

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	MOLZ 1-26
Doc ID	1487586

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	MOLZ 1-26
Doc ID	1487586

Tops

Name	Top	Datum
HEEBNER	3805	.
TORONTO	3822	.
LANSING	3861	.
KANSAS CITY	4217	.
MARMATON	4384	.
PAWNEE	4467	.
CHEROKEE	4522	.
ATOKA	4657	.
MORROW	4755	.
MORROW A	4780	.
MORROW B	4806	.
MORROW C	4843	.
ST GENEVIEVE	4891	.





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

Well Name: Molz 1-26  
Well Id:  
Location: Sec. 26 T23S R35W, Kearny Co., Kansas  
License Number: 15-093-21976-0100  
Spud Date: Oct. 7th, 2019  
Surface Coordinates: SE NE NE NW  
Region: Wildcat  
Drilling Completed: Oct. 11th, 2019

Bottom Hole  
Coordinates:  
Ground Elevation (ft): 3009'      K.B. Elevation (ft): 3021'  
Logged Interval (ft): 3750'      To: 5015'      Total Depth (ft): 5015'  
Formation: Morrow  
Type of Drilling Fluid: Natural Chemical

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

**OPERATOR**

Company: MERIT ENERGY CO.  
Address: 13727 NOEL ROAD, # 1200 Tower 2  
DALLAS, TX 75240  
Co. Geo: Martin Lange


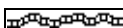
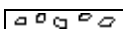
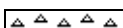
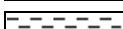



**GEOLOGIST**





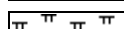

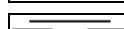

Name: Aaron Suelter  
Company: Earth Tech OGL, Inc  
Address: PO Box 683  
Hooker, Oklahoma 73945  
Off: 888-543-8378 Cell: 620-600-0777

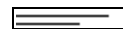

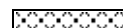


## SURVEYS







1875' INC 0.88 AZI 259.7  
 1996' INC 3.21 AZI 257.9  
 2062' INC 4.27 AZI 230.4  
 2156' INC 6.56 AZI 224.4  
 2250' INC 6.75 AZI 209.6  
 2344' INC 8.01 AZI 205.0  
 2439' INC 9.00 AZI 205.1  
 2533' INC 10.82 AZI 205.11  
 2628' INC 10.79 AZI 203.5  
 2720' INC 10.61 AZI 203.3  
 2815' INC 10.47 AZI 203.4  
 2909' INC 10.42 AZI 204.8  
 3002' INC 10.34 AZI 203.5  
 3126' INC 9.94 AZI 202.0  
 3221' INC 9.19 AZI 201.6  
 3315' INC 10.3 AZI 203.1  
 3440' INC 9.36 AZI 202.3  
 3566' INC 10.62 AZI 207.9  
 3660' INC 10.28 AZI 206.6  
 3755' INC 10.28 AZI 206.7  
 3880' INC 9.82 AZI 206.9  
 3974' INC 10.92 AZI 213.5  
 4067' INC 10.84 AZI 213.0  
 4161' INC 10.84 AZI 213.6  
 4255' INC 10.29 AZI 211.8  
 4349' INC 11.15 AZI 209.4  
 4444' INC 10.29 AZI 208.9  
 4537' INC 10.28 AZI 201.5  
 4631' INC 10.57 AZI 206.6  
 4726' INC 10.58 AZI 204.6  
 4821' INC 9.85 AZI 205.1  
 4970' INC 9.10 AZI 207.0

## ROCK TYPES

	Anhy
	Bent
	Brec
	Cht
	Clyst
	Coal
	Congl
	Dol

	Gyp
	Igne
	Lmst
	Meta
	Mrlst
	Salt
	Shale
	Shcol

	Shgy
	Slstst
	Ss
	Till
	Carb sh
	Dol
	Dtd
	Gry sh

	Sandylms
	Shale
	Slststn
	Shlyslts
	Sltysh
	Lms

### ACCESSORIES

#### MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr



- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff
- Chlorite
- Dol
- Sand
- Silty



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



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

#### FOSSIL

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

#### STRINGER

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

#### TEXTURE

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

### OTHER SYMBOLS

#### POROSITY TYPE

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

#### SORTING

- Well
- Moderate
- Poor

#### ROUNDING

- Rounded
- Subrnd
- Subang



Angular

#### OIL SHOWS

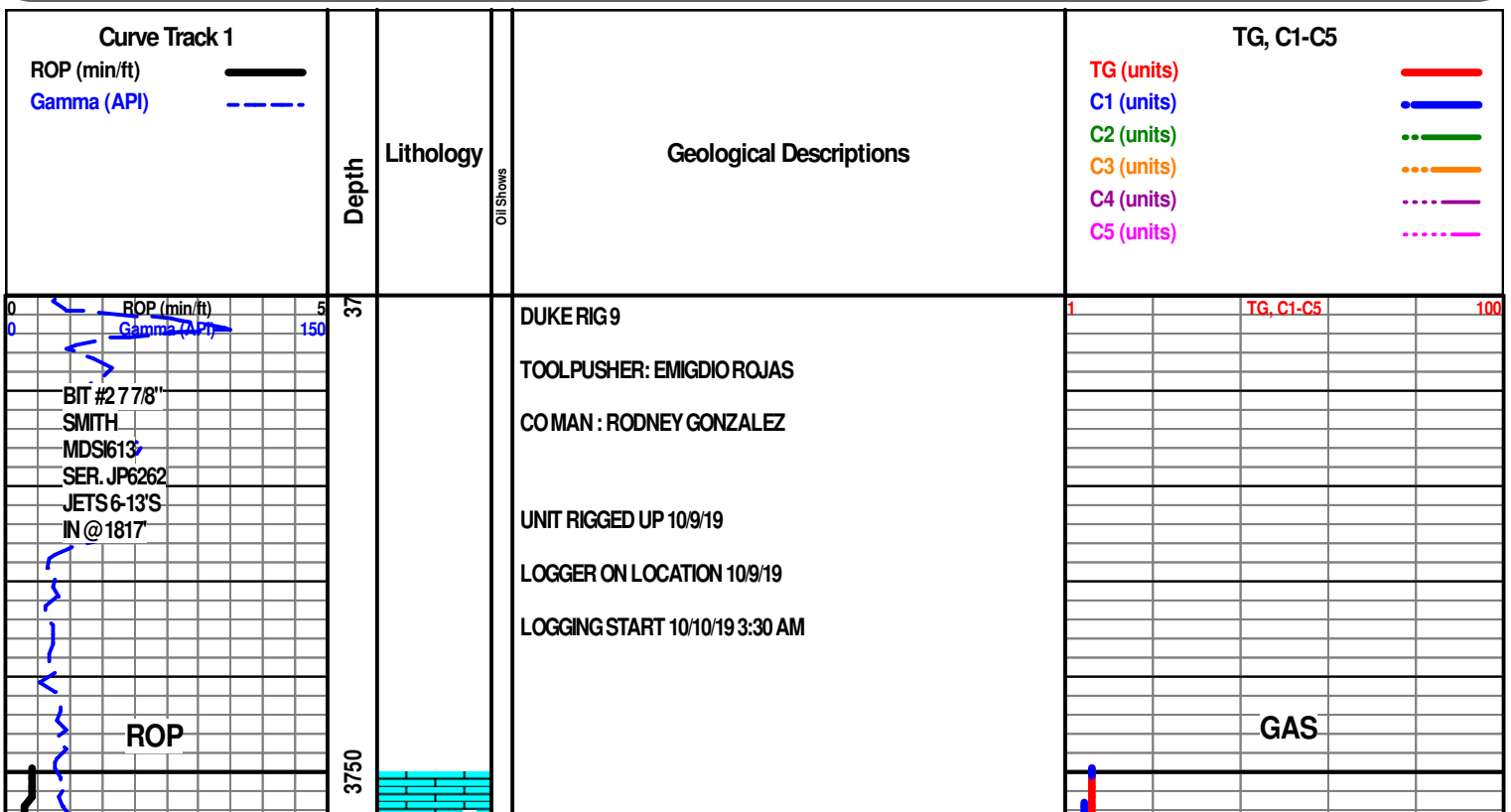
- Even
- Spotted
- Ques
- Dead
- Gas show

