

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	Casillas Petroleum Corp
Well Name	HAMKER NO. 20-3A
Doc ID	1509679

All Electric Logs Run

Cement Bond Log
Composite Log
Phased Induction
Micro Log
Compensated Neutron Micro Pel Density Log
Borehole Compensated Sonic Log

Form	ACO1 - Well Completion
Operator	Casillas Petroleum Corp
Well Name	HAMKER NO. 20-3A
Doc ID	1509679

Tops

Name	Top	Datum
Heebner	4190	-1332
Lansing	4318	-1460
Stark SH	4685	-1827
Swope	4695	-1837
Hush SH	4744	1886
Marmaton	4857	-1999
Cherokee	5002	-2144
Atoka	5127	-2269
Morrow	5291	-2433
Chester	5407	-2549
St Genevieve	5499	-2641
St Louis	5558	-2700

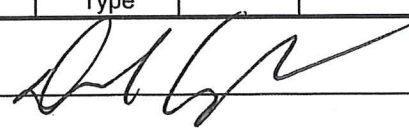
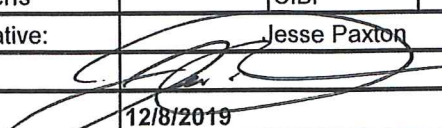


Liberal Yard #17 Phone 620-624-2277 - 1700 S. Country Estates Road, Liberal KS 67901

PRESSURE PUMPING Job Log

Customer:	Casillas Petroleum	Cement Pump No.:	38750/19919	Operator TRK No.:	78868
Address:	410 S. Boston Ave Suite 2400	Ticket #:	1718 19717 A	Bulk TRK No.:	19827/37725
City, State, Zip:	Tulsa Oklahoma 74103	Job Type:	Z-42 Cement Production Casing		
Service District:	1718 Liberal, Ks	Well Type:	OIL		
Well Name and No.:	Hamker # 20-3A	Well Location:	20-30S-31W	County:	Haskell
				State:	Kansas

Type of Cmt	Sacks	Additives		Truck Loaded On			
Class C 50/50	320	5% Gypsum, 10% Salt, 5# Gilsonite, .5% C-17, 1/4# Defoamer		19827/37725	Front	Back	
					Front	Back	
					Front	Back	
Lead/Tail:	Weight #1 Gal.	Cu/Ft/sk	Water Requirements		CU. FT.	Man Hours / Personnel	
Lead:					320	Man Hours: 4.8	
Tail:	13.8	1.49	6.65		1.49	# of Men on Job: 3	
Time (am/pm)	(BPM)	Volume (BBLs)	Pumps		Pressure(PSI)		Description of Operation and Materials
			T	C	Tubing	Casing	
12:00							On Location
12:20							Rig Up/ Safety Meeting
10:17 AM							Rig To Circulate
11:20 AM							Pressure Test To 2800psi
11:25 AM	5.5	11.9				300	Pump Mud Flush
11:35							Rat/ Mouse 50sx
11:50	6	84.9				400	Pump 270sx Tail @13.8#
12:30 PM							Shut Down / Drop Plug
12:32	6	10				130	Displace
	6	50				130	
	6	90				300	
	6	110				700	
	2	125				850	Slow Rate To 2.0BPM @850psi
12:55	2	135				1000	Land Plug
12:58							Release Back/ Float Held
1:00							Rig Down/ Job Complete

Size Hole	7 7/8	Depth			TYPE		
Csg.	5 1/2	Depth		New / Used	Packer		Depth
Land Press	1000	Depth			Retainer		Depth
Shoe Jt.	44.62	Type			Perfs		CIBP
Customer Signature: 				Basic Representative:		Jesse Paxton	
				Basic Signature:			
				Date of Service:		12/8/2019	

MBC WELL LOGGING LLC

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

Well Name: HAMKER 20-3A
 API: 15-081-22204
 Location: SEC 20 T30S R31W 1420' FSL 660' FWL HASKELL CO KS
 License Number: #34997 Region: LETTE
 Spud Date: 11/26/2019 Drilling Completed: 12/06/2019
 Surface Coordinates: 37.42086 100.740772

Bottom Hole CM: DAVID GAYLOR 580.889.1414
 Coordinates: TOOL PUSHER: TIM ARELL
 Ground Elevation (ft): 2846' K.B. Elevation (ft): 2858'
 Logged Interval (ft): 4100' To: 5721' Total Depth (ft): ELOG 5716
 Formation: KANSAS CITY
 Type of Drilling Fluid: MUDCO DRILLING FLUIDS JUSTIN WHITING 620.214.3630

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

OPERATOR

Company: CASILLAS PETROLEUM CORP
 Address: ATTN: CHRIS CARSON
 Casillas Petroleum Corporation
 Tulsa Location

MUDLOGGER

Name: TROY FOWLER (316.882.2530)
 Company: MBC WELL LOGGING LLC
 Address: ATTN: AUSTIN GARNER
 21156 22 Road
 Meade, KS 67864

ROCK TYPES

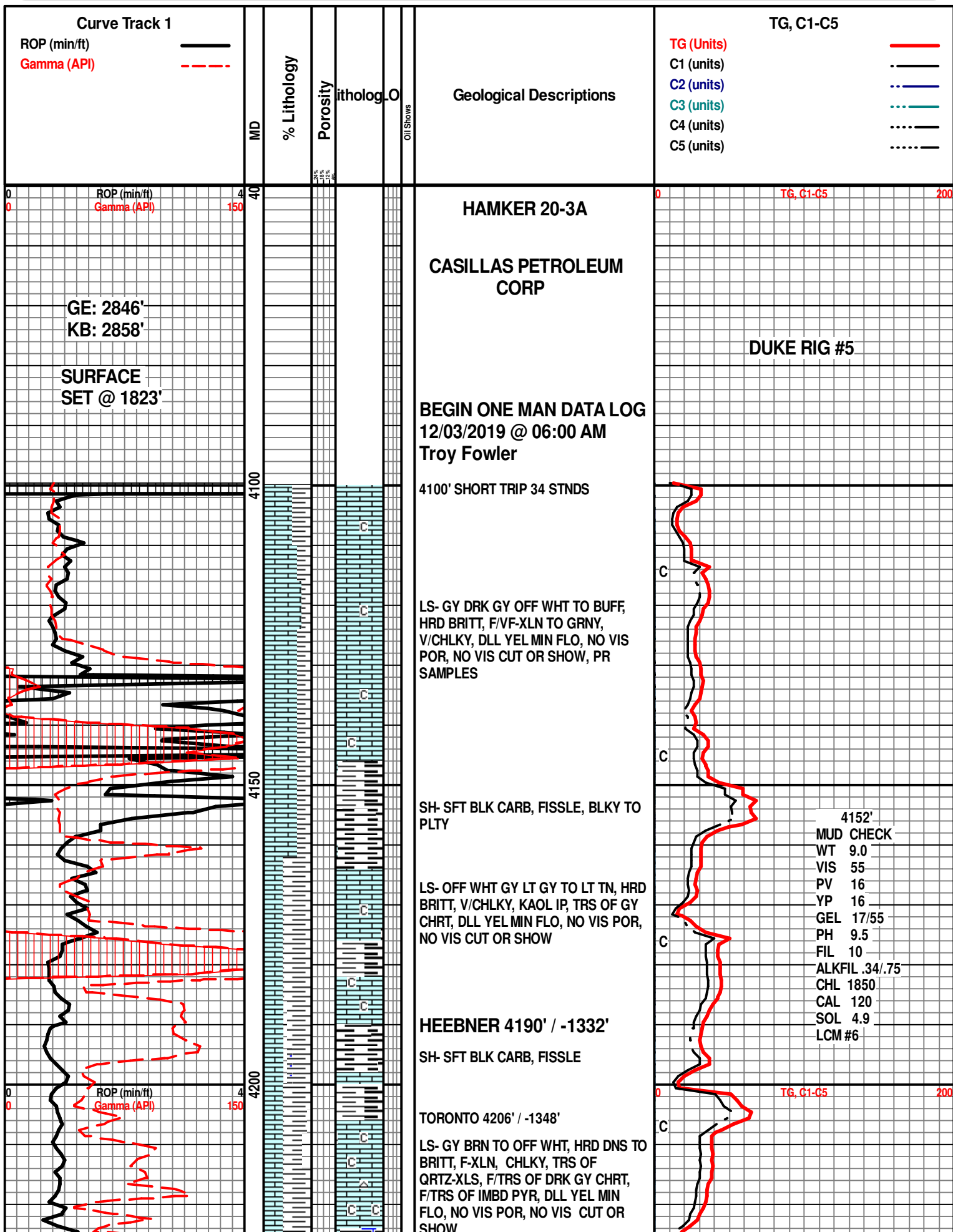
 Anhy	 Stgensndy-arkos	 Slstst-1	 Stgensndy-arkos
 Brec	 New ls-1	 Slty-shale	 Sndy ool ls
 Cht	 Carby shale	 Lmy ss-1	 Sndy-ls-1
 Coal	 Lmy carby sh-3	 Arkosic snd	 Calc shale
 Congl	 Carb sh	 Ss	 Granitewash
 New dolomite	 Gyp	 Grn sh strk	 Ls shly-b
 Dolo new	 Slstst	 Lmy sh-2	 Poor sortd ss
 Newdolo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

