

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 # _____

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

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 #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

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 Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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 Geologist Report / Mud Logs <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				

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: <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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Merit Energy Company, LLC
Well Name	DANIELS 1-28
Doc ID	1515137

All Electric Logs Run

BOREHOLE COMPENSATED SONIC LOG
COMPENSATED NEUTRON PEL DENSITY MICRO LOG
COMPOSITE LOG
MICROLOG
PHASED INDUCTION SHALLOW FOCUSE SP LOG

Form	ACO1 - Well Completion
Operator	Merit Energy Company, LLC
Well Name	DANIELS 1-28
Doc ID	1515137

Tops

Name	Top	Datum
HEEBNER	4156	.
TORONTO	4174	.
LANSING	4208	.
KANSAS CITY	4678	.
HERTHA	4730	.
MARMATON	4832	.
PAWNEE	4932	.
CHEROKEE	4990	.
PAWNEE	4932	.
CHEROKEE	4990	.
ATOKA	5159	.
MORROW	5308	.
CHESTER	5417	.
ST GENEVIEVE	5467	.

LITHOLOGY STRIP LOG

WellSight Systems

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

Well Name: DANIELS 1-28 AFE 65116 MERIT ENERGY CO LLC
 Well Id: API 15-081-22216-01-00
 Location: HASKELL COUNTY, KANSAS USA
 License Number: 32446
 Spud Date: 2-01-2020
 Surface Coordinates: SFC 2193'fel- 2614'fml-SEC 28-T27S-R33W
 BHC
 Bottom Hole Coordinates: STEP WLS -DIL/SP/GR CNL/CAL/PE/BHV SONIC SFC- GR TO SFC'
 Ground Elevation (ft): 2973 K.B. Elevation (ft): 2985
 Logged Interval (ft): 4000 To: 5616 Total Depth (ft): Elog 5604
 Formation: ST LOUIS
 Type of Drilling Fluid: MUDCO JUSTIN WHITING CELL (620)-214-3630

Region: WILDCAT
 Drilling Completed: 2-06-2020

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

OPERATOR

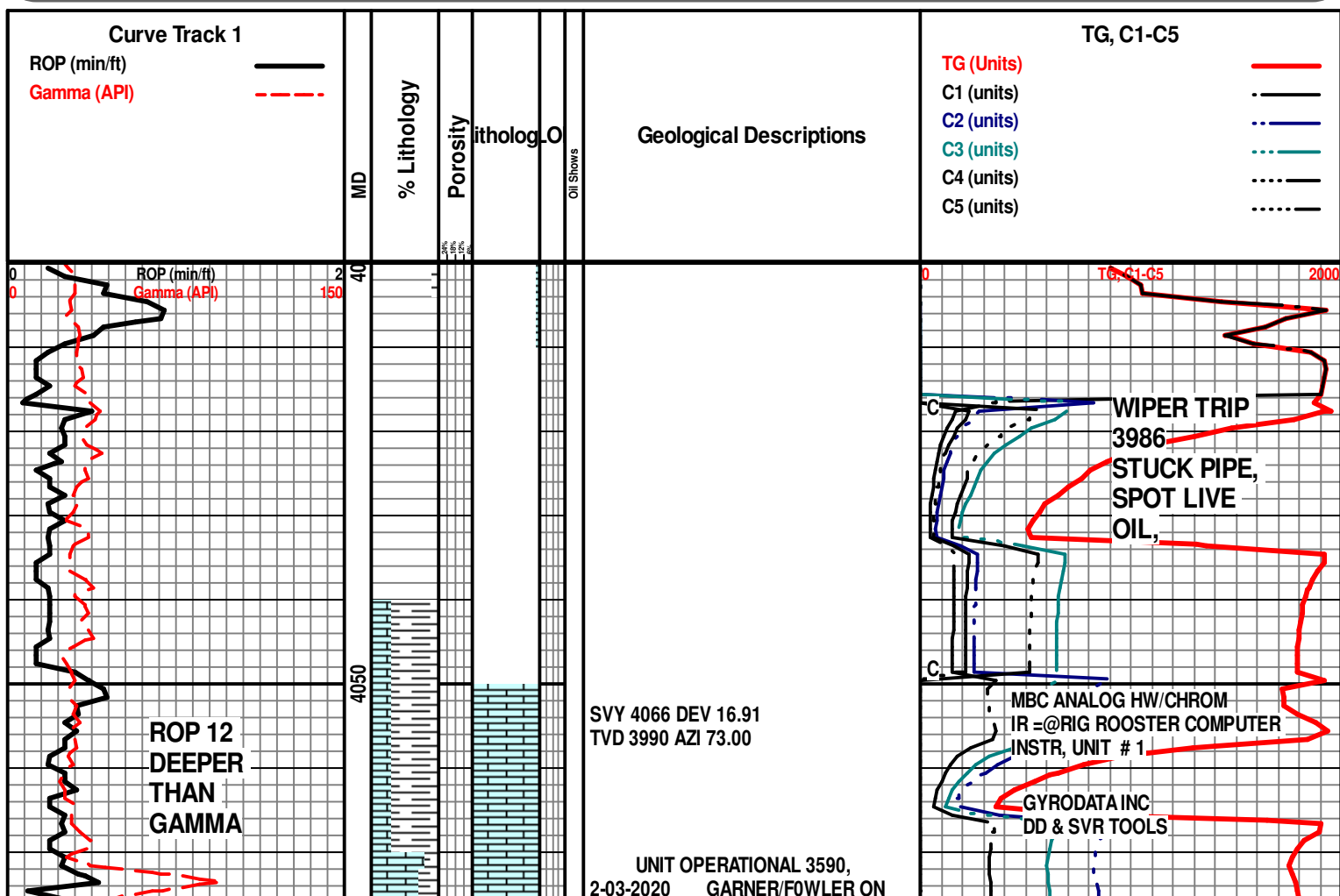
Company: MERIT ENERGY CO LLC
 Address: ATTN MARTIN LANGE GEOLOGY
 13727 NOEL RD STE 1200
 DALLAS, TEXAS 75240

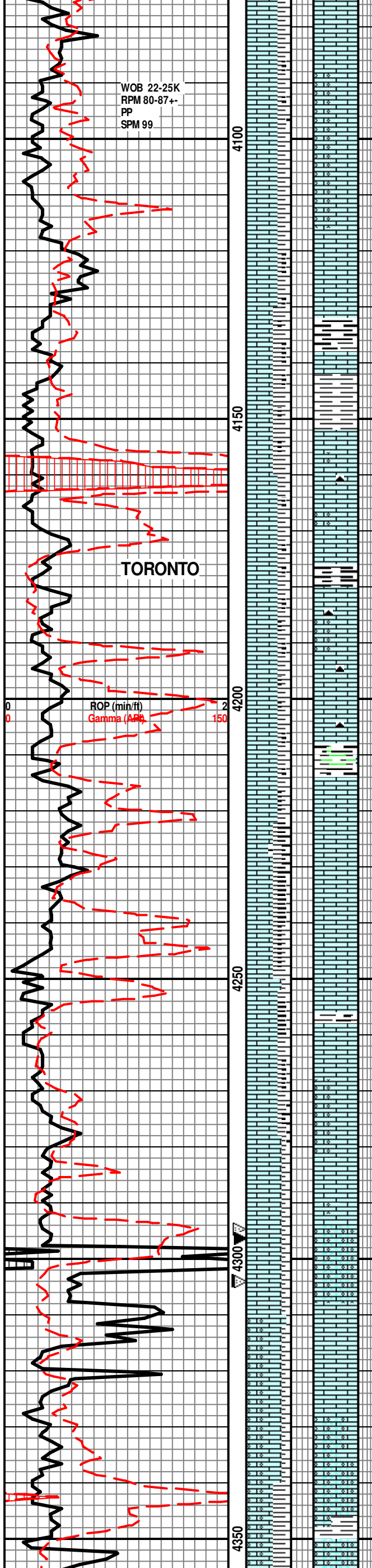
MUDLOGGER

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

ROCK TYPES

	Anhy		Oolitic ls -1		Sndy sh		Red sh-1
	Brec		Stgensndy-arkos		Sltst-1		Stgensndy-arkos
	Cht		New ls-1		Silty-shale		Sndy ool ls
	Coal		Carby shale		Lmy ss-1		Sndy-ls-1
	Congl		Lmy carby sh-3		Arkosic snd		Calc shale
	Shly dolomite		Carb sh		Ss		Granitewash
	Dolo new		Gyp		Grn sh strk		Ls shly-b
	New dolomite 20		Sltst		Grn mott gy sh		Poor sortd ss
	Newdolo ls 2		Salt		Lmy sh-2		Snd-ls-sh
	Ls & ooids		Sndy sh--red		Shale-1		





