PLOTTED GEOLOGICAL LOG WellSight Systems

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

Well Name: Fisher #1 Location: 1464' FNL & 1089' FEL of Sec. 2-T27S-R12W Licence Number: API# 15-151-22503-00-00 Region: Pratt County, Kansas Spud Date: Sept. 27, 2019 Drilling Completed: Oct. 3, 2019 Surface Coordinates: Lat. 37.72870, Long. -98.59481 (NAD83) Bottom Hole Vertical Well Coordinates: Ground Elevation (ft): 1863 K.B. Elevation (ft): 1874 Logged Interval (ft): 1800 To: RTD Total Depth (ft): 4325 Formation: Kinderhook Type of Drilling Fluid: Chemical Mud by Mud-Co Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.con

OPERATOR

Company: Prater Oil & Gas Operations, Inc. Address: 10356 Bluestem Blvd. Pratt, Kansas 67124

GEOLOGIST

Name: Kent Roberts Company: Roberts Resources, Inc. Address: P.O. Box 75187 Wichita, KS 67275 Phone 316-215-1683

INFORMATION

DRILLING CONTRACTOR: Sterling Drilling Rig #4

MUD TYPE: Chemical by Mud-Co

DRILLING TIME KEPT FROM: 1800' to RTD

SAMPLES SAVED FROM: 3300' to RTD

SAMPLES EXAMINED FROM: 3300' to RTD

GEOLOGICAL SUPERVISION FROM: 2600' to RTD

ELECTRICAL SURVEYS: CNL/CDL, DIL by Pioneer

CASING DATA

CONDUCTOR CASING: None

SURFACE CASING: 10-3/4" Set @ 321' w/ 300 sx

PRODUCTION : None

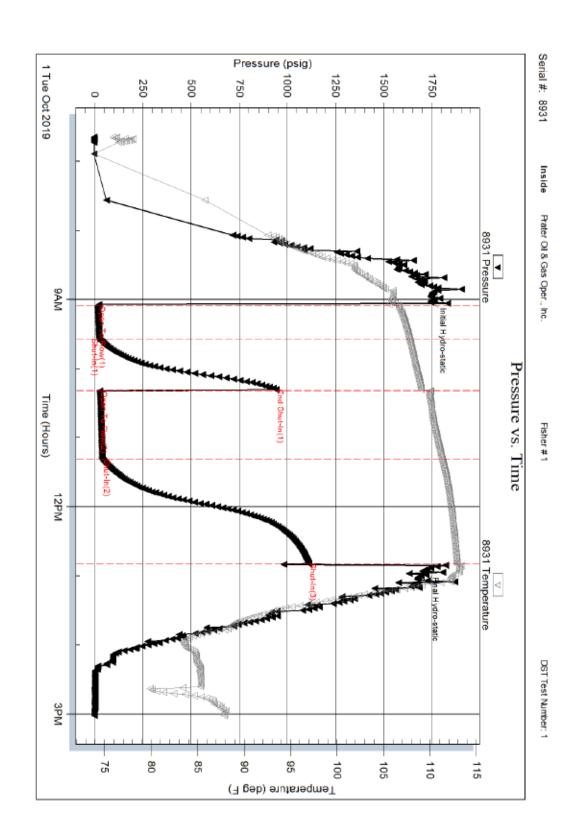
MODULUS DET	INC PERCE	-				Dec. 7		
MORNING DRIL					Fax to:	Ron Pra		
Sterling Drilling Company, Rig#4			1	e Geologist:			Fax# Email out	
Box 1006, Pratt, Kansas 67124-1006 Office Phone (820) 672-8608, Fax 672-8609		Ker	nt Roberts	WELL NAME LOCATION		Fisher #1 NW NW SE NE		
Rig #4 Phone Num			IN USE 1	Toolpusher			27s RNG 12w CO Pratt	
Rig Cellular	<u> </u>	-7 88-4192		anny Saloga	Prater Oll &			
Geologist Cellular		88-6896		c (820) 388-4183	10356 Bluest			
	(I	(Pratt, Kansa			
					ELEVATION	G.L.	1863 K.B. 1874 AP# 15-151-22503-00-00	
reserve pit. On 09	20/19 Kelly's Wa Sterling reporte	iter Well Svc drilled a	141' dee	p water well wit	th a 50' water lev	el. Wills	, 2019 Langfeld leveled location and dug earther et pump at 110". Mikes Septic for trash trailer, .80" rain 09/24. Delayed move one day to Friday	
Day 2 Cementing 10-3/4" o Ran 4.00 hours, dow	<u>Date:</u> asing at 325' at 7 n 20.00 hours - (:00 am. Drilled 325' I 11.50 Rig up, 2.50 M	m. Plan m Saturda n 24.00 ho buse/Rat l	nove/rig up and y Spud at ours. holes, 1.25 Cor	6:30pm 09/27/1	19. <u>s</u>	Location dry. Survey at 325'= 0 degrees, Location dry at repu o bit, 25 CTCH and jet cellar, 25 CTCH at 325',	
Mud Properties: Vis Surface Bit: HTC RF <u>Surface Casing:</u> Spud a	50, Wt. 9.6, LCM VRT 14-3/4" GTX at 6:30 pm on 09/	27/19. Drilled 14-3/4	000, RPM 43847, (3- " hole to 3	140-150, Pumj 15's), made 32 25'. Ran 7 join	p Pressure 3504 5' in 4.00 hours. ts new, 32.75#,	81 - 10-3/4" c	= Last 24-ROP- 14-3/4" asing.	
		LJ. Set at 321' KB. mented with 300 sks						
		Cementing ticket # 1				g uowi di	Cum Mud \$	NA
Day 3	•					aq cemer	tt at 317', Started losing returns at 450', then d	
Drilling at 1,100'. Dr Ran 8.00 hours, dow at 508' (250 Bbl), mi	n 16.00 hours (.5		t/Connect				Inface. raise LCM and OK. Location sull dry. ping (pulled 5 stands for Lost Circ), 2.75 Lost dro	ulation -
Mud Properties: Vis	. 34, Ŵt. 8.6, pH	7.0, LCM 10#; Wt. O						
Day 4		1378, (5-15's) , in at a					22	\$5,708
CFS at 2.660°. Drille	<u>Date:</u> d 1 550' in 24 bo		Monday		te (655' - 673')	NO NICK D	ump up to 60 spm, then 65 spm. Location stil	r ary.
		.25 Rig check, 4.25 C	onnection					
		7.0, Chi. 14,000, LCN				ressure 6	550, SPM 65.	
		1378, (5-15's) , in at					Last 24 <rop>7-7/8"= 90 Cum Mud \$</rop>	\$7,816
Day 5			Tuesday				97', DST #1 (3716' to 3740'), Survey at 3740' = 3	3/4 deq.
