KOLAR Document ID: 1391255

Confiden	tiality Re	quested:
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

		DECODIDEIO		
WELL	HISTORY	- DESCRIPTIO	N OF WELL	& LEASE

OPERATOR: License #	API No.:
Name:	Spot Description:
Address 1:	Sec TwpS. R East West
Address 2:	Feet from Dorth / 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.xxxx) (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 DH EOR	Total Vertical Depth: Plug Back Total Depth:
CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used?
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:w/sx cmt.
Original Comp. Date: Original Total Depth:	
Deepening Re-perf. Conv. to EOR Conv. to SWD	Drilling Fluid Management Plan
Plug Back Liner Conv. to GSW Conv. to Producer	(Data must be collected from the Reserve Pit)
_	Chloride content: ppm Fluid volume: bbls
Commingled Permit #:	Dewatering method used:
Dual Completion Permit #:	
SWD Permit #:	Location of fluid disposal if hauled offsite:
EOR Permit #:	Operator Name:
GSW Permit #:	Lease Name: License #:
	Quarter Sec TwpS. R East West
Spud Date orDate Reached TDCompletion Date orRecompletion DateRecompletion 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 Drill Stem Tests Received												
Geologist Report / Mud Logs Received												
UIC Distribution												
ALT I II III Approved by: Date:												

KOLAR Document ID: 1391255

Operator Nar	ne:			Lease Name:	Well #:
Sec	Twp	S. R	East West	County:	

Page Two

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 Sheets)			′es 🗌 No			og Formatio	n (Top), Depth a	and Datum	Sample
Samples Sent to Geolo			⁄es 🗌 No	1	Name	Э		Тор	Datum
Cores Taken Electric Log Run Geologist Report / Mud List All E. Logs Run:		□ Y □ Y	Yes ☐ No Yes ☐ No Yes ☐ No						
		Rep	CASING ort all strings set-c] Ne	w Used rmediate, productio	on. etc.		
Purpose of String	Size Hole Drilled	Siz	ze Casing et (In O.D.)	Weight Lbs. / Ft.		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
[ADDITIONAL	CEMENTING /	SQU	EEZE RECORD			
Purpose:	Depth Top Bottom	Туре	e of Cement	# Sacks Use	d		Type and	Percent Additives	
Protect Casing Plug Back TD Plug Off Zone									
 Did you perform a hydra Does the volume of the Was the hydraulic fracture 	total base fluid of the	hydraulic fr	acturing treatment		-	☐ Yes ns? ☐ Yes ☐ Yes	No (If No, s	kip questions 2 ar kip question 3) ill out Page Three	
Date of first Production/Inj Injection:	jection or Resumed Pr	oduction/	Producing Meth	iod:		Gas Lift 🗌 O	ther <i>(Explain)</i>		
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Wate	er Bb	ls.	Gas-Oil Ratio	Gravity
DISPOSITIO	N OF GAS:		Ν	IETHOD OF COM	MPLE	TION:		PRODUCTIC Top	DN INTERVAL: Bottom
Vented Sold (If vented, Subn	Used on Lease		Open Hole		-	·	nit ACO-4)	юр	Bollom
	foration Perform Top Botto		Bridge Plug Type	Bridge Plug Set At		Acid,		ementing Squeezend of Material Used)	
TUBING RECORD:	Size:	Set At:		Packer At:					

Form	ACO1 - Well Completion
Operator	Larson Engineering, Inc. dba Larson Operating Company
Well Name	SPLITTER B 1 OWWO
Doc ID	1391255

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.125	8.625	20	290	Common	190	2% gel 3% CC
Production	7.875	4.5	11.6	4684	EA-2	150	7# gilsonite, 1/4# flocele

S	WIFT		HARGE TO:	A	RSON ENGENEERENG]				TIC	KET	3080	5
Ser	vices, Inc.	C	ITY. STATE, ZIP	° C0	DE						PAC	se 1	 2	
SERVICE LOCATIONS 1. VESS Control 2. 3. 4. REFERRAL LOCATION	TICKET TYPE C			CAT	CTTER OWNO LANE PRICE, #1 PRICE, #1 PRICE PRICE, #1 JOB PURPOSE LOPMENT CEMENT 4'12'' LO	Ks		CAT	ton	OR	2-17-1 DER NO.	7	SAME SAME	
PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	LOC	ACCT (DF	DESCRIPTION		QTY.	UM	QTY.	UM	UNIT		AMOUNT	
<u></u>		1			MILEAGE # 112		40	m			5	00	200	6
<u></u>		1			PUMP CHARGE - LONGSTRING			1	4684	FT	1250	T	1250	
		1		_	LTOND KCL	······································		GAL		i	25	100		00
280		1		_	FLOCHECK 21		<u> </u>	GAL			3	00	1500	
419					ROTATIONS HEAD RESTAL		1	aob			200		200	
			~											
the terms and con	Customer hereby acknowledg ditions on the reverse side here d to, PAYMENT, RELEASE, II ANTY provisions.	of whic	h include,		REMIT PAYMENT TO:	SUR OUR EQUIPMENT WITHOUT BREAK WE UNDERSTOOI MET YOUR NEED OUR SERVICE WA	PERFORMED DOWN? D AND S?	AGI		DIS- AGREE	PAGE TOT	_ _	3200	
MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS					P.O. BOX 466 NESS CITY VS 67560 SVIET SERVICES, INC. PERFORMED WIT WE OPERATED TO CALCULATIONS SATISFACTORIUS						127 UBL TAX		<u>-958</u> -958 8678	31120
X DATE SIGNED . 12-17-1	TIME SIGNED		PTANCE OF	MA	785-798-2300 TERIALS AND SERVICES The customer hereby ackr		TOMER DID NO	TWISH	TO RESPOND	us tickot	LAN 4 TOTAL	·).	9232	10
SWIFT OPERATOR	UAWE INTSON		APPRO							ins tionet			Thank I	611