LOCATION, PLUS SAMPLE HAND,
85/8 CSG 1762', BIT # 2 PDC SMITH
MD5I, 613, 6-15"s JETS

LS; LT BUFFS TO LT TN CHLKY
W//VERY SHALLOW COATED OOLCAS
& OOL, BRN IMBD CARB MATL, PUPRL
FLOR SME FAINT GOLD NSOC

ALL TOPS E-LOG MD

BLK CARB SH
MD 4159 DEV 16.88
TVD 4079 AZI 73.02

HEEBNER 4156-1171ss
LS; CRM/TN BUFF WEATHD APPR,
CHLKY, SHDW FOSS, BLK BANDED
CHLK, IP, TR OPAQ-TN VIT CHT,
MFNSOC

TORONTO 4174-1189ss
SH GRN GRN-GY TO BLK CARBY

LS; CRM BUFF WEATHD APPR,
CHLKY TR VF OOL, TR CRM-WH CHT
W/SHDW FOSS, MFNSOC

OLIVE GRN SH TO BLK CARB, MOTT
GY GRN W/PYR

LANSING MD 4208-1223ss
LS; TR DKS BRN HD DNS XLN, PRED
LT BUFF TO DIRTY GY BRN, CHLKY
SHDW VF OOL & FOSS, IP, NO SHOW

GYTN TRIP FOSS CHT
MD 4253 DEV 16.02
TVD 4169 AZI 72.57
LS; GYISH BRN BUFF CHLKY WEATHD
APPR, W/SHDW FOSS, SME BUFF
F-XLN W/ SHDW FOSS,

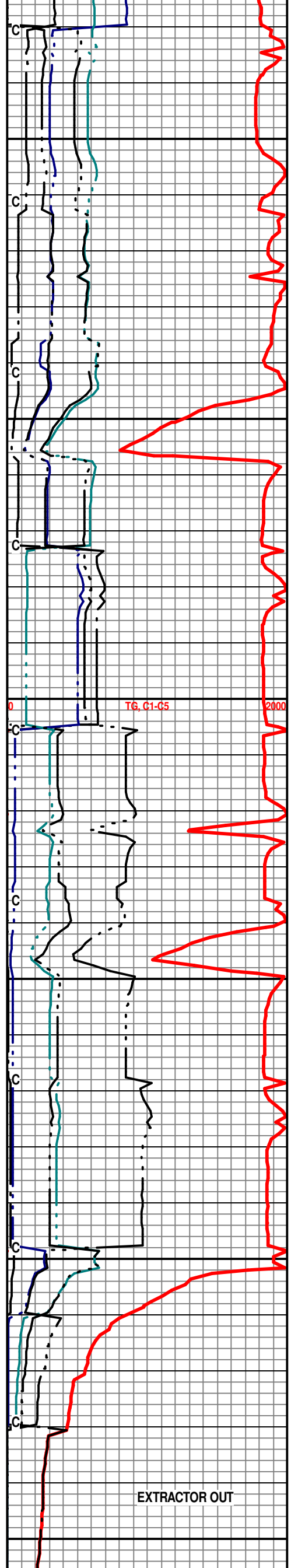
LS; LT TN MOTT VF F OOL & FOSS,
WH OOL CHT, WH CHLK W/VF OOL,
SME YELBLUSH FLOR PRED PURPL
TO FAINT GOLD NSOC

SH; GY BLK

LS; OPAQ TN SPARRY VF F OOLCAS
& OOL, SUGARY, DULL GOLD MFNSOC

LANSING B 4349-1364ss

LS; LT TN SME GYISH TINT, VF



SUGARY VF -F-LOWER MED OOLCAS,
WH CHLK, MFNSOC

LS; OPAQ TN SUGARY F/SRTDF VF F
OOLCAS, THIN RIM COAT, PUPLE TO
GOLD MFNSOC

LANSING D 4403-1418ss

SK GY BRN

LS; LT TN P/SRTD VF TO LWR MED
OOLCAS, THJIN RIM COAT, TN/WH
SEMI VIT TO VIT ANG CHT, MFNSOC

MD 4442 DEV 18.99
TVD 4349 AZI 76.17

SH- DRK GY BLK, CARBY

LS- GY OFF WHT LT TN TO MOTT, HRD
DNS, F-XLN, SUCRO TO CHLKY, TRS
OF OOL M/F PR SORTD, DLL YEL MIN
FLO, POSS PR OOLICASTIC POR, NO
VIS CUT OR SHOW

LS- GY OFF WHT LT TN, HRD DNS TO
BRITT, F-XLN, SUCRO TO V/CHLKY,
TRS OF F-OOL GRNS FR SORTD, DLL
PALE YEL MIN FLO, POSS PR
OOLICASTIC POR, NO VIS CUT OR
SHOW

MD 4536 DEV 18.43 TVD
4438 AZI 75.24

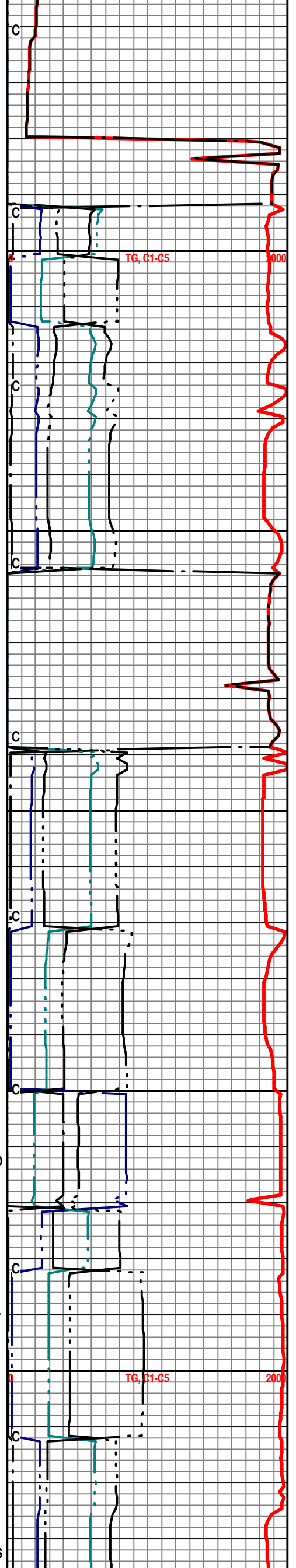
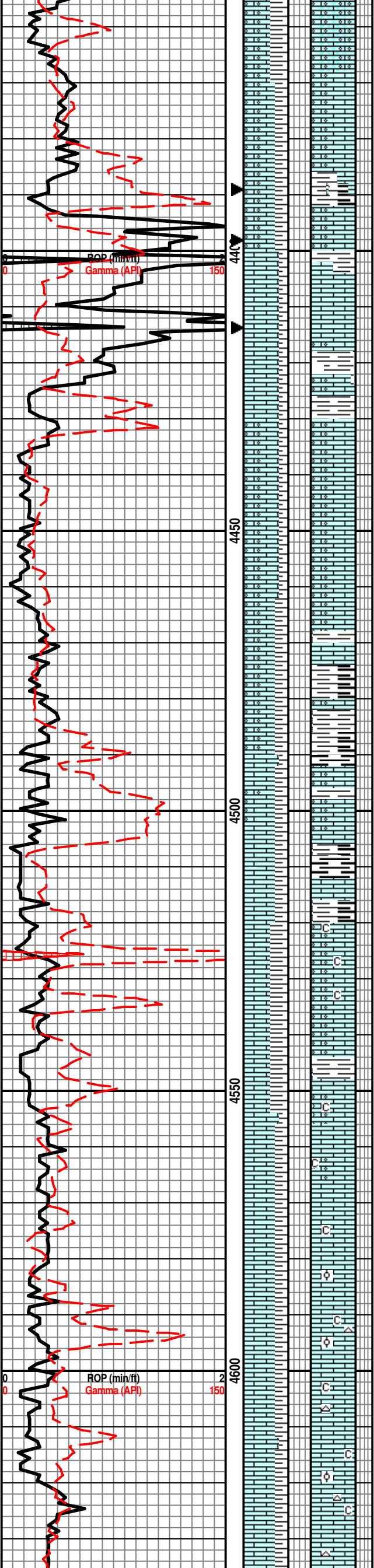
LS- LT GY TN OFF WHT, HRD DNS TO
BRITT, F-XLN, SUCRO V/CHLKY,
M/F-OOL PR SORTD, PALE YEL FLO TO
SPOTTY YEL FLO, PR OOLICASTIC
POR, NO VIS CUT OR SHOW

LS- TN GY OFF WHT TO BUFF, HRD
DNS, F/VF-XLN, SUB-SUCRO TO
CHLKY, TRS OF WHT OFF WHT VIT
CHRT SME W/ FOSS FRAGS, SME OOL
IP, TRS OF IMBD PYR NODS, DLL YEL
MIN FLO, NO VIS POR, NO VIS CUT OR
SHOW

