Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1185146

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 # 34805
Name: Seneca Resources Corporation
Address 1: 1201 LOUISIANA ST
Address 2:
City: HOUSTON State: TX Zip: 77002 + __ __ __ __
Contact Person: Josh McLaughiln
Phone: (412) 548-2500
CONTRACTOR: License # 5929
Name: Duke Drilling Co., Inc.
Wellsite Geologist: Empirica Mudlogging
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 #:

10/26/2013 — Spud Date or Recompletion Date
11/13/2013 — Date Reached TD
1/09/2014 — Completion Date or Recompletion Date

API No. 15 - 15-151-22421-00-00
Spot Description:
NW NE NE NW Sec. 14 Twp. 27 S. R. 12 ☐ East ☑ West
5141 Feet from ☐ North / ☑ South Line of Section
2978 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☑ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Pratt
Lease Name: Greengroup Well #: 14A-SWD
Field Name: Barnes NW
Producing Formation: Arbuckle
Elevation: Ground: 1861 Kelly Bushing: 1871
Total Vertical Depth: 5333 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 360 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: 8675 ppm Fluid volume: 3770 bbls
Dewatering method used: Haul Off Pit
Location of fluid disposal if hauled offsite:
Operator Name: JB Oilfield Services
Lease Name: LoJo Disposal Pit License #: 00000
Quarter SE Sec. 9 Twp. 26 S. R. 1 ☐ East ☑ West
County: Woods, OK Permit #: 563714

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: 01/30/2014
☑ **Confidential Release Date:** 01/30/2016
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☑ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 01/31/2014

[redacted] 1185146

Operator Name: Seneca Resources Corporation Lease Name: Greengroup Well #: 14A-SWD

Sec. 14 Twp. 27 S. R. 12 ☐ East ☑ West County: Pratt

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 ☐ Yes ☑ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☑ Yes ☐ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Neutron/Density
Induction
Sonic

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name: Attached Top: Attached Datum: Attached

CASING RECORD ☑ New ☐ 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
Surface	17.5	13.375	48	360	See attached	345	See Attached
Intermediate	12.25	9.625	36	1974	See attached	750	See Attached
Production	8.75	7	26	4602	See Attached	220	See Attached

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate ___ Protect Casing ___ Plug Back TD ___ 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 *(Amount and Kind of Material Used)*	Depth

TUBING RECORD: Size: 3.5 Set At: 4508 Packer At: 4508 Liner Run: ☐ Yes ☑ No

Date of First, Resumed Production, SWD or ENHR. 01/25/2014

Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☑ Other *(Explain)* taking fluid on vacuum

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

DISPOSITION OF GAS:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☑ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)* _____

PRODUCTION INTERVAL:
_____
_____

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Seneca Resources Corporation
Well Name	Greengroup 14A-SWD
Doc ID	1185146

Tops

Name	Top	Datum
Heebner	3521	-1650
Lansing	3722	-1851
Cherokee Shale	4150	-2279
Mississippian	4178	-2307
Kinderhook Shale	4320	-2449
Viola	4368	-2497
Simpson Shale	4446	-2575
Arbuckle	4536	-2665

Form	ACO1 - Well Completion
Operator	Seneca Resources Corporation
Well Name	Greengroup 14A-SWD
Doc ID	1185146

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	17.5	13.375	48	360	See attached	345	See Attached
Intermediate	12.25	9.625	36	1974	See attached	750	See Attached
Production	8.75	7	26	4602	See Attached	220	See Attached

Well Completion Form

Casing Record Supplemental Data

Seneca Resources
Greengroup 14A-SWD
15-151-22421
Sec. 14-27S-12W
Pratt County, Kansas

Purpose of String	Hole Size	Casing Size	Weight	Depth	Cement Type	Sacks Used	Type/Percent Additives
Surface	17-1/2"	13-3/8"	48 lb/ft	360'	65/35 Poz	195 sx	6% gel, 3% CaCl, 1/4 lb celloflake
					Common	150 sx	2% gel, 1/4 lb celloflake
Intermediate	12-1/4"	9-5/8"	36 lb/ft	1,974'	Common	500 sx	3% CaCl, 2% m-silicate, 2% gypsum, 1/4 lb celloflake
					Common	250 sx	2% CaCl, 1/4 lb celloflake
Production	8-3/4"	7"	26 lb/ft	4,602'	65/35 Poz	80 sx	6% gel, 1/4 lb celloflake
					Premium	140 sx	0.8% FL, 0.3% FR, 0.25% defoam, 10% gypsum, 10% salt, 1/4 lb celloflake, 5 lb gilsonite

BASIC energy services, L.P.

TREATMENT REPORT

Customer Seneca Resources Corp	Lease No.	Date 10-27-13	
Lease Greengroup Unit	Well # 14A-SWD		
Field Order # 9058	Station	Casing 13 3/8 Depth 361	County Pratt State KS
Type Job cnw conductor	Formation	Legal Description 14-27S-12W	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size 13 3/8	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
Depth 361	Depth	From	To	Pre Pad	Max		5 Min.
Volume 51	Volume	From	To	Pad	Min		10 Min.
Max Press	Max Press	From	To	Frac	Avg		15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth 361	Packer Depth	From	To	Flush	Gas Volume		Total Load

Customer Representative Rod | Station Manager Kevin | Treater Joe

Service Units	19884	19843	19960	21010	28443						
Driver Names	Ed		Jesse		Joe						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
115					On Loc / safety meeting
					Run 9 JTS 48# csg
					cent. on 1-4-7
200					Start Running csg
300					Csg on Bottom / Break circ with Rig
					Hook up to Pump to start Job.
340			5	6	H20 Spacer
			56	6	mix 195sk A-serv. Lite @ 13.36#
			32	6	mix 150sk common @ 15.6#
					Start H20 Disp.
			40	5	cement to surface
420			57	0	Plug Down
					17 BBL cement to surface
					Job complete
					Thankyou

Taylor Printing, Inc. 620-672-3656

BASiC energy services, L.P.

TREATMENT REPORT

Customer SCNETZI KS.	Lease No.	Date
Lease	Well # 14-A	10-30-13

Field Order #	Station	Casing	Depth	County	State
9097	PRATT KS	7 7/8	1772'	PRATT	KS

Type Job	Formation	Legal Description
CNW 7 7/8 Su. face		14-27-12

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME			
Casing Size 7 7/8	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
Depth 1772	Depth	From	To	Pre Pad	Max			5 Min.
Volume 149	Volume	From	To	Pad	Min			10 Min.
Max Press 1,000	Max Press	From	To	Frac	Avg			15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used			Annulus Pressure
Plug Depth 1732	Packer Depth	From	To	Flush	Gas Volume			Total Load

Customer Representative	Station Manager	Treater
	Scott	Robert

Service Units	37900	27463	19831	19862	19960	21010	78918	19860			
Driver Names	Sullivan	Metal	Khunn...		NATC		JESSE				

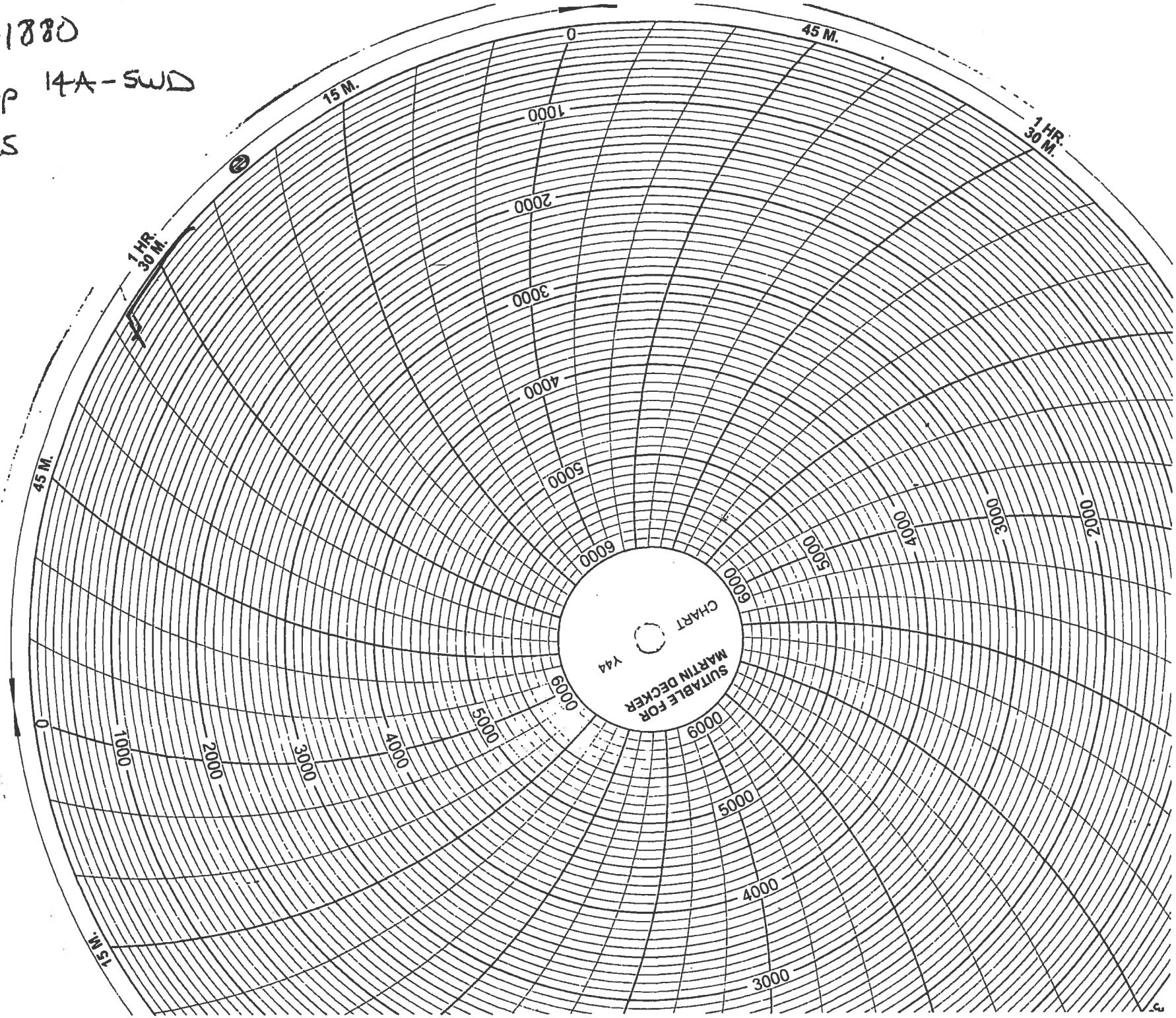
Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
4:50					ON loc Safty meety
					CASING Circulate By Rig bottom
5:15	200		5	6	St SPACER
					St mixing cmt 500sk H-CON Blend
			246		yield 2.77 water/sk 16.75 mix 11.4 ppg
			53		mix Tail cmt 250sk common
					2% cc 1/4 cell Flk mix 15.6 ppg. 1.20 yield 5.2 H2O
					cmt mixed Shut down
					Release Plug
6:05	200			6.5	St Disp
	500		70	3.5	Slow Rate water low TANK
7:00	700		149		Plug down Float Held.
7:15				1.5	Run ONE Joint 1" cut to
7:30			7		Surface 25 sk.
					JOB Complete
					9 bbls - 5 bbls
					Thank you

10244 NE Hiway 61 • P.O. Box 8613 • Pratt, KS 67124-8613 • (620) 672-1201 • Fax (620) 672-5383

AFE 131880

Greengroup 14A-SWD

Kansas



BASiC energy services, L.P.

TREATMENT REPORT

Customer: Sandridge Exploration [illegible]	Lease No.		Date: 11-10-13
Lease: Girrangrand 14A-SWD	Well #: 14 A - SWD		
Field Order #: 9365	Station: Pratt	Casing: 7"	Depth
County: Pratt	State: KS		
Type Job: CNW 7"	Formation	Legal Description: 14-27S-12W	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size: 7"	Tubing Size	Shots/Ft		Acid: 80 sk A-Serv lite	RATE: 6% gel	PRESS	ISIP: 1/4 # cf
Depth: 4605.27	Depth	From	To	Pre Pad: 140 sk Premium	Max: class H	1/4 cf	5 Min: .25 defoamer
Volume: 176.38	Volume	From	To	Pad: 10% salt	Min: CRR	10% gyp.	.5% C-37
Max Press: 1500	Max Press	From	To	Frac: 5# gilsonite	Avg		15 Min.
Well Connection: P.C.	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth: 4559.42	Packer Depth	From	To	Flush	Gas Volume		Total Load

Customer Representative: Rod Mills — Station Manager: Kevin Gordley — Treater: Mike Mattal

Service Units	37586		77686	19905		19960	21010				
Driver Names	Mattal		Ortiz			Phye					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
3:00					On location / safety meeting
7:00					Run 7in csng
1:05					On bottom
1:10					Hook up to csng / break circ w rig
→					Rig down casing crew / rig up cmt crew
2:50	200		12	5	Pump 12 bbl mud flush
2:53	200		5	5	Pump 5 bbl H_2O
2:54	200		28	6	Mix 80 sks A-serv lite
3:05	200		43	6	Mix 140 sks premium
3:12	100			6	Release plug, start displacement
3:45	700		160	3.5	Slow rate to 3.5
3:49	1100		176		Plug down, released & held
					Circ thru job
					Job complete
					Thank you
					Mike Mattal

10244 NE Hiway 61 • P.O. Box 8613 • Pratt, KS 67124-8613 • (620) 672-1201 • Fax (620) 672-5383

Seneca Resources Corporation
Greengroup 14A-SWD
15-151-22421
Sec. 14-27S-12W
Pratt County, Kansas

Formation	Log Top TVD	Log Top Subsea
Heebner	3521	-1650
Lansing	3722	-1851
Cherokee Shale	4150	-2279
Mississippian	4178	-2307
Kinderhook Shale	4320	-2449
Viola	4368	-2497
Simpson Shale	4446	-2575
Arbuckle	4536	-2665

EMPIRICA

The Surface Logging Company

Scale: 5" / 100'
Measured Depth Log

Well Name	Greengroup 14A SWD		
Location	Sec 14, T27S, R12W		
State	Kansas	**County**	Pratt
Country	United States	**Rig Number**	Duke 10
API Number	15-151-22421	**AFE #**	131880
Region	Gulf		
Spud Date	10-26-2013	**Drilling Completed**	11/13/2013
Surface Coordinates	156' FNL & 2338' FWL of Sec 14, T27s, R12W		
Ground Elevation	1861	**K.B. Elevation**	10
Logged Interval	430 **To** 5331	**Total Depth**	5331
Formation	Arbuckle		
Type of Drilling Fluid	Water Based		

Operator

Company Seneca Resources Corp.

