Confidentiality Requested: Yes No

KANSAS CORPORATION COMMISSION **OIL & GAS CONSERVATION DIVISION**

1215227

Form ACO-1 August 2013 Form must be Typed Form must be Signed All blanks must be Filled

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #	API No. 15
Name:	Spot Description:
Address 1:	
Address 2:	Feet from North / South Line of Section
City: State: Zip:+	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxxx) (e.gxxx.xxxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
	Producing Formation:
	Elevation: Ground: Kelly Bushing:
Gas D&A ENHR SIGW	Total Vertical Depth: Plug Back Total Depth:
OG GSW Temp. Abd. CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used? Yes No
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet
Operator:	If Alternate II completion, cement circulated from:
Well Name:	feet depth to:
Original Comp. Date: Original Total Depth:	
Deepening Re-perf. Conv. to ENHR Conv. to SWD	
Plug Back Conv. to GSW Conv. to Producer	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
	Chloride content: ppm Fluid volume: bbls
Commingled Permit #: Dual Completion Permit #:	Dewatering method used:
SWD Permit #:	Location of fluid disposal if hauled offsite:
ENHR Permit #:	Location of huld disposal in hadred offsite.
GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	QuarterSecTwpS. R East West
Recompletion Date Recompletion Date	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						
Geologist Report Received						
UIC Distribution						
ALT I II III Approved by: Date:						

	Page Two	1215227
Operator Name:	Lease Name:	Well #:
Sec TwpS. R East West	County:	
INCTRUCTIONS. Chow important tang of formations ponetrated	Datail all aaroo Bapart all	final appias of drill stamp tools giving interval toolad, time tool

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 (Attach Additional Sho	eets)	Yes No		-	on (Top), Depth an		Sample
Samples Sent to Geolog	gical Survey	Yes No	Nam	Ð		Тор	Datum
Cores Taken Electric Log Run		Yes No					
List All E. Logs Run:							
		CASING Report all strings set-c	RECORD Ne		on, 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 / SQU	EEZE RECORD			
Purpose: Perforate	Depth Top Bottom	Type of Cement	# Sacks Used		Type and P	ercent Additives	
Desteat Casing							

Perforate Protect Casing Plug Back TD Plug Off Zone	Top Bottom				
Did you perform a hydraulic	fracturing treatment	on this well?	Yes	No	(If No, skip questions 2 and 3)

Did you perform a hydraulic fracturing treatment on this well?	Yes
Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?	Yes
Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?	Yes

No	(If No, skip questions 2 and 3)
No	(If No, skip question 3)

No

(If No, fill out Page Three of the ACO-1)

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated			Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)			Depth			
TUBING RECORD:	Siz	ze:	Set At:		Packe	r At:	Liner R		No	
Date of First, Resumed	Product	ion, SWD or ENHI	٦.	Producing Me	ethod:	ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas	Mcf	Wate	er	Bbls.	Gas-Oil Ratio	Gravity
DISPOSITI	ON OF (GAS:			METHOD	OF COMPLE	TION		PRODUCTION IN	TERVAL ·
Vented Solo	l 🗌	Used on Lease		Open Hole	Perf.	Unally (Submit)	Comp.	Commingled (Submit ACO-4)		
(If vented, Su	bmit ACC)-18.)		Other (Specify)						

Form	ACO1 - Well Completion
Operator	Prater Oil & Gas Operations, Inc.
Well Name	Herndon 5-36
Doc ID	1215227

Casing

	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement		Type and Percent Additives
Surface	12.25	8.6250	24	270		300	
Production	7.8750	5.50	15.5	4490		125	

CELLS WITH BLUE BACKGROUND	ARE THE ONLY CELLS TO BE EL	DITED
Company Name:	Prater Oil & Gas Operations	
Fracture Start Date/Time:	7/14/14 10:18	
Fracture End Date/Time:	7/14/14 0:18	
State:	Kansas	
County:	Barber	
Legal Description:	36-308-12W	
API Number:	15-007-24176-0000	(e.g. XX-XXX-XXXXX-0000)
Well Name:	Herndon 5-36	
Longitude:	-98.5877125	
Latitude:	37.3854743	
Total Clean Fluid Volume* (gal):	378,588	

Additive	Specific Gravity	Additive Quantity	Mass (lbs)
Water	1.00	378,588	3,159,317
Sand (Proppant)	2.65	177,200	177,200
Plexcide B7	1.33	20	222
Plexcide B7	1.33	20	222
Plexgel Breaker XPA	1.03	72	619
Plexset 730	0.90	100	751
Plexset 730	0.90	100	751
Plexsurf 580 ME	0.95	93	737
Plexsurf 580 ME	0.95	93	737
Plexslick 957	1.11	259	2,399
Claymax	1.09	185	1,683
			Total Slurry Mass (Lbs)
			3,344,638

Ingredients Section	:						3,344,638	
Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Mass per Component (LBS)	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	Operator	Carrier/Base Fluid	Water	7732-18-5	100.00%	3,159,317	94.45915%	
Sand (Proppant)	Uniman	Proppant	Crystalline Silica in the form of Quartz	14808-60-7	100.00%	177,200	5.29803%	
Plexcide B7	Chemplex	Biocide	Sodium Hydroxide	1310-73-2	5.00%	11	0.00033%	
Plexcide B7	Chemplex	Biocide	Alkaline Bromide Salts	NA	0.00%	0	0.00000%	
Plexgel Breaker XPA	Chemplex	Slickwater Breaker	Hydrogen Peroxide	7722-84-1	7.00%	43	0.00130%	
Plexset 730	Chemplex	Activator	Methanol	67-56-1	50.00%	376	0.01123%	
Plexset 730	Chemplex	Activator	Alcohol Ethoxylates	Mixture	60.00%	451	0.01347%	
Plexsurf 580 ME	Chemplex	Product Stabalizer	Methyl Alcohol	67-56-1	10.00%	74	0.00220%	
Plexsurf 580 ME	Chemplex	Product Stabalizer	2-Butoxyethanol	111-76-2	50.00%	369	0.01102%	
Plexslick 957	Chemplex	Friction Reducer	Petroleum Hydrotreated Light Distillate	64742-47-8	25.00%	600	0.01793%	
Claymax	Chemplex	Clay Stabilizer	No hazardous ingredient	NA	0.00%	0	0.00000%	
								Non-MSDS Component
								Non-MSDS Component
								Non-MSDS Component
								Non-MSDS Component
								Non-MSDS Component
								Non-MSDS Component

	PAGE	CUST NO	INVOICE DATE
~	1 of 1	1C 328	10/29/2013
		INVOICE NUM	BER
(B) BASIC		1718 - 913235	00
Pratt (620) 672-1201	J LEASE	MARINE MOLINCON	4-36
B PRATER OIL & GAS	BCOUNTY	Barber	
I 1303 N MAIN ST	S STATE	KS	
L PRATT	JOB DE	SCRIPTION Cement-New	Well Casing/Pi
KS US 67124	E JOB CO	NTACT	
O ATTN:			