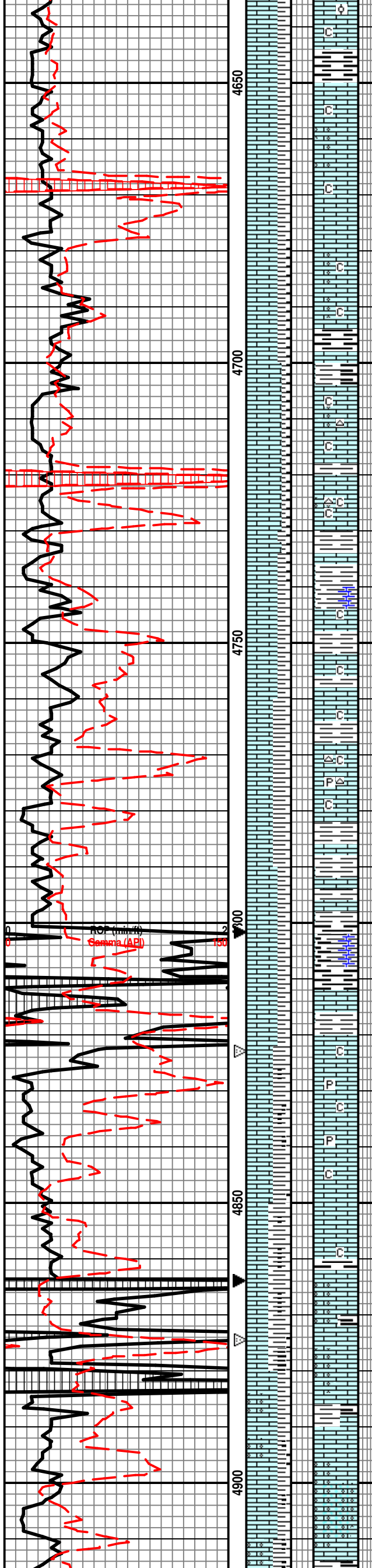
SH- SFT BLK CARB

MD 4630 DEV 17.68 TVD
4528 AZI 75.76

LS- GY OFF WHT TN TO MOTT, HRD
DNS TO BRITT, F-XLN, SUB-SUCRO TO
CHLKY, TRS OF FOSS FRAGS, SCATT
OOL, SFT OFF WHT CHLK, TN OFF
WHT CHRT, PALE YEL MIN FLO, NO VIS
CUT, NO VIS POR, NO VIS SHOW



CUT, NO VIS POR, NO VIS SHOW



SWOPE

LS- TN GY OFF WHT TO SLI MOTT, HRD DNS, F-XLN, CHLKY, TRS OF OOL M/F PR SORTD, F/TRS OF TN CHRT, DLL YEL MIN FLO, POSS PR OOLICASTIC POR IP, NO VIS CUT OR SHOW, NO ODOR

LS- CRM OFF WHT TN LT GY, HRD DNS TO BRITT, F-XLN, SUCRO TO V/CHLKY, TRS OF OOL F-GRN, SME SHADOW OOL, DLL YEL MIN FLO TO SPOTTY YEL FLO, PR OOLICASTIC POR IP, NO VIS CUT OR SHOW, NO ODOR

HUSH SH 4710-1725ss

LS- TN GY OFF WHT, HRD DNS, F/VF, SUB-SUCRO TO CHLKY, TRS OF OOL PR SORTD, TRS OF TN CHRT, DLL YEL MIN FLO, POSS PR OOLICASTIC POR, NO VIS CUT OR SHOW, NO ODOR

**MD 4724 DEV 17.66 TVD
4617 AZI 75.25
HEARTHA 4730-1745**

SH- GY DRK GY BLK, FRM BRITT, SMTH BLKY, SILTY IP, CARB TO CALC,

LS- TN GY OFF WHT MOTT, HRD DNS TO BRITT, F-XLN, CHLKY, TRS OF TN GY CHRT, TRS OF IMBD PYR NODS, FOSS FRAGS, DLL YEL MIN FLO, NO VIS POR, NO VIS CUT OR SHOW, NO ODOR

PLSNTN

SH- GY DRK GY BRN TO BLK, FRM BRITT, BLKY GRNY, SILTY, SOAPY, PYR NODS, CARBY TO CALC IP

**MD 4819 DEV 16.72 TVD
4708 AZI 70.79**

MARM 4832-1839ss

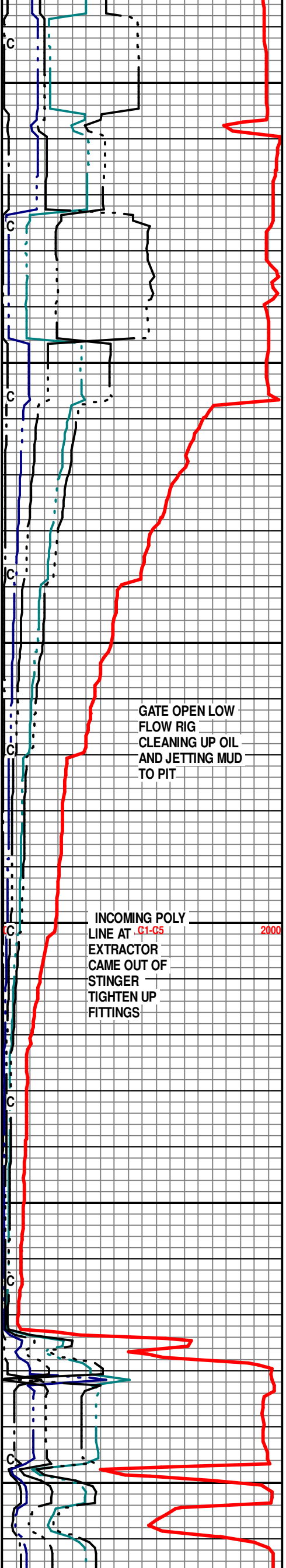
LS- TN GY DRK GY BUFF, HRD DNS TO BRITT, F/VF-XLN GRNY IP, SUCRO TO CHLKY, F/TRS OF FOSS FRAGS, TRS OF IMBD PYR, SCATT TRS MICRO OOL IP, TRS OF LT TN CHRT, DLL YEL MIN FLO, POSS PR MICRO-PP, NO VIS CUT OR SHOW, NO ODOR

SH BLK CARBY

LS; GYISH OOL TO CRM/BUFF VFBIOSPARTIC//OOL, SHLY IP, PURPL SME FAINT GOLD MFNSOC

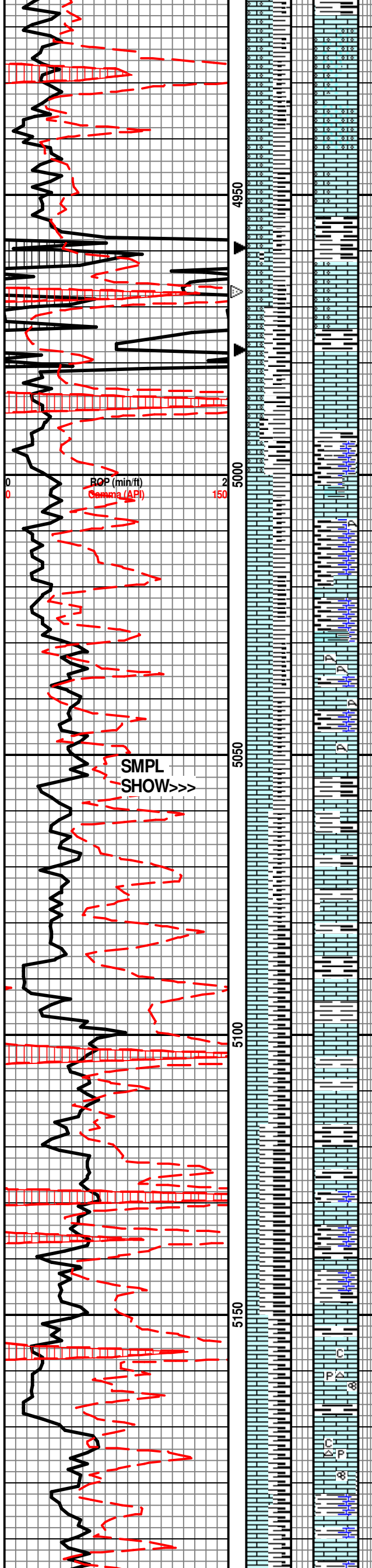
LS; LT TN BUFF SPARRY P/SRTD VF-F-OOL, & OOLCAS, THIN RIM COAT, PURPL TR GOLD MFNSOC

**MD 4913 DEV 16.46
TVD 4798 AZI 71.29**



GATE OPEN LOW FLOW RIG CLEANING UP OIL AND JETTING MUD TO PIT

INCOMING POLY LINE AT C1-C5 EXTRACTOR CAME OUT OF STINGER TIGHTEN UP FITTINGS



PAWNEE 4932-1947ss

LS; WH CHLKYW/OOL MPELL, PRED
LT GYISH CRM VF F OOL, HD DNS IP,
MFNSOC

LS; BRN TN BIOSPARTIC//OOL, TN
CHT, CHLKY OOL IP, MFNSOC

BLK SH

LS; MED TN HD VF XLN SHLY
LS; GY WH HD SHLY VF F OOL, SME
TR CHLKY GYWH W/PELL, MFNSOC

BLK CARB SH PYR,

**CHEROKEE MD
4990-2005ss**

**MD 5008 DEV 17.04
TVD 4889 AZI 65.25**

LS; CRM WH W/GY FOSS DEBRIS,

SH; GY DK GY LMY IMBD FOSS
PCES, SME BLK CARB

LS; GY MED HD DNS SHLY MICRO
FOSS TO LT TN W/CORAL FRAGS,
W/SPAR FILL, PURP TO FNT YEL
MFNSOC

LS; TR (1) LS; VF OOL MISHMASH
W/VF GAS BUBLS, FAINT GOLD FLOR,
FLASH THIN MILKY BLU-WH CUT

BLK CARBY SH SME DK B RN FLAKEY

5085 CTCH WIPER TRIP

LYMY SHALES- GY BLK, FRM BRITT,
GRNY, BLKY SMTH, CARBY TO CALC,
LS- GY OFF WHT TO MOTT, HRD DNS
BRITT, F-XLN, CHLKY, DLL YEL MIN
FLO, NO VIS POR, NO VIS CUT OR
SHOW