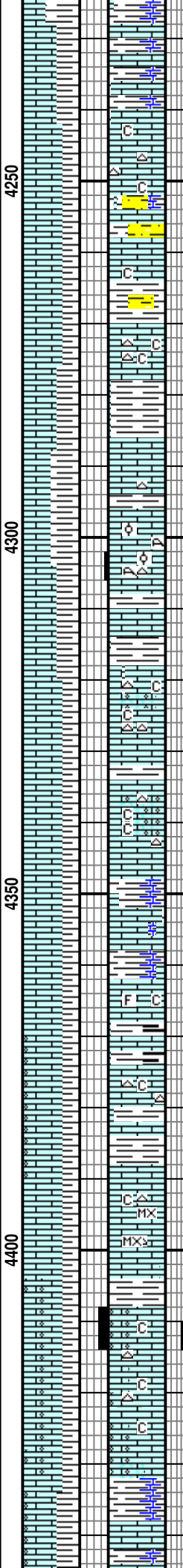
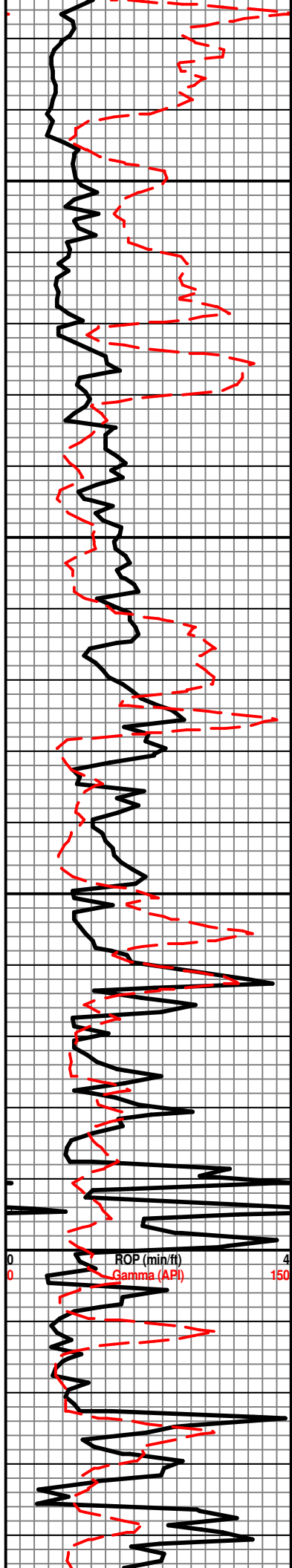
Comments

STEP ENERGY SERVICES C/O BARRETT BAILEY PH# 918.645.1091

DSTs

DST#1 4678' TO 4740' TRILOBITE TESTING





LS- GY LT GY TO BUFF, HRD BRITT, M/F-XLN TO GRNY, CHLKY, TRS OF GY TN CHRT, DLL YEL MIN FLO, NO VIS POR OR SHOW

SILTY LYMY SH- GY OFF WHT, CHLKY, SNDY TXT IP, NO VIS FLO OR CUT

LS- CRM OFF WHT TO GY, HRD BRITT, M/F-XLN TO GRNY TXT, CHLKY, DLL YEL MIN FLO, NO VIS POR OR SHOW

LS- GY OFF WHT TN TO BUFF, HRD DNS TO BRITT, F/VF-XLN, SUCRO TO CHLKY, TRS OF FOSS FRAGS, TRS OF TN GY CHRT, TRS OF DRK OOL IP, DLL YEL MIN FLO, POSS PR OOLICASTIC POR IP, NO SHOW

LANSING 4318' / -1460'

LS- OFF WHT CRM TN, HRD DNS, F-XLN, CHLKY, TRS OF FOSS FRAGS SME OOL IP. ABLT WHT CHLK, F/TRS TN GY CHRT, DLL PALE YEL FLO, POSS PR INTER-OOL POR IP, NO VIS CUT OR SHOW

LS- TN DRK GY OFF WHT, HRD DNS TO BRITT, CHLKY, F-XLN, TRS OF GY CHRT, TRS OF SCATT OOL, SHLY IP, FOSS FRAGS, DLL YEL MIN FLO, NO VIS POR, NO VIS CUT OR SHOW

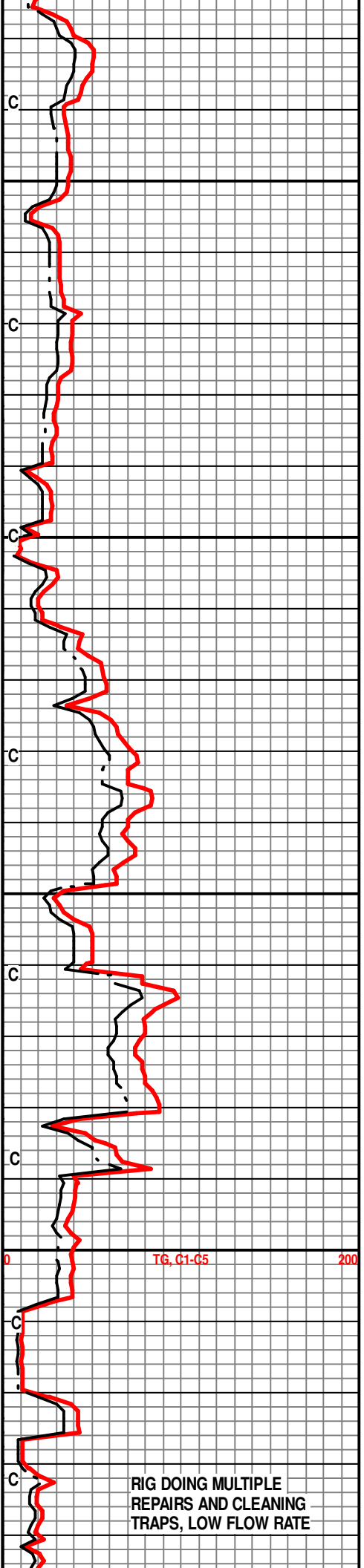
SH- GY DRK GY TO BLK, FRM BRITT, BLKY TO SLI PLTY, CARBY IP

LS- TN GY TO BUFF, HRD DNS, F-VF-XLN TO CRYPTO-XLN, CHLKY, DRK GY TO BRN CHRT, SPOTTY GLD YEL FLO IN CHRT TO V/DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

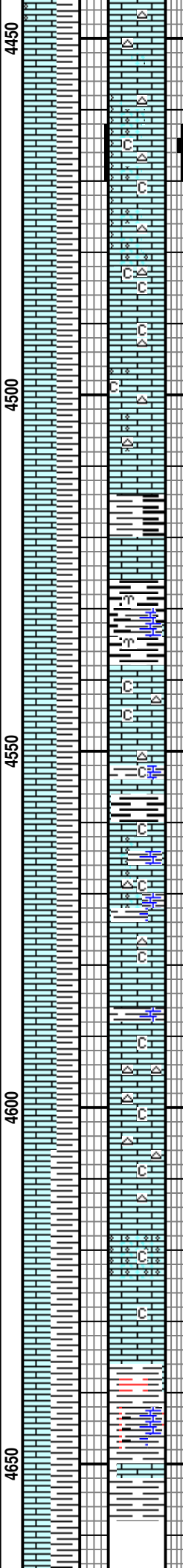
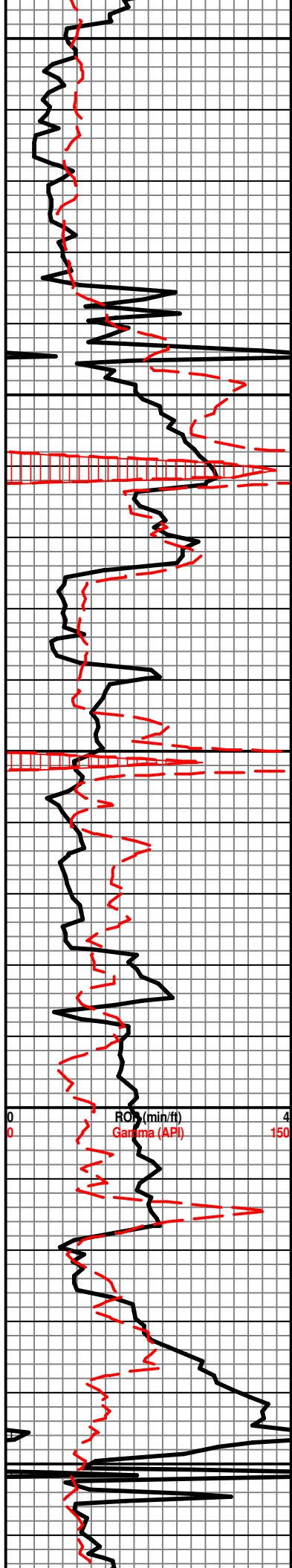
LS- GY OFF WHT LT TN, HRD BRITT, F-XLN, SUCRO TO CHLKY, VF-GRN OOL IP, GRNY TXT, CALC-XLS, TRS OF TN OFF WHT OPAQ CHRT, PALE YEL MIN FLO, POSS PR INTER-GRN POR, NO VIS CUT OR SHOW, NO ODOR

SH- GY DRK GY TO BRN, FRM BRITT, SMTH BLKY TO GRNY, CALC

LS- TN OFF WHT GY, HRD DNS



RIG DOING MULTIPLE REPAIRS AND CLEANING TRAPS, LOW FLOW RATE



LS- TN OFF WHT GT, HRD DNS,
F/VF-XLN TO SLI CRYPTO, SUCRO TO
CHLKY, TN GY CHRT, DLL YEL MIN
FLO, NO VIS POR, NO VIS CUT OR
SHOW