JOB #	EQUIPMENT #	PURCHASE ORDER	NO.		TERMS	DUE DATE
40656148	20920				Net - 30 days	11/28/2013
For Service Date	s: 10/25/2013 to 10/2	QT: 5/2013	2	U of M	UNIT PRICE	INVOICE AMOUNT
0040656148						
Cement 8 5/8 Surf	ent-New Well Casing/Pi 10/ ace	25/2013				
60/40 POZ	(1) And (2)	Ref. T. And P. C. Martin, "A second strain and the second strai	300.00	EA	9.00	
Celloflake			76.00	EA	2.77	
Calcium Chloride			774.00		0.79	
Cement Gel			516.00		0.19	
"Wooden Cmt Plug	, 8 5/8"""		1.00		119.99	
"Unit Mileage Chg	(PU, cars one way)"		25.00		3.19	
Heavy Equipment N			50.00		5.25	
	el. Chgs., per ton mil		323.00		1.20	
Depth Charge; 0-50			1.00		749.93	
Blending & Mixing			300.00	1.1112.0012	131.24	
"Service Superviso	r, first 8 hrs on loc.	0 0 1 3 0 1	1.00	EA	131.2	+ 101
					the second state	
	· · · · · · · · · · · · · · · · · · ·					
		A			F	
					1.000 Str.	
				i par		
LACINO NOS		O OTHER CORRESPONDED	JCF T	0.		
PLEASE REMIT				0:	SUB TOTAL	5,662.
BASIC ENERGY	SERVICES, LP BAS	C ENERGY SERVICES, CHERRY ST, STE 210	P		TAX	258.
PO BOX 84190 DALLAS, TX 75		WORTH, TX 76102	, ,	TN	VOICE TOTAL	5,921.

8. S. S. S.

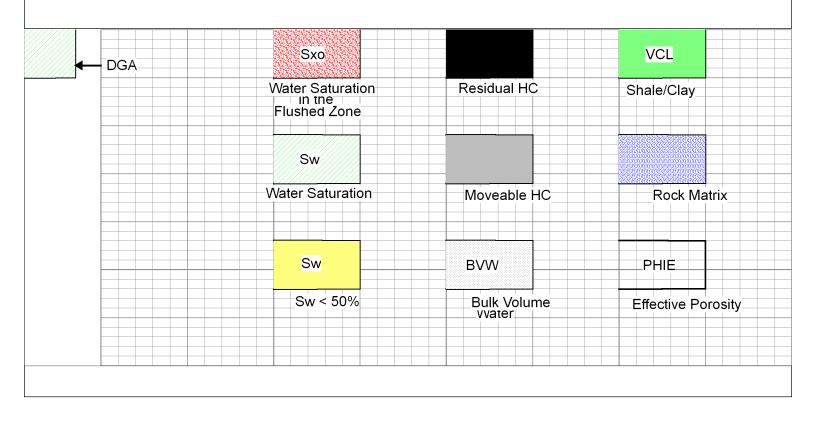
	PAGE	CUIST NO	INVOICE DATE
	1 of 1	1005628	11/01/2013
(B) BASIC		INVOICE NUMB	ER
ENERGY SERVICES		1718 - 9132769	12
Pratt (620) 672-1201 672 B PRATER OIL & GAS I I 1303 N MAIN ST I L PRATT I KS US 67124 I O ATTN: I	LOCATI COUNTY STATE	ON Barber KS SCRIPTION Cement-New We	-36 ell Casing/Pi

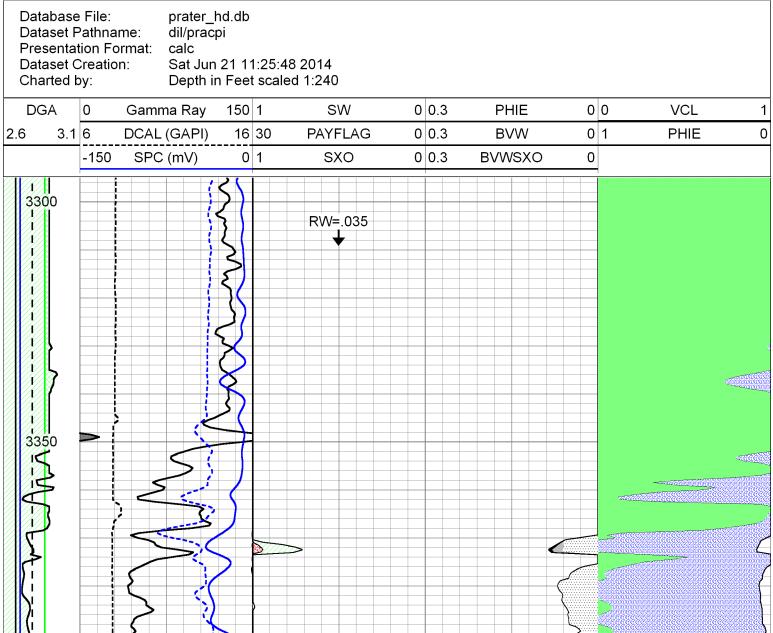
<i>јов #</i>	EQUIPMENT #	PURCHASE O	RDER NO.		TERMS	DUE DATE
40657987	27463				Net - 30 days	12/01/2013
			QTY	U of M	UNIT PRICE	INVOICE AMOUNT
For Service Dates	: 10/30/2013 to 10	0/30/2013		11		
0040657987						
171809095A Ceme Cement 5 1/2" Long	nt-New Well Casing/Pi 1 <mark>stri</mark> ng	0/30/2013				
				142		
AA2 Cement			225.00		12.75	
Celloflake			57.00	EA	2.78	
C-41P			43.00		3.00	
Salt			1,024.00		0.38	
Cement Friction Red	ucer		64.00	- UU	4.50	
C-44 FLA-322			212.00		3.86	
Mud Flush			106.00		5.63	
Gilsonite			500.00 1,125.00		0.65	
Claymax KCL Substi	tuto		1,125.00		0.50	
"Top Rubber Cmt Plu		1	1.00		26.25	
"Guide Shoe - Regula			1.00		78.75 187.50	
"Turbolizer, 5 1/2""		a ser a de la ser a s	9.00	EA	82.50	
Fiapper Type Insrt Fl			1.00		161.25	
"Unit Mileage Chg (F			25.00	1	3.19	
Heavy Equipment Mi			50.00		5.25	
"Proppant & Bulk De	I. Chgs., per ton mil		265.00	0	1.20	
Depth Charge, 4001			1.00	EA	1,890.00	
Blending & Mixing Se	ervice Charge		225.00	BAG	1.05	
Plug Container Util. (Chg.		1.00	EA	187.50	
"Service Supervisor,	first 8 hrs on loc.		1.00	EA	131.25	
-k = 1						
9) H 2•, 1						
PLEASE REMIT	TO: SE	ND OTHER CORRESPO	NDENCE TO):		
BASIC ENERGY	SERVICES LP BA	SIC ENERGY SERVIC	ES LP		SUB TOTAL	10,432.28
PO BOX 841903	80	1 CHERRY ST, STE	2100		TAX	440.23
DALLAS, TX 752		RT WORTH, TX 7610		INVO	DICE TOTAL	10,872.51