#### INTERVALS

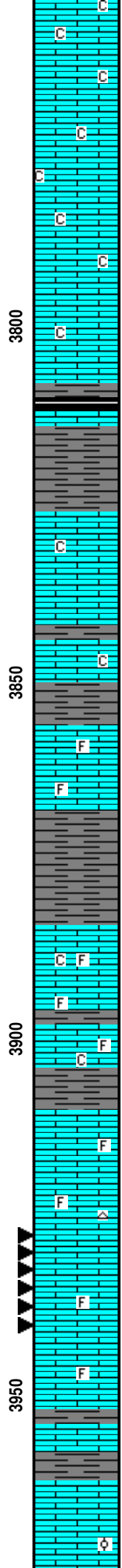
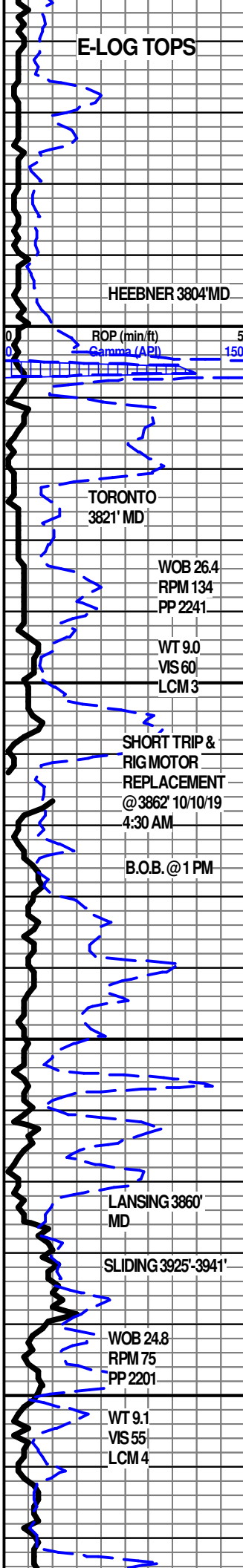
- Core
- Dst
- Dst

#### EVENTS

- Rft
- Sidewall







LS- OFF WHT TO CRM, HD DNS TO BRIT, FN XLN SUCRO MTRX, S-CHLKY, ABDT SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- OFF WHT TO CRM, HD DNS TO BRIT, FN XLN SUCRO MTRX, S-CHLKY, ABDT SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

**HEEBNER 3809' MD/3784' TVD -763' SS**  
SH- BLCK, SFT, SLTY TXT, CARB

SH- GRN LT GRY TO GRY, FRM BLKY, SMTH TXT

**TORONTO 3825' MD/3800' TVD -779' SS**

LS- CRM TO LT TN, HD DNS TO BRIT, FN XLN SUCRO MTRX, RE-XLN IP, S-CHLKY IP, SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- CRM TO LT TN, V/ HD DNS TO BRIT IP, FN TO MD XLN RE-XLN MTRX, S-SUCRO, TR IMBD FOSS FRG IP, TR SFT WHT CHLK IN TRAY, BRT YEL FLO IN 60%, PR INTR XLN POR IP, NO VIS SHOW

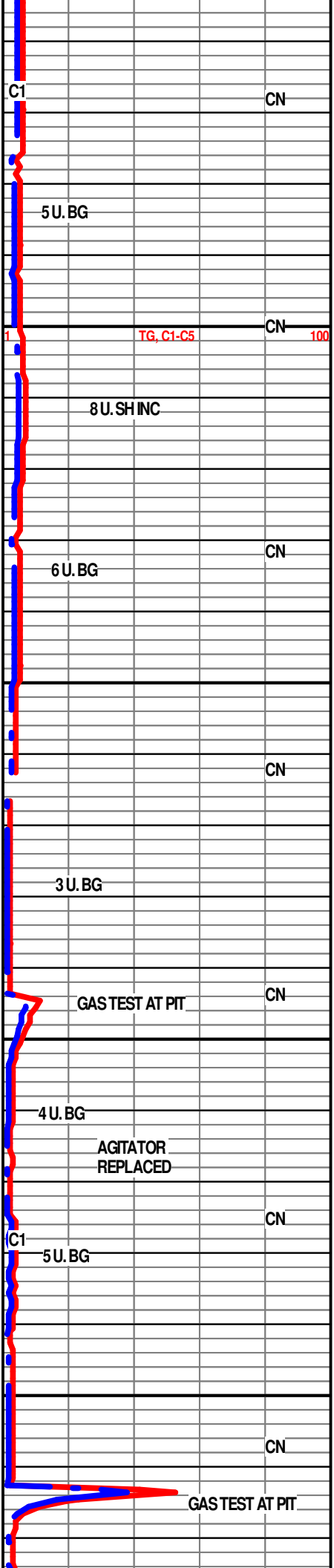
SH- GRN BRWN TO GRY, FRM BLKY, SILTY TO SMTH TXT

