

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](mailto: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) (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	PENNY 1-31
Doc ID	1482333

All Electric Logs Run

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

Form	ACO1 - Well Completion
Operator	Merit Energy Company, LLC
Well Name	PENNY 1-31
Doc ID	1482333

Tops

Name	Top	Datum
CHASE	220	.
COUNCIL GROVE	2470	.
TOKEPA	3280	.
HEEBNER	3640	.
TORONTO	3660	.
MARMATON	4305	.
PAWNEE	4460	.
CHEROKEE	4480	.
ATOKA	4775	.
MORROW	5500	.
CHESTER	5285	.
ST GEN	5330	.
ST LOUIS	5370	.



# MBC WELL LOGGING LLC

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

Well Name: PENNY 1-31 AFE 64496 DEVIATED MERIT ENERGY CO LLC  
 Well Id: API 15-187-21345-01-00  
 Location: STANTON COUNTY, KANSAS USA  
 License Number: 32446  
 Spud Date: 9-30-201  
 Surface Coordinates: SHL 680'feI- 709'fni-SEC 31-T27S-R40W  
 BHL 670FEL 990FNL  
 Bottom Hole Coordinates: HLS-DIL/SP/GR CNL/CAL/PE/BHV SONIC SFC- GR TO SFC'  
 Ground Elevation (ft): 3270 K.B. Elevation (ft): 3282  
 Logged Interval (ft): 3600 To: 5684 Total Depth (ft): Elog 5618  
 Formation: SPERGEN P&A  
 Type of Drilling Fluid: MUDCO JUSTIN WHITING CELL (620)-214-3630  
 Region: WILDCAT  
 Drilling Completed: 10-04-2019

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

## OPERATOR

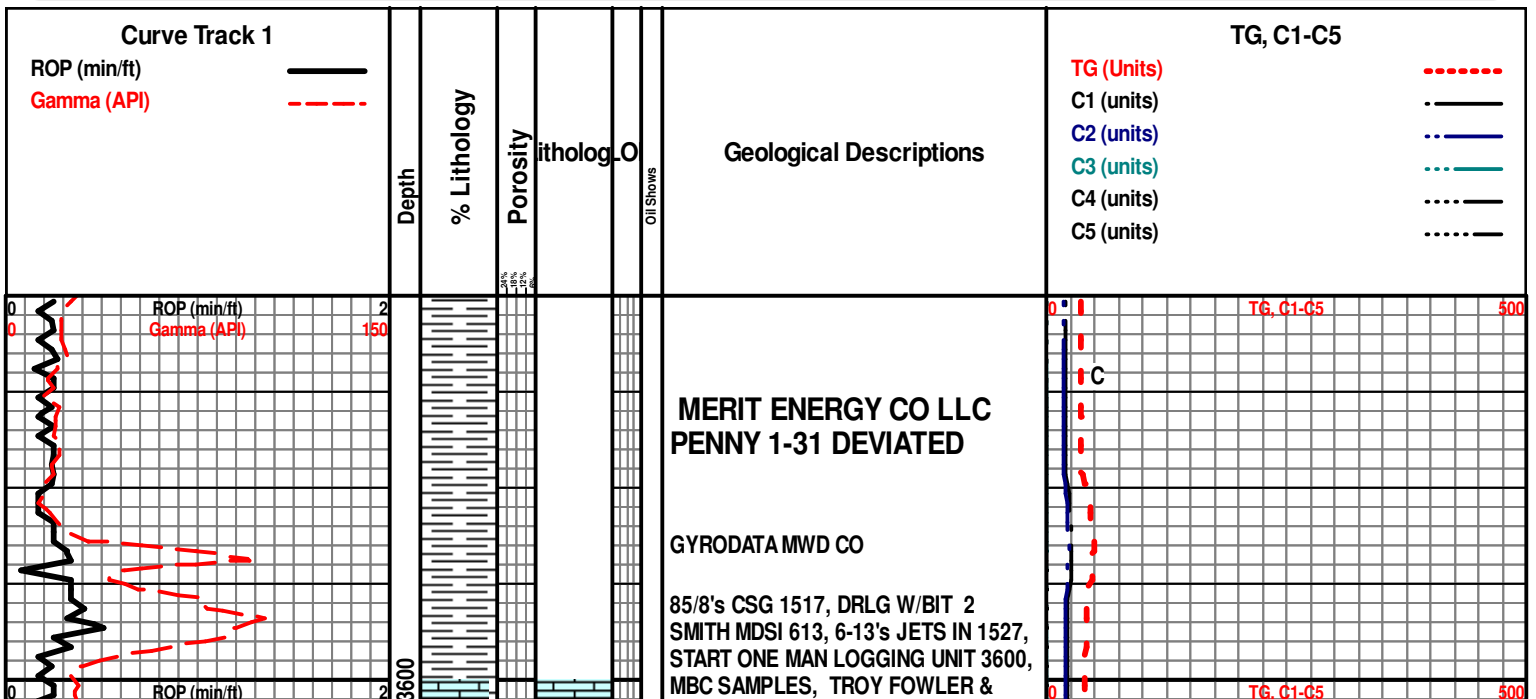
Company: MERIT ENERGY CO LLC  
 Address: ATTN MARTIN LANGE GEOLOGY  
 13727 NOEL RD STE 1200  
 DALLAS, TEXAS 75240

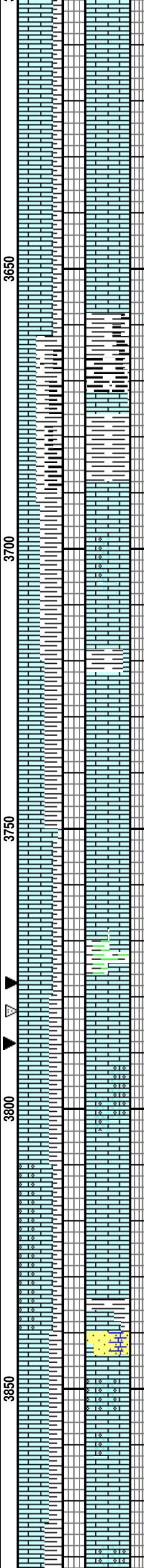
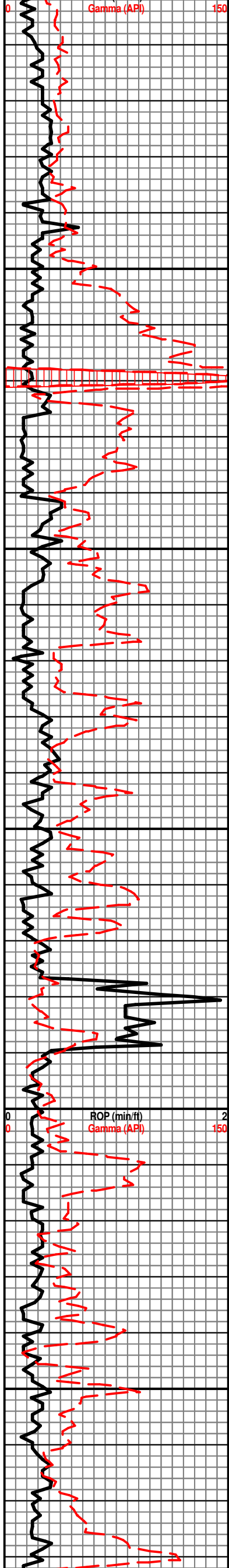
## MUDLOGGER