Address McCandless Corporate Center
5800 Corporate Drive, Suite 300
Pittsburgh, PA 15237

Geologist

Name Paul Campbell/ Dan Dage/ Sam Morris

Company Empirica Surface Logging

Address 609 Westland Srive
Edmond, OK 73013

Other

Product Description	Regular 2 Man Logging Service Logging Began: 10-25-2013 Released: 11-13-2013
Equiptment	M Logger: #321 Powerware: Geofield #224
Calibration	Standard Calibration for Redbox Total Gas & Chromatigraph

Core Information

Contractor Intertek Westport Labs

Core # 1

Formation Hushpuckney through the Mississippian

Core Intervals

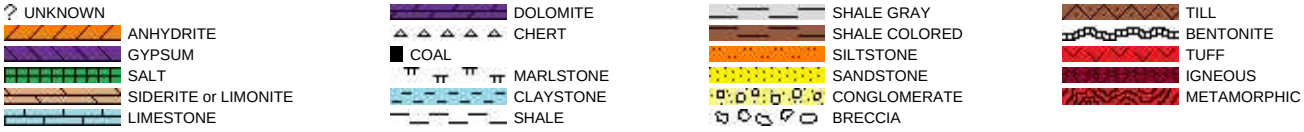
From	To	Cut	Recovered
4120.0	4175.0	55.0	55.0
4176.0	4197.0	21.0	21.0
4197.0	4204.0	7.0	7.0
4204.0	4231.0	27.0	26.0
4231.0	4235.0	4.0	3.0

Bit Type Corel CP 613

Size 8.75"

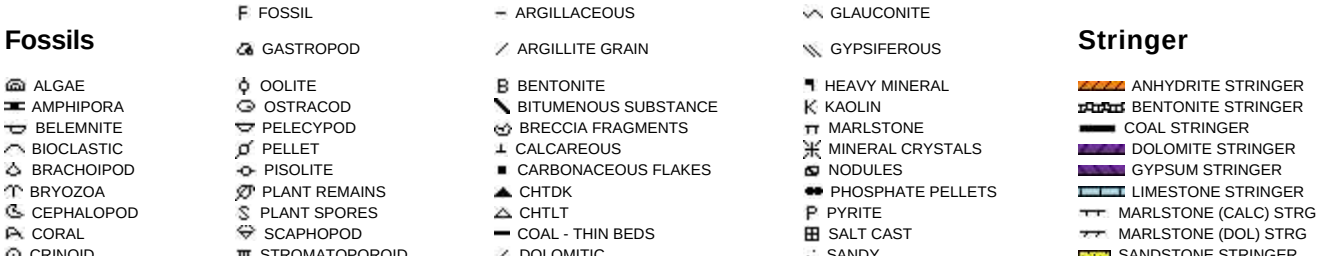
Coring Time 8.56 Hrs

Rock Types



Accessories

Fossils



Stringer

ECHINOID

FISH

FORAMINIFERA

Minerals

ANHYDRITIC

FELDSPAR

FERRUGINOUS PELLET

FERRUGINOUS

SILICEOUS

SILTY

TUFFACEOUS

SHALE STRINGER

SILTSTONE STRINGER

Other Symbols

Oil Show

DEAD

EVEN

QUESTIONABLE

SPOTTED STAINING

Porosity

EARTHY

FENESTRAL

FRACTURE

INTERCRYSTALLINE

INTEROOLITIC

MOLDIC

ORGANIC

PINPOINT

VUGGY

Engineering

BIT

CONNECTION (LEFT)

CONNECTION (RIGHT)

CONNECTION GAS

CORE - LOST

CORE - RECOVERED

DST INTERVAL

FAULT

FORMATION TOP

GAS SHOW

MN DEPTH

NORMAL FAULT

OIL SHOW

OVERTURNED STRATA

REVERSE FAULT

SIDEWALL CORE (LEFT)

SIDEWALL CORE (RIGHT)

SLIDE

SURVEY

TRIP GAS

WIRELINE TESTED - LEFT

WIRELINE TESTED - RT

Rounding

ANGULAR

ROUNDED

SUBANG

SUBRND

Textures

BOUNDSTONE

CHALKY

CRYPTOXLN

EARTHY

FINELYXLN

GRAINSTONE

LITHOGRAPHIC

MICROXLN

MUDSTONE

PACKSTONE

WACKESTONE

Sorting

MODERATE

POOR

WELL

Curve/Survey Data
ROF
GR
Slide/Rotate
Depth Labels
Interp Lith
% Porosity
Oil Show
Lithology Descriptions
% Lith
Images
Total Gas & Chromatograph
GAS
C1
C2
C3
C4

0 ROP (min/ft.) 15

BLACK = CORE

= CORED INTERVAL

0 ROP (min/ft.) 110

SPM: 54
PP: 997

400
450
500
550

20 40 60 80
20 40 60 80

Seneca Resources

Greengroup 14A-SWD
Pratt County, KS
Sec 14, T27S, R12W

2 Man Logging Began 10-25-2013

Bit #: 2
Type: SMITH FH16H
Size: 12.25
Depth In: 251 '
Depth Out: 1,974 '
Jets: 5x14

Dan D. on tour

LMY SH: LT GY - GY - BUFF - MOTT, SMTH - CRS, SFT - FRM, BLKY - PLTY, VRY CALC - SM AREN IP- SLTY, SM MOTT SNDY LS SCTT THRU - OCC QTZ - ABNDT PYR THRU - SM MICA

SLTY LS: LT GY - GY - MOTT - TN - BUFF, MD - MICROXLN, VRY SLTY - SM AREN IP - SM SLI ARG - SM PYR SCTT THRU, NO FLUOR - NO VIS CUT/STN

DEVIATION SRVY @ 500', 0.25°

LS; LT GY - GY - MOTT - BUFF - CRM, MD - MICROXLN, VRY AREN - SLI SLTY - SLI ARG, NO FLUOR - NO VIS CUT/STN

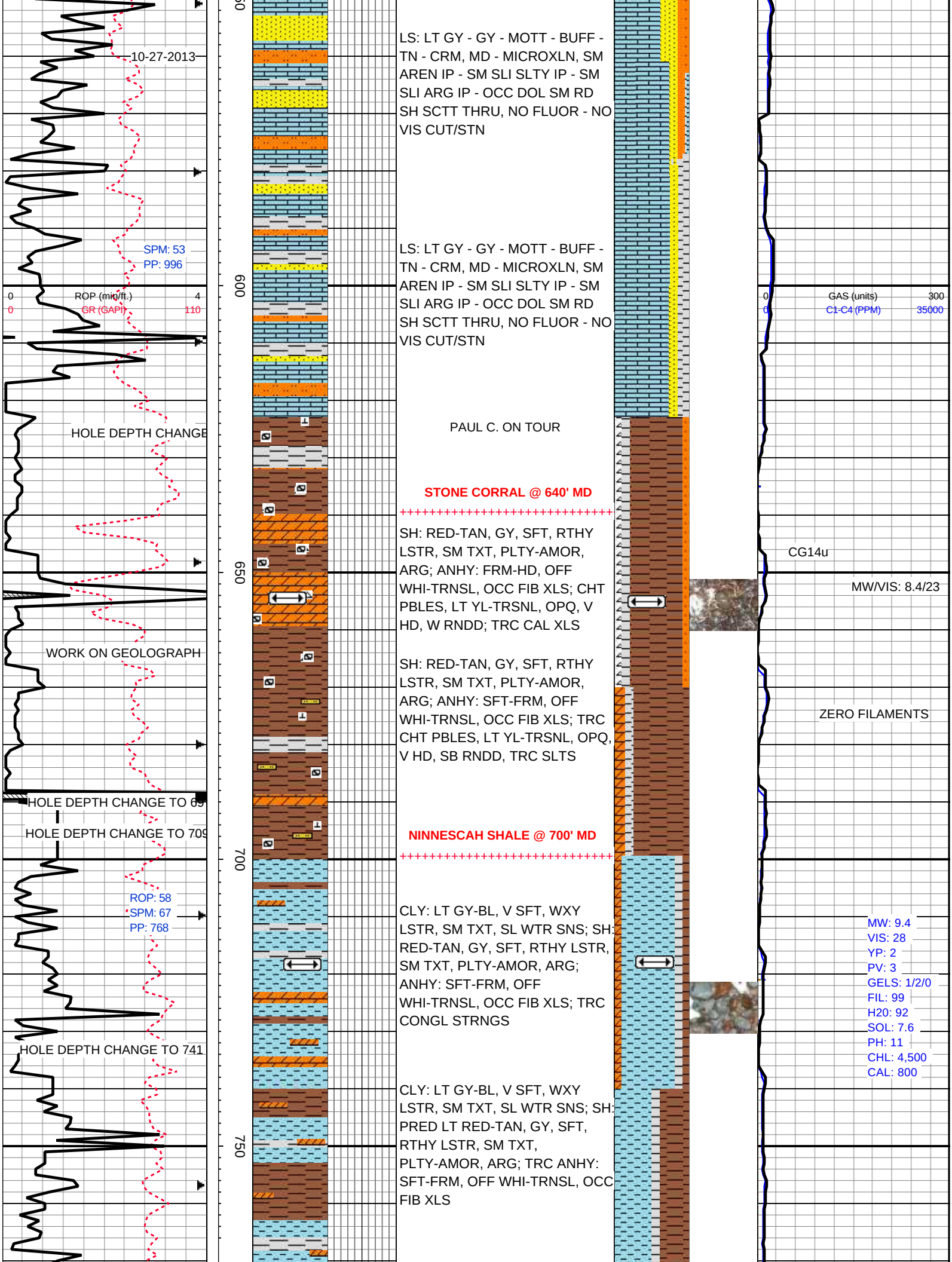
0 GAS (units) 2000

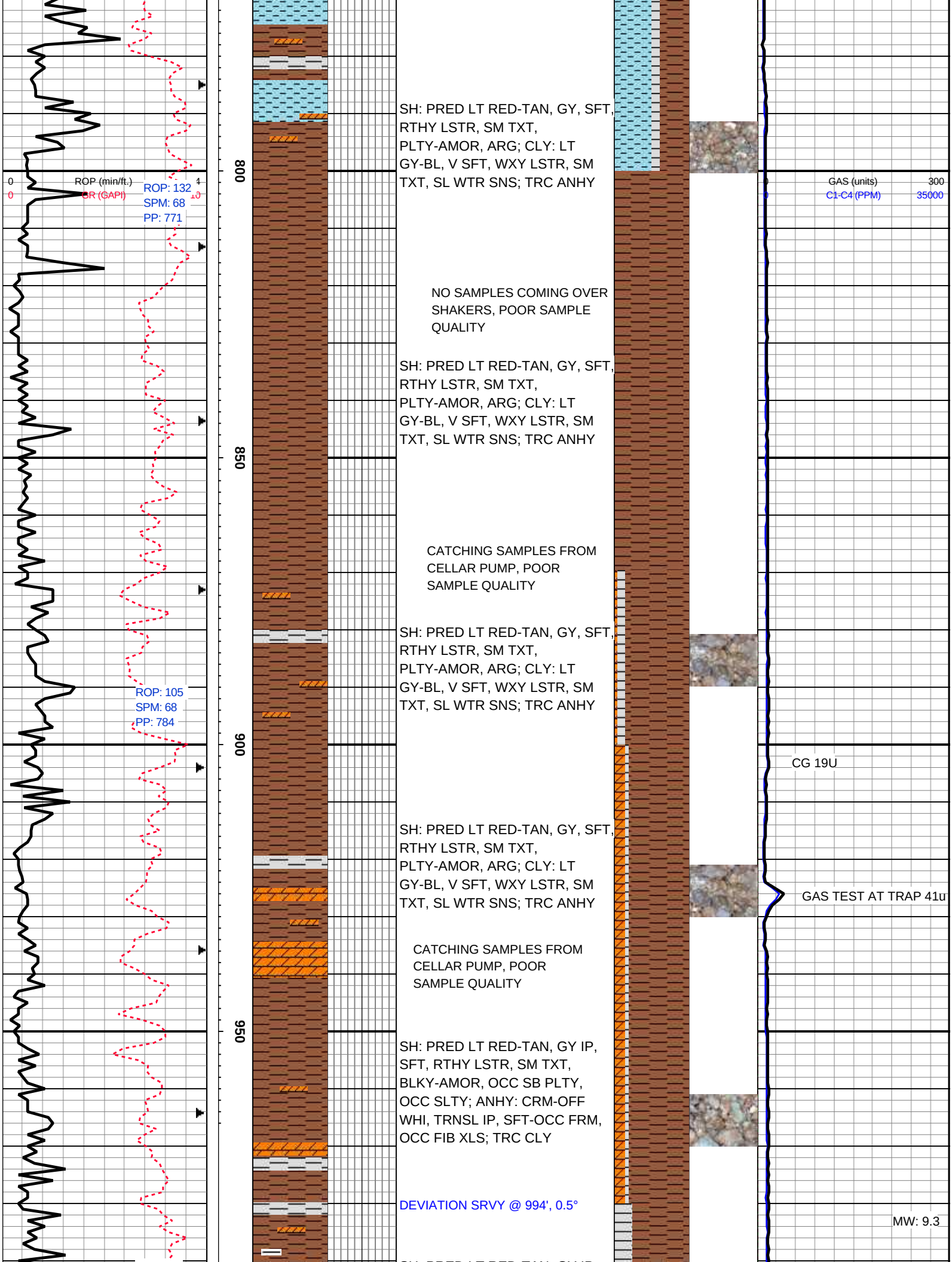
0 GAS (units) 90

0 GAS (units) 3500

NO MUD WEIGHT RECORDED

TG 210u


10-27-2013
SPM: 53
PP: 996
0
ROP (min/ft.)
4
0
GR (GAPI)
110
HOLE DEPTH CHANGE
WORK ON GEOLOGRAPH
HOLE DEPTH CHANGE TO 69
HOLE DEPTH CHANGE TO 709
ROP: 58
SPM: 67
PP: 768
HOLE DEPTH CHANGE TO 741
600
650
700
750
LS: LT GY - GY - MOTT - BUFF - TN - CRM, MD - MICROXLN, SM AREN IP - SM SLI SLTY IP - SM SLI ARG IP - OCC DOL SM RD SH SCTT THRU, NO FLUOR - NO VIS CUT/STN
LS: LT GY - GY - MOTT - BUFF - TN - CRM, MD - MICROXLN, SM AREN IP - SM SLI SLTY IP - SM SLI ARG IP - OCC DOL SM RD SH SCTT THRU, NO FLUOR - NO VIS CUT/STN
PAUL C. ON TOUR
STONE CORRAL @ 640' MD
++++++++++++++++++++++++++++++
SH: RED-TAN, GY, SFT, RTHY LSTR, SM TXT, PLTY-AMOR, ARG; ANHY: FRM-HD, OFF WHI-TRNSL, OCC FIB XLS; CHT PBLES, LT YL-TRSNL, OPQ, V HD, W RNDD; TRC CAL XLS
SH: RED-TAN, GY, SFT, RTHY LSTR, SM TXT, PLTY-AMOR, ARG; ANHY: SFT-FRM, OFF WHI-TRNSL, OCC FIB XLS; TRC CHT PBLES, LT YL-TRSNL, OPQ, V HD, SB RNDD, TRC SLTS
NINNESCAH SHALE @ 700' MD
++++++++++++++++++++++++++++++
CLY: LT GY-BL, V SFT, WXY LSTR, SM TXT, SL WTR SNS; SH: RED-TAN, GY, SFT, RTHY LSTR, SM TXT, PLTY-AMOR, ARG; ANHY: SFT-FRM, OFF WHI-TRNSL, OCC FIB XLS; TRC CONGL STRNGS
CLY: LT GY-BL, V SFT, WXY LSTR, SM TXT, SL WTR SNS; SH: PRED LT RED-TAN, GY, SFT, RTHY LSTR, SM TXT, PLTY-AMOR, ARG; TRC ANHY: SFT-FRM, OFF WHI-TRNSL, OCC FIB XLS
0
GAS (units)
300
0
C1-C4 (PPM)
35000
CG14u
MW/VIS: 8.4/23
ZERO FILAMENTS
MW: 9.4
VIS: 28
YP: 2
PV: 3
GELS: 1/2/0
FIL: 99
H20: 92
SOL: 7.6
PH: 11
CHL: 4,500
CAL: 800


