

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)</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	LESTER 1
Doc ID	1487584

All Electric Logs Run

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





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

SERVICE ORDER - 1718 19695 L

Date: 9/24/2019

Well Name: <b>Lester # 1</b>	Location: <b>33-27S-34W</b>
County - State: <b>Haskell , Kansas</b>	RRC #:
Type Of Service: <b>Z-42 Cement Surface Casing</b>	Customer's Order #:

Customer: Merit Energy

Address: sublette.invoices@meritenergy.com -- AFE # 64451  
 PO Box L, Sublette, Ks. 67877

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	505	EA	A-Con Blend	50.00	25250.00
BC101	165	SK	Class C Cement	29.00	4785.00
CC102	294	LB	Celloflake	4.00	1176.00
CC109	1737	LB	Calcium Chloride	1.00	1737.00
CC201	506	LB	Gilsonite	1.00	506.00
ME102	180	MI	Heavy Equipment Mileage	8.00	1440.00
CE240	670	SK	Blending & Mixing Service Charge	1.40	938.00
TM	1893	MI	Ton Mileage	3.00	5679.00
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	2	EA	Driver	35.00	70.00
Book Total:				\$44,056.00	
Taxes:					
Disc. Price:				\$14,671.02	
10% Disc				\$1,467.10	
Additional 10% Discount as per Agreement on Cement Services					
Adjusted Price				<b>\$13,203.92</b>	

PUMP TRUCK NUMBER: 37223 19572

DRIVER: Angel Echevarria  
Victor A. Canino

BASIC ENERGY SERVICES

	YES	NO
THIS JOB WAS SATISFACTORILY COMPLETED	<input type="checkbox"/>	<input type="checkbox"/>
OPERATION OF EQUIPMENT WAS SATISFACTORY	<input type="checkbox"/>	<input type="checkbox"/>
PERFORMANCE OF PERSONEL WAS SATISFACTORY	<input type="checkbox"/>	<input type="checkbox"/>

CUSTOMER OR HIS AGENT

Customer Comments or Concerns:  
Samuel Kubo



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 17HRS	Operator TRK No.:	78868	
Address:	sublette.invoices@meritenergy.com	Ticket #:	1718 19695 L	Bulk TRK No.:	14355 37724 Angel	14354 19808 Sam
City, State, Zip:	PO Box L, Sublette, Ks. 67877	Job Type:	Z-42 Cement Surface Casing			
Service District:	1718-Liberal KS	Well Type:	OIL			
Well Name and No.:	Lester # 1	Well Location:	33-27S-34W	County:	Haskell	State: Kansas

Type of Cmt	Sacks	Additives	Truck Loaded On		
A-Con Cement	505	3% Calcium Chloride, 1/2# Celloflake, 1# Gilsonite	14355 37724 Angel	Front	Back
Class C Cement	165	2% Calcium Chloride, 1/4# Celloflake	14354 19808 Sam	Front	Back
				Front	Back

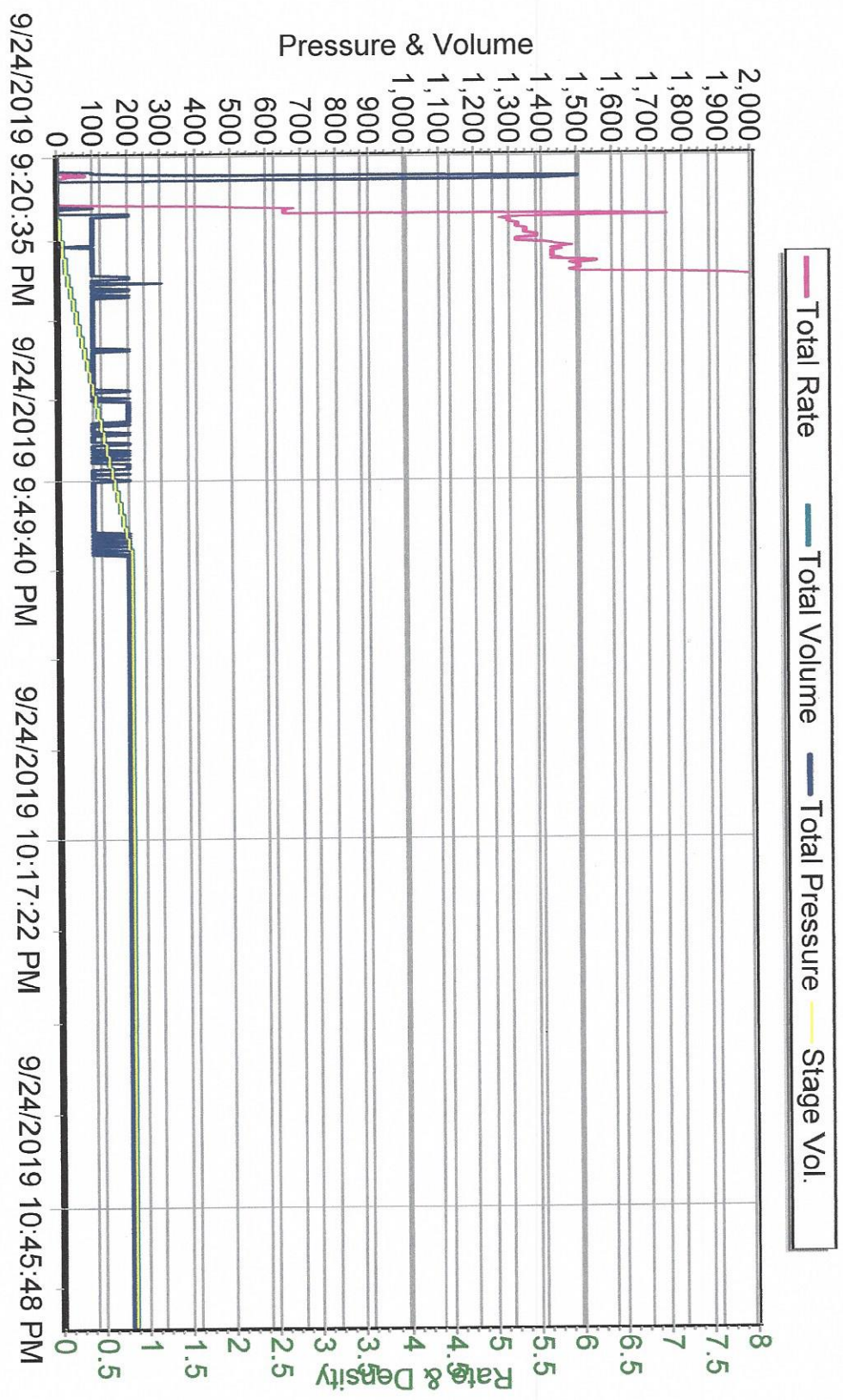
Lead/Tail:	Weight #1 Gal.	Cu/Ft/sk	Water Requirements	CU. FT.	Man Hours / Personnel	
<b>Lead:</b>	12.1	2.41	13.9	1217.05	TT Man Hours:	57
<b>Tail:</b>	14.8	1.34	6.33	221.1	# of Men on Job:	3