Tripping for DST #1			onnection				r pipe strap before DST #1. 1.25 CTCH at 3740', 1.50 Tripping, 1.50 25 stand	Short
		during rig check on e			2000, 1.00 01 3	al 3740,	1.20 Gronal Sr40, 1.30 mpping, 1.30 23 stand	Shore
Vud Properties: Ch	emical/Pac - Wt.	8.7, Vis. 56, LCM 5#,	WOB 14,	000, RPM 95, I		BOO, SPM	65.	
		1378, (5-15's) , in at					Last 24 <rop>7-7/8"= 85 Cum Mud \$</rop>	\$11,522
Day 6	Date:		Wednes				this am. Location wet and foggy at 7am.	
	n 15.75 hours (.5			, 4.50 Tripping	, 1.00 Handle ter		serve pit on 10/1/19 to the Studer disposal. D Pick up 13 jts of D.P., .50 Break circ at 2400' & 3	300',
							14,000, RPM 95, Pump Pressure 750, SPM 65.	
		1378, (5-15's) , in at 3					Last 24 <rop>7-7/8"= 78 Cum Mud \$</rop>	\$12,776
Day 7	Date:		Thursda	-			t 4194" = 3/4 deg. Cold front came through 50	deg!i
at 4194', .25 CTCH a	n 20.25 hours (.5 at 4325', 1.50 CT	0 Connections, 7.00 CH at 4194', 1.00 CT	CH at 419	1.00 Handle tes 4', 4.00 DST #	st tool, .25 Clean 2, 1.25 Short trip	floor, .50 17 stand	ttion wer and soft. 0.67" total rain.) Break circ at 2400'&3300', 1.50 CFS at 4160', 1. is to 3136'). 3 14,000, RPM 95, Pump Pressure 780, SPM 65.	25 CFS
		1378, (5-15's) , in at						\$13,969
Day 8	Date:	10/04/19	Friday	Survey	at 4325' = 1 deg	ree, RTD	=4325', LTD=4328' Plugged Well at 11:15pm	10/3/19
		4325'. Drilled 0' in 2					al during this well of 0.71".	
							loggers, 2.75 Logging, .50 Rig up lay down line, 1	1.25 CTC
		9.4, Vis. 59, PV/YP 1					n and prepare for move).	
Bit#1: 7-7/8" TXT, 1	TXT516, SN #S1	1378, (5-15's) , in at	325'm out	at 4325, drilled	4,000' In 52.25	0-	Last 24 <rop>7-7/8" 77 Final Cum Mud \$</rop>	\$14,546
	g will schedule	the water well to be	plugged					
Plugging Data: Plugge	d well on 10/03/	19. Plugged with hea	wy murit th	om 4325' /RTD) to 690' where t	he first o	uo was set	
		and plug set 360' with						
Rathol	e with 30 sacks a	nd mousehole with 2	0 sacks. 3	200 Total sacks	s used containing	q 60/40 P	oz, 4%Gel.	
		1 at 11:15pm on 10/03						
Pluqqi	ng orders receive	d on 10/03/19 at 1:30	ipm by Ke	riny Sullvan. F	reported to KCC	(Heath V	vaisn) of 10/07/19	

		TOFO	ODT						
RILOBITE	DRILL STEM TEST REPORT								
TESTING, INC	Prater Oil & Gas Oper., Inc.		2-27s-12w Pratt Co., Ks.						
	10356 Bluestem BLVD Pratt, Ks. 67124		Fisl Job	1946 DST#:1					
	ATTN: Kent Roberts		Test	019.10.01 @ 06:38:43					
GENERAL INFORMATION:									
Formation: LKC " B " Zone Deviated: No Whipstock: Time Tool Opened: 09:05:28 Time Test Ended: 15:01:43	ft (KB)		Test	er: I	Conventional Bottom Hole (Initial) Matt Smith 88				
Interval: 3716.00 ft (KB) To 37 Total Depth: 3740.00 ft (KB) (T) 10 Hole Diameter: 7.88 inches Hole	/D)		Refe		evations: 1874.00 ft (KB) 1863.00 ft (CF) to GR/CF: 11.00 ft				
Start Date: 2019.10.01 Start Time: 06:38:48 TEST COMMENT: IF: Strong Blow. ISI: No Blow.	 3717.00 ft (KB) End Date: End Time: B.O.B. in 28 mins. Built to 12.65". B.O.B. in 29 mins. Built to 16.41". 	2019.10.01 15:01:42	Time On E	ol: Btm: :	8000.00 psig 2019.10.01 2019.10.01 @ 09:00:58 2019.10.01 @ 12:54:58				
Pressare vs. T			PF	RESSUE	RE SUMMARY				
		Time (Min.) 5 33 77 79 138 229 234	Pressure (psig) 1746.49 16.96 23.49 941.57	Temp (deg F) 105.89 106.62 107.78 109.06 110.07 111.30 112.92	Annotation Initial Hydro-static Open To Flow (1) Shut-In(1) End Shut-In(1) Open To Flow (2) Shut-In(2) Shut-In(3) Final Hydro-static				
Recovery	Gas Rates								
Length (t) Description 118.00 GOWCM 15% a 25% o 5%	Volume (bbi)			Choke (I	nches) Pressure (psig) Gas Rate (Mct	9 d)			
118.00 GOWCM 15%g 25%o 5% 3.00 OCM 80%o 20%m	w 55%m 0.90 0.02								
0.00 314' G.LP. 100%g	0.00								
Trilobite Testing, Inc	Ref. No: 64946	1		Printed:	2019.10.01 @ 15:32:44				