LS- CRM OFF WHT LT TN TO LT GY,
HRD DNS TO BRITT, F-XLN,
SUB-SUCRO TO CHLKY, SPARRY. TRS
OF OOL F/GRN FR SORTD, GRNY TXT
IP, F/TRS OF GY CHRT, PALE GLD YEL
FLO IP TO DLL YEL THRU, POSS PR
MICRO VUG TO INTER-GRN POR IP, NO
VIS CUT OR SHOW, NO ODOR

LS- TN GY OFF WHT TO BUFF, HRD
DNS TO BRITT, F/VF-XLN, SUCRO TO
CHLKY, TRS OF GY TN CHRT, DLL
PALE YEL FLO, NO VIS POR, NO VIS
CUT OR SHOW

SH- GY DRK GY BLK TO BRN, FRM
BRITT TO SFT, SMTH BLKY, GRNY,
CARB, TRS OF FOSS FRAGS

LS- TN LT GY TO BUFF, HRD BRITT,
F-XLN, SUCRO TO CHLKY, TRS OF DRK
GY TO BLK CHRT, DLL YEL MIN FLO,
NO VIS POR OR SHOW

SH- GY DRK GY TO BRN, FRM BRITT,
PLTY BLKY, CARBY TO CALC

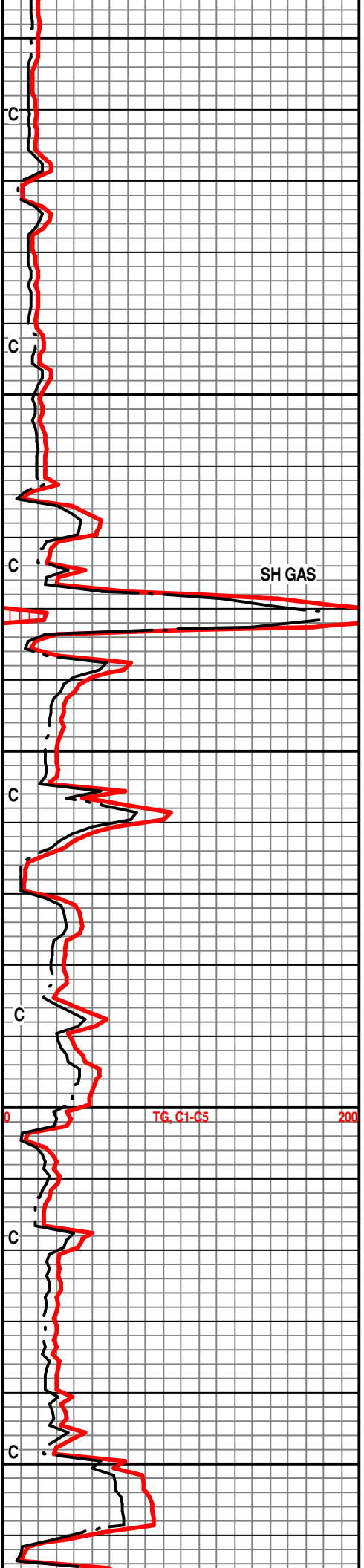
LS- TN GY OFF WHT TO BUFF, HRD
DNS BRITT, F-XLN TO MICRO-OOL,
GRNY, SHLY, GY BRN CHRT, DLL YEL
MIN FLO, NO VIS CUT OR SHOW

LS- GY TN OFF WHT, HRD BRITT,
F/VF-XLN, SUB-SUCRO TO CHLKY, TRS
OF TN GY CHRT, SHLY IP, PALE YEL
FLO, NO VIS POR OR SHOW

LS- GY TN CHLKY MICRO TO VF OOL
SME SPAR CMTD, SME CHT INCLUS,
PALE YEL FLO, POSS INTER-GRN
POR, NO VIS CUT OR SHOW

SH- RD BRN, SFT GUMMY, CARBY

SAMPLES 4670 & 4680 NO RETURNS



SAM LES 4070 & 4080 NO RETURNS
BROWN GUMMY CLAY ONLY

LS- GY OFF WHT LT TN, HRD DNS,
F-XLN, SUCRO CHLKY, GRNY, TRS OF
OOL, YEL MIN FLO, NO VIS POR, NO
VIS CUT OR SHOW POOR SAMPLES

STARK SH 4685' / -1827' *
SH- SFT BLK CARB

SWOPE 4695" / -1837' *

LS- CRM OFF WHT TO TN, HRD DNS TO BRITT,
F/VF-XLN TO MICRO-OOL FR SORTD, TRS OF GY
CHRT, QRTZ-XLS IP, SUB-SUCRO TO CHLKY,
PALE YEL FLO TO SPOTTY BRITE YEL FLO, FR/PR
INTER-GRN TO MICRO-VUG POR, SLOW GLD FLO
TO FAST MILKY BLUE STREAM CUT, SPOTTY OIL
STAINS, FAIR OILY GASSY ODOR, CAN SMELL ON
LOCATION AND PITS

* SHORT TRIP TO 4100' RT TO BOTTOM CIRC
1HR STRAP OUT TOH FOR DST #1. STRAP OUT
-4.93 TOTAL DEPTH. ADJUSTED TOPS FOR
STARK AND SWOPE BHA 12/04/2019

RETURN TO DRILLING 01:00 AM 12/05/2019

HUSH SH 4744' / -1886'

SH- BLK BRN CARB, FRM BRITT,
CARBY

LS- OFF WHT GY TN, HRD DNS TO
BRITT, F-XLN TO MICRO-OOL FR IP,
CHLKY TO SHLY IP, DLL YEL MIN FLO,
NO VIS POR, NO VIS CUT OR SHOW,
NO DET ODOR

SH TO SILTY SH- GY DRK GY BLK TO
LT GRN, GRNY TO SMTH BLKY, TRS OF
PYR, CALC IP, CARBY

POOR SAMPLE QUALITY

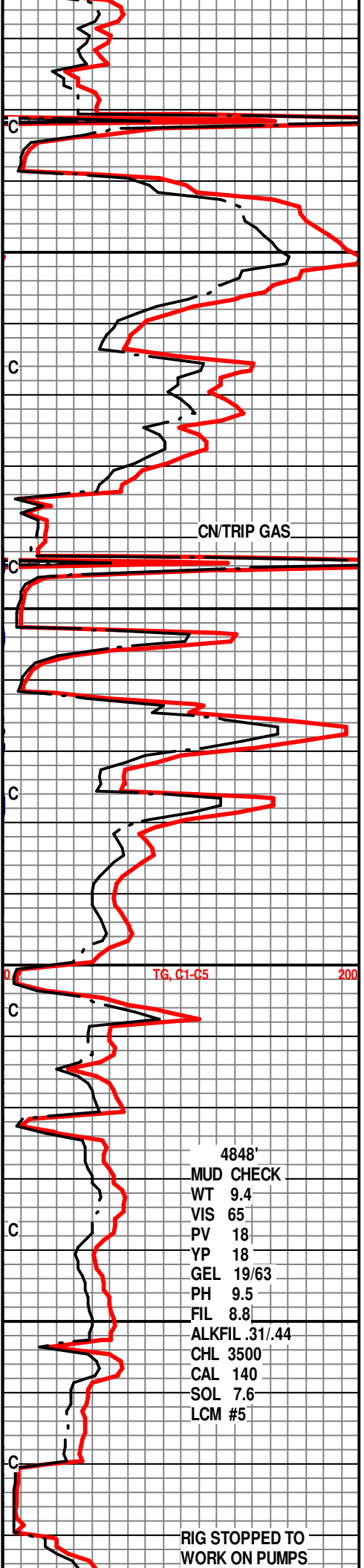
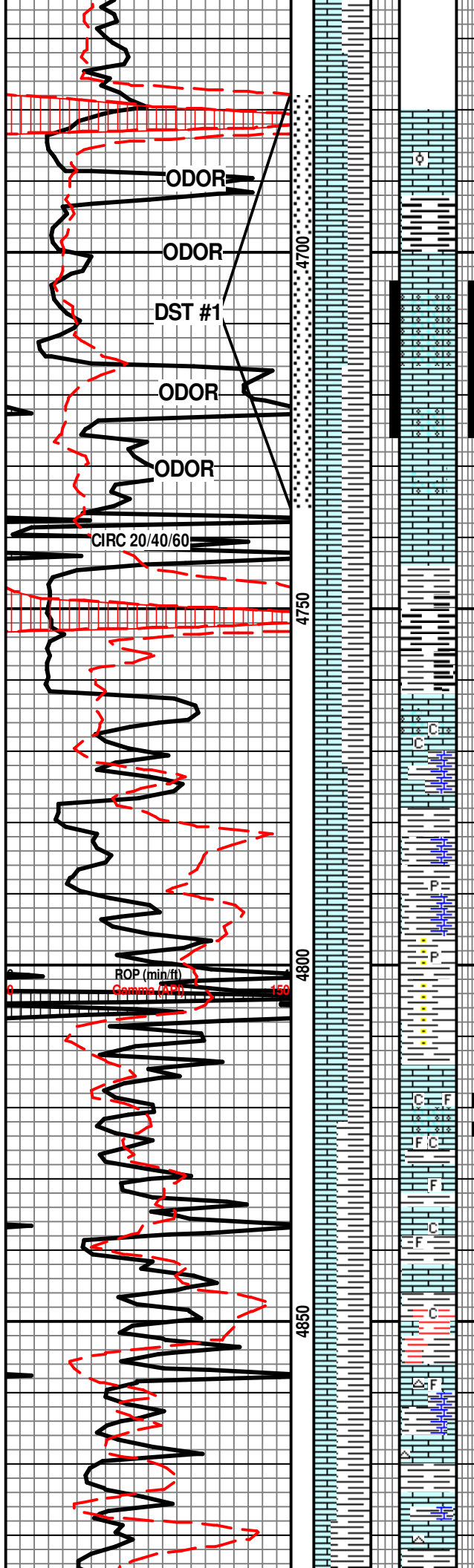
LS- CRM OFF WHT GY TO TN, HRD
DNS, F-XLN, SUCRO TO CHLKY, TRS
OF FOSS FRAGS, TRS OF GY OFF
WHT TO TN CHRT SME WITH OOL, TRS
OF OOL IP, SHLY, DLL SPOTTY YELL
FLO TO DLL YEL FLO THRU, POSS PR
FRAC TO MICRO-PP POR IP, NO VIS
CUT OR SHOW, NO ODOR