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

## ROCK TYPES

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





AUSTIN GARNER LOGGERS

LS; CRM CHLKY VF OOL, TR VF BIOSPARITIC/VFOOL, N/O, FAINT GOLD MFNSOC

LS; GYISH TN BUFF HD DNS FOSS XLN INCRS SHLY

CARRYING RED BED SH

SH; GY INCRS DK GY LMY TO BLK BLKY CARB

**BASE HEEBNER**  
3667-385ss TVD 3658-376

GY SH W/CARB MATL SE LT GRN SMO SFT

**TORONTO 3691-409ss**

LS; LT TN TN GD DNS FLAKY FRAC XLN, TO GYISH TN FOSS, SHDW VF OOL IP, N/O PURPL FLOR NSOC

LS; LT TN HD DNS F XLN TO BUFF, BUFF-WH FOSS, INTBD GRN SH FREE PYR, N/O V/FINT GOLD FLOR NSOC

LS; LT TN HD DNS VF XLN, SHDW FOSS, CRM/WH CHLK, N/O MFNSOC

SH; LT GY GY GRN PYR, TR OFF WH GYISH VF GR LY SS NO SHOW

**LANSING**  
3768-486ss TVD 3759-477

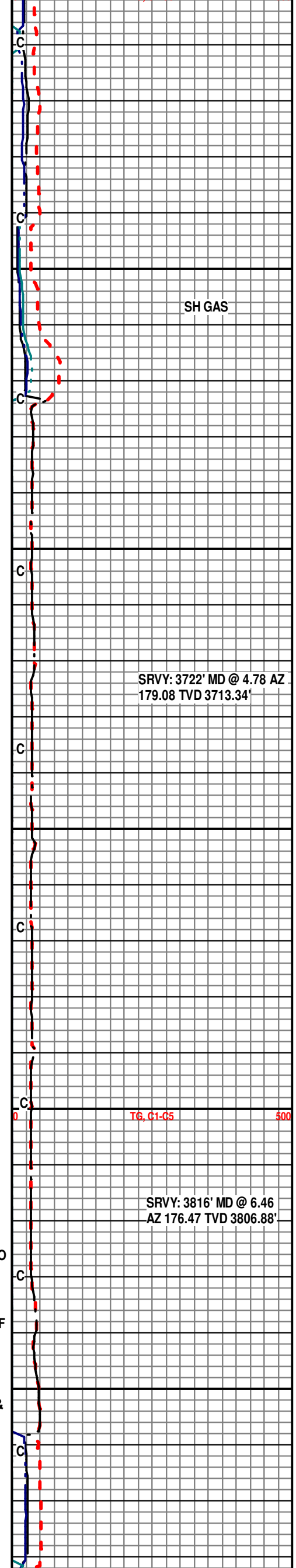
LS; LT TN SLI GY TINT, VF F OOL, SME CRINOIDAL, TR MED OOL, CRM WH CHLK, N/O PURPL FLOR NSOC

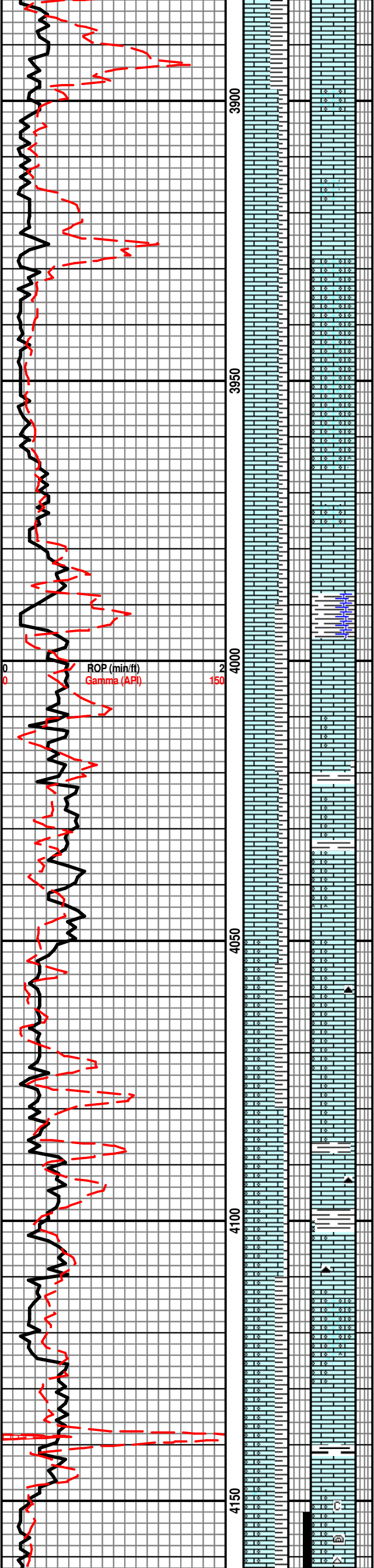
LS; CRM BUFF VF F OOL, CHLKY IP NO SHOW

SH; GY LT GY LMY TR (1) OFF WH VF GR LY SS, NO SHOW

LS; TN SPSR CMTED P/SRTD FOSS & OOL, SME MOTT TN CRM CHLY W/GY, F-PELL NO SHOW

LS; LT TN HD DNS F XLN IP, INCRS





SPARRY VF OOL,, N/O SME YEL FLOR NSOC

LS; LT GYISH HD DNS XLN SHLY NO SHOW

SRVY: 3910' MD @ 6.02  
AZ 176.74 TVD 3900.33'

LS TN OFF WH WEATHD APPR, VF OOL, MICRO QZ, SME GY W/CRS FUUS/FOSS NO SHOW

LS; LT BUFF CHLKY VF OOL, TYR VF SUGARY MATRIX F-OOL, N/O, MFNSOC

LS LT GYISH W/TN P-SRTD ELIP TO OVAL OOIDS, FOSS FRGS, CMR WH CHLK, N/O NO SHOW

SH; GY DK GYLMY SME GYISH GRN VF CALCITIC

TG, C1-C5 500

SRVY: 4005' MD @ 5.74 AZ  
176.51 TVD 3994.83'

LS; LT GYISH WH HD XLN CHLK EDGES, SME P/SRTD OOL & FOSS FRGRTL W/ GY SPOTS, N/O MFNSOC

LS; GY BUFF P/SRTDS VF-UPR FINE, TN PELL & OOL, INTBDS BLK CALCITIC SH W/BLK MATL, N/O, PURPL LSME GOLDS MFNSOC

LS; LT TN F-OOL, W/MICRO BLK SH CNTR, SME LT GYISH CHLKY W/OOL, N/O, PURPL FLOR NSOC

SRVY: 4100' MD @ 5.34 AZ  
176.42 TVD 4089.38'