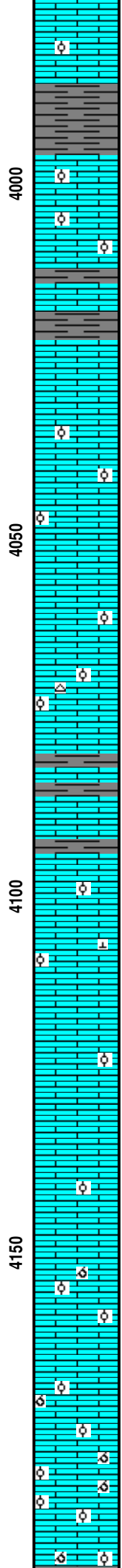
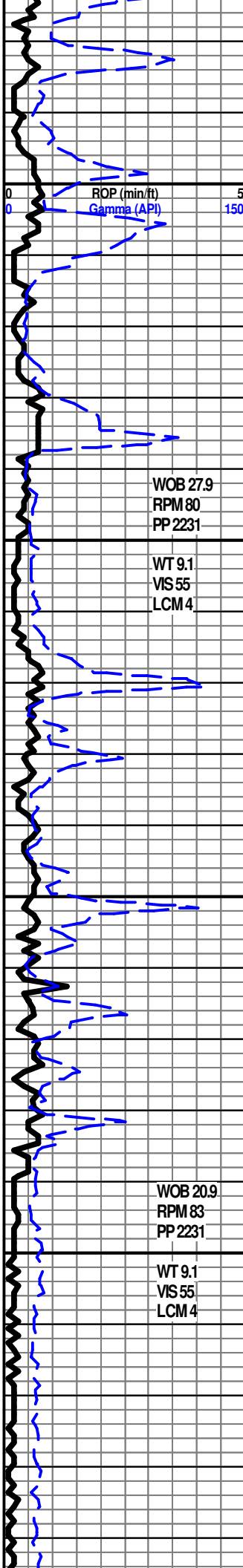
LS- CRM LT TN TO TN, HD DNS TO BRIT, FN TO MD XLN SUCRO MTRX, IMBD FOSS FRG IP, TR SFT WHT CHLK IN TRAY, BRT YEL FLO IN 50%, PR INTR FOSS POR IP, NO VIS CUT OR SHOW

LS- LT TN TO TN, HD DNS TO BRIT, FN XLN SUCRO MTRX, TR IMBD FOSS FRG IP, TR SFT WHT CHLK IN TRAY, TR FRSTY CHRT IN TRAY, BRT YEL FLO IN 50%, NO VIS POR, NO VIS CUT OR SHOW

LS- CRM TO LT TN, HD DNS TO BRIT, FN XLN SUCRO MTRX, S-CHLKY, TR IMBD FOSS FRG IP, BRT YEL FLO IN 50%, NO VIS POR, NO VIS CUT OR SHOW

LS- LT TN TO TN, HD DNS, FN XLN SUCRO MTRX, TR IMBD FOSS FRG IP, TR IMBD MICRO OOL IP, BRT YEL FLO IN 60%, NO





**IOLA 3996'MD/ 3970'TVD -949'SS**

LS- CRM TO LT TN, HD DNS TO BRIT, FN XLN SUCRO MTRX, S-CHLKY, IMBD MICRO OOL SCAT THRU, TR FRSTY CHRT IN TRAY, DUL YEL FLO IN 40%, PR INTR XLN POR IP, NO VIS CUT OR SHOW

SH- GRN TO GRY MOTT IP, FRM BLKY, SMTH TO SLTY TXT

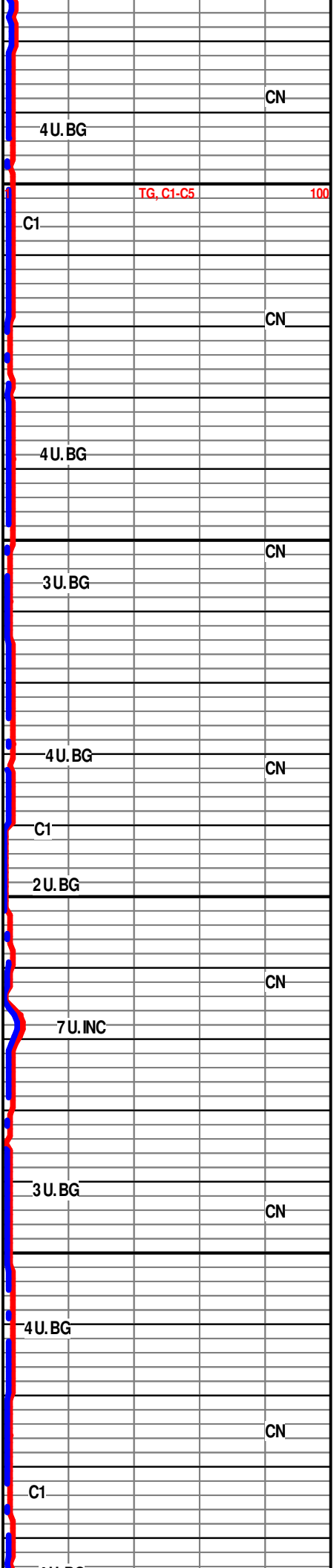
LS- LT TN TO TN, HD DNS TO BRIT, FN XLN SUCRO MTRX, IMBD MICRO OOL SCAT THRU, BRT YEL FLO IN 80%, PR INTR XLN POR SCAT THRU, NO VIS CUT OR SHOW

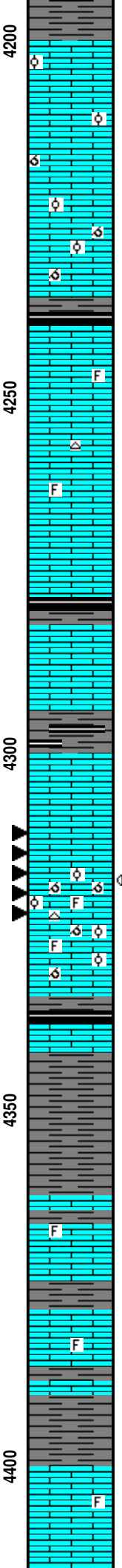
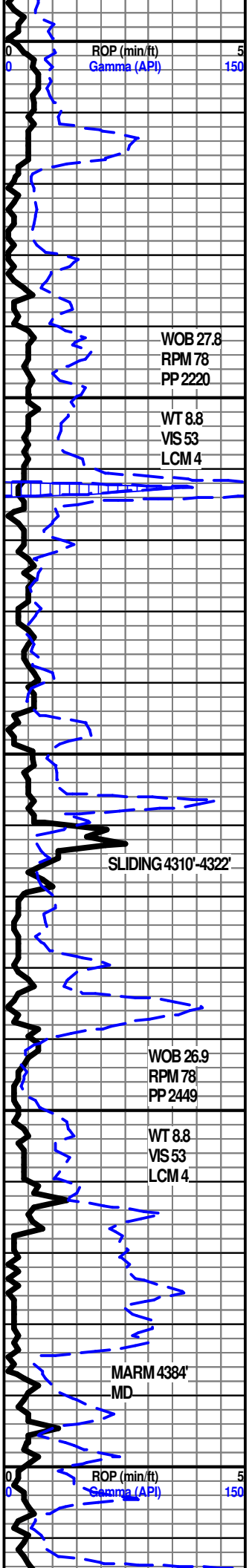
LS- CRM TO LT TN, HD DNS TO BRIT, FN XLN SUCRO MTRX, IMBD OOL SCAT THRU, TR FRSTY TO OFF WHT CHRT IN TRAY, BRT YEL FLO IN 60%, PR INTR OOL POR IP, NO VIS CUT OR SHOW