Time (am/pm)	(BPM)	Volume (BBLS)	Pumps		Pressure(PSI)		Description of Operation and Materials
			T	C	Tubing	Casing	
17:00pm							Arrived at location
17:45pm							Spot trucks/Rig up
21:00pm							Safety meeting
21:25pm						1500	Pressure test lines to 1500psi
21:26pm	3	10				40	Pump 10bbls of fresh water spacer
21:30pm	6	216				50	Pump 216bbls of lead from 505sks at 12.1lbs
22:17pm	6	39				20	Pump 39bbls of tail from 165sks at 14.8lbs
22:28pm							Shut down/Drop plug/Wash pump and lines
22:29pm							Start displacement of 109bbls with fresh water
22:34pm	6	20				100	20bbls gone
22:37pm	6	40				200	40bbls gone
22:40pm	6	60				300	60bbls gone
22:44pm	6	80				4200	80bbls gone
22:47pm	6	99				550	99bbls gone/Slow down rate
22:50pm	3	109				1100	Bump plug/Hold for 2 minutes
22:52pm							Release pressure to check if float holds
							Got 100 bbls of cement to surface
							Rig down
							Job completed
							Thanked company man and rig crew

Size Hole	12 1/4	Depth	1776		TYPE	Float collar	
Size & Wt. Csg.	8 5/8 24#	Depth	1766	New / Used	Float Collar	1724.37	Depth
Landing Psi	1000+	Depth			Retainer		Depth
Shoe Joint	41.63	Type			Perfs		CIBP

Customer Signature:	Basic Representative:	Victor A. Corona
	Basic Signature:	<i>Victor A. Corona</i>
	Date of Service:	9/24/2019

**Merit Energy  
Lester #1  
8 5/8 Surface  
9/24/2019**



# Pumping Order / Mixture

Client: Merit Energy  
Date: 9/24/2019  
Job: 8 5/8 Surface

Well Name & No: Lester #1  
Location Supervisor: Victor A. Corona  
COMPANY REP. Rodney Gonzales

Differential Pressure 1460 psi  
Lift Pressure: 500 psi

## Recipe

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Pressure Test PSI: 1500

MAX PSI: 500

**10** BBLS OF FRESH WATER SPACER  
**216** BBLS LEAD SLURRY YIELD 2.41 12.1LBS 505SKS 13.9G/SK  
**39** BBLS TAIL SLURRY YIELD 1.34 14.8LBS 165SKS 6.33G/SK

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

**109.0** BBLS OF DISPLACEMENT  
**99.0** BBLS @ 5 BPM  
**10.0** BBLS AT 2-3 BPM TO BUMP PLUG

**DISP PLUG WITH 109 BBLS OF H2O**





LEASE

OVERN ENERGY  
Lester Well # 1

# DIRECTIONS

14354-19808

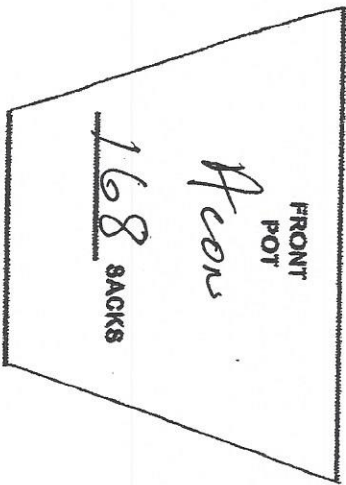
F ← B

165

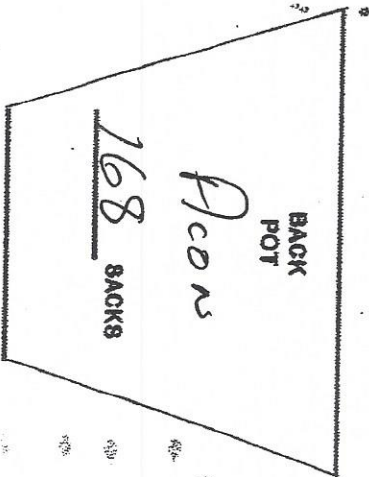
169

tail

Acorn



14355



37724

Hours to Load Truck





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.:	38119-19570 5 HRS	Operator TRK No.:	96815
Address:	sublette.invoice@meritenergy.com	Ticket #:	1718-19745 L	Bulk TRK No.:	30463-37547
City, State, Zip:	PO Box L, Sublette, Ks. 67877	Job Type:	Z-42 Cement Production Casing		
Service District:		Well Type:	OIL		
Well Name and No.:	Lester # 1 AFE # 64451	Well Location:	33-27S-34W	County:	Haskell
				State:	Kansas

Type of Cmt	Sacks	Additives	Truck Loaded On		
50/50 POZ	305	6%GYPSUM, 10%SALT, 1/4#DEFOAMER, 5#GILSONITE, 1/4#POLYFLAKE	30463-37547	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	478.85	Man Hours:	24
<b>Tail:</b>					# of Men on Job:	3