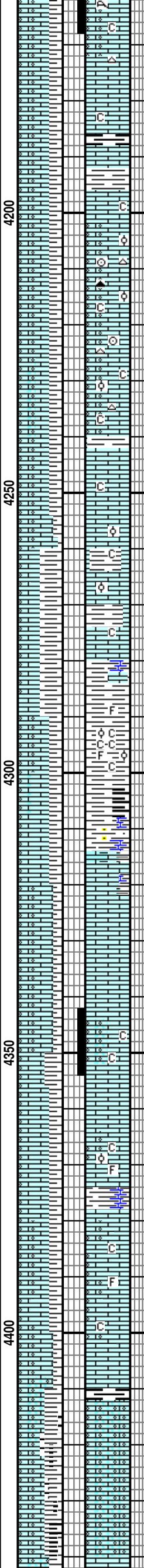
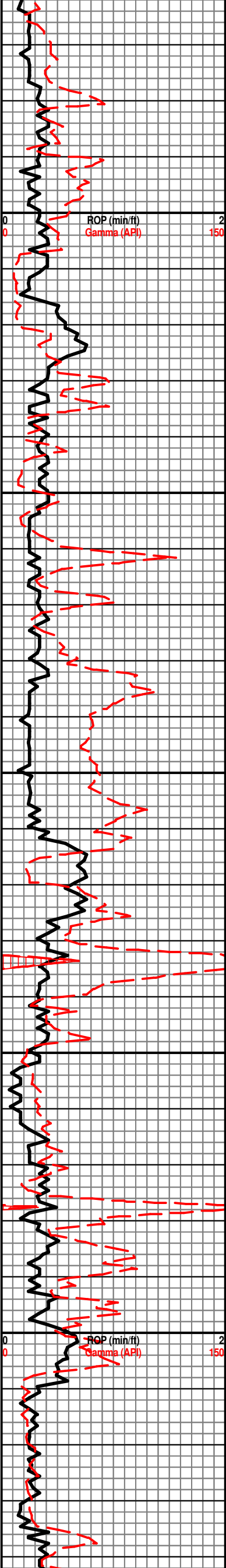
LS; CRM WH CHLKY VF OOL, TR VF OOLCAS, CLR VIT, CHT, N/O GOLD PURPL TO SME YEL FLOR NSOC

STARK 4140-858ss

SWOPE  
4141-859ss TVD 4130-848

LS- TN LT GY OFF WHT TO BUFF, HRD DNS TO SLI BRITT, F-XLN TO M/F-OOL PR SORTD, SUB-SUCRO TO CHLKY,





TRS OF TN SEMI-OPAQ CHRT, SME FOSS FRAGS IP, PALE DLL YEL MIN FLO, PR/FR OOLICAST TO PR VUG POR, NO VIS CUT OR SHOW

SH- GY DRK GY, CARBY

SRVY: 4195' MD @ 4.96 AZ 176.45 TVD 4184'

TG, C1-C5 500

**HERTHA 4215-933**

LS- GY DRK GY BUFF TO LT TN, HRD DNS TO BRITT, F/VF-XLN SLI CRYPTO TO MICRO-OOL IP, SUCRO TO CHLKY, TRS OF FOSS FRAGS, SME SCATT LARGER OOL IP, F/TRS OF TN GY CHRT, DLL YEL TO SPOTTY BRITE YEL FLO IP, POSS PR OOLICAST TO INTER-GRN POR, NO VIS CUT OR SHOW, NO DET ODOR

LS- GY TN OFF WHT TO BUFF, HRD DNS TO BRITT, F/V-XLN SLI CRYPTO, SUCRO TO CHLKY, TRS OF FOSS FRAGS, TRS OF OOL IP, DLL YEL MIN FLO W/SCATT YEL FLO, POSS PP POR IP, NO VIS CUT OR SHOW, NO DET ODOR

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

**PLSNT SH 4302-1020**

LYMY SH- GY DRK GY BRN TO BLK, FRM BRITT TO SLI SFT IP, SMTH BLKY TO GRNY, SILTY IP, CARBY TO CALC

SRVY: 4288' MD @ 4.72 AZ 175.91 TVD 4276.67'

**MARM 4315-1033ssTVD 4303-1021**

LS- GY TN OFF WHT, HRD DNS TO BRITT, F-XLN TO M/VF-OOL GRNS, SUB-SUCRO TO CHLKY, DLL YEL MIN YEL FLO, PR/FR-OOL TO VUG POR, NO VIS CUT OR SHOW, NO ODOR, INCR FLO IN OOL WHEN SAMPLED WITH LIGHTER FLUID

SILTY CALC SH- FRM BRITT, BLKY GRNY, POSS CARB, V/CALC

LS- GY DRK GY TN OFF WHT, HRD DNS TO BRITT, F/VF-XLN TO CRYPTO IP, CHLKY, TRS OF FOSS FRAGS AND PELL, TRS OOL PR SORTD M/VF SME SHADOW OOL, GRNY TXT, SME DISS GY DRK GY BLK SH IP, V/DLL TO DLL PALE YEL FLO IP, POSS PR MICRO-PP POR IP, NO VIS CUT OR SHOW, NO ODOR

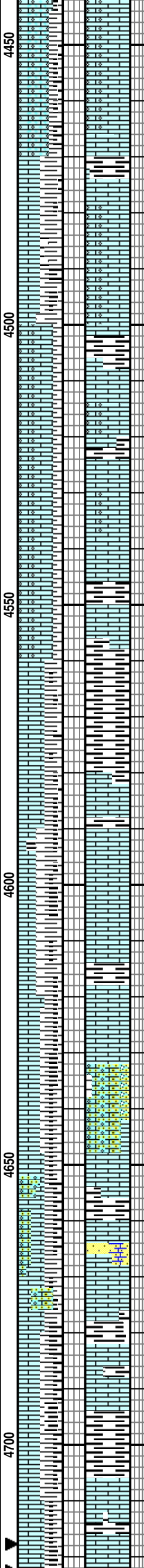
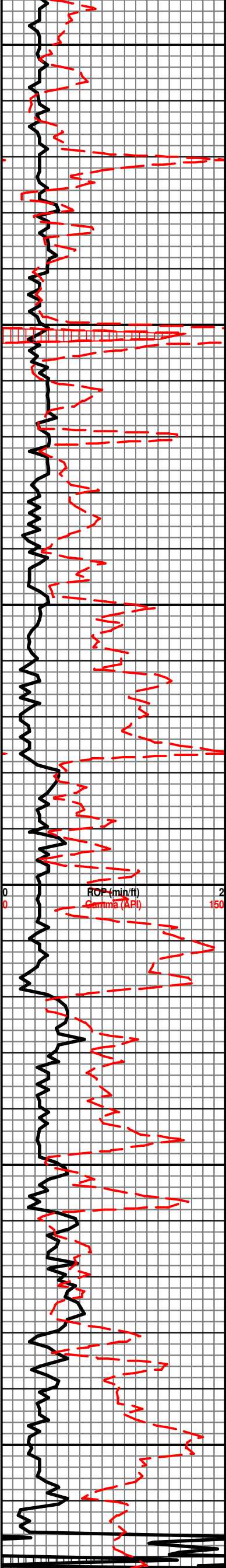
SRVY: 4382' MD @ 4.42 AZ 176.71 TVD 4370.37'