SH- RED GY GRN , SILTY, SFT, CALC

MARM 4857' / -1999'

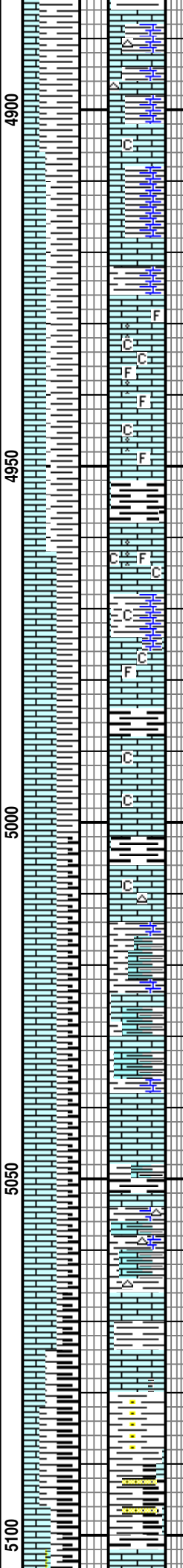
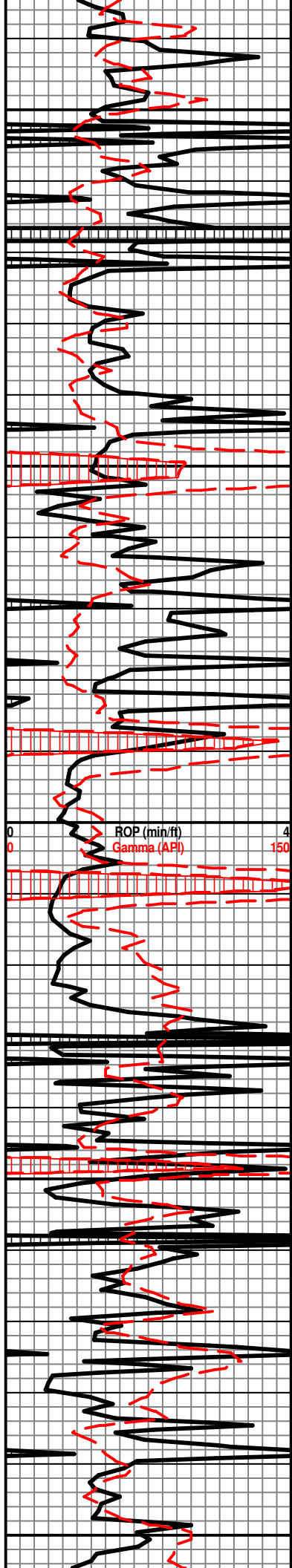
LS- GY OFF WHT TN, HRD DNS, F-XLN
CHLKY, SHLY, FOSS FRAGS, GY DRK
CHRT, DLL YEL MIN FLO, NO VIS POR,
NO VIS CUT OR SHOW

LS- GY DRK GY OFF WHT TO TN, HRD



4848'	
MUD CHECK	
WT	9.4
VIS	65
PV	18
YP	18
GEL	19/63
PH	9.5
FIL	8.8
ALKFIL	.31/.44
CHL	3500
CAL	140
SOL	7.6
LCM	#5

RIG STOPPED TO
WORK ON PUMPS



DNS TO BRITT, F-XLN, CHLKY, IMBD GY DRK GY SH, GRNY IP, DLL YEL MIN FLO, NO VIS POR, NO VIS CUT OR SHOW

NO RETURNS

LS- GY TN OFF WHT, HRD DNS TO BIRTT, F-XLN, SUCRO TO CHLKY, TRS OF FOSS FRAGS AND OOL, DLL YEL MIN FLO, POSS PR INTER-FOSS POR IP, NO VIS CUT OR SHOW, NO ODOR

BANDERRA SH

SH- SFT BLK CARB, BLKY PLATY PAWNEE 4961' / -2103'

LS- CRM OFF WHT TN TO BUFF, HRD DNS TO BRITT, CHLKY, TRS OF FOSS FRAGS & OOL, SHLY IP, WEATERD, DLL YEL MIN FLO, PR OOLICASTIC POR, NO VIS CUT OR SHOW, NO ODOR

FT SCOTT

LS- TN BUFF, HRD DNS, F-VF-XLN, CHLKY, DLL YEL FLO, CHLKY W/FOSS FRAGS, POSS FRAC POR, DLL YEL MIN FLO, NO VIS CUT OR SHOW

CHEROKEE 5002' / -2144'

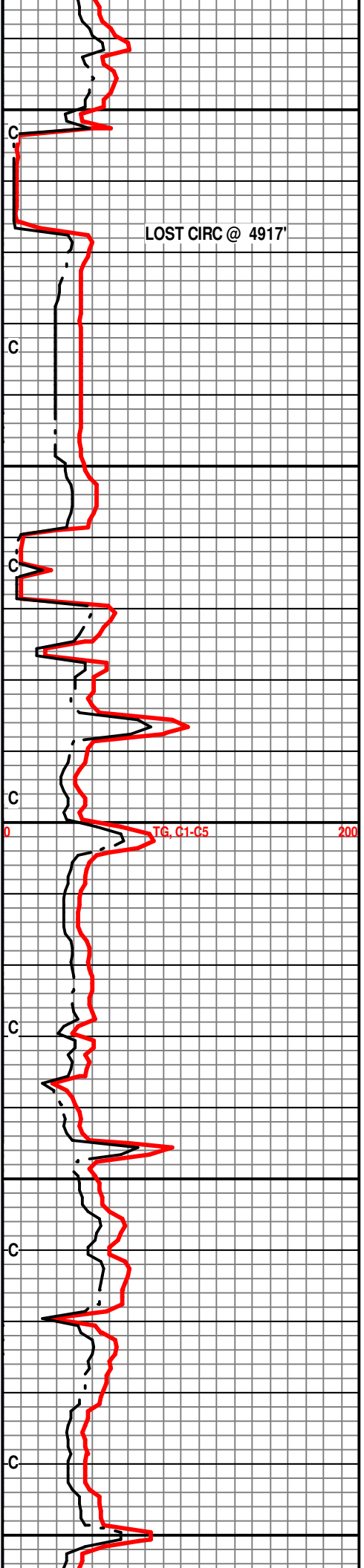
LS- OFF WHT GY TN, HRD DNS BRITT, F-XLN, CHLKY, TRS F GY CHRT, V/DLL PALE YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

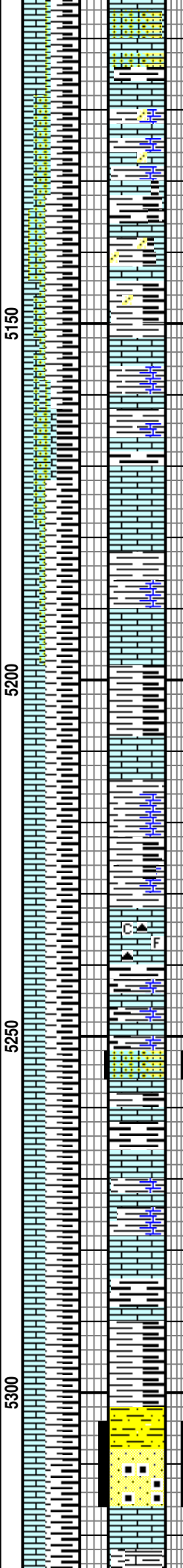
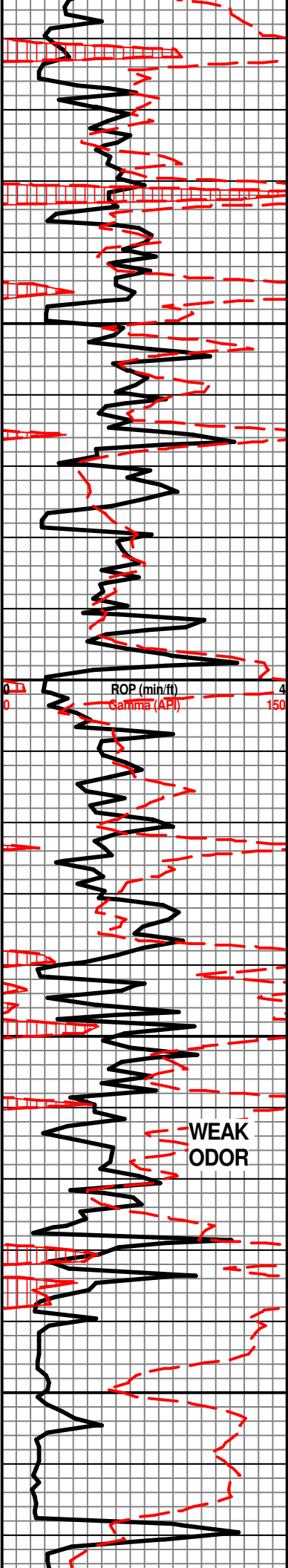
SHLY LS- GY OFF WHT TN, BRITT, CALC, F-GRN, SFT TO HRD, IMBD TO DISS GY DRK GY SH, WEATHERD

