KOLAR Document ID: 1459268

Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
January 2018
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 32446
Name: Merit Energy Company, LLC
Address 1: 13727 NOEL ROAD, SUITE 1200
Address 2:
City: DALLAS State: TX Zip: 75240 + ____
Contact Person: IDANIA MEDINA
Phone: (620) 629-4228
CONTRACTOR: License # 5929
Name: Duke Drilling Co., Inc.
Wellsite Geologist: Merit Energy Geologist
Purchaser:

Designate Type of Completion:
☑ New Well ☐ Re-Entry ☐ Workover
☐ Oil ☐ WSW ☐ SWD
☐ Gas ☑ DH ☐ EOR
☐ OG ☐ GSW
☐ 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 EOR ☐ Conv. to SWD
☐ Plug Back ☐ Liner ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ EOR Permit #:
☐ GSW Permit #:

4/25/2019	4/29/2019	4/30/2019
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No.: 15-175-22267-00-00
Spot Description:
NW - NE - SE - SW Sec. 34 Twp. 32 S. R. 34 ☐ East ☑ West
1247 Feet from ☐ North / ☑ South Line of Section
2031 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: Seward
Lease Name: EAST FORK Well #: 34-1
Field Name: Holt South
Producing Formation: Dry
Elevation: Ground: 2896 Kelly Bushing: 2908
Total Vertical Depth: 6400 Plug Back Total Depth: 0
Amount of Surface Pipe Set and Cemented at: 1582 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: 1900 ppm Fluid volume: 600 bbls
Dewatering method used: Evaporated
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: 05/07/2019
☐ **Confidential Release Date:** 05/06/2021
☑ **Wireline Log Received** ☐ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** Karen Ritter **Date:** 05/08/2019

Operator Name: Merit Energy Company, LLC Lease Name: EAST FORK Well #: 34-1

Sec. 34 Twp. 32 S. R. 34 ☐ East ☑ West County: Seward

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 *(Attach Additional Sheets)*	☐ Yes	☑ No
Samples Sent to Geological Survey	☑ Yes	☐ No
Cores Taken	☐ Yes	☑ No
Electric Log Run	☑ Yes	☐ No
Geologist Report / Mud Logs	☑ Yes	☐ No

List All E. Logs Run:
Attached

☑ 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	12.25	8.625	24	1582	A/C	580	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	-			
	-			

1. Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☑ No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/ Injection:	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:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	Top / Bottom

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*

TUBING RECORD: Size: Set At: Packer At:

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Merit Energy Company, LLC
Well Name	EAST FORK 34-1
Doc ID	1459268

All Electric Logs Run

ANNULAR HOLE VOLUME LOG 5 CASING
ARRAY COMPENSATED TRUE RESISTIVITY LOG 1
ARRAY COMPENSATED TRUE RESISTIVITY LOG 2
ARRAY COMPENSATED TRUE RESISTIVITY LOG 5
ARRAY TRUE RESISTIVITY SPECTRAL DENSITY DUAL SPACED NEUTRON BOREHOLE SONIC QUAD COMBO LOG
BOREHOLE COMPENSATED SONIC LOG
MICROLOG

Form	ACO1 - Well Completion
Operator	Merit Energy Company, LLC
Well Name	EAST FORK 34-1
Doc ID	1459268

Tops

Name	Top	Datum
HEEBNER	4140	
TORONTO	4181	
LANSING	4305	
MARMATON	5003	
CHEROKEE	5174	
ATOKA	5393	
MORROW	5668	
CHESTER	5896	
ST GENEVIEVE	6202	
ST LOUIS	6249	

Form	ACO1 - Well Completion
Operator	Merit Energy Company, LLC
Well Name	EAST FORK 34-1
Doc ID	1459268

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	12.25	8.625	24	1582	A/C	580	SEE ATTACHED

MBC WELL LOGGING LLC

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

Well Name:	**EAST FORK 1-34 AFE 63467 MERIT ENERGY CO LLC**
Well Id:	**API 15-175-22267-00-00**
Location:	**SEWARD COUNTY, KANSAS USA**
License Number:	**32446** **Region:**
Spud Date:	**04-26-2019** **Drilling Completed: 04/29/2019**
Surface Coordinates:	**2193'fel- 2316'fnl-SEC 15-T28S-R34W**
	DUKE RIG 9 #5929 RODNEY GONZALES CO-MAN
Bottom Hole Coordinates:	**HLS-DIL/SP/GR CNL/CAL/PE/BHV SONIC SFC- GR TO SFC'**
Ground Elevation (ft):	**2896** **K.B. Elevation (ft): 2908**
Logged Interval (ft):	**4150' To: 6400' Total Depth (ft): Elog 6402**
Formation:	**ST LOUIS**
Type of Drilling Fluid:	**MUDCO JUSTIN WHIT ING CELL (620)-214-3630**

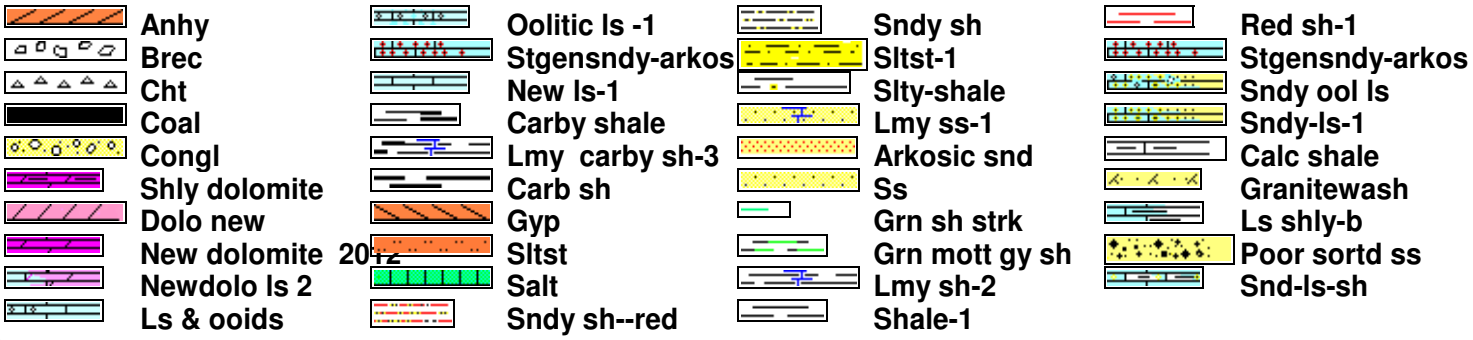
OPERATOR

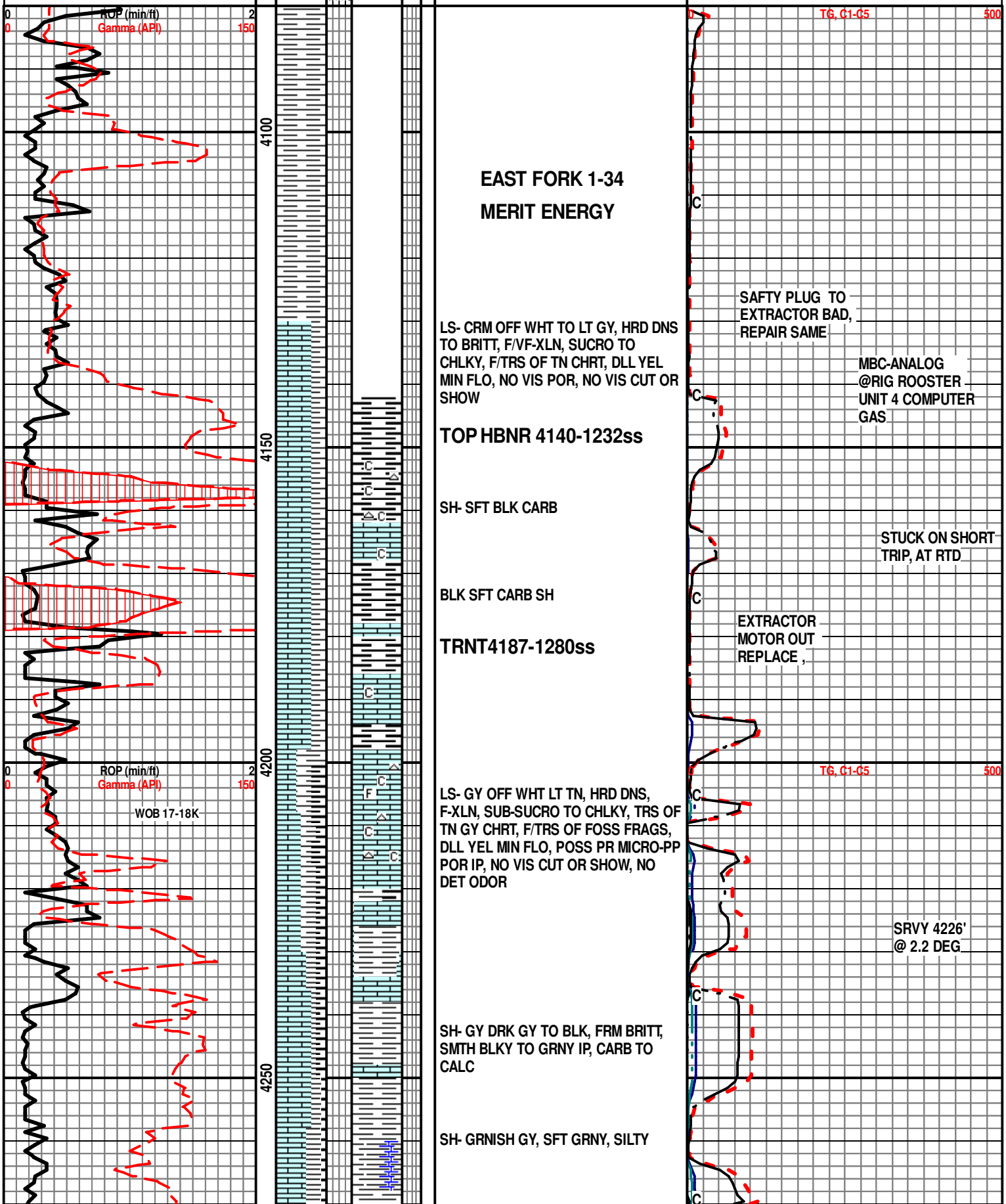
Company: MERIT ENERGY CO LLC
Address: ATTN MARTIN LANGE GEOLOGY
13727 NOEL RD STE 1200
DALLAS, TEXAS 75240