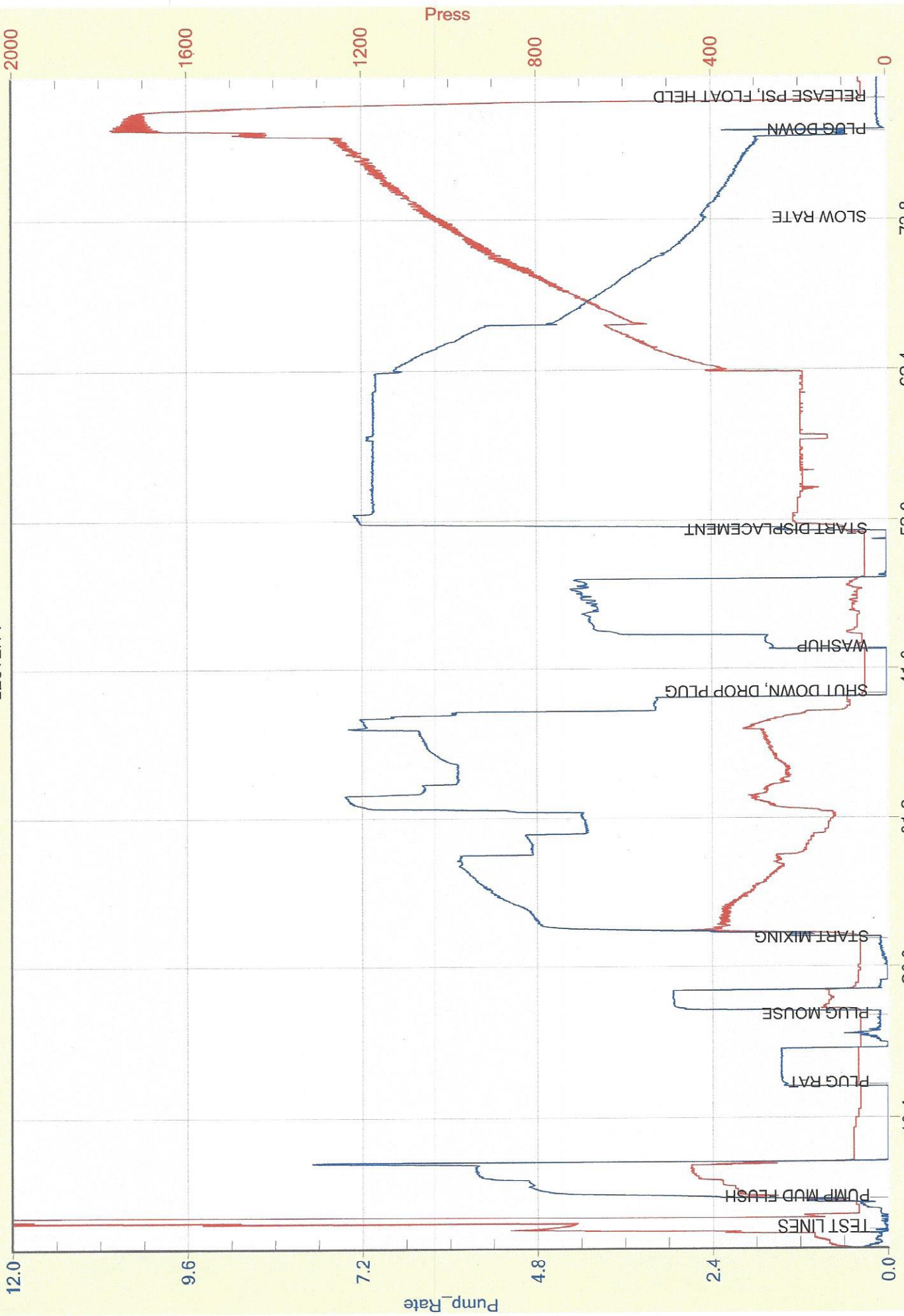
Time (am/pm)	(BPM)	Volume (BBLS)	Pumps		Pressure(PSI)		Description of Operation and Materials
			T	C	Tubing	Casing	
17:30							ON LOC, SAFTEY MTG, R.U.
20:45						3000	TEST LINES
8:47 PM	5.5	10				400	PUMP MUD FLUSH
8:50 AM	5 5	5				440	H2O SPACER
8:56 PM							PLUG RAT AND MOUSE
21:06	5.8					340	START MIXING @ 13.6#
21:26		71.5					SHUT DOWN, DROP PLUG, WASHUP
9:35 PM	7					100	START DISPLACEMENT 4%KCL
21:57	2.5	115				1070	SLOW RATE
22:03		129				1340-1700	PLUG DOWN
22:08							RELEASE PSI, FLOAT HELD
							JOB COMPLETE
							THANK YOU FOR YOUR BUSINESS!!!

Size Hole	7 7/8	Depth	5610'		TYPE	
Size & Wt. Csg.	5 1/2 17	Depth	5610'	New / Used	Packer	Depth
tbg.		Depth			Retainer	Depth
Top Plugs		Type			Perfs	CIBP

Customer Signature:	Basic Representative:	CHAD HINZ
	Basic Signature:	
	Date of Service:	9/28/2019



MERIT  
LESTER 1



# MBC WELL LOGGING LLC

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

Well Name: LESTER 33-1 AFE 64451 MERIT ENERGY CO LLC  
 Well Id: API 15-081-22199-00-00  
 Location: HASKELL COUNTY, KANSAS USA  
 License Number: 32446  
 Spud Date: 9-23-19  
 Surface Coordinates: 1011'fsl- 2250'fwl-SEC 33-T27S-R34W  
 Bottom Hole Coordinates: HLS-DIL/SP/GR CNL/CAL/PE/BHV SONIC SFC- GR TO SFC'  
 Ground Elevation (ft): 3064 K.B. Elevation (ft): 3076  
 Logged Interval (ft): 4000 To: 5610 Total Depth (ft): Elog  
 Formation: ST LOUIS  
 Type of Drilling Fluid: MUDCO JUSTIN WHITING CELL (620)-214-3630  
 Region: DUFFO  
 Drilling Completed: 9-27-19