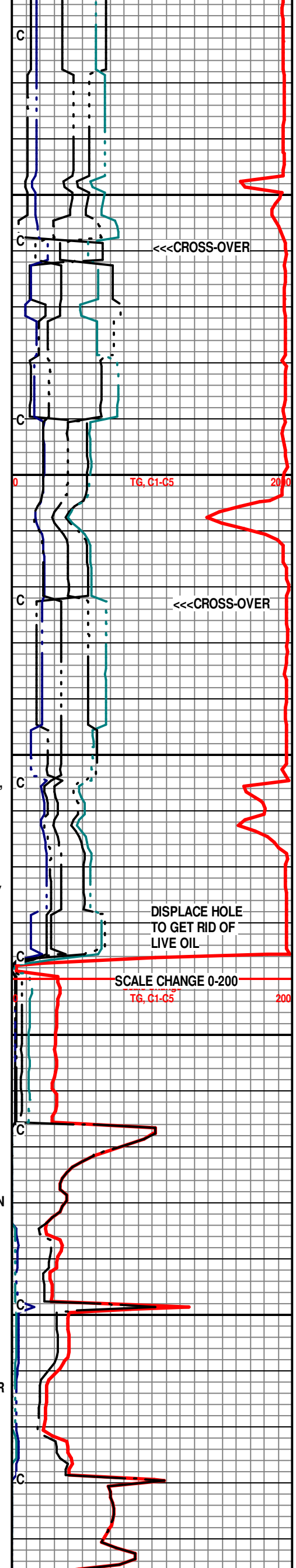
SH- BLK CARB, FRM, GRNY

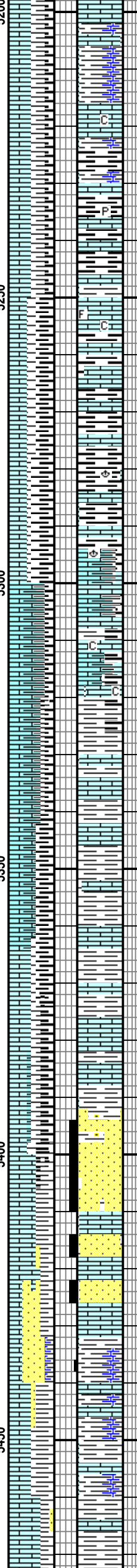
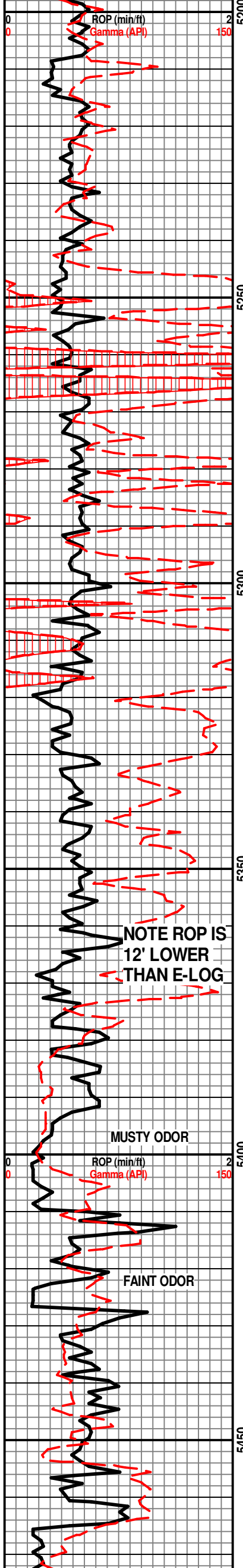
LS- OFF WHT GY, HRD BRITT,
F/VF-XLN, CHLKY, PYR, V/DLL YEL MIN
FLO, NO VIS POR, NO VIS CUT OR
SHOW, NO ODOR

LS- CRM OFF WHT GY TN TO MOTT,
HRD DNS TO BRITT, F/VF-XLN, CHLKY,
TRS OF FOSS FRAGS, TRS OF LT TN
CHRT, TRS OF IMBD PYR, V/DLL YEL
MIN FLO, NO VIS POR, NO VIS CUT OR
SHOW, NO ODOR

ATOKA 5159 -2174ss'

**MD 5195 DEV 14.38
TVD 5069 AZI 63.81**





SH- GY DRK GY BLK, FRM BRITT, CALC, CARBY IP
 LS- OFF WHT GY, HRD BRITT, F-XLN, CHLKY, TRS OF TN CHRT, V/DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

SH- GY DRK GY BLK BRN, FRM BRITT, SMTH BLKY TO GRNY, CARB, SILTY IP, PYR

ATOKA SH 5246 -2261ss

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

SH- DRK GY BLK, FRM BRITT, SMTH BLKY, GRNY, CARBY, CALC IP, F/TRS OF FOSS FRAGS, SHELLS

MORROW 5292' / -2307'

MD 5290 DEV 13.00
TVD 5162 AZI 63.75

LYMY SHALES- GY DRK GY OFF WHT TO MOTT, FRM BRITT, CALC STRNGS, CHLKY, FOSS FRAGS, CARB, TRASHY

MORROW 5308-2323ss

LS- OFF WHT GY DRK GY MOTT, HRD DNS TO BRITT, F-XLN, CHLKY, FOSS FRAGS, V/DLL YEL MIN FLO, NO VIS POR, NO VIS CUT OR SHOW

SH- GY DRK GY BLK, FRM SFT, GUMMY, BLKY, PYR

MD 5384 DEV 11.95
TVD 5253 AZI 64.37

MOR PAY-5353-2398ss

SS- TN GY DRK GY BRN, M/F-GRN, TT TO V/FRI, CONSLD, SUB-RND, CLAC TO SILC CMNT RX TO ACID, INCLUSIONS, IMBD TO DISS SH, DLL YEL FLO, FR/PR INTER-GRN POR, FAST MILKY BLUE FLUSH AND STREAM CUTS, MUSTY ODOR, LOOKS TRASHY