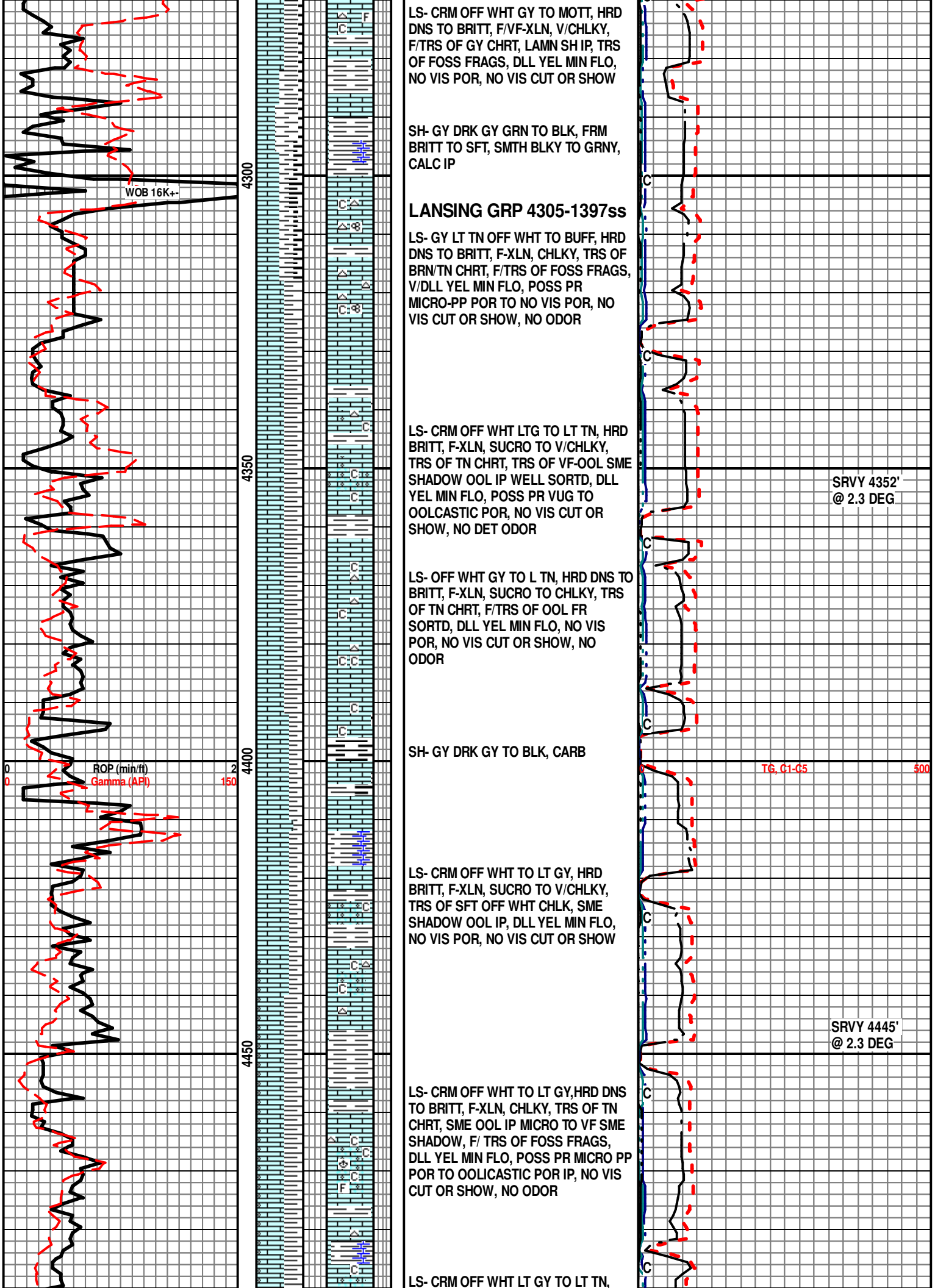
MUDLOGGER

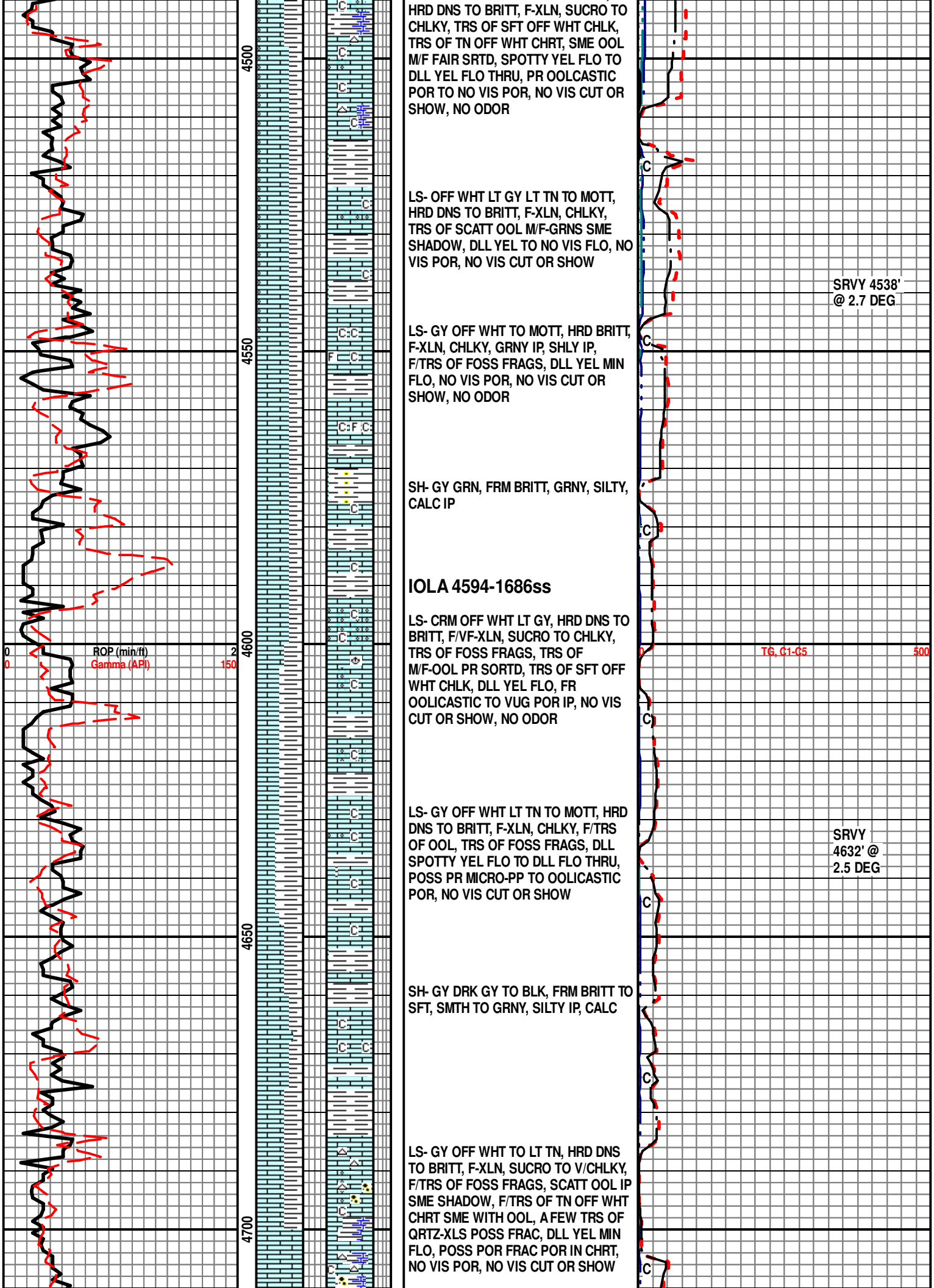
Name: AUSTIN GARNER//TROY FOWLER
Company: MBC WELL LOGGING LLC
Address: 21156 RD 22
MEADE, KANSAS 67864

