FN TO MD-XLN, S-SUCRO, LT TR FREE FOSS FRAGS, YEL MIN FLO IN 30%, NO VIS POR, NO CUT OR SHOW

LS - OFF WHT TO CRM, HD DNS TO BR TT, FN TO VF-XLN, MD-XLN IP, S-SUCRO, TR FREE SFT WHT CH LK, DLL YEL MIN FLO IN 30%, NO VIS POR, NO CUT OR SHOW

LS - OFF WHT TO WHT, TN IP, HD DNS TO BR TT, FN TO MD-XLN, S-SUCRO, IMBD CALC-XLS, TR FREE SFT WHT CH LK, DLL YEL MIN FLO IP, NO VIS POR, NO CUT OR SHOW

LS - OFF WHT TO WHT, HD DNS TO BR TT, FN TO VF-XLN





LS - OFF WHT TO WHT, HD DNS TO BRTT, FN TO VF-XLN,  
S-SUCRO, TR IMBD CALC-XLS, DLL YEL MIN FLO IN 20%,  
NO VIS POR, NO CUT OR SHOW

LS - OFF WHT TO CRM, HD DNS TO BRTT, FN TO VF-XLN,  
S-SUCRO, LT TR IMBD CALC-XLS, LT TR FREE S-ANG OFF  
WHT CHRT, DLL YEL MIN FLO IP, NO VIS POR, NO CUT  
OR SHOW

LS - OFF WHT TO WHT, CRM IP, HD DNS TO BRTT, FN TO  
VF-XLN, MD-XLN IP, S-SUCRO, DLL YEL MIN FLO IN 30%,  
NO VIS POR, NO CUT OR SHOW

R.T.D. @ 4620' AT 11:00PM ON MAR. 3, 2015

LOGGING SERVICES COMPLETED BY: WEATHERFORD

