KOLAR Document ID: 1318812

Confident	tiality 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	- DESCRIP	WFII &	I FASE
	Instont		$\mathbf{W} \mathbf{L} \mathbf{L} \mathbf{L} \boldsymbol{\alpha}$	LLASL

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.xxxxx) (e.gxxx.xxxxxx)
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:
	Total Vertical Depth: Plug Back Total Depth:
CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet
$\Box \text{ Cathodic } \Box \text{ Other } (Core, Expl., etc.);$	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 Be-perf Conv to FOB Conv to SWD	Drilling Eluid Monogement Plan
Plug Back Liner Conv. to GSW Conv. to Producer	(Data must be collected from the Reserve Pit)
	Chloride content:ppmEluid 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 #:
Spud Date or Recompletion DateDate Reached TDCompletion Date or 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 Drill Stem Tests Received				
Geologist Report / Mud Logs Received				
UIC Distribution				
ALT I II III Approved by: Date:				

KOLAR Document ID: 1318812

Operator Nam	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 Sh	eets)	Y	es 🗌 No			og Formatio	n (Top), Depth	and Datum	Sample
Samples Sent to Geolog	nical Survey		és 🗌 No	Ν	lame	e		Тор	Datum
Cores Taken Electric Log Run Geologist Report / Mud List All E. Logs Run:	Logs		ies No ies No ies No						
		Repo	CASING I	RECORD] Ne	w Used rmediate, productio	on, etc.		
Purpose of String	Size Hole Drilled	Siz Se	ze Casing tt (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 Tyr Top Bottom		e of Cement	# Sacks Used	k		Type and	Percent Additives	
Protect Casing Plug Back TD 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)							nd 3) of the ACO-1)		
Injection:			Flowing	Pumping		Gas Lift 🗌 O	ther <i>(Explain)</i>		
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Wate	er Bb	ls.	Gas-Oil Ratio	Gravity
DISPOSITION	I OF GAS:		M	ETHOD OF COM	IPLE	TION:		PRODUCTIO	ON INTERVAL:
Vented Sold Used on Lease (If vented, Submit ACO-18.)			Open Hole	Perf. D	ually <i>ıbmit</i>	Comp. Com ACO-5) (Subn	mingled	Тор	Bottom
Shots Per Perforation Perforation Bridge Plug Foot Top Bottom Type			Bridge Plug Type	Bridge Plug Set At		Acid,	Fracture, Shot, C (Amount and Ki	ementing Squeeze	Record
	Size:	Set At:		Packer At:					

Form	ACO1 - Well Completion
Operator	Blue Ridge Petroleum Corporation
Well Name	PFEIFFER 1-26
Doc ID	1318812

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	12.25	8.625	24	215	Common	150	gel, 3% CC2%

JOB-LC)Ġ					SWIFT	Serv	ices, Inc.	DATE 9-20-16 PAGE NO.
BINER	KE PEN	ROLENM	WELL NO.	26		PFELF	FER	JOB TYPE " SURFACE	TICKET NO. 29341
CHART NO.	TIME	RATE (BPM)		PUM	PS C	PRESSUR TUBING	E (PSI) CASING	DESCRIPTION OF OPERA	TION AND MATERIALS
	1900				_			ON LOCATEDN	
3) 									
								70-215'	SET = 215
								TP-215'	85/8-24 #
								IS CMT LEFT IN CASENG	
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	louis							-	
	1940				_			BREAK CORCULATION	
	1000							M 0 /	
	1950	5	36.3		4		100	Max Comest - 150 sks s	STADDARD 2% GEL 3% CC
	1920	14			_		2-0		
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	2100							JOB COMPLETE	
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QUALITY OILWELL CEMENTING, INC. Federal Tax I.D.# 20-2886107