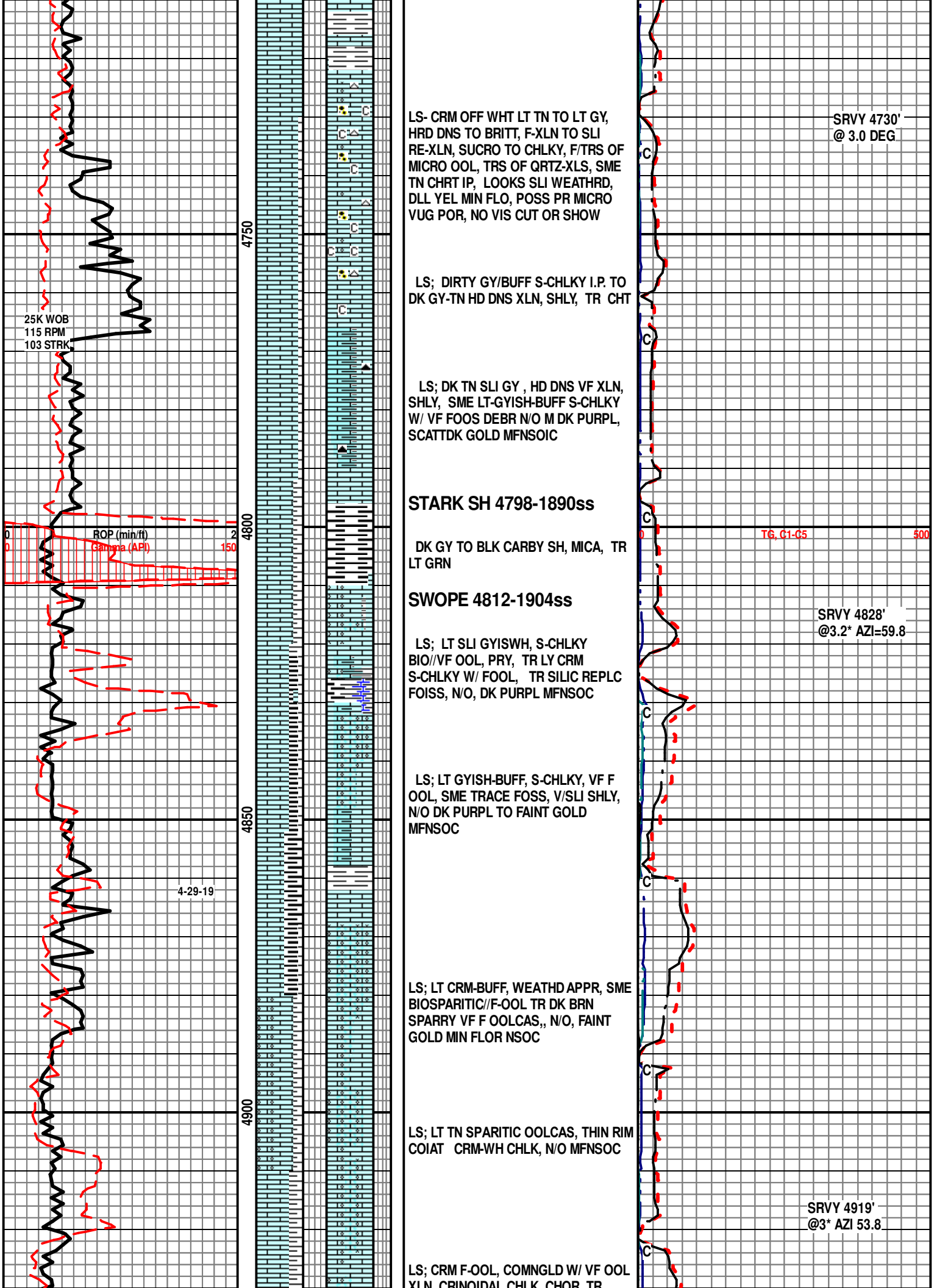
ROCK TYPES

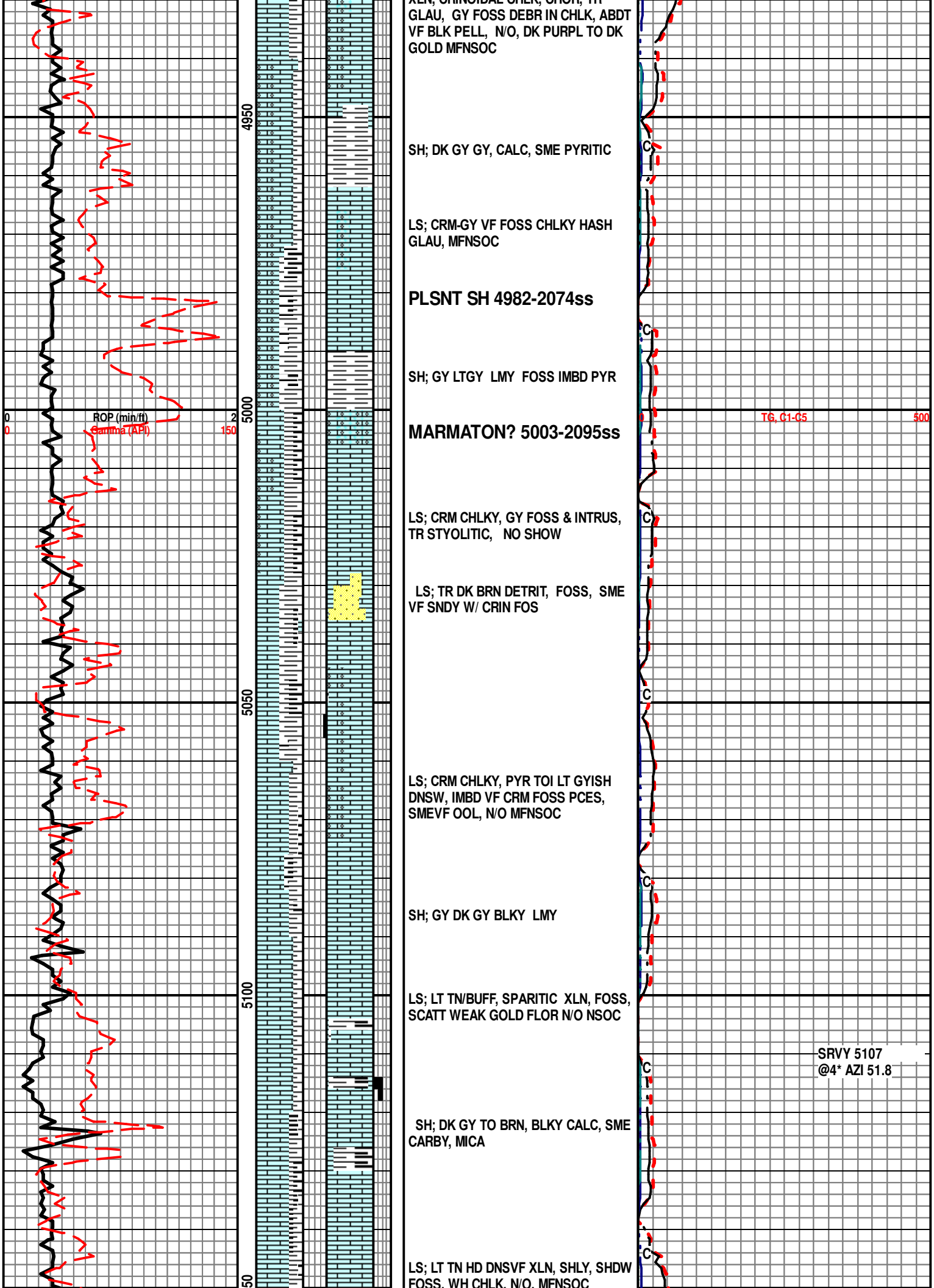


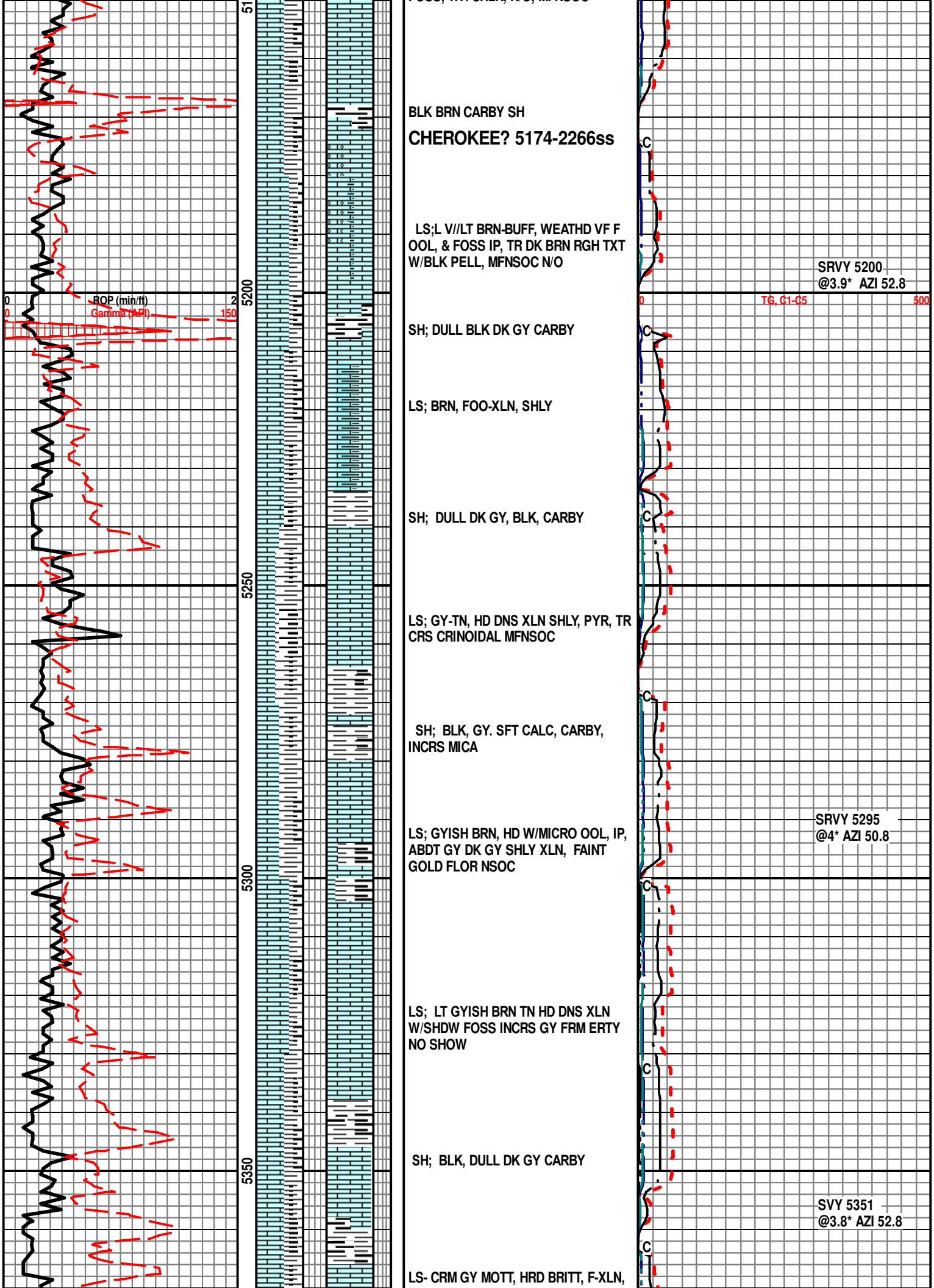

Curve Track 1
ROP (min/ft)
Gamma (API)
Depth
% Lithology
Porosity
Oil Shows
Geological Descriptions
TG, C1-C5
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
C5 (units)
ROP (min/ft)
Gamma (API)
TG, C1-C5
4100
4150
4200
4250
EAST FORK 1-34
MERIT ENERGY
LS- CRM OFF WHT TO LT GY, HRD DNS TO BRITT, F/VF-XLN, SUCRO TO CHLKY, F/TRS OF TN CHRT, DLL YEL MIN FLO, NO VIS POR, NO VIS CUT OR SHOW
TOP HBNR 4140-1232ss
SH- SFT BLK CARB
BLK SFT CARB SH
TRNT4187-1280ss
LS- GY OFF WHT LT TN, HRD DNS, F-XLN, SUB-SUCRO TO CHLKY, TRS OF TN GY CHRT, F/TRS OF FOSS FRAGS, DLL YEL MIN FLO, POSS PR MICRO-PP POR IP, NO VIS CUT OR SHOW, NO DET ODOR
SH- GY DRK GY TO BLK, FRM BRITT, SMTH BLKY TO GRNY IP, CARB TO CALC
SH- GRNISH GY, SFT GRNY, SILTY
SAFTY PLUG TO EXTRACTOR BAD, REPAIR SAME
MBC-ANALOG @RIG ROOSTER UNIT 4 COMPUTER GAS
STUCK ON SHORT TRIP, AT RTD
EXTRACTOR MOTOR OUT REPLACE ,
SRVY 4226' @ 2.2 DEG
WOB 17-18K