SW		PO B	ox 466			TICKET CONTINUATION								No. 30805				
Service	Nes	s City	KS 675			GUSTOMER LARSON	SUGTNEE	RING		SPIDITE	R B	rl ou	500	DATE 12-17 -	17	PAGE OF	5	
PRICE	SECONDARY REFERENCE/ PART NUMBER		ACCT	G DF	TIME		DESCRIPT	TION .	्र स्ट स्ट			017.		UNIT		AMÖUNT	t i i	
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		1				GUSONDE				1400	uss				<u>175</u>	1050	<u>00 k</u>	
283		١				SALT				1000					20	200	<u>2400</u>	
284		1				CALSEAL		. <u> </u>		9	SYS	900	<u>uss</u>		100	270		
290		1				D-ADR					GAL			42	00	126	00	
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<u>र</u> 8।						SERVICE CHARGE				CUBIC FEET		200	>)	50	300	00	
\$83		1				CHARGE TOTAL WE	325	LOADED MIL	LES D	TON MILES		446			K	334		
•												1	ONTIN	UATION TOTAL		6387		

							r
JOB LO					SWIF	T Seri	uices. Inc. DATE 12-17-17 1
CUSTOM	<u>2 23677</u>	DEPETAG	WELL NO.		LEASE SPIDIT	<u>e</u> 0	JOB TYPE TICKET NO.
CHART NO.	ТІМЕ	RATE (BPM)		PUMPS T C	PRESSU TUBING	IRE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	1200	-					ON LOCATIZON - RUNNING 41/2" CASENG
							TD-4685' SET e 4684
					 		TP-4693' 41/2 # 11,6
<u> </u>	<u>.</u>						55-41'
			 .				PORT COLLAR - 2116
	1230						
	1230						DROP BAL-CIRCULATE ROTATE
. <u></u>	1340	Ь	15	<u> </u>		400	PUMP KCL WATER SPACER
	1343	6	12	- 1		400	PUMP SOD GAL FLOCHECK 21
	1345	Ь	క	~		400	PUMP KCL WATER SPACER
	1350		7-5			<u> </u>	PLUG RH (305KS) MH (205KS)
	1400	41/2	36	✓		২২০	MX CEMENT - ISO SKS EA-2 = 18,2 PPG
<u></u>	1410						WASH OUT RUMP-LINES
	1410						REIGASE L. D. PLUG
	1415	6 ³ /4	0				DISPLACE PLUG
		b ³ /4	62			750	SHUY OFF ROTATE
	1427	5'h	72.1			1500	PING DOWN - PSE UP LATCH IN ANG
	1430					OK	RELEASE PSZ-HELD
							WASH TRUCK
	1500						JOB COMPLETE
							THANK YOU
							WAWE, PRESTON, DUSTY

.