SH; DK GY TO BLK,

TG, C1-C5 500

LS; GY-TN HD DNS W/OOL, TO BUFF-WH/TN VF F OOL & PELL, INCRS DIRTY GY W/PELL, N/O, PURP SME FAINT GOLD FLOR NSOC

LS; TN BRN SPARITIC TO VF SUGARY F & LWR MED OOL & OOLCAS, WH CHLK, TR PYR, N/O



PURPL TO SME PALE YEL WEAK FLOR NSOC

TN GY HD DNS FOSS LS SHLY N/O PUPRL TO WEAK GOLD MFNSOC

SH; BLK, BLKY HD CALC TO LMY CARBY, SME V/DK GYISH SFT LMY

**PWNE**  
4476-1194ssTVD 4464-1182

LS; BUFF WEATHD APPR W/VF BLK SPLOTCHES & PELL, IP, SME OOL GY BIOSPARITIC/OOL HD DNS INTBD BLK SH, N/O, PURPL SME FAINT GOLD MFNSOC

SH; BLK CARB

**LITTLE OSAGE**  
4505-1223ssTVD 4496-1211

LS; CRM WH TN MISHMASH FOSS & OOL, HD DNS SME GY INTRUS & CLAST, DK GY PELL N/O, PURPL W/SME V/FAINT GOLD FLOR NSOC

LS; LT CRM SLI GY CHLKY W/GY PELL, TO GY TN HD DNS XLN, N/O, PURPL FLOR NSOC

SH BLK DULL HD CALC CRBY INTBD DK GY TN HD DNS XLN LS

SH; BLK BLKY CALC, CARBY

LS; LT CRM SLI GY CHLLKY W/GY PELL TO GY TN HD DNS XLN LS N/O, PURPL FLOR NSOC

LS; TN HD DNS FOSS FRGRTL, TO DK GY SHLY W/FUS/FOSS, N/O, SCATT WEAK GOLD FLOR PRED PURL NSOC

SH BLK CARB

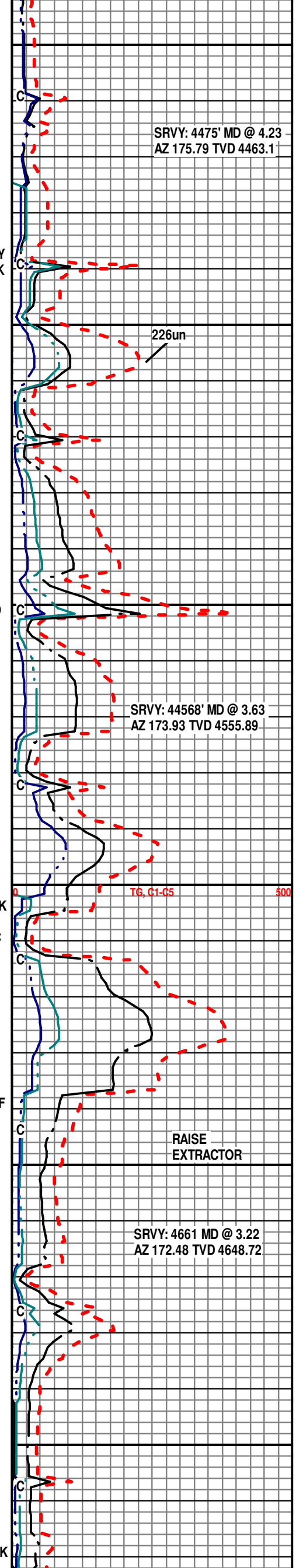
LS; LT TN HD DNS XLNTO LT BUFF VF ELIP OOL W/QTZ CNTR N/O SCATT WEAK GOLD FLOR NSOC

BLK CARBY SH, ABDT MICA

SS; GY WH VF GR HD TT, LMY BLK CARB MATL N/ONFSOC

BLK CARB SH, SME OLIVE GRN

LS; TN HD DNS XLN, FOSS FRA, CHLK ERAC FILL N/O MENSOC



SRVY: 4475' MD @ 4.23  
AZ 175.79 TVD 4463.1

SRVY: 44568' MD @ 3.63  
AZ 173.93 TVD 4555.89

SRVY: 4661 MD @ 3.22  
AZ 172.48 TVD 4648.72

FRAC FILL N/O, MFSOC  
SH; BLK BLKY CARBY TO GY SFT  
LMY W/PYR & CARB MATL

**ATOKA**  
4746-1464ssTVD4734-1452

SRVY: 4756' MD @ 2.53  
AZ 169.94 TVD 4743.6

LS; CRM BUFF F XLN ABDT CHLK,  
SME V/SHLKY IP, INCRS TN HD DNS  
XLN INTBD BLK SH SME W/PHIOS NOD  
NO SHOW

LS; TN HD DNS XLN COMGLSD  
W/CRM CHLKY, ABDT CHLKY, N/O,  
PURPL FLOR NSOC

TG, C1-C5 500

LOWER  
EXTRACTOR

SH; BLK BLKY CARBY INTBD LS  
STRNGRS

SRVY: 4851' MD @ .93  
AZ 160.46 TVD 4838.46

BLK CARB SH

LS; GY BLK TN HD DNS HLY FOSS XLN

SH; BLK DULL CARB BLKY CALC,  
MICA, SME PYR INTBD LS STRNGRS

LS; DIRTY GY BRN TN HD DNS XLN,  
SME COMGL HD DNS CHLK W/CRIN &  
FOSS PCES, SHLY, N/O, DK PURPL  
SME GOLD TINGE FLOR NSOC

BLK CARB SH

SS; LT BRN HD DNS VF GR SILIC  
GRDSS TO SNDY CHT, N/O, NFSOC

LS; DIRTY DK GY BRTL GRITTY SHLY  
N/O, PURPL SME GOLD TINGE NSOC  
O EVIDEN OF HYDROCARBON THRU  
OUT WELL

SRVY: 4945' MD @ .88  
AZ 92.52 TVD 4932.54

BLK PYRITIC CARB SH

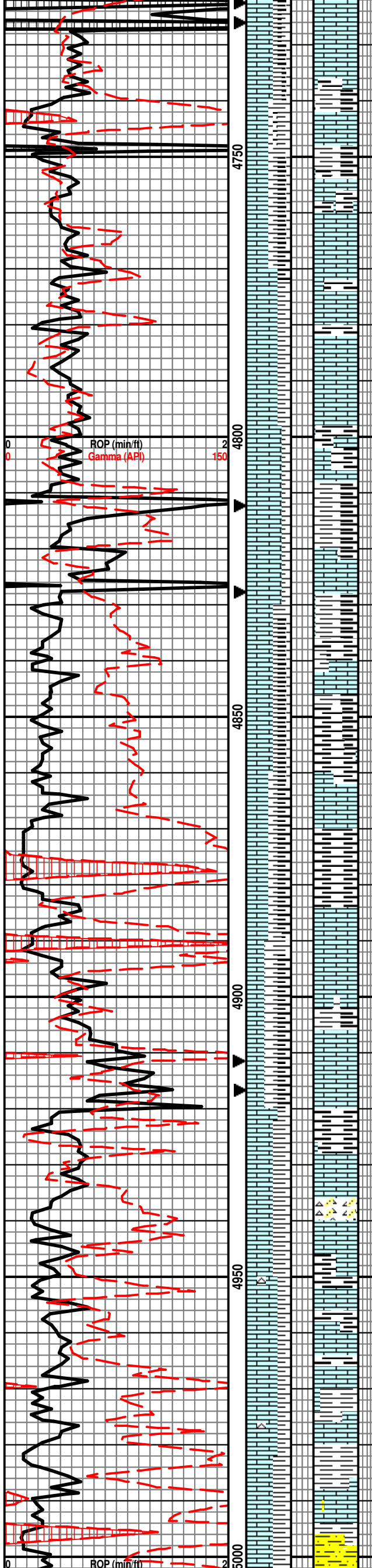
LS; DK GY CHLKY MOTT CRM-WH,  
SME SHDW FOSS, INTBD GRN SH, N/O  
PURPL FLOR NSOC