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

## OPERATOR

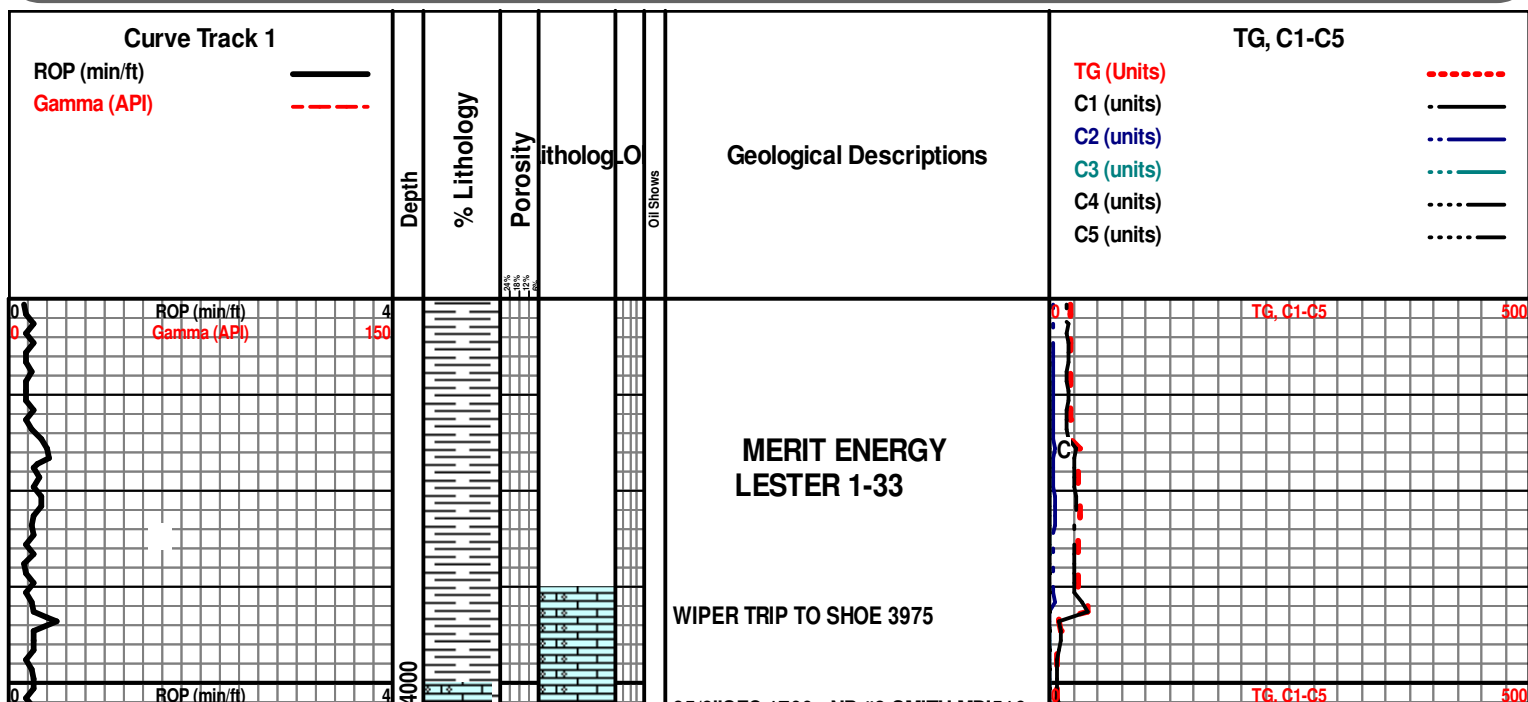
Company: MERIT ENERGY CO LLC  
 Address: ATTN CAMERON GUTHRIE GEOLOGY  
 13727 NOEL RD STE 1200  
 DALLAS, TEXAS 75240

## 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		



Gamma (API)

150

85/8" SFC 1766, NB #2 SMITH MDI516  
5-14 JETS IN 1777, START ONE-MAN  
LOGGING UNIT 4000ft

WOB 25-27K  
RPM 120+-  
PP 2000+-  
SPM 95

SH; BLK BLKY CARBY INCRS GYISH  
SFT CALC SH SLI GRN IP

HEEBNER 4016

LS; CRM, BUFF CHLKY SHDW OOL,  
IMBD PBLY DOLO XTLS LAM CRM  
DOLO LS, SME IMBD CHT N/O, PURPL  
SME YEL FLOR NSOC

TORONTO  
ODOR 4070

SRVY: 4065' INC  
0.6 AZI 211.3

LS; CRM BUFF CHLKY SHDW FOSS  
SME GY TN HD DNS FOSS FRAC SLI  
SHLY, N/O, PURPL SME GOLD FLOR  
NSOC

300u CG

LS; CRM BUFF CHLKY W/FOSS SME  
OOL, N/O, PURPL FLOR NSOC

LS; CRM BUFF CHLKY TR STYOLITIC,  
N/O, PURL FLOR NSOC

SH; GY DK GY BLKY TO HD THIN  
PLATY W/GYP INCRS SLI GRN, FREE  
CRS PYR

LANSING 4150

LS; LT TN SME GYISH DFNS XLN  
CRIN-FOSS, SME OOL-DK GY BRN VF  
OOL XLN SHLY V/FAINT ODOR, GOLD  
& SME YEL FLOR V/SLO MILKY CUT

SAMPL  
SHOWS

LS; LT TN VF OOL, LAM TO CLR FLAT  
DOLOMITIC SPAR, N/O, SME GOLDS  
TO YEL FLOR, V/SLO THIN MILKY CUT

SLI ODOR 4180

ROP (min/ft)  
Gamma (API)