Printed: 2019.10.01 @ 15:32:45

Ref. No: 64946

Trilobite Testing, Inc

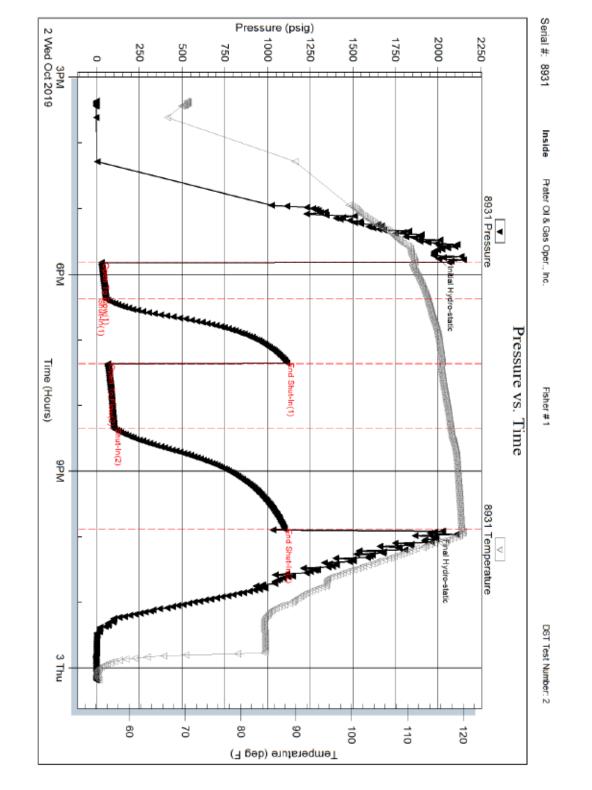


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	DRILL STEM TEST REPORT								
TESTING, INC	Prater Oil & Gas Oper., Inc.	2-27s-12w Pratt Co., Ks.							
ESTING, INC.	10356 Bluestem BLVD Pratt, Ks. 67124	Fishe Job Tic	# 2						
	ATTN: Kent Roberts		Test St						
GENERAL INFORMATION:									
Formation: Mississippi Chert Deviated: No Whipstock: Time Tool Opened: 17:49:26 Time Test Ended: 00:10:56		Test Ty Tester: Unit No	N	conventional Bottom latt Smith 8	Hole (Reset)				
Interval: 4115.00 ft (KB) To 41 Total Depth: 4194.00 ft (KB) (TV Hole Diameter: 7.88 inches Hole	(D)	Reference Bevations: 1874.00 ft (KB) 1863.00 ft (CF) KB to GR/CF: 11.00 ft							
Serial #: 8931 Inside Press@RunDepth: 100.90 psig Start Date: 2019.10.02 Start Time: 15:21:46 TEST COMMENT: IF: Strong Blow . ISt No Blow . FF: Strong Blow . FS: No Blow . FS: No Blow .	End Date: End Time:	2019.10.03 00:10:56	Time On Btm	τ 2	8000. 2019.10. 019.10.02 @ 17:45 019.10.02 @ 21:55:	41			
Pressare vs. T			PRE	SSUR	E SUMMARY				
	ATT Departure Tryperture Try	Time (Min.) 0 4 37 95 97 156 248 250	(psig) (d 2003.75 1 27.67 1 53.33 1 1114.61 1 62.88 1 100.90 1 1102.61 1	10.92 13.59 16.26 16.03 17.78 19.74	Annotation Initial Hydro-static Open To Flow (1) Shut-In(1) End Shut-In(1) Open To Flow (2) Shut-In(2) End Shut-In(2) Final Hydro-static				
Recovery Length (t) Description Volume (bbi)			Gas Rates Choke (Inches) Pressure (psig) Gas Rate (Mcfid)						
170.00 GOSM 5%g 95%m	1.29		I						
*Recovery from multiple tests Trilobite Testing, Inc	Ref. No: 64947		F	rinted: 2	2019.10.03 @ 06:07	:37			