SH; BLK CARBY CALC PYR, W/LT  
GRN SFT FISS SH SME W/PYR

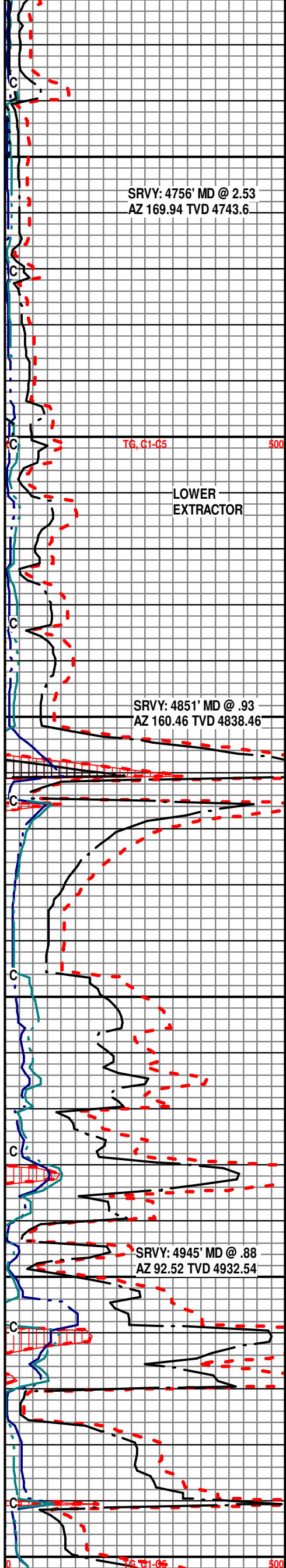
**MORROW**  
4989-1707ssTVD 4975-1693

SLTST/ VLT GYISH GRN FRM TO HD VF  
GR, SHLY PYR, MICA, SME TR SS; GRN  
WH TINGE VF GR TR GI ALL GAS

TG, C1-C5 500



FRAC FILL N/O, MFSOC  
SH; BLK BLKY CARBY TO GY SFT  
LMY W/PYR & CARB MATL  
**ATOKA**  
4746-1464ssTVD4734-1452  
SRVY: 4756' MD @ 2.53  
AZ 169.94 TVD 4743.6  
LS; CRM BUFF F XLN ABDT CHLK,  
SME V/SHLKY IP, INCRS TN HD DNS  
XLN INTBD BLK SH SME W/PHIOS NOD  
NO SHOW  
LS; TN HD DNS XLN COMGLSD  
W/CRM CHLKY, ABDT CHLKY, N/O,  
PURPL FLOR NSOC  
TG, C1-C5 500  
LOWER  
EXTRACTOR  
SH; BLK BLKY CARBY INTBD LS  
STRNGRS  
SRVY: 4851' MD @ .93  
AZ 160.46 TVD 4838.46  
BLK CARB SH  
LS; GY BLK TN HD DNS HLY FOSS XLN  
SH; BLK DULL CARB BLKY CALC,  
MICA, SME PYR INTBD LS STRNGRS  
LS; DIRTY GY BRN TN HD DNS XLN,  
SME COMGL HD DNS CHLK W/CRIN &  
FOSS PCES, SHLY, N/O, DK PURPL  
SME GOLD TINGE FLOR NSOC  
BLK CARB SH  
SS; LT BRN HD DNS VF GR SILIC  
GRDSS TO SNDY CHT, N/O, NFSOC  
LS; DIRTY DK GY BRTL GRITTY SHLY  
N/O, PURPL SME GOLD TINGE NSOC  
O EVIDEN OF HYDROCARBON THRU  
OUT WELL  
SRVY: 4945' MD @ .88  
AZ 92.52 TVD 4932.54  
BLK PYRITIC CARB SH  
LS; DK GY CHLKY MOTT CRM-WH,  
SME SHDW FOSS, INTBD GRN SH, N/O  
PURPL FLOR NSOC  
SH; BLK CARBY CALC PYR, W/LT  
GRN SFT FISS SH SME W/PYR  
**MORROW**  
4989-1707ssTVD 4975-1693  
SLTST/ VLT GYISH GRN FRM TO HD VF  
GR, SHLY PYR, MICA, SME TR SS; GRN  
WH TINGE VF GR TR GI ALL GAS  
TG, C1-C5 500



Gamma (API) 150

CLAY PLUG

WHT BRN V. GRN GRN, CAL  
BUBL AFTER 45min, N/O, BLK FLOR  
NSOC

SH; LT GY BRN SEMI SMO BLKY  
V/BRTL NON CALC, TO GRN SME BLK  
SPLNTY SME BLK BLLKY

RAISE  
EXTRACTOR

SRVY: 5040' MD @ .97  
AZ 73.14 TVD 5027.53

SH; SME BLK SLNTY, PREDS V/DK GY  
TO BLK SFT GUMMY IP, INCRS  
UPHOLE RED BED MATL

SNDY LS- WHT OFF WHT GY, TT TO  
FRI, VVF-QRTZ GRNS SUB RND CALC  
MTX, SUCRO TO SLI CHLKY, TRS OF  
SPICULES, DISS TO LAMN BLK SH IP,  
NO VIS FLO, POSS PR INTER-GRN  
POR, NO VIS CUT OR SHOW, NO DET  
ODOR