Date 9-27-16 Sec. Twp. Range 20 County K State On Location 9 Finish 9 W AM Lease Iffeifer Well No. 1-26 Owner To Quality Olivell Cemoning, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed. Type Job Plan Tro. U 0800' Charge Duelling Olivell Cemoning, Inc. Type Job Plan Tro. U 0800' Charge Duelling Olivell Cemoning, Inc. Type Job Plan Tro. U 0800' Charge Duelling Olivell Cemoning, Inc. Tool Depth Street Street Duelling Olivell Cemoning, Inc. Charge Tool Depth U 0800' Charge Duelling Olivell Cemoning, Inc. Charge Tool Depth U 0800' Charge Duelling Olivell Cemoning, Inc. Charge Tool Depth U 0800' City State Common City Tool Depth Depth Common // 2 Common // 2 Common // 2 Punptix If No Cementary Common // 2 Poz. Mix / D 5 Common // 2 During Common // 2 So 5 X Sate Common // 2 Common // 2 <	Phone 785-483-2025 Cell 785-324-1041	Home Office	P.O. B	ox 32 Rus	sell, KS 67665	No	3013	}
Location Hacio caue elevator – 4 W, 3 S E/ Contractor D ⁰ SCOURT 4 3 Type Job Plue 77/8" T.D. 4080' Character for contractor to do work as listed. Hole Size Cag. Depth 4030' City State Tog. Size 4/8" D.P. Depth 4030' City State Tog. Size 4/8" D.P. Depth 4030' City State Tog. Size 4/8" D.P. Depth 4030' City State Common Contractor to do work as listed. Hole Size 5/8" Common Contractor	Date 9-27-16 Sec. 26	Twp. Range	Ru	County	KS	On Location	9.00	Am
Lease 142. Here Well No. 1-26 Owner Contractor D'SCOUESY A'3 Type Job Plue 771/8' T.D. 4080' Crarge Blue Fidge Reference on contractor to do work as listed. Cag. Depth Street and helper to assist owner or contractor to do work as listed. Cag. Depth Street To assist owner or contractor to do work as listed. Cag. Depth 4D32' City State Tool Depth 4D32' Common/62 Common/62 Bulkrik 21 No. Differer Fifth Poz. Mix / DS Bulkrik No. Differer Fifth 90 SX Sat Calcium 4D8 Services & REMARKS Hulls Remarks: 4D32' SO SX Sat Ret Hole 14/25' SO SX Sat Ret Hole 14/26' SO SX Ret Figure Reference Ret Reference Re	0.0		Locati	on Haca	calle elevo	tor - 4W	125	Els
Contractor D.9. SLOVETY A.3 Type Job D. Depth 4.3 Type Job D. Depth 4.3 Type Job D. Depth 4.5 Top. Size 777.8" T.D. 4080' Charge B.J. L.F. Table To contractor to do work as listed. Hole Size 777.8" T.D. 4080' Charge B.J. L.F. Table T. State Top. Size 78.4" D.9. Depth 4.0.3.2" Top. Size 78.4" D.9. Depth 4.0.3.2" Top. Size 78.4" D.9. Depth 4.0.3.2" Top. Size 78.4" D.9. Depth 4.0.3.2" The above was done to satisfaction and supervision of owner agent or contractor Cement Left in Csg. Shoe Joint Cement Amount Ordered D. O.9. W.	Lease Pteitfer	Well No.	26	Owner			1000	
Contract Contract <td< td=""><td>Contractor Descolleru</td><td>43</td><td></td><td>To Quality O</td><td>ilwell Cementing, Inc</td><td>•</td><td></td><td></td></td<>	Contractor Descolleru	43		To Quality O	ilwell Cementing, Inc	•		
TDC US PT78" TD. U080' Charge Bluefidge Refice Csg. Depth U32' Oty State Tool Depth U32' Oty State Tool Depth Depth The above was done to satisfaction and supervision of owner agent or contractor Cement Left in Csg. Shoe Joint Cement Amount Ordered DTD O/Yb. V/b. Value I Meas Line Displace H70/Mul SuA Odd Odd Value I Buiktrik No. Cementer For CL Poz. Mix / DS Diver Odd Value I Buiktrik No. Diver Common/6.2 Poz. Mix / DS Diver Odd Value I Buiktrik No. Diver Common/6.2 Poz. Mix / DS Diver Odd Odd Value I Buiktrik No. Diver Common/6.2 Poz. Mix / DS Diver Calcium Diver Calcium Calciu	Type lob Dluge			cementer an	d helper to assist ow	ner or contractor to c	ht and furnish do work as lis	ted.