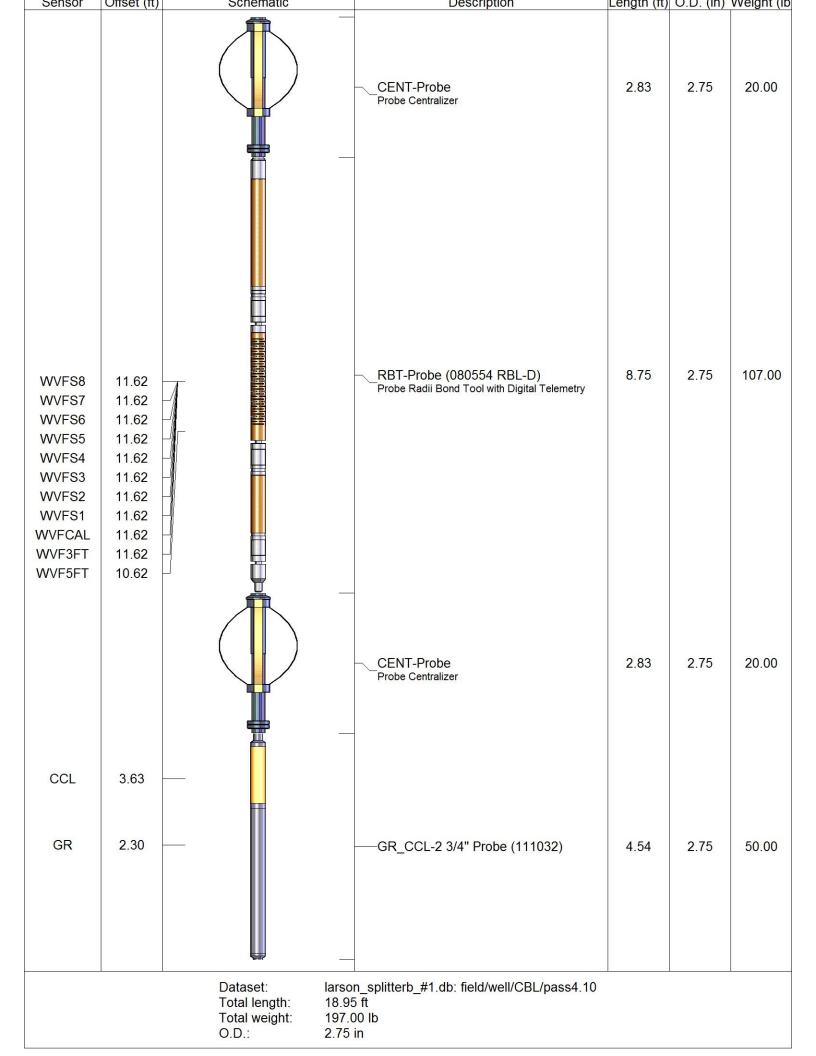
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SWI	FT s, Inc.			CHARGE T ADDRESS CITY, STAT	TE, ZIP CODE	g: noering							 ,	51129)
SERVICE LOOATION	Sch KS	WELL/PROJE	CTNO.	LEAS	Esplitter B	COUNTY/PARISH	STA K		5	1.1	=	DATE		WNER	
1. 7000	mg no	TICKET TYPE	CONTRAC	TOB	Splitter D	RIG NAME/NO.				hton		20 Dec. 1	7		
	<u></u>				WHAT WE	-	Viet		oca`	tian		UNDER NU.			
		WELL TYPE	0.1				. 11 .	WELL PE	RMIT	NO.		WELL LOCATIO)N	-	
REFERRAL LOCAT	ION	INVOICE INS			evelopment]	<u>cement fort</u>	collar								<u>\</u>
PRICE	SECONDARY		1 4000	UNTING											
REFERENCE	PART N			CCT DF	DES			QTY.	U/M	QTY.	U/M	UNIT PRICE		AMOUN	т
575			1		MILEAGE	TRK 114		-30	m			5	80	150	20
<u>576D</u>			1		PUMp Char	ge PORT	COLLAR	1	<i>Qb</i>			1250	00	1250	100
330					STAD CO	ment		-275	st			+5	75	4239	
_ 276_			1		flocele			75	16			2	25	168	75
290					DATE			3	qa 1			42	00	126	00
581		<u></u>	١		Service	Charge		300	sk				L	450	28
583			1		Drayage	. 0		89853	16	447.80	TM	0	25	335	85
330			1		SMD Em	ent		275	sk			15	75	4331	25
										,					_
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LEGAL TERMS: the terms and cor	Customer here	by acknowledg	es and agr	ees to	REMIT PA	YMENT TO:	OUR EQUIPMENT P		AGREE	UNDECIDED	DISAGR	PAGE TOT	TAL	68()	85
but are not limite	d to, PAYMENT	, RELEASE, I		r, and			WITHOUT BREAKDO	AND			-	10200	.	681	+
LIMITED WARR					SWIET SEE	RVICES, INC.	MET YOUR NEEDS: OUR SERVICE WAS				-	h	A 1	6130	116
MUST BE SIGNED BY C			OR TO			BOX 466	PERFORMED WITH WE OPERATED THI	EQUIPMENT			-	and	-		
START OF WORK OR E	CLIVERY OF GOODS.					Y, KS 67560	AND PERFORMED, CALCULATIONS SATISFACTORILY?	10B				7.5%	6	212	21
DATE SIGNED		IME SIGNED		A M		98-2300	ARE YOU SATISFIED		E? YES	 [] NO	L				1
	l'			245	/00-/3	30-2300			_		DND	TOTAL	-	10447	192
*			VCE OF M			e customer hereby ack	nowledges recei	pt of the ma	terials	and servic	es list	ed on this ticl	ket.		·····
SWIFT OPERATOR		_B	CHI	APPRO	VAL		• .						7	hank Yo	u!
			5.4												