0
ROP (min/ft.)
4
0
GR (GAPI)
150
ROP: 132
SPM: 68
PP: 771
ROP: 105
SPM: 68
PP: 784
800
850
900
950
SH: PRED LT RED-TAN, GY, SFT, RTHY LSTR, SM TXT, PLTY-AMOR, ARG; CLY: LT GY-BL, V SFT, WXY LSTR, SM TXT, SL WTR SNS; TRC ANHY
NO SAMPLES COMING OVER SHAKERS, POOR SAMPLE QUALITY
SH: PRED LT RED-TAN, GY, SFT, RTHY LSTR, SM TXT, PLTY-AMOR, ARG; CLY: LT GY-BL, V SFT, WXY LSTR, SM TXT, SL WTR SNS; TRC ANHY
CATCHING SAMPLES FROM CELLAR PUMP, POOR SAMPLE QUALITY
SH: PRED LT RED-TAN, GY, SFT, RTHY LSTR, SM TXT, PLTY-AMOR, ARG; CLY: LT GY-BL, V SFT, WXY LSTR, SM TXT, SL WTR SNS; TRC ANHY
SH: PRED LT RED-TAN, GY, SFT, RTHY LSTR, SM TXT, PLTY-AMOR, ARG; CLY: LT GY-BL, V SFT, WXY LSTR, SM TXT, SL WTR SNS; TRC ANHY
CATCHING SAMPLES FROM CELLAR PUMP, POOR SAMPLE QUALITY
SH: PRED LT RED-TAN, GY IP, SFT, RTHY LSTR, SM TXT, BLKY-AMOR, OCC SB PLTY, OCC SLTY; ANHY: CRM-OFF WHI, TRNSL IP, SFT-OCC FRM, OCC FIB XLS; TRC CLY
DEVIATION SRVY @ 994', 0.5°
0
GAS (units)
300
0
C1-C4 (PPM)
35000
CG 19U
GAS TEST AT TRAP 41u
MW: 9.3

ROP: 87
SPM: 68
PP: 1,007

0 ROP (min/ft.) 4
0 GR (GAPI) 110

HOLE DEPTH CHANGED 1057

ROP: 97
SPM: 67
PP: 1,006

HOLE DEPTH CHANGED 1152'

0 ROP (min/ft.) 4
0 GR (GAPI) 110

ROP: 91.2

1,000

1,050

1,100

1,150

1,200

SH: PRED LT RED-TAN, GY IP, SFT, RTHY LSTR, SM TXT, BLKY-AMOR, OCC SB PLTY, OCC SLTY; ANHY: CRM-OFF WHI, TRNSL IP, SFT-OCC FRM, OCC FIB XLS; TRC CLY

WELLINGTON SH @ 1024' MD

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SH: PRED GY-DRK GY, OCC RD & LT GY-CRM, SL WXY-RTHY LSTR, PRES SM TXT, OCC SLTY, CALC; ANHY: CRM-OFF WHI, TRNSL IP, SFT-OCC FRM, CR SLN; TRC CLY; TRC LS

SH: PRED GY-DRK GY, OCC RD & LT GY-CRM, SL WXY-RTHY LSTR, PRES SM TXT, OCC SLTY, CALC; LS: LT GY-GY, SFT, CR XLN; ANHY: CRM-OFF WHI, TRNSL IP, SFT-OCC FRM, CR SLN; TRC CLY

SH: PRED GY-DRK GY, OCC RD & LT GY-CRM, SL WXY-RTHY LSTR, PRES SM TXT, OCC SLTY, CALC; LS: LT GY-GY, SFT, CR XLN; ANHY: CRM-OFF WHI, TRNSL IP, SFT-OCC FRM, CR SLN; TRC CLY

Dan D. on Tour

SH: LT GY- GY, OCC RD - CRM, WXY, SLTY, SM CALC/LMY IP - OCC AREN - TRC DOL - W/ LT GY - CRM LS SCTT THRU, NO FLUOR

HUTCHINSON SALT @ 1195' MD

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SALTY SH; LT GY - GY - CRM -

0 GAS (units) 300
0 C1-C4 (PPM) 35000

0 GAS (units) 300
0 C1-C4 (PPM) 35000

SPM: 66
PP: 1,033

OFF WH - WH, SMTH - CRS, SFT - FRM, BLKY - PLTY - FLKY, SALTY IP - SILTY IP - W/ THIN INTBD HAL THRU - DOL SCTT THRU

SALTY SH; LT GY - GY - CRM - OFF WH - WH, SMTH - CRS, SFT - FRM, BLKY - PLTY - FLKY, LESS SALTY - MRE SILTY - W/ THIN INTBD HAL THRU - DOL SCTT THRU

1,250

MW: 9.3
VIS: 29

SALTY SH; LT GY - GY - CRM - OFF WH - WH, SMTH - CRS, SFT - FRM, BLKY - PLTY - FLKY, SALTY IP - SILTY IP - W/ THIN INTBD HAL THRU - DOL SCTT THRU

ROP: 95.7
SPM: 62
PP: 1,293

1,300

SALTY SH; LT GY - GY - CRM - OFF WH - WH, SMTH - CRS, SFT - FRM, BLKY - PLTY - FLKY, SALTY IP - SILTY IP - W/ THIN INTBD HAL THRU - DOL SCTT THRU

HOLE DEPTH CHANGED 1373'

1,350

SALTY SH; LT GY - GY - RD - CRM - OFF WH - WH, SMTH - CRS, SFT - FRM, BLKY - PLTY - FLKY, SALTY IP - SILTY IP - W/ THIN INTBD HAL THRU - DOL SCTT THRU

10-28-2013

1,400

0 ROP (min/ft.) 4
0 GR (GAPI) 110

0 GAS (units) 300
0 C1-C4 (PPM) 35000

ROP: 72
SPM: 66
PP: 1,074

SALTY SH; LT GY - GY - RD - CRM - OFF WH - WH, SMTH - CRS, SFT - FRM, BLKY - PLTY -

FLKY, SALTY IP - SILTY IP - W/ THIN INTBD HAL THRU - DOL SCTT THRU

1,450

SALTY SH; LT GY - GY - RD - CRM - OFF WH - WH, SMTH - CRS, SFT - FRM, BLKY - PLTY - FLKY, SALTY IP - SILTY IP - W/ THIN INTBD HAL THRU - DOL SCTT THRU

MW: 9.3
VIS: 28

Ran 30 bbl sweep

ROP: 41
SPM: 66
PP: 1,105

1,500

Paul C. on

HOLE DEPTH CHANGED 1405'

DEVIATION SRVY @ 1500', 0.25°

SH: LT GY-GY, RED, SB BLKU-SB PLTY, AMOR, OCC FIS, PRED SFT-OCC FRM, WXY LSTR, OCC RTHY LSTR, SM TXT, OCC INTG W/ ANHY; SALT: CRM-OFF WHT & TRNSL, PRED SFT, RGH TXT; ANHY: OFF WHI-LT GY, FRM-OCC HD, SM TXT, OCC FIB XLS.

1,550

MW: 9.6

HOLE DEPTH CHANGED 1595'

SH: LT GY-GY, RED, SB BLKY-SB PLTY, AMOR, OCC FIS, PRED SFT-OCC FRM, WXY LSTR, OCC RTHY LSTR, SM TXT, OCC INTG W/ ANHY; SALT: CRM-OFF WHT & TRNSL, PRED SFT, RGH TXT; ANHY: OFF WHI-LT GY, FRM-OCC HD, SM TXT, OCC FIB XLS.

ROP: 114
SPM: 65
PP: 1,035

1,600

0 ROP (min/ft.) 4
0 GR (GAPI) 110

0 GAS (units) 300
0 C1-C4 (PPM) 35000

HOLE DEPTH CHANGED 1627'

SH: LT GY-GY, RED, SB BLKU-SB PLTY, AMOR IP, OCC FIS, PRED SFT-OCC FRM, WXY LSTR, OCC RTHY LSTR, SM TXT, OCC INTG W/ ANHY; SALT: CRM-OFF WHT & TRNSL, PRED SFT, CR XLN; ANHY: OFF WHI-LT GY, FRM-OCC HD, SL RGH TXT, OCC FIB XLS.

MW: 9.6
VIS: 28
YP: 2
PV: 3
GELS: 1/2/0
FIL: 99
H20: 91.6
SOL: 1.9
PH: 8.5
CHL: 115,000
CAL: 2,440

1,6

ROP: 76
SPM: 66
PP: 1,106

ROP: 55
SPM: 65
PP: 1,133

0 ROP (min/ft.)
0 GR (GAPI) 110

10-29-2013

1,700

1,750

1,800

1,850

SH: LT GY-GY, RED IP, SFT-FRM, OCC HD, SL WXY-RTHY LSTR, SL RGH TXT, OCC SL SLTY; SALT: PRES TRNSP-OFF WHI, SFT, BRIT, CR XLN-SUC, OCC INTG W/ SH.

SH: LT GY-GY, RED IP, SFT-FRM, OCC HD, SL WXY-RTHY LSTR, SL RGH TXT, OCC SL SLTY; SALT: PRES TRNSP-OFF WHI, SFT, BRIT, CR XLN-SUC, OCC INTG W/ SH.

LOWER WELLINGTON @ 1707' MD

Dan D.

ANHYD: OFF WH - WH - FRSTD - OPQ - TN -CLR/TRNSL, SM LT GY SH THRU - OCC RD SH - ABNDT DOL THRU - OCC PP PYR - OCC SLTSTN

MW: 9.6

ANHYD: OFF WH - WH - FRSTD - OPQ - TN -CLR/TRNSL, SM LT GY SH THRU - OCC RD SH - ABNDT DOL THRU - OCC PP PYR - OCC SLTSTN

ANHYD: OFF WH - WH - FRSTD - OPQ - TN -CLR/TRNSL, SM LT GY SH THRU - OCC RD SH - ABNDT DOL THRU - OCC PP PYR - OCC SLTSTN - INCRS RD SH

SHLY ANHYD: OFF WH - WH - FRSTD - OPQ - TN -CLR/TRNSL,

MW: 9.6

0 GAS (units) 300
0 C1-C4 (PPM) 35000

ROP: 45
SPM: 65
PP: 1,126

ROP: 102
SPM: 65
PP: 1,114

10-30-2013

10-31-2013

HOLE DEPTH CHANGE TO 193

0 ROP (min/ft.) 4
0 GR (GAPI) 110

1,900

1,950

2,000

2,050

FRSTD - OPQ - TN -CLR/TRNSL, LT GY SH THRU - OCC RD SH - ABNDT DOL THRU - OCC SLTSTN

CHASE GROUP @ 1,890' MD

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SH: LT GY - GY - RD - TNSH, SMTH - RGH, SFT - FRM, PLTY - FLKY - BLKY, SLTY - SLI AREN - SLI CALC - OCC GY/TNSH CHRT - ABNDT DOL - OCC ANHY - OCC WH/OFF WH CHRT/SIL NODULES

SH: LT GY - GY - RD - TNSH, SMTH - RGH, SFT - FRM, PLTY - FLKY - BLKY, SLTY - SLI AREN - SLI CALC - OCC GY/TNSH CHRT - ABNDT DOL - OCC ANHY

15 Stand Short Trip
Run 50 bbl Sweep

Strap out of hole for logs (1,974' MD)

Bit #: 3
Type: SMITH D54
Size: 8.75
Depth In: 1,974 '
Hours: 7 *hrs*
Jets: 5X14s
S/N: M51516MSPX

P CAMPBELL ON

CEMENT

DEVIATION SRVY @ 2000', 0.5°

SS: OFF WHT-TRNSL, OCC CRM, VFG, BRIT-FRM, SB SNG-ANG, MOD SRTD P CMNT, SL CALC (VERY FINE CUTTINGS); LS: CRM-OFF WHT & MOT, SFT-FRM, CR XLN, NO VIS POR; SH: LT GY-GRN, DLL RTHY LSTR, BLKY, SM TXT, AMOR; 30% DLL YL FLUOR, NSOC

LS: CRM-OFF WHT, GY-LT GY & MOT IP, FRM-OCC HD, MC XLN, PRED SUC, SL RGH TXT; TRC GY SH

LS: CRM-OFF WHT, GY-LT GY &

MW: 9.6
VIS: 30

Run 40 bbl Sweep

MW: 8.5
VIS: 28
YP: 3
PV: 2
GELS: 1/2/0
FIL: 99
H20: 98.5
SOL: 1.2
PH: 8.5
CHL: 1,800
CAL: 200

0 GAS (units) 300
0 C1-C4 (PPM) 35000

BG 17u

CG 43u

BG 34u

BG 34u

DTG 30u

MOT IP, FRM-OCC HD, MC XLN, PRED SUC, SL RGH TXT; TRC GY SH

2,100

LS: CRM-OFF WHT, GY-LT GY & MOT IP, FRM-OCC HD, MC XLN, PRED SUC, SL RGH TXT; TRC DOL AND UNCONS SS; SL LT YL FLUOR, NSOC

CG 45u

LS: CRM-OFF WHT, GY-LT GY & MOT IP, FRM-OCC HD, MC XLN, PRED SUC, SL RGH TXT; CHT: OFF WHT-CRM, TRNSL, OCC W/ DRK INCL, FRM-HD, PRED TRIP; TRC POR