150

TG, C1-C5

500

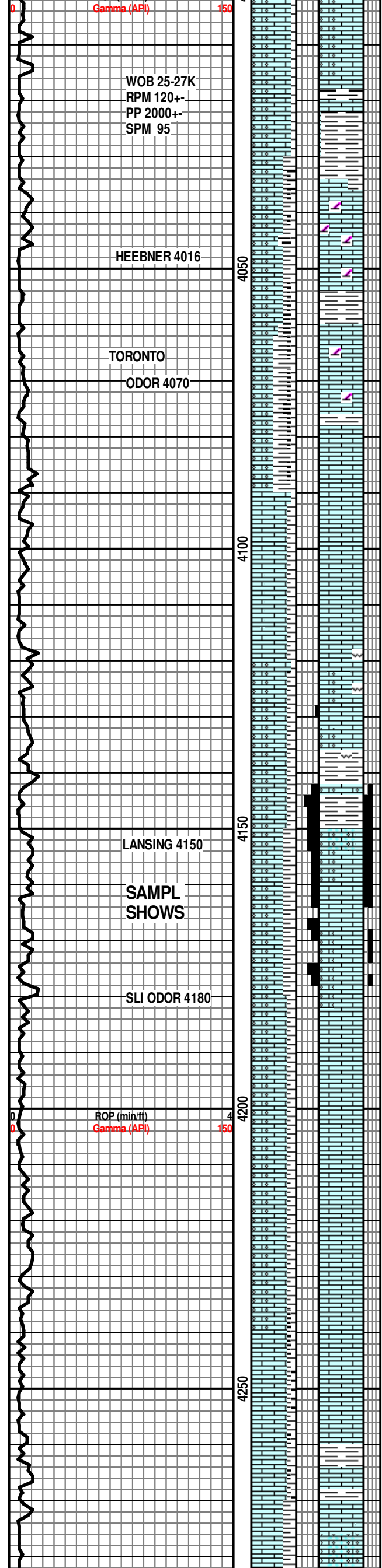
INCRS IN  
HEAVIES

LS; LT BUFF CRM WH WEATHD  
APPR, VF F OOL, SME VF OOL W/BLK  
CNTR, N/O, MFNSOC

SRVY: 4221' INC  
0.6 AZI 211.3

GY HD DNS XLN SHLY LS

LS; LT TN BUFF CRM, VF F OOL &  
OOLCAS, THIN TO HEAVY RIM COAT,  
TRT SPAR CMTE IP. N/O. V/FAINT



85/8" SFC 1766, NB #2 SMITH MDI516  
5-14 JETS IN 1777, START ONE-MAN  
LOGGING UNIT 4000ft

SH; BLK BLKY CARBY INCRS GYISH  
SFT CALC SH SLI GRN IP

LS; CRM, BUFF CHLKY SHDW OOL,  
IMBD PBLY DOLO XTLS LAM CRM  
DOLO LS, SME IMBD CHT N/O, PURPL  
SME YEL FLOR NSOC

LS; CRM BUFF CHLKY SHDW FOSS  
SME GY TN HD DNS FOSS FRAC SLI  
SHLY, N/O, PURPL SME GOLD FLOR  
NSOC

LS; CRM BUFF CHLKY W/FOSS SME  
OOL, N/O, PURPL FLOR NSOC

LS; CRM BUFF CHLKY TR STYOLITIC,  
N/O, PURL FLOR NSOC

SH; GY DK GY BLKY TO HD THIN  
PLATY W/GYP INCRS SLI GRN, FREE  
CRS PYR

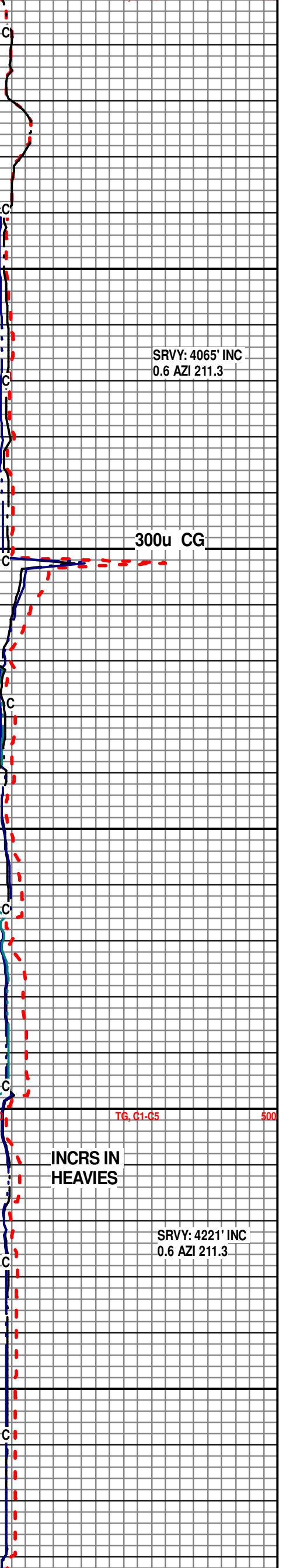
LS; LT TN SME GYISH DFNS XLN  
CRIN-FOSS, SME OOL-DK GY BRN VF  
OOL XLN SHLY V/FAINT ODOR, GOLD  
& SME YEL FLOR V/SLO MILKY CUT

LS; LT TN VF OOL, LAM TO CLR FLAT  
DOLOMITIC SPAR, N/O, SME GOLDS  
TO YEL FLOR, V/SLO THIN MILKY CUT

LS; LT BUFF CRM WH WEATHD  
APPR, VF F OOL, SME VF OOL W/BLK  
CNTR, N/O, MFNSOC

GY HD DNS XLN SHLY LS

LS; LT TN BUFF CRM, VF F OOL &  
OOLCAS, THIN TO HEAVY RIM COAT,  
TRT SPAR CMTE IP. N/O. V/FAINT



4300  
4350  
4400  
4450  
4500  
4550

GOLD FLOR NSOC  
  
GY TN HD DNS XLN SME LT GYWH VF SUCROSI W/F-GY PELL  
  
LS; LT TO TN P/SRTD VF -UPR F-OOLCAS & SME VF OOL, IMBD SHELL FRGS, SUGARY MATRIX, LEACHED POR, N/O, YELL TO GOLD FLOR NSOC  
  
SH; GY BLK LMY  
  
LS; LT TN BUFF SME BIOSPARITIC/VF F OOL, CHLKY IP, SME W/F-GY PELL, N/O, FAINT GOLD FLOR NSOC  
  
LS; LT BUFF TN WEATHD APPR, RGHTXT, VF OOL HEAVY COATED, SME FOSS COMGLD, WH TRIP ANG CONCORD FRAC CHT W/VIT TN CHT INCLUS, N/O, FAINT PURPL SME GOLD FLOR NSOC  
  
LS; TN LT TN BIOSPARITIC VF OOL, PURL FLOR, V/FAINT ODOR,  
  
LS- TN OFF WHT MOTT, HRD DNS, F/VF-XLN, SUCRO TO CHLKY, TRS OF FOSS FRAGS SME ALGAL, SPARRY, YEL MIN FLO, NO VIS POR, NO VIS CUT OR SHOW  
  
LS- CRM OFF WHT TO LT TN, HRD DNS BRITT, F-XLN, SUCRO TO CHLKY, TRS OF FOSS FRAGS, F/TRS OF OFF WHT TO TN CHRT, DLL YEL MIN FLO, NO VIS POR, NO VIS CUT OR SHOW, FAINT ODOR  
  
SH- SFT BLK CARB  
  
LS- CRM OFF WHT LT TN TO LT GY, HRD DNS TO BRITT, F/VF-XLN TO MICRO-OOL IP, AHREN IP, TRS OF SFT OFF WHT CHLKY MXY, SUCRO TO

INCRS HEAVIES

105u TG

SRVY: 4377' INC  
0.4 AZI 237.3

TG, C1-C5

87u

104u

SRVY: 4536' INC  
0.2 AZI 257.3

CN GAS 1302u

ROP (min/ft)  
Gamma (API)