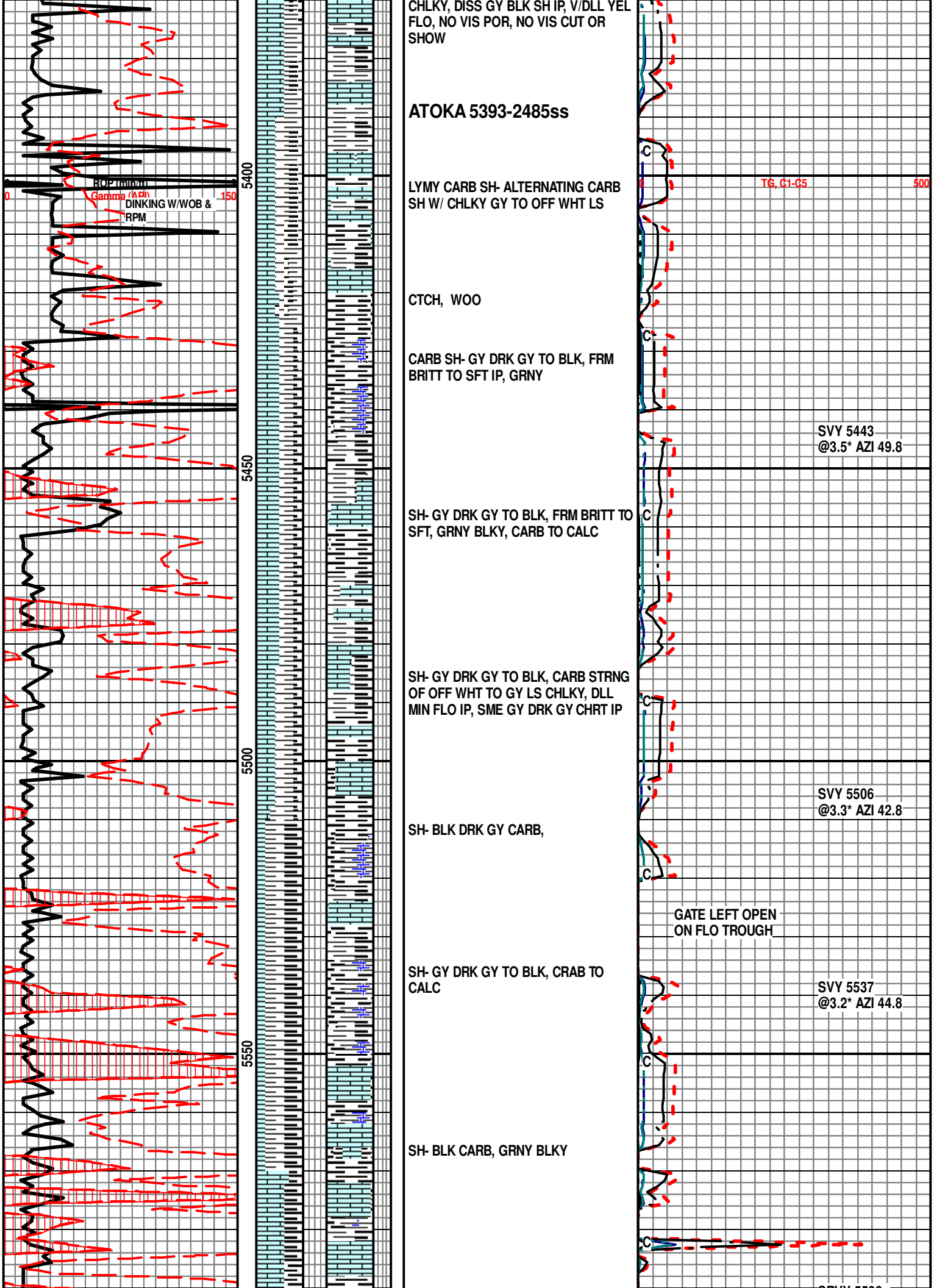

WOB 16K+-
4300
4350
4400
4450
0
ROP (min/ft)
2
0
Gamma (API)
150
TG, C1-C5
500
LS- CRM OFF WHT GY TO MOTT, HRD DNS TO BRITT, F/VF-XLN, V/CHLKY, F/TRS OF GY CHRT, LAMN SH IP, TRS OF FOSS FRAGS, DLL YEL MIN FLO, NO VIS POR, NO VIS CUT OR SHOW
SH- GY DRK GY GRN TO BLK, FRM BRITT TO SFT, SMTH BLKY TO GRNY, CALC IP
LANSING GRP 4305-1397ss
LS- GY LT TN OFF WHT TO BUFF, HRD DNS TO BRITT, F-XLN, CHLKY, TRS OF BRN/TN CHRT, F/TRS OF FOSS FRAGS, V/DLL YEL MIN FLO, POSS PR MICRO-PP POR TO NO VIS POR, NO VIS CUT OR SHOW, NO ODOR
LS- CRM OFF WHT LTG TO LT TN, HRD BRITT, F-XLN, SUCRO TO V/CHLKY, TRS OF TN CHRT, TRS OF VF-OOL SME SHADOW OOL IP WELL SORTD, DLL YEL MIN FLO, POSS PR VUG TO OOLCASTIC POR, NO VIS CUT OR SHOW, NO DET ODOR
SRVY 4352' @ 2.3 DEG
LS- OFF WHT GY TO L TN, HRD DNS TO BRITT, F-XLN, SUCRO TO CHLKY, TRS OF TN CHRT, F/TRS OF OOL FR SORTD, DLL YEL MIN FLO, NO VIS POR, NO VIS CUT OR SHOW, NO ODOR
SH- GY DRK GY TO BLK, CARB
LS- CRM OFF WHT TO LT GY, HRD BRITT, F-XLN, SUCRO TO V/CHLKY, TRS OF SFT OFF WHT CHLK, SME SHADOW OOL IP, DLL YEL MIN FLO, NO VIS POR, NO VIS CUT OR SHOW
SRVY 4445' @ 2.3 DEG
LS- CRM OFF WHT TO LT GY,HRD DNS TO BRITT, F-XLN, CHLKY, TRS OF TN CHRT, SME OOL IP MICRO TO VF SME SHADOW, F/ TRS OF FOSS FRAGS, DLL YEL MIN FLO, POSS PR MICRO PP POR TO OOLICASTIC POR IP, NO VIS CUT OR SHOW, NO ODOR
LS- CRM OFF WHT LT GY TO LT TN,