FG 45u

2,150

WORKING ON PASON, MULTIPLE DEPTH CORRECTIONS

LS: CRM-OFF WHT, GY-LT GY & MOT IP, FRM-OCC HD, MC XLN, PRED SUC, SL RGH TXT; CHT: OFF WHT-CRM, TRNSL, OCC W/ DRK INCL, FRM-HD, PRED TRIP; TRC POR; 70% LT YL FLUOR, NSOC

WOB: 14.3
ROP: 171
SPM: 67
PP: 882

CG 28u

FM GAS 29u

2,200

0 ROP (min/ft.) 4
0 GR (GAPI) 110

0 GAS (units) 300
C1-C4 (PPM) 35000

PAUL C. OFF

LS: CRM-OFF WHT, GY-LT GY & MOT IP, FRM-OCC HD, MC XLN, PRED SUC, SL RGH TXT; CHT: OFF WHT-CRM, TRNSL, OCC W/ DRK INCL, FRM-HD, PRED TRIP; TRC POR; 70% LT YL FLUOR, NSOC

HOLE DEPTH CHANGED TO 225(

2,250

LS: CRM-OFF WHT, GY-LT GY & MOT IP, MOD FRM-FRM, MCXLN-V/F XLN, CHNKY-OCC PLTY, OCC FREE CAL, OCC LAM/IMBD CHT, TR LT BRN SPOT STAIN, TR PP POR, 60% PALE YEL FLUOR, NSOC

FM GAS 27u

WOB: 16.9
ROP: 17.5
SPM: 67
PP: 897

2,300

LS: CRM-OFF WHT, GY-LT GY & MOT IP, MOD FRM-FRM, MCXLN-V/F XLN, CHNKY-OCC PLTY, OCC FREE CAL, TR LT

BRN SPOT STAIN, TR PP POR,
60% PALE YEL FLUOR, NSOC

LS: CRM-OFF WHT, GY-LT GY &
MOT IP, MOD FRM-FRM,
MCXLN-V/F XLN, CHNKY-OCC
PLTY, OCC FREE CAL, TR LT
BRN SPOT STAIN, TR PP POR,
60% PALE YEL FLUOR, NSOC

LS: CRM-OFF WHT, GY-LT GY &
MOT IP, MOD FRM-FRM,
MCXLN-V/F XLN, CHNKY-OCC
PLTY, OCC FREE CAL, TR LT
BRN SPOT STAIN, TR PP POR,
60% PALE YEL FLUOR, NSOC

LS: CRM-OFF WHT, GY-LT GY,
OCC WHT, MOD FRM-FRM,
MCXLN-V/F XLN, CHNKY-OCC
PLTY, OCC FREE CAL, TR LT
BRN SPOT STAIN, TR PP POR,
40% PALE YEL FLUOR, NSOC

BYPASS SHAKERS

BYPASS SHAKERS

BYPASS SHAKERS

2,350

2,400

2,450

2,500

CG 15u

FM GAS 27u

CON GAS 21u

MW: 8.7
VIS: 90
YP: 19
PV: 23
GELS: 10/23
FIL: 8
H20: 97
SOL: 2.7
PH: 10.5
CHL: 1,800
CAL: 40

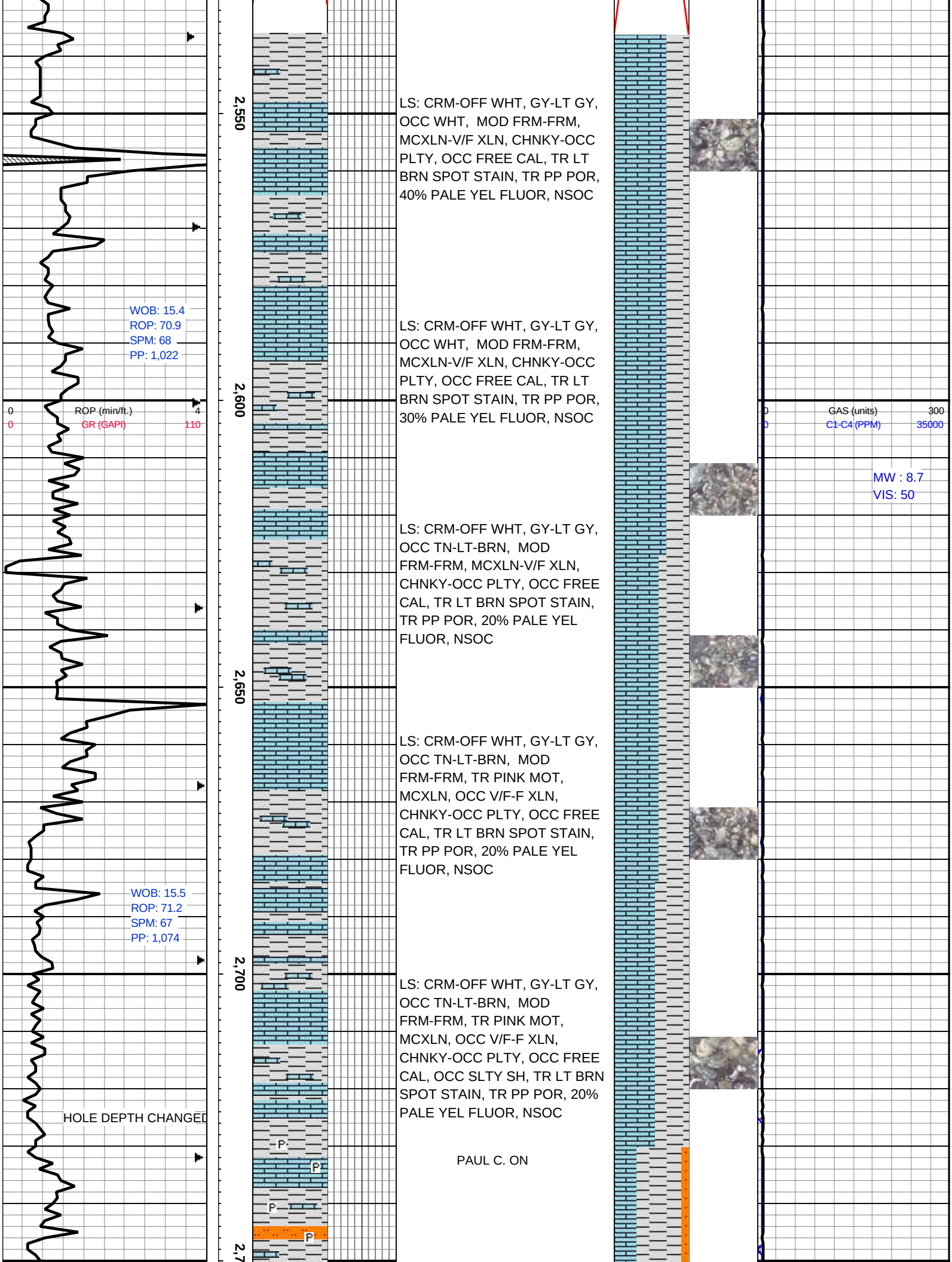
WOB: 16.4
ROP: 86.2
SPM: 67
PP: 925

WOB: 15.4
ROP: 112.6
SPM: 68
PP: 1,004

0 ROP (min/ft.) 4
0 GR (GAPI) 110

0 GAS (units) 300
0 C1-C4 (PPM) 35000

11/02/2013


0
ROP (min/ft.)
4
0
GR (GAPI)
110
WOB: 15.4
ROP: 70.9
SPM: 68
PP: 1,022
WOB: 15.5
ROP: 71.2
SPM: 67
PP: 1,074
HOLE DEPTH CHANGED
2,550
2,600
2,650
2,700
LS: CRM-OFF WHT, GY-LT GY, OCC WHT, MOD FRM-FRM, MCXLN-V/F XLN, CHNKY-OCC PLTY, OCC FREE CAL, TR LT BRN SPOT STAIN, TR PP POR, 40% PALE YEL FLUOR, NSOC
LS: CRM-OFF WHT, GY-LT GY, OCC WHT, MOD FRM-FRM, MCXLN-V/F XLN, CHNKY-OCC PLTY, OCC FREE CAL, TR LT BRN SPOT STAIN, TR PP POR, 30% PALE YEL FLUOR, NSOC
LS: CRM-OFF WHT, GY-LT GY, OCC TN-LT-BRN, MOD FRM-FRM, MCXLN-V/F XLN, CHNKY-OCC PLTY, OCC FREE CAL, TR LT BRN SPOT STAIN, TR PP POR, 20% PALE YEL FLUOR, NSOC
LS: CRM-OFF WHT, GY-LT GY, OCC TN-LT-BRN, MOD FRM-FRM, TR PINK MOT, MCXLN, OCC V/F-F XLN, CHNKY-OCC PLTY, OCC FREE CAL, TR LT BRN SPOT STAIN, TR PP POR, 20% PALE YEL FLUOR, NSOC
LS: CRM-OFF WHT, GY-LT GY, OCC TN-LT-BRN, MOD FRM-FRM, TR PINK MOT, MCXLN, OCC V/F-F XLN, CHNKY-OCC PLTY, OCC FREE CAL, OCC SLTY SH, TR LT BRN SPOT STAIN, TR PP POR, 20% PALE YEL FLUOR, NSOC
P
P
P
P
PAUL C. ON
0
GAS (units)
300
0
C1-C4 (PPM)
35000
MW : 8.7
VIS: 50

HOLE DEPTH CHANGED

WOB: 14.3
ROP: 178
SPM: 69
PP: 941

0 ROP (min/ft.) 4
0 GR (GAPI) 110

HOLE DEPTH CHANGED

WOB: 16.2
ROP: 229
SPM: 65
PP: 1,134

2,800
2,850
2,900
2,950

SH: LT GY-GY, OCC DRK GY, FRM, SB BLKY-SB PLTY, AMOR IP, RTHY-SL METALIC LSTR, PRED RGH TXT, SLTY; LS: CRM-LT TAN, OFFF WHI IP, OCC MOT, CR XLN, FRM-HD, SM TXT; SLTST: LT GY, SFT-RFM, AGR, INTG W/ SH; ABNDT FREE & INTRBD PYR

SH: LT GY-GY, OCC DRK GY, FRM, SB BLKY-SB PLTY, AMOR IP, RTHY-SL METALIC LSTR, PRED RGH TXT, SLTY; LS: CRM-LT TAN, OFFF WHI IP, OCC MOT, CR XLN, FRM-HD, SM TXT; SLTST: LT GY, SFT-RFM, AGR, INTG W/ SH

SH: LT GY-GY, OCC DRK GY, FRM, SB BLKY-SB PLTY, AMOR IP, RTHY-SL METALIC LSTR, PRED RGH TXT, SLTY; LS: CRM-LT TAN, OFFF WHI IP, OCC MOT, CR XLN, FRM-HD, SM TXT

SH: LT GY-GY, OCC DRK GY, FRM, SB BLKY-SB PLTY, AMOR IP, RTHY-SL METALIC LSTR, PRED RGH TXT, SLTY; LS: CRM-LT TAN, OFFF WHI IP, OCC MOT, CR XLN, FRM-HD, SM TXT; 50% LT GLD FLUOR, NSOC

SH: LT GY-GY, OCC DRK GY, FRM, SB BLKY-SB PLTY, AMOR IP, RTHY-SL METALIC LSTR, PRED RGH TXT, SLTY; LS: CRM-LT TAN, OFFF WHI IP, OCC MOT, CR XLN, FRM-HD, SM TXT; 50% LT GLD FLUOR, NSOC