Printed: 2019.10.03 @ 06:07:37

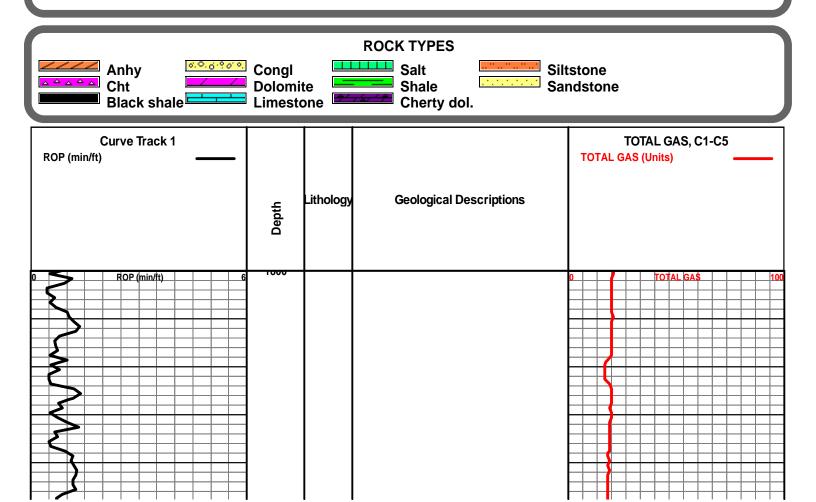
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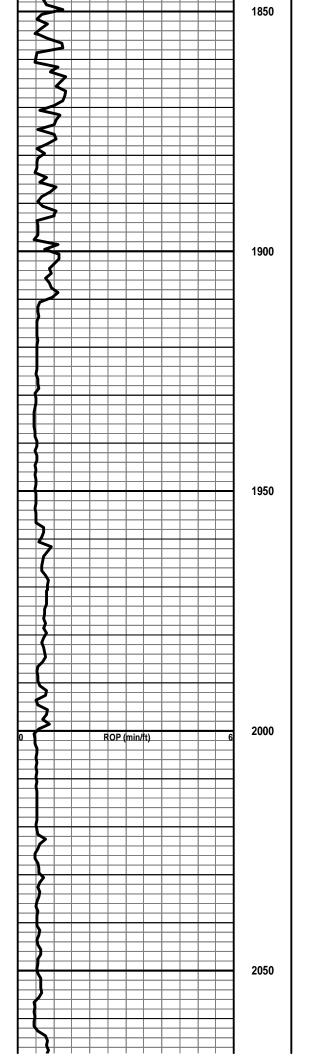


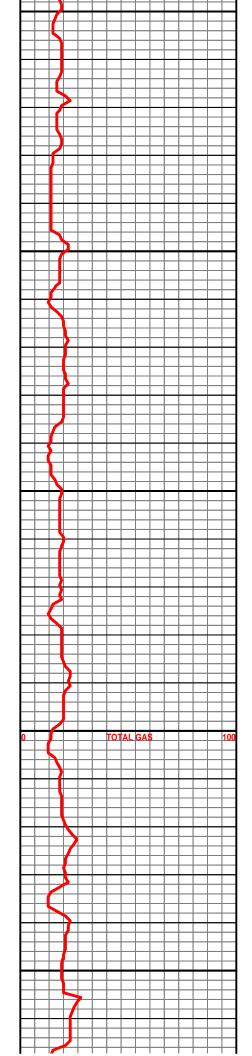


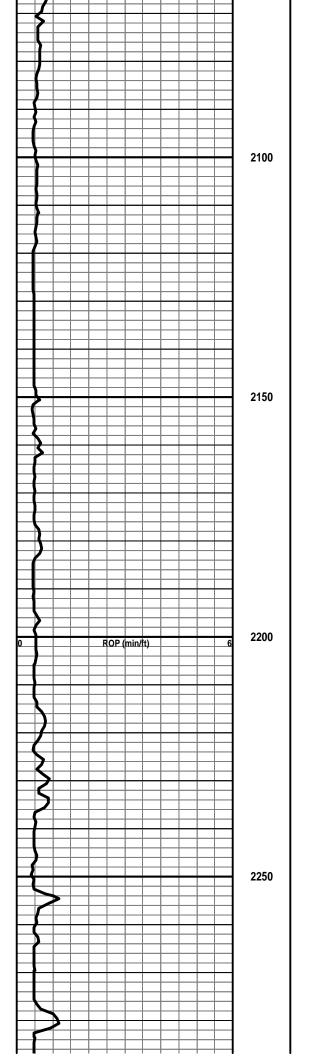
Prater Oil and Gas Fisher #1

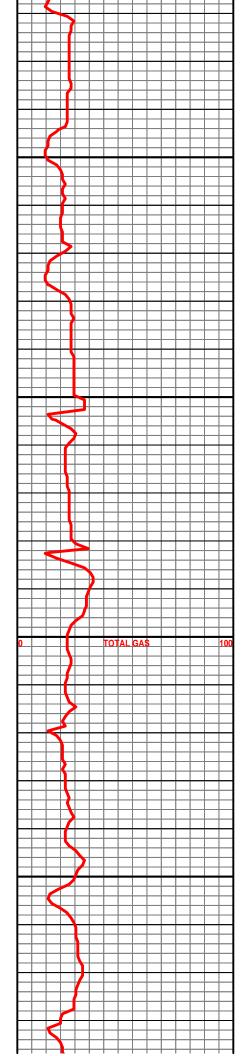
Formation	Sample Top	Datum	Log Top	Datum
Anhydrite	655	1219	655	1219
Base Anhydrite	673	1201	673	1201
Topeka	3159	-1285	3160	-1286
Heebner Shale	3492	-1618	3495	-1621
Douglas Shale	3530	-1656	3532	-1658
Brown Lime	3678	-1804	3678	-1804
Lansing	3690	-1816	3691	-1817
Lansing Drum	3860	-1986	3862	-1988
Stark Shale	3986	-2112	3988	-2114
Mississippi Chert	4126	-2252	4148	-2274
Mississippi Lime	4188	-2314	4193	-2319
Kinderhook Shale	4296	-2422	4298	-2424
RTD	4325	-2451	4328	-2454