Csg. Depth Street Tbg. Size YE Depth Upth YE Tool Depth The above was done to satisfaction and supervision of owner agent or contractor Cernent Left in Csg. Shoe Joint Cernent Amount Ordered Cold State Meas Line EQUIPMENT Common/62 Port Mark 100 State Pumptrk No. Deriver Port Mark 100 Calcium Buiktrk No. Deriver Port Mark 100 Calcium JOB SERVICES & REMARKS Hulls Sate Port Priver Buiktrk No. Deriver Calcium Deriver JOB SERVICES & REMARKS Hulls Sate Port Priver Buiktrk No. Deriver Calcium Deriver Mouse Hole 55 01 - 50 5X Kol-Seal Mod CLR 48 Centralizers Common 20 5X Mouse Hole So 5X Sand Mouse Hole 50 5X Colcium Centralizer Centralizer Baskets 60 '- 20 5X Mid CLR 48 Centralizer Centralizer Baskets	Hole Size 7'7/8"	т 4080'		Charge To	Bluefidge	Petroleu	m	and the second sec
Tog. Size Y & N, P, Depth Up 32' City State Tool Depth The above was done to satisfaction and supervision of owner agent or contractor Cement Left in Csg. Shoe Joint Cement Amount Ordered Shoe Joint Meas Line Diplace H70/MuA Sult Sult Pumptrix IN No. Cementer Root Poz. Mix / DS Buiktrix 21 Diverse Get. I/D Buiktrix No. Diverse Get. I/D Buiktrix No. Diverse Get. I/D DOP Ser Firm Get. I/D Diverse Buiktrix No. Diverse Get. I/D Dorser Calcium Calcium Calcium JOB SERVICES & REMARKS Hulls Hulls Remarks: 4D 32' 5D 5X Satt Mouse Hole 55 D' - 5D 5X Kol-Seal Contralizers 2/15' - 5D 5X Kol-Seal D/V or Port Collar Contralizer Baskets Dos 5X Handing </td <td>Csg.</td> <td>Depth</td> <td></td> <td>Street</td> <td>2</td> <td></td> <td></td> <td>148, 1946 B</td>	Csg.	Depth		Street	2			148, 1946 B
Tool Depth The above was done to satisfaction and supervision of owner agent or contractor Cement Left in Csg. Shoe Joint Cement Amount Ordered DTD Gol VA Yu Yu Ga Yu Yu Yu Ga Yu Yu Yu Ga Yu	Tbg. Size 4Kn D.P.	Depth 4032'		City		State		
Cernent Left in Csg. Shoe Joint Cernent Amount Ordered DTD G/W 4% Gut Viet X Meas Line Displace H70/Mult Sult EQUIPMENT Common/6 Z Portuge X Portuge X Pumptik 18 No. Cernenter Roll Portuge X Portuge X Portuge X Bulktrk 21 No. Driver Catourn Gel. Portuge X Bulktrk No. Driver Catourn Catourn Catourn JOB SERVICES & REMARKS Hulls Portuge X Portuge X Bulktrk No. Driver Co S X Salt Portuge X Remarks: H0 2/- So S X Salt Portuge X Mouse Hole S 50 1- So S X Flowseal Child Portuge X Mouse Hole S 0 5 X Mud CLR 48 Catourn Portuge X Portuge X D/V or Port Collar Port So S X Sand Portuge X Portuge X Portuge X Mease Hole Portuge X So S X Sand Portuge X Portuge X Portuge X D/V or Port Collar Portuge X Portuge X Portuge X Portuge X Portuge X Portuge X Port	Tool	Depth		The above wa	s done to satisfaction a	nd supervision of owne	er agent or con	tractor.
Meas Line Displace \$120/Muk Suk Pumptrk /8 No. Commenter for the period of the period	Cement Left in Csg.	Shoe Joint	9.54	Cement Amo	ount Ordered 27	0 60/40 40	ble V	4年76