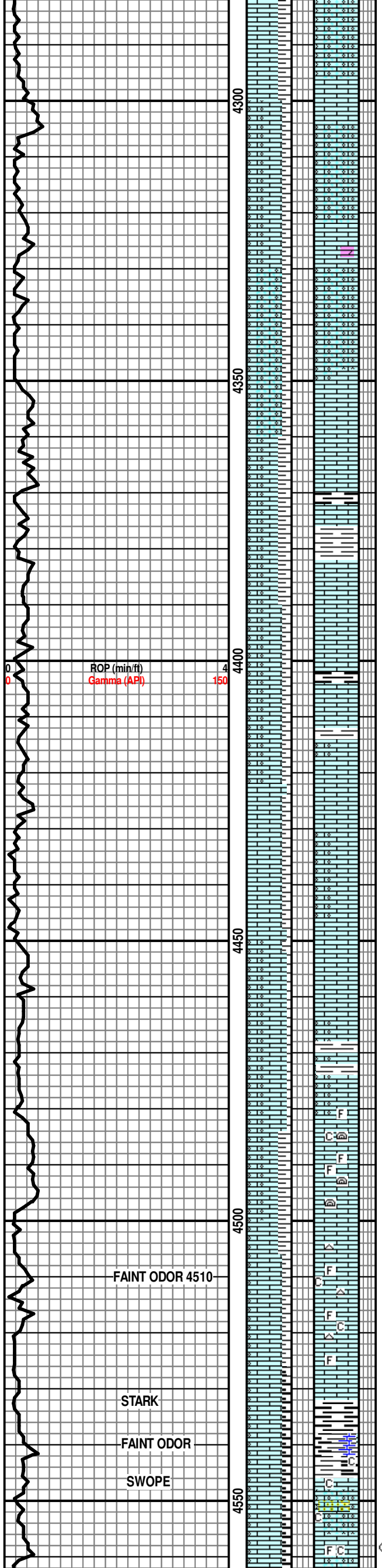
150

FAINT ODOR 4510

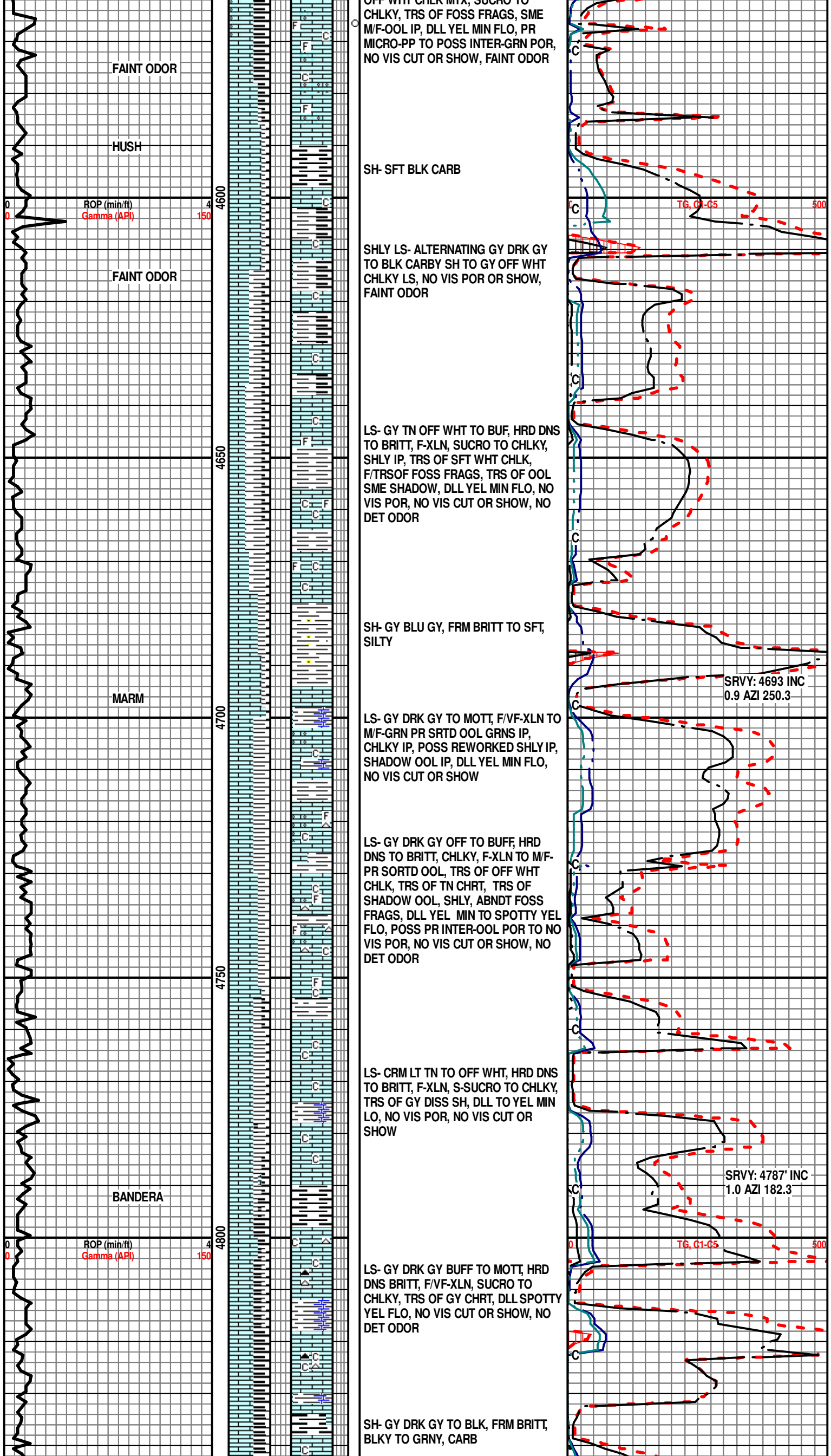
STARK

FAINT ODOR

SWOPE







FAINT ODOR

HUSH

ROP (min/ft)  
Gamma (API)

4600  
150

FAINT ODOR

OFF WITH CHLK MFX, SUCRO TO  
CHLKY, TRS OF FOSS FRAGS, SME  
M/F-OOL IP, DLL YEL MIN FLO, PR  
MICRO-PP TO POSS INTER-GRN POR,  
NO VIS CUT OR SHOW, FAINT ODOR

SH- SFT BLK CARB

SHLY LS- ALTERNATING GY DRK GY  
TO BLK CARBY SH TO GY OFF WHT  
CHLKY LS, NO VIS POR OR SHOW,  
FAINT ODOR

LS- GY TN OFF WHT TO BUF, HRD DNS  
TO BRITT, F-XLN, SUCRO TO CHLKY,  
SHLY IP, TRS OF SFT WHT CHLK,  
F/TRSOF FOSS FRAGS, TRS OF OOL  
SME SHADOW, DLL YEL MIN FLO, NO  
VIS POR, NO VIS CUT OR SHOW, NO  
DET ODOR

SH- GY BLU GY, FRM BRITT TO SFT,  
SILTY

MARM

4700

LS- GY DRK GY TO MOTT, F/VF-XLN TO  
M/F-GRN PR SRTD OOL GRNS IP,  
CHLKY IP, POSS REWORKED SHLY IP,  
SHADOW OOL IP, DLL YEL MIN FLO,  
NO VIS CUT OR SHOW

LS- GY DRK GY OFF TO BUFF, HRD  
DNS TO BRITT, CHLKY, F-XLN TO M/F-  
PR SORTD OOL, TRS OF OFF WHT  
CHLK, TRS OF TN CHRT, TRS OF  
SHADOW OOL, SHLY, ABNDT FOSS  
FRAGS, DLL YEL MIN TO SPOTTY YEL  
FLO, POSS PR INTER-OOL POR TO NO  
VIS POR, NO VIS CUT OR SHOW, NO  
DET ODOR