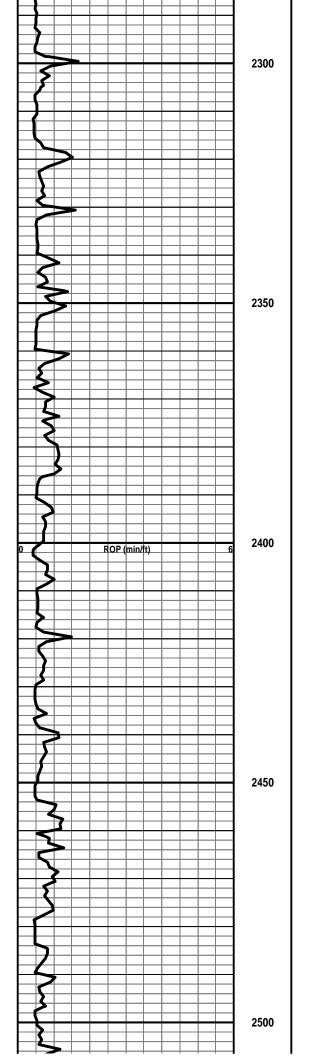


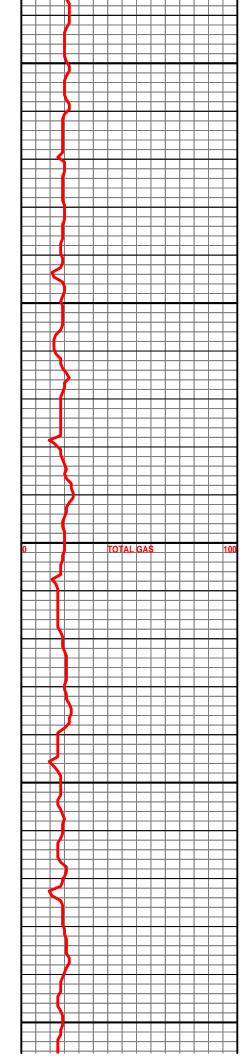


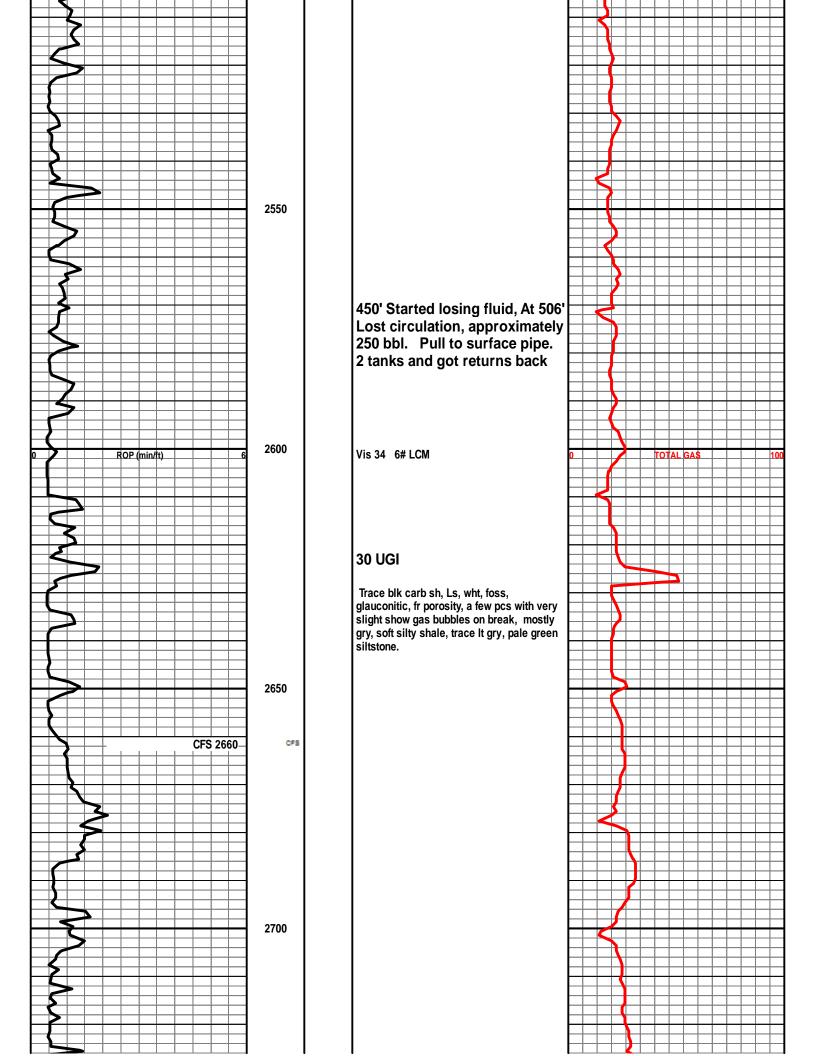


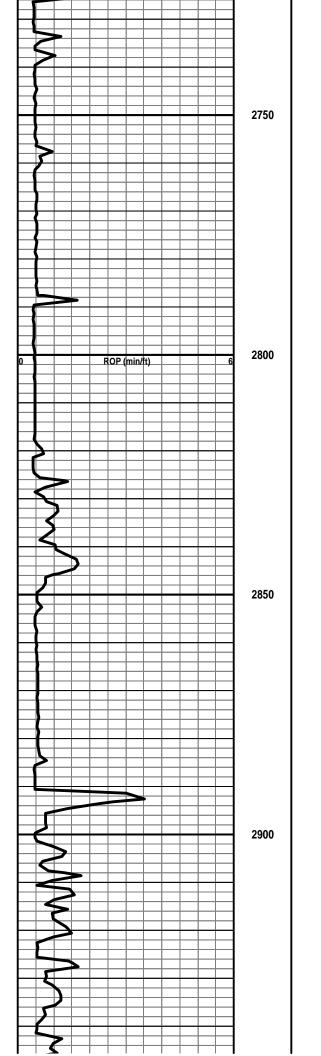


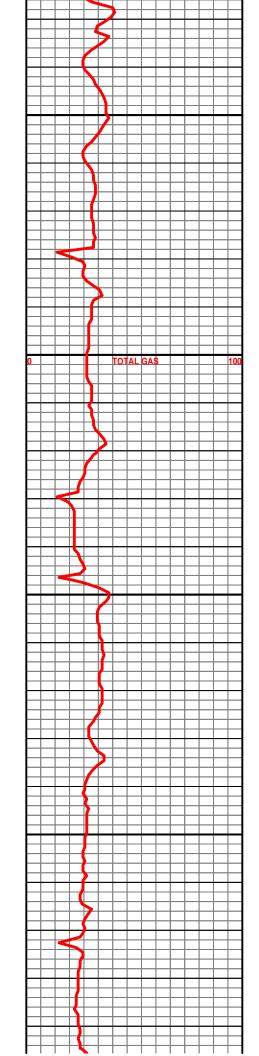