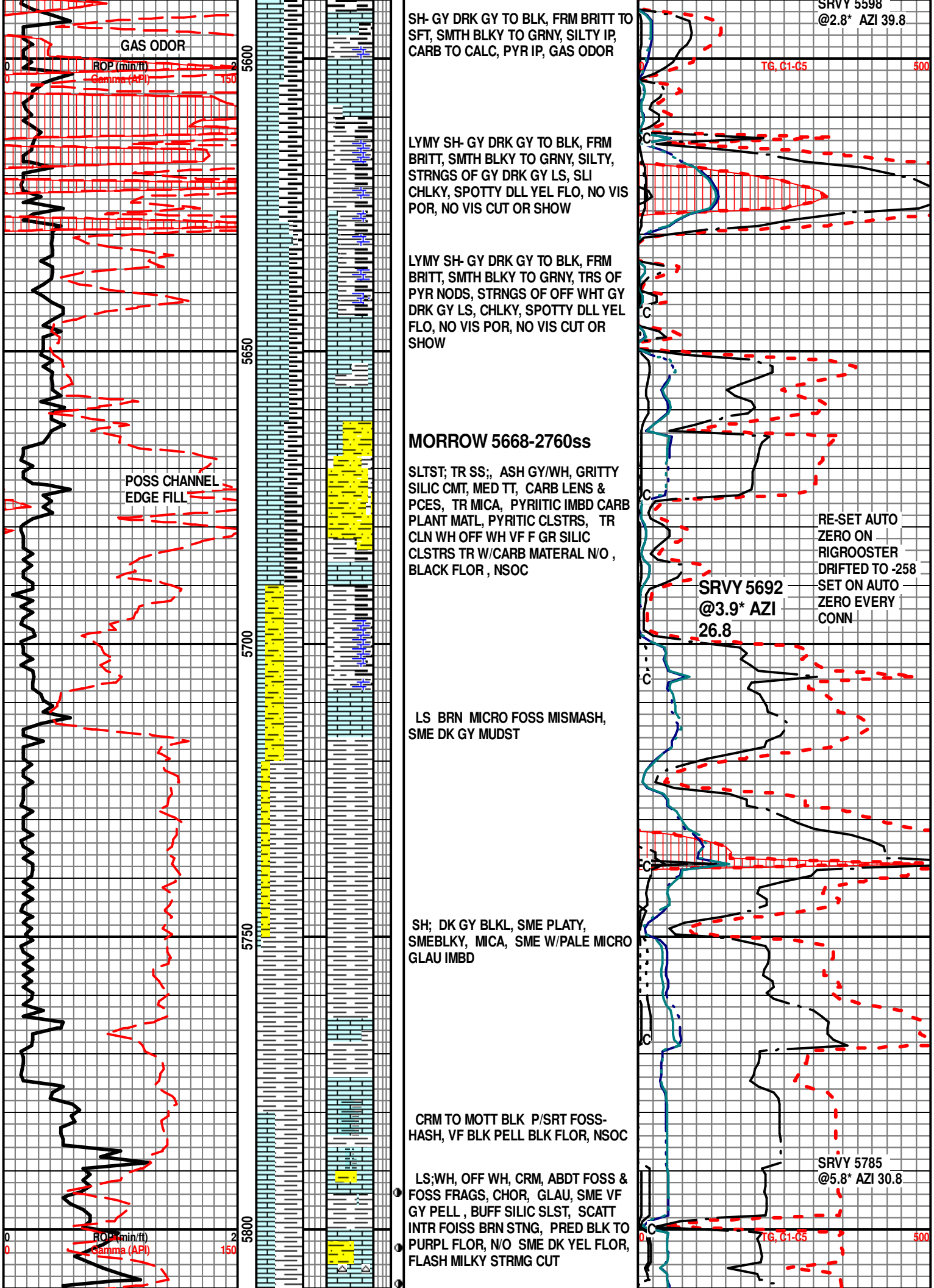

4500
4550
4600
4650
4700
0
ROP (min/ft)
2
0
Gamma (API)
150
TG, C1-C5
500
HRD DNS TO BRITT, F-XLN, SUCRO TO CHLKY, TRS OF SFT OFF WHT CHLK, TRS OF TN OFF WHT CHRT, SME OOL M/F FAIR SRTD, SPOTTY YEL FLO TO DLL YEL FLO THRU, PR OOLCASTIC POR TO NO VIS POR, NO VIS CUT OR SHOW, NO ODOR
LS- OFF WHT LT GY LT TN TO MOTT, HRD DNS TO BRITT, F-XLN, CHLKY, TRS OF SCATT OOL M/F-GRNS SME SHADOW, DLL YEL TO NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW
SRVY 4538' @ 2.7 DEG
LS- GY OFF WHT TO MOTT, HRD BRITT, F-XLN, CHLKY, GRNY IP, SHLY IP, F/TRS OF FOSS FRAGS, DLL YEL MIN FLO, NO VIS POR, NO VIS CUT OR SHOW, NO ODOR
SH- GY GRN, FRM BRITT, GRNY, SILTY, CALC IP
IOLA 4594-1686ss
LS- CRM OFF WHT LT GY, HRD DNS TO BRITT, F/VF-XLN, SUCRO TO CHLKY, TRS OF FOSS FRAGS, TRS OF M/F-OOL PR SORTD, TRS OF SFT OFF WHT CHLK, DLL YEL FLO, FR OOLICASTIC TO VUG POR IP, NO VIS CUT OR SHOW, NO ODOR
LS- GY OFF WHT LT TN TO MOTT, HRD DNS TO BRITT, F-XLN, CHLKY, F/TRS OF OOL, TRS OF FOSS FRAGS, DLL SPOTTY YEL FLO TO DLL FLO THRU, POSS PR MICRO-PP TO OOLICASTIC POR, NO VIS CUT OR SHOW
SRVY 4632' @ 2.5 DEG
SH- GY DRK GY TO BLK, FRM BRITT TO SFT, SMTH TO GRNY, SILTY IP, CALC
LS- GY OFF WHT TO LT TN, HRD DNS TO BRITT, F-XLN, SUCRO TO V/CHLKY, F/TRS OF FOSS FRAGS, SCATT OOL IP SME SHADOW, F/TRS OF TN OFF WHT CHRT SME WITH OOL, A FEW TRS OF QRTZ-XLS POSS FRAC, DLL YEL MIN FLO, POSS POR FRAC POR IN CHRT, NO VIS POR, NO VIS CUT OR SHOW

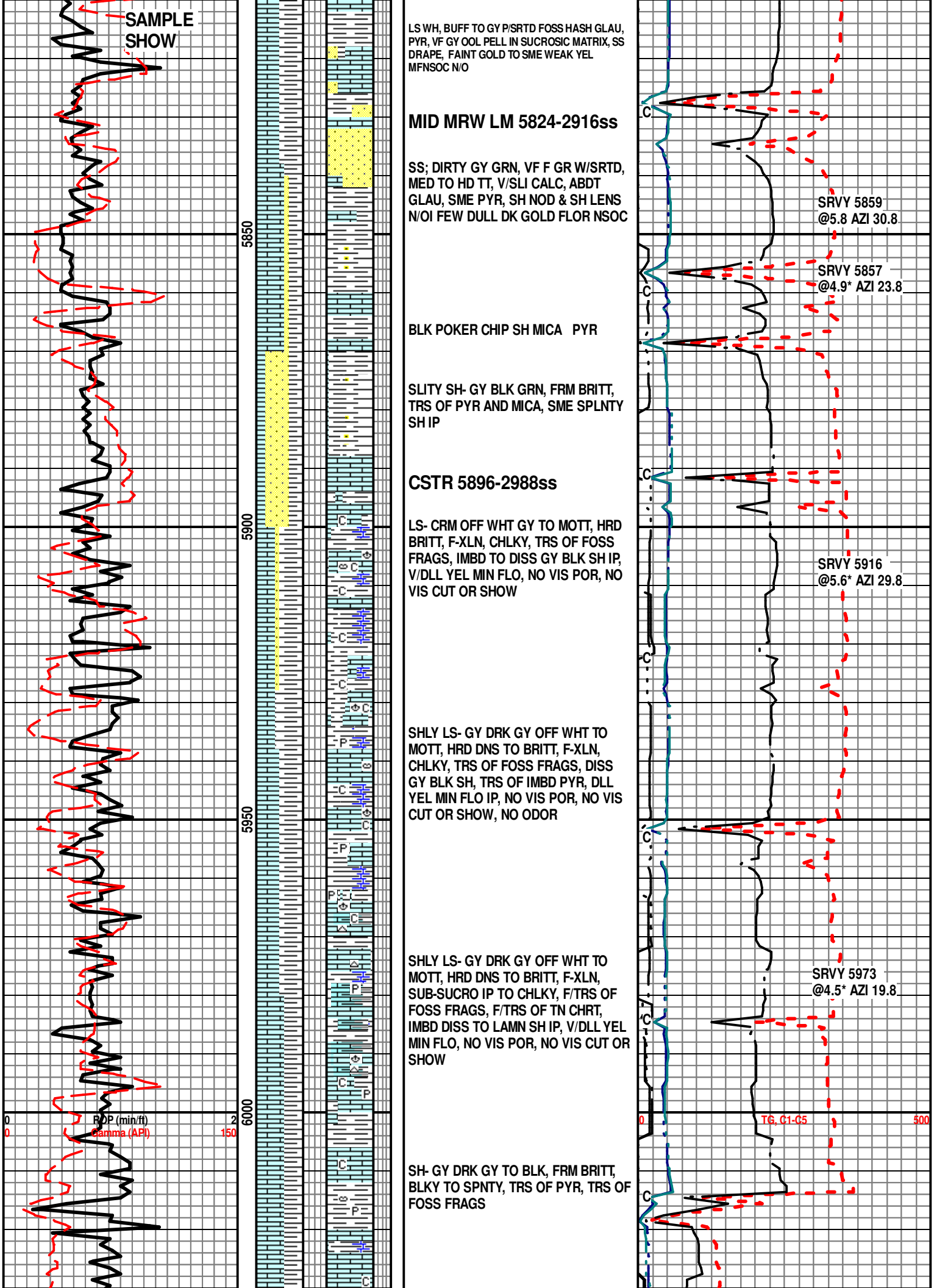

25K WOB
115 RPM
103 STRK
0
ROP (min/ft)
2
0
Gamma (API)
150
4750
4800
4850
4900
4-29-19
LS- CRM OFF WHT LT TN TO LT GY, HRD DNS TO BRITT, F-XLN TO SLI RE-XLN, SUCRO TO CHLKY, F/TRS OF MICRO OOL, TRS OF QRTZ-XLS, SME TN CHRT IP, LOOKS SLI WEATHRD, DLL YEL MIN FLO, POSS PR MICRO VUG POR, NO VIS CUT OR SHOW
SRVY 4730'
@ 3.0 DEG
LS; DIRTY GY/BUFF S-CHLKY I.P. TO DK GY-TN HD DNS XLN, SHLY, TR CHT
LS; DK TN SLI GY , HD DNS VF XLN, SHLY, SME LT-GYISH-BUFF S-CHLKY W/ VF FOOS DEBR N/O M DK PURPL, SCATTDK GOLD MFNSOIC
STARK SH 4798-1890ss
DK GY TO BLK CARBY SH, MICA, TR LT GRN
SWOPE 4812-1904ss
0
TG, C1-C5
500
SRVY 4828'
@3.2* AZI=59.8
LS; LT SLI GYISWH, S-CHLKY BIO//VF OOL, PRY, TR LY CRM S-CHLKY W/ FOOL, TR SILIC REPLC FOISS, N/O, DK PURPL MFNSOC
LS; LT GYISH-BUFF, S-CHLKY, VF F OOL, SME TRACE FOSS, V/SLI SHLY, N/O DK PURPL TO FAINT GOLD MFNSOC
LS; LT CRM-BUFF, WEATHD APPR, SME BIOSPARITIC//F-OOL TR DK BRN SPARRY VF F OOLCAS,, N/O, FAINT GOLD MIN FLOR NSOC
LS; LT TN SPARITIC OOLCAS, THIN RIM COIAT CRM-WH CHLK, N/O MFNSOC
SRVY 4919'
@3* AZI 53.8
LS; CRM F-OOL, COMNGLD W/ VF OOL


GLAU, GY FOSS DEBR IN CHLK, ABDT VF BLK PELL, N/O, DK PURPL TO DK GOLD MFNSOC
SH; DK GY GY, CALC, SME PYRITIC
LS; CRM-GY VF FOSS CHLKY HASH GLAU, MFNSOC
PLSNT SH 4982-2074ss
SH; GY LTGY LMY FOSS IMBD PYR
MARMATON? 5003-2095ss
LS; CRM CHLKY, GY FOSS & INTRUS, TR STYOLITIC, NO SHOW
LS; TR DK BRN DETRIT, FOSS, SME VF SNDY W/ CRIN FOS
LS; CRM CHLKY, PYR TOI LT GYISH DNSW, IMBD VF CRM FOSS PCES, SMEVF OOL, N/O MFNSOC
SH; GY DK GY BLKY LMY
LS; LT TN/BUFF, SPARITIC XLN, FOSS, SCATT WEAK GOLD FLOR N/O NSOC
SH; DK GY TO BRN, BLKY CALC, SME CARBY, MICA
LS; LT TN HD DNSVF XLN, SHLY, SHDW
FOSS, WH CHLK, N/O, MFNSOC
4950
5000
5050
5100
ROP (min/ft)
Gamma (API)
0
150
2
TG, C1-C5
500
C
SRVY 5107
@4* AZI 51.8