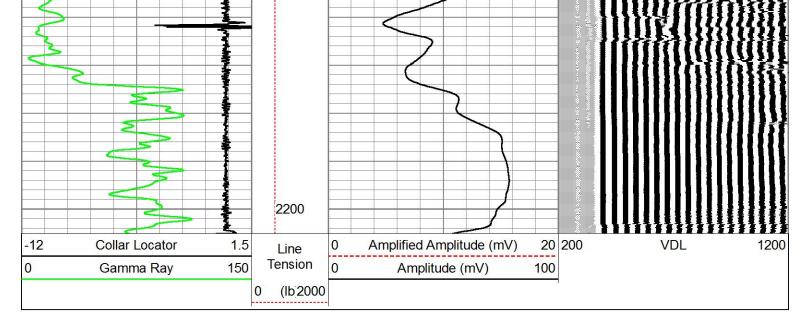
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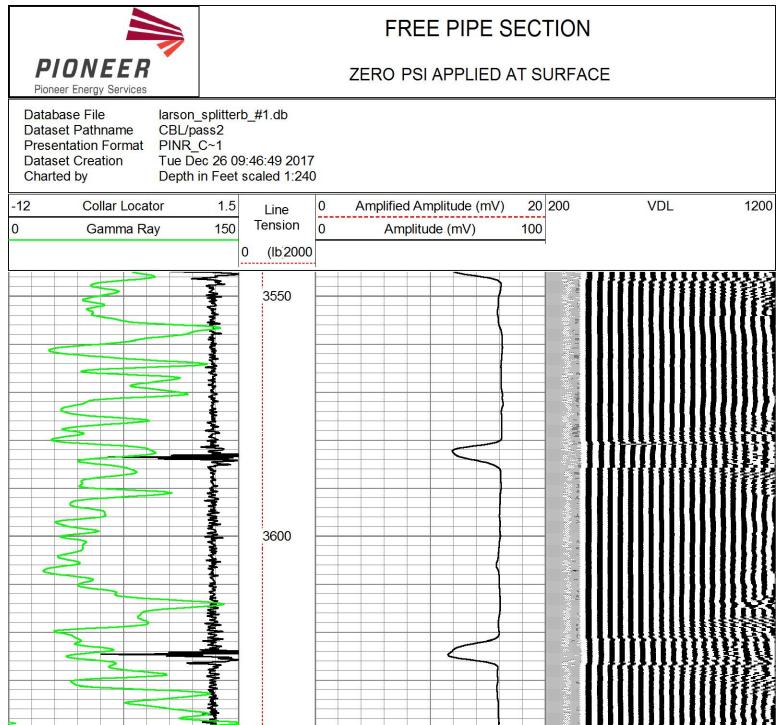
. . DATE PAGE NO. SWIFT Services, Inc. JOB LOG 20 DEC/7 WELL NO. PRESSURE (PSI) JOB TYPE poit alle TICKET NO. 3 CUSTOMER Stomer Engineering 31129 RATE (BPM) VOLUME (BBL) (GAL) PUMPS CHART NO. тіме ' DESCRIPTION OF OPERATION AND MATERIALS ΤC TUBING CASING 300 st SMD coment w/14# flocale 28×42 poetcollar - 2116 on loc TRK 114 1045 test to 1000psi - helds open port collar 1105 1000 1000 inj note 32 20 pci - good blow mix SMD comment @ 11/2 ppg slight blow Slight pressure increases hit the throttle - increases the 31 400 2 32 1/15 ZOO 31 49 215 creculate flerid to pit. 5 51 60 duep back to 3 bp m @ 300 3 300 - continuing cire -► coment to sing ace. 3 425 150 2755k to P't 7 bbl H20 Elose port coller 1000 fest to 1000 ps; - held RUN 5 joints 7 425 3 1215 1000 Roverse hole clean wash trick Rack up job complete Hudes Black, Flant & 15mc 1320

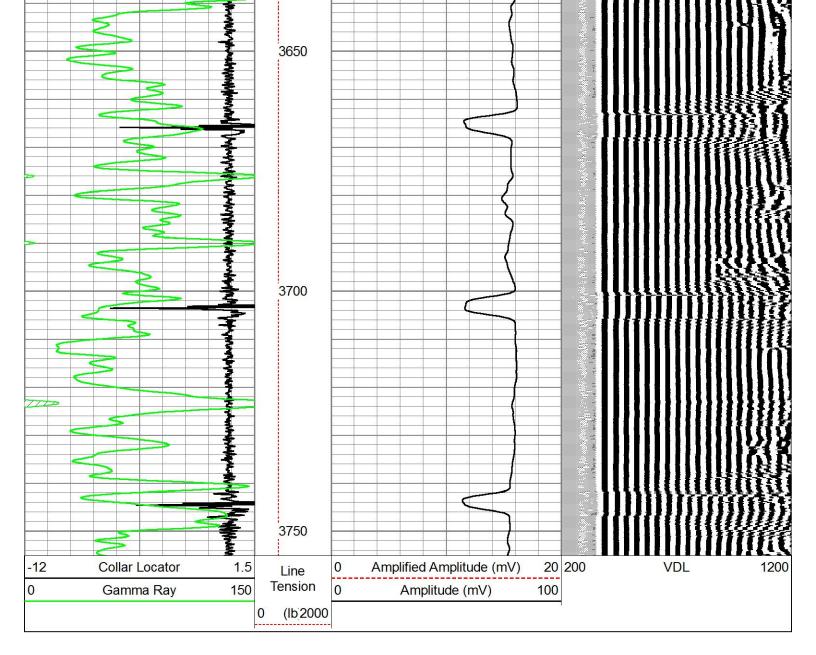
Liner Record	Production Casing	Surface Casing	Tubing Record		Witnessed By	Recorded By	Location	Wireline Size	Unit Number	Estimated Cement Top	Wellhead Connection	Max. Wellhead Pressure	Max. Recorded Temperature	Fluid Density	Fluid Level	Type Fluid	Open Hole Size	Top Log Interval	Bottom Log Interval	Depth Logger	Depth Driller or PBTD	Run Number	Date of Service	VVellSFieldNCo.LStateN	SPLI V/A LANE	TTEF E	ENGI R B #'					PIONEER Pioneer Energy Services	
	4.5"			Size								Œ	ature											Permanent Datum Log Measured From Drilling Measured From	IS		Location:	County	Field	Well	Company	FER y Services	17
	-	24			BRIAN CABLE	T. MARTIN	HAYS	0.288"	106	3810'	WELLHEAD	00 PSI	122 DEG F	N/A	260'	WATER	7.875"	3750'	4631	4633	4641	ONE	12/26/2017	m From	<mark>35</mark>	CV		LANE	N/A	SPLITT	LARSO	N	//
	11.6#			Wt/Ft	ABLE	RTIN	S	8"	0,	0	IEAD	SI	IG F			ER	5	0	-	Q	-	П	2017	GROUND LEVEL KELLY BUSHING KELLY BUSHING	TWP 16S	C W/2 W/2 NW	API # :			SPLITTER B #1	N ENGI	≤C	
	00'			Тор																				L Elevation 2801' G 5' Above GL	RGE 27W			State KAN		_	LARSON ENGINEERING, INC.	CEMENT BOND LOG WITH GAMMA RAY	
	TD	1		Bottom																				Lievenuon K.B. 2806' D.F. N/A G.L. 2801'	Elevation	PERF	Other Services	KANSAS			INC.	A RAY	
A	All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not uarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees.																																
										١	N/A		DE	N	DT	E	S	N	0	Γ A				nents ABLE (DR	NOI	N-AF	PLIC	CAB	LE.			
	N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE. DIGHTON, 3 W TO IKE RD, 2 S, 1 E, 1/4 S, E INTO LOG RAN WITH 00 PSI SURFACE PRESSURE APPLIED																																
	THANK YOU FOR USING PIONEER ENERGY SERVICES!																																
00	Your Pioneer Energy Services Crew Tool Data Services Engineer: T. MARTIN Operator: Operator: Operator:										ər																						