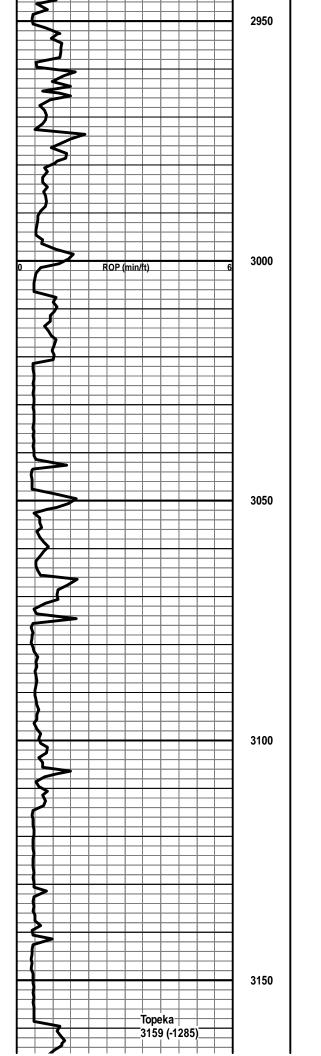


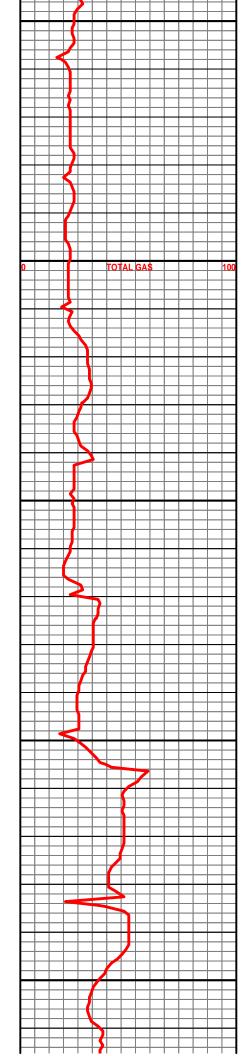


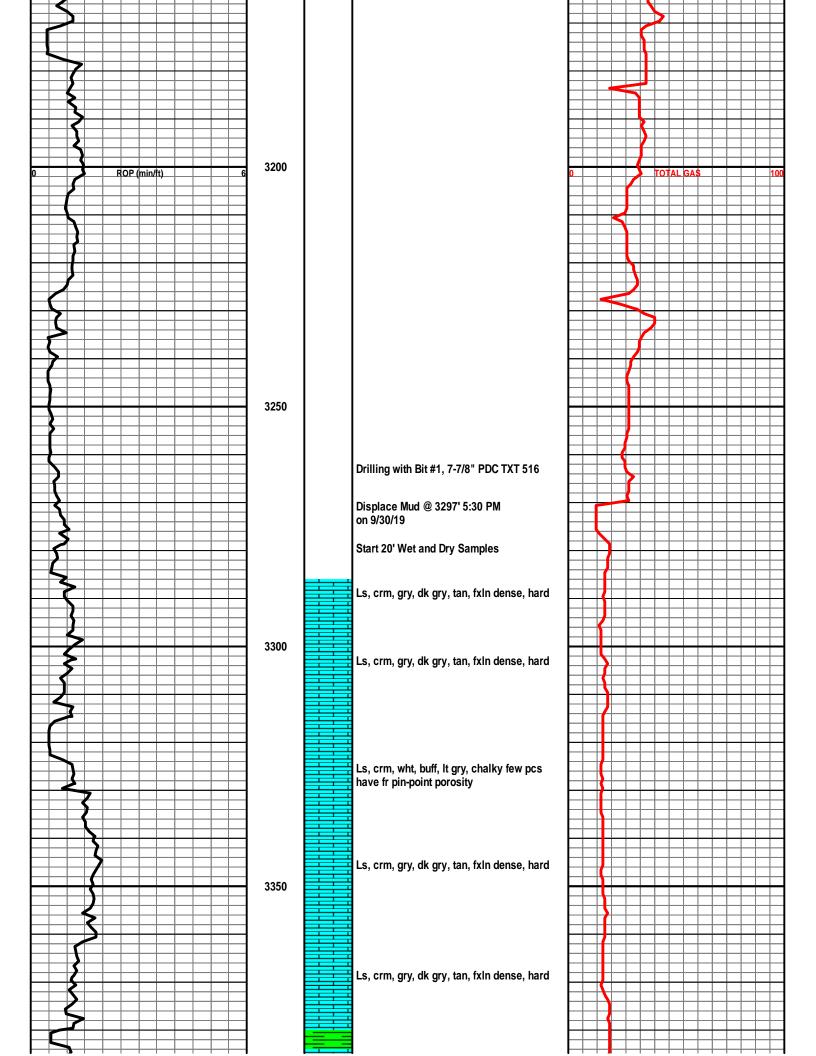


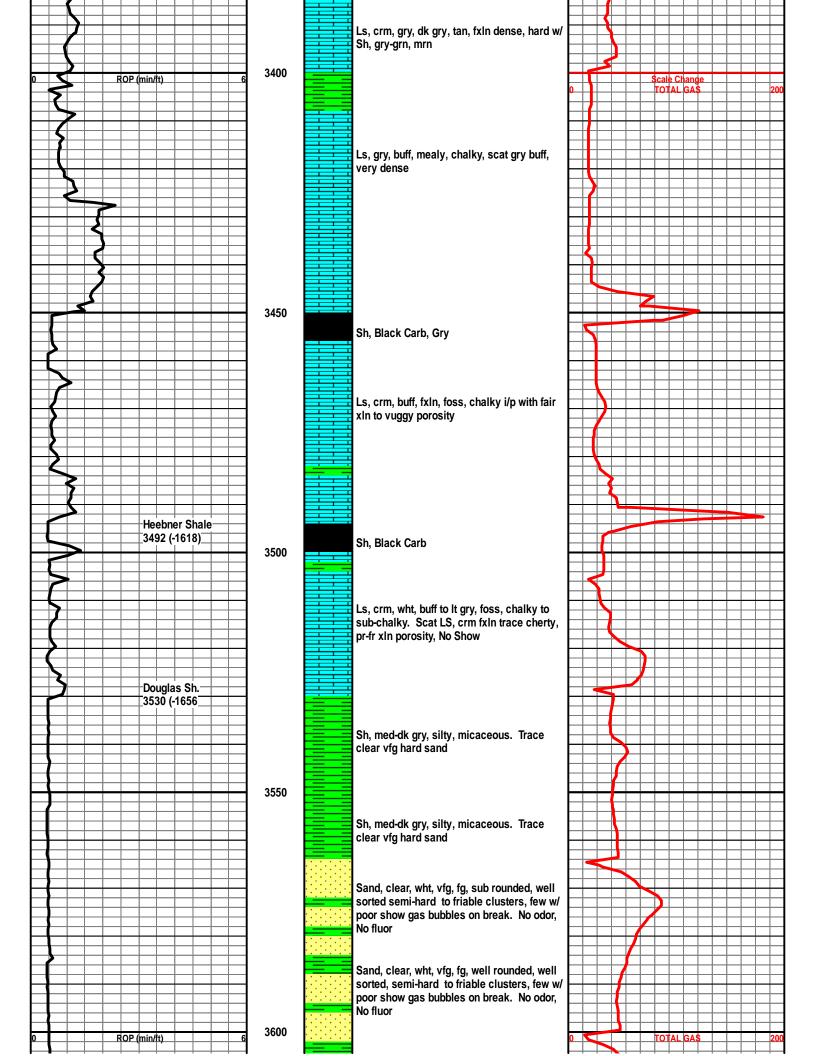