LS: CRM-LT TAN, OFFF WHI IP, OCC MOT, CR XLN, FRM-HD, SM

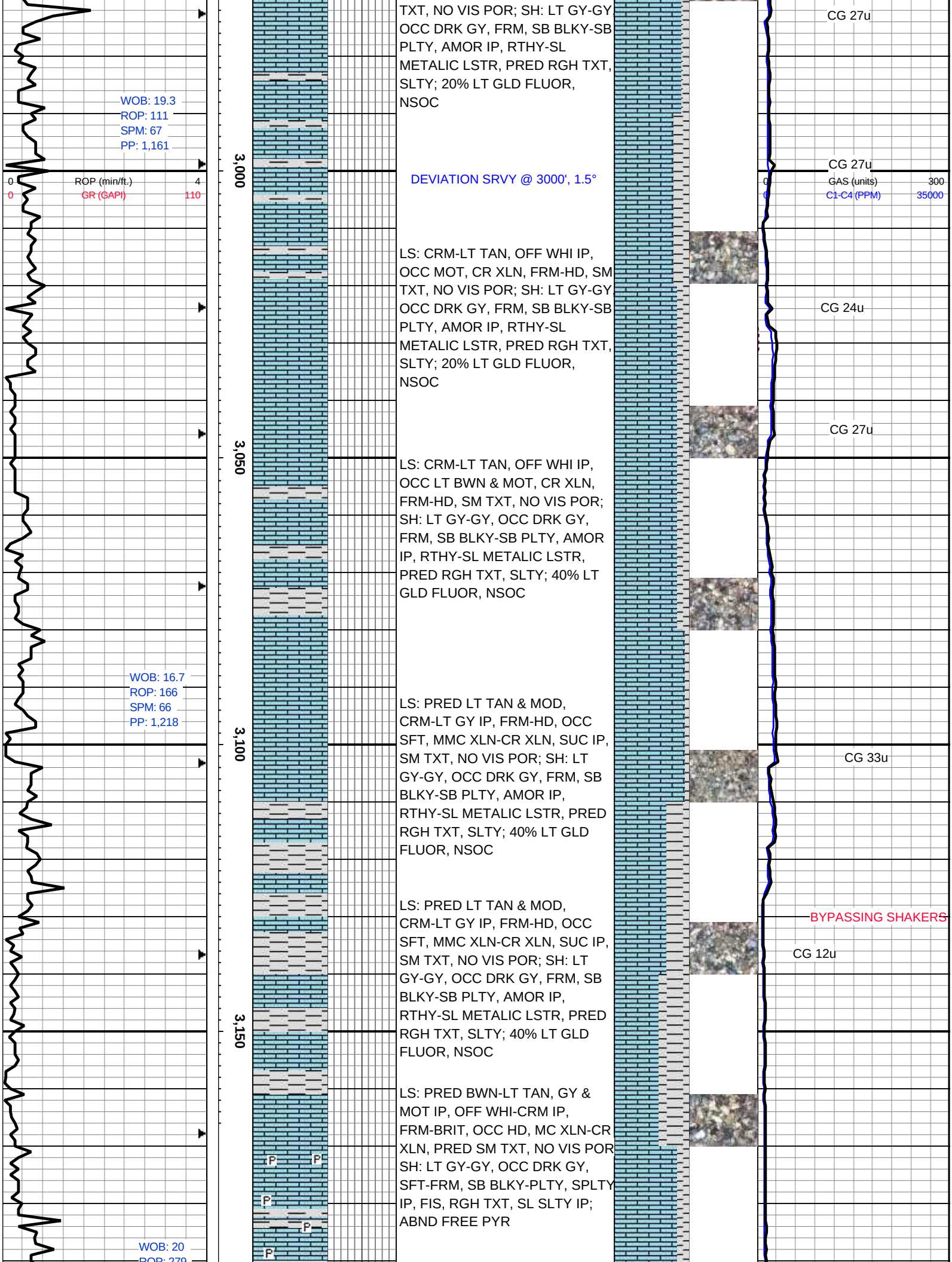
0 GAS (units) 300
0 C1-C4 (PPM) 35000

CG 10u

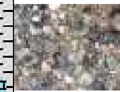
STOPPED BYPASSING SHAKERS

CG 15u

CG 22u


WOB: 19.3
ROP: 111
SPM: 67
PP: 1,161
0
ROP (min/ft.)
4
0
GR (GAPI)
110
3,000
TXT, NO VIS POR; SH: LT GY-GY OCC DRK GY, FRM, SB BLKY-SB PLTY, AMOR IP, RTHY-SL METALIC LSTR, PRED RGH TXT, SLTY; 20% LT GLD FLUOR, NSOC
CG 27u
DEVIATION SRVY @ 3000', 1.5°
CG 27u
0
GAS (units)
300
0
C1-C4 (PPM)
35000
LS: CRM-LT TAN, OFF WHI IP, OCC MOT, CR XLN, FRM-HD, SM TXT, NO VIS POR; SH: LT GY-GY OCC DRK GY, FRM, SB BLKY-SB PLTY, AMOR IP, RTHY-SL METALIC LSTR, PRED RGH TXT, SLTY; 20% LT GLD FLUOR, NSOC
CG 24u
CG 27u
3,050
LS: CRM-LT TAN, OFF WHI IP, OCC LT BWN & MOT, CR XLN, FRM-HD, SM TXT, NO VIS POR; SH: LT GY-GY, OCC DRK GY, FRM, SB BLKY-SB PLTY, AMOR IP, RTHY-SL METALIC LSTR, PRED RGH TXT, SLTY; 40% LT GLD FLUOR, NSOC
WOB: 16.7
ROP: 166
SPM: 66
PP: 1,218
LS: PRED LT TAN & MOD, CRM-LT GY IP, FRM-HD, OCC SFT, MMC XLN-CR XLN, SUC IP, SM TXT, NO VIS POR; SH: LT GY-GY, OCC DRK GY, FRM, SB BLKY-SB PLTY, AMOR IP, RTHY-SL METALIC LSTR, PRED RGH TXT, SLTY; 40% LT GLD FLUOR, NSOC
CG 33u
3,100
LS: PRED LT TAN & MOD, CRM-LT GY IP, FRM-HD, OCC SFT, MMC XLN-CR XLN, SUC IP, SM TXT, NO VIS POR; SH: LT GY-GY, OCC DRK GY, FRM, SB BLKY-SB PLTY, AMOR IP, RTHY-SL METALIC LSTR, PRED RGH TXT, SLTY; 40% LT GLD FLUOR, NSOC
BYPASSING SHAKERS
CG 12u
3,150
LS: PRED BWN-LT TAN, GY & MOT IP, OFF WHI-CRM IP, FRM-BRIT, OCC HD, MC XLN-CR XLN, PRED SM TXT, NO VIS POR SH: LT GY-GY, OCC DRK GY, SFT-FRM, SB BLKY-PLTY, SPLTY IP, FIS, RGH TXT, SL SLTY IP; ABND FREE PYR
P
P
P
P
P
WOB: 20

ROP: 279
SPM: 67
PP: 1,243



FG 31u

TOPEKA LS @ 3203' MD

3,200

0 ROP (min/ft.) 4	GAS (units) 300
0 GR (GAPI) 110	C1-C4 (PPM) 35000

LS: PRED CRM-LT TAN, GY & MOT IP, OFF WHI-CRM IP, FRM-BRIT, OCC HD, MC XLN-CR XLN, PRED SM TXT, NO VIS POR TRC SH; 60% WK DLL YL FLUOR, NSOC

DONE BYPASSING SHAKERS

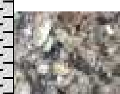
3,250

BG 47u

LS: PRED CRM-LT TAN, GY & MOT IP, OFF WHI-CRM IP, FRM-BRIT, OCC HD, MC XLN-CR XLN, PRED SM TXT, NO VIS POR TRC SH; 60% WK DLL YL FLUOR, NSOC

CG 47u

DTG 35u



CG 26u

3,300

WOB: 16
ROP: 93
SPM: 67
PP: 1,251

LS: PRED CRM-LT TAN, GY & MOT IP, OFF WHI-CRM IP, FRM-BRIT, OCC HD, MC XLN-CR XLN, PRED SM TXT, NO VIS POR TRC SH; 60% WK DLL YL FLUOR, NSOC

CG 24u

MW: 9.4
VIS: 60
YP: 20
PV: 14
GELS: 6/21/0
FIL: 7.8
H20: 92
SOL: 7.7
PH: 10.5
CHL: 2,000
CAL: 40

3,350

LS: PRED CRM-LT TAN, GY & MOT IP, OFF WHI-CRM IP, BRIT-CC HD, MC XLN-CR XLN, PRED SM TXT, NO VIS POR; TRC SH; 30% WK DLL YL FLUOR, NSOC

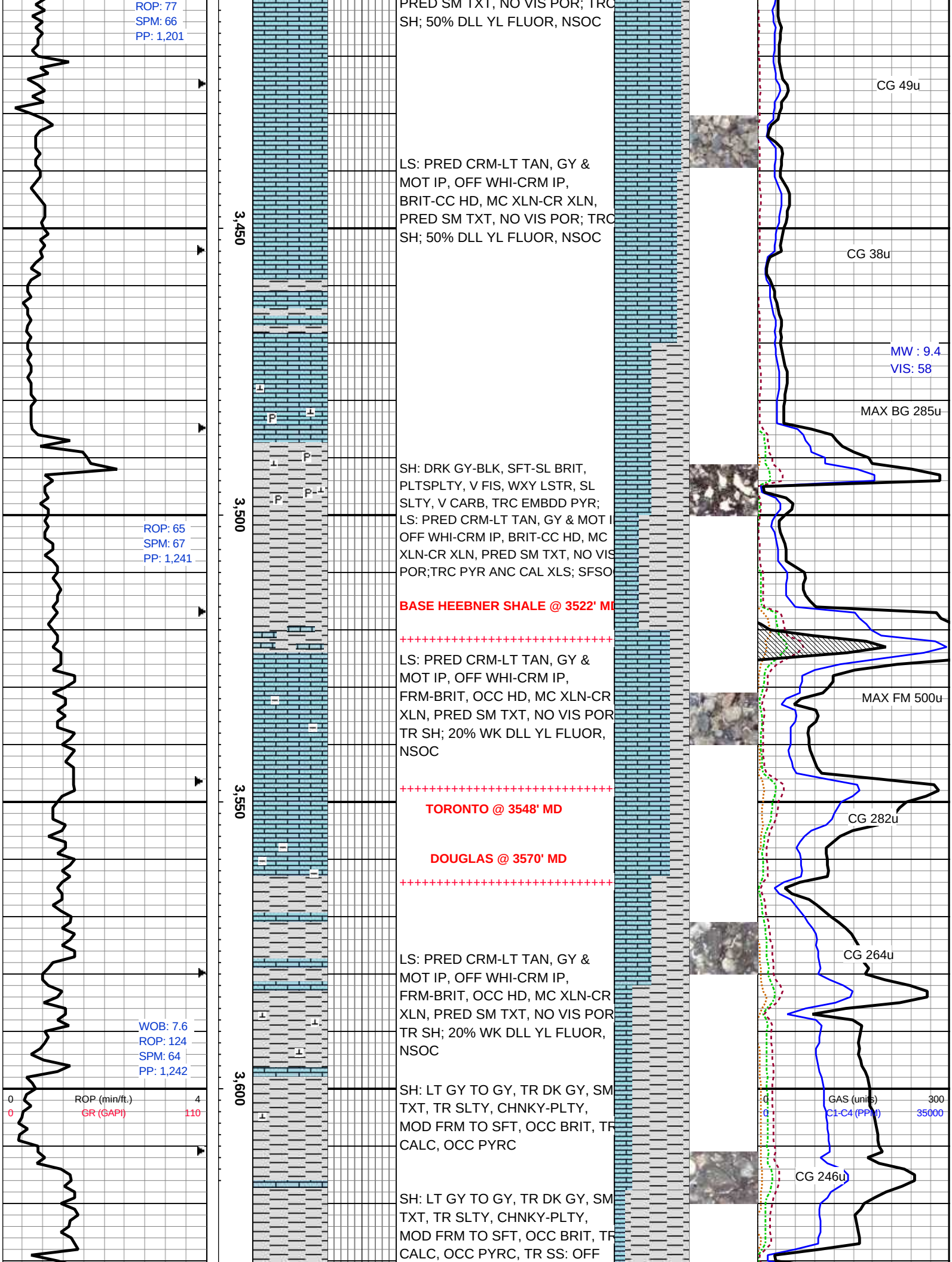
CG 53u

3,400

0 ROP (min/ft.) 4	0 GAS (units) 300
0 GR (GAPI) 110	0 C1-C4 (PPM) 35000

WOB: 11.1

LS: PRED CRM-LT TAN, GY & MOT IP, OFF WHI-CRM IP, BRIT-CC HD, MC XLN-CR XLN, PRED SM TXT, NO VIS POR; TRC


ROP: 77
SPM: 66
PP: 1,201
ROP: 65
SPM: 67
PP: 1,241
WOB: 7.6
ROP: 124
SPM: 64
PP: 1,242
0
ROP (min/ft.)
4
0
GR (GAPI)
110
3,450
3,500
3,550
3,600
PRED SM TXT, NO VIS POR; TRC SH; 50% DLL YL FLUOR, NSOC
LS: PRED CRM-LT TAN, GY & MOT IP, OFF WHI-CRM IP, BRIT-CC HD, MC XLN-CR XLN, PRED SM TXT, NO VIS POR; TRC SH; 50% DLL YL FLUOR, NSOC
SH: DRK GY-BLK, SFT-SL BRIT, PLTSPLTY, V FIS, WXY LSTR, SL SLTY, V CARB, TRC EMBDD PYR;
LS: PRED CRM-LT TAN, GY & MOT I
OFF WHI-CRM IP, BRIT-CC HD, MC XLN-CR XLN, PRED SM TXT, NO VIS POR;TRC PYR ANC CAL XLS; SFSO
BASE HEEBNER SHALE @ 3522' MD
++++++++++++++++++++++++++++++
LS: PRED CRM-LT TAN, GY & MOT IP, OFF WHI-CRM IP, FRM-BRIT, OCC HD, MC XLN-CR XLN, PRED SM TXT, NO VIS POR TR SH; 20% WK DLL YL FLUOR, NSOC
++++++++++++++++++++++++++++++
TORONTO @ 3548' MD
DOUGLAS @ 3570' MD
++++++++++++++++++++++++++++++
LS: PRED CRM-LT TAN, GY & MOT IP, OFF WHI-CRM IP, FRM-BRIT, OCC HD, MC XLN-CR XLN, PRED SM TXT, NO VIS POR TR SH; 20% WK DLL YL FLUOR, NSOC
SH: LT GY TO GY, TR DK GY, SM TXT, TR SLTY, CHNKY-PLTY, MOD FRM TO SFT, OCC BRIT, TR CALC, OCC PYRC
SH: LT GY TO GY, TR DK GY, SM TXT, TR SLTY, CHNKY-PLTY, MOD FRM TO SFT, OCC BRIT, TR CALC, OCC PYRC, TR SS: OFF
CG 49u
CG 38u
MW : 9.4
VIS: 58
MAX BG 285u
MAX FM 500u
CG 282u
CG 264u
CG 246u
0
GAS (units)
300
0
C1-C4 (PPM)
35000

WHT TO OP, V/F-F GR, MOD W SRT, W CONS, NO VIS FLOR

SH: LT GY TO GY, TR DK GY, SM TXT, TR SLTY, CHNKY-PLTY, MOD FRM TO SFT, OCC BRIT, TR CALC, OCC PYRC, TR SS: OFF WHT TO OP, V/F-F GR, MOD W SRT, W CONS, NO VIS FLOR

ROP: 82
SPM: 66
PP: 1,258

SH: LT GY TO GY, TR DK GY, SM TXT, TR SLTY, CHNKY-PLTY, MOD FRM TO SFT, OCC BRIT, TR CALC, OCC PYRC

CG 162u

LANSING @ 3728' MD

LS: PRED CRM-LT TAN, GY & MOT IP, OFF WHI-CRM IP, FRM-BRIT, OCC HD, V/F-F XLN, PRED SM TXT, OCC ARG CMT, TR PP TO OCC VUGLR POR, WK PAL YEL-YEL FLOR, NO VIS CUT

11/03/2013

CON GAS 95u

LS: PRED CRM-LT TAN, LT BRN & MOT IP, OFF WHI-CRM IP, FRM-BRIT, OCC HD, V/F-F XLN, OCC MIC XLN, OCC ARG CMT, TR FREE CAL TR PP TO OCC VUGLR POR, NO VIS FLOR, NO VIS CUT