LS- CRM LT TN TO OFF WHT, HRD DNS  
TO BRITT, F-XLN, S-SUCRO TO CHLKY,  
TRS OF GY DISS SH, DLL TO YEL MIN  
LO, NO VIS POR, NO VIS CUT OR  
SHOW

BANDERA

4800

ROP (min/ft)  
Gamma (API)

150

LS- GY DRK GY BUFF TO MOTT, HRD  
DNS BRITT, F/VF-XLN, SUCRO TO  
CHLKY, TRS OF GY CHRT, DLL SPOTTY  
YEL FLO, NO VIS CUT OR SHOW, NO  
DET ODOR

SH- GY DRK GY TO BLK, FRM BRITT,  
BLKY TO GRNY, CARB

TG, C1-C5 500

SRVY: 4693 INC  
0.9 AZI 250.3

SRVY: 4787' INC  
1.0 AZI 182.3

TG, C1-C5 500

CHEROKEE

4850

4900

4950

5000

5050

5100

INTERBD SH & LS- GY DRK GY BLK CARBY, CALC SH SME FOSS FRAGS, W/ GY OFF WHT TO TN HRD CHRTY TO CHLKY LS, SME FOSS FRAGS (STROM), POSS PR/FR INTER-FOSS POR IP, NO VIS SHOW

LS- GY DRK GY TO MOTT, HRD DNS TO BRITT, F-XLN, CHLKY, TRS OF FOSS FRAGS, GY CHRT IP, F/TRS OF OOL SME SHADOW OOL, DLL GLD YEL FLO, NO VIS POR OR CUT, NO ODOR

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

SH- GY DRK GY TO BLK, CARBY TO CALC SH, FRM BRITT TO SFT

LS- OFF WHT TN TO LT GY, HRD DNS TO SLI BRITT, F/VF-XLN, CHLKY, F/TRS OF FOSS FRAGS (SHELL), TRS OF TN CHRT, DLL GLD YEL MIN FLO, NO VIS POR, NO VIS CUT OR SHOW

ALTERNATING GY BLK CALC SH W/ TN GY OFF WHT LS, NO VIS POR, NO CUT OR SHOW, NO DET ODOR

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

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

LS- GY OFF WHT TN TO BUFF, HRD DNS TO BRITT, F-XLN, CHLKY, TRS OF FOSS FRAGS, DLLY GLD FLO IP, NO VIS POR, NO VIS CUT OR SHOW

LYMY SH- GY DRK GY TO BLK CARBY SH, INTRBD CHLKY OFF WHT GY TO TN MOTT LS, TRS OF FOSS FRAGS IP, NO VIS POR, NO VIS CUT OR SHOWS

SRVY: 4945' INC  
0.8 AZI 221.3

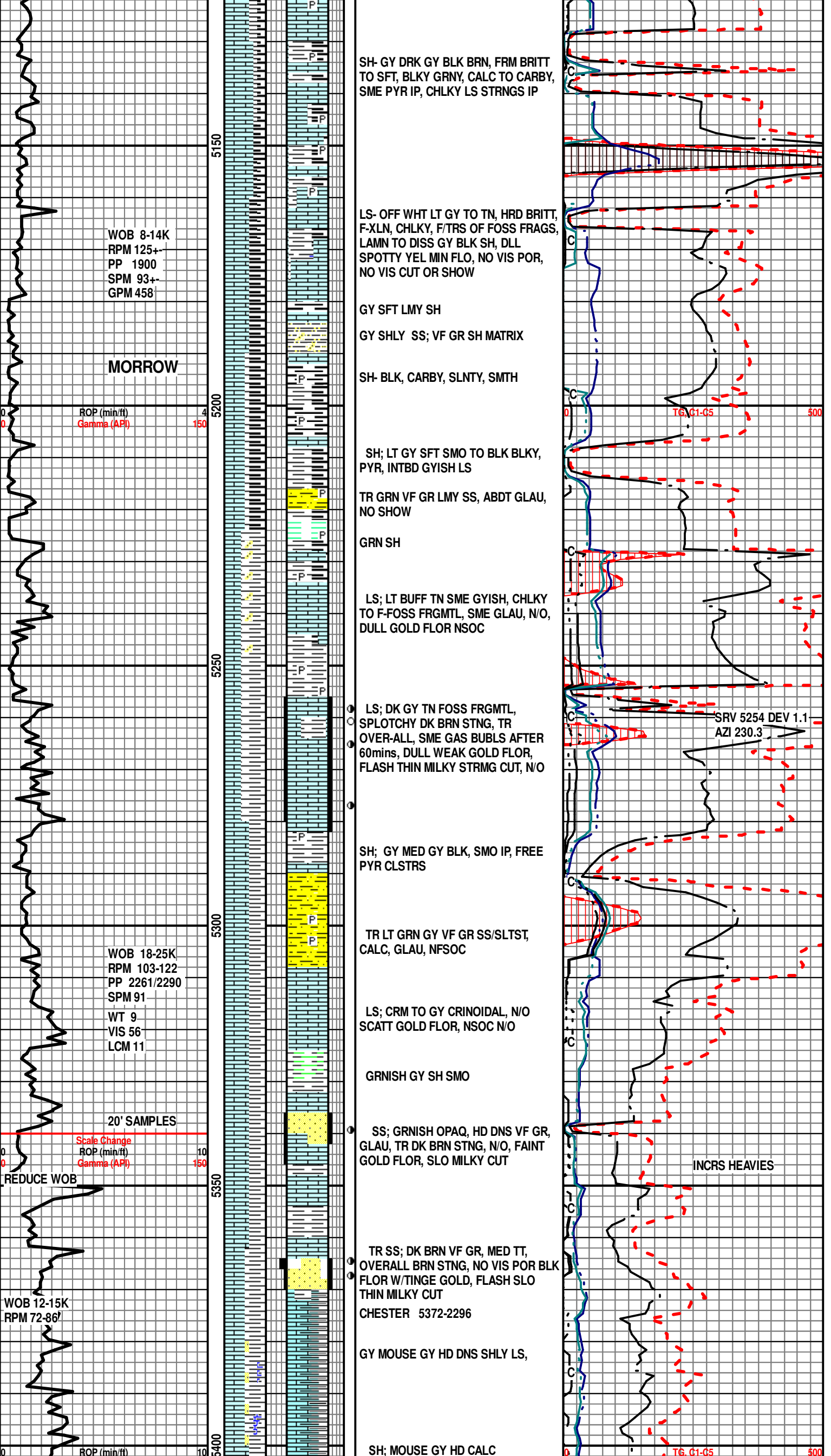
TG. C1-C5

500

SRVY: 5100' INC  
0.9 AZI 96.3

ROP (min/ft)  
Gamma (API)