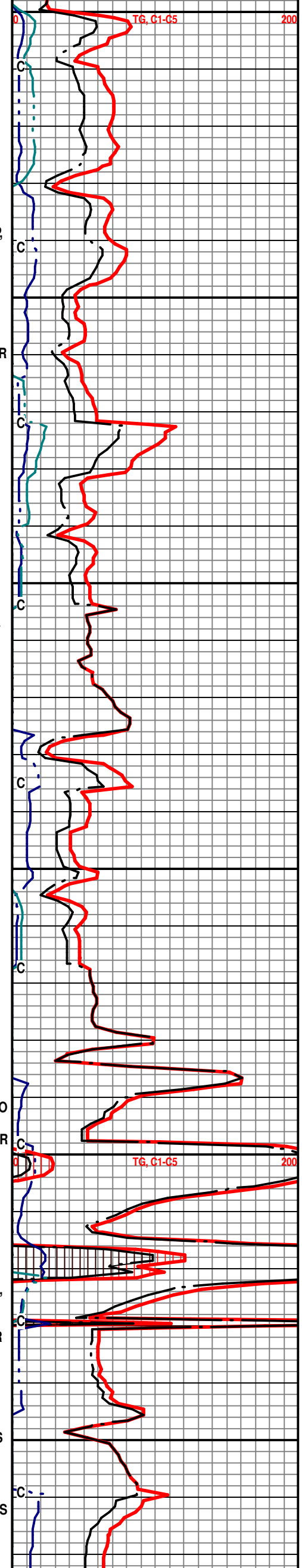
● **CHSTR 5417-2423ss**

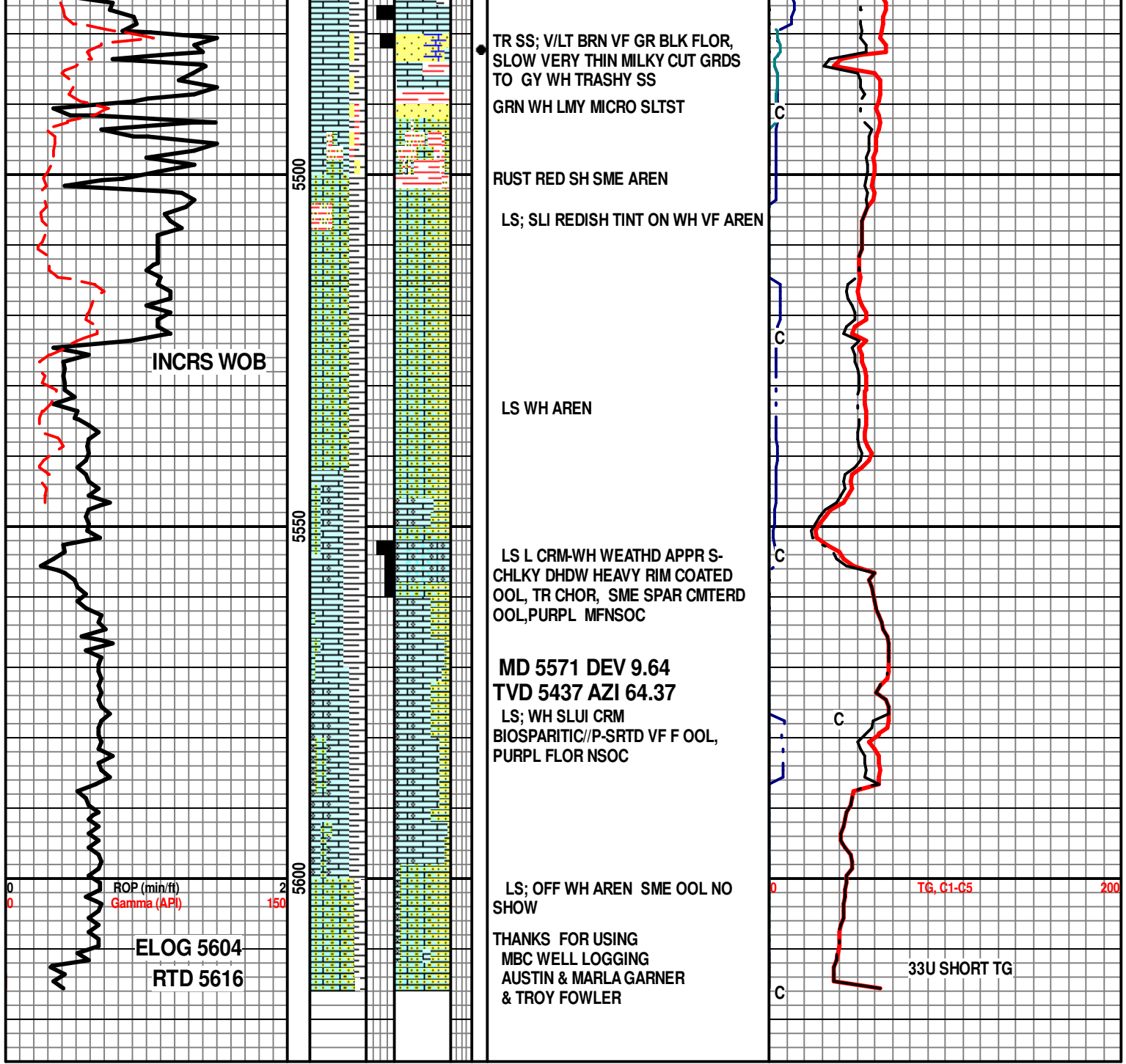
● SS- TN BRN OFF WHT, VF-GRN, TT-FRI, SUB-RND, SME INCLUSION, DISS SH IP, DLL YEL FLO, FR INTER-GRN POR, FAST MILK BLU FLUSH CUT, CLEANER THAN ABOVE, FAINT ODOR

LYMY SH- GY DRK GY, SILTY, FRM BRITT, CHLKY LS STRNGS, SME FOSS FRAGS

LS- OFF WH TN LT GY, HRD DNS TO BRITT, F-XLN, SUCRO TO CHLKY, FOSS FRAGS, PALE DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

ST GEN 5467-2482ss





TR SS; V/LT BRN VF GR BLK FLOR,
SLOW VERY THIN MILKY CUT GRDS
TO GY WH TRASHY SS
GRN WH LMY MICRO SLTST

RUST RED SH SME AREN
LS; SLI REDISH TINT ON WH VF AREN

LS WH AREN

LS L CRM-WH WEATHD APPR S-
CHLKY DHDW HEAVY RIM COATED
OOL, TR CHOR, SME SPAR CMTERD
OOL, PURPL MFNSOC

MD 5571 DEV 9.64
TVD 5437 AZI 64.37
LS; WH SLUI CRM
BIOSPARITIC//P-SRTD VF F OOL,
PURPL FLOR NSOC

LS; OFF WH AREN SME OOL NO
SHOW

THANKS FOR USING
MBC WELL LOGGING
AUSTIN & MARLA GARNER
& TROY FOWLER

INCRS WOB

ROP (min/ft) 2
Gamma (API) 150

ELOG 5604
RTD 5616

TG, C1-C5 200

33U SHORT TG



Merit Energy

Haskell Co., KS

Daniels 1-28

Daniels 1-28

Daniels 1-28

Design: Daniels 1-28

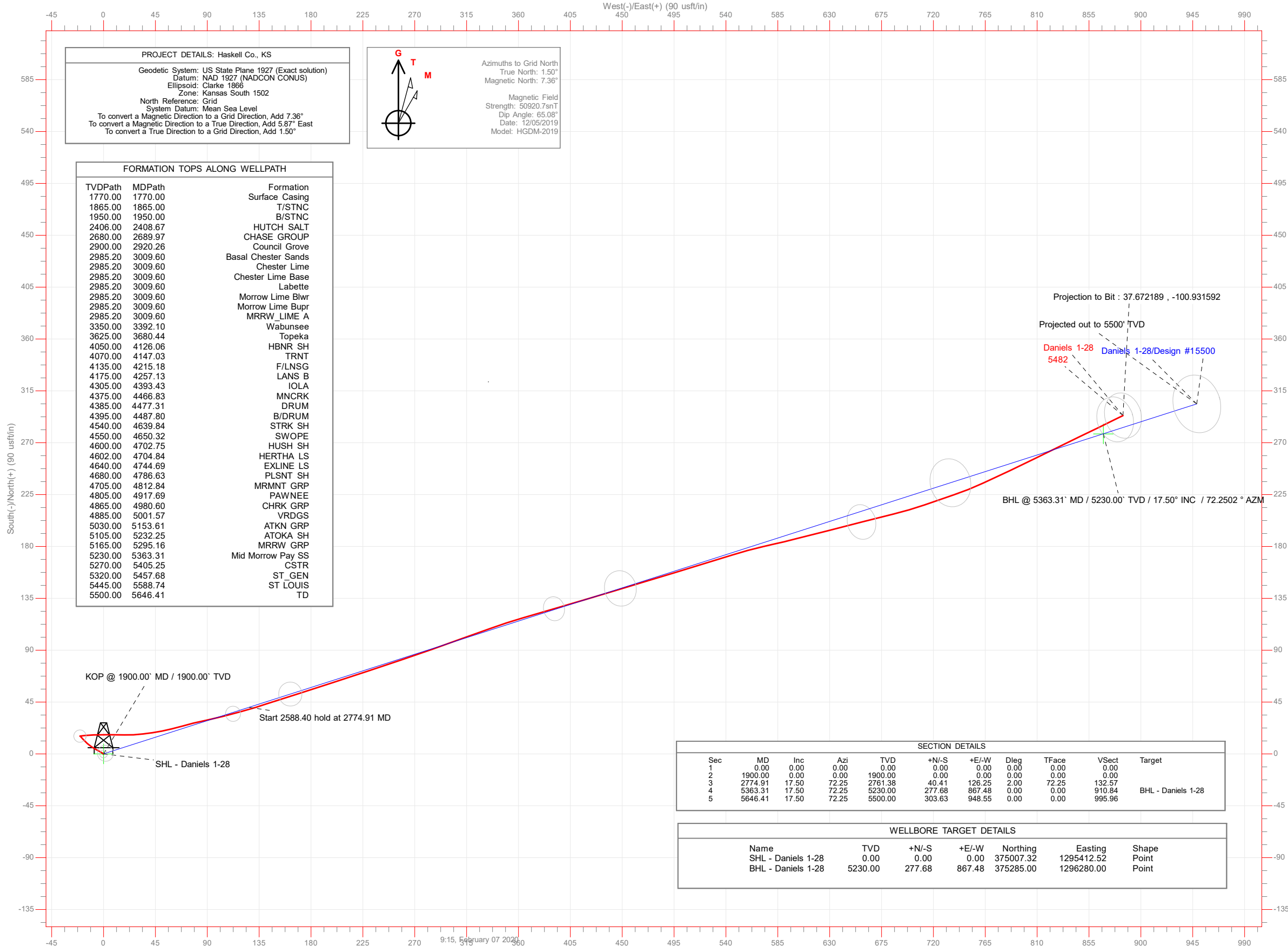
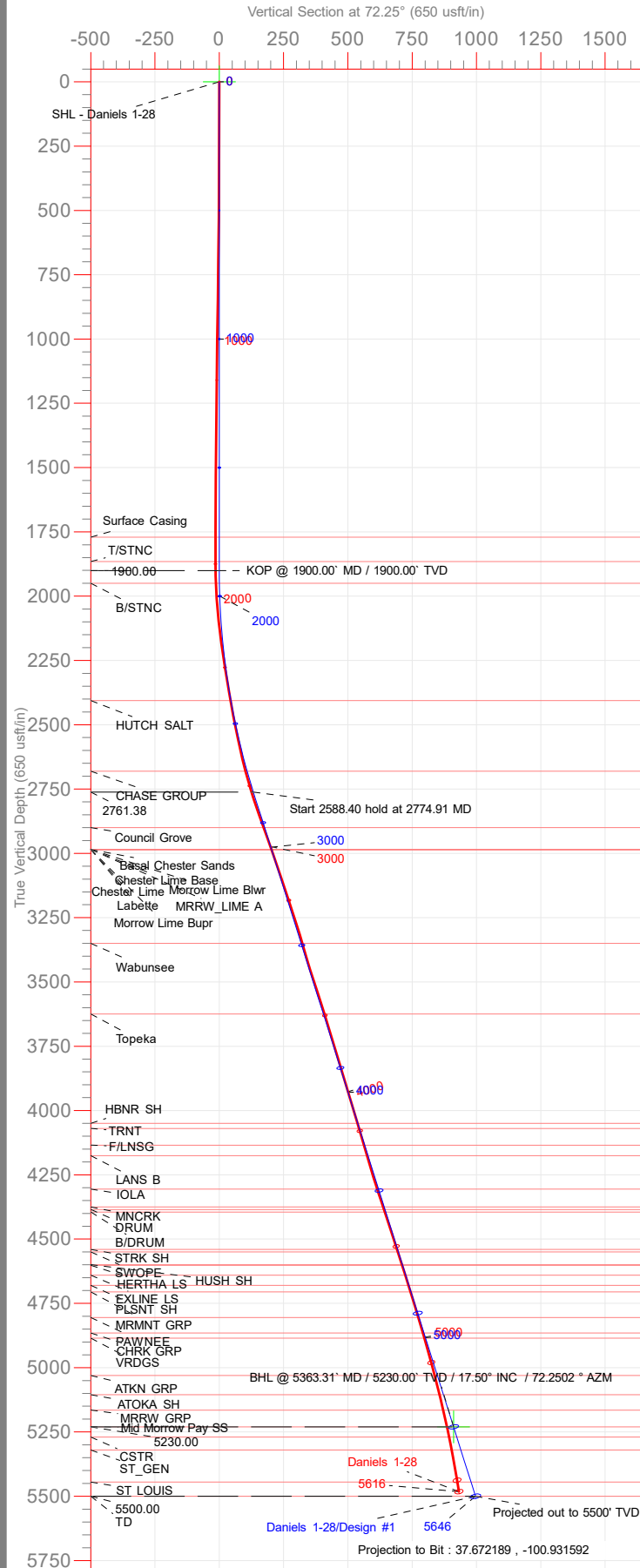
Standard Survey Report