SH- SFT BLK CARB

SHLY LS- GY DRK GY TN BUFF TO OFF WHT, CHLKY, TRS OF PYR, TRS OF GY DR GY CHRT

SILTY SH- GY DRK GY BLK TO DAUB, FIRM BRITT TO SFT, GRNY TXT, CARBY, POSS SS STRNGS





SNDY LS- OFF WHT GY TN, HRD DNS TO BRITT, F/VF-GRNS, FR SORTD, SME SS GRNS SCATT IN TRAY, PALE YEL FLO, POSS PR INTER-GRN POR, NO VIS CUT OR SHOW, NO ODOR

ATOKA 5127' / -2269'

INTERBD CARBY SH AND CHLKY OFF WHT TO GY SNDY LS, SME FOSS FRAGS, SCATT SS GRNS

SHLY LS- GY DRK GY TN, HRD BRITT, IMBD DISS GY BLK SH, F-XLN CHLY IP, DLL YEL FLO, NO VIS POR OR SHOW

LS- DK TN BRN HD CRYP XLN ABDT BRN CHLKY,

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

SH- GY DRK GY BLK, FRM BRITT, SMTH BLKY, GRNY CARBY

SH- GY DRK GY TO BLK, SMTH BLKY, FRM BRITT, CARBY

LS- GY OFF WHT MOTT, HRD DNS, CHLKY, DRK GY BRN CHRT, FOSS FRAGS, DLL YE MIN FLO, NO VIS POR OR SHOW

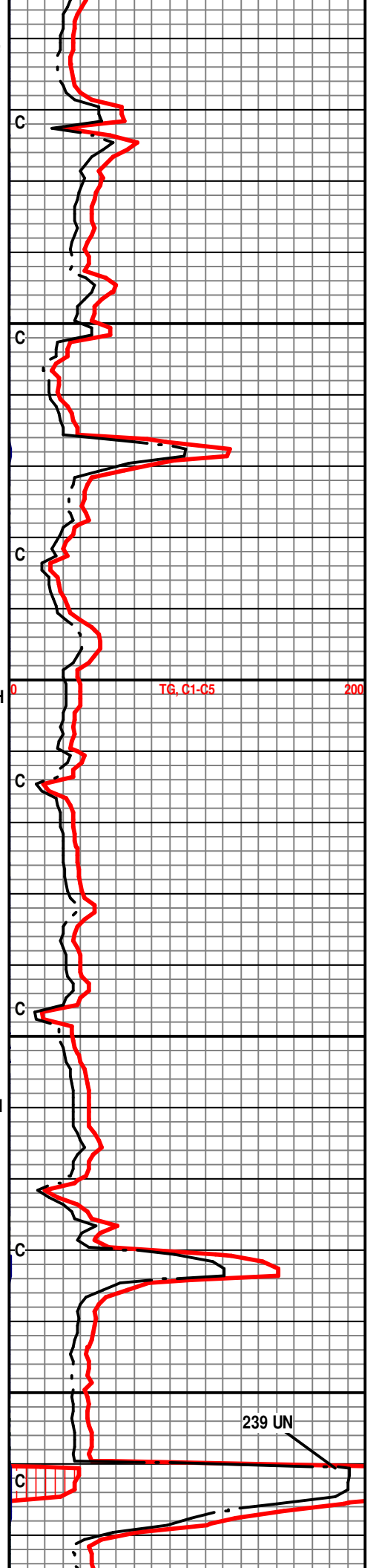
SNDY LS- CRM LT GY BUFF, VVF-GRNS, TT, CALC CMNT, DLL YEL FLO, DISS CARB, POSS PR INTER-GRN POR, NO VIS CUT OR SHOW, WEAK GASSY ODOR

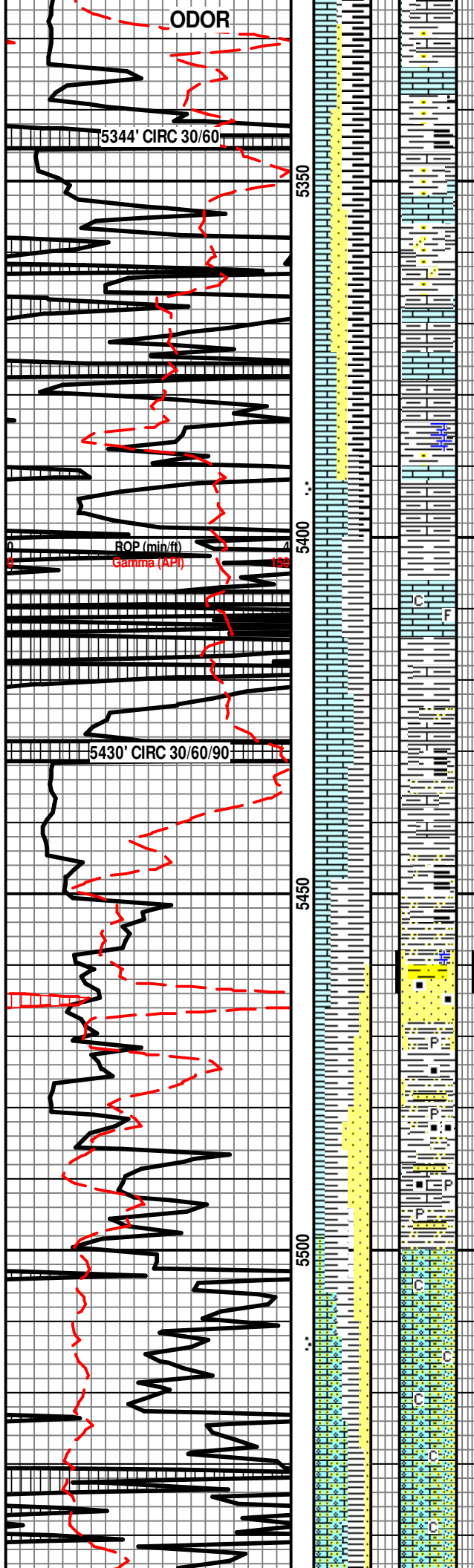
WEAK ODOR

MORROW 5291' / -2433'

SH- SFT BLK CARBY, GUMMY, GRNY TRS OF PYR

SS- TN BRN OFF WHT, FRI TO SILTY, VVF-GRNS SUB RND TO SUB-ANG, IMBD TO DISS CARBY SH, CALC CMNT IP, SME CLSTRS VF-GRNS, TRS OF HEAVY OIL STAIN TO LIVE OIL IP, V/DLL GLD FLO TO NO FLO, FR INTER-GRN POR, FAST YEL-GRN FLUSH CUT TO BLUISH STREAM CUT, THICK OILY RING CUT, FAIR GASSY ODOR





SILTY SH- DRK GY BLK, CALC, GUMMY

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

SH- GY DRK GY TO GRN, FRM SFT, SMOOTH SPLNTY, CALC

CHESTER 5407' - 2549'

LS- CRM OFF WHT LT TN TO MOTT, HRD DNS TO BRITT, F/VF-GRNS, SUCRO TO SUB-CHLKY, CALC GRNS/BOUNDSTN, TT, F/TRS OF FOSS FRAGS, PALE YEL MUSTRD FLO, POSS PR INTER-POR, NO VIS CUT OR SHOW, NO ODOR DET

SILTY SNDY SH- GY DRK GY BLK GRN, FRM BRITT TO SFT, SMTH SPNTY TO GRNY, SS STRNGS, CARBY, TRS OF PYR, CALC

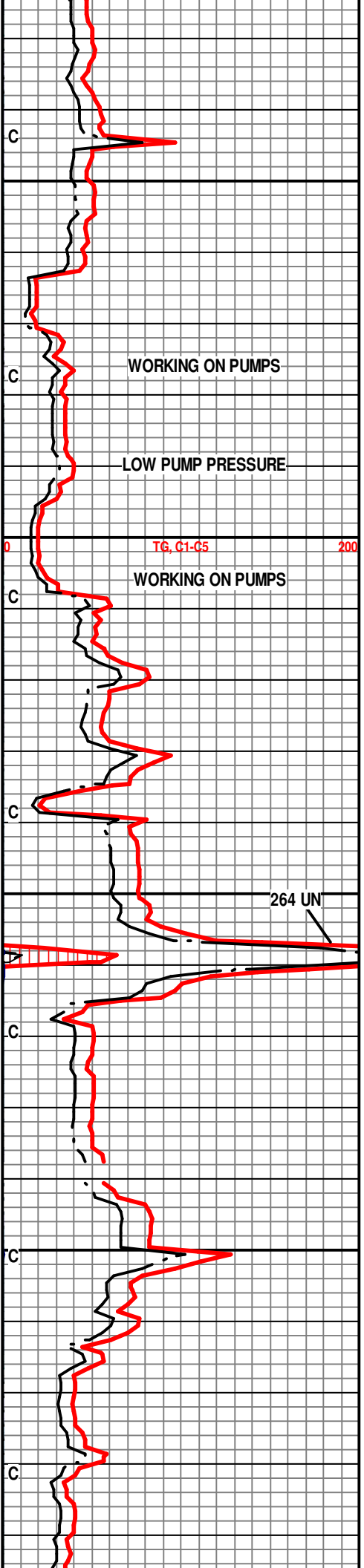
SS- GY OFF WHT CLR, FRM TT, CONSOLID, F/VF-QRTZ GRNS, CRS SUB RND TO SUB ANG, FR SORTD, CALC CMNT, IMBD DISS TO LAMN SH IP SME CARBY, NO VIS FLO, PR INTER-GRN POR, WEAK SLO MILKY BLU FLUSH CUT, NO ODOR IN SAMPLES

