

HALLIBURTON ARRAY COMPENSATED TRUE RESISTIVITY LOG 1 INCH									
COMPANY WELL FIELD/BLOCK COUNTY STATE					MCWILLIAMS E-7 COWGILL FINNEY KANSAS				
Permanent Datum Log measured from Drilling measured from Date Run No. Depth - Driller Depth - Logger Bottom - Logged Interval Top - Logged Interval Casing - Driller Casing - Logger Bit Size Type Fluid in Hole Density PH Source of Sample Rm @ Meas. Temperature Rmf @ Meas. Temperature Rmc @ Meas. Temperature Source Rmf Rm @ BHT Time Since Circulation Time on Bottom Max. Rec. Temperature Equipment Recorded By Witnessed By					COMPANY WELL FIELD/BLOCK COUNTY STATE API No. Location SE NE NE SE 15055224840100 (SHL) 2145' FSL & 205' FEL Sect. 21 Twp. 24S Rge. 33W Elev. 2887.0 ft 12.0 ft above perm. Datum G.L. ONE 5269.0 ft 5268.0 ft 5259.00 ft 1706.00 ft 8.625 in 1706.0 ft 7.875 in Water Based Mud 9.3 ppq 11.00 pH MUD PIT 1.11 ohmm 0.94 ohmm 1.25 ohmm MEAS 0.65 ohmm 5.00 hr 08-Apr-18 16:00 132.00 degF 1214/7634 JORGE ORLANDO PEREZ MARTIN LANGE				
					Other Services: DSNT/SDLT MICROLOG BSAT ACRT				
					Elev.: K.B. D.F. G.L. 2899.0 ft 2899.0 ft 2887.0 ft				

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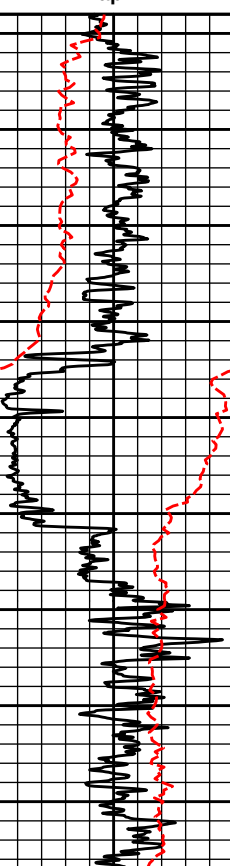
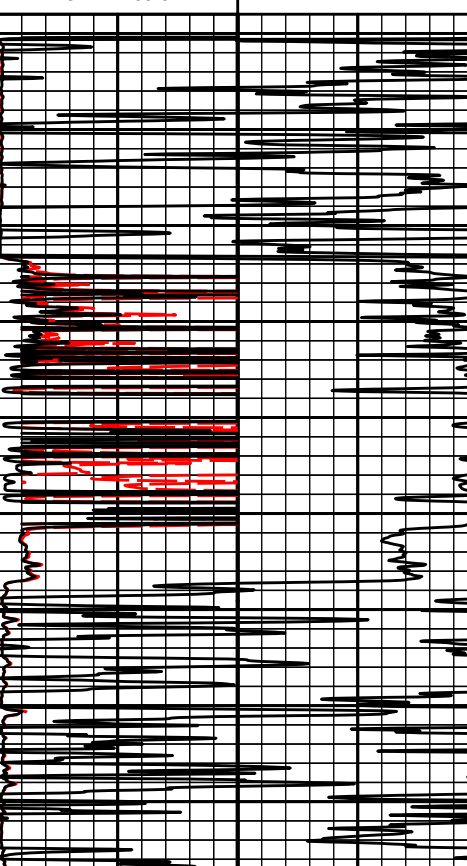
Service Ticket No.: 904762847				API No.: 15055224840100				PGM Version: WL INSITE R5.0.5 (Build 8)								
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE								RESISTIVITY SCALE CHANGES								
Date	Sample No.							Type Log	Depth		Scale Up Hole		Scale Down Hole			
Depth-Driller																
Type Fluid in Hole																
Density	Viscosity															
Ph	Fluid Loss															
Source of Sample							RESISTIVITY EQUIPMENT DATA									
Rm @ Meas. Temp			@		@			Run No.	Tool Type & No.		Pad Type		Tool Pos.		Other	
Rmf @ Meas. Temp.			@		@			ONE	ACRT		N/A		1.5 S.O.		N/A	
Rmc @ Meas. Temp.			@		@				I-11026095							
Source Rmf	Rmc								S-11005908							
Rm @ BHT			@		@											
Rmf @ BHT			@		@											
Rmc @ BHT			@		@											
EQUIPMENT DATA																
GAMMA				ACOUSTIC				DENSITY				NEUTRON				
Run No.		ONE		Run No.		ONE		Run No.		ONE		Run No.		ONE		
Serial No.		11958947		Serial No.		10747683		Serial No.		10951315		Serial No.		11055304		
Model No.		GTET		Model No.		BSAT		Model No.		SDLT		Model No.		DSNT		
Diameter		3.625"		No. of Cent.		2		Diameter		5.5"		Diameter		3.625"		
Detector Model No.		T-102		Spacing		EVEN		Log Type		GAM-GAM		Log Type		NEU-NEU		
Type		SCINT						Source Type		CS137		Source Type		AM241BE		
Length		8"		LSA [Y/N]				Serial No.		5168GW		Serial No.		DSN-424		
Distance to Source		N/A		FWDA [Y/N]				Strength		1.5 Ci		Strength		15.0 Ci		
LOGGING DATA																
GENERAL				GAMMA		ACOUSTIC			DENSITY			NEUTRON				
Run	Depth		Speed	Scale		Scale		Matrix	Scale		Matrix	Scale		Matrix		
No.	From	To	ft/min	L	R	L	R		L	R		L	R			
ONE	TD	CSG	REC	0	150	30	-10	47.6 uSec/ft	30	-10	2.71 gr/cc	30	-10	LIME		