0
ROP (min/ft)
2
0
Gamma (API)
150
5200
5250
5300
5350
BLK BRN CARBY SH
CHEROKEE? 5174-2266ss
LS;L V//LT BRN-BUFF, WEATHD VF F OOL, & FOSS IP, TR DK BRN RGH TXT W/BLK PELL, MFNSOC N/O
SRVY 5200
@3.9* AZI 52.8
0
TG, C1-C5
500
SH; DULL BLK DK GY CARBY
LS; BRN, FOO-XLN, SHLY
SH; DULL DK GY, BLK, CARBY
LS; GY-TN, HD DNS XLN SHLY, PYR, TR CRS CRINOIDAL MFNSOC
SH; BLK, GY. SFT CALC, CARBY, INCRS MICA
SRVY 5295
@4* AZI 50.8
LS; GYISH BRN, HD W/MICRO OOL, IP, ABDT GY DK GY SHLY XLN, FAINT GOLD FLOR NSOC
LS; LT GYISH BRN TN HD DNS XLN W/SHDW FOSS INCRS GY FRM ERTY NO SHOW
SH; BLK, DULL DK GY CARBY
SVY 5351
@3.8* AZI 52.8
LS- CRM GY MOTT, HRD BRITT, F-XLN,


CHLKY, DISS GY BLK SH IP, V/DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW
ATOKA 5393-2485ss
ROP (min/ft)
0
Gamma (API)
150
DINKING W/WOB & RPM
5400
LYMY CARB SH- ALTERNATING CARB SH W/ CHLKY GY TO OFF WHT LS
0
TG, C1-C5
500
CTCH, WOO
CARB SH- GY DRK GY TO BLK, FRM BRITT TO SFT IP, GRNY
SVY 5443
@3.5* AZI 49.8
5450
SH- GY DRK GY TO BLK, FRM BRITT TO SFT, GRNY BLKY, CARB TO CALC
SH- GY DRK GY TO BLK, CARB STRNG OF OFF WHT TO GY LS CHLKY, DLL MIN FLO IP, SME GY DRK GY CHRT IP
5500
SVY 5506
@3.3* AZI 42.8
SH- BLK DRK GY CARB,
GATE LEFT OPEN ON FLO TROUGH
SH- GY DRK GY TO BLK, CRAB TO CALC
SVY 5537
@3.2* AZI 44.8
5550
SH- BLK CARB, GRNY BLKY
C


GAS ODOR
0
ROP (min/ft)
2
0
Gamma (API)
150
5600
5650
5700
5750
5800
POSS CHANNEL
EDGE FILL
0
ROP (min/ft)
2
0
Gamma (API)
150
SH- GY DRK GY TO BLK, FRM BRITT TO SFT, SMTH BLKY TO GRNY, SILTY IP, CARB TO CALC, PYR IP, GAS ODOR
LYMY SH- GY DRK GY TO BLK, FRM BRITT, SMTH BLKY TO GRNY, SILTY, STRNGS OF GY DRK GY LS, SLI CHLKY, SPOTTY DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW
LYMY SH- GY DRK GY TO BLK, FRM BRITT, SMTH BLKY TO GRNY, TRS OF PYR NODS, STRNGS OF OFF WHT GY DRK GY LS, CHLKY, SPOTTY DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW
MORROW 5668-2760ss
SLTST; TR SS;, ASH GY/WH, GRITTY SILIC CMT, MED TT, CARB LENS & PCES, TR MICA, PYRIITIC IMBD CARB PLANT MATL, PYRITIC CLSTRS, TR CLN WH OFF WH VF F GR SILIC CLSTRS TR W/CARB MATERAL N/O , BLACK FLOR , NSOC
LS BRN MICRO FOSS MISMASH, SME DK GY MUDST
SH; DK GY BLKL, SME PLATY, SMEBLKY, MICA, SME W/PALE MICRO GLAU IMBD
CRM TO MOTT BLK P/SRT FOSS-HASH, VF BLK PELL BLK FLOR, NSOC
LS;WH, OFF WH, CRM, ABDT FOSS & FOSS FRAGS, CHOR, GLAU, SME VF GY PELL , BUFF SILIC SLST, SCATT INTR FOISS BRN STNG, PRED BLK TO PURPL FLOR, N/O SME DK YEL FLOR, FLASH MILKY STRMG CUT
SRVY 5598
@2.8* AZI 39.8
0
TG, C1-C5
500
C
C
C
C
C
C
C
RE-SET AUTO ZERO ON RIGROOSTER DRIFTED TO -258 SET ON AUTO ZERO EVERY CONN
SRVY 5692
@3.9* AZI
26.8
SRVY 5785
@5.8* AZI 30.8
0
TG, C1-C5
500



LS WH, BUFF TO GY P/SRTD FOSS HASH GLAU, PYR, VF GY OOL PELL IN SUCROSIC MATRIX, SS DRAPE, FAINT GOLD TO SME WEAK YEL MFNSOC N/O

MID MRW LM 5824-2916ss

SS; DIRTY GY GRN, VF F GR W/SRTD, MED TO HD TT, V/SLI CALC, ABDT GLAU, SME PYR, SH NOD & SH LENS N/OI FEW DULL DK GOLD FLOR NSOC

SRVY 5859 @5.8 AZI 30.8

SRVY 5857 @4.9* AZI 23.8

BLK POKER CHIP SH MICA PYR

SLITY SH- GY BLK GRN, FRM BRITT, TRS OF PYR AND MICA, SME SPLNTY SH IP

CSTR 5896-2988ss

LS- CRM OFF WHT GY TO MOTT, HRD BRITT, F-XLN, CHLKY, TRS OF FOSS FRAGS, IMBD TO DISS GY BLK SH IP, V/DLL YEL MIN FLO, NO VIS POR, NO VIS CUT OR SHOW