WOB: 16.5
ROP: 33
SPM: 6,664
PP: 1,178

CON GAS 160u

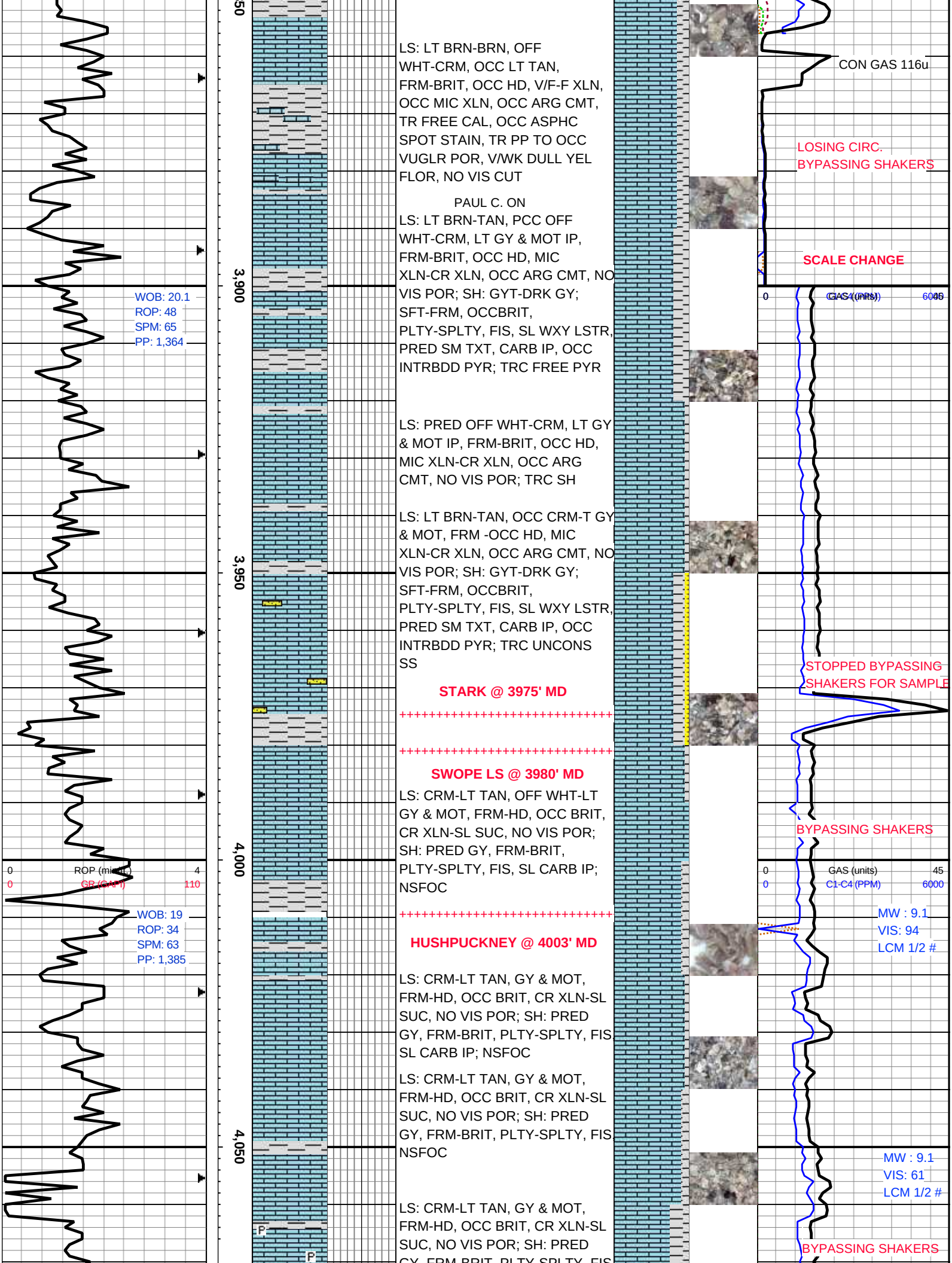
LS: LT BRN-BRN, OFF WHT-CRM, OCC LT TAN, FRM-BRIT, OCC HD, V/F-F XLN, OCC MIC XLN, OCC ARG CMT, TR FREE CAL TR PP TO OCC VUGLR POR, V/WK DULL YEL FLOR, NO VIS CUT

CON GAS 160u

3,650
3,700
3,750
3,800

0 ROP (min/ft.) 4
0 GR (GAPI) 110

0 GAS (Units) 300
0 C1-C4 (PPM) 35000


3,900
3,950
4,000
4,050
WOB: 20.1
ROP: 48
SPM: 65
PP: 1,364
0
ROP (min/ft)
4
0
GR (GAPI)
110
WOB: 19
ROP: 34
SPM: 63
PP: 1,385
LS: LT BRN-BRN, OFF WHT-CRM, OCC LT TAN, FRM-BRIT, OCC HD, V/F-F XLN, OCC MIC XLN, OCC ARG CMT, TR FREE CAL, OCC ASPHC SPOT STAIN, TR PP TO OCC VUGLR POR, V/WK DULL YEL FLOR, NO VIS CUT
PAUL C. ON
LS: LT BRN-TAN, PCC OFF WHT-CRM, LT GY & MOT IP, FRM-BRIT, OCC HD, MIC XLN-CR XLN, OCC ARG CMT, NO VIS POR; SH: GYT-DRK GY; SFT-FRM, OCCBRIT, PLTY-SPLTY, FIS, SL WXY LSTR, PRED SM TXT, CARB IP, OCC INTRBDD PYR; TRC FREE PYR
LS: PRED OFF WHT-CRM, LT GY & MOT IP, FRM-BRIT, OCC HD, MIC XLN-CR XLN, OCC ARG CMT, NO VIS POR; TRC SH
LS: LT BRN-TAN, OCC CRM-T GY & MOT, FRM -OCC HD, MIC XLN-CR XLN, OCC ARG CMT, NO VIS POR; SH: GYT-DRK GY; SFT-FRM, OCCBRIT, PLTY-SPLTY, FIS, SL WXY LSTR, PRED SM TXT, CARB IP, OCC INTRBDD PYR; TRC UNCONS SS