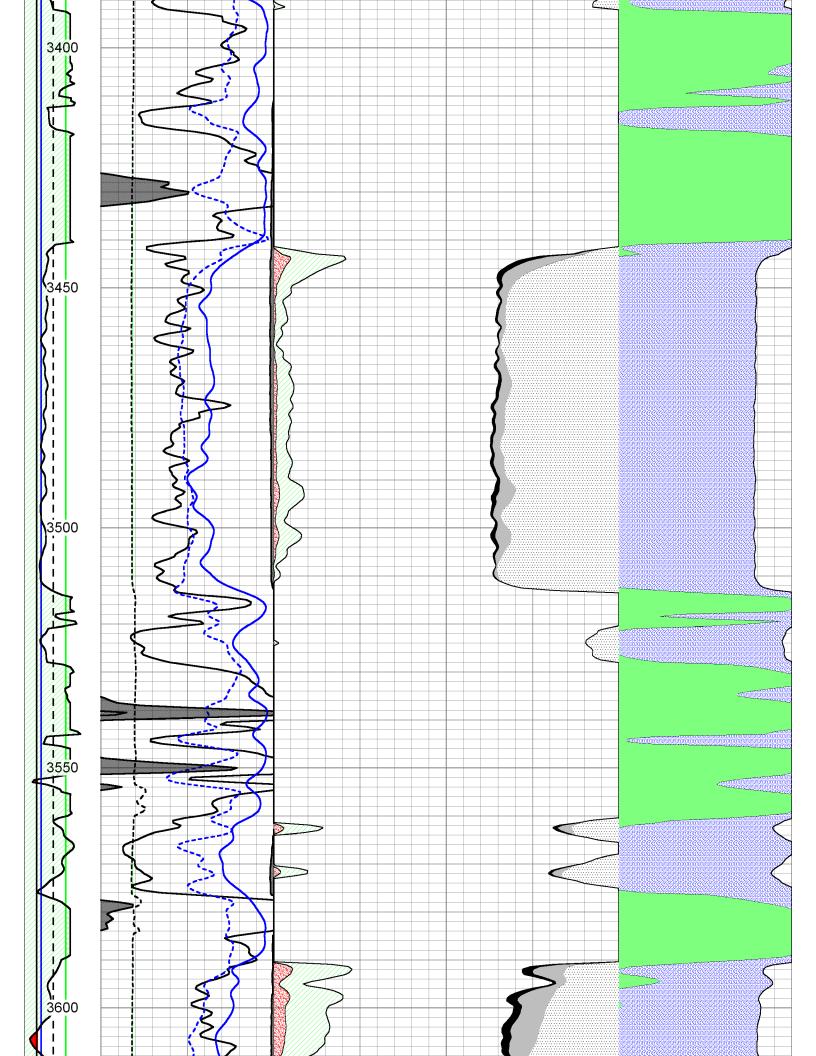
Analysis By	Witnessed By	Recorded By	Payflag	DGA	SPC	DCAL	BVWSXO	BVW	PHIE	VCL	SXO	WS		Depth Logger	Date Recorded	Permanent Datum Ground Level Log Measured From Kelly Bushing Drilling Measured Fronkelly Bushing		15-007-	2417				API No	Pionee	PI
T. Martin	Scott	R. Ba	If: PHIE>	Appa	SP C	Caliper	Bulk	Bulk	Dens	Volur	Wate	Wate		4500	6/21/2014	 	Sec: 36	Location	County	Field	Well	Company		Pioneer Energy Services	PIONEER
artin	Scott Alberg	R. Barnhart	2 , VCL<	Apparent Grain Density	SP Corrected For Baseline	Ē	Bulk Volume Water In Flushed Zone	Bulk Volume Water	Density - Neutron Crossplot Shale Corrected	Volume Of Clay	Water Saturation In The Flushed Zone	Water Saturation			2014	Ground Level Kelly Bushing 9 nt elly Bushing	Twp: 30S	NW SW SE SW 495' FSL / 3900' FEL	Barber	Amber Creek	Herndon #5-36	Prater Oil & Gas		rices	R
			40 , SPC> -10 , SW< 5				ed Zone		Shale Corrected		hed Zone		Curve Definitions			Elevation 1640 Ft. Above Perm. Datum	S Rge: 12W	900' FEL	State	ek	5-36	& Gas Operations, Inc.			Computer Processed Interpretation
			50 & DCAL< 11														Elevation	Other Services DIL/CNL/CDL	Kansas			ns, Inc.			Processed etation
All in ar	terpre	erpret	ns are ation,	opin and	we s	hall r	not, e anyc	xcep one re	t in th esulti	ne ca ng fr	se of om a	f gros ny in	ss or iterpr	willfu etatio id co	il neg on m nditio	gligence of ade by an <u>y</u>	n our / of o	part, be lia	ble or agent	respo s or e	onsible mploy	e for a	ny l	loss, co	acy or correctness of osts, damages, or rpretations are also
										Т	har			for	us			ech, Inc. I							
								S to	o 99	9 SI	orin	gs	Rd.		•	er, KS: Gallarc	lia F	Rd., 1/2	E, N	l into	D				
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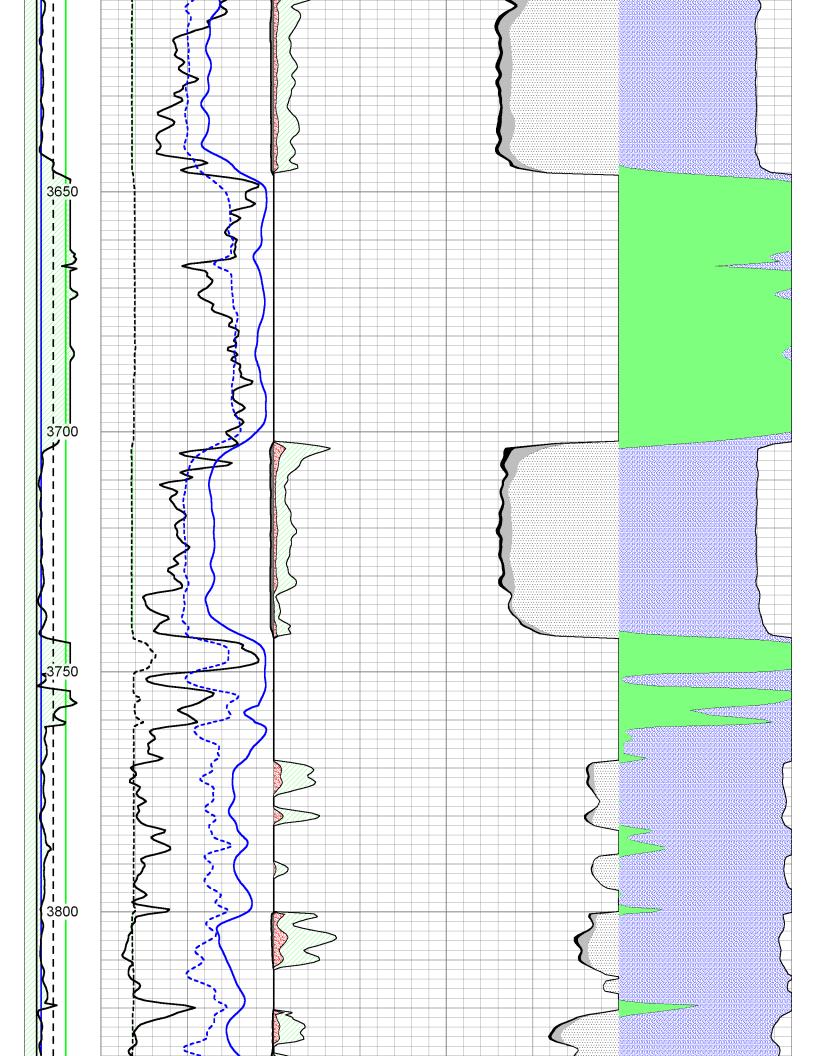
2wxplt Thu Apr 24 14:32:02 1997 Depth in Feet scaled 1:240