LS- LT TN TO TN, HD DNS TO BRIT, FN XLN SUCRO MTRX, ABDT IMBD OOL THRU, TR IMBD CALC XLS IP, SLI TR SFT WHT CHLK IN TRAY, DUL YEL FLO IN 30%, PR INTR OOL POR IP, NO VIS CUT OR SHOW

LS- CRM LT TN TO TN, HD DNS TO VBRIT, FN XLN SUCRO MTRX, S-CHLKY, ABDT IMBD OOL THRU, OOLCST IP, DUL YEL FLO IN 30%, PR INTR OOL POR SCAT THRU, PR OOLCST POR IP, NO VIS CUT OR SHOW

LS- CRM LT TN TO TN, HD DNS TO VBRIT, FN XLN SUCRO MTRX, S-CHLKY, ABDT IMBD OOL THRU, OOLCST THRU, BRT YEL FLO IN 70%, PR TO FR INTR OOL POR SCAT THRU, FR TO GD OOLCST POR THRU, NO VIS CUT OR SHOW





LS- TN TO DK TN, HD DNS TO TR BRIT, FN TO MD XLN SUCRO MTRX, ABDT IMBD OOL THRU, ABDT OOLCST THRU, BRT YEL FLO IN 80%, FR INTR OOL POR IP, FR TO GD OOLCST POR THRU, NO VIS CUT OR SHOW

**STARK 4236'MD/ 4203'TVD -1182'SS**

SH- BLCK, SFT, SPLNTY, SMTH TXT, CARB

LS- CRM TO LT TN, HD DNS TO BRIT, FN XLN SUCRO MTRX, TR IMBD FOSS FRG IP, SLI TR LT TN CHRT IN TRAY, BRT YEL FLO IN 80%, NO VIS POR, NO VIS CUT OR SHOW

SH- GRN BRWN TO TR BLCK, FRM BLKY, SLTY TXT, CARB IP

LS- LT TN TN TO DK TN (DUE TO OIL STN IN 30%) LOS IN 1%, HD DNS TO BRIT, FN XLN SUCRO MTRX, IMBD OOL SCAT THRU, V/ OOLCST IP, SLI TR IMBD FOSS FRG IP, TR CLR TO FRSTY CHRT IN TRAY, DUL YEL GLD FLO IN 20%, PR INTR XLN POR IP, FR INTR OOL POR SCAT THRU, PR TO FR OOLCST POR IP, GD FLSH CUT IN 30%, FR TO GD SLW STRM IN 40%, GD RING CUT ON DISH, WK OIL ODOR (SHOW CUTTINGS SEEMED TO CARRY FOR SEVERAL SAMPLES)

SH- GRN GRY TO DK GRY, FRM BLKY, SLTY TXT

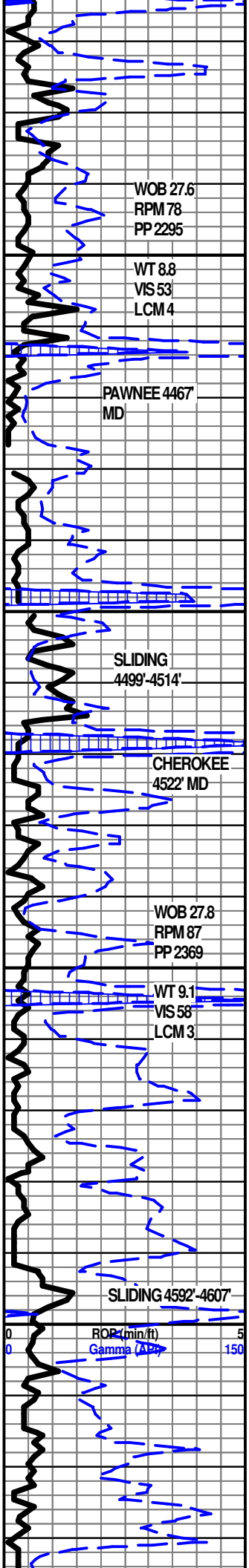
**MARM 4360'MD/ 4325'TVD -1304'SS**

LS- CRM TO LT TN, HD DNS TO BRIT, FN XLN SUCRO MTRX, S-CHLKY IP, IMBD FOSS FRG SCAT THRU, BRT YEL FLO IN 60%, NO VIS POR, NO VIS CUT OR SHOW

SH- GRY TO DK GRY, FRM BLKY, SMTH TO SLTY TXT,

LS- CRM LT TN TO TN, HD DNS TO V/ BRIT IP, VEN TO FN XLN

4 U. BG	TG, C1-C5	100
		CN
3 U. BG		CN
6 U. INC		CN
C1		
3 U. BG		CN
9 U. POSS SHOW		
		CN
4 U. BH		
		CN
6 U.		
C1		
4 U. BG		CN
	TG, C1-C5	100



LS- SHIMEL TN TO TN, HD DNS TO V/ BRIT IP, V/FN TO XLN SUCRO MTRX, TR IMBD FOSS FRG IP, SLI TR IMBD OOL IP, BRT YEL FLO IN 60%, PR INTR OOL POR IP, NO VIS CUT OR SHOW

SH- DK GRAY TO BLCK, SFT BLKY, SILTYTXT, CARB

**PAWNEE 4442' MD/ 4404' TVD -1383' SS**

LS- LT TN TN TO DK TN IP, HD DNS, FN XLN MTRX, S-SUCRO IP, IMBD FOSS FRG SCAT IP, TR LT TN CHRT IN TRAY, BRT YEL FLO IN 20%, PR INTR XLN POR IP, NO VIS CUT OR SHOW

3 PIECES OF OOL/ OOLCST LS W/ 10% OIL STN BUT NO CUT

SH- GRN RED BRWN DK GRAY TO BLCK, FRM BLKY, SLTY TO GRNY TXT

**CHEROKEE 4487 MD/4449' TVD -1428' SS**

LS & SH INTRBD -  
1 LS- LT TN TO TN, HD DNS TO BRIT, FN TO MD XLN SUCRO MTRX, RE-XLN IP, TR IMBD FOSS FRG IP, TR IMBD OOL IP, BRT YEL FLO IN 50%, TR PR INTR FOSS/OOL POR IP, NO VIS CUT OR SHOW  
2 SH- GRN GRAY TO DK GRAY, FRM BLKY, SLTY TO SMTH TXT

LS- LT TN TN TO GRAY, HD DNS, FN XLN SUCRO MTRX, IMBD OOL IP, OOLCST IP, TR IMBD FOSS FRG, DUL YEL FLO IN 60%, PR TO FR IP INTR OOL POR, PR OOLCST POR IP, NO VIS CUT OR SHOW

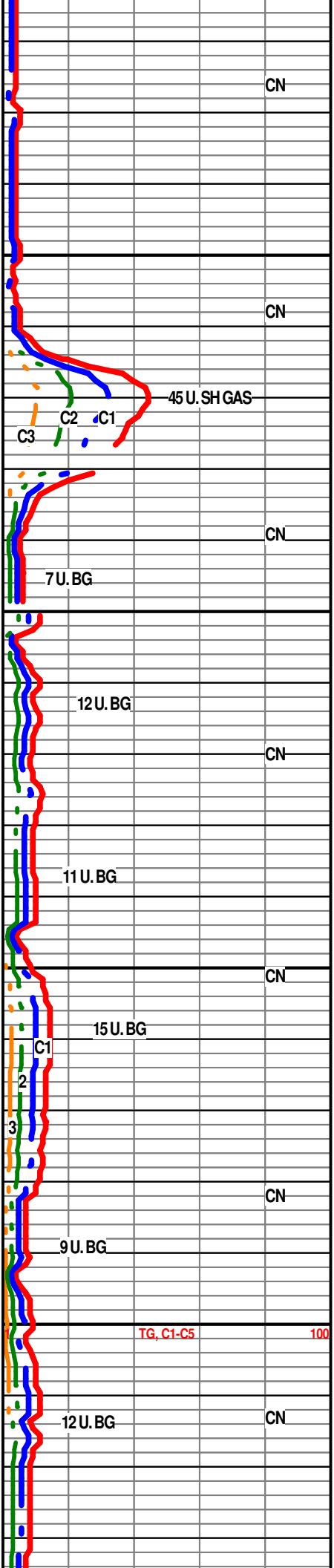
SH- GRN TO GRAY MOTT IP, FRM BLKY, SMTH TXT, TR IMBD DISS PYR IP

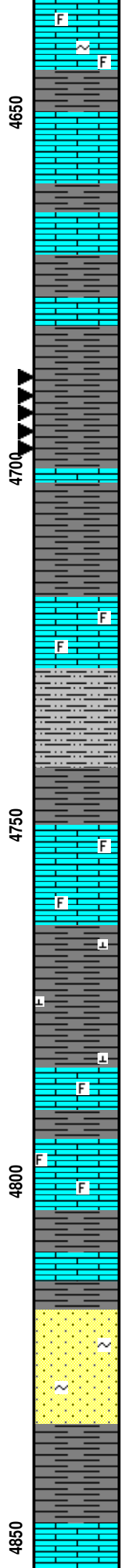
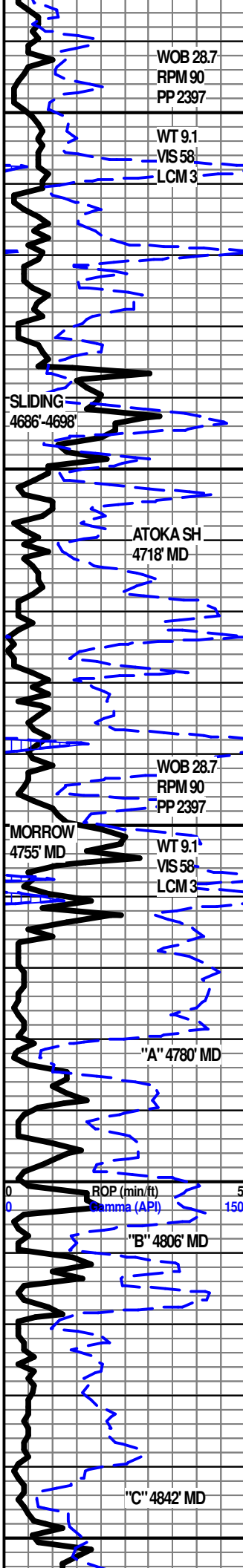
LS- TN DK TN TO GRAY, HD DNS TO BRIT, FN TO MD XLN V/ SUCRO MTRX, IMBD FOSS FRG IP, IMBD OOL IP, BRT YEL FLO IN 70%, PR INTR XLN POR SCAT THRU, PR INTR OOL POR IP, NO VIS CUT OR SHOW

SH- GRAY TO DK GRAY, FRM BLKY, GRNY TO SLTY TXT, SLI CALC THRU

LS- TN TO DK TN, HD DNS TO V/ BRIT IP, V/FN TO CRYPTO XLN MTRX, ABDT IMBD MICRO OOL IP, IMBD OOL IP, TR FN DISS PYR IP, DUL YEL FLO IN 50%, PR INTO OOL POR IP, NO VIS CUT OR SHOW

LS- LT TN TO TN, HD DNS TO BRIT, FN XLN SUCRO MTRX, IMBD FOSS FRG IP, SLI TR IMBD GLAUC IP, TR SFT WHT CHLK IN TRAY, DUL YEL GLD FLO IN 30%, PR INTR XLN POR IP, NO VIS





CUT OR SHOW

LS- LT TN TO TN, HD DNS TO BRIT IP, FN XLN SUCRO MTRX, IMBD FOSS FRG IP, IMBD DISS PYR IP, TR IMBD CALC XLS IP, DUL YEL FLO IN 25%, NO VIS POR, NO VIS CUT OR SHOW

SH- GRY TO TR GRN, FRM SPLNTY, SMTH TXT

LS- CRMLT TN TR BRWN IP DUE TO OIL STN, HD TO V/ BRIT, VSUCRO IP TO MD XLN, SLI TR S-CHLKY IP IMBD FOSS FRG, V/DUL YEL GLD FLO THRU, PR VIS MICRO PPPOR, POSS SCAT INTR FOSS POR IP, PR FLSH CUT, PR TO FR SLW MLKY BLU STRM IN 30% LIVE OIL DROPLETS IN TRAY, FR RING CUT ON DISH

SLTSTN- GRY TO DK GRY, ABDT V/V FN QTZ GRNS THRU, CALC IP, GRY SH IMBD THRU

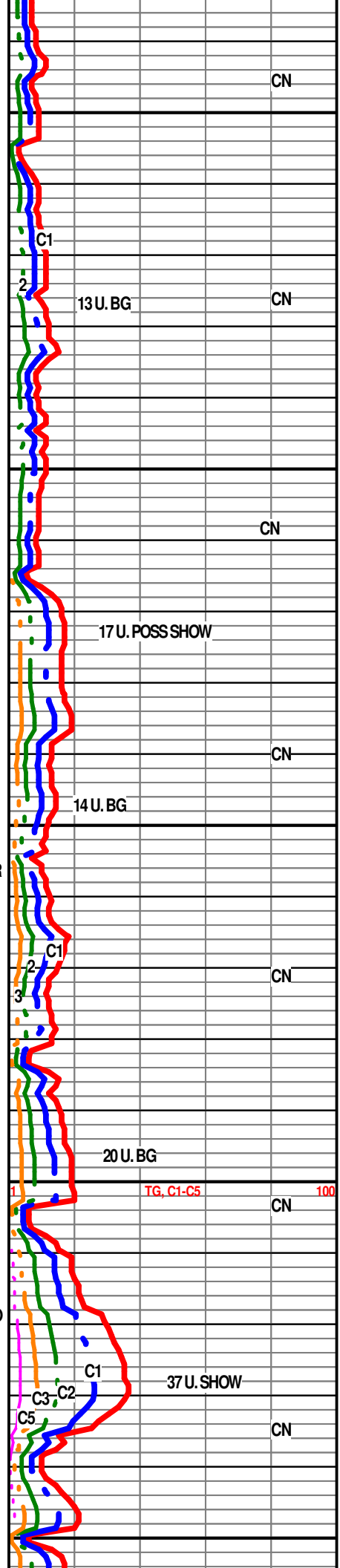
LS- CRMLT TN TO TN (DUE TO OIL STN IN 40%) HD DNS TO V/ BRIT, FN XLN SUCRO MTRX, ABDT IMBD FOSS FRG THRU, BRT YEL GLD FLO IN 40%, PR INTR FOSS POR SCAT IP, PR INTR FOSS POR IP, GD FLSH CUT, V/GD TO XLN MLKY BLU SLW STRM IN 60%, GD RING CUT ON DISH

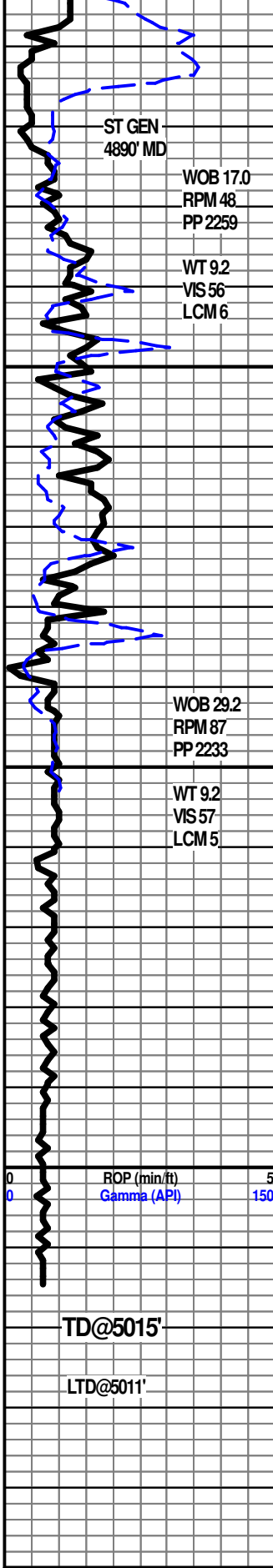
SH- GRY TO DK GRY, FRM SPLNTY TO SFT GMMY, SMTH TO SLTY TXT, CALC IP

LS- TN TO GRY, HD TO BRIT, FN XLN MTRX, ABDT IMBD SM RND QRTZ GRNS THRU, TR IMBD GLAUC IP, SLI TR FOSS FRG IP, DUL YEL FLO IN 50%, FR TO GD INTR GRN POR SCAT THRU, NO VIS CUT OR SHOW

SS- FRSTY OFF WHT TO TN (DUE TO OIL STN IN 75%), HD TT TO FRI, ABDT FN TO MD S-RND TO S-ANG GRN, WLL SRT, SIL CMNT, IMBD GLAUC SCAT IP, DUL YEL GLD FLO IN 60%, PR TO FR INTR GRN POR THRU, V/GD FLSH CUT THRU, V/GD TO EXL MLKY BLU SLW STRM THRU, GD RING CUT ON DISH, TR OIL FREE OIL IN TRAY, FR OIL ODOR

LS- DK TN, HD DNS, V/FN TO FN XLN SUCRO MTRX, DUL YEL FLO IN 20%, NO VIS POR, NO VIS CUT OR SHOW





ST GEN  
4890' MD

WOB 17.0  
RPM 48  
PP 2259

WT 9.2  
VIS 56  
LCM 6

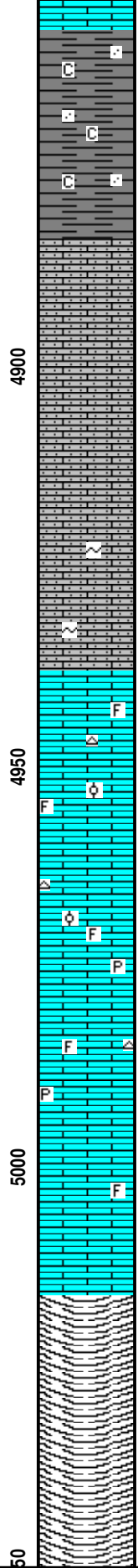
WOB 29.2  
RPM 87  
PP 2233

WT 9.2  
VIS 57  
LCM 5

ROP (min/ft)  
Gamma (API)

TD@5015'

LTD@5011'



SH- GRY GRN TO DK GRY, FRM SPLNTY TO SFT GMMY, SMTH TXT, SFT WHT CHLK IN TRAY, FN QRTZ GRNS IN TRAY

ST GEN 4885'MD/4842'TVD -1821'SS

LS- WHT TO OFF WHT, HD DNS TO V/BRIT IP, FN XLN SUCRO MTRX, ABDT IMBD V/V/FN QRTZ GRNS THRU, IMBD MICRO OOL THRU, NO VIS FLO, PR TO FR INTR GRN POR THRU, NO VIS CUT OR SHOW

LS- WHT TO OFF WHT, HD DNS TO V/BRIT IP, FN XLN SUCRO MTRX, ABDT IMBD V/V/FN QRTZ GRNS THRU, IMBD MICRO OOL THRU, SLI TR IMBD GLAUC, NO VIS FLO, PR TO FR INTR GRN POR THRU, NO VIS CUT OR SHOW

LS- CRM TO LT TN, HD DNS TO BRIT, FN XLN SUCRO MTRX, IMBD FOSS FRG IP, IMBD OOL IP, SLI TR TN CHRT IN TRAY, DUL YEL FLO IN 30%, PR TO FR INTR FOSS/OOL POR IP, NO VIS CUT OR SHOW

LS- CRM TO LT TN, HD DNS TO BRIT, FN XLN SUCRO MTRX, IMBD FOSS FRG IP, IMBD OOL IP, TR IMBD PYR CLSTR IP, SLI TR TN CHRT IN TRAY, DUL YEL FLO IN 30%, PR INTR FOSS/OOL POR IP, NO VIS CUT OR SHOW

LS- CRM TO LT TN, HD DNS TO V/ BRIT, FN XLN SUCRO MTRX, IMBD FOSS FRG IP, IMBD OOL IP, DUL YEL FLO IN 30%, PR INTR FOSS/OOL POR IP, NO VIS CUT OR SHOW

R.T.D. @ 5015' 9:25 AM 10/11/19

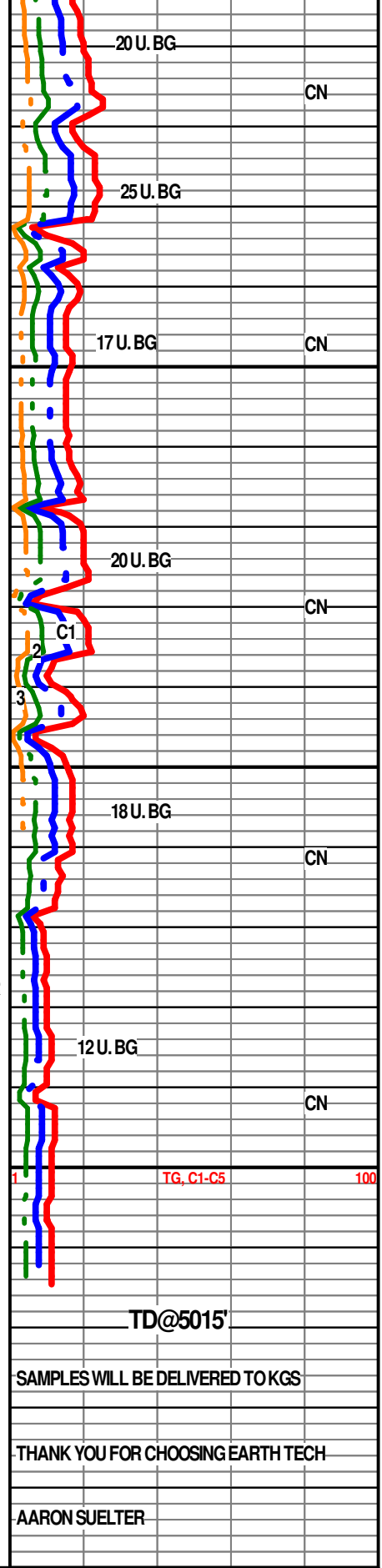
CTCH 1 HOUR

SHORT TRIP

CTCH

TOFL

HALIBURTON



20 U. BG

CN

25 U. BG

17 U. BG

CN

20 U. BG

CN

C1

2

3

18 U. BG

CN

12 U. BG

CN

TG, C1-C5

100

TD@5015'

SAMPLES WILL BE DELIVERED TO KGS

THANK YOU FOR CHOOSING EARTH TECH

AARON SUELTER

Merit Energy  
 Kearny Co, . KS  
 Molz 1-26 - Molz 1 -26  
 Molz 1-26

Measured Depth (ft)	Inc	Azimuth	Vertical Depth (ft)	Local Northing (ft)	Local Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
0	0	0	0	0	0	0	0
416	0.9	110.4	415.98	-1.14	3.06	-0.55	0.22
569	0.9	186.4	568.97	-2.75	4.05	0.35	0.72
725	0.4	203.4	724.96	-4.47	3.7	2.02	0.34
883	1.2	231.4	882.94	-6.01	2.19	4.11	0.55
1039	1.6	246.4	1038.9	-7.9	-1.08	7.38	0.35
1160	2	247.4	1159.84	-9.39	-4.58	10.42	0.33
1317	1.6	266.4	1316.76	-10.58	-9.3	13.81	0.45
1630	1.6	249.4	1629.64	-12.39	-17.75	19.61	0.15
1720	1.4	254.4	1719.61	-13.13	-19.98	21.37	0.27
1875	0.88	259.72	1874.58	-13.85	-22.98	23.49	0.34
1969	3.21	257.93	1968.51	-14.53	-26.26	25.72	2.48
2062	4.27	230.45	2061.32	-17.28	-31.48	30.71	2.21
2156	6.56	224.45	2154.89	-23.34	-37.94	39.19	2.51
2250	6.75	209.63	2248.27	-31.97	-44.43	49.92	1.83
2344	8.01	205.01	2341.49	-42.71	-49.93	61.97	1.48
2439	9	204.1	2435.44	-55.49	-55.76	75.95	1.05
2533	10.82	205.11	2528.04	-70.2	-62.51	92.06	1.94
2628	10.79	203.52	2621.35	-86.42	-69.84	109.78	0.32
2720	10.61	203.35	2711.75	-102.1	-76.64	126.74	0.2
2815	10.47	203.45	2805.15	-118.04	-83.54	144	0.15
2909	10.42	204.85	2897.59	-133.59	-90.51	160.96	0.28
3002	10.34	203.5	2989.07	-148.88	-97.37	177.62	0.28
3126	9.94	202	3111.13	-169.01	-105.82	199.28	0.39
3221	9.19	201.61	3204.81	-183.66	-111.68	214.9	0.79
3315	10.3	203.01	3297.45	-198.38	-117.73	230.67	1.21
3440	9.36	202.36	3420.62	-218.06	-125.97	251.83	0.76
3566	10.62	207.98	3544.71	-237.79	-135.31	273.59	1.26
3660	10.28	206.67	3637.15	-252.94	-143.14	290.62	0.44
3755	10.28	206.74	3730.62	-268.08	-150.76	307.55	0.01
3880	9.82	206.94	3853.7	-287.55	-160.61	329.33	0.37
3974	10.92	213.57	3946.17	-302.11	-169.17	346.22	1.72
4067	10.84	213.09	4037.5	-316.78	-178.81	363.74	0.13
4161	10.84	213.62	4129.82	-331.55	-188.53	381.39	0.11

4255	10.29	211.82	4222.23	-346.04	-197.85	398.6	0.68
4349	11.15	209.41	4314.59	-361.09	-206.74	416.08	1.03
4444	10.29	208.98	4407.93	-376.52	-215.36	433.75	0.91
4537	10.28	201.57	4499.44	-391.5	-222.44	450.27	1.42
4631	10.57	205.61	4591.89	-407.08	-229.25	467.16	0.84
4726	10.56	204.6	4685.28	-422.85	-236.64	484.51	0.2
4821	9.85	205.1	4778.77	-438.12	-243.71	501.27	0.75
4916	9.42	205.65	4872.43	-452.49	-250.52	517.12	0.46
4970	9.1	207.02	4925.73	-460.28	-254.37	525.79	0.72
5015	9.1	207.02	4970.16	-466.62	-257.61	532.9	0

All data are in feet unless otherwise stated. Directions and coordinates are relative to Grid North. Vertical depths are relative to RKB. Northings and castings are relative to Well.

The Dogleg Severity is in Degrees per 100 feet. Vertical Section is from Shot and calculated along Azimuth of 0.030° (Grid).

Coordinate System is NAD 1927 (NADCONUS) US State Plane 1927 exact solution, Kansas South 1502 Central meridian is -98.500°. Grid Convergence at Surface is -1.616°.

Based upon Minimum Curvature type calculations, at a Measured log of 5015.00 ft., the Bottom Hole Displacement is 533.00 ft., in the Direction of 2.030° (Grid).











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

**PRESSURE PUMPING** Job Log

Customer:	Merit Energy	Cement Pump No.:	37223 19572 14HRS	Operator TRK No.:	86531	
Address:	gardencity.invoices@meritenergy.com	Ticket #:	1718 19776 L	Bulk TRK No.:	27808 19578 Kirby	30464 37547 Corey
City, State, Zip:	PO Box 250 Holcomb Ks 67861	Job Type:	Z-42 Cement Surface Casing			
Service District:	1718-Liberal KS	Well Type:	OIL			
Well Name and No.:	Molz # 1-12 AFE 64513	Well Location:	26-23S-35W	County:	Kearny	State: Kansas

Type of Cmt	Sacks	Additives	Truck Loaded On		
A-Con Cement	515	3% Calcium Chloride, 1/2# Celloflake, 1# Gilsonite	27808 19578 Kirby	Front	Back
Class C Cement	165	2% Calcium Chloride, 1/4# Celloflake	30464 37547 Corey	Front	Back
				Front	Back

Lead/Tail:	Weight #1 Gal.	Cu/Ft/sk	Water Requirements	CU. FT.	Man Hours / Personnel	
<b>Lead:</b>	12.1	2.41	13.9	1241.15	TT Man Hours:	48
<b>Tail:</b>	14.8	1.34	6.33	221.1	# of Men on Job:	3

Time (am/pm)	(BPM)	Volume (BBLS)	Pumps		Pressure(Psi)		Description of Operation and Materials
			T	C	Tubing	Casing	
15:00pm							Arrived at location
15:30pm							Spot trucks/Rig up
17:30pm							Safety meeting
17:58pm						1500	Pressure test lines to 1500psi
18:01pm	3	10				300	Pump 10bbls of fresh water spacer
18:03pm	6	221				350	Pump 221bbls of lead from 515sks at 12.1lbs
18:51pm	6	39				100	Pump 39bbls of tail from 165sks at 14.8lbs
19:07pm							Shut down/Drop plug/Wash pump and lines
19:09pm							Start displacement of 112bbls with fresh water
19:15pm	5	20				100	20bbls gone
19:19pm	5	40				220	40bbls gone
19:24pm	5	60				320	60bbls gone
19:28pm	5	80				500	80bbls gone
19:32pm	5	100				700	100bbls gone/Slow down rate
19:36pm	3	112				1200	Bump plug/Hold for 2 minutes
19:38pm							Release pressure to check if float holds
							Got 40 bbls of cement to Surface
							Rig down
							Job completed
							Thanked company man and rig crew

Size Hole	12 1/4	Depth	1817		TYPE	Float Collar	
Size & Wt. Csg.	8 5/8 24#	Depth	1807	New / Used	Float Collar	1765.35	Depth
Landing Psi	500+	Depth			Retainer		Depth
Shoe Joint	41.65	Type			Perfs		CIBP

Customer Signature:	Basic Representative:	Victor A. Corona
	Basic Signature:	<i>Victor A. Corona</i>
	Date of Service:	10/8/2019

# Merit Energy 8 5/8 Surface/Molz 1-26 10/8/2019



# Pumping Order / Mixture

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

Well Name & No: Molz 1-26  
Location Supervisor: Victor A. Corona  
COMPANY REP. Rodney Gonzales

Differential Pressure 1477 psi  
Lift Pressure: 500 psi

## Recipe

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Pressure Test PSI: 1500

MAX PSI: 500

<b>10</b> BBLs OF FRESH WATER SPACER		
<b>221</b> BBLs LEAD SLURRY YIELD 2.41	12.1LBS	515SKS 13.9G/SK
<b>39</b> BBLs TAIL SLURRY YIELD 1.34	14.8LBS	165SKS 6.33G/SK

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

**112.0** BBLs OF DISPLACEMENT  
**100.0** BBLs @ 5 BPM  
**12.0** BBLs AT 2-3 BPM TO BUMP PLUG

**DISP PLUG WITH 112 BBLs OF H2O**





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

**PRESSURE PUMPING**

**Job Log**

Customer:	Merit Energy	Cement Pump No.:	38750-19842	Operator TRK No.:	96815
Address:	gardencity.invoices@meritenergy.com	Ticket #:	1718-19750	Bulk TRK No.:	14354-19808
City, State, Zip:	PO Box 250 Holcomb Ks 67851	Job Type:	Z-42 Cement Production Casing		
Service District:		Well Type:	OIL		
Well Name and No.:	Molz #1-26 AFE # 64513	Well Location:	26-23S-35W	County:	Kearny State: Kansas

Type of Cmt	Sacks	Additives	Truck Loaded On		
CLASS C 50/50 POZ	250	6%GYPSUM, 10%SALT, .5%C-17, 1/4#DEFOAMER, 5#GILSONITE, 1/4#POLYFLAKE	14354-19808	Front	Back
				Front	Back
				Front	Back

Lead/Tail:	Weight #1 Gal.	Cu/Ft/sk	Water Requirements	CU. FT.	Man Hours / Personnel	
<b>Lead:</b>	13.6	1.57	7.18	392.5	Man Hours:	22
<b>Tail:</b>					# of Men on Job:	3

Time (am/pm)	(BPM)	Volume (BBLS)	Pumps		Pressure(PSI)		Description of Operation and Materials
			T	C	Tubing	Casing	
8:30							ON LOC, SAFTET MTG, R.U.
10:35						3500	TEST LINES
10:37 AM	1.7	12				170	PUMP MUD FLUSH
10:42 AM	3.1	5				260	H2O SPACER
10:47 AM							PLUG RAT AND MOUSE
10:56	7					430	START MIXING 200SX @ 13.6#
11:10		56					SHUT DOWN, DROP PLUG, WASHUP
11:19 AM	7					160	START DISPLACEMENT
11:41	2.4	105				780	SLOW RATE
11:45		115				980-1580	PLUG DOWN
11:50							RELEASE PSI, FLOAT HELD
							JOB COMPLETE
							THANK YOU FOR YOUR BUSINESS!!!

Size Hole	7 7/8	Depth	5015'		TYPE	
Size & Wt. Csg.	5 1/2 17	Depth	5015'	New / Used	Packer	Depth
tbg.		Depth			Retainer	Depth
Shoe	42.93'	Type			Perfs	CIBP

Customer Signature:	Basic Representative:	CHAD HINZ
	Basic Signature:	
	Date of Service:	10/12/2019