STARK @ 3975' MD
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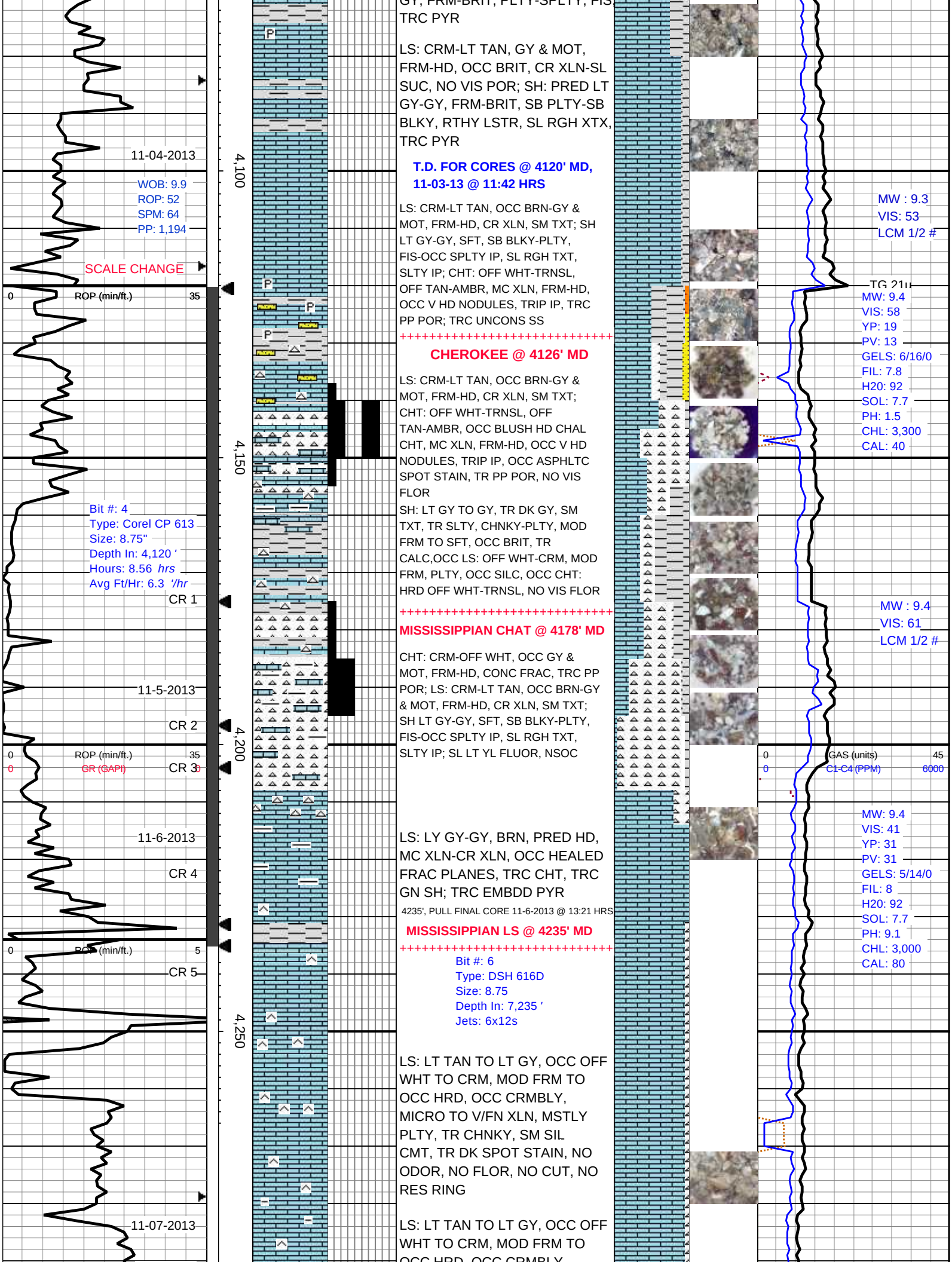
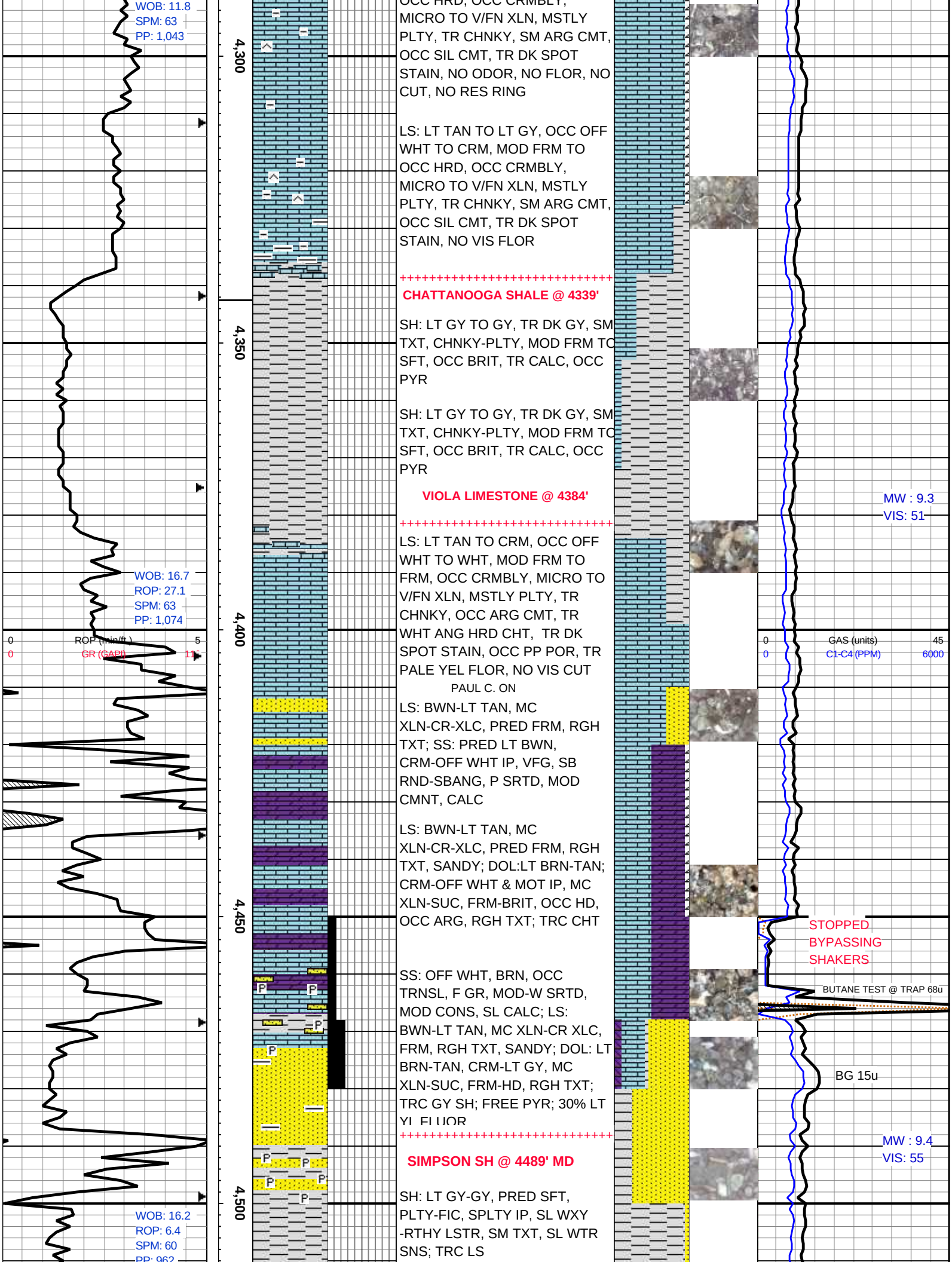
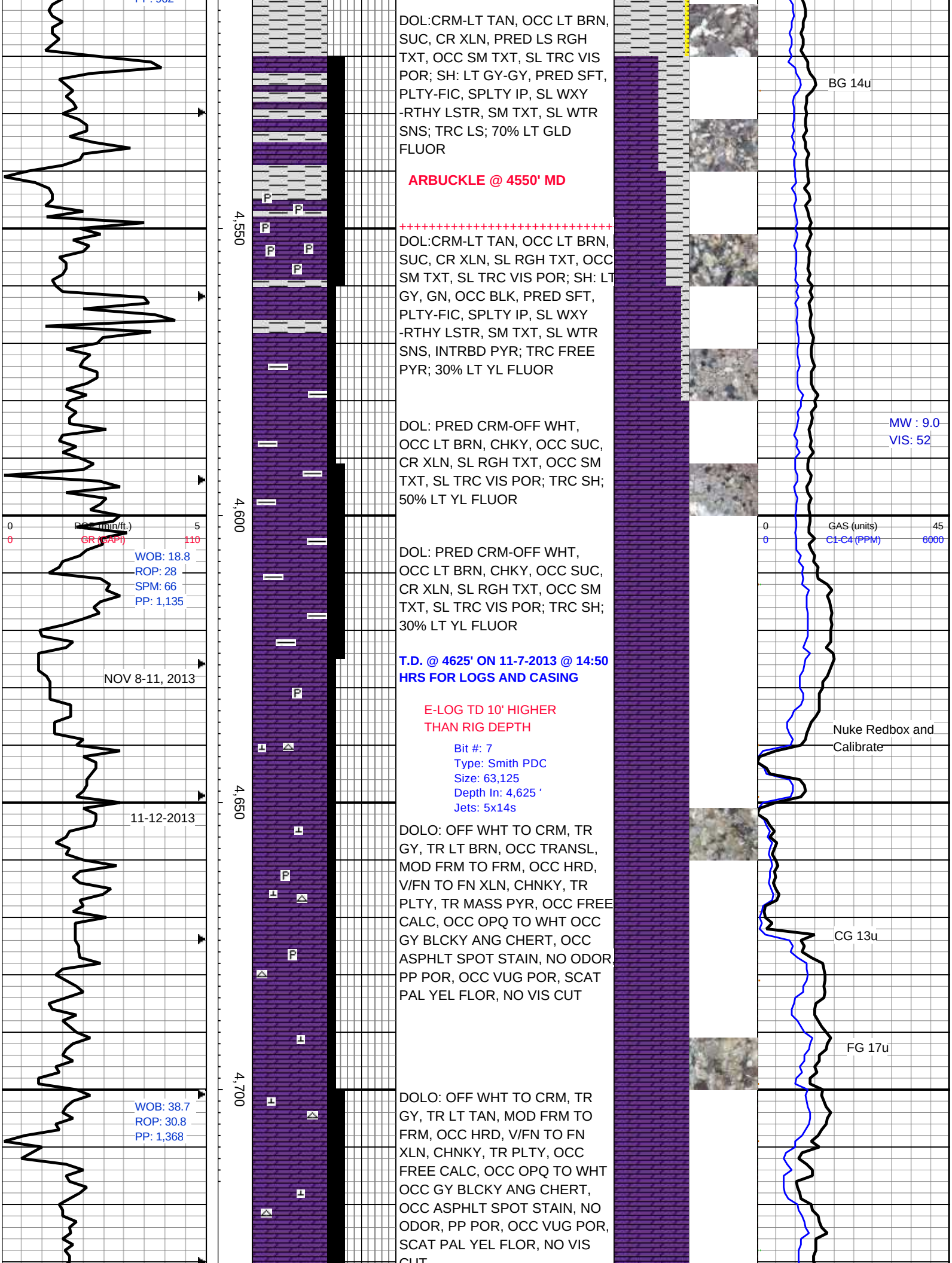
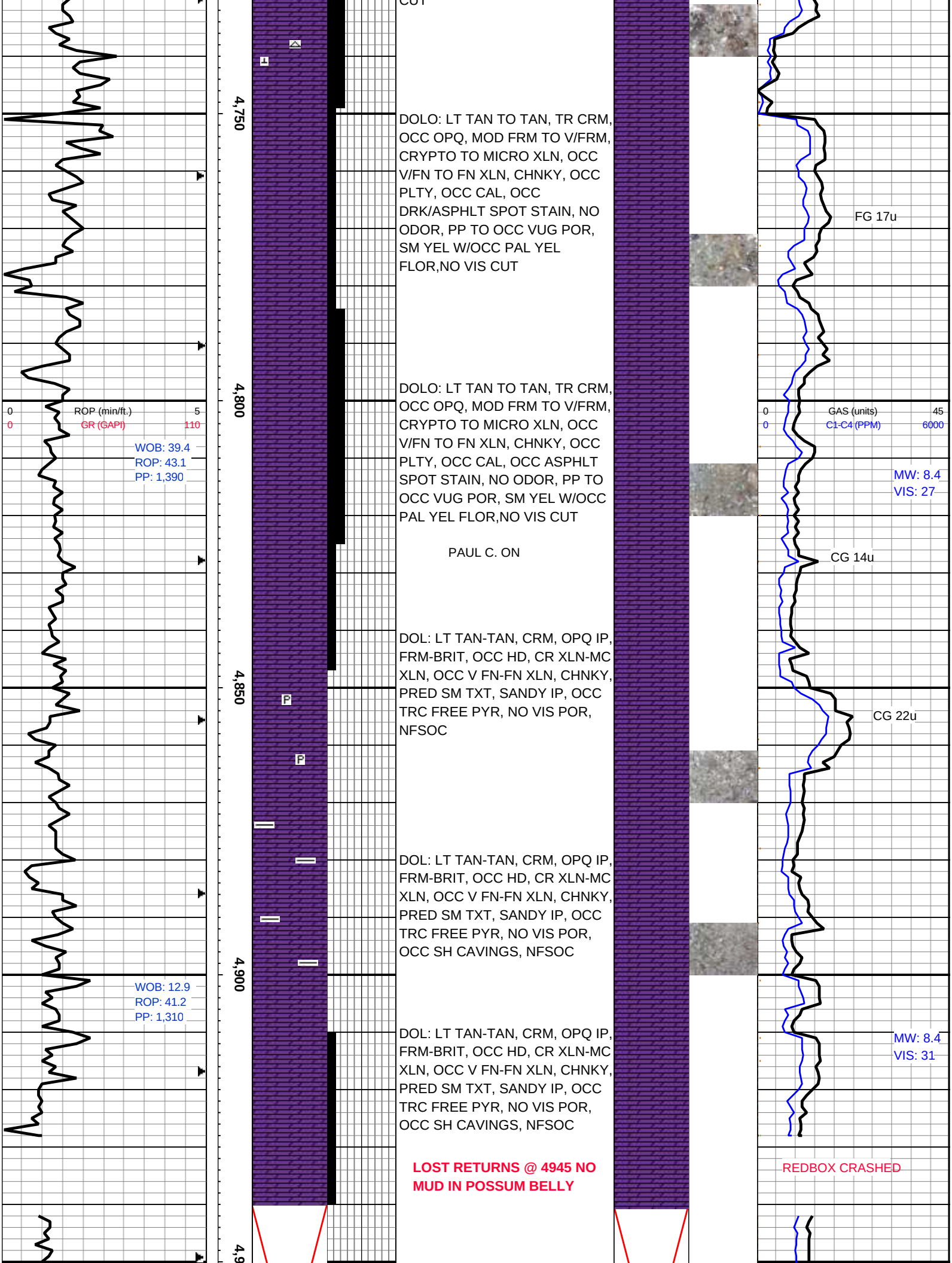
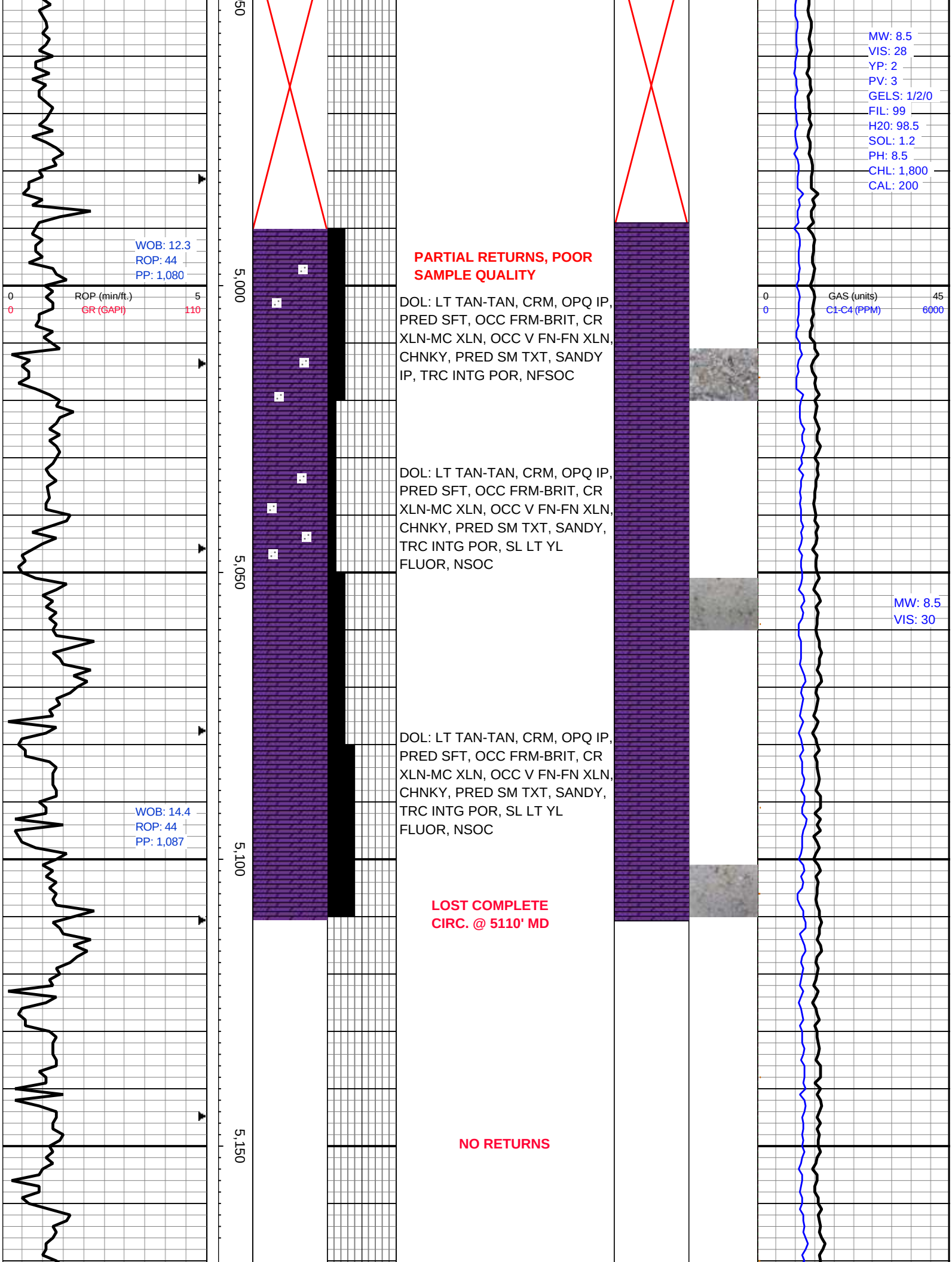
++++++++++++++++++++++++++++++
SWOPE LS @ 3980' MD
LS: CRM-LT TAN, OFF WHT-LT GY & MOT, FRM-HD, OCC BRIT, CR XLN-SL SUC, NO VIS POR; SH: PRED GY, FRM-BRIT, PLTY-SPLTY, FIS, SL CARB IP; NSFOC
++++++++++++++++++++++++++++++
HUSHPUCKNEY @ 4003' MD
LS: CRM-LT TAN, GY & MOT, FRM-HD, OCC BRIT, CR XLN-SL SUC, NO VIS POR; SH: PRED GY, FRM-BRIT, PLTY-SPLTY, FIS SL CARB IP; NSFOC
LS: CRM-LT TAN, GY & MOT, FRM-HD, OCC BRIT, CR XLN-SL SUC, NO VIS POR; SH: PRED GY, FRM-BRIT, PLTY-SPLTY, FIS NSFOC
LS: CRM-LT TAN, GY & MOT, FRM-HD, OCC BRIT, CR XLN-SL SUC, NO VIS POR; SH: PRED
CON GAS 116u
LOSING CIRC.
BYPASSING SHAKERS
SCALE CHANGE
0
GAS (units)
45
0
C1-C4 (PPM)
6000
STOPPED BYPASSING
SHAKERS FOR SAMPLE
BYPASSING SHAKERS
0
GAS (units)
45
0
C1-C4 (PPM)
6000
MW : 9.1
VIS: 94
LCM 1/2 #
MW : 9.1
VIS: 61
LCM 1/2 #
BYPASSING SHAKERS