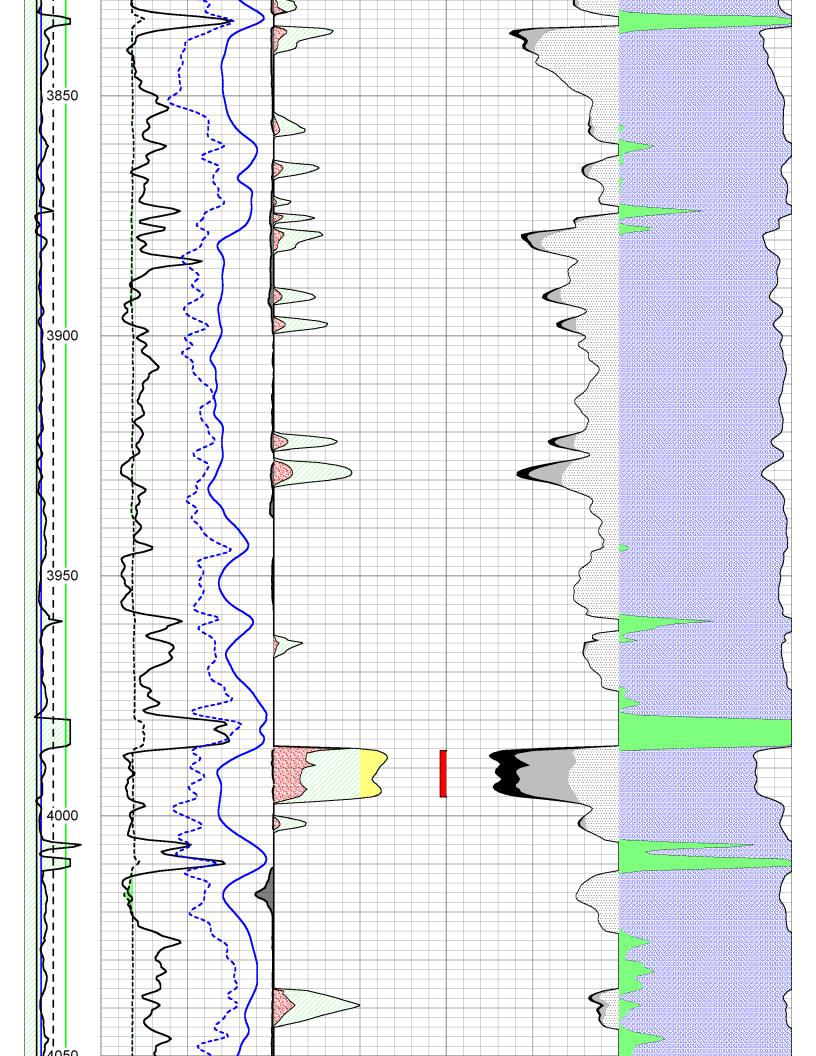
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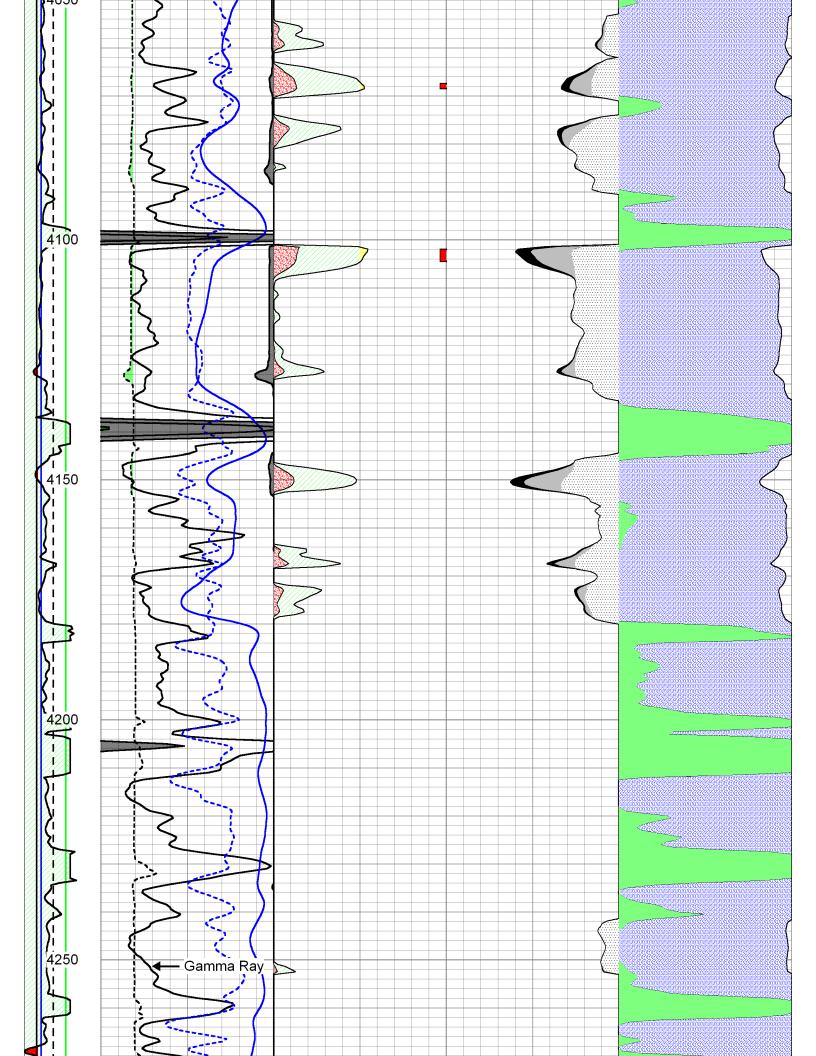