EQUIPMENT Common/b Z Pumptrk /8 No. Cermenter 70 Poz. Mix / D S Bulktrk 21 No. Driver Poz. Mix / D S Bulktrk 21 No. Driver Gel. //D JOB SERVICES & REMARKS Hulls Remarks: 4032 - 50 SX Salt Mouse Hole 55 0 - 50 SX Kol-Seal Centralizers 24 S - 50 SX CFL-117 or CD110 CAF 38 D/V or Port Collar Drivel Driver JOB SX Moin schole 21 30 SX Sand Mileage Mileage Comest 4.00 Gel Since Guide Snoe Guide Snoe Guide Snoe Lach Down Lach Down Heiner	Meas Line	Displace HZO/	muh	Seal				
Pumptrk /// No. Heiper /// Poz. Mix // DS Bulktrk 21 No. Driver // Poz. Mix // DS Bulktrk No. Driver // Poz. Mix // DS Baskets DO / - SO SX Muld CLR 48 Baskets A AFU Inserts Poat SNO Latch Down Baskets A Pumptrk Charge Muld C	EQUIPM	IENT		Common	2			
Bulktrk 21 No. Driver 10 Gel. 12 Bulktrk No. Driver 20 Gel. 12 Bulktrk No. Driver 20 SX Caloum JOB SERVICES & REMARKS Hulls Remarks: 4032/- 50 SX Salt Rat Hole 1425 50 50 SX Flowseal 6744 Mouse Hole 550 - 50 SX Kol-Seal Centralizers 2451 - 50 SX Mud CLR 48 Baskets 60'- 20 SX CFL-117 or CD110 CAF 38 D/V or Port Collar 20 SX Sand Mileage FLOAT EQUIPMENT Guide Shoe Cement 100 Centralizer Baskets AFU Inserts Float Shoe Latch Down	Pumptrk 18 No. Cementer K	ick		Poz. Mix	08			44 i i i i i i i i i i i i i i i i i i
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JOB SERVICES & REMARKS Hulls Remarks: 403/2 50 5X Satt Rat Hole 14252 50 5X Flowseal 6714 Mouse Hole 50 5/2 Kol-Seal 6714 Centralizers 2457-505X Mud CLR 48 Baskets 601-205X CFL-117 or CD110 CAF 38 D/V or Port Collar Arthale 205X Mouse chole 1205X Hardling Mouse chole 1205X Hardling Comest 1205X Hardling Float	Bulktrk No. Driver	a Station 16 Description	· ·	Calcium		di teores de Galle	s /M र उल्लंब	al operations
Remarks: 4032-505X Salt Rat Hole 1425 505X Flowseal 674 Mouse Hole 5501-505X Kol-Seal Centralizers 2451-505X Mud CLR 48 Baskets 601-205X CFL-117 or CD110 CAF 38 D/V or Port Collar Centrale w/ 305X Sand Mouse chole w/ 305X Sand Mileage Comment dod Centralizer Baskets AFU Inserts Float Shoe Latch Down	JOB SERVICES	& REMARKS		Hulls				
Rat Hole 1425 ^b 50 5× Flowseal 67/4 Mouse Hole 5501- 50 5× Kol-Seal 6 Centralizers 2457- 50 5× Mud CLR 48 6 Baskets 601- 205× CFL-117 or CD110 CAF 38 6 D/V or Port Collar 601- 205× Sand 6 Mouse choice 1205× Sand 6 6 Mouse choice 1205× Handling 8 6 Mouse choice 1205× Handling 8 6 Coment Acd Crutiche FLOAT EQUIPMENT 6 Guide Shoe Centralizer 8 8 8 AFU Inserts Float Shoe 1 1 1 1 Each Down 1	Remarks: 4032-	SOSX	1. av	Salt		list of the down	a Keneli et	
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Baskets 60'- 20 SX CFL-117 or CD110 CAF 38 D/V or Port Collar (Lethbale w) 30 SX Sand Mousehole w) 20 SX Handling 80 Mileage Coment dod Circulate FLOAT EQUIPMENT Guide Shoe Centralizer Baskets AFU Inserts Float Shoe Latch Down	Centralizers 2451 -	SOSX		Mud CLR 48				
D/V or Port Collar Linhale 2 30 3X Sand Mousehole 2 30 3X Handling 80 Mileage Cement drod Criticulare FLOAT EQUIPMENT Guide Shoe Centralizer Baskets AFU Inserts Float Shoe Latch Down	Baskets 601-	20 SX		CFL-117 or (CD110 CAF 38		0.000.0000.00	
Mousehole Wiles Coment Acd Civide Shoe Centralizer Baskets AFU Inserts Float Shoe Latch Down	D/V or Port Collar Rathale	w] 30 5X	1	Sand				
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Baskets AFU Inserts Float Shoe Latch Down				Centralizer				
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DIAMOND TESTING P.O. Box 157 HOISINGTON, KANSAS 67544 (800) 542-7313 DRILL-STEM TEST TICKET FILE: PFFFR1-26DST1