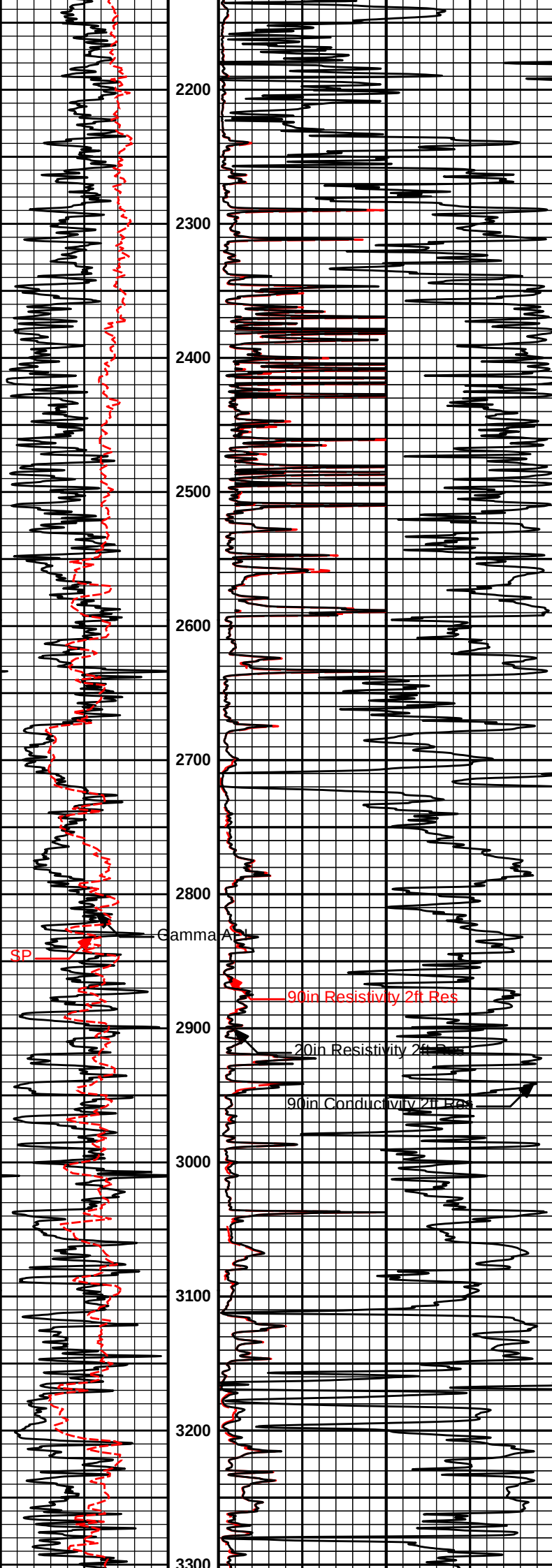
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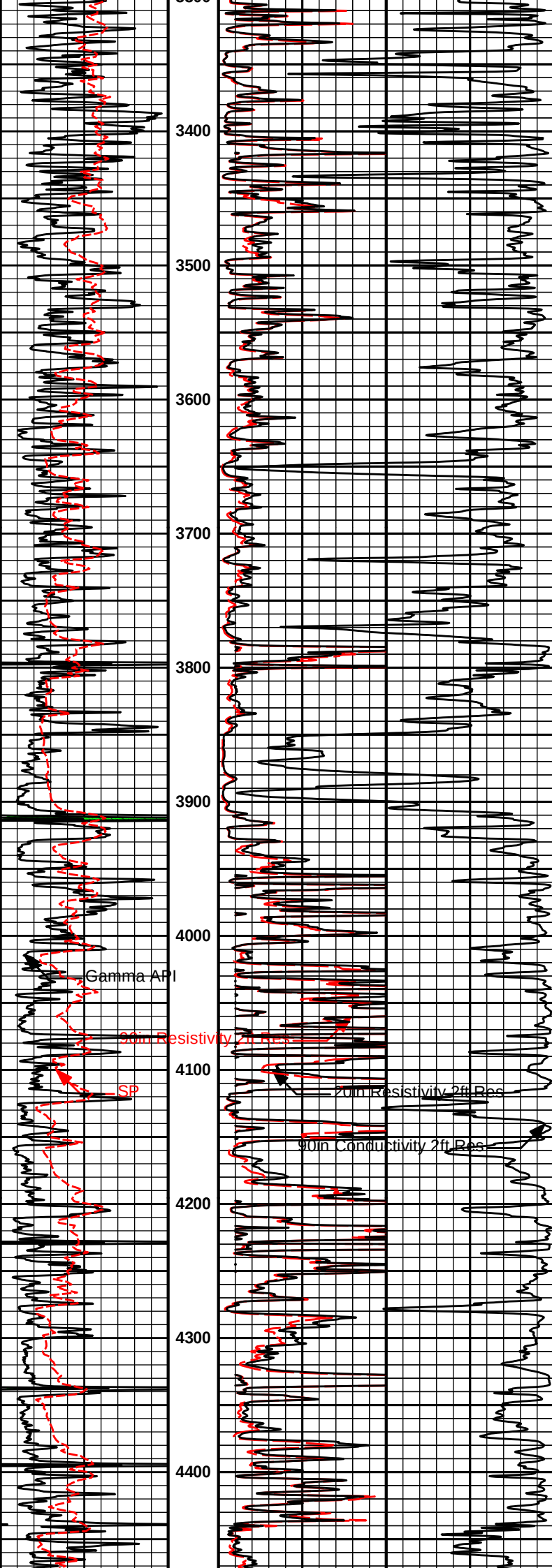
HALLIBURTON

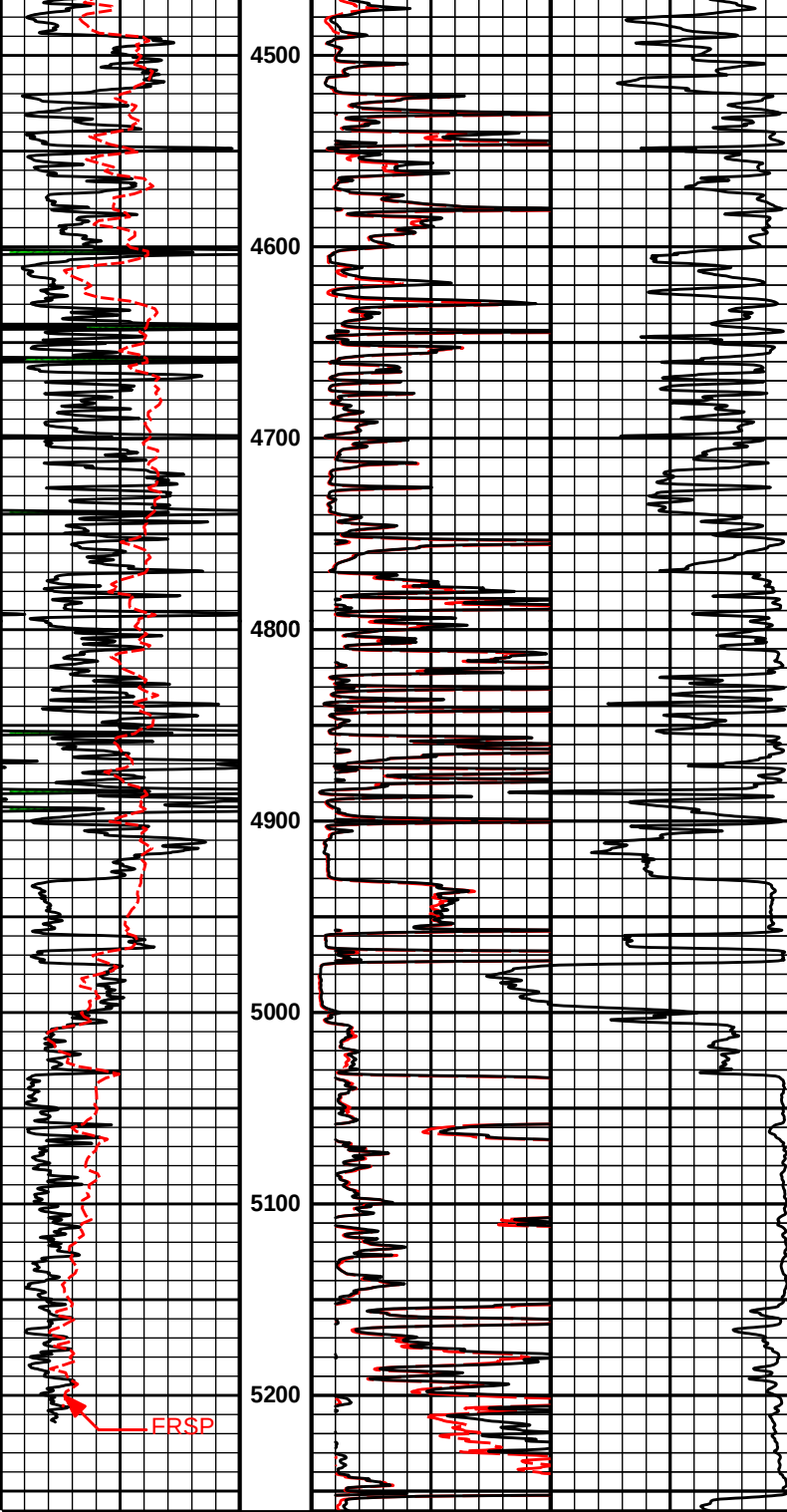
Plot Time: 08-Apr-18 17:25:48
 Plot Range: 1690 ft to 5260.75 ft
 Data: MCWILLIAMS_E7\Well Based\MAIN\
 Plot File: \\LOCAL-MCWILLIAMS_E7\Well Based\ACRT1\ACRT_1.lib

1 INCH MAIN LOG

		1000		90in Conductivity 2ft Res		0	
		mmho per metre					
SP		90in Resistivity 2ft Res					
- 20[+		0				50	
		ohm-metre					
Gamma API		MD		20in Resistivity 2ft Res			
0	150	1 : 1200	0			50	
api		ft		ohm-metre			
							
		1700					
		1800					
		1900					
		2000					
		2100					







0	Gamma API	150	MD	20in Resistivity 2ft Res	50
	api		1 : 1200	ohm-metre	
	SP		ft	90in Resistivity 2ft Res	50
	-]20[+			ohm-metre	0
				1000	90in Conductivity 2ft Res
					0
					mmho per metre

HALLIBURTON
Plot Time: 08-Apr-18 17:25:50
Plot Range: 1690 ft to 5260.75 ft
Data: MCWILLIAMS_E7\Well Based\MAIN\
Plot File: \\-LOCAL-\\MCWILLIAMS_E7\Well Based\ACRT1\ACRT_1_lib

1 INCH MAIN LOG

COMPANY MERIT ENERGY COMPANY

WELL MCWILLIAMS E-7

FIELD	COWGILL		
COUNTY	FINNEY	STATE	KANSAS
HALLIBURTON		ARRAY COMPENSATED TRUE RESISTIVITY LOG 1 INCH	