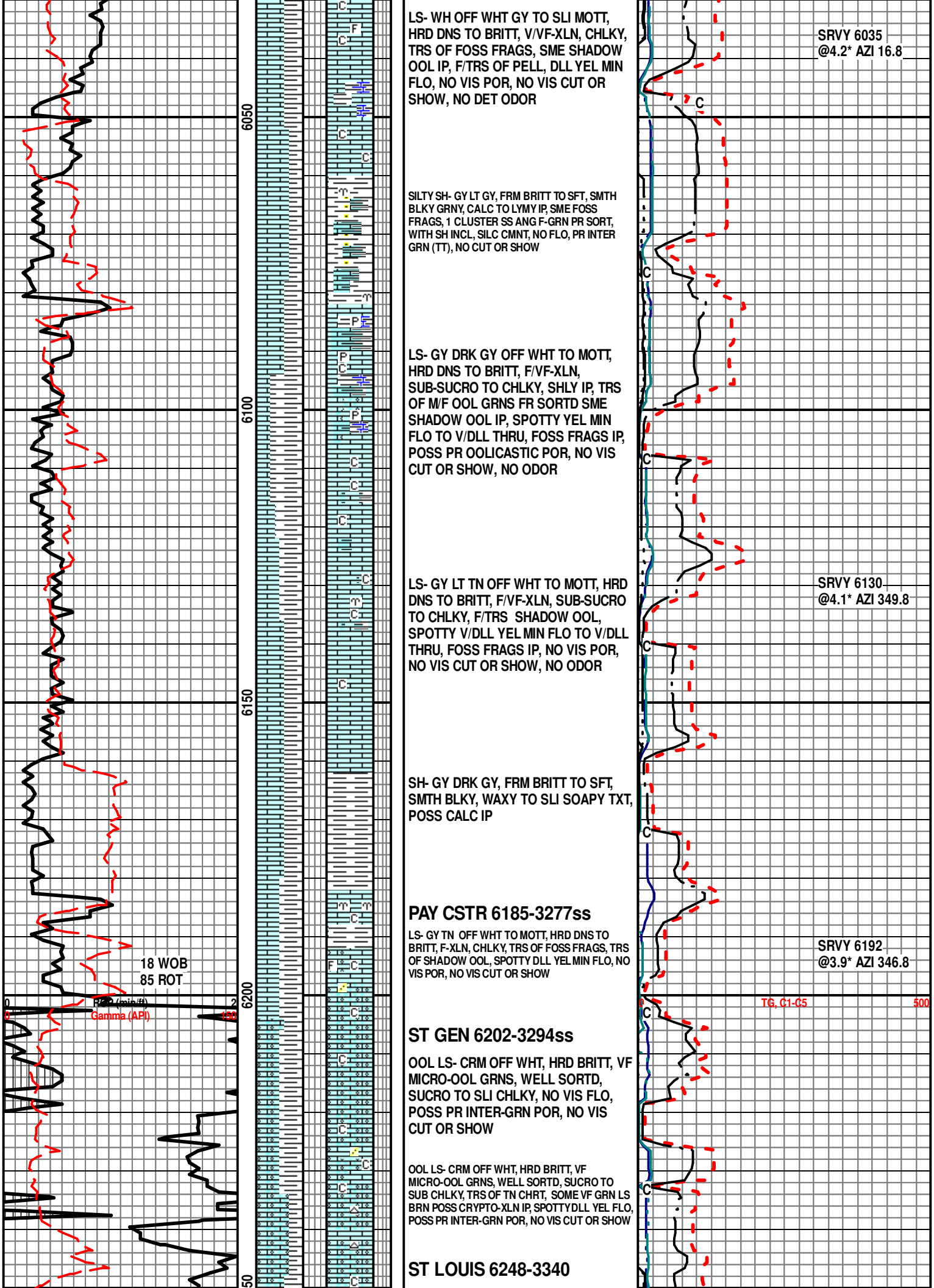
SRVY 5916 @5.6* AZI 29.8

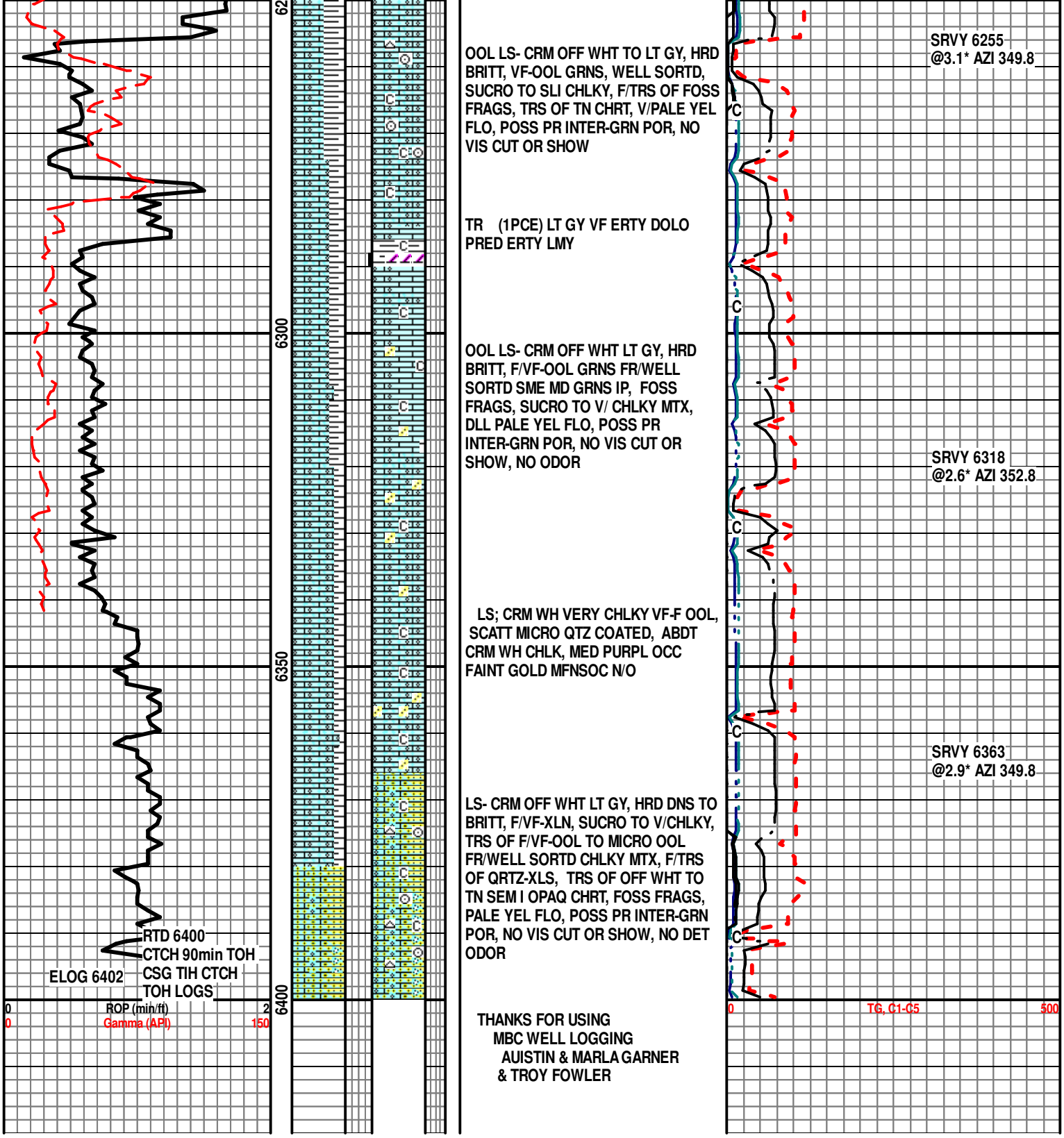
SHLY LS- GY DRK GY OFF WHT TO MOTT, HRD DNS TO BRITT, F-XLN, CHLKY, TRS OF FOSS FRAGS, DISS GY BLK SH, TRS OF IMBD PYR, DLL YEL MIN FLO IP, NO VIS POR, NO VIS CUT OR SHOW, NO ODOR

SHLY LS- GY DRK GY OFF WHT TO MOTT, HRD DNS TO BRITT, F-XLN, SUB-SUCRO IP TO CHLKY, F/TRS OF FOSS FRAGS, F/TRS OF TN CHRT, IMBD DISS TO LAMN SH IP, V/DLL YEL MIN FLO, NO VIS POR, NO VIS CUT OR SHOW

SRVY 5973 @4.5* AZI 19.8

SH- GY DRK GY TO BLK, FRM BRITT, BLKY TO SPNTY, TRS OF PYR, TRS OF FOSS FRAGS


6050
6100
6150
6200
6250
LS- WH OFF WHT GY TO SLI MOTT, HRD DNS TO BRITT, V/VF-XLN, CHLKY, TRS OF FOSS FRAGS, SME SHADOW OOL IP, F/TRS OF PELL, DLL YEL MIN FLO, NO VIS POR, NO VIS CUT OR SHOW, NO DET ODOR
SRVY 6035
@4.2* AZI 16.8
SILTY SH- GY LT GY, FRM BRITT TO SFT, SMTH BLKY GRNY, CALC TO LYMY IP, SME FOSS FRAGS, 1 CLUSTER SS ANG F-GRN PR SORT, WITH SH INCL, SILC CMNT, NO FLO, PR INTER GRN (TT), NO CUT OR SHOW
LS- GY DRK GY OFF WHT TO MOTT, HRD DNS TO BRITT, F/VF-XLN, SUB-SUCRO TO CHLKY, SHLY IP, TRS OF M/F OOL GRNS FR SORTD SME SHADOW OOL IP, SPOTTY YEL MIN FLO TO V/DLL THRU, FOSS FRAGS IP, POSS PR OOLICASTIC POR, NO VIS CUT OR SHOW, NO ODOR
LS- GY LT TN OFF WHT TO MOTT, HRD DNS TO BRITT, F/VF-XLN, SUB-SUCRO TO CHLKY, F/TRS SHADOW OOL, SPOTTY V/DLL YEL MIN FLO TO V/DLL THRU, FOSS FRAGS IP, NO VIS POR, NO VIS CUT OR SHOW, NO ODOR
SRVY 6130
@4.1* AZI 349.8
SH- GY DRK GY, FRM BRITT TO SFT, SMTH BLKY, WAXY TO SLI SOAPY TXT, POSS CALC IP
PAY CSTR 6185-3277ss
LS- GY TN OFF WHT TO MOTT, HRD DNS TO BRITT, F-XLN, CHLKY, TRS OF FOSS FRAGS, TRS OF SHADOW OOL, SPOTTY DLL YEL MIN FLO, NO VIS POR, NO VIS CUT OR SHOW
SRVY 6192
@3.9* AZI 346.8
18 WOB
85 ROT
ROP (min/ft)
Gamma (API)
TG, C1-C5
500
ST GEN 6202-3294ss
OOL LS- CRM OFF WHT, HRD BRITT, VF MICRO-OOL GRNS, WELL SORTD, SUCRO TO SLI CHLKY, NO VIS FLO, POSS PR INTER-GRN POR, NO VIS CUT OR SHOW
OOL LS- CRM OFF WHT, HRD BRITT, VF MICRO-OOL GRNS, WELL SORTD, SUCRO TO SUB CHLKY, TRS OF TN CHRT, SOME VF GRN LS BRN POSS CRYPTO-XLN IP, SPOTTY DLL YEL FLO, POSS PR INTER-GRN POR, NO VIS CUT OR SHOW
ST LOUIS 6248-3340


6300
6350
6400
RTD 6400
CTCH 90min TOH
CSG TIH CTCH
TOH LOGS
ELOG 6402
0
ROP (min/ft)
2
0
Gamma (API)
150
OOL LS- CRM OFF WHT TO LT GY, HRD BRITT, VF-OOL GRNS, WELL SORTD, SUCRO TO SLI CHLKY, F/TRS OF FOSS FRAGS, TRS OF TN CHRT, V/PALE YEL FLO, POSS PR INTER-GRN POR, NO VIS CUT OR SHOW
TR (1PCE) LT GY VF ERTY DOLO PRED ERTY LMY
OOL LS- CRM OFF WHT LT GY, HRD BRITT, F/VF-OOL GRNS FR/WELL SORTD SME MD GRNS IP, FOSS FRAGS, SUCRO TO V/ CHLKY MTX, DLL PALE YEL FLO, POSS PR INTER-GRN POR, NO VIS CUT OR SHOW, NO ODOR
LS; CRM WH VERY CHLKY VF-F OOL, SCATT MICRO QTZ COATED, ABDT CRM WH CHLK, MED PURPL OCC FAINT GOLD MFNSOC N/O
LS- CRM OFF WHT LT GY, HRD DNS TO BRITT, F/VF-XLN, SUCRO TO V/CHLKY, TRS OF F/VF-OOL TO MICRO OOL FR/WELL SORTD CHLKY MTX, F/TRS OF QRTZ-XLS, TRS OF OFF WHT TO TN SEM I OPAQ CHRT, FOSS FRAGS, PALE YEL FLO, POSS PR INTER-GRN POR, NO VIS CUT OR SHOW, NO DET ODOR
THANKS FOR USING
MBC WELL LOGGING
AUISTIN & MARLA GARNER
& TROY FOWLER
SRVY 6255
@3.1* AZI 349.8
SRVY 6318
@2.6* AZI 352.8
SRVY 6363
@2.9* AZI 349.8
0
TG, C1-C5
500

BASIC ENERGY SERVICES

1700 S. Country Estates Raod
Liberal, KS 67901
PH (620)-624-2277FAX (620) 624-2280

SERVICE ORDER - 1718 19423 L

Date: 4/27/2019

Well Name:
East Fotk # 34-1

Location:
34-32S-34W

County - State:
Seward, Kansas

RRC #:

Type Of Service:
Z42 - Cement Surface Casing

Customer's Order #:
0

Customer: Merit Energy

Address: liberal.invoices@meritenergy.com
AFE# 63467

As a consideration, the above named Customer agrees to pay Basic Energy Services In accord with the rates and terms stated in Basic Energy Services current price lists. Invoices are payable NET 30 (SEE 10.2) after date of invoice. Upon Customer's default in payment of Customers account by such date, Customer agrees to pay interest thereon after default at 18% per annum. In the event it becomes necessary to employ an attorney to enforce collection of said account, Customer agrees to pay all the collection costs and attorney fees. These terms and conditions shall be governed by the laws of the state where services are performed or equipment or materials are furnished.