150



SH- GY DRK GY BLK BRN, FRM BRITT TO SFT, BLKY GRNY, CALC TO CARBY, SME PYR IP, CHLKY LS STRNGS IP

LS- OFF WHT LT GY TO TN, HRD BRITT, F-XLN, CHLKY, F/TRS OF FOSS FRAGS, LAMN TO DISS GY BLK SH, DLL SPOTTY YEL MIN FLO, NO VIS POR, NO VIS CUT OR SHOW

GY SFT LMY SH  
GY SHLY SS; VF GR SH MATRIX

**MORROW**

SH- BLK, CARBY, SLNTY, SMTH

ROP (min/ft)  
Gamma (API)

SH; LT GY SFT SMO TO BLK BLKY, PYR, INTBD GYISH LS

TR GRN VF GR LMY SS, ABDT GLAU, NO SHOW

GRN SH

LS; LT BUFF TN SME GYISH, CHLKY TO F-FOSS FRGRTL, SME GLAU, N/O, DULL GOLD FLOR NSOC

LS; DK GY TN FOSS FRGRTL, SPLOTCHY DK BRN STNG, TR OVER-ALL, SME GAS BUBLS AFTER 60mins, DULL WEAK GOLD FLOR, FLASH THIN MILKY STRMG CUT, N/O

SH; GY MED GY BLK, SMO IP, FREE PYR CLSTRS

TR LT GRN GY VF GR SS/SLTST, CALC, GLAU, NFSOC

WOB 18-25K  
RPM 103-122  
PP 2261/2290  
SPM 91  
WT 9  
VIS 56  
LCM 11

LS; CRM TO GY CRINOIDAL, N/O SCATT GOLD FLOR, NSOC N/O

GRNISH GY SH SMO

20' SAMPLES

Scale Change  
ROP (min/ft)  
Gamma (API)

SS; GRNISH OPAQ, HD DNS VF GR, GLAU, TR DK BRN STNG, N/O, FAINT GOLD FLOR, SLO MILKY CUT

INCRS HEAVIES

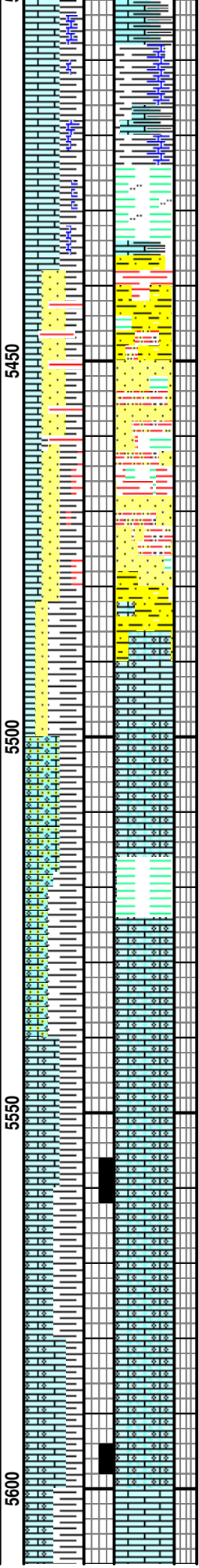
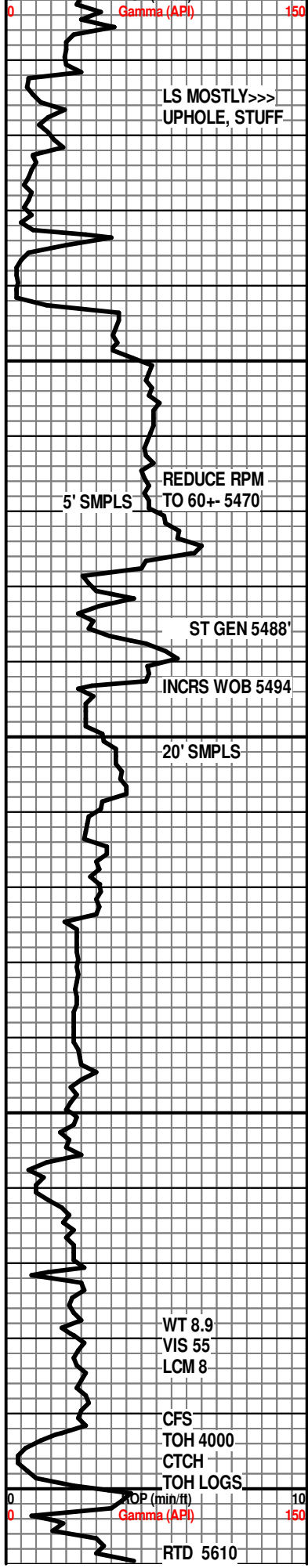
REDUCE WOB

TR SS; DK BRN VF GR, MED TT, OVERALL BRN STNG, NO VIS POR BLK FLOR W/TINGE GOLD, FLASH SLO THIN MILKY CUT  
CHESTER 5372-2296

GY MOUSE GY HD DNS SHLY LS,

WOB 12-15K  
RPM 72-86

SH; MOUSE GY HD CALC



SRV 5412 DEV 1.5 AZI 253.3

SH; MOUSE GY SFT LMY

MED GRN SH SLTY IP

TR BRITE RED SH TR LAM ON GRN SS/SLTST

SLTST/SS; MED GRN VF GR HD TT SLI CALCSME BLK SH LAM

SAMPLES ARE VERY POOR

SILTY SNDY SH- GY MOUSE LT GN, REWORKD SS AND LS

CRM, WH,V/CHLKY SME OOL, FOSS LS

ST GEN 5500' -2424ss

LS; SME WH TO CRM W/VF QTZ, & OOL,

SAMPLES REMAIN VERY POOR DK PURPL TO BLK FLOR NSOC

LS; CRM WH CHLKY VF F OOL BLK TO PURPL TR GOLD FLOR NSOC N/O

LS; WH OFF WH F OOL, TR CHOR, FREE CRIN, OCC IMBD QTZ, N/O, PURPL TO GOLD FLOR, NSOC

LS; PINKISH CRM WH CHLK SHDW OOL, SE PYR, TR OOL CLSTRS N/O

LS; BONE WH CRM, OOL, WHIFF ODOR, (2) PCES GOLD FLOR, NSOC

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