SH- GY DRK GY TO BLK, FRM BRITT TO  
SLI SFT, SMTH BLKY TO SLI SPLNTY,  
TRS OF MICA, PYR

SRVY: 5132' MD @ .62  
AZ 61.15 TVD 5119.52

SILTY SH- GY DRK GY BLK, FRM BRITT,  
BLKY GRNY, CALC IP, LS STRNGS  
CHLKY, PYR

SILTY LYMY SH- GY DRK GY BLK, FRM  
BRITT, BLKY PLTY, CALC, LS STRNGS  
CHLKY, TRS OF PYR, MICA

ROP (min/ft)  
Gamma (API) 150

LYMY SILTY SH- GY DRK GY TO BLK,  
FRM BRITT, SMTH BLKY GRNY, CALC,  
PYR, CHLKY LS STRNGS

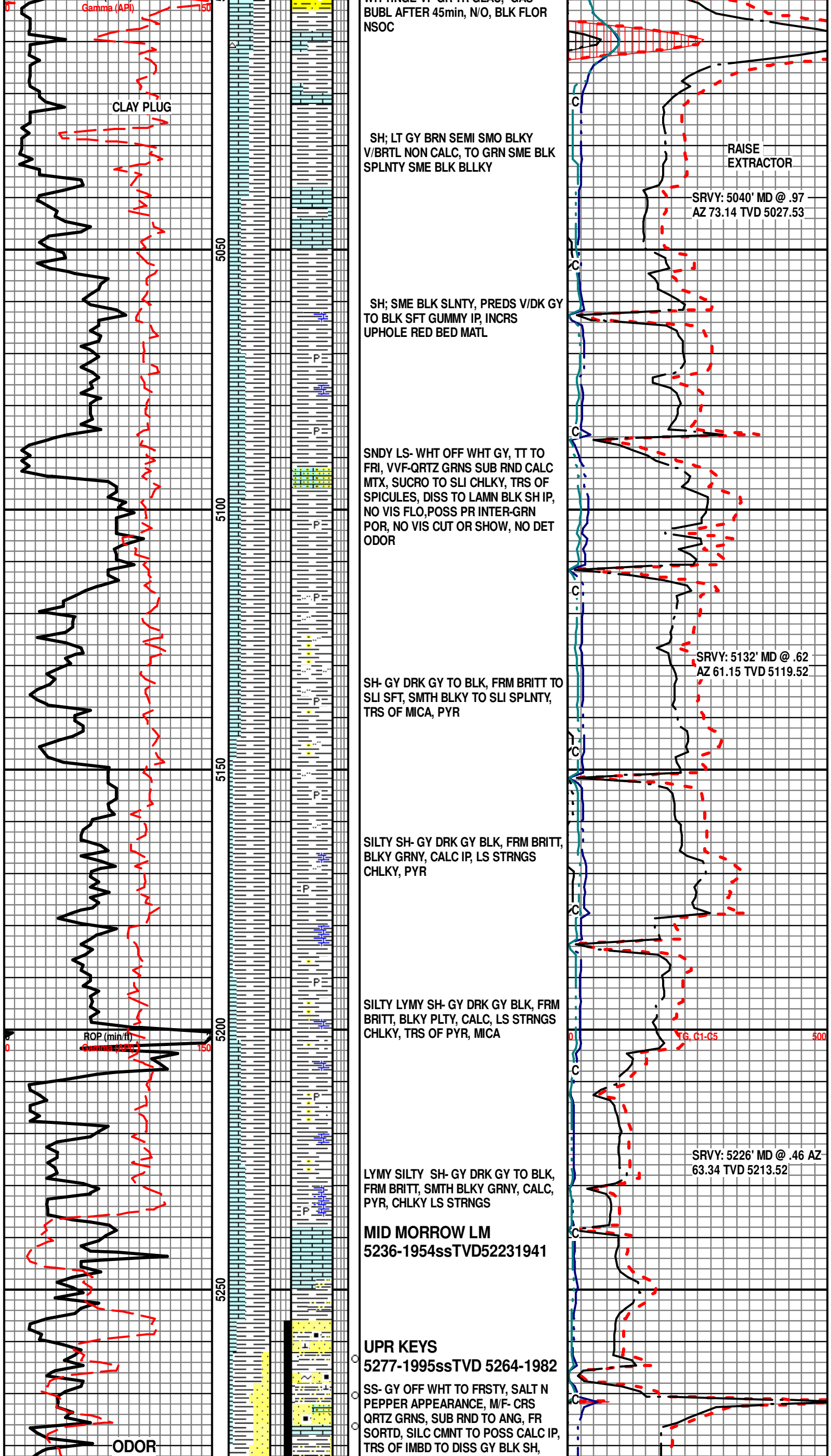
SRVY: 5226' MD @ .46 AZ  
63.34 TVD 5213.52

MID MORROW LM  
5236-1954ssTVD52231941

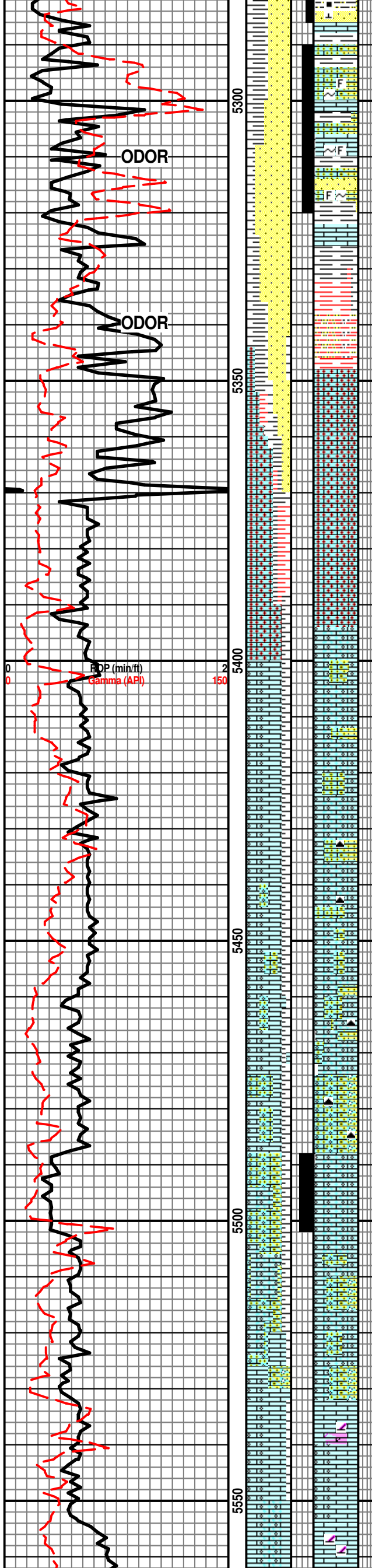
UPR KEYS  
5277-1995ssTVD 5264-1982

SS- GY OFF WHT TO FRSTY, SALT N  
PEPPER APPEARANCE, M/F- CRS  
QRTZ GRNS, SUB RND TO ANG, FR  
SORTD, SILC CMNT TO POSS CALC IP,  
TRS OF IMBD TO DISS GY BLK SH,

ODOR







POSS GLAUC IP, NO FLO, NO VIS CUT OR SHOW, GASSY ODOR

**LWR KEYS**  
**5321-2039ssTVD 5308-2026**

SNDY LS- OFF WHT GY LT TN TO MOTT, HRD BRITT TO FRI, CHLKY, FR/FR-SORTD M/VF QRTZ GRNS RND SUB ANG, CALC CMNT TO SILC CMNT, IMBD FOSS FRAGS CONSOLIDATED, IMB TO DISS GY BLK SH, V/DLL PALE YEL FLO IP TO NO VIS FLO, POSS PR INTER-GRN TO INTER-FOSS POR, NO VIS CUT OR SHOW, GASSY ODOR

SH- BLK SPLNTY, INCRS RED RGH SLTY LMY IP

**ST GEN**  
**5340-2058ssTVD5328-2046**

OOL LS- CRM OFF WHT LT GY TO LT TN, HRD DNS TO BRITT, F/VF-MICRO-OOL GRNS FR SORTD, SUCRO TO CHLKY, TRS OF SFT OFF WHT CHLK, V/DLL GLD FLO, PR INTER-GRN POR, NO VIS CUT OR SHOW, NO ODOR