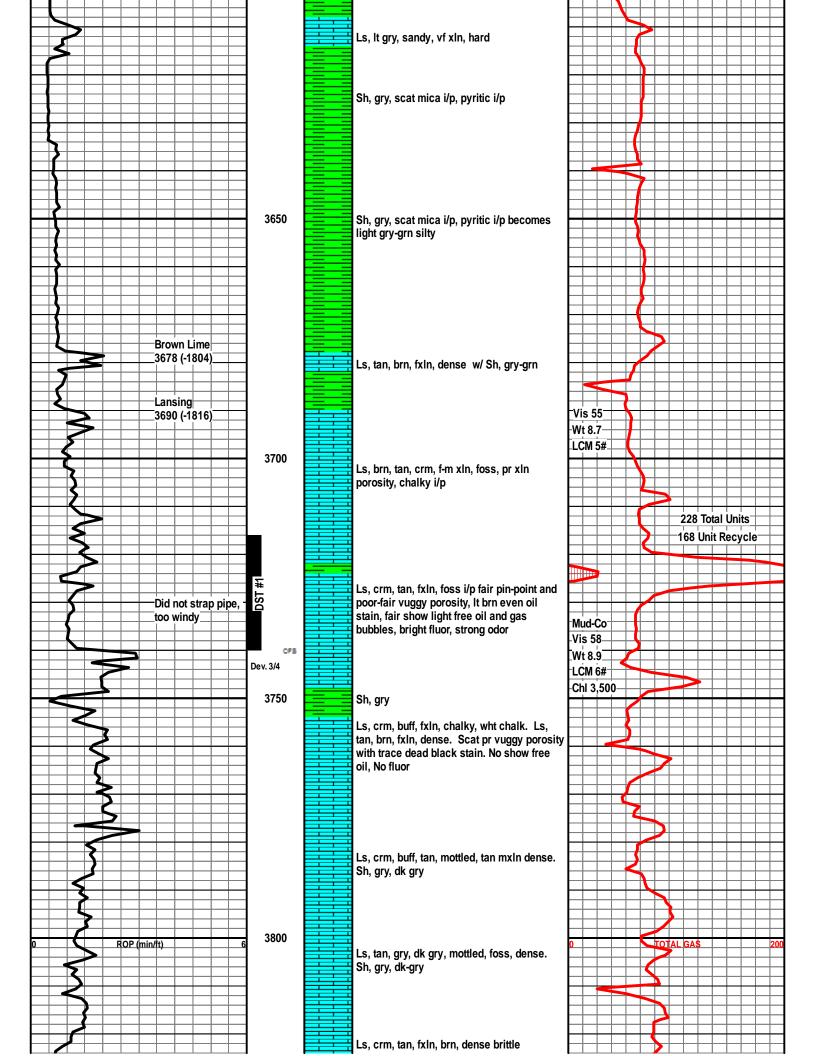


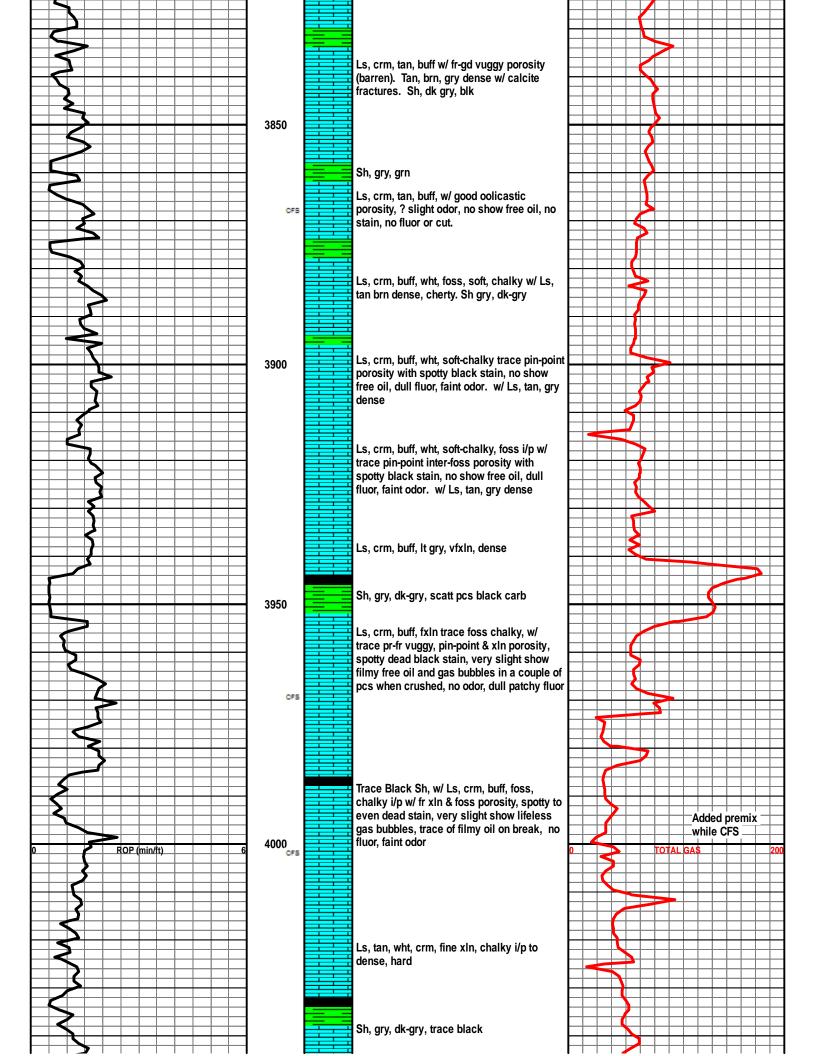


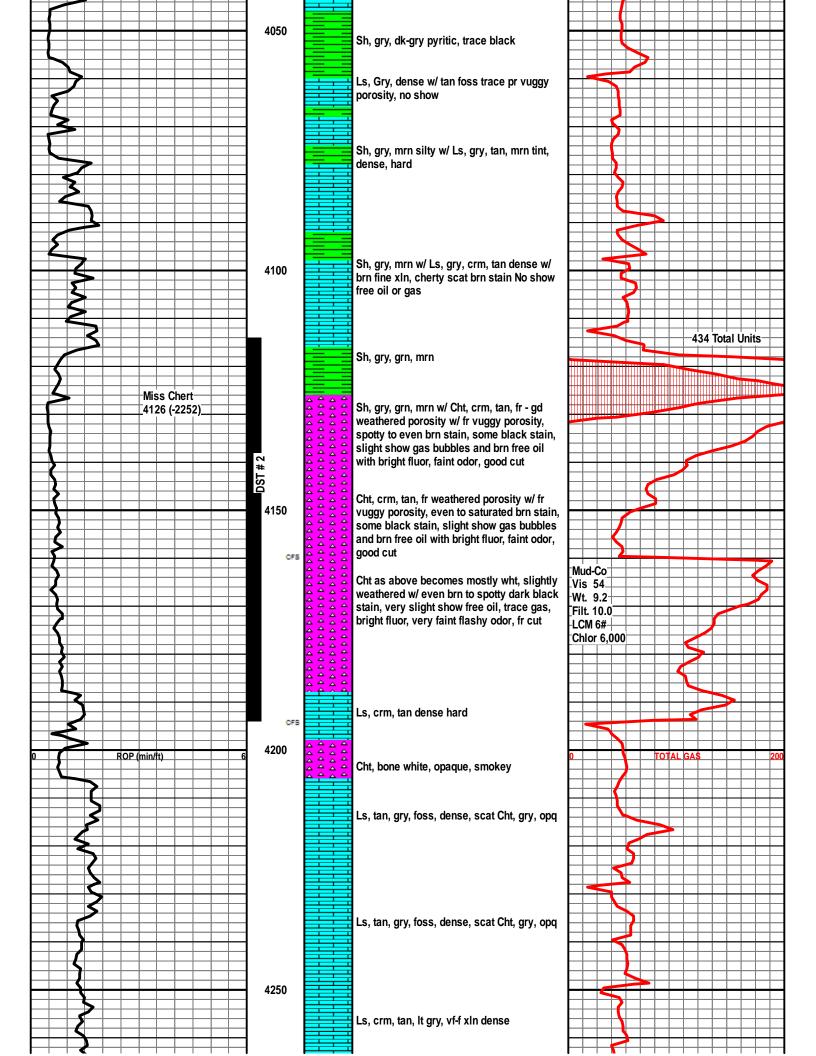












Kinderhook Sh 4296 (-2422) RTD @ 4325	4300	Ls, crm, tan, It gry, vf-f xIn dense Ls, gry, dk gry, dense Sh, It-gry silty, dark gry Sh, gry silty, dark gry, trace mrn with pyrite inclusions		V F L R	Mud-C /is 59 Wt 9.4 Filt 8.4 _CM 5	9 8 # 325 9 AM		
	4350							