Basic Energy Services., warrants only title to the products, supplies and materials and that the same are free from defects in workmanship. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, MERCHANTABILITY,FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Basic Energy Services., liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, product liability, breach of warranty or otherwise) arising out of the sale or use of any products, supplies, or materials upon their return to Basic Energy Services. is expressly limited to the replacement of such products, supplies or materials or , at Basic Energy Services. option, to the allowance to the Customer of credit for the cost of such items. In no event shall Basic Energy Services be liable for special, indirect, punitive or consequential damages.

CODE	QTY	UOM	DESCRIPTION	PRICE	TOTAL
CI101	415	Sk	'A-Con' Blend	18.60	7719.00
CL110	165	Sk	Premium Plus Cement	16.30	2689.50
CC102	249	Lb	Celloflake	3.70	921.30
CC109	1485	Lb	Calcium Chloride	1.05	1559.25
CC201	415	Lb	Gilsonite	0.67	278.05
CF253	1	Ea	Guide Shoe - Regular, 8 5/8" (Blue)	380.00	380.00
CF903	1	Ea	8 5/8" Float Collar(Red)	1250.00	1250.00
CF1753	6	Ea	Centralizer, 8 5/8" (Blue)	90.00	540.00
CF105	1	Ea	Top Rubber Cement Plug, 8 5/8"	225.00	225.00
CC131	50	Lb	Sugar	5.00	250.00
E101	180	Mi	Heavy Equipment Mileage	7.50	1350.00
CE240	580	Sk	Blending & Mixing Service Charge	1.40	812.00
E113	1641	Tn/Mi	Proppant and Bulk Delivery Charges, per ton mile	2.50	4102.50
CE202	1	4 Hrs	Depth Charge; 1001'-2000'	1500.00	1500.00
CE504	1	Job	Plug Container Utilization Charge	250.00	250.00
E100	60	Mi	Unit Mileage Charge-Pickups, Small Vans & Cars (one way)	4.50	270.00
S003	1	Ea	Service Supervisor, first 8 hrs on loc.	175.00	175.00
				Book Total:	$24,271.60
				Taxes:	
				Disc. Price:	$15,160.88
			Additional 10% Discount as per Agreement on Cement Services	10% Disc	$1,516.09
				Adjusted Price	**$13,644.79**

PUMP TRUCK NUMBER: 37223 19572 E

DRIVER: Sam Fuller

Victor A Cruz

BASIC ENERGY SERVICES

	YES	NO
THIS JOB WAS SATISFACTORILY COMPLETED	☐	☐
OPERATION OF EQUIPMENT WAS SATISFACTORY	☐	☐
PERFORMANCE OF PERSONEL WAS SATISFACTORY	☐	☐

CUSTOMER OR HIS AGENT

Customer Comments or Concerns:

BASIC ENERGY SERVICES

PRESSURE PUMPING

Liberal Yard #1717 - Phone 620-624-2277 - 1700 S. Country Estates Road, Liberal KS 67901

Job Log

Customer:	Merit Energy	Cement Pump No.:	37223 19572 8HRS	Operator TRK No.:	94245		
Address:	liberal.invoices@meritenergy.com	Ticket #:	1718 19423 L	Bulk TRK No.:	30463 19578 Corey	14355 37724	
City, State, Zip:	AFE# 63467	Job Type:	Z42 - Cement Surface Casing				
Service District:	1718 - Liberal, Ks.	Well Type:	Oil				
Well Name and No.:	East Fotk # 34-1	Well Location:	34-32S-34W	County:	Seward	State:	Kansas

Type of Cmt	Sacks	Additives	Truck Loaded On		
A-Con'Blend	415	3% Calcium Chloride, 1/2# Celloflake, 1# Gilsonite	30463 19578 Corey	Front	Back
Premium Plus Cement	165	2% Calcium Chloride, 1/4# Celloflake	14355 37724	Front	Back
				Front	Back

	Weight #1 Gal.	Cu/Ft/sk	Water Requirements	CU. FT.	Man Hours / Personnel	
Tail 1/Tail 2:						
Tail Stage 1:	12.1	2.41	13.9	1000.15	TT Man Hours:	27
Tail Stage 2:	14.8	1.34	6.33	221.1	# of Men on Job:	3

Time (am/pm)	Volume (BPM)	Volume (BBLS)	Pumps T	Pumps C	Pressure(PSI) Tubing	Pressure(PSI) Casing	Description of Operation and Materials
10:00am							Arrived at location
11:00am							Spot trucks/Rig up
12:30pm							Safety meeting
13:02pm						1500	Pressure test lines to 1500psi
13:03pm	4	10				200	Pump 10bbls of fresh water spacer
13:06pm	5	178				100	Pump lead cement 178bbls from 415sks at 12.1lbs
14:27pm	5	39				1000	Pump tail cement 39bbls from 165sks at 14.8lbs
							Shut down/drop plug/wash pump and lines
							Start Displacement
14:52pm	5	20				50	20bbls gone
14:58pm	5	40				90	40bbls gone
15:04pm	5	60				350	60bbls gone
15:11pm	5	80				550	80bbls gone/Slow down rate
15:15pm	3	98				1000	Bump plug
							Check if float holds
							Got 20bbls of cement to surface
							Rig Down
							Job Completed
							Thanked company man and rig crew

Size Hole	12 1/4	Depth		TYPE		Float Collar	
Size & Wt. Csg.	8 5/8 24#	Depth	1582	Float Collar	1540.76	Depth	
Landing Press 1	1000+	Landing Press 2		Retainer		Depth	
Shoe Jt.	41.24	Type		Perfs		CIBP	

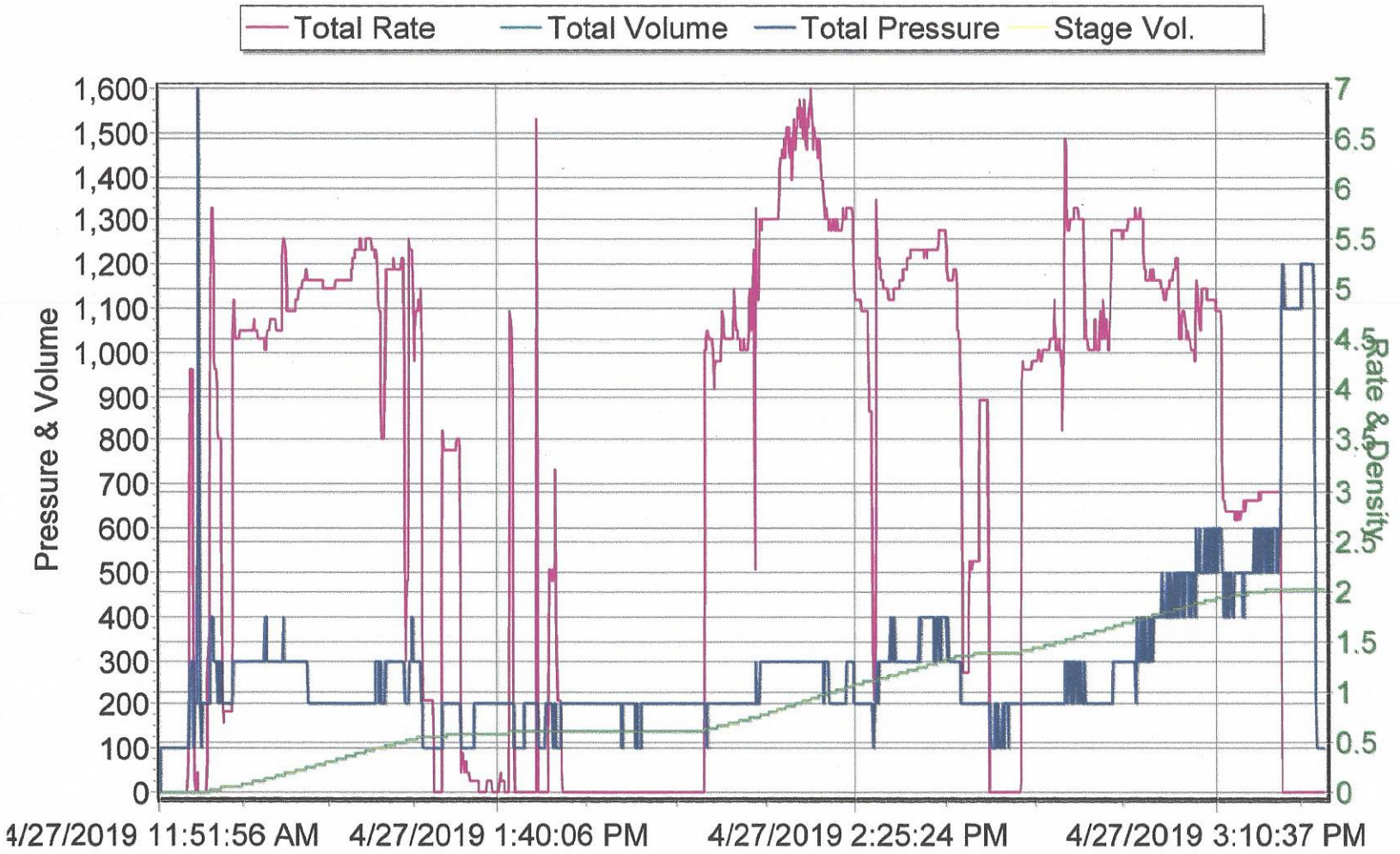
Customer Signature:

Basic Representative: Victor A. Corona

Basic Signature: Victor A. Corona

Date of Service: 4/27/2019

Merit Energy
East Fork 34-1
8 5/8 Surface
4/27/2019



Pumping Order / Mixture

Client:	Merit Energy	Well Name & No:	East Fork 34-1
Date:	4/27/2019	Location Supervisor:	Victor A. Corona
Job:	8 5/8 Surface	COMPANY REP.	Rodney Gonzales

Differential Pressure 1206 psi
Lift Pressure: 500 psi

Recipe

Pressure Test PSI: 1500 **MAX PSI:** 500

10	BBLS OF FRESH WATER SPACER		
178	BBLS LEAD SLURRY YIELD2.41	12.1 LBS	415SKS 13.9G/SK
39	BBLS TAIL SLURRY YIEL 1.34	14.8 LBS	165SKS 6.33G/SK

DROP PLUG/WASH PUMP ON TOP OF PLUG

98.0 BBLS OF DISPLACEMENT
80.0 BBLS @ 5 BPM
18.0 BBLS AT 2-3 BPM TO BUMP PLUG

DISP PLUG WITH 98 BBLS OF H20