07 February, 2020

gyro/data

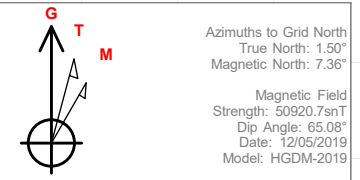
A thick red horizontal bar located at the bottom of the page, underlining the 'gyro/data' logo.

Notice: Section Lines and Hardlines are estimates only and are subject to customer approval



PROJECT DETAILS: Haskell Co., KS

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: Kansas South 1502
North Reference: Grid
System Datum: Mean Sea Level
To convert a Magnetic Direction to a Grid Direction, Add 7.36°
To convert a Magnetic Direction to a True Direction, Add 5.87° East
To convert a True Direction to a Grid Direction, Add 1.50°



FORMATION TOPS ALONG WELLPATH

TVDPath	MDPath	Formation
1770.00	1770.00	Surface Casing
1865.00	1865.00	T/STNC
1950.00	1950.00	B/STNC
2406.00	2408.67	HUTCH SALT
2680.00	2689.97	CHASE GROUP
2900.00	2920.26	Council Grove
2985.20	3009.60	Basal Chester Sands
2985.20	3009.60	Chester Lime
2985.20	3009.60	Chester Lime Base
2985.20	3009.60	Labette
2985.20	3009.60	Morrow Lime Blwr
2985.20	3009.60	Morrow Lime Bupr
2985.20	3009.60	MRRW_LIME A
3350.00	3392.10	Wabunsee
3625.00	3680.44	Topeka
4050.00	4126.06	HBNR SH
4070.00	4147.03	TRNT
4135.00	4215.18	F/LNSG
4175.00	4257.13	LANS B
4305.00	4393.43	IOLA
4375.00	4466.83	MNCRK
4385.00	4477.31	DRUM
4395.00	4487.80	B/DRUM
4540.00	4639.84	STRK SH
4550.00	4650.32	SWOPE
4600.00	4702.75	HUSH SH
4602.00	4704.84	HERTHA LS
4640.00	4744.69	EXLINE LS
4680.00	4786.63	PLSNT SH
4705.00	4812.84	MRMNT GRP
4805.00	4917.69	PAWNEE
4865.00	4980.60	CHRK GRP
4885.00	5001.57	VRDGS
5030.00	5153.61	ATKN GRP
5105.00	5232.25	ATOKA SH
5165.00	5295.16	MRRW GRP
5230.00	5363.31	Mid Morrow Pay SS
5270.00	5405.25	CSTR
5320.00	5457.68	ST_GEN
5445.00	5588.74	ST LOUIS
5500.00	5646.41	TD

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	1900.00	0.00	0.00	1900.00	0.00	0.00	0.00	0.00	0.00	
3	2774.91	17.50	72.25	2761.38	40.41	126.25	2.00	72.25	132.57	
4	5363.31	17.50	72.25	5230.00	277.68	867.48	0.00	0.00	910.84	BHL - Daniels 1-28
5	5646.41	17.50	72.25	5500.00	303.63	948.55	0.00	0.00	995.96	

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
SHL - Daniels 1-28	0.00	0.00	0.00	375007.32	1295412.52	Point
BHL - Daniels 1-28	5230.00	277.68	867.48	375285.00	1296280.00	Point

Company:	Merit Energy	Local Co-ordinate Reference:	Well Daniels 1-28
Project:	Haskell Co., KS	TVD Reference:	RKB @ 2985.20usft (Duke 9 (GE 2973.2' + 12' = 2985.2'))
Site:	Daniels 1-28	MD Reference:	RKB @ 2985.20usft (Duke 9 (GE 2973.2' + 12' = 2985.2'))
Well:	Daniels 1-28	North Reference:	Grid
Wellbore:	Daniels 1-28	Survey Calculation Method:	Minimum Curvature
Design:	Daniels 1-28	Database:	Gyrodata NWDB

Project	Haskell Co., KS		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Kansas South 1502		

Site	Daniels 1-28				
Site Position:		Northing:	375,007.32 usft	Latitude:	37.671320
From:	Map	Easting:	1,295,412.52 usft	Longitude:	-100.934621
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence:	-1.50 °

Well	Daniels 1-28					
Well Position	+N/-S	0.00 usft	Northing:	375,007.32 usft	Latitude:	37.671320
	+E/-W	0.00 usft	Easting:	1,295,412.52 usft	Longitude:	-100.934621
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	2,973.20 usft

Wellbore	Daniels 1-28				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HGDM-2019	12/05/19	5.87	65.08	50,920.66

Design	Daniels 1-28				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	307.91	

Survey Program	Date	02/07/20			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
530.00	1,737.00	Survey #1 (Daniels 1-28)	MWD - OSWG	OSWG MWD - Standard	
1,781.00	5,616.00	Survey #2 (Daniels 1-28)	MWD+HDGM+AX	OSWG MWD + HDGM + Axial Correction	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
SHL - Daniels 1-28										
530.00	0.70	302.10	529.99	1.72	-2.74	3.22	0.13	0.13	0.00	
689.00	1.00	298.10	688.97	2.89	-4.79	5.55	0.19	0.19	-2.52	
846.00	1.30	298.10	845.94	4.37	-7.57	8.66	0.19	0.19	0.00	
1,003.00	1.10	306.10	1,002.90	6.10	-10.36	11.92	0.17	-0.13	5.10	
1,160.00	1.20	309.10	1,159.87	8.03	-12.85	15.07	0.07	0.06	1.91	
1,377.00	1.10	314.10	1,376.83	10.91	-16.11	19.41	0.07	-0.05	2.30	

Company:	Merit Energy	Local Co-ordinate Reference:	Well Daniels 1-28
Project:	Haskell Co., KS	TVD Reference:	RKB @ 2985.20usft (Duke 9 (GE 2973.2' + 12' = 2985.2'))
Site:	Daniels 1-28	MD Reference:	RKB @ 2985.20usft (Duke 9 (GE 2973.2' + 12' = 2985.2'))
Well:	Daniels 1-28	North Reference:	Grid
Wellbore:	Daniels 1-28	Survey Calculation Method:	Minimum Curvature
Design:	Daniels 1-28	Database:	Gyrodata NWDB