5369' WORK ON PUMP APPROX 1.25 HRS

LS; WH OFF WH SLI GY VF AREN SME SCATT OOL, N/O PURPL FLOR NSOC

**ST LOUIS**  
**5392-2110ssVD5380-2098**

LS; CRM LAM ON WH VF AREN & OOL, CRM CHLKY VF OOL, N/O, PURPL SME TR GOLD FLOR

**ST LOUIS B**  
**5414-2132ssTVD 5402-2120**

LS; LT GYISHS TN HD VF OOL, SME AREN, TR ORNG VIT CONCORD FRAC CHT, N/O, PURPL SME FIANT GOLD FLOR NSOC

LS; CRM WH CHLKY VF AREN & OOL, SME MED TN HD DNS SPAR CMTD F-OOL, XLN PURPL FLOR NSOC N/O

LS; CRMISH WH VF OOL, & AREN, SME ORNG CHT AAB, PURPL FLOR NSOC NO ODOR

**ST LOUIS C**  
**5486-2204ssTVD 5473-2191**

LS; CRMS CHLKY F-OOL, TO V/LT TN SPAR CMTD P/SRTD VF F OOL, SME FOSS SHLTR, TR BLK F-SH CLAST, NO ODOR, PURPL FLOR NSOC

LS; LT TN SME BUFF SHDOW VF F OOL SME OOL & AREN, OCC TN HD DNS XL DOLOMITIC SHLY PURPL FLOR NSOC NO

DK TN HD XLN DOLOMITIC LS

SDPERCEN

SRVY: 5320' MD @ .44  
 AZ 67.81 TVD 5307.52

SRVY: 5415' MD @ .37  
 AZ 64.73 TVD 5402.51

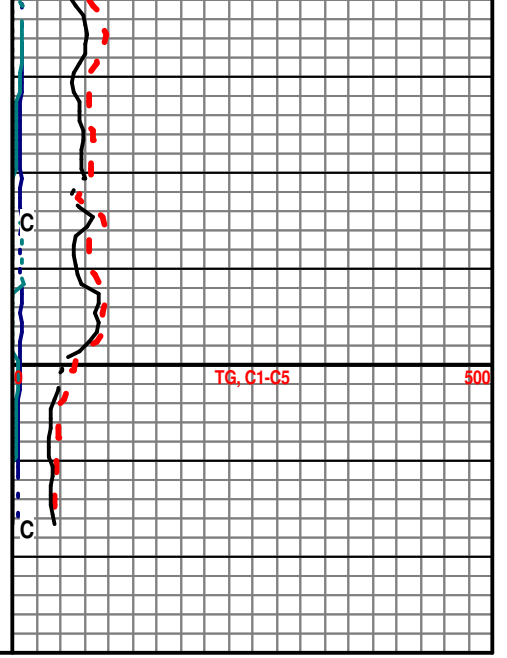
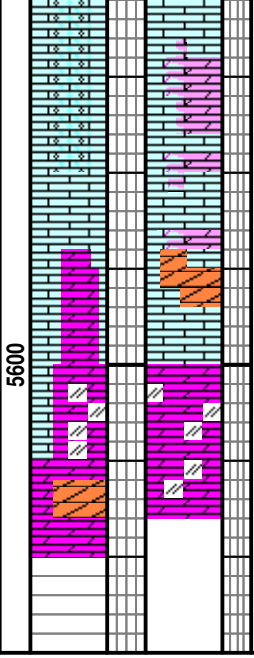
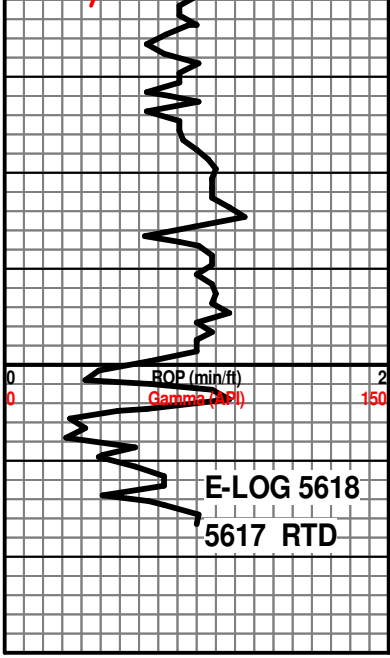
TG, C1-C5 500

SPERGEN  
5562-2280ssTVD5550-2268

LS; MED TN HD RGH TXT VF OOL,  
SME BRN LITH DOLOMITIC LS IP NO  
SHOW

DOLO; DK BRN RGH TXT, W/ABDT  
WH SFT POWDER ANHY

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







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

SERVICE ORDER - 1718 19698 L

Date: 10/1/2019

Well Name: Penny # 1-31 AFE # 64496	Location: 31-27S-40W
County - State: Stanton, Kansas	RRC #:
Type Of Service: Z-42 Cement Surface Casing	Customer's Order #:
Customer: Merit Energy	

Address: [ulysses.invoices@meritenergy.com](mailto:ulysses.invoices@meritenergy.com)  
 446 South Road M, Ulysses Ks. 67880

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
BC118	410	EA	A-Con Blend	50.00	20500.00
BC101	165	SK	Class C Cement	29.00	4785.00
CC102	247	LB	Celloflake	4.00	988.00
CC109	1470	LB	Calcium Chloride	1.00	1470.00
CC201	411	LB	Gilsonite	1.00	411.00
CF105	1	Ea	Top Rubber Cement Plug, 8 5/8"	225.00	225.00
ME102	180	MI	Heavy Equipment Mileage	8.00	1440.00
CE240	575	SK	Blending & Mixing Service Charge	1.40	805.00
TM	1626	MI	Ton Mileage	3.00	4878.00
CC2	1	HR	Depth Charge, 1001'-2000'	1500.00	1500.00
CE504	1	EA	Plug Container Utilization Charge	250.00	250.00
ME101	60	MI	Light Vehicle Mileage	5.00	300.00
CE505	1	EA	Cement Densimeter, with chart recorder	350.00	350.00
BE143	1	EA	Supervisor	75.00	75.00
BE144	4	EA	Driver	35.00	140.00
				Book Total:	\$38,117.00
				Taxes:	
				Disc. Price:	\$13,091.43
Additional 10% Discount as per Agreement on Cement Services				10% Disc	\$1,309.14
				Adjusted Price	\$11,782.29

PUMP TRUCK NUMBER: 38750 19842  
 DRIVER: *Angel Echevarria*  
*Victor A. Coz*  
 BASIC ENERGY SERVICES

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

CUSTOMER OR HIS AGENT

Customer Comments or Concerns:  
*Corey Stachler*  
*Oscar Chavez / Jose Martinez*