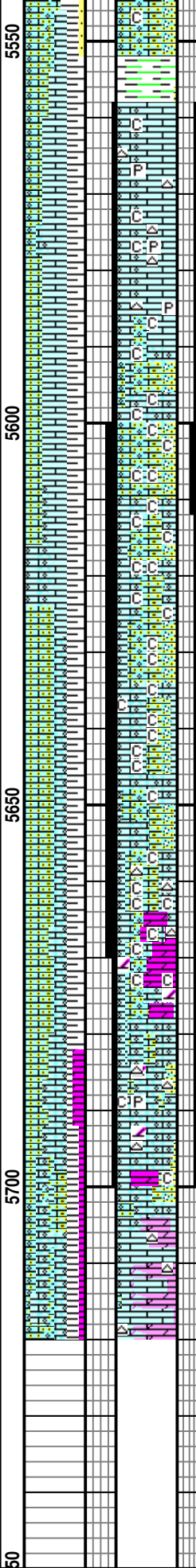
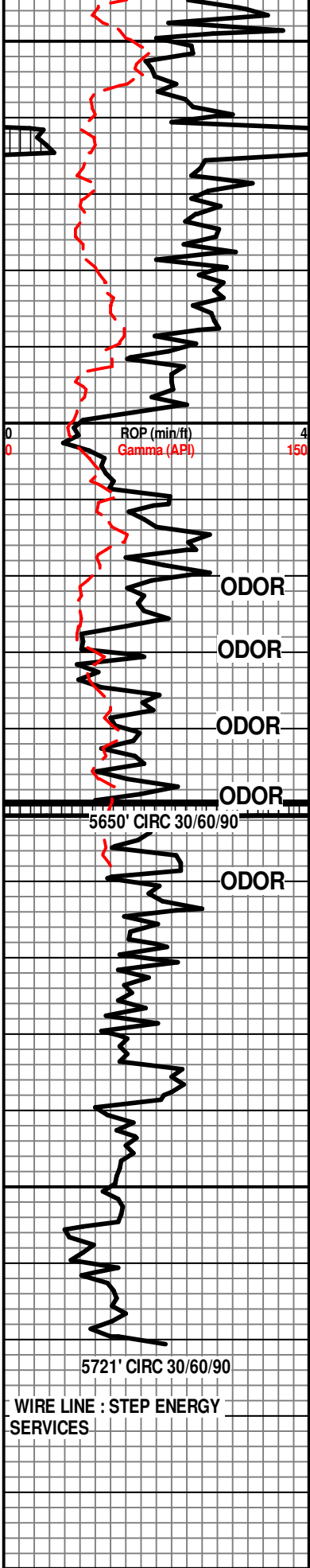
SH- GY DRK GY BRN, FRM BRITT TO SFT, SGRNY BLKY, SS STRNGS, PYR, CARBY

ST GEN 5499' - 2641'

OOL LS- CRM OFF WHT LT TN, HRD BRITT, F/VF-OOL GRNS IN CHLKY MTX FR SORTD, SUCRO TO CHLKY, DLL PALE YEL MIN FLO, POSS PR INTER-GRN POR, NO VIS CUT OR SHOW, NO ODOR

OOL LS- CRM OFF WHT LT TN, HRD BRITT, M/F-OOL GRNS SUCO TO CHLKY, FR/PR SORTD OOL, F/TRS OF GY OFF WHT CHRT, DLL PALE YEL MIN FLO, POSS PR INTER-GRN POR, NO VIS CUT OR SHOW, NO ODOR





SH- GY GRN, FRM SFT, SOAPY TXT, SMTH SPLINTY, TRS OF PYR

ST LOUIS 5558' / -2700'

OOL LS- OFF WHT GY LT GY TO LT TN, HRD DNS TO BRITT, M/F-OOL GRS PR SORTD, INCR LS CONTENT 40%, TRS OF TN GY CHRT, TRS OF PYR, NO VIS POR, NO VIS CUT OR SHOW, NO ODOR

OOL-LS- OFF WHT GY TN, HRD BRITT, F/VF-MICRO OOL GRN FR SORTD, DECR LS CONTENT 15%, SUCRO TO CHLKY, DLL YEL MIN FLO, PR INTER-GRN POR, NO VIS CUT OR SHOW, NO ODOR

OOL-LS- OFF WHT GY TN, HRD BRITT, F/VF-MICRO OOL GRN FR SORTD, DECR LS CONTENT 10%, SUCRO TO ABNDT CHLKY, DLL YEL BLUISH MIN FLO TO SPOTTY YEL, FAST MILKY BLU FLUSH CUT, STRNG GAS ODOR

OOL-LS- OFF WHT TN, HRD BRITT, F/VF-MICRO OOL GRN TO M/F-GRNS IP FR SORTD, DECR LS CONTENT 10%, SUCRO TO ABNDT CHLKY, DLL YEL BLUISH MIN FLO TO SPOTTY YEL, SLO MILKY GRN FLUSH CUT, STRNG GAS ODOR

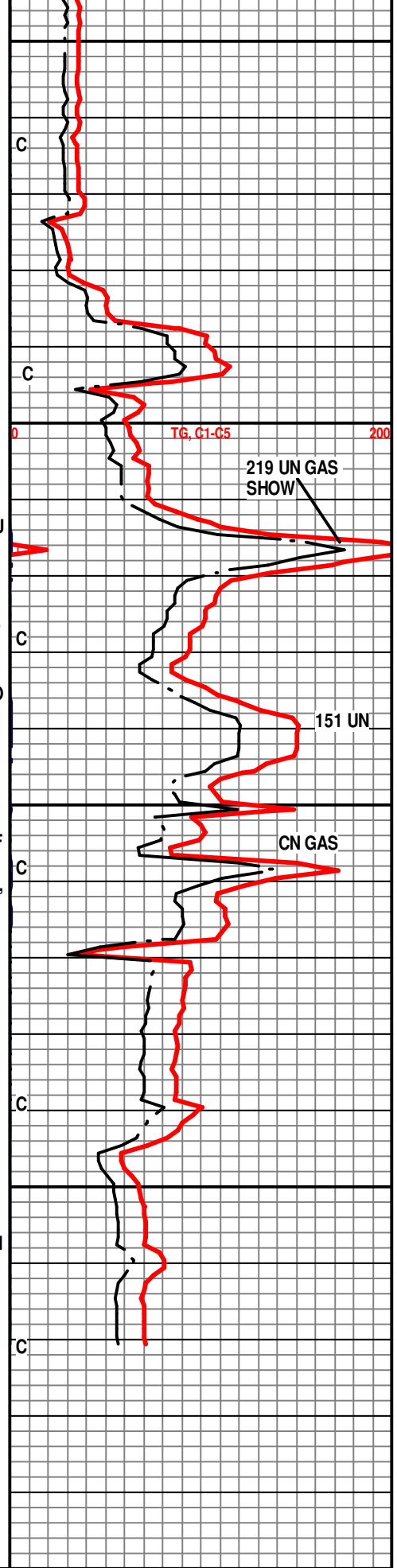
OOL- CRM OFF WHT TN TO MOTT GY, HRD DNS BRITT, F/VF-GRNS OOL 10% LS CONTENT, FR/WELL SORTD, SUCRO TO ABNDT CHLKY, TRS OF OFF WHT VITR CHRT, PALE DLL YEL FLO, PR/FR INTER-GRN POR, NO VIS SHOW, FAIR GASSY ODOR

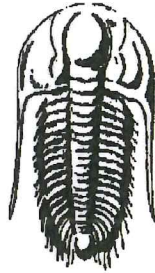
OOL- CRM OFF WHT TN TO MOTT GY, HRD DNS BRITT, F/VF-GRNS MICRO OOL 10% LS TO DOLO CONTENT, FR/WELL SORTD, SUCRO TO ABNDT CHLKY, TRS OF TN OFF WHT VITR CHRT, PALE DLL YEL FLO, PR/FR INTER-GRN POR, NO VIS CUT, FAINT ODOR

OOL- CRM OFF WHT TN TO MOTT GY, HRD DNS BRITT, M/F-GRNS OOL PR SORTD 80% DOLO/LS CONTENT, SUCRO TO CHLKY, F/TRS OFF WHT VITR CHRT SME OOL CHRT, TRS OF TN OOL DOLO IP, PALE DLL YEL FLO, POSS INTER-GRN POR, NO VIS CUT, NO ODOR

RTD 5721' @ 11:05 PM 12/06/2019

**THANK YOU FOR USING
MBC WELL LOGGING
AUSTIN & MARLA GARNER
TROY FOWLER**





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Casillas Petroleum Corp.**

348 Rd DD
Satanta, KS 67870

ATTN: Troy Fowler

Hamker #20-3A

20-30S-31W Haskell,KS

Start Date: 2019.12.04 @ 10:00:00

End Date: 2019.12.04 @ 20:52:30

Job Ticket #: 66103 DST #: 1

Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2019.12.09 @ 09:32:35

Casillas Petroleum Corp.

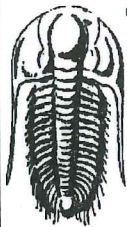
20-30S-31W Haskell,KS

Hamker #20-3A

DST # 1

Swope

2019.12.04



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Casillas Petroleum Corp.