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
1,533.00	1.20	322.10	1,532.80	13.24	-18.19	22.49	0.12	0.06	5.13	
1,737.00	0.40	304.10	1,736.78	15.32	-20.09	25.27	0.41	-0.39	-8.82	
1,781.00	0.68	267.24	1,780.77	15.40	-20.48	25.62	0.98	0.64	-83.77	
1,875.00	0.71	85.40	1,874.77	15.42	-20.46	25.61	1.48	0.03	189.53	
1,905.00	1.45	80.95	1,904.77	15.49	-19.90	25.22	2.48	2.47	-14.83	
1,998.00	3.15	84.91	1,997.69	15.90	-16.19	22.54	1.83	1.83	4.26	
2,091.00	6.51	86.62	2,090.34	16.44	-8.38	16.71	3.62	3.61	1.84	
2,185.00	7.94	91.08	2,183.60	16.63	3.43	7.51	1.63	1.52	4.74	
2,280.00	9.65	90.67	2,277.48	16.42	17.96	-4.08	1.80	1.80	-0.43	
2,376.00	9.87	83.38	2,372.09	17.27	34.18	-16.35	1.31	0.23	-7.59	
2,470.00	10.60	79.46	2,464.59	19.78	50.68	-27.83	1.07	0.78	-4.17	
2,563.00	12.14	73.86	2,555.77	24.06	68.48	-39.25	2.04	1.66	-6.02	
2,656.00	13.81	77.96	2,646.39	29.10	88.73	-52.13	2.05	1.80	4.41	
2,750.00	16.18	75.23	2,737.19	34.78	112.37	-67.30	2.63	2.52	-2.90	
2,843.00	19.56	72.40	2,825.69	42.79	139.75	-83.97	3.75	3.63	-3.04	
2,937.00	19.47	72.01	2,914.29	52.39	169.65	-101.67	0.17	-0.10	-0.41	
3,031.00	19.29	72.07	3,002.96	62.01	199.32	-119.17	0.19	-0.19	0.06	
3,126.48	18.97	71.63	3,093.17	71.75	229.06	-136.64	0.37	-0.34	-0.46	
3,221.00	18.15	71.43	3,182.77	81.28	257.59	-153.30	0.87	-0.87	-0.21	
3,315.00	17.51	70.56	3,272.26	90.65	284.81	-169.02	0.74	-0.68	-0.93	
3,408.00	16.00	70.05	3,361.31	99.68	310.05	-183.39	1.63	-1.62	-0.55	
3,502.00	17.54	70.48	3,451.31	108.84	335.58	-197.90	1.64	1.64	0.46	
3,597.00	18.39	73.55	3,541.68	117.86	363.44	-214.34	1.34	0.89	3.23	
3,690.00	17.38	73.62	3,630.18	125.93	390.84	-231.00	1.09	-1.09	0.08	
3,785.00	16.75	73.84	3,721.00	133.75	417.60	-247.32	0.67	-0.66	0.23	
3,879.00	16.60	72.85	3,811.05	141.48	443.44	-262.96	0.34	-0.16	-1.05	
3,972.00	16.67	73.46	3,900.15	149.19	468.92	-278.32	0.20	0.08	0.66	
4,066.00	16.91	73.00	3,990.15	157.03	494.92	-294.02	0.29	0.26	-0.49	
4,159.00	16.88	73.02	4,079.13	164.92	520.77	-309.56	0.03	-0.03	0.02	
4,253.00	16.02	72.57	4,169.28	172.79	546.20	-324.79	0.92	-0.91	-0.48	
4,348.00	16.82	77.20	4,260.41	179.77	572.11	-340.95	1.61	0.84	4.87	
4,442.00	18.99	76.17	4,349.85	186.44	600.22	-359.04	2.33	2.31	-1.10	
4,536.00	18.43	75.24	4,438.89	193.88	629.44	-377.52	0.67	-0.60	-0.99	
4,630.00	17.68	75.76	4,528.26	201.17	657.65	-395.29	0.82	-0.80	0.55	
4,724.00	17.66	76.25	4,617.82	208.07	685.33	-412.89	0.16	-0.02	0.52	
4,819.00	16.72	70.79	4,708.58	216.00	712.24	-429.25	1.96	-0.99	-5.75	
4,913.00	16.46	71.29	4,798.67	224.72	737.62	-443.92	0.32	-0.28	0.53	
5,008.00	17.04	65.25	4,889.65	234.86	763.01	-457.72	1.93	0.61	-6.36	
5,102.00	15.26	64.80	4,979.93	245.90	786.71	-469.64	1.90	-1.89	-0.48	
5,195.00	14.38	63.81	5,069.84	256.21	808.15	-480.22	0.98	-0.95	-1.06	
5,290.00	13.00	63.75	5,162.14	266.14	828.32	-490.04	1.45	-1.45	-0.06	
5,364.96	12.16	64.24	5,235.30	273.30	842.99	-497.21	1.13	-1.12	0.65	

Company:	Merit Energy	Local Co-ordinate Reference:	Well Daniels 1-28
Project:	Haskell Co., KS	TVD Reference:	RKB @ 2985.20usft (Duke 9 (GE 2973.2' + 12' = 2985.2'))
Site:	Daniels 1-28	MD Reference:	RKB @ 2985.20usft (Duke 9 (GE 2973.2' + 12' = 2985.2'))
Well:	Daniels 1-28	North Reference:	Grid
Wellbore:	Daniels 1-28	Survey Calculation Method:	Minimum Curvature
Design:	Daniels 1-28	Database:	Gyrodata NWDB

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
BHL - Daniels 1-28										
5,384.00	11.95	64.37	5,253.92	275.02	846.58	-498.98	1.13	-1.12	0.70	
5,478.00	10.56	63.54	5,346.11	283.07	863.06	-507.04	1.49	-1.48	-0.88	
5,571.00	9.64	64.37	5,437.67	290.24	877.71	-514.20	1.00	-0.99	0.89	
5,616.00	9.64	64.37	5,482.03	293.50	884.51	-517.56	0.00	0.00	0.00	
Projection to Bit : 37.672189 , -100.931592										

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
5,616.00	5,482.03	293.50	884.51	Projection to Bit : 37.672189 , -100.931592	

Checked By: _____ Approved By: _____ Date: _____

QUASAR ENERGY SERVICES, INC.