TIME ON: 0245

TIME OFF: 0940

Company BLUE RIDGE PETROLEUM CORP.	Lease & Well No. PFEIFFER #1-26
Contractor DISCOVERY RIG 3	Charge to BLUE RIDGE PETROLEUM CORP.
Elevation 2120 KB Formation CHEROKEE	SAND Effective PayFt. Ticket NoM834
Date 9/26/2016 Sec. 26 Twp. 17	S Range 20 W County RUSH State_ KANSAS
Test Approved By	Diamond Representative MIKE COCHRAN
Formation Test No1 Interval Tested from	<u>3950 ft. to</u> <u>3990 ft.</u> Total Depth <u>3990 ft.</u>
Packer Depth 3945 ft. Size6 3/4 in.	Packer depth NA ft. Size_ 6 3/4 in.
Packer Depth 3950 ft. Size6 3/4 in.	Packer depth NA ft. Size6 3/4 in.
Depth of Selective Zone Set	
Top Recorder Depth (Inside) 3932 ft.	Recorder Number5448 Cap5,000 P.S.I.
Bottom Recorder Depth (Outside) 3952 ft.	Recorder Number0063_Cap5,000 P.S.I.
Below Straddle Recorder Depthft.	Recorder NumberCapP.S.I.
Mud TypeCHEMViscosity60	Drill Collar Length 31_ft. I.D 2_1/4 in.
Weight 9.6 Water Loss 7.2	_cc. Weight Pipe Length0_ft. I.D2 7/8 ir
Chlorides 3,300 P.P.M.	Drill Pipe Length 3887 ft. I.D 3 1/2 in
Jars: MakeSTERLINGSerial Number3	Test Tool Length 32 ft. Tool Size 3 1/2-IF in
Did Well Flow? NO Reversed Out NO	Anchor Length 40 ft. Size 4 1/2-FH ir
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH	in. Surface Choke Size1 in. Bottom Choke Size_5/8 in
Blow: 1st Open: SSB, BOB 19 MIN	(NO BB)
^{2nd Open:} WSB, BOB 15 MIN	(NO BB)
Recovered 245 ft. of VSOSGWM 40% WTR, 60% MUD W/	A VERY THIN SCUM OF OIL, & SOME GASSY BUBBLES
Recovered200 ft. of VSOSGMW 94% WTR, 6% MUD W/ /	A VERY THIN SCUM OF OIL, & SOME GASSY BUBBLES
Recovered 445 ft. of TOTAL FLUID	
Recoveredft. of	
Recoveredft. of CHLOR: 22,000 PPM	Price Job
Recoveredft. of _RW: .41 @ 62 DEG	Other Charges
Remarks: PH: 70	Insurance
TOOL SAMPLE: 99% WTR, 1% MUD W/ A VERY THIN SCUM	OF OIL, GASSY ODOR Total
Time Set Packer(s) 4:45 A.M. P.M. Time Started O	ff Bottom 7:30 A.M. P.M. Maximum Temperature 118°F
Initial Hydrostatic Pressure	(A) <u>1960</u> P.S.I.
Initial Flow Period Minutes	30 (B) 17 P.S.I. to (C) 117 P.S.I.
Initial Closed In Period	45 (D) 599 P.S.I.
Final Flow Period Minutes	30 (E) <u>124</u> P.S.I. to (F) <u>211</u> P.S.I.
Final Closed In PeriodMinutes	60 (G) 599 P.S.I.
Final Hydrostatic Pressure	(H) 1961 P.S.I.

Diamond Testing shall not be liable for damages of any kind to 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 statement or opinion concerning the result 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.

DIAMOND TESTING

General Information

Company Name	BLUE RIDGE PETROLEUM CORP. Job Number	M834
Well Name	PFEIFFER #1-26 Representative	MIKE COCHRAN
Unique Well ID	DST#1 3950-3990 CHEROKEE SAND Well Operator	BLUE RIDGE PETROLEUM CORP.
Surface Location	SEC.26-17S-20W RUSH CO.KS. Report Date	2016/09/26
Field	WILDCAT Prepared By	MIKE COCHRAN
Well Type	Vertical Qualified By	JEFF LAWLER
	Test Unit	NO. 3

Test Information

Test Type		CONVENTIONAL
Formation	DST#1	3950-3990 CHEROKEE SAND
Test Purpose (AEUB)		Initial Test

Start Test Date	2016/09/26 Start Test Time	02:45:00
Final Test Date	2016/09/26 Final Test Time Well Fluid Type	09:40:00
	weit Fluid Type	01 011