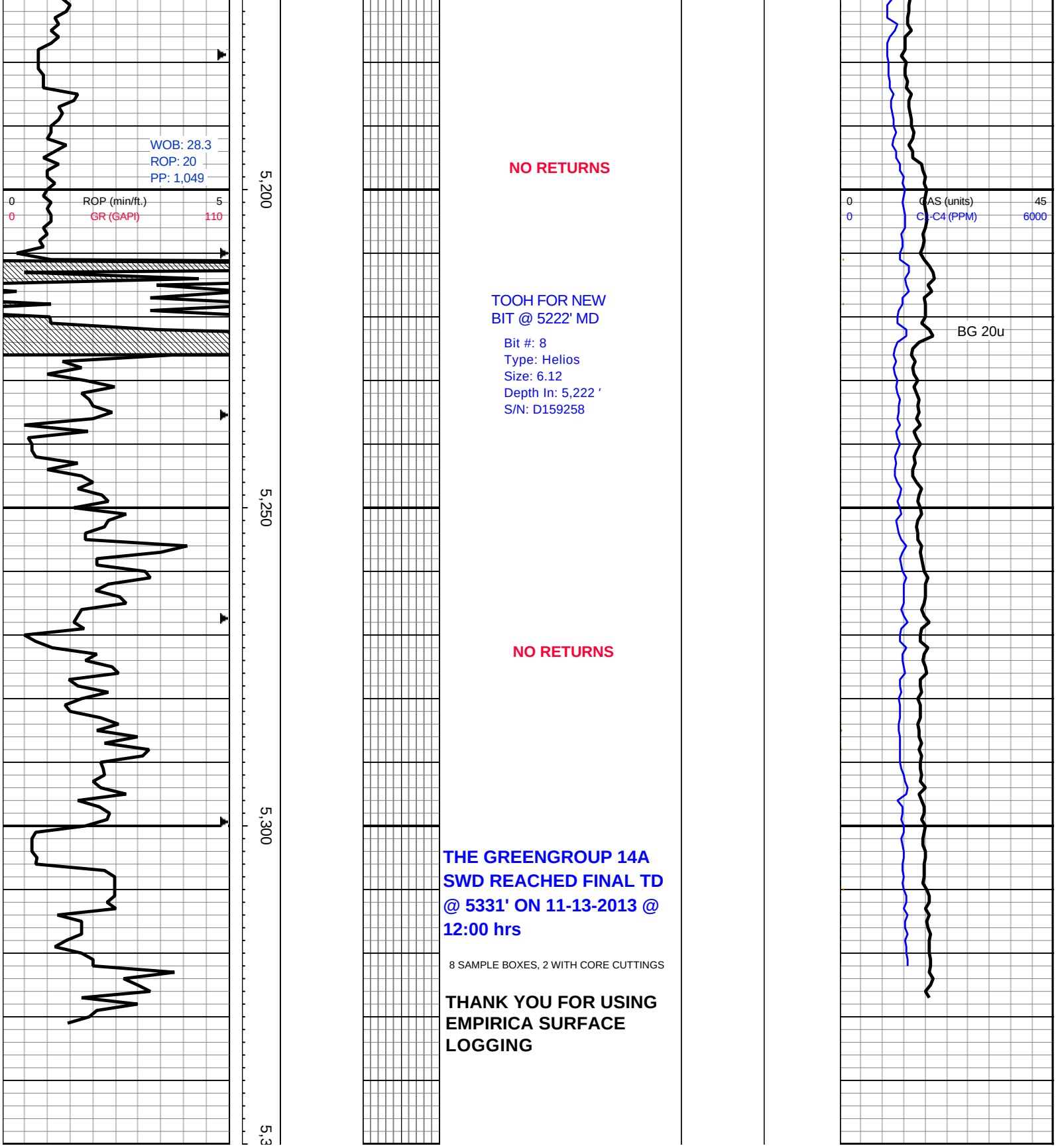

11-04-2013
WOB: 9.9
ROP: 52
SPM: 64
PP: 1,194
SCALE CHANGE
0
ROP (min/ft.)
35
4,100
4,150
Bit #: 4
Type: Corel CP 613
Size: 8.75"
Depth In: 4,120 '
Hours: 8.56 hrs
Avg Ft/Hr: 6.3 '/hr
CR 1
11-5-2013
CR 2
0
ROP (min/ft.)
35
0
GR (GAPI)
0
CR 3
4,200
11-6-2013
CR 4
0
ROP (min/ft.)
5
CR 5
4,250
11-07-2013
GY, FRM-BRIT, PLTY-SPLTY, FIS
TRC PYR
LS: CRM-LT TAN, GY & MOT, FRM-HD, OCC BRIT, CR XLN-SL SUC, NO VIS POR; SH: PRED LT GY-GY, FRM-BRIT, SB PLTY-SB BLKY, RTHY LSTR, SL RGH XTX, TRC PYR
T.D. FOR CORES @ 4120' MD, 11-03-13 @ 11:42 HRS
LS: CRM-LT TAN, OCC BRN-GY & MOT, FRM-HD, CR XLN, SM TXT; SH LT GY-GY, SFT, SB BLKY-PLTY, FIS-OCC SPLTY IP, SL RGH TXT, SLTY IP; CHT: OFF WHT-TRNSL, OFF TAN-AMBR, MC XLN, FRM-HD, OCC V HD NODULES, TRIP IP, TRC PP POR; TRC UNCONS SS
++++++++++++++++++++++++++++++
CHEROKEE @ 4126' MD
LS: CRM-LT TAN, OCC BRN-GY & MOT, FRM-HD, CR XLN, SM TXT; CHT: OFF WHT-TRNSL, OFF TAN-AMBR, OCC BLUSH HD CHAL CHT, MC XLN, FRM-HD, OCC V HD NODULES, TRIP IP, OCC ASPHLTC SPOT STAIN, TR PP POR, NO VIS FLOR
SH: LT GY TO GY, TR DK GY, SM TXT, TR SLTY, CHNKY-PLTY, MOD FRM TO SFT, OCC BRIT, TR CALC,OCC LS: OFF WHT-CRM, MOD FRM, PLTY, OCC SILC, OCC CHT: HRD OFF WHT-TRNSL, NO VIS FLOR
++++++++++++++++++++++++++++++
MISSISSIPPIAN CHAT @ 4178' MD
CHT: CRM-OFF WHT, OCC GY & MOT, FRM-HD, CONC FRAC, TRC PP POR; LS: CRM-LT TAN, OCC BRN-GY & MOT, FRM-HD, CR XLN, SM TXT; SH LT GY-GY, SFT, SB BLKY-PLTY, FIS-OCC SPLTY IP, SL RGH TXT, SLTY IP; SL LT YL FLUOR, NSOC
LS: LY GY-GY, BRN, PRED HD, MC XLN-CR XLN, OCC HEALED FRAC PLANES, TRC CHT, TRC GN SH; TRC EMBDD PYR
4235', PULL FINAL CORE 11-6-2013 @ 13:21 HRS
MISSISSIPPIAN LS @ 4235' MD
++++++++++++++++++++++++++++++
Bit #: 6
Type: DSH 616D
Size: 8.75
Depth In: 7,235 '
Jets: 6x12s
LS: LT TAN TO LT GY, OCC OFF WHT TO CRM, MOD FRM TO OCC HRD, OCC CRMBLY, MICRO TO V/FN XLN, MSTLY PLTY, TR CHNKY, SM SIL CMT, TR DK SPOT STAIN, NO ODOR, NO FLOR, NO CUT, NO RES RING
LS: LT TAN TO LT GY, OCC OFF WHT TO CRM, MOD FRM TO
MW : 9.3
VIS: 53
LCM 1/2 #
TG 21u
MW: 9.4
VIS: 58
YP: 19
PV: 13
GELS: 6/16/0
FIL: 7.8
H20: 92
SOL: 7.7
PH: 1.5
CHL: 3,300
CAL: 40
MW : 9.4
VIS: 61
LCM 1/2 #
0
GAS (units)
45
0
C1-C4 (PPM)
6000
MW: 9.4
VIS: 41
YP: 31
PV: 31
GELS: 5/14/0
FIL: 8
H20: 92
SOL: 7.7
PH: 9.1
CHL: 3,000
CAL: 80


WOB: 11.8
SPM: 63
PP: 1,043
4,300
OCC HRD, OCC CRMBLY, MICRO TO V/FN XLN, MSTLY PLTY, TR CHNKY, SM ARG CMT, OCC SIL CMT, TR DK SPOT STAIN, NO ODOR, NO FLOR, NO CUT, NO RES RING
LS: LT TAN TO LT GY, OCC OFF WHT TO CRM, MOD FRM TO OCC HRD, OCC CRMBLY, MICRO TO V/FN XLN, MSTLY PLTY, TR CHNKY, SM ARG CMT, OCC SIL CMT, TR DK SPOT STAIN, NO VIS FLOR
++++++++++++++++++++++++++++++
CHATTANOOGA SHALE @ 4339'
SH: LT GY TO GY, TR DK GY, SM TXT, CHNKY-PLTY, MOD FRM TO SFT, OCC BRIT, TR CALC, OCC PYR
4,350
SH: LT GY TO GY, TR DK GY, SM TXT, CHNKY-PLTY, MOD FRM TO SFT, OCC BRIT, TR CALC, OCC PYR
VIOLA LIMESTONE @ 4384'
++++++++++++++++++++++++++++++
MW : 9.3
VIS: 51
WOB: 16.7
ROP: 27.1
SPM: 63
PP: 1,074
4,400
LS: LT TAN TO CRM, OCC OFF WHT TO WHT, MOD FRM TO FRM, OCC CRMBLY, MICRO TO V/FN XLN, MSTLY PLTY, TR CHNKY, OCC ARG CMT, TR WHT ANG HRD CHT, TR DK SPOT STAIN, OCC PP POR, TR PALE YEL FLOR, NO VIS CUT
PAUL C. ON
LS: BWN-LT TAN, MC XLN-CR-XLC, PRED FRM, RGH TXT; SS: PRED LT BWN, CRM-OFF WHT IP, VFG, SB RND-SBANG, P SRTD, MOD CMNT, CALC
LS: BWN-LT TAN, MC XLN-CR-XLC, PRED FRM, RGH TXT, SANDY; DOL:LT BRN-TAN; CRM-OFF WHT & MOT IP, MC XLN-SUC, FRM-BRIT, OCC HD, OCC ARG, RGH TXT; TRC CHT
0
ROP (min/ft)
5
0
GR (GAPI)
150
0
GAS (units)
45
0
C1-C4 (PPM)
6000
STOPPED BYPASSING SHAKERS
BUTANE TEST @ TRAP 68u
4,450
SS: OFF WHT, BRN, OCC TRNSL, F GR, MOD-W SRTD, MOD CONS, SL CALC; LS: BWN-LT TAN, MC XLN-CR XLC, FRM, RGH TXT, SANDY; DOL: LT BRN-TAN, CRM-LT GY, MC XLN-SUC, FRM-HD, RGH TXT; TRC GY SH; FREE PYR; 30% LT YL FLUOR
BG 15u
++++++++++++++++++++++++++++++
SIMPSON SH @ 4489' MD
MW : 9.4
VIS: 55
WOB: 16.2
ROP: 6.4
SPM: 60
PP: 962
4,500
SH: LT GY-GY, PRED SFT, PLTY-FIC, SPLTY IP, SL WXY -RTHY LSTR, SM TXT, SL WTR SNS; TRC LS


DOL:CRM-LT TAN, OCC LT BRN, SUC, CR XLN, PRED LS RGH TXT, OCC SM TXT, SL TRC VIS POR; SH: LT GY-GY, PRED SFT, PLTY-FIC, SPLTY IP, SL WXY -RTHY LSTR, SM TXT, SL WTR SNS; TRC LS; 70% LT GLD FLUOR
ARBUCKLE @ 4550' MD
++++++++++++++++++++++++++++
DOL:CRM-LT TAN, OCC LT BRN, SUC, CR XLN, SL RGH TXT, OCC SM TXT, SL TRC VIS POR; SH: LT GY, GN, OCC BLK, PRED SFT, PLTY-FIC, SPLTY IP, SL WXY -RTHY LSTR, SM TXT, SL WTR SNS, INTRBD PYR; TRC FREE PYR; 30% LT YL FLUOR
DOL: PRED CRM-OFF WHT, OCC LT BRN, CHKY, OCC SUC, CR XLN, SL RGH TXT, OCC SM TXT, SL TRC VIS POR; TRC SH; 50% LT YL FLUOR
DOL: PRED CRM-OFF WHT, OCC LT BRN, CHKY, OCC SUC, CR XLN, SL RGH TXT, OCC SM TXT, SL TRC VIS POR; TRC SH; 30% LT YL FLUOR
T.D. @ 4625' ON 11-7-2013 @ 14:50 HRS FOR LOGS AND CASING
E-LOG TD 10' HIGHER THAN RIG DEPTH
Bit #: 7
Type: Smith PDC
Size: 63,125
Depth In: 4,625 '
Jets: 5x14s
DOLO: OFF WHT TO CRM, TR GY, TR LT BRN, OCC TRANSL, MOD FRM TO FRM, OCC HRD, V/FN TO FN XLN, CHNKY, TR PLTY, TR MASS PYR, OCC FREE CALC, OCC OPQ TO WHT OCC GY BLCKY ANG CHERT, OCC ASPHLT SPOT STAIN, NO ODOR, PP POR, OCC VUG POR, SCAT PAL YEL FLOR, NO VIS CUT
DOLO: OFF WHT TO CRM, TR GY, TR LT TAN, MOD FRM TO FRM, OCC HRD, V/FN TO FN XLN, CHNKY, TR PLTY, OCC FREE CALC, OCC OPQ TO WHT OCC GY BLCKY ANG CHERT, OCC ASPHLT SPOT STAIN, NO ODOR, PP POR, OCC VUG POR, SCAT PAL YEL FLOR, NO VIS CUT
4,550
4,600
4,650
4,700
BG 14u
MW : 9.0
VIS: 52
0
ROP (min/ft.)
5
0
GR (GAPI)
110
WOB: 18.8
ROP: 28
SPM: 66
PP: 1,135
NOV 8-11, 2013
11-12-2013
WOB: 38.7
ROP: 30.8
PP: 1,368
0
GAS (units)
45
0
C1-C4 (PPM)
6000
Nuke Redbox and Calibrate
CG 13u
FG 17u


CUT
DOLO: LT TAN TO TAN, TR CRM, OCC OPQ, MOD FRM TO V/FRM, CRYPTO TO MICRO XLN, OCC V/FN TO FN XLN, CHNKY, OCC PLTY, OCC CAL, OCC DRK/ASPHLT SPOT STAIN, NO ODOR, PP TO OCC VUG POR, SM YEL W/OCC PAL YEL FLOR,NO VIS CUT
DOLO: LT TAN TO TAN, TR CRM, OCC OPQ, MOD FRM TO V/FRM, CRYPTO TO MICRO XLN, OCC V/FN TO FN XLN, CHNKY, OCC PLTY, OCC CAL, OCC ASPHLT SPOT STAIN, NO ODOR, PP TO OCC VUG POR, SM YEL W/OCC PAL YEL FLOR,NO VIS CUT
PAUL C. ON
DOL: LT TAN-TAN, CRM, OPQ IP, FRM-BRIT, OCC HD, CR XLN-MC XLN, OCC V FN-FN XLN, CHNKY, PRED SM TXT, SANDY IP, OCC TRC FREE PYR, NO VIS POR, NFSOC
DOL: LT TAN-TAN, CRM, OPQ IP, FRM-BRIT, OCC HD, CR XLN-MC XLN, OCC V FN-FN XLN, CHNKY, PRED SM TXT, SANDY IP, OCC TRC FREE PYR, NO VIS POR, OCC SH CAVINGS, NFSOC
DOL: LT TAN-TAN, CRM, OPQ IP, FRM-BRIT, OCC HD, CR XLN-MC XLN, OCC V FN-FN XLN, CHNKY, PRED SM TXT, SANDY IP, OCC TRC FREE PYR, NO VIS POR, OCC SH CAVINGS, NFSOC
LOST RETURNS @ 4945 NO MUD IN POSSUM BELLY
4,750
4,800
4,850
4,900
0
ROP (min/ft.)
5
0
GR (GAPI)
110
WOB: 39.4
ROP: 43.1
PP: 1,390
WOB: 12.9
ROP: 41.2
PP: 1,310
0
GAS (units)
45
0
C1-C4 (PPM)
6000
FG 17u
MW: 8.4
VIS: 27
CG 14u
CG 22u
MW: 8.4
VIS: 31
REDBOX CRASHED


MW: 8.5
VIS: 28
YP: 2
PV: 3
GELS: 1/2/0
FIL: 99
H20: 98.5
SOL: 1.2
PH: 8.5
CHL: 1,800
CAL: 200
WOB: 12.3
ROP: 44
PP: 1,080
0
0
ROP (min/ft.)
GR (GAPI)
5
110
0
0
GAS (units)
C1-C4 (PPM)
45
6000
5,000
PARTIAL RETURNS, POOR SAMPLE QUALITY
DOL: LT TAN-TAN, CRM, OPQ IP, PRED SFT, OCC FRM-BRIT, CR XLN-MC XLN, OCC V FN-FN XLN, CHNKY, PRED SM TXT, SANDY IP, TRC INTG POR, NFSOC
DOL: LT TAN-TAN, CRM, OPQ IP, PRED SFT, OCC FRM-BRIT, CR XLN-MC XLN, OCC V FN-FN XLN, CHNKY, PRED SM TXT, SANDY, TRC INTG POR, SL LT YL FLUOR, NSOC
5,050
MW: 8.5
VIS: 30
WOB: 14.4
ROP: 44
PP: 1,087
DOL: LT TAN-TAN, CRM, OPQ IP, PRED SFT, OCC FRM-BRIT, CR XLN-MC XLN, OCC V FN-FN XLN, CHNKY, PRED SM TXT, SANDY, TRC INTG POR, SL LT YL FLUOR, NSOC
5,100
LOST COMPLETE CIRC. @ 5110' MD
NO RETURNS
5,150


WOB: 28.3
ROP: 20
PP: 1,049
0
ROP (min/ft.)
5
0
GR (GAPI)
110
5,200
5,250
5,300
5,3
NO RETURNS
TOOH FOR NEW
BIT @ 5222' MD
Bit #: 8
Type: Helios
Size: 6.12
Depth In: 5,222 '
S/N: D159258
NO RETURNS
THE GREENGROUP 14A
SWD REACHED FINAL TD
@ 5331' ON 11-13-2013 @
12:00 hrs
8 SAMPLE BOXES, 2 WITH CORE CUTTINGS
THANK YOU FOR USING
EMPIRICA SURFACE
LOGGING
0
GAS (units)
45
0
C1-C4 (PPM)
6000
BG 20u