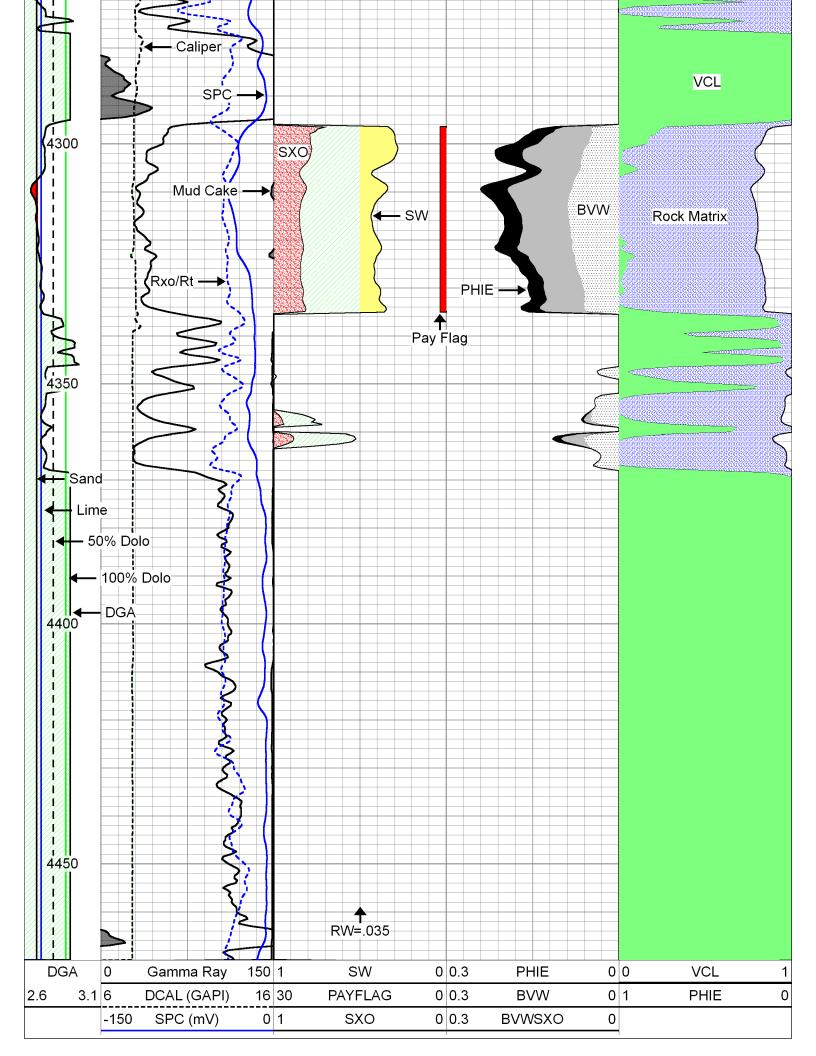






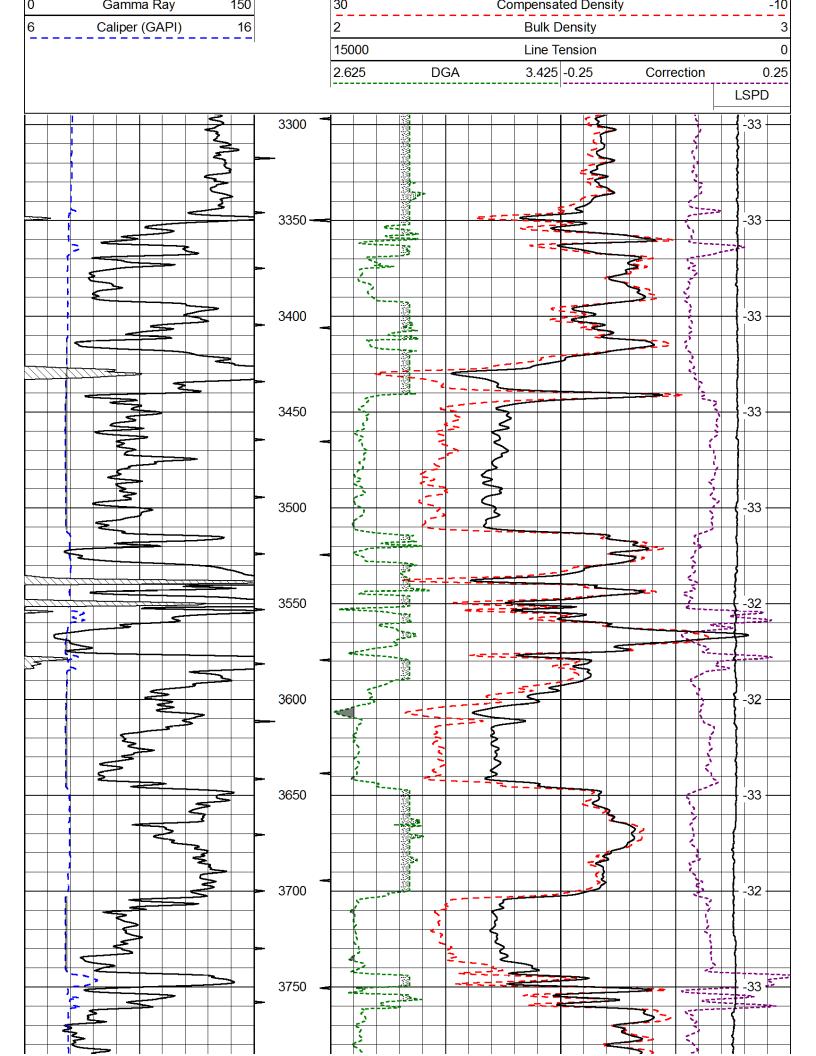


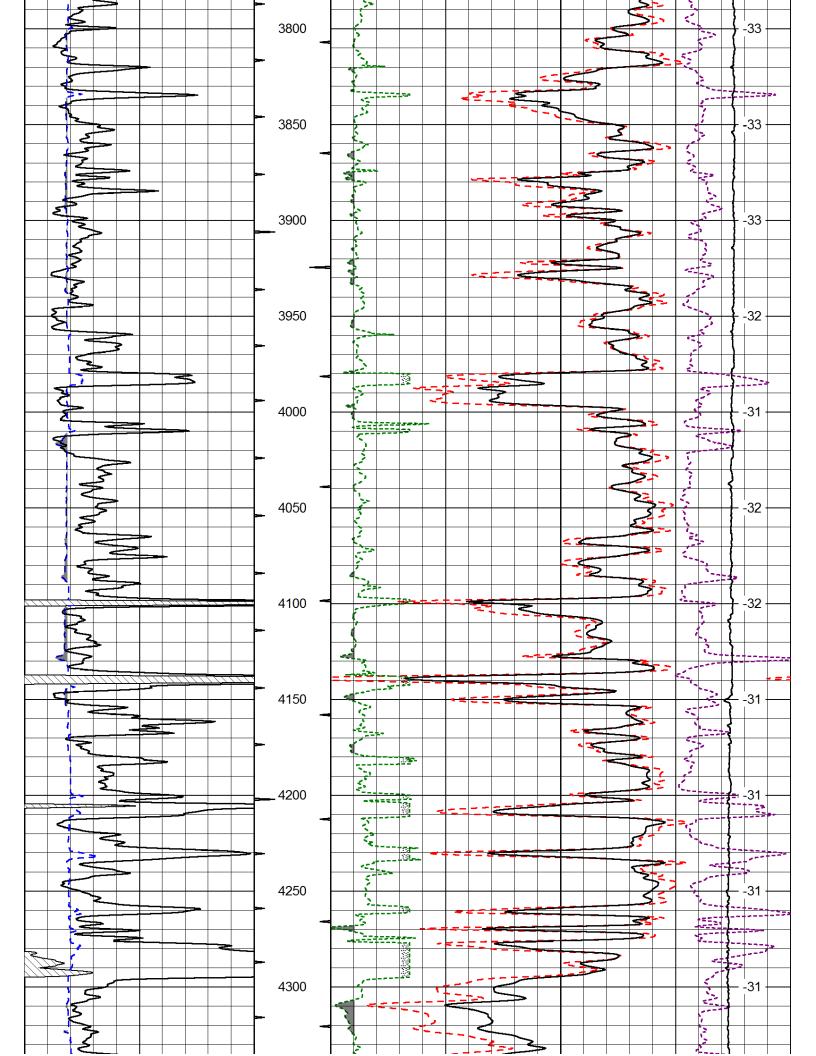


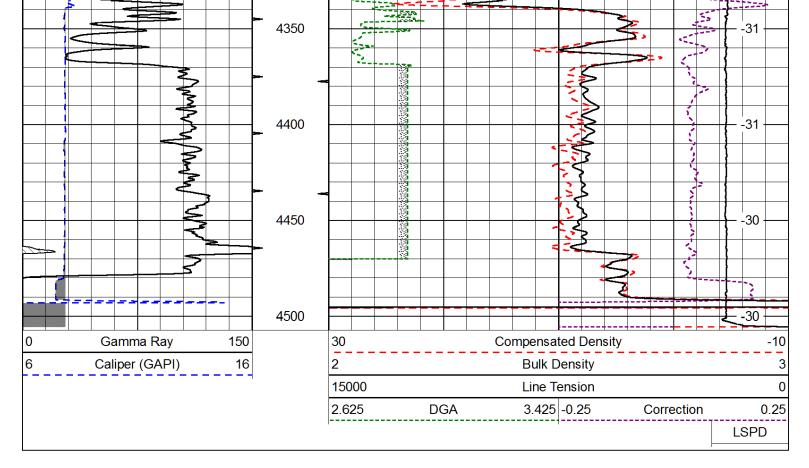


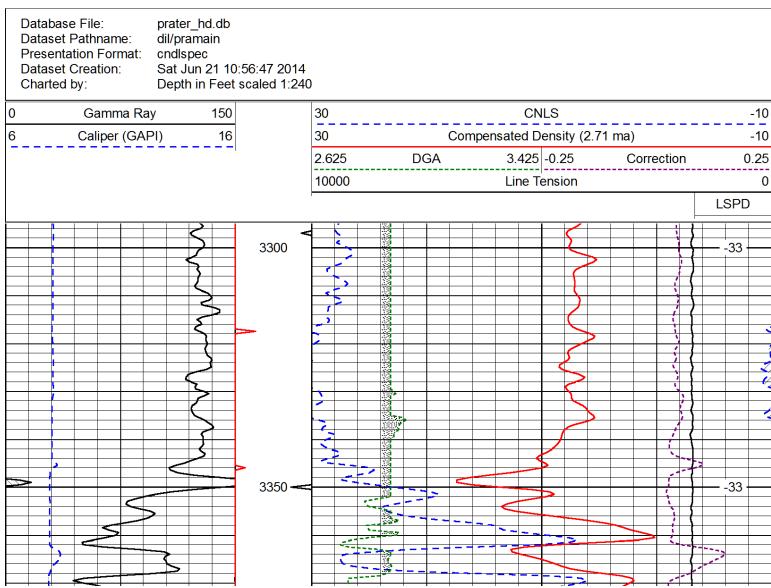
Pionee	PIONEER Pioneer Energy Services	FR		Dual Po	Dual Compensated Porosity Log	nsated _og	e accuracy or correctness of loss, costs, damages, or se interpretations are also	
Pionee	r Energy Se	ervices					loss, co	
API No.	Company	y Prater Oil & Gas	& Ga		Operations, Inc.	Inc.	for any	
	Well		5-36				nsible [.] nploye	
6-00-	Field	Amber Creek	ëk				respoi s or en	into
24176	County	Barber		Ś	State Kar	Kansas	ole or i agents	= NI