5448

Gauge Name Gauge Serial Number

Test Results

Remarks **RECOVERED**:

245' VSOSGWM 40% WTR, 60% MUD W/ A VERY THIN SCUM OF OIL, & SOME GASSY BUBBLES 200' VSOSGMW 94% WTR, 6% MUD W/ A VERY THIN SCUM OF OIL, & SOME GASSY BUBBLES 445' TOTAL FLUID

CHLOR: 22,000 PPM PH: 7.0 RW: .41 @ 62 DEG

TOOL SAMPLE: 99% WTR, 1% MUD W/ A VERY THIN SCUM OF OIL, GASSY ODOR

BLUE RIDGE PETROLEUM CORP. DST#1 3950-3990 CHEROKEE SAND Start Test Date: 2016/09/26 Final Test Date: 2016/09/26

PFEIFFER #1-26 Formation: DST#1 3950-3990 CHEROKEE SAND Pool: WILDCAT Job Number: M834



BRP	C	-	
BlueRi	dge Petroleum Corporation	AL	
P.O. B0	x 30545		
Edmon	1, OK 73003		
(580) 2	42-3732		
	Scale 1:240 Imperi	al	
Well Name:	PFEIFFER #1-26		
Surface Location: Bottom Location:	NE NE SW NW Section 26 -	175 - 2000	
API:	15-165-22135-00-00		
License Number:	31930	— ,	
Spud Date: Region:	9/20/2016 RUSH COUNTY	lime:	1:15 PM
Drilling Completed:	9/26/2016	Time:	6:04 PM
Surface Coordinates:	1616' FNL & 1303' FWL		
Ground Elevation	2112 00ft		
K.B. Elevation:	2120.00ft		
Logged Interval:	3100.00ft	To:	4080.00ft
Formation:	LANSING - KANSAS CITY: C	HEROKEE SAND)
Drilling Fluid Type:	FRESH WATER / CHEMICAL	GEL	
Company:	BLUE RIDGE PETROLEUM	CORPORATION	
Address:	P.O. BOX 30545		
	EDMOND, OK 73003		
Contact Geologist:	JON ALLEN		
Contact Phone Nbr:	(580) 242-3732		
Location:	NE NE SW NW Section 26 -	17S - 20W	
API:	15-165-22135-00-00		
Pool: State:	KANSAS	Field:	
		Country.	037
	SURFACE CO-ORDIN	ATES	
Well Type:	Vertical		
Longitude:	-99.5074654 38.5485168		
N/S Co-ord:	1616' FNL		
E/W Co-ord:	1303' FWL		
	LOGGED BY		
	,	t	
	1	#	
		N	
		λL.	
	Т	KT	
-			
	DIC COPPU		
‡ ا	DRJ LACIA		
ب بر			
Company:	BIG CREEK CONSULTING, I	NC.	