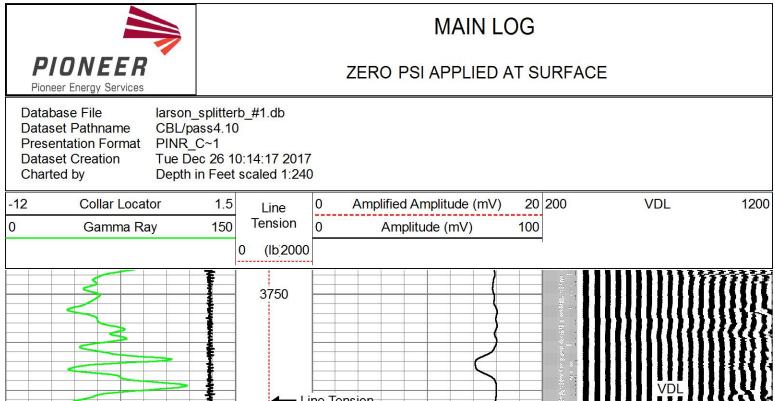


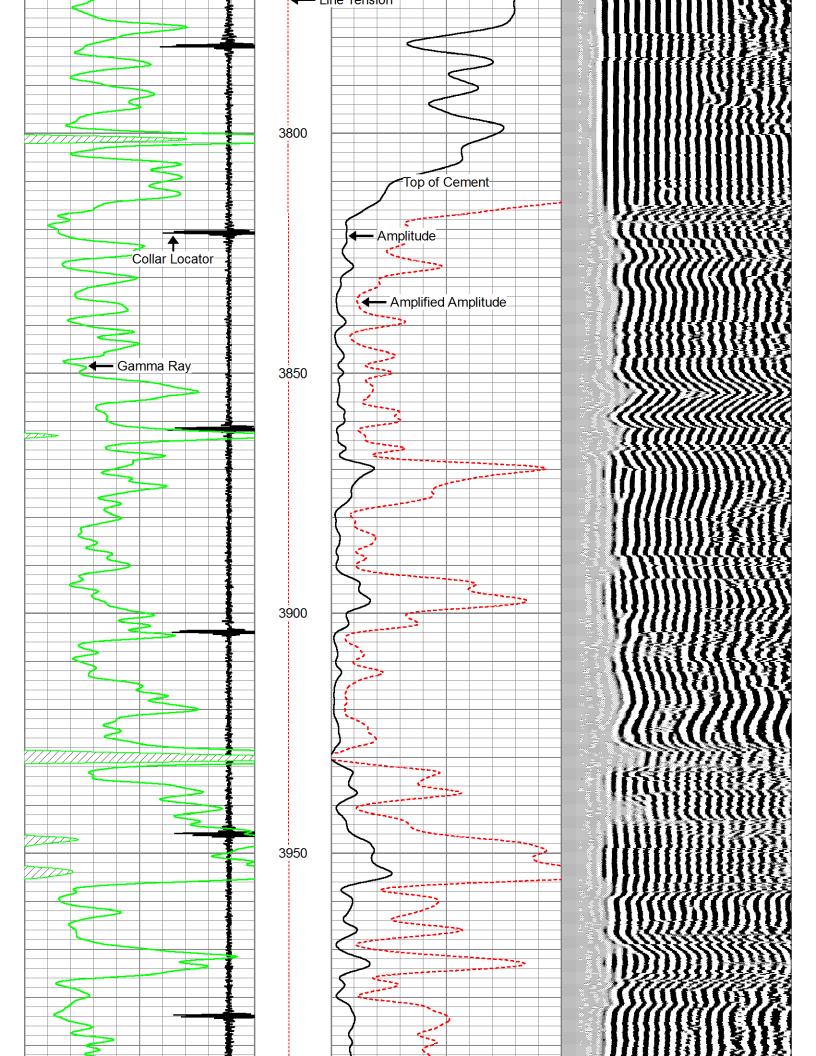
			Top -	Bottom			
PP use 0	ec Ib/ft	MAXAMPL mV 0	MINAMPL mV 1	MINATTN db/ft 0.8	SRFTEMP degF 10	CASETHCK in 0.25	CASEOD in 4.5
PER 0	ft	BOTTEMP degF 122	BOREID in 7.875				
				MAIN	I PASS		
	DNEER Energy Services			PORT COL	LAR @ 2118	3'	
Present	Pathname CBL/pa ation Format PINR_ Creation Tue De						
2	Collar Locator	1.5 Line		ified Amplitude	mV) 20 200	VD	L 12
	Gamma Ray	150 Tensior	,	Amplitude (mV)	100		
		0 (lb ₂ C					
	Port Collar						
		2150		$\left\{ \right.$			