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

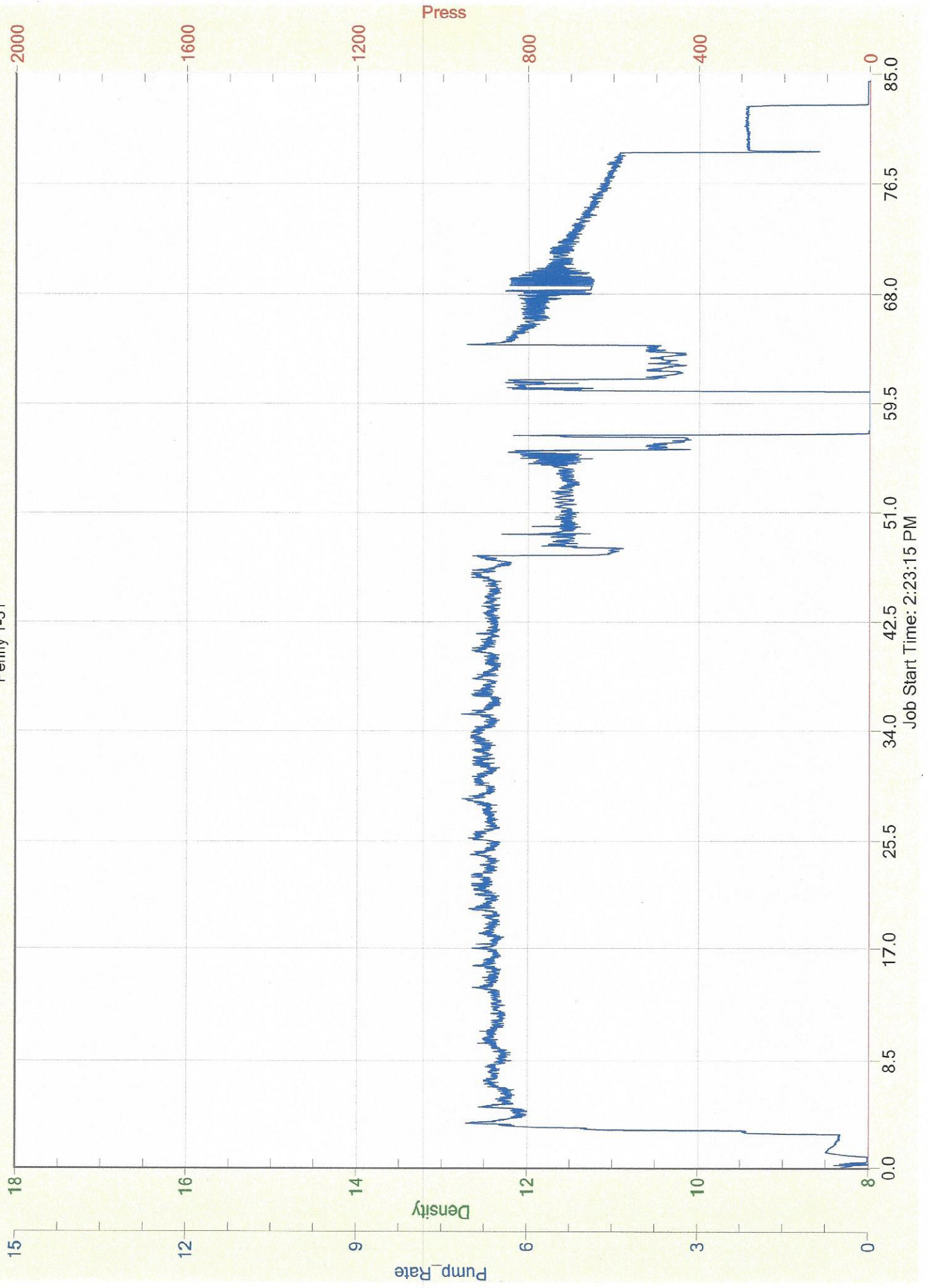
**PRESSURE PUMPING**

**Job Log**

<b>Customer:</b>	Merit Energy		<b>Cement Pump No.:</b>	38750 19842 12HRS	<b>Operator TRK No.:</b>	78868	
<b>Address:</b>	ulysses.invoices@meritenergy.com		<b>Ticket #:</b>	1718 19698 L	<b>Bulk TRK No.:</b>	37712 19883 Corey	27808 19578 Oscar
<b>City, State, Zip:</b>	446 South Road M, Ulysses Ks. 6788		<b>Job Type:</b>	Z-42 Cement Surface Casing			
<b>Service District:</b>	1718-Liberal KS		<b>Well Type:</b>	OIL			
<b>Well Name and No.:</b>	Penny # 1-31 AFE # 64496		<b>Well Location:</b>	31-27S-40W	<b>County:</b>	Stanton	<b>State:</b> Kansas
<b>Type of Cmt</b>	<b>Sacks</b>	<b>Additives</b>			<b>Truck Loaded On</b>		
A-Con Cement	410	3% Calcium Chloride, 1/2# Celloflake, 1# Gilsonite			37712 19883 Corey	Front	Back
Class C Cement	165	2% Calcium Chloride, 1/4# Celloflake			27808 19578 Oscar	Front	Back
						Front	Back
<b>Lead/Tail:</b>	Weight #1 Gal.	Cu/Ft/sk	Water Requirements		CJ. FT.	Man Hours / Personnel	
<b>Lead:</b>	12.1	2.41	13.9		988.1	TT Man Hours:	54
<b>Tail:</b>	14.8	1.34	6.33		221.1	# of Men on Job:	4
Time (am/pm)	(BPM)	Volume (BBLs)	Pumps		Pressure(PSI)		Description of Operation and Materials
			T	C	Tubing	Casing	
12:00pm							Arrived at location
13:00pm							Spot trucks/Rig up
14:00pm							Safety meeting
14:28pm					1500		Pressure test lines to 1500psi
14:30pm	3	10			50		Pump 10bbls of fresh water Spacer
14:33pm	6	175			150		Pump 175bbls of lead from 410sks at 12.1lbs
15:14pm	6	39			200		Pump 39bbls of tail from 165sks at 14.8lbs
15:26pm							Shut down/Drop plug/Wash pump and lines
15:29pm							Start displacement of 93bbls with fresh water
15:34pm	6	20			230		20bbls gone
15:38pm	5	40			310		40bbls gone
15:42pm	5	60			400		60bbls gone
15:47pm	4.5	80			500		80bbls gone/Slow down rate
15:51pm	2	83			980		Bump plug/Hold for minutes
15:53pm							Release pressure to check if float holds
							Got 80bbls of cement to surface
							Rig down
							Job Completed
							Thanked company man and rig crew
Size Hole	12 1/4	Depth	1527		TYPE	Float Collar	
Size & Wt. Csg.	8 5/8 24#	Depth	1517	New / Used	Packer	1475.38	Depth
Landing Psi	500+	Depth			Retainer		Depth
Shoe Joint	41.62	Type			Perfs		CIBP
Customer Signature:					Basic Representative: Victor A. Corona		
					Basic Signature: <i>Victor A. Corona</i>		
					Date of Service: 10/1/2019		

# Merit Energy

Penny 1-31



Job Start Time: 2:23:15 PM



# Pumping Order / Mixture

Client: Merit Energy  
Date: 10/1/2019  
Job: 8 5/8 Surface

Well Name & No: Penny 1-31  
Location Supervisor: Victor A. Corona  
COMPANY REP. Rodney Gonzales

Differential Pressure      1595 psi  
Lift Pressure:              500 psi

## Recipe

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Pressure Test PSI: 1500

MAX PSI: 500

**10 BBLs OF FRESH WATER SPACER**  
**175 BBLs LEAD SLURRY YIELD 2.41    12.1LBS            410SKS 13.9G/SK**  
**39 BBLs TAIL SLURRY YIELD 1.34    14.8LBS            165SKS 6.33G/SK**

**DROP PLUG/WASH PUMP ON TOP OF PLUG**

**93.0 BBLs OF DISPLACEMENT**  
**80.0 BBLs @ 5 BPM**  
**13.0 BBLs AT 2-3 BPM TO BUMP PLUG**

**DISP PLUG WITH 93 BBLs OF H2O**