Phone Nbr:	(785) 259-3737
Logged By:	GEOLOGIST

ELLIS, KS 67637

Name: JEFF LAWLER

	ACTOR
Rig #: 3	
Rig Type: MUD ROTARY	Time: 1:15 PM
TD Date: 9/26/2016	Time: 6:04 PM
Rig Release: 9/27/2016	Time: 9:00 PM
ELEVA	TIONS
K.B. Elevation: 2120.00ft	Ground Elevation: 2112.00ft
K.B. to Ground: 8.00ft	
FON	TES
WELL COMPA	
X RAYMOND OIL	P&A 10-11 ¥ GRAND MESA OPERATING REIF OIL & GAS CO. LEBEN DRILING
PFEIFFER#1 PFEIFFER#1-26 NE NE 26-17-20	MORAN 31-23 RYAN #1 GLENN #1 NW NE SE NE 23-17-20 SW SE NW 28-17-20 NW NW NW 36-17-20
KB 2120 GL 2112 KB 2138 LOG TOPS SAMPLETOPS COMP. CARD LOG SMPL	KB 2161 KB 2178 KB 2126 LOGS LOG SMPL LOGS LOG SMPL COMP.CARD LOG SMPL
ANHYDRITE TOP 1341 779 1342 778 C	DEPTH DATUM CORR. CORR. DEPTH DATUM CORR. DEPTH DATUM CORR. CORR. <th< td=""></th<>
BASE 13/1 749 13/4 745 TOPEKA 3200 -1080 3200 -1080 3203 -1065 - 15 - 15 HEEBNER HALE 3501 -1381 3502 -1382 3502 -1382 13 -	1421 740 + b -
TORONTO 3519 -1399 3519 -1399 3522 -1384 - 15 - 15 IKC 3545 -1425 3544 -1424 3550 -1412 - 13 - 13 - 13 - 13 - 13 - 13 - 13 - 13 - 13 - 13 - 13 - 13 - 13 - 13 - 13 - 13 - 14 - 13 - 14 -	3542 -1381 - 18 - 16 3629 -1451 + 26 + 27 3526 -1400 + 1 + 1 3542 -1381 - 18 - 16 3629 -1451 + 26 + 27 3526 -1400 + 1 + 1 3569 -1408 - 16 3629 -1451 + 26 + 27 3556 -1400 + 1 +
BKC 3817 -1697 3822 -1702 3829 -1691 - 6 - 11 PAWNEE 3910 -1790 3910 -1790 3918 -1780 - 10 -	3838 -1677 - 20 - 25 3896 - 1718 + 21 + 16 3830 - 1704 + 7 + 2 3924 -1763 - 27 - 27 3997 - 1819 + 29 -
CHEROKEE SAND 3977 -1857 3967 -1847 3968 -1830 - 27 - 17 MISSISSIPPIAN Image: Constraint of the second sec	3990 -1829 - 28 - 18 4064 -1886 + 29 + 39 - - - - - - - - - - - - 39 -
ARBUCKLE 4033 -1913 4032 -1912 Image: Constraint of the second	4040 -1879 - 34 - 33 - - 4 - 3 4100 -1939 - 32 - 21 4100 -1962 - 9 + 2 4075 -1949 - 22 - 11
DST #1 CHEROKEE	SAND 3950' - 3990'
20	
DIAMO	ND TESTING Box 157 TIME ON: 0245
HOISINGTO	N, KANSAS 67544
DRILL-STE	M TEST TICKET
FILE: PFFF	R1-26DST1
Company_BLUE RIDGE PETROLEUM CORP.	Lease & Well No. PFEIFFER #1-26
Contractor DISCOVERY RIG 3	Charge to BLUE RIDGE PETROLEUM CORP.
Elevation2120 KBFormationCHEROKEE SA	ND Effective PayFt. Ticket NoM834
Date <u>9/26/2016</u> Sec. <u>26</u> Twp. <u>17</u> S	Range20 W CountyRUSHStateKANSAS
Test Approved By JEFF LAVVLER	Diamond Representative MIKE COCHRAN
Formation Test No. 1 Interval Tested from	3950 ft. to 3990 ft. Total Depth 3990 ft.
Packer Depth 3945 ft. Size6 3/4 in.	Packer depth NA ft. Size6 3/4 in.
Packer Depth 3950 ft. Size6 3/4 in.	Packer depth NA_ft. Size6 3/4 in.
Depth of Selective Zone Set	
Top Recorder Depth (Inside) 3932 ft.	Recorder Number5448 Cap5,000 P.S.I.
Bottom Recorder Depth (Outside)ft.	Recorder Number0063_Cap5,000_P.S.I.
Below Straddle Recorder Depthft.	Recorder NumberCapP.S.I.
Mud Type CHEM Viscosity 60	_ Drill Collar Length31 ft. I.D2 1/4 in.
Weight 9.6 Water Loss 7.2 c	c. Weight Pipe Length 0 ft. I.D. 2 7/8 in
Chlorides 3,300 P.P.M.	Drill Pipe Length 3887 ft. I.D 3 1/2 in
Jars: Make STERLING Serial Number 3	_ Test Tool Length 32 ft. Tool Size3 1/2-IF in
Did Well Flow? NO Reversed Out NO	_ Anchor Length 4U ft. Size 4 1/2-FH in
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in	Surface Choke Size 1 in. Bottom Choke Size 5/8 in

Main Hole Size 7 7/8 Tool Joint Size Blow: 1st Open: SSB, BOB 19 MIN

4 1/2 XH in. Surface Choke Size (NO BB)