3288 FM 51
Gainesville, Texas 76240
Office: 940-612-3336

Form 185-2c

Fax: 940-612-3336 | qesi@qeserve.com

2/2/20

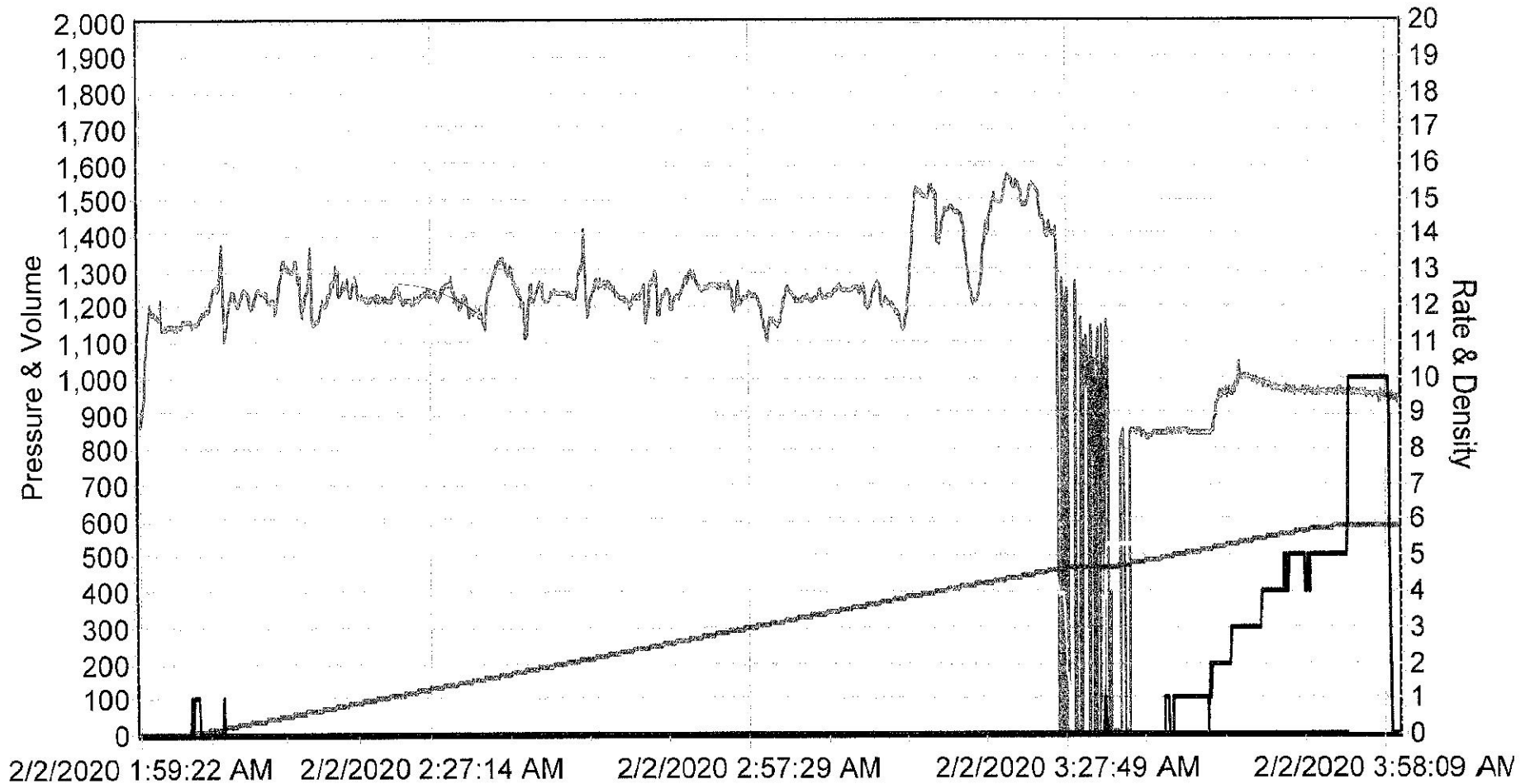
CEMENTING JOB LOG

CEMENTING JOB LOG

Company: MERIT ENERGY COMPANY				Well Name: DANIELS 1-28			
Type Job: Cement- Surface				AFE #: 0			
CASING DATA							
Size: 8 5/8		Grade: J-55		Weight: 24			
Casing Depths		Top: 0		Bottom: 0			
Drill Pipe:		Size: 0		Weight: 0			
Tubing:		Size: 0		Weight: 0		Grade: 0 TD (ft): 1762	
Open Hole:		Size: 12 1/4		T.D. (ft): 1762			
Perforations		From (ft): 0		To: 0		Packer Depth(ft): 0	
CEMENT DATA							
Spacer Type:		FRESH WATER					
Amt.	10 BBL	Sks Yield		ft ³ /sk		Density (PPG)	8.33
LEAD:	CLASS C - 2% C-45, 2% GYPSEAL, 3% CC, 1/2# POLYFLAKE					Excess	100
Amt.	515	Sks Yield	2.42	ft ³ /sk		Density (PPG)	12.1
TAIL:	CLASS C - 2% CC, 1/4# POLYFLAKE					Excess	100
Amt.	165	Sks Yield	1.33	ft ³ /sk		Density (PPG)	14.9
WATER:							
Lead:	174.119	gals/sk:	14.2	Tail:	36.3727	gals/sk:	6.33 Total (bbls): 210.4917
Pump Trucks Used:	110 - DP7						
Bulk Equipment:	127 - 660-20 / 136 - 660-24						
Disp. Fluid Type:	FRESH WATER		Amt. (Bbls.)	106.6407		Weight (PPG):	8.33
Mud Type:						Weight (PPG):	
COMPANY REPRESENTATIVE: RODNEY GONZALEZ				CEMENTER: KIRBY HARPER			
TIME	PRESSURES PSI			FLUID PUMPED DATA		REMARKS	
	AM/PM	Casing	Tubing	ANNULUS	TOTAL		RATE
2200						ON LOCATION -- SPOT AND RIG UP	
0130						CASING ON BOTTOM - BREAK CIRC.	
0140						SAFETY MEETING	
0157	1500					PRESSURE TEST	
0204	0				222	5.5	START MIXING LEAD CEMENT @ 12.2 PPG
0313	50				39	5	START MIXING TAIL CEMENT @ 14.8 PPG
0329							SHUT DOWN -- DROP PLUG
0332	200				0	5	START DISPLACEMENT
0352	450				96	3	SLOW RATE
0354	500-1000				106		BUMP PLUG
0356	1000-0						RELEASE PRESSURE -- FLOAT HELD
					120		CIRCULATE CEMENT TO THE PIT

MERIT ENERGY COMPANY
DANIELS 1-28
8.625 SURFACE
02/02/20

Density Total Rate Total Volume Total Pressure





QUASAR ENERGY SERVICES, INC.

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Gainesville, Texas 76240

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Form 185-2c

2/7/20

CEMENTING JOB LOG

CEMENTING JOB LOG

Company: MERIT ENERGY **Well Name:** DANIELS 1-28

Type Job: Cement- Production **AFE #:** 65116

CASING DATA

Size:	5 1/2	Grade:	J-55	Weight:	17
Casing Depths	Top: 0	Bottom:	0		
Drill Pipe:	Size: 0	Weight:	0		
Tubing:	Size: 0	Weight:	0	Grade: 0	TD (ft): 5586
Open Hole:	Size: 7 7/8	T.D. (ft):	5586		
Perforations	From (ft): 0	To: 0	Packer Depth(ft):	0	

CEMENT DATA

Spacer Type:	MUD FLUSH				
Amt.	500 GAL	Skys Yield	12 BBL	ft ³ /sk	Density (PPG) 8.3
LEAD:					Excess
Amt.		Skys Yield		ft ³ /sk	Density (PPG)
TAIL:	50/50 POZ CLASS C				Excess
Amt.	290	Skys Yield	1.55	ft ³ /sk	Density (PPG) 13.7

WATER:

Lead:		gals/sk:		Tail:	7	gals/sk:	40	Total (bbis):	48
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Pump Trucks Used: 210-DP11

Bulk Equipment: 127-660-20

Disp. Fluid Type: KCL 4% Amt. (Bbls.) 128.8 Weight (PPG): 8.3

Mud Type: Weight (PPG):

COMPANY REPRESENTATIVE: RODNEY **CEMENTER:** *Madeline*

TIME	PRESSURES PSI			FLUID PUMPED DATA		REMARKS
	Casing	Tubing	ANNULUS	TOTAL	RATE	
09:00						ON LOC, SAFTEY MTG, R.U.
11:20	2700					TEST LINES
11:22	80			12	3.3	PUMP MUD FLUSH
11:27	80			5	3.3	H2O SPACER
11:35						PLUG RAT AND MOUSE
11:50	310				7	START MIXING 240SX @13.7#
12:17				67		SHUT DOWN, DROP PLUG, WASHUP
12:22	280				7.4	START DISPLACEMENT
12:39	620			118	2.4	SLOW RATE
12:44	750-1500			129		PLUG DOWN
12:47						RELEASE PSI, FLOAT HELD
						JOB COMPLETE
						THANK YOU FOR YOUR BUSINESS!!!

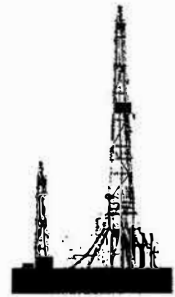


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FRACTURING / ACID / CEMENT



BID #: 2442		AFE#/PO#: 65116					
TYPE / PURPOSE OF JOB Cement- Production				SERVICE POINT Liberal, KS			
CUSTOMER MERIT ENERGY				WELL NAME DANIELS 1-28			
ADDRESS gardencity.invoices@meritenergy.com				LOCATION			
CITY GARDEN CITY		STATE KS		ZIP		TYPE AND PURPOSE OF JOB	
DATE OF SALE 2/7/2020				COUNTY HASKELL		STATE	
QTY.	CODE	YD	UNIT	PUMPING AND EQUIPMENT USED	UNIT PRICE	AMOUNT	
60	1000	L	Mile	Mileage - Pickup - Per Mile	\$3.15	\$ 189.00	
120	1010	L	Mile	Mileage - Equipment Mileage - Per Mile	\$6.00	\$ 720.00	
1	5490	L	Per Well	Pumping Charge 5501'-6000'	\$2,022.30	\$ 2,022.30	
Subtotal for Pumping & Equipment Charges						\$ 2,931.30	
QTY.	CODE	YD	UNIT	MATERIALS	UNIT PRICE	AMOUNT	
145	5632	L	Per Sack	Cement - Class C	\$18.90	\$ 2,740.50	
145	5642	L	Per Sack	POZ (Flyash)	\$10.90	\$ 1,580.50	
1	4270	L	Each	Float Shoe (Red) 5 1/2"	\$617.40	\$ 617.40	
1	4340	L	Each	Float Collar (Red) 5 1/2"	\$771.12	\$ 771.12	
1	4420	L	Each	Top Rubber Plug 5 1/2"	\$59.40	\$ 59.40	
20	4450	L	Each	Centralizers 5 1/2"	\$63.00	\$ 1,260.00	
26	2504	L	Per Gal.	Clayplex 640	\$44.10	\$ 1,146.60	
122	5693	L	Per Lb.	C-17 Fluid Loss	\$10.71	\$ 1,306.62	
3	5750	L	Per Gal.	VSC Cement Defoamer Liquid	\$44.10	\$ 132.30	
73	5800	L	Per Lb.	Cello Flakes-Poly Flake 1/8" cut	\$2.52	\$ 183.96	
1,462	5850	L	Per Lb.	Gypsum	\$0.95	\$ 1,388.90	
1,754	5860	L	Per Lb.	Kol-Seal	\$0.78	\$ 1,368.12	
500	5870	L	Per Gal.	Mud Flush	\$1.26	\$ 630.00	
1,692	5890	L	Per Lb.	Salt	\$0.32	\$ 541.44	
Subtotal for Material Charges						\$ 13,726.86	
WORKERS				TOTAL		\$ 16,658.16	
				DISCOUNT: 30%		DISCOUNT \$ 4,997.45	
				DISCOUNTED TOTAL		\$ 11,660.71	
STAMPS & NOTES:					As of 9/22/15 any invoice with a discount must be paid within 60 days of the invoice date. After 60 days the discount will be removed and the invoice will reflect full price.		
					CUSTOMER SIGNATURE & DATE		

**All accounts are past due net 30 days following the date of invoice. A finance charge of 1 1/2% per month or 18% annual percentage rate will be charged on all past due accounts.