20-30S-31W Haskell,KS

348 Rd DD
Satanta, KS 67870

Hamker #20-3A

Job Ticket: 66103

DST#: 1

ATTN: Troy Fowler

Test Start: 2019.12.04 @ 10:00:00

GENERAL INFORMATION:

Formation: **Swope**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:02:50

Time Test Ended: 20:52:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Martine Salinas

Unit No: 82

Interval: **4678.00 ft (KB) To 4740.00 ft (KB) (TVD)**

Total Depth: 4740.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2858.00 ft (KB)

2847.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8734

Outside

Press@RunDepth: 181.52 psig @ 4679.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.12.04

End Date: 2019.12.04

Last Calib.: 2019.12.04

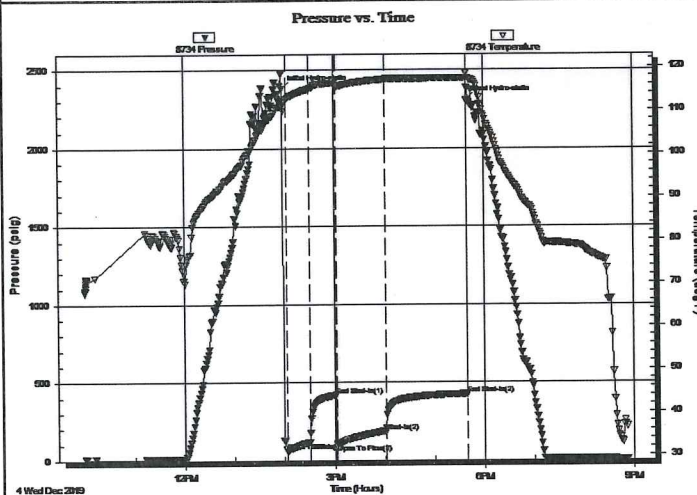
Start Time: 10:00:01

End Time: 20:52:30

Time On Btm: 2019.12.04 @ 13:58:40

Time Off Btm: 2019.12.04 @ 17:39:30

TEST COMMENT: 30-IF-B.O.B @ 1 min 20 secs (blow built to 421") on 1/8" choke G.T.S @ 30 mins
30-ISI-S.blow back @ 1 mins built to 1 1/2"
60-FF-B.O.B @ 1 min (blow built to 449 3/4") on 1/8" choke
90-FSI-S.blow back ASASI built to 6 3/4"



PRESSURE SUMMARY

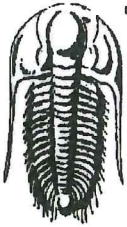
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2379.72	111.14	Initial Hydro-static
5	61.24	112.44	Open To Flow (1)
32	113.38	114.96	Shut-In(1)
63	418.14	116.35	End Shut-In(1)
65	104.52	115.43	Open To Flow (2)
123	181.52	117.18	Shut-In(2)
221	424.66	117.49	End Shut-In(2)
221	2303.60	118.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
400.00	GMCW 24%, 30%M, 46%W	5.61
0.00	GTS	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	2.05	6.16
Last Gas Rate	0.13	12.50	10.07
Max. Gas Rate	0.13	12.50	10.07



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Casillas Petroleum Corp.

20-30S-31W Haskell,KS

348 Rd DD
Satanta, KS 67870

Hamker #20-3A

Job Ticket: 66103

DST#: 1

ATTN: Troy Fowler

Test Start: 2019.12.04 @ 10:00:00

GENERAL INFORMATION:

Formation: **Swope**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:02:50

Time Test Ended: 20:52:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Martine Salinas

Unit No: 82

Interval: **4678.00 ft (KB) To 4740.00 ft (KB) (TVD)**

Reference Elevations: 2858.00 ft (KB)

Total Depth: 4740.00 ft (KB) (TVD)

2847.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8959 Inside

Press@RunDepth: psig @ 4679.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.12.04

End Date: 2019.12.04

Last Calib.: 2019.12.04

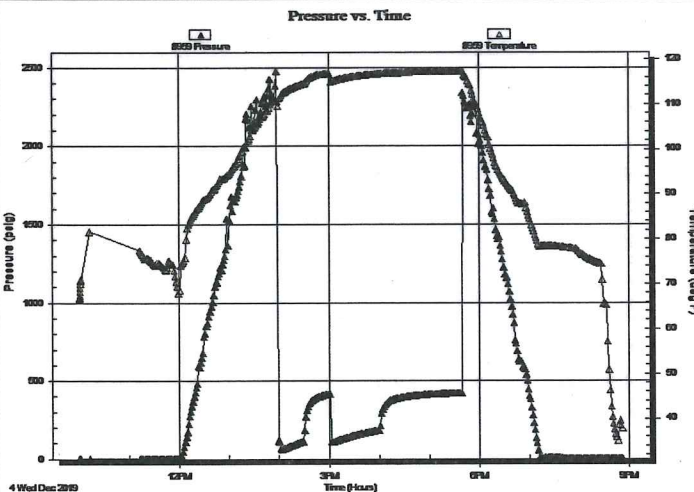
Start Time: 10:00:01

End Time: 20:52:30

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IF-B.O.B @ 1 min 20 secs (blow built to 421") on 1/8" choke G.T.S @ 30 mins
30-ISI-S.blow back @ 1 mins built to 1 1/2"
60-FF-B.O.B @ 1 min (blow built to 449 3/4") on 1/8" choke
90-FSI-S.blow back ASASI built to 6 3/4"



PRESSURE SUMMARY

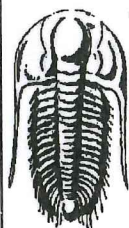
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
400.00	GMCW 24%, 30%M, 46%W	5.61
0.00	GTS	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	2.05	6.16
Last Gas Rate	0.13	12.50	10.07
Max. Gas Rate	0.13	12.50	10.07



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Casillas Petroleum Corp.

20-30S-31W Haskell, KS

348 Rd DD
Satanta, KS 67870

Hamker #20-3A

Job Ticket: 66103

DST#: 1

ATTN: Troy Fowler

Test Start: 2019.12.04 @ 10:00:00

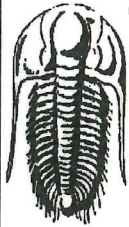
Tool Information

Drill Pipe:	Length: 4674.00 ft	Diameter: 3.80 inches	Volume: 65.56 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 65.56 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 69000.00 lb
Depth to Top Packer:	4678.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.00 ft			
Tool Length:	90.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4655.00	
Hydraulic tool	5.00	1113		4660.00	
Jars	5.00	01-07		4665.00	
Safety Joint	3.00	-001		4668.00	
Packer	5.00			4673.00	28.00 Bottom Of Top Packer
Packer	5.00			4678.00	
Packer - Shale	0.00			4678.00	
Stubb	1.00			4679.00	
Recorder	0.00	8959	Inside	4679.00	
Recorder	0.00	8734	Outside	4679.00	
Perforations	22.00			4701.00	
Change Over Sub	1.00			4702.00	
Drill Pipe	32.00			4734.00	
Change Over Sub	1.00			4735.00	
Bullnose	5.00			4740.00	62.00 Bottom Packers & Anchor

Total Tool Length: 90.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Casillas Petroleum Corp.

20-30S-31W Haskell, KS

348 Rd DD
Satanta, KS 67870

Hamker #20-3A

Job Ticket: 66103

DST#: 1

ATTN: Troy Fowler

Test Start: 2019.12.04 @ 10:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

29000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1850.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
400.00	GMCW 24%, 30%M, 46%W	5.611
0.00	GTS	0.000

Total Length: 400.00 ft

Total Volume: 5.611 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .435 @ 40.5 degs = 29,000 PPM