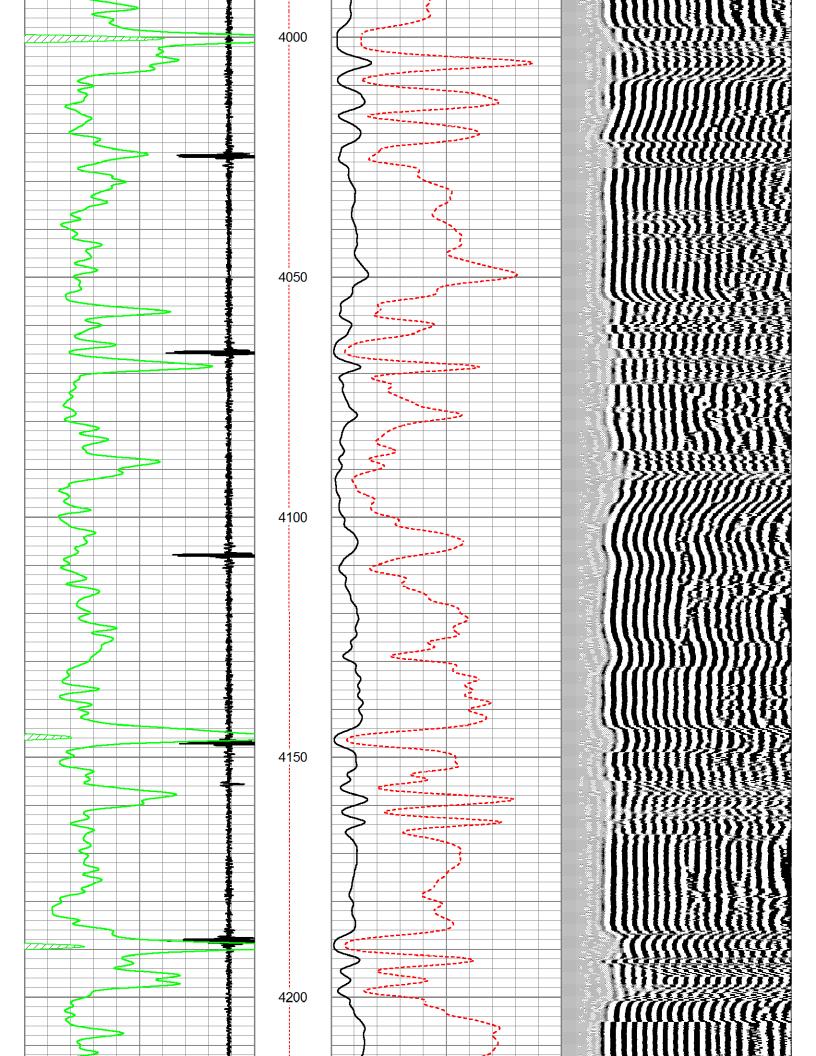


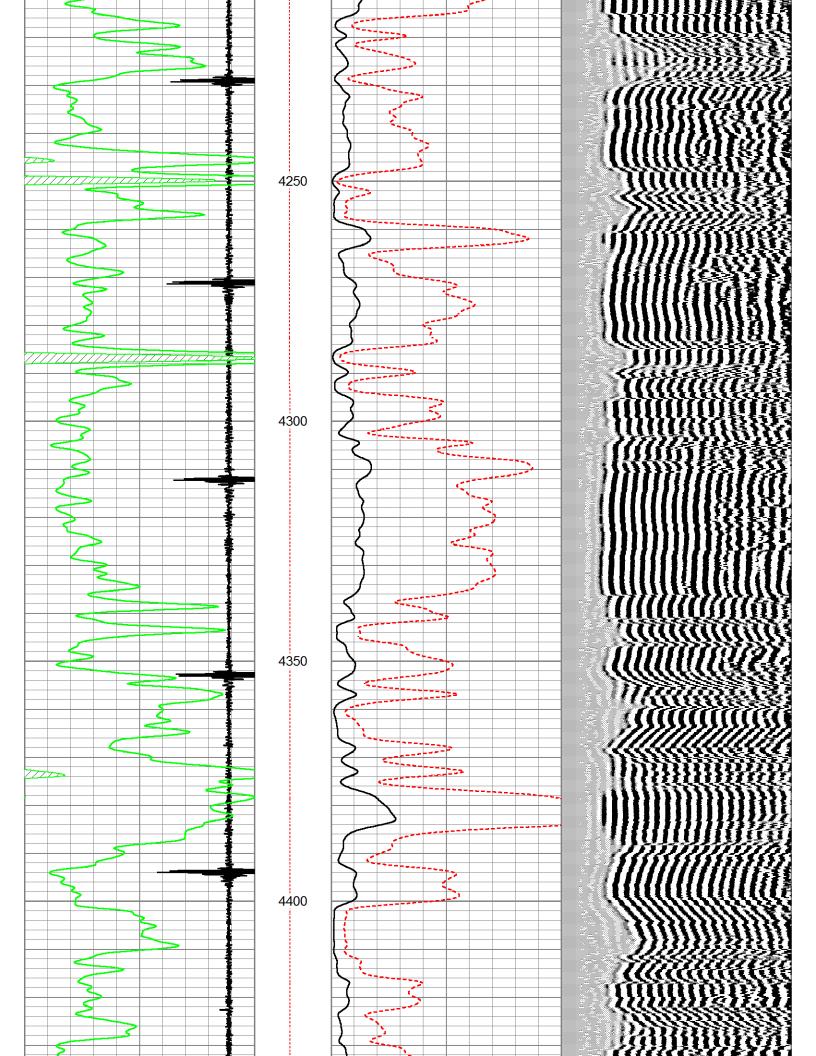


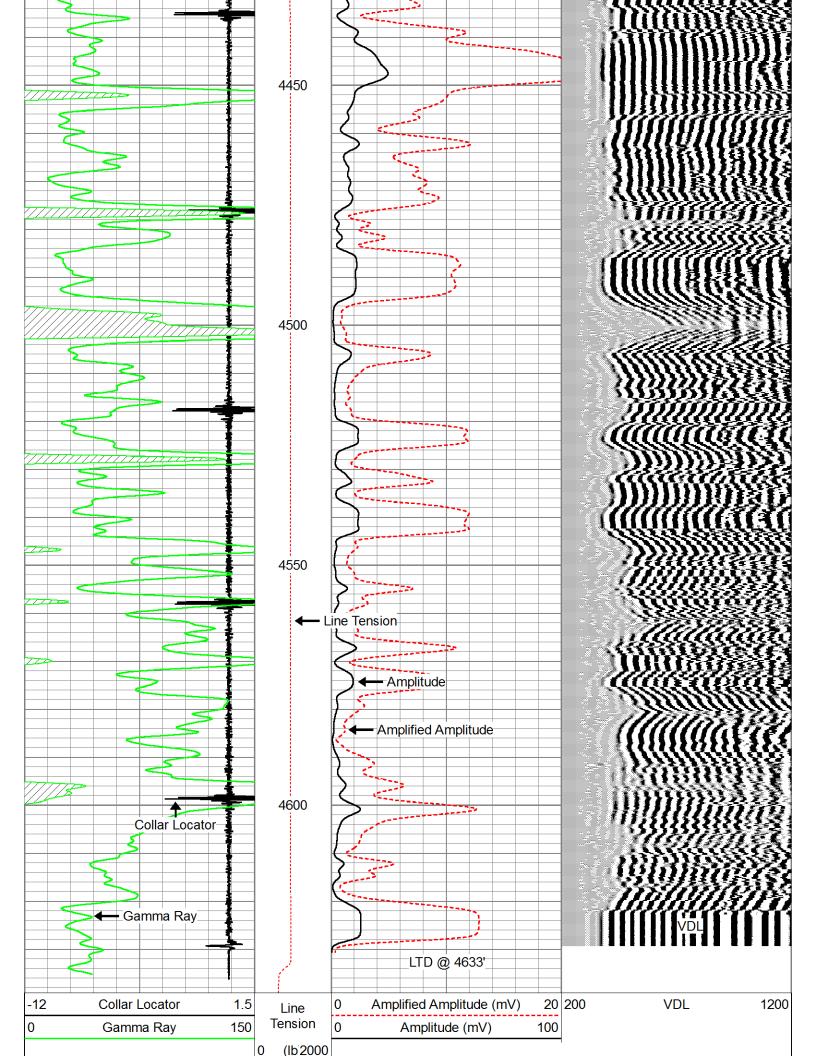


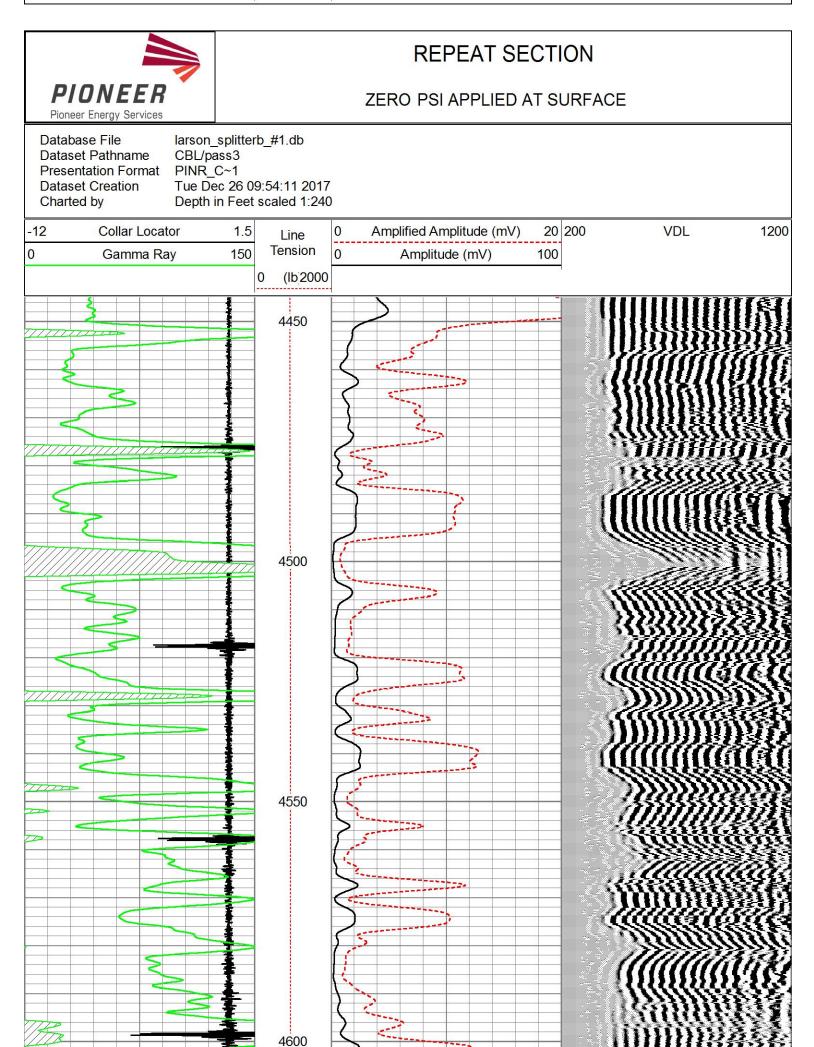












-12	Collar Locator 1.5	Line	0 Amplified Amplitude (mV) 20	200 VDL 1200
0	Gamma Ray 150	· ·	0 Amplitude (mV) 100]
		0 (lb [:] 2000		-

Database File Dataset Pathname Dataset Creation	larson_splitterb_ CBL/pass4.10 Tue Dec 26 10:14		Calibration F	Report						
		Ga	amma Ray Calib	ation Report						
Serial Nur Tool Mode Performed	el:		111032 2 3/4" Probe Tue Sep 05 13:3	35:03 2017						
Calibrator	Value:		1.0							
Backgrou Calibrator	nd Reading: Reading:		0.0 1.0							
Sensitivity			1.0010	/cps						