-007-2	Location	NW SW SE SW	ĒSW			Other Services	be liat icers, a	
15		495' FSL / 3900' FEL	900' FE	Ë		DIL	r part, our off	
	Sec: 36	3 Twp: 30S		Rge:	12W	Elevation	n ou y of	8
Permanent Datum Log Measured From Drilling Measured From	m From	Ground Level Kelly Bushing 9 Kelly Bushing		Elevation 1640 Above Perm. [Elevation 1640 Ft. Above Perm. Datum	K.B. 1649 D.F. G.L. 1640	ligence or	ng Log 25-385 er, KS: Gallard
Date		6/21/2014					neg i ma ditio	62 /ye
Run Number		One					llful r ation conc	35) Saw
Tenth Driller							or wi preta	(78 S
Depth Logger		4500					oss (nter	-
Bottom Logged Interval	d Interval	4479					of gro any i	
Top Logged Interva	terval	3300					se o om a	
Type Fluid In Hole	fole	Chemical					cas g fro	
Salinity, PPM CI	M CL	7000					the Iting	20
Density		9.3					pt in resul	
May Rec Terr	Temn F	101	+				xce ne	0
Operating Rig Time	Time	3 Hours					ot, e: anyo	
Equipment	Location	17 Ha	Hays				all n	
		R. Barnhart	4				sha	
Witnessed By		Scott Alberg	ĝ				we	
	Borehole Record				Casing Record	rd	ind	
Run No. Bit	From	To	Size	Wgt.	From	To	re o n, a	
	8		8.625	23#	00	271	is ar atior	
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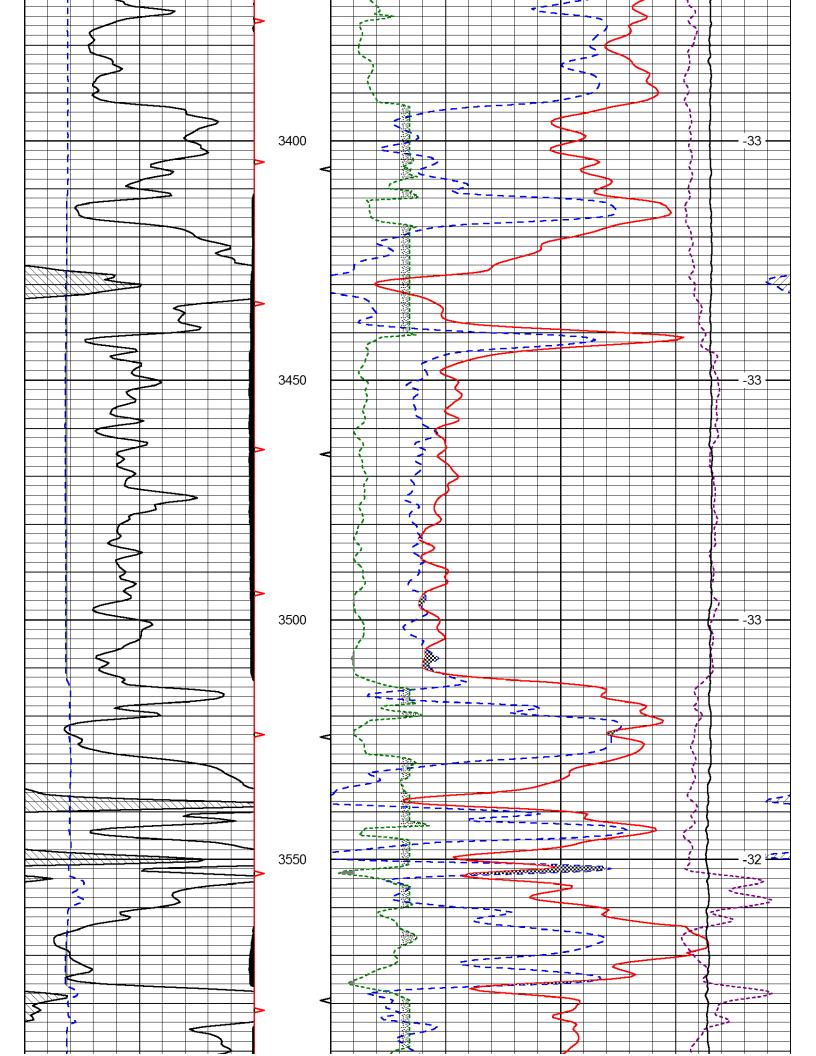
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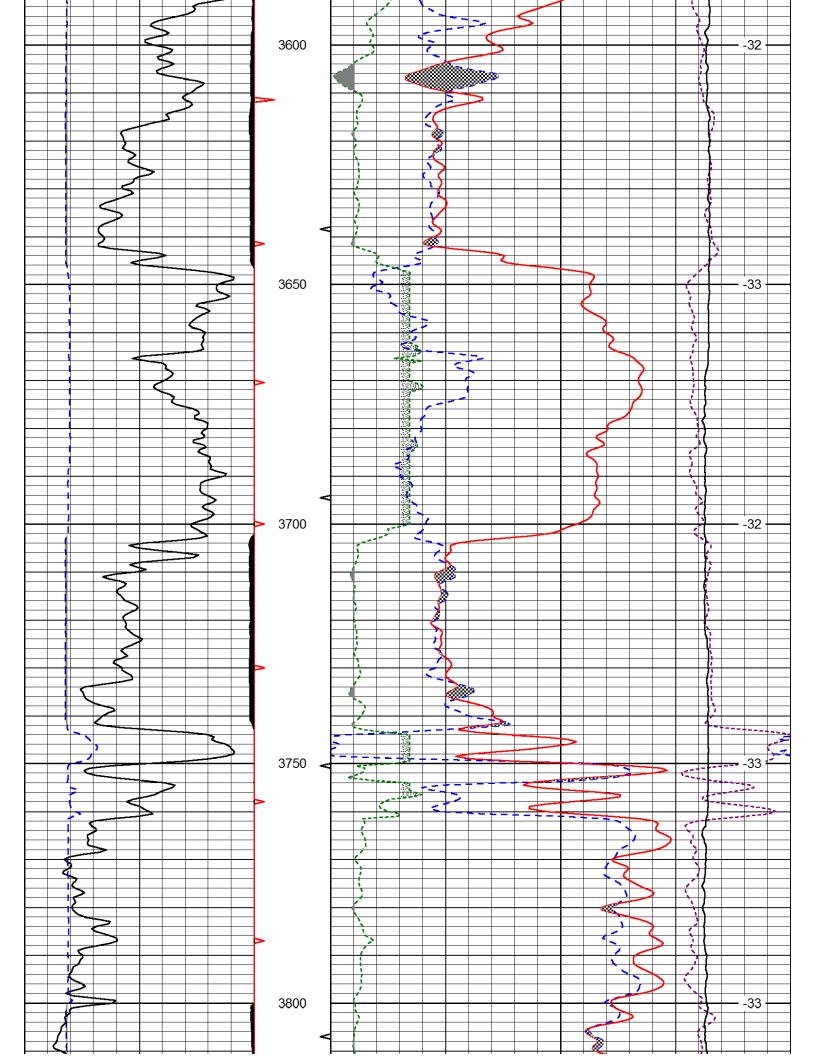