^{2nd Open:} WSB, BOB 15 M	lin	1)	NO BE	3)				
Recovered 245 ft. of VSOSGWN	1 40% WTR, 60% M	UD W/ A VE	RY TH	IN SCUM OF OIL,	& SOME	GASSY B	UBBLES	
Recovered 200 ft. of VSOSGMV	V 94% WTR, 6% MU	D W/ A VEF		N SCUM OF OIL, 8	& SOME	GASSY BU	BBLES	
Recovered 445 ft. of TOTAL FL	UID							
Recoveredft, of								
Recoveredft. of CHLOR: 22	2,000 PPM					Price Job		
Recoveredft. of RW: .41 (@ 62 DEG					Other Cha	rges	
Remarks: PH: 70						Insurance		
TOOL SAMPLE: 99% WTR, 1% MU	D W/ A VERY THIN	SCUMOF	DIL, GA	SSY ODOR		Total		
TOOL SAMPLE: 99% WTR, 1% MUI Time Set Packer(s) 4:45 A.M.	D W/ A VERY THIN A.M. _P.M. Time Sta	SCUM OF C	DIL, GA	SSY ODOR 7:30 A.M. P.N	И. И. Ма	Total ximum Tem	perature _	118°F
TOOL SAMPLE: 99% WTR, 1% MUI Time Set Packer(s)4:45 A.M. nitial Hydrostatic Pressure	D W/ A VERY THIN A.M. P.M. Time Sta	SCUM OF C	DIL, GA	SSY ODOR 7:30 A.M. P.N 1960	м. И. Ма 0_P.S.I.	Total ximum Tem	perature _	118°F
TOOL SAMPLE: 99% WTR, 1% MUI Fime Set Packer(s) 4:45 A.M. nitial Hydrostatic Pressure	D W/ A VERY THIN A.M. P.M. Time Sta	SCUM OF C arted Off Bott 30	DIL, GA tom (A) (B)	SSY ODOR 7:30 A.M. P.M 1960 1	M. M. Ma 0 P.S.I. 7 P.S.I. te	Total ximum Tem o (C)	perature _ 117	118°F 7_P.S.I.
TOOL SAMPLE: 99% WTR, 1% MUI Time Set Packer(s) 4:45 A.M. nitial Hydrostatic Pressure nitial Flow Period nitial Closed In Period	D W/ A VERY THIN A.M. P.M. Time Sta Minutes Minutes	SCUM OF C arted Off Bott 30 45	DIL, GA tom (A) (B) (D)	SSY ODOR 7:30 A.M. P.N 1960 1 599	M. M. Ma <u>O</u> P.S.I. 7_P.S.I. to 9_P.S.I.	Total ximum Tem o (C)	perature _ 117	118°F 7_P.S.I.
TOOL SAMPLE: 99% WTR, 1% MUI Fime Set Packer(s) 4:45 A.M. nitial Hydrostatic Pressure. nitial Flow Period. Final Flow Period.	D W/ A VERY THIN A.M. P.M. Time Sta Minutes Minutes Minutes	SCUM OF C arted Off Bott 30 45 30	DIL, GA tom (A) (B) (D) (E)	SSY ODOR 7:30 A.M. P.M 1960 1 599 124	M. M. Ma <u>0</u> P.S.I. to <u>9</u> P.S.I. to <u>4</u> P.S.I. to	Total ximum Tem c (C)	perature _ 117 211	118°F 7_P.S.I. _P.S.I.
TOOL SAMPLE: 99% WTR, 1% MUI Fime Set Packer(s) 4:45 A.M. nitial Hydrostatic Pressure nitial Flow Period Final Flow Period Final Flow Period	D W/ A VERY THIN A.M. P.M. Time Sta Minutes Minutes Minutes Minutes Minutes	SCUM OF C arted Off Bott 30 45 30 60	DIL, GA tom (B) (D) (E) (G)	SSY ODOR 7:30 A.M. P.M 1960 1 599 124 599	M. M. Ma <u>O</u> P.S.I. <u>7</u> P.S.I. to <u>9</u> P.S.I. to <u>9</u> P.S.I. to	Total ximum Tem o (C) 0 (F)	perature _ 117 211	118°F 7_P.S.I. _P.S.I.







Sn- Gray, soft & gummy

Lm- Cream Buff Tan, FXLN, fsl w/ crinoids, well cemented w/ sctrd XLN porosity, tight

Lm- Cream Tan, FXLN, fsl, well cemented, sctrd XLN & secondary reXLN porosity

Sh- Gray Maroon Green, soft & silty, gritty & earthy, