

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	WENU 103
Doc ID	1515156

Tops

Name	Top	Datum
HEEBNER	4016	.
TORONTO	4032	.
LANSING	4118	.
SWOPE	4532	.
HERTHA	4598	.
MARMATON	4690	.
PAWNEE	4804	.
CHEROKEE	4857	.
ATOKA	5030	.
MORROW	5182	.
ST GENEVIEVE	5462	.



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

Well Name: WENU 103
Well Id:
Location: Sec. 4 T28S R34W, Haskell Co., Kansas
License Number: 15-081-22209
Spud Date: Feb. 8, 2020
Surface Coordinates: 2112' FWL & 2015' FNL
Region: Wildcat
Drilling Completed: Feb. 12, 2020
Bottom Hole Coordinates:
Ground Elevation (ft): 3081' K.B. Elevation (ft): 3093'
Logged Interval (ft): 4000' To: 5595' Total Depth (ft): 5595'
Formation: Morrow
Type of Drilling Fluid: Natural Chemical

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

OPERATOR

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


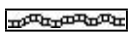


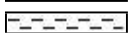
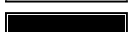

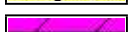
GEOLOGIST





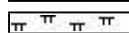

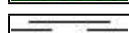
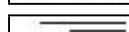
Name: Tim Hedrick/ Aaron Suelter
Company: Earth Tech OGL, Inc
Address: PO Box 683
Hooker, Oklahoma 73945
Off: 580-754-0062 Cell: 620-600-0777

SURVEYS






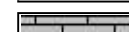
1895' INC 0.4 AZI 297.2
 2051' INC 0.4 AZI 40.2
 2237' INC 0.2 AZI 98.2
 2397' INC 0.2 AZI 46.2
 2551' INC 0.1 AZI 349.2
 2709' INC 0.4 AZI 337.2
 2867' INC 0.6 AZI 7.2
 3024' INC 0.8 AZI 19.2
 3182' INC 0.5 AZI 48.2
 3337' INC 0.6 AZI 33.2
 3489' INC 1.3 AZI 66.2
 3645' INC 2.9 AZI 79.2
 3786' INC 2.9 AZI 89.2
 3833' INC 3.2 AZI 89.2
 3928' INC 3.6 AZI 92.2
 4054' INC 3.8 AZI 96.2
 4149' INC 4.0 AZI 99.2
 4241' INC 4.1 AZI 103.2
 4335' INC 4.0 AZI 104.2
 4430' INC 4.3 AZI 101.2
 4522' INC 4.4 AZI 102.2
 4651' INC 4.1 AZI 103.2
 4712' INC 4.3 AZI 106.2
 4807' INC 4.2 AZI 106.2
 4994' INC 4.4 AZI 123.2
 5084' INC 4.7 AZI 124.4
 5180' INC 4.8 AZI 125.2
 5274' INC 3.9 AZI 126.2
 5369' INC 3.8 AZI 127.2
 5463' INC 3.7 AZI 130.2
 5559' INC 3.6 AZI 127.2

ROCK TYPES

	Anhy
	Bent
	Brec
	Cht
	Clyst
	Coal
	Congl
	Dol

	Gyp
	Igne
	Lmst
	Meta
	Mrlst
	Salt
	Shale
	Shcol

	Shgy
	Sltst
	Ss
	Till
	Carb sh
	Dol
	Dtd
	Gry sh

	Sandylms
	Shale
	Sltstn
	Shlyslts
	Sltyslts
	Lms

ACCESSORIES

MINERAL

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

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

- 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
- Finxln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

OTHER SYMBOLS

POROSITY TYPE

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

SORTING

- Well
- Moderate
- Poor

- Angular

INTERVALS

- Core
- Dst
- Dst

ROUNDING

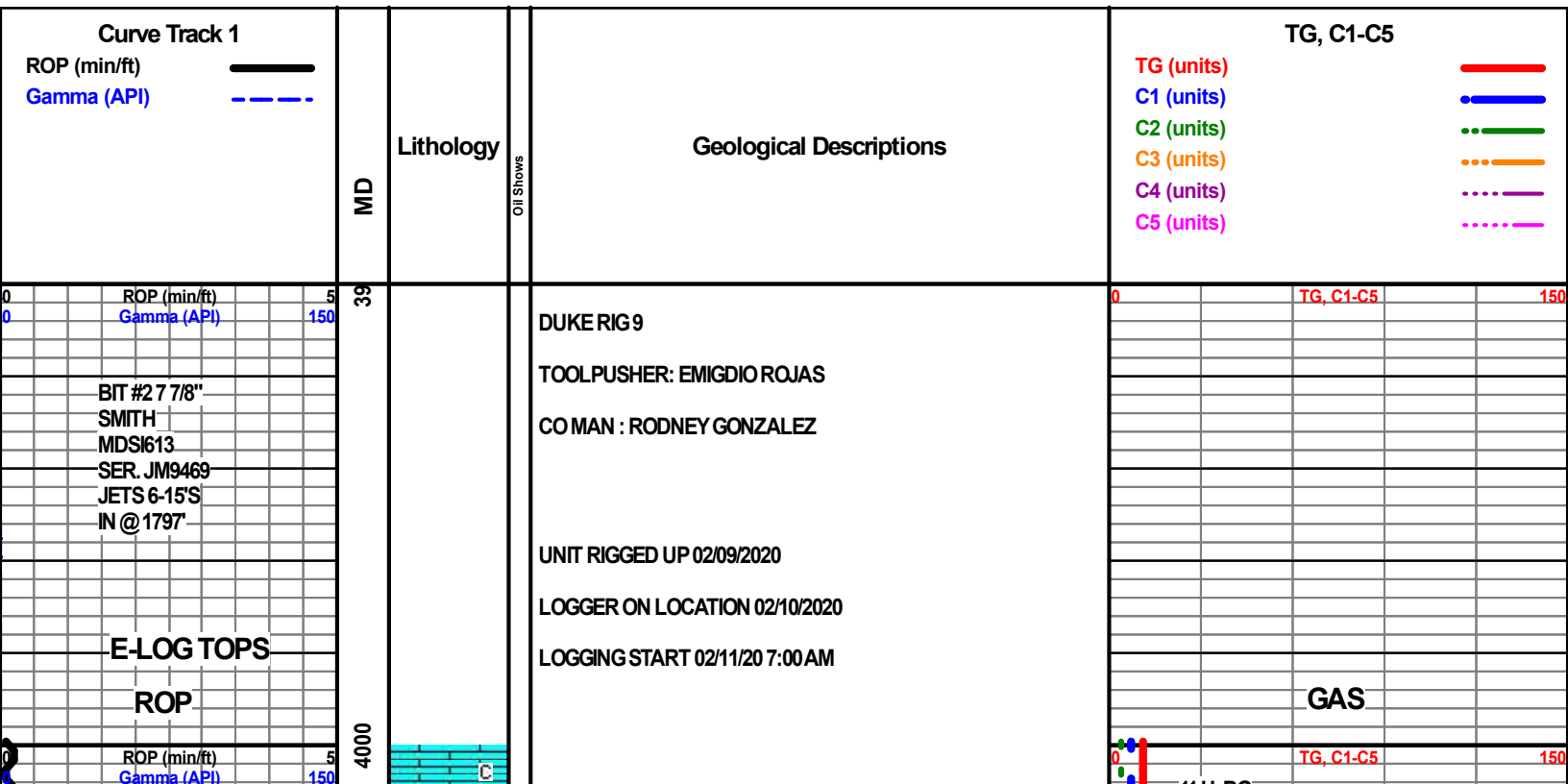
- Rounded
- Subrnd
- Subang

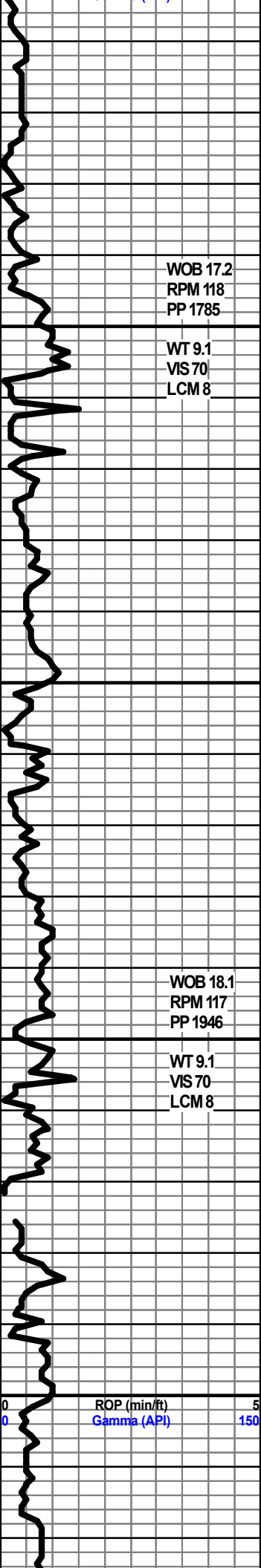
OIL SHOWS

- Even
- Spotted
- Ques
- Dead
- Gas show

EVENTS

- Rft
- Sidewall





WOB 17.2
RPM 118
PP 1785

WT 9.1
VIS 70
LCM 8

WOB 18.1
RPM 117
PP 1946

WT 9.1
VIS 70
LCM 8

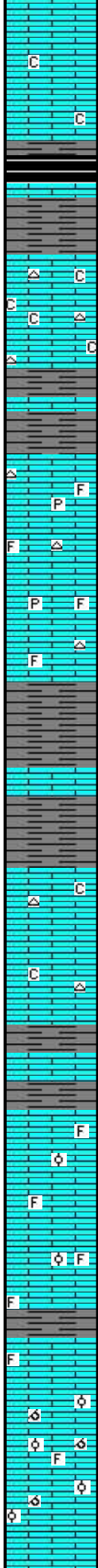
ROP (min/ft) 5
Gamma (API) 150

4050

4100

4150

4200



LS- OFF WHT TO CRM, FRM TO SFT, FN XLN CHLKY MTRX, S-SUCRO IP,ABDT SFT WHT CHLK IN TRAY, NO VIS FLO, PR INTR XLN POR IP, NO VIS CUT OR SHOW

HEEBNER 4024' -931'

TORONTO 4040' -947'

LS- CRM, FRM TO BRIT, FN XLN SUCRO MTRX, S-CHLKY IP, ABDT SFT WHT CHLK IN TRAY, FRSTY TO OFF WHT CHRT IN TRAY, LT YEL FLO IN 20%, NO VIS POR, NO VIS CUT OR SHOW

SH- LT GRY TO LT GRN,

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

SH- LT GRY TO DK GRY, FRM BLKY, SMTH TO SLTYTXT

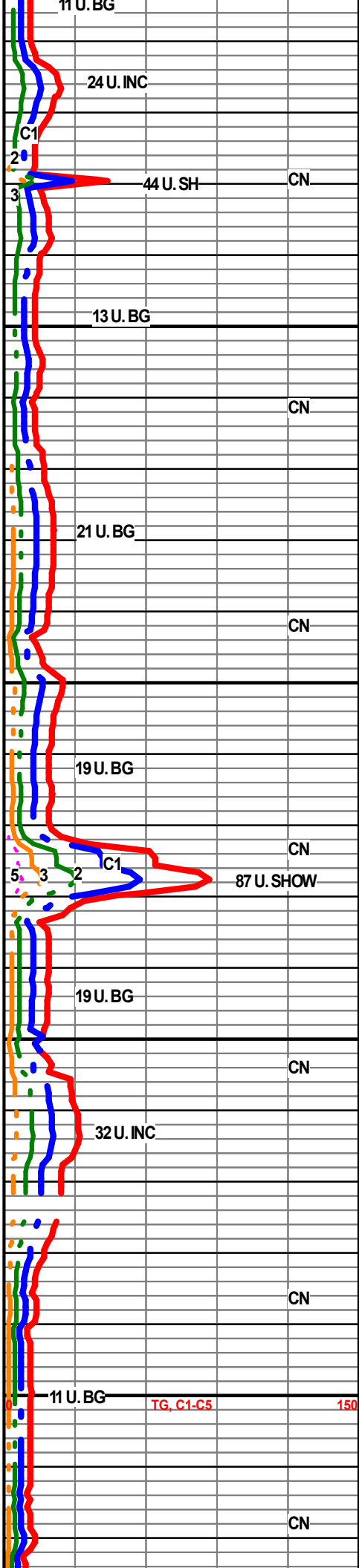
LANSING 4126' -1033'

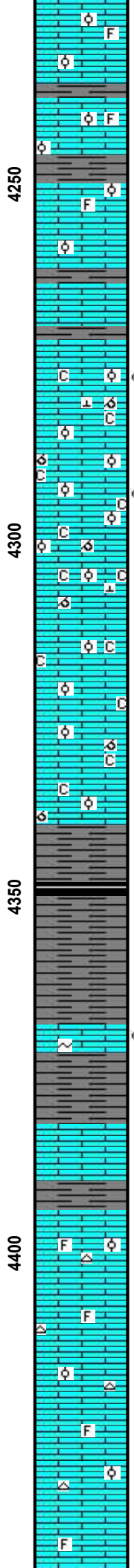
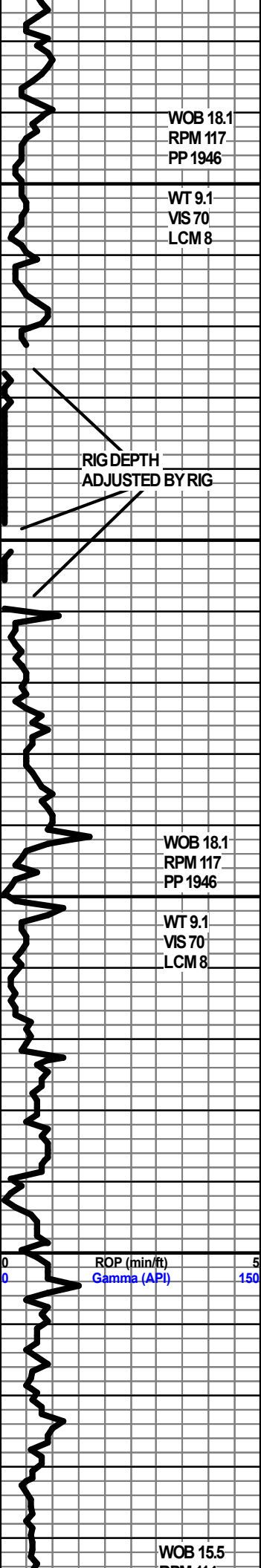
LS- OFF WHT CRM TO TN (DUE TO OIL STN IN 30%), HD DNS TO V/BRIT, FN XLN SUCRO MTRX, FRSTY TO OFF WHT CHRT IN TRAY, TR SFT WHT CHLK IN TRAY, BRT YEL GLD FLO IN 30%, PR MICRO PP POR IP, PR IN TR XLN POR IP, PR TO FR FLSH CUT, FR TO GD SLW STRM IN 40%, GD RING CUT ON DISH, GD OIL ODOR

SH- LT GRN GRY TO DK GRY, FRM TO SFT BLKY, SLTYTXT

LS- OFF WHT TO CRM, HD DNS TO BRIT, FN XLN SUCRO MTRX, IMBD FOSS FRG IP, TR IMBD OOL IP, BRT YEL FLO IN 20%, PR INTR FOSS POR IP, NO VIS CUT OR SHOW

LS- CRM LT TN TO LT GRY, HD DNS TO BRIT IP, FN XLN SUCRO MTRX, S-CHLKY IP,ABDT OOL IP, OOLMLD IP, IMBD FOSS FRG IP, LT YEL FLO IN 25%, PR INTR COL POR IP, PR OOLMLD POR IP, NO VIS CUT OR SHOW





LS- CRM TO LT TN, HD DNS, FN XLN SUCRO MTRX, IMBD OOL IP, TR IMBD FOSS FRG IP, TR SFT WHT CHLK IN TRAY, LT YEL FLO IN 30%, NO VIS POR, NO VIS CUT OR SHOW

LS- LT TN TO TN (DUE TO OIL STN IN 20%), HD DNS TO V/ BRIT, FN XLN SUCRO MTRX, S-CHLKY IP, ABTD IMBD OOL THRU, TR OOLCST SCAT THRU, SLI TR IMBD CALC CLSTRS, BRT YEL GLD FLO N 20%, PR TO FR INTR OOL POR IP, FR OOLCST POR IP, V/ABDT SFT WHT CHLK IN TRAY, SLI TR GD TO V/ GD INTR CALC XLN POR IP, GD TO EXCL FLSH CUT IN 25%, FR TO GD SLW STRM IN 25%, PR RING CUT ON DISH, FR OIL ODOR

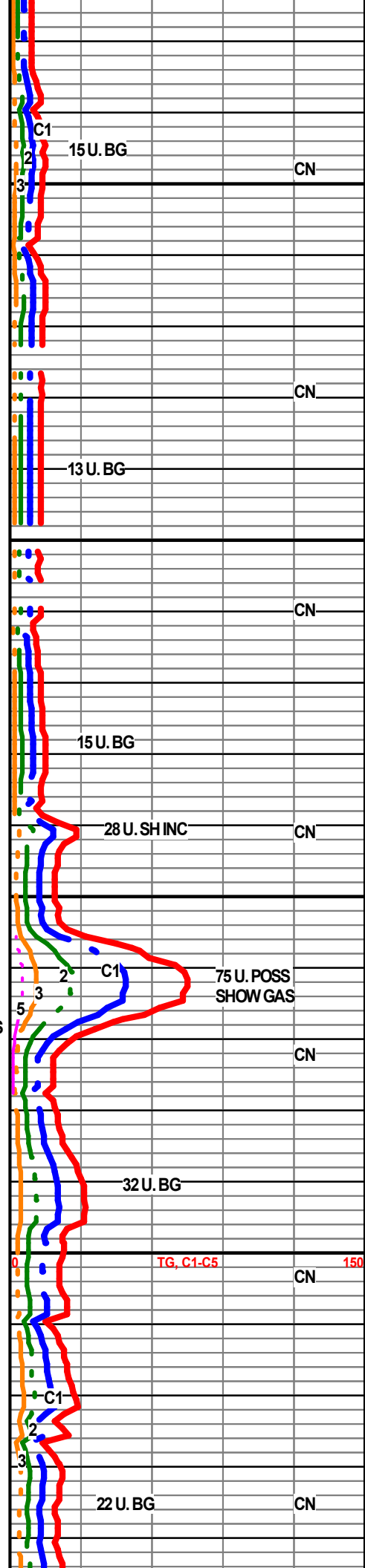
LS- LT TN TO TN, HD DNS TO TR BRIT, FN TO MD XLN RE-XLN MTRX, S-SUCRO, IMBD OOL IP, OOLCST IP, SFT WHT CHLK IN TRAY, LT YEL FLO IN 20%, PR INTR OOL POR IP, PR TO FR OOLCST POR IP, NO VIS CUT OR SHOW

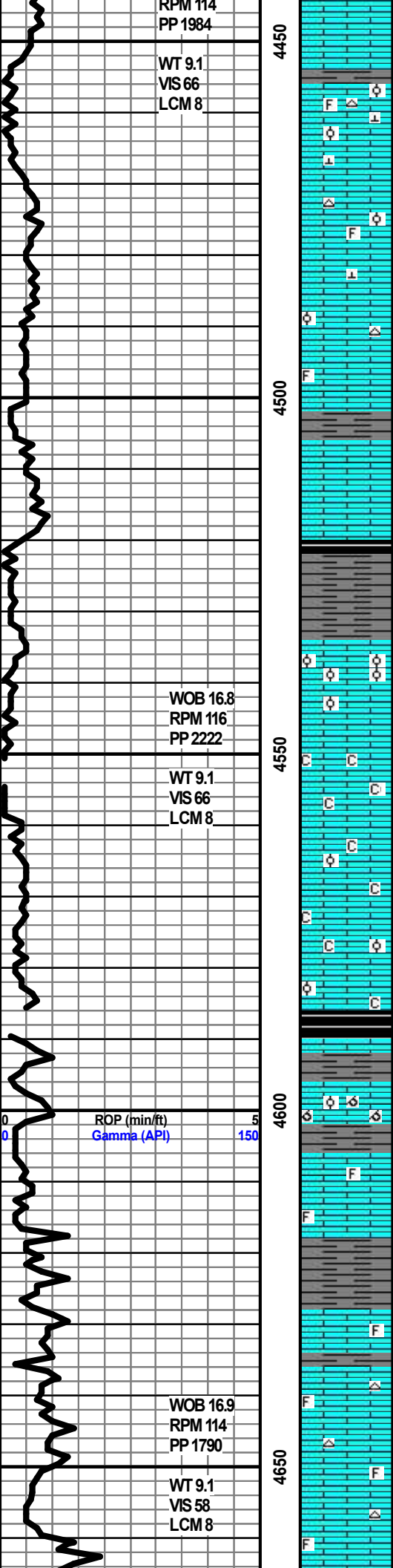
SH- GRAY TO DK GRAY, FRM BLKY TO SPLNTY, SLTY TO GRNY TXT, CALC IP

LS- OFF WHT CRM TO LT TN (DUE TO OIL STN IN 40%), HD DNS TO BRIT, FN XLN SUCRO MTRX, V/ SLI TR IMBD GLAUC, BRT YEL GLD FLO IN 50%, PR MICRO PP POR IP, NO FLSH CUT, PR TO FR RING CUT ON DISH, WK OIL ODOR

LS- LT TN TO LT GRAY, HD DNS TO V/ BRIT, FN XLN SUCRO MTRX, IMBD FOSS FRG IP, TR IMBD OOL IP, SFT WHT CHLK IN TRAY, TR FRSTY OFF WHT TO LT TN CHRT IN TRAY, DUL YEL FLO IN 10%, PR INTR FOSS POR IP, NO VIS CUT OR SHOW

LS- CRM TO LT TN, HD DNS TO BRIT IP, FN XLN SUCRO MTRX,





TR S-CHLKY, TR IMBD OOL SCAT IP, TR IMBD FOSS FRG IP, SFT WHT CHLK IN TRAY, DUL YEL FLO IP, PR INTR OOL POR IP, NO VIS CUT OR SHOW

LS- CRM TO LT TN, HD DNS TO BRIT, FN XLN SUCRO MTRX, IMBD OOL IP, TR IMBD & FREE FOSS FRG IP, IMBD CALC CLSTR IP, TR FRSTY CHRT IN TRAY, DUL YEL FLO IN 20%, PR INTR OOL/FOSS POR IP, SLI TR FR INTR CALC XLN POR IP, NO VIS CUT OR SHOW

STARK 4520' -1427'

SH- GRYDK GRY TO TR BLCK, FRM BLKY, SLTY TXT

LS- CRM TO LT TN (DUE TO OIL STN IN 20%), HD DNS TO BRIT, FN XLN SUCRO MTRX, ABDT IMBD OOL THRU, SFT WHT CHLK IN TRAY, BRT YEL GLD FLO IN 10%, PR INTR OOL POR IP, NO FLSH CUT, PR RING CUT ON DISH, WK OIL ODOR

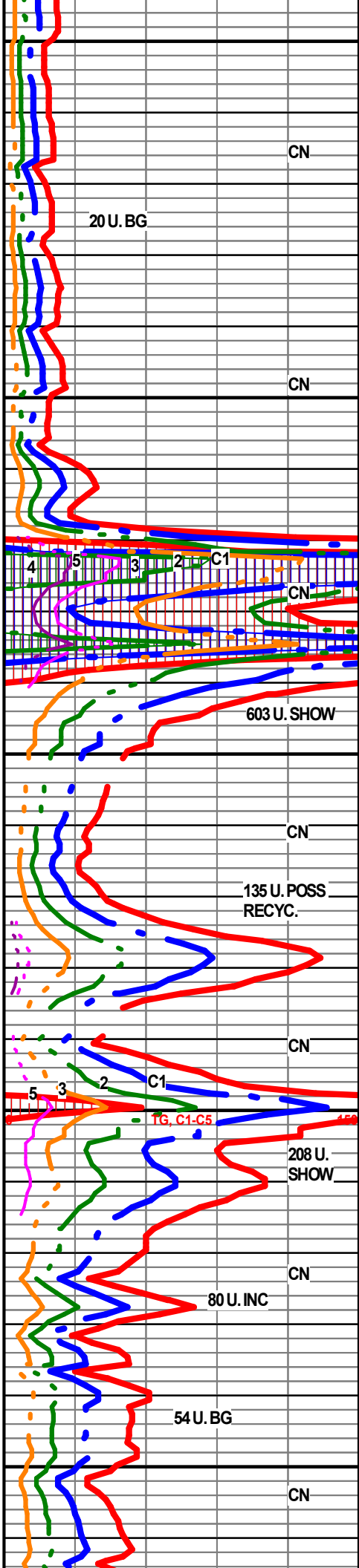
LS- OFF WHT CRM TO TN, HD DNS TO SFT, FN XLN SUCRO MTRX, S-CHLKY, IMBD OOL IP, ABDT SFT WHT CHLK IN TRAY, BRT YEL FLO IN 20%, PR INTR XLN POR IP, NO VIS CUT OR SHOW

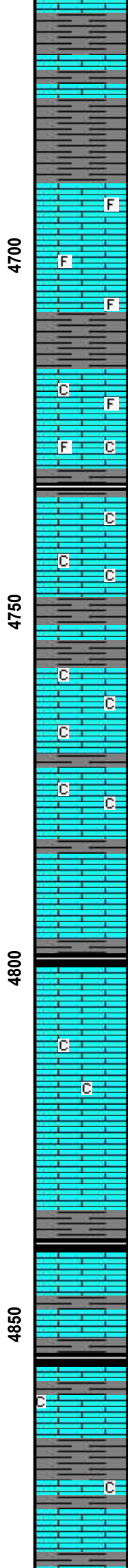
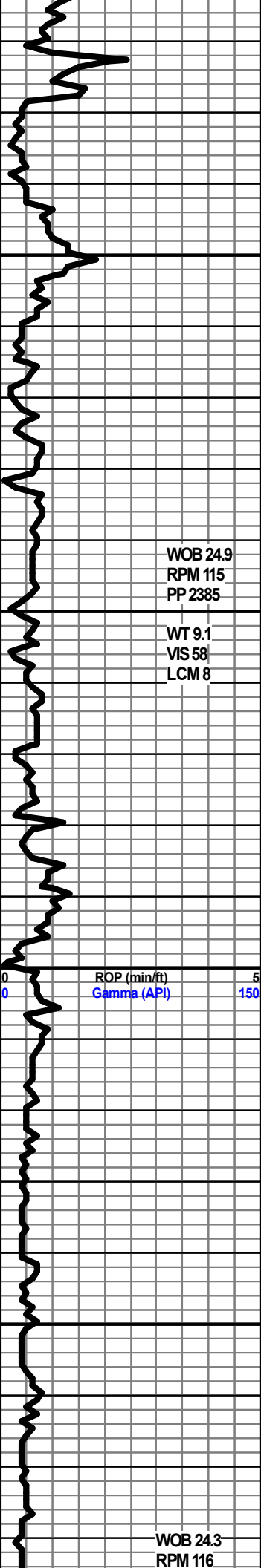
HUSH. 4586' -1493'

LS- CRM TO LT TN (DUE TO OIL STN IN 30%), HD DNS TO BRIT, FN XLN SUCRO MTRX, IMBD OOL IP, OOLCST THRU, BRT YEL GLD FLO IN 40%, PR TO FR OOLCST POR IP, FR MICRO VUG POR IP, FR FLSH CUT, FR SLWS STRM IN 30-40%, GD RNG CUT ON DISH

SH- GRY, FRM BLKY, SLTY TXT

LS- LT TN TO TN, HD DNS TO BRIT, FN TOMD XLN RE-XLN MTRX, S-SUCRO, IMBD FOSS FRG IP, SFT WHT CHLK IN TRAY, FRSTY OFF WHT TO TN CHRT IN TRAY, LT YEL FLO IN 20%, PR INTR XLN POR IP, NO VIS CUT OR SHOW





SH- GRYTODK GRY, FRM BLKY, V/ SILTYTXT

MARMATON 4689' -1596'

LS- CRM TO LT TN, HD DNS TO V/ BRIT, FN XLN SUCRO MTRX, TR IMBD FOSS FRG IP, SFT WHT CHLK IN TRAY, BRT YEL GLD FLO IN 5%, PR MICRO PP POR IP, V/ PRRNG CUT ON DISH

LS- CRM LT TN TN HD DNS TO TR BRITT, MED TOF-XLN, SLIO S-CHLKY IP, TR FOSS FRGS IP, TR SFT WHT CHLK IP, DLL YEL MIN FLO IP TO NO FLO, NO VIS POR, NO VIS SHOW OR CUT

LS- OFF WHT CRM LT TN IP, HD IP TO SFT, MED-XLN TO SUCRO S-CHLKY IP TO ABDT FRM TO SFT CHLK IP, SLI TR FOSS FRGS, LT YEL MIN FLO IP, NO VIS POR, NO VIS SHOW OR CUT

LS- OFF WHT CRM BFF- HD TO V/ BRITT, SUCRO S-CHLKY TO CHLKY MTRX, TR IMBD LT GY SH IP, LT YEL MIN FLO, NO VIS POR, NO VIS SHOW

PAWNEE 4800' -1707'

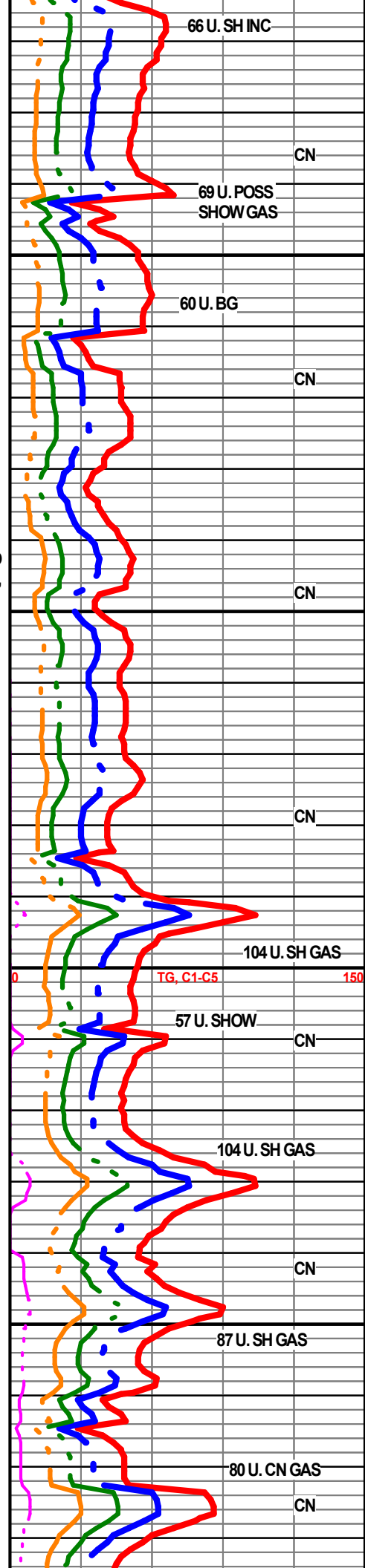
SH- BLK CARB

LS- CRM BFF LT TN- HD V/ BRITT, MED-XLN, SLI S-CHLKY IP, EMBED MED CALC XLS SCATTERED THRU, BRIT YEL GLD FLO IN 30% TO DLL YEL FLO IP, PR VIS INTER-XLN POR IP, SLI TR MICRO OOLCST IP, NO FL SH CUT, PR TO TR FR RING CUT

SH- BLK CARB TO DK GY IP V/ CALC IP

CHEROKEE 4854' -1761'

LS- OFF WHT CRM LT GY IP, HD DNS TO BRITT, MED XLN TO SUCRO S-CHLKY SLI TR IMBD DK GY SH IP, TR FOSS FRGS, LT YEL FLO IP, NO VIS POR, NO VIS SHOW

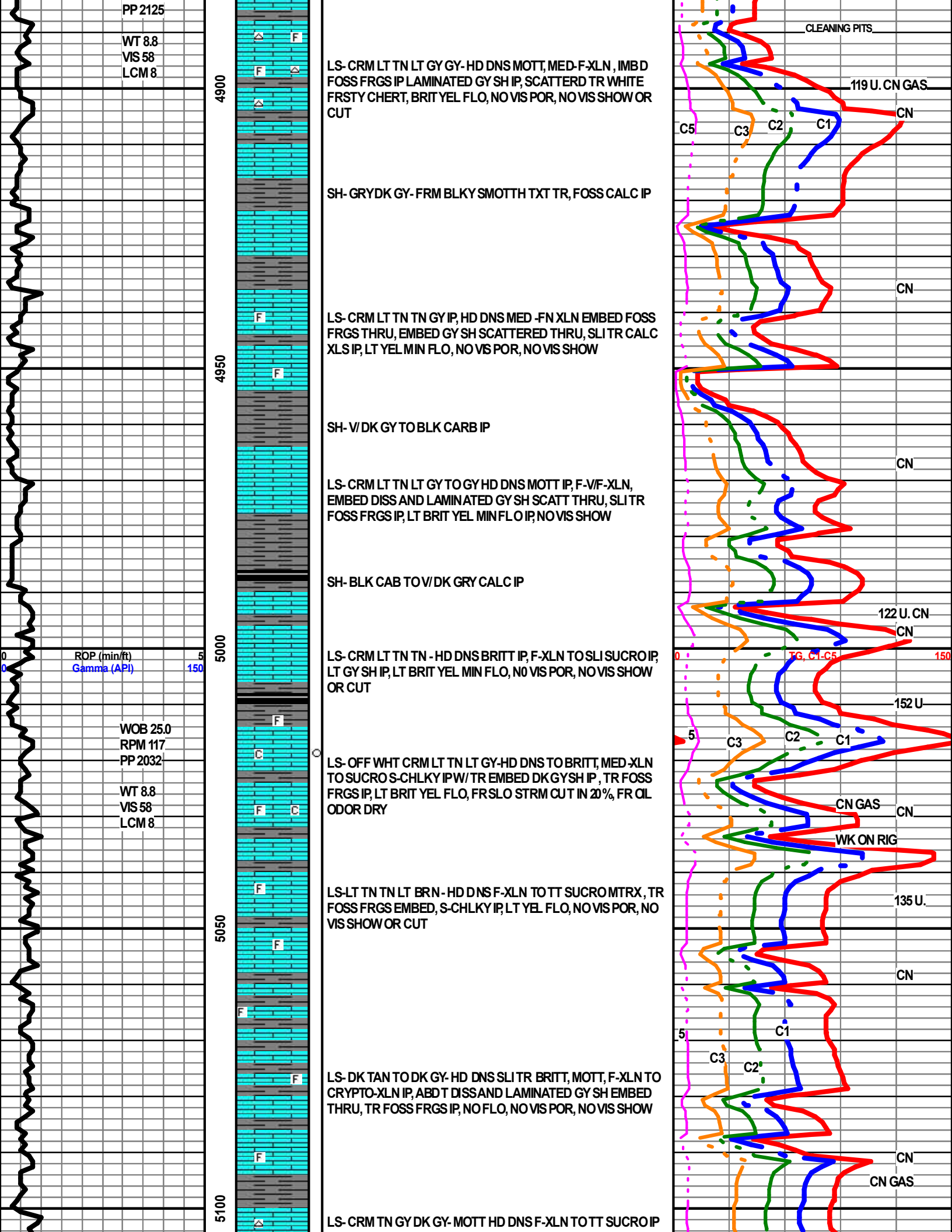


WOB 24.9
RPM 115
PP 2385

WT 9.1
VIS 58
LCM 8

ROP (min/ft)
Gamma (API)

WOB 24.3
RPM 116



WOB 24.0
RPM 118
PP 2145

WT 8.8
VIS 58
LCM 8

AT 5173'
WOB 12.8
RPM 114
PP 2086

WT 9.2
VIS 54
LCM 8

ROP (min/ft) 5
Gamma (API) 150

WOB 13.8
RPM 104
PP 2280

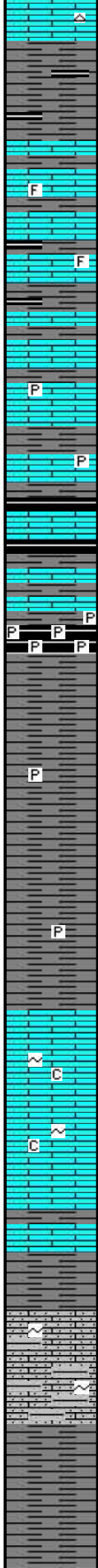
WT 9.0
VIS 58
LCM 8

5150

5200

5250

5300



ABDT LAMINATED DK GY SH IP, TR OPQUE WHT CHERT, LT YEL MIN FLO, NO VIS POR, NO VIS SHOW

SH- DK GY - FRM BLKY SMOOTH TXT TOTR BLKSLI CARB IP

ATOKA 5130' -2037'

LS- CRM LT TN - HD DNS TO BRITT, V/ TT SUCROMTRX TO F-XLN IP, TR FOSS IP, LAMINATED SH GY DK GY IP, LT YEL MIN FLO, NO VIS POR, NO VIS SHOW

LS- CRM LT TN LT GY IP-HD DNS TO BRITT, MED-XLN RE-XLN, IMBD FOSS FRGS, SMLL CALC XLS EMBED IP, DISS PYR IP, LT BRIT YEL FLO NO VIS POR, NO VIS CUT OR SHOW

SH- BLK CARB TO V/DK GY FRM BLKY CALC IP

MORROW 5190' -2097'

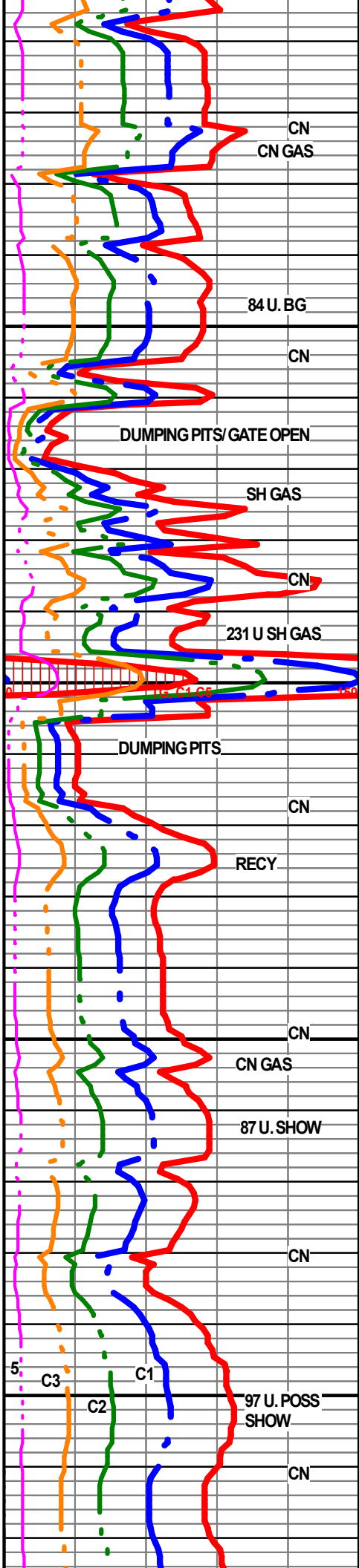
SH- BLK SFT CARB W/ABDT EMBED FINELY DISS AND LAMINATED PYR THRU, SUB BITUMINOUS

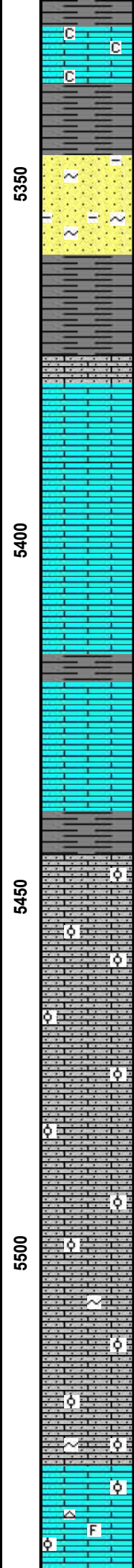
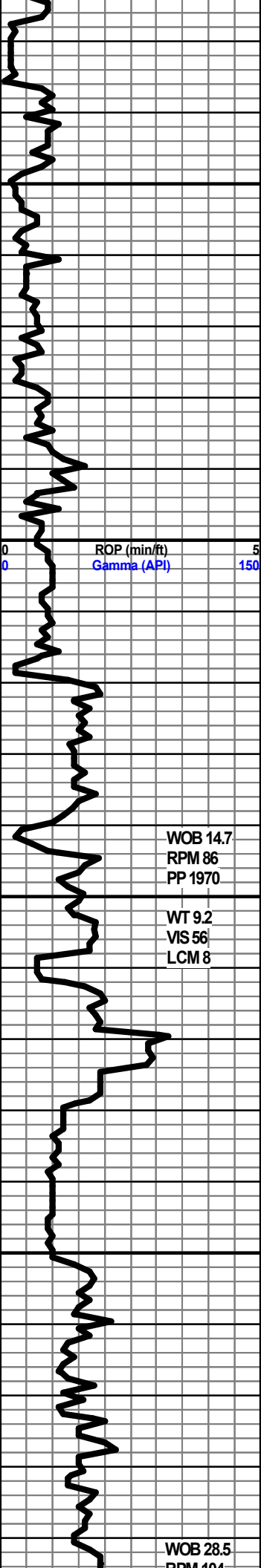
SH- MED TO DK GY- FRM BLKY SMOOTH TXT TO SFT GMMY TXT IP, TR DISS PYR IP

LS- CRM LT TN TN BRN DUE TO LIVE OIL STN IN 30%, HD DNS IP TO V/ BRITT, MED -XLN W SOME SCATTERED MED LIME GRAINS IP, S-CHLKY IP, SLI TR GLAUC & OR CHLORITE, BRIT YEL GLD FLI IN 40%, PR TO FR INTER-XLN POR, PR MICROVUG POR IN 10%, V/ GD FLSH CUT IN 40%, GD SLOW STREAM CUT IN 60%, FR OIL ODOR DRY, NO ODOR WET, LT SKIM OIL IN SAMPLE

LS- TAN LT GY TO GY-HD DNS V/ TT SUCROMTRX, ABDT EMBED ANG SMLL LM GRAINS AND A BDT EMBED FN CLR QRTZ GRAINS THRU, V/ ARG TO SHLY, SCATT GLAUC & OR CHLORITE, NO FLO, NO VIS POR, NO FLSH CUT, TR PR RING CUT

SH- MED TO DK GY- FRM BLKY IP TO V/SFT TR SILTY IP





LS- WHT OFF WHT ABDT SFT GMMYCHLK TO SUCRO
S-CHLKY IP, NO FLO, NO VIS POR, NO VIS SHOW

SS- GRYTAN TODKTAN DUE TO LIVE OIL STAIN IN 40%, HD TT
IP TO VM/FRI, FN TO MED CLR QRTZ GRAIN SANG TO S-ANG
FR SRT, SIL CMNT, SCAT EMBED DISS SH IN 30%, GLAUC & OR
CHLORITE SCATT THRU, BRIT YEL GLD FLO IN 80-90%, PR FR
TO V/GD VIS INT-GRN POR, V/GD OIL ODOR WET AND DRY, OIL
SKIM IN SAMPLES, EXCEL FLSH TO EXCEL SLO STRM CUT IN
80%, TAN LCH ON DISH

SH- MED GY- FRM BLKY SMOOTH TXT

LS- LT TN TO TN, HD FRM TO BRIT, FN XLN SUCRO MTRX, LT
YEL FLO IN 10%, NO VIS POR, NO VIS CUT OR SHOW

SH- GRYTODK GRY, FRM BLKY TO SFT GMMY IP, SLTY TO
SMTH TXT

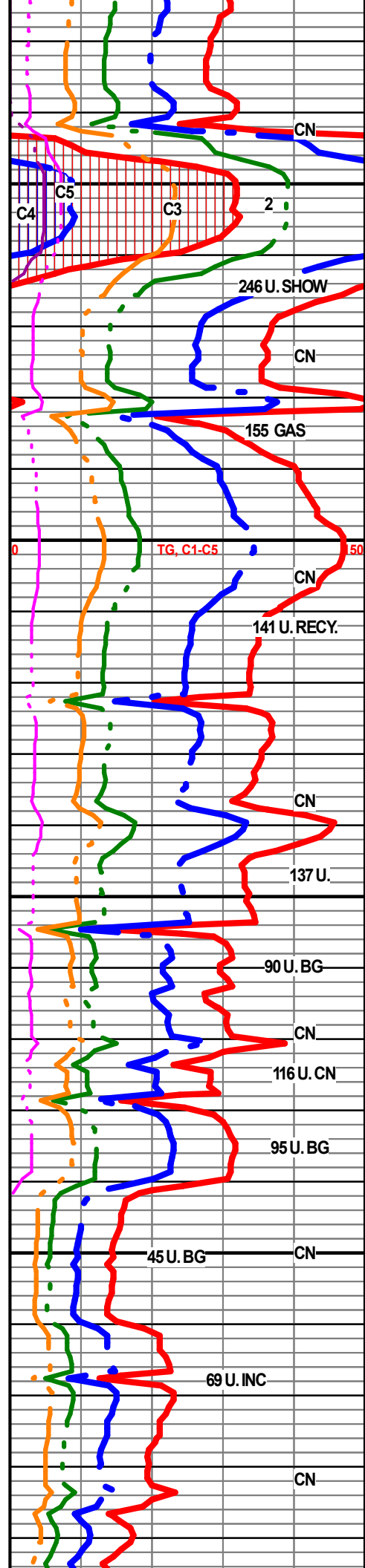
LS- LT TN TN TO LT GRY, HD TO FRM BRIT IP, FN XLN SUCRO
MTRX, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

ST. GEN 5444' -2351'

LS- OFF WHT TO CRM, FRM TO BRIT, FN XLN SUCRO MTRX,
ABDT IMBD FN QRTZ GRNS THRU, ABDT IMBD MICRO OOL
THRU, SFT WHT CHLK IN TRAY, DUL YEL FLO IN 5%, PR TO FR
INTR OOL/GRN POR THRU, NO VIS CUT OR SHOW

LS- OFF WHT TO CRM, FRM TO BRIT, FN XLN SUCRO MTRX,
ABDT IMBD FN QRTZ GRNS THRU, ABDT IMBD MICRO OOL
THRU, SLI TR IMBD GLAUC IP, SFT WHT CHLK IN TRAY, DUL
YEL FLO IN 5%, PR TO FR INTR OOL/GRN POR THRU, NO VIS
CUT OR SHOW

LS- LT TN TO TN, HD DNS TO BRIT, FN XLN SUCRO MTRX,
S-CHI KY IP/IMB D OOL IP SLI TR IMBD FOSS FRG IP SLI TR



RPM 104
PP 1970

WT 9.2
VIS 56
LCM 8

5550

5600



LS-OFF WHT CRM LT TN-HD IP TO V/SFT, SUCROS-CHLKY TO
CHLKY MTRX, SLI TR MICRO OOL IP, ADBT SFT CHLK, BRIT
ORANGE CHERT, NO FLO, NO VIS POR, NO VIS SHOW OR CUT

LS-OFF WHT CRM LT TN-HD IP TO V/SFT, SUCROS-CHLKY TO
CHLKY MTRX, SLI TR MICRO OOL IP, ADBT SFT CHLK, BRIT
ORANGE CHERT, NO FLO, NO VIS POR, NO VIS SHOW OR CUT

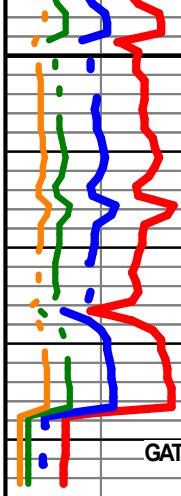
R.T.D. @ 5595' 2/12/20 9:10 AM

CTCH 1 HOUR

SHORT TRIP

CTCH

TOFL



44 U. BG

GATE OPEN AT PITS

TG, C1-C5

R.T.D. @ 5595'

SAMPLES WILL BE DELIVERED TO KGS

THANK YOU FOR CHOOSING EARTH TECH

TIM HEDRICK/AARON SUELTER

ROP (min/ft) 5
Gamma (API) 150

R.T.D. @ 5595'



QUASAR ENERGY SERVICES, INC.

3288 FM 51

Gainesville, Texas 76240

Office: 940-612-3336

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

Form 185-2c

2/9/20

CEMENTING JOB LOG

CEMENTING JOB LOG

Company: MERIT ENERGY COMPANY Well Name: WENU # 103

Type Job: Cement- Surface AFE #: 0

CASING DATA

Table with casing data including Size (8 5/8), Grade (J-55), Weight (24), Casing Depths, Drill Pipe, Tubing, Open Hole, and Perforations.

CEMENT DATA

Table with cement data including Spacer Type (FRESH WATER), Amt., Sks Yield, ft^3/sk, Density (PPG), LEAD, and TAIL.

WATER:

Table with water data including Lead (173.6), gals/sk (14.2), Tail (24.7), gals/sk (6.33), Total (bbls) (198.3).

Pump Trucks Used: 110 - DP7

Bulk Equipment: 187 - 660-25 / 127 - 660-20

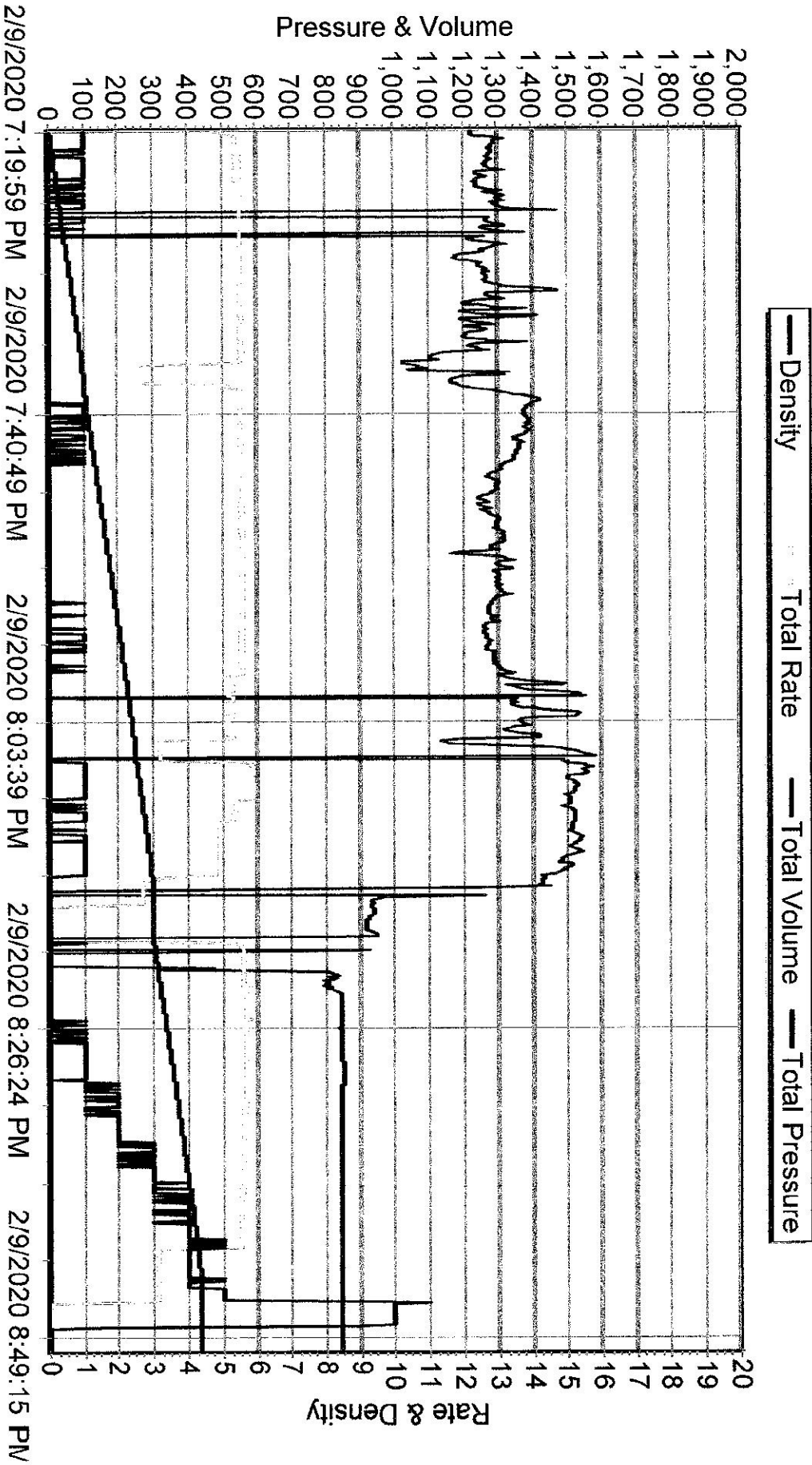
Disp. Fluid Type: FRESH WATER Amt. (Bbls.) 110.8 Weight (PPG): 8.33

Mud Type: Weight (PPG):

COMPANY REPRESENTATIVE: RODNEY GONZALEZ CEMENTER: KIRBY HARPER

Main table with columns: TIME, AM/PM, PRESSURES PSI (Casing, Tubing, ANNULUS), FLUID PUMPED DATA (TOTAL, RATE), REMARKS.

MERIT ENERGY COMPANY
 WENU 103
 8.625 SURFACE
 2/9/20





QUASAR ENERGY SERVICES, INC.

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

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

Form 185-2c

2/9/20

CEMENTING JOB LOG

CEMENTING JOB LOG

Company: MERIT ENERGY COMPANY **Well Name:** WENU # 103

Type Job: Cement- Production **AFE #:** 0

CASING DATA

Size:	5 1/2	Grade:	J-55	Weight:	17
Casing Depths	Top: DVT4764.83	Bottom:	SJ 44.21		
Drill Pipe:	Size: 0	Weight:	0		
Tubing:	Size: 0	Weight:	0	Grade: 0	TD (ft): 5594
Open Hole:	Size: 7 7/8	T.D. (ft):	5594		
Perforations	From (ft): 0	To: 0	Packer Depth(ft):	0	

CEMENT DATA

Spacer Type:	MUD FLUSH					
Amt.	1000 GAL	Sks Yield		ft ³ /sk	500 GAL PER STAGE	Density (PPG)
LEAD:	50/50 (C) - 6% GYP, 10% SALT, 5# GILSONITE, .5% C-17, 1/4# POLY					Excess
Amt.	130	Sks Yield	1.57	ft ³ /sk	1ST STAGE	Density (PPG) 13.5
TAIL:	50/50 (C) - 6% GYP, 10% SALT, 5# GILSONITE, .5% C-17, 1/4# POLY					Excess
Amt.	205	Sks Yield	1.57	ft ³ /sk	2ND AND R/M HOLES	Density (PPG) 13.5
WATER:						
Lead:		gals/sk:		Tail:		Total (bbls):
Pump Trucks Used:	110 - DP7					
Bulk Equipment:	188 / 660-20					
Disp. Fluid Type:	WATER/MUD 20/109	Amt. (Bbls.)	129	Weight (PPG):		
Mud Type:					Weight (PPG):	

COMPANY REPRESENTATIVE: RODNEY GONZALEZ **CEMENTER:** KIRBY HARPER

TIME	PRESSURES PSI			FLUID PUMPED DATA		REMARKS
	Casing	Tubing	ANNULUS	TOTAL	RATE	
						FIRST STAGE
0400						ON LOCATION - SPOT AND RIG UP
0600						CASING ON BOTTOM - BREAK CIRC
0615						SAFETY MEETING
0707	2500					PRESSURE TEST
0714	150				6	START MIXING CEMENT @ 13.5 PPG
0737						SHUT DOWN - CLEAN LINES - DROP PLUG
0740	200			0	6	START DISPLACING WITH FRESH WATER
0744	200			20	8	START PUMPING MUD
0754	400			105	3	SLOW RATE WHILE PLUG IN TOOL
0757	600			115	7	RESUME RATE
0759	400			119	3	SLOW RATE
0759	600-1300			129		BUMP PLUG
0801	1300-0					RELEASE PRESSURE -- FLOATS HELD
0808						DROP OPENING TOOL
0833	500					OPEN TOOL
0900						BREAK CIRC. W/RIG PUMP

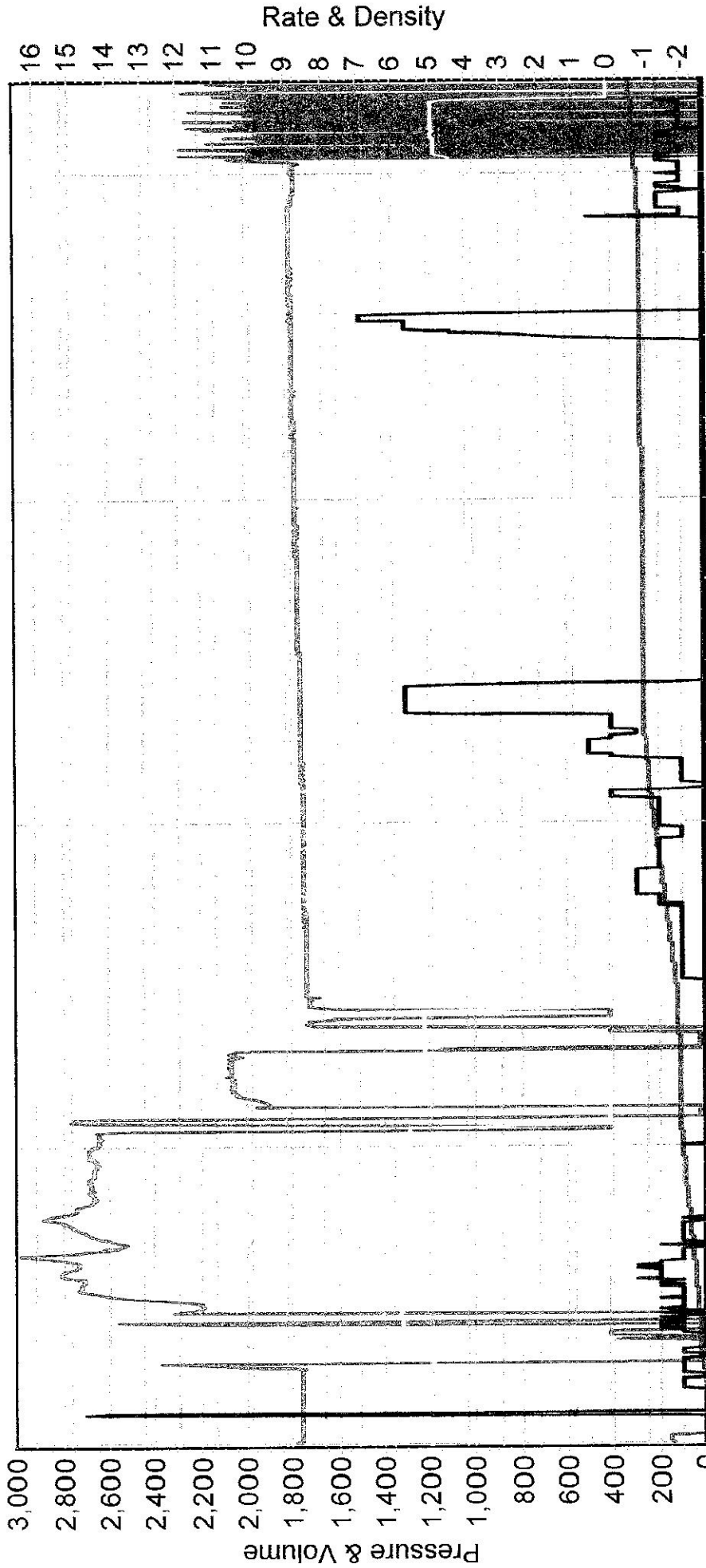
MERIT ENERGY

WENU 103

1ST STAGE 5.5 PRODUCTION

02/14/20

Density Total Rate Total Volume Total Pressure



2/14/2020 6:57:56 AM 2/14/2020 7:29:43 AM 2/14/2020 7:51:58 AM 2/14/2020 8:14:08 AM 2/14/2020 8:36:18 AM

MERIT ENERGY
WENU 103
2ND STAGE 5.5 PRODUCTION
02/14/20

— Density Total Rate — Total Pressure