		Segmented	d Cement Bond L	og Calibration Repo	ort					
Serial Nur Tool Mode			080554 RBL-D Probe							
	Calibration Casing Diameter: Calibration Depth:			4.500 in -3577.104 ft						
Master Ca	libration, performe	ed Tue Dec	26 09:46:30 201	7:						
	Raw	(v)	Cali	prated (mv)	Resu	ults				
	Zero	Cal	Zero	Cal	Gain	Offset				
CAL T1R1 T1R2 T2R1 T2R2 T1R3 T2R3	-0.001	2.394								
S1 S2 S3 S4 S5 S6 S7 S8	-0.015 0.003 0.004 0.006 0.001 0.000 0.006 0.004	2.168 2.193 2.264 2.343 2.415 2.463 2.463 2.418 2.255	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	00 100.000 00 100.000 00 100.000 00 100.000 00 100.000 00 100.000 00 100.000 00 100.000	45.805 45.671 44.239 42.781 41.424 40.602 41.459 44.431	0.701 -0.156 -0.168 -0.239 -0.040 -0.017 -0.228 -0.181				

Internal Reference Calibration,	performed Sat Jun 14 10:55:06 2008:
---------------------------------	-------------------------------------

	Raw	(v)	Calibrate	ed (v)	Results			
	Zero	Cal	Zero	Cal	Gain	Offset		
CAL	0.000	0.000	-0.001	2.394	1.000	0.000		

Air Zero Calibration, performed Tue Dec 26 09:25:56 2017:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
T1R1 T1R2 T2R1 T2R2 T1R3 T2R3 S1 S2 S3 S4 S5 S6 S7 S8	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000

	Company	LARSON ENGINEERING, INC.
	Well	SPLITTER B #1
	Field	N/A
PIONEER	County	LANE
Pioneer Energy Services	State	KANSAS