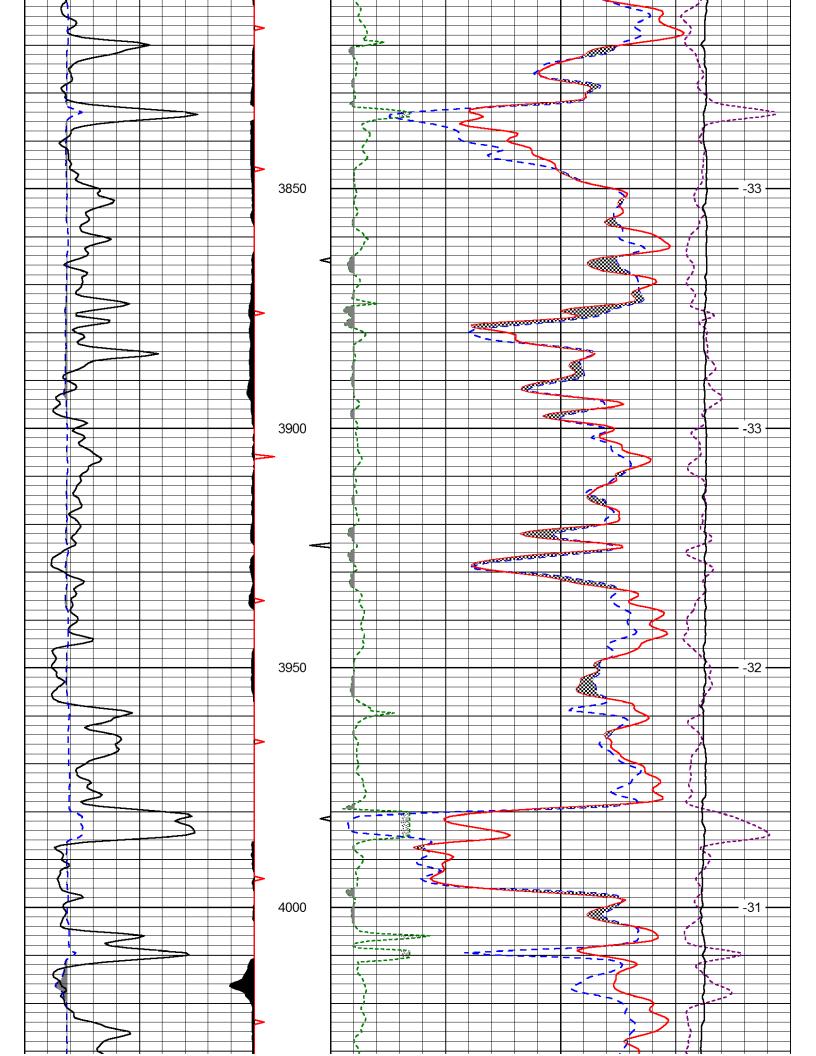


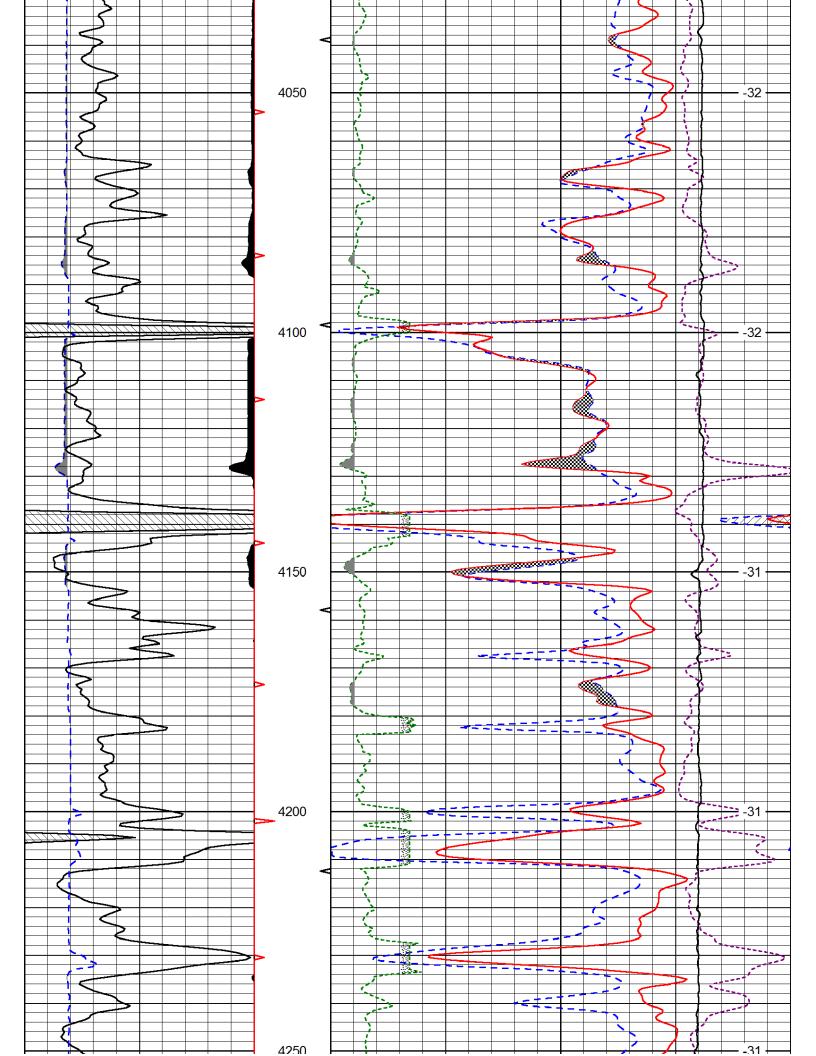


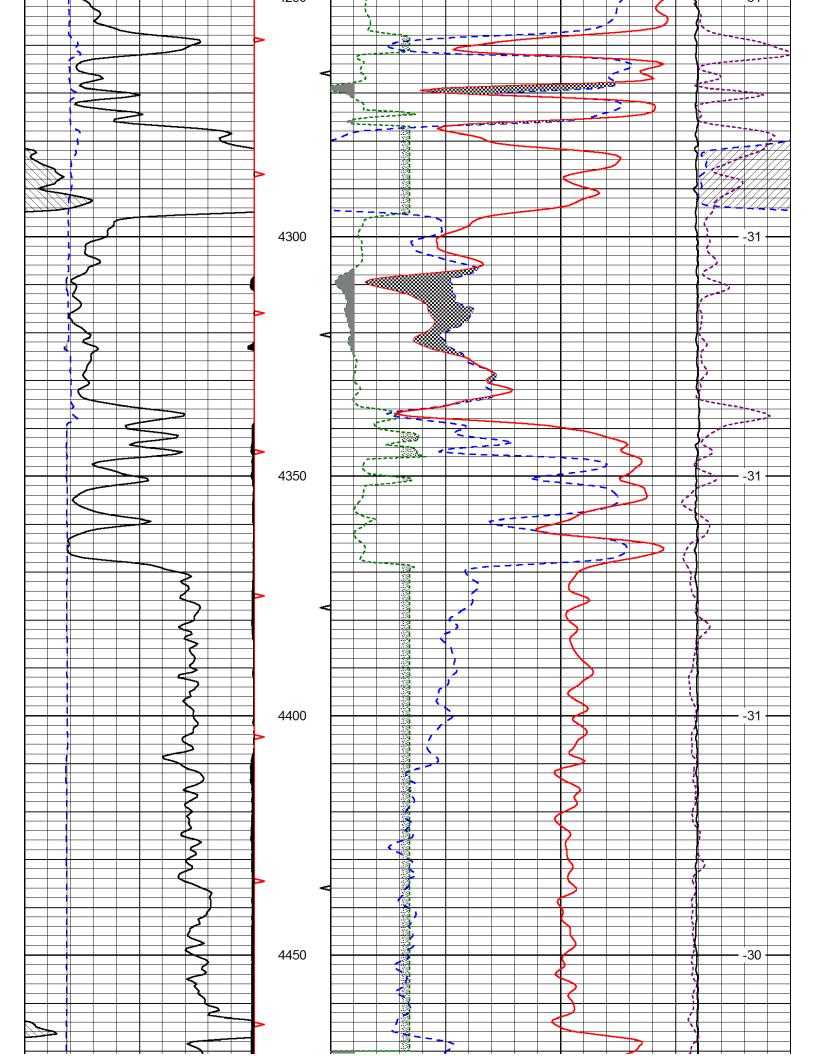


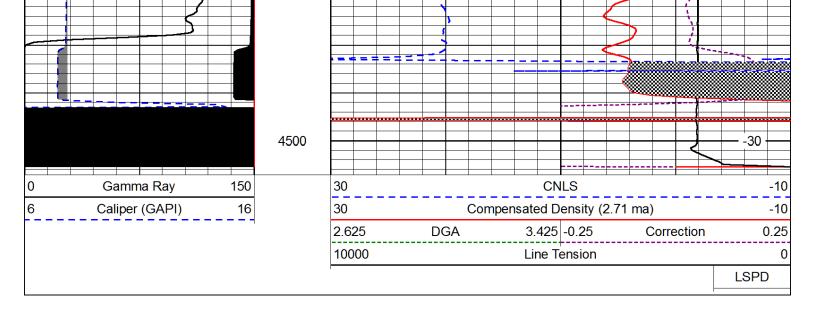












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Pioneer E	Pioneer Energy Services				loss, cos		
API No.)))		,	any l		
		Flatel Oll & Gas		, IIIC.	ible for loyees		
		Amber Creek	¥ 20		esponsi or empl	into	
	County Ba	Barber	state	Kansas	le or r agents	Ξ, Ν	
15-007-: 5	Location 4	NW SW SE SW 495' FSL / 3900' FEL	SW 00' FEL	Other Services CNL / CDL	part, be liat	ch, Inc. Rd., 1/21	
	Sec: 36	Twp: 30S	Rge: 12W	Elevation	n our / of oi	8	
Permanent Datum Log Measured From Drilling Measured From	n Ground Level om Kelly Bushing From Kelly Bushing	Level ushing 9 ushing	Elevation 1640 Ft. Above Perm. Datum	K.B. 1649 D.F. G.L. 1640	ligence or ade by any	ng Log 25-3858 er, KS:	
Date		6/21/2014			neg n ma ditic	usi 62 vye	
Run Number Depth Driller		One 4500			villful etatior d con	for u '85) Sav	
Depth Logger		4500			or v rpre	(7	
Bottom Logged Interval	nterval	250 250			gross y inte	-	
Casing Driller		8.625 @ 271			e of n an		
Casing Logger		270 7 07E			cas g froi		
Type Fluid in Hole	•	Chemical			n the ultin	99	
Salinity,ppm CL		7000			eptii res	to	
Density / Viscosity	Y	9.3 54			exce yone	S	hd.o
Source of Sample	Û	lowlin			not y an		
Rm @ Meas. Te	Temp	0			shall		
	Temp	0.24 @ 74 0.43 @ 74			wes		
	Rmc	Charts			and		ne:
Rm @ BHT		0.20 @ 121			are ion,		
Operating Rig Time	ne	3 Hours			ons etat		
Max Kec. Lemp. F		121 17			terpr		ase et P
Location		Hays			erpr ny in		
Recorded By		R. Barnhart			ll int ar		
Witnessed By		Scott Alberg					

Presentation Format:dilparinalityDataset Creation:dil2inCharted by:Depth in Feet scaled 1:600

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