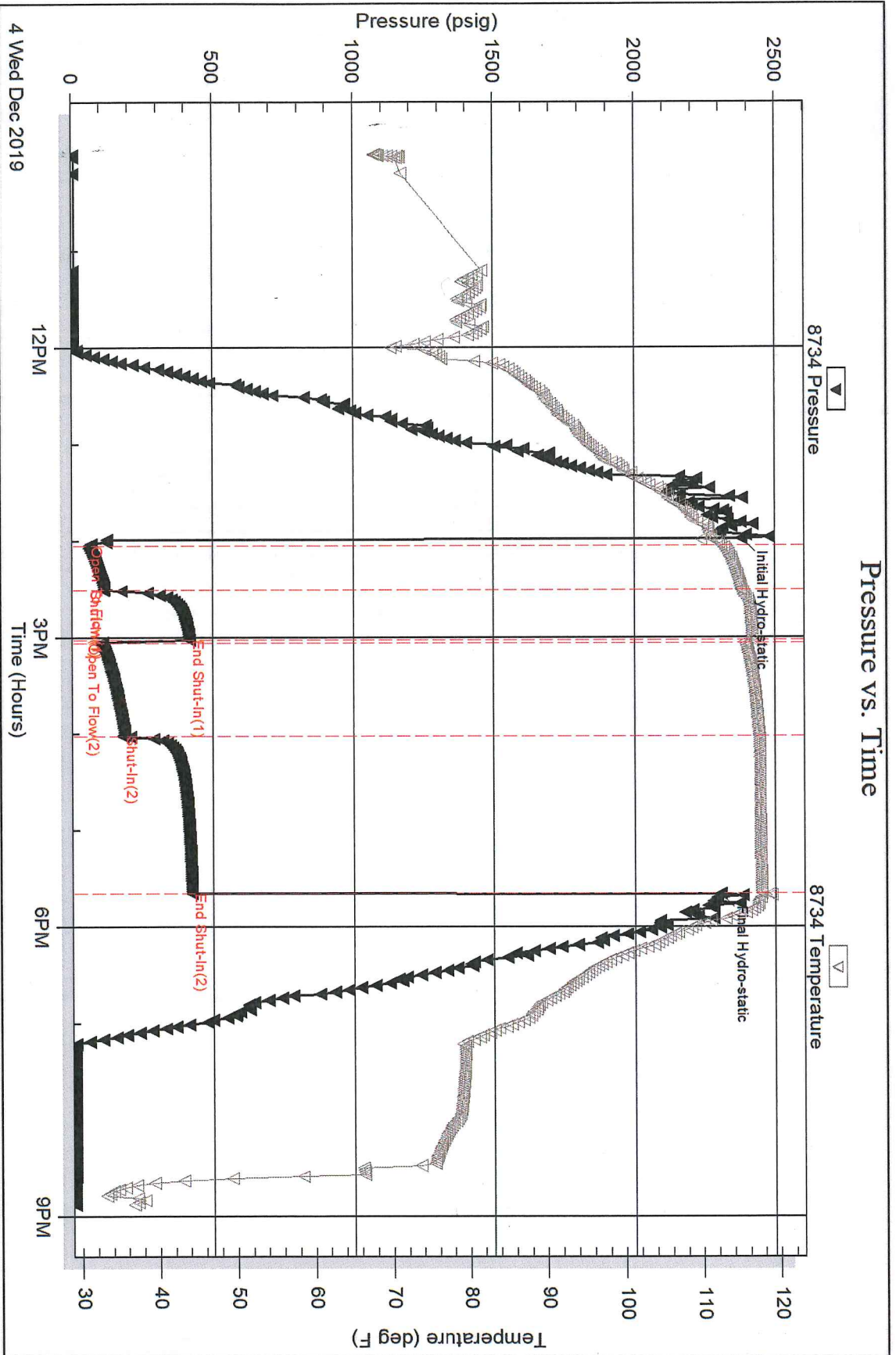
Serial #: 8734

Outside Casillas Petroleum Corp.

Harker #20-3A

DST Test Number: 1

Pressure vs. Time



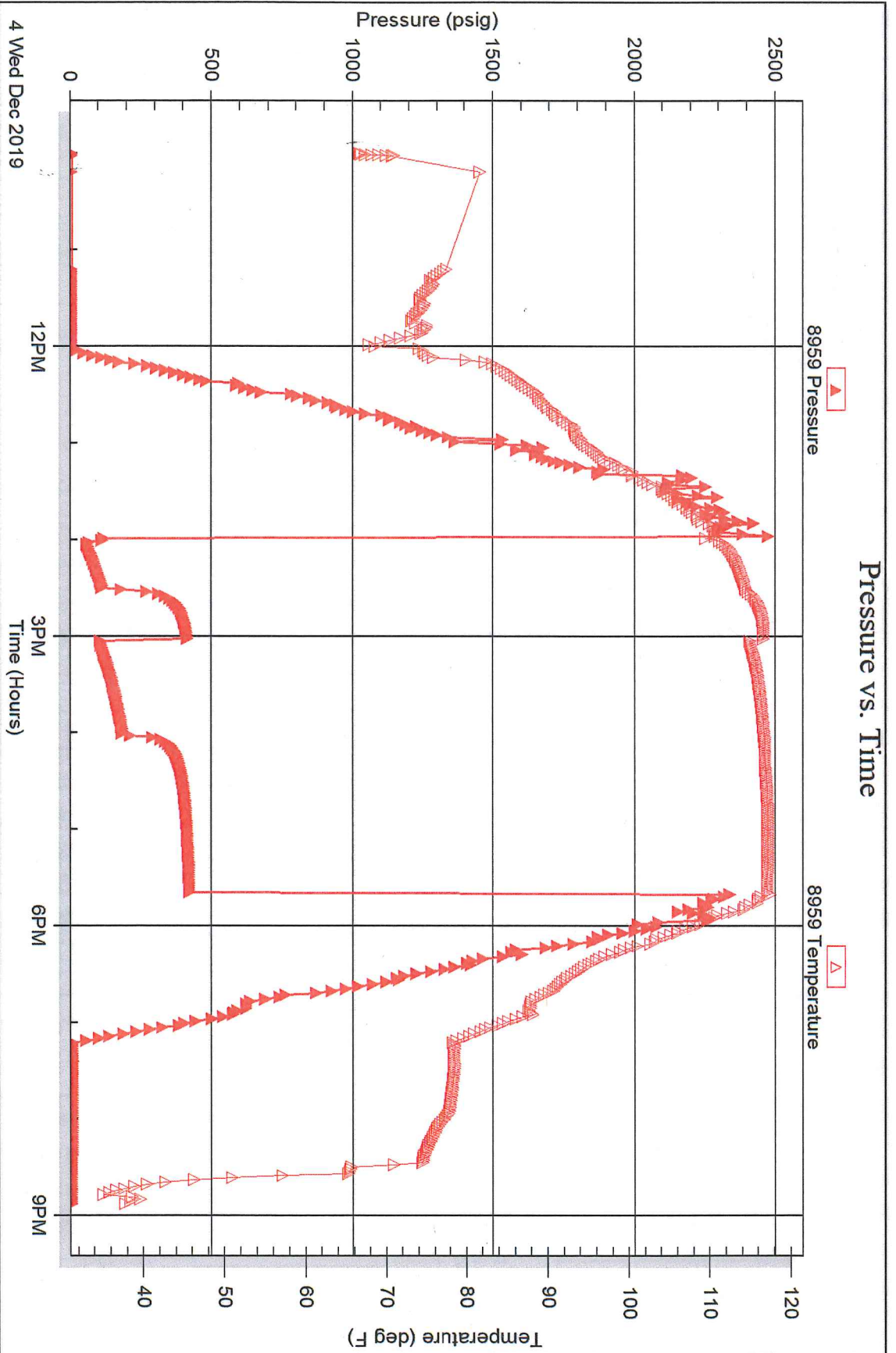
Serial #: 8959

Inside

Castillas Petroleum Corp.

Hanker #20-3A

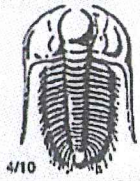
DST Test Number: 1



Triobite Testing, Inc

Ref. No: 66103

Printed: 2019.12.09 @ 09:32:37



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 66103

NO.

Well Name & No. Hawker H20-3A Test No. 1 Date 12-4-19
 Company Casillas Petroleum Corp. Elevation 2858 KB 2847 GL
 Address 348 Rd DD - Searles, KS. 67870
 Co. Rep / Geo. Troy Fowler Rig Duke #5
 Location: Sec. 20 Twp 36S. Rge. 31W. Co. Haskell State KS.

Interval Tested 4678 - 4740 Zone Tested Swope
 Anchor Length 62' Drill Pipe Run 4674 Mud Wt. 9.6
 Top Packer Depth 4673 Drill Collars Run — Vis S1
 Bottom Packer Depth 4678 (Shale) Wt. Pipe Run — WL 10.0
 Total Depth 4740 Chlorides 1850 ppm System LCM 4#
 Blow Description IF - B.O.B @ 1 min 20 secs (blow built to 421") on 1/8" choke G.T.S. @ 30 mins
ISE - S. blowback @ 1 min built to 1 1/2"
FF - B.O.R @ 1 min (blow built to 449 3/4") on 1/8" choke.
FSE - S. blowback ASHSE built to 6 3/4"

Rec	Feet of	%gas	%oil	%water	%mud
<u>400</u>	<u>Feet of G.M.C.W</u>	<u>24</u>	<u>46</u>	<u>30</u>	
<u>0</u>	<u>Feet of 4274' G.I.P.</u>				
	<u>Feet of</u>				
	<u>Feet of</u>				
	<u>Feet of</u>				

Rec Total 400 BHT 119 Gravity — API RW 435 @ 40.5 °F Chlorides 29,000 ppm

(A) Initial Hydrostatic <u>2380</u>	<input checked="" type="checkbox"/> Test <u>1300</u>	T-On Location <u>08:20</u>
(B) First Initial Flow <u>61</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>10:00</u>
(C) First Final Flow <u>113</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>24:00</u>
(D) Initial Shut-In <u>418</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>17:30</u>
(E) Second Initial Flow <u>105</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>20:53</u>
(F) Second Final Flow <u>192</u>	<input checked="" type="checkbox"/> Mileage <u>169 RT 92rt</u>	Comments <u>loaded 12/15 @ 22:00</u>
(G) Final Shut-In <u>425</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2304</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> EM Tool
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>1967</u>
	Sub Total <u>1967</u>	MP/DST Disc't

Approved By Troy Fowler Our Representative Matt Schmitt
 Trilobite Testing Inc. shall not be liable for damaged or any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



12/08

TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Gas Volume Report

Casillas Petroleum Corp.
Operator

Hamker #20-3A

Well Name and No.

1
DST No.

Min.	Ins. of Water PSIG	Orifice Size	CF/D	Ft. Min.	Ins. of Water PSIG	Orifice Size	CF/D	
				5	2.05	1/8"	6.157	
				10	4.37	1/8"	7.025	
				15	6.00	1/8"	7.635	
				20	7.55	1/8"	8.216	
				25	9.15	1/8"	8.814	
				30	10.07	1/8"	8.814 9.159	
				35	11.36	1/8"	9.642	
				40	12.50	1/8"	10.068	
				45	13.68	1/8"	10.510	
				50	17.71	1/8"	12.018	
				55	15.68	1/8"	11.258	
				60	16.55	1/8"	11.584	
			<i>As per test log</i>					

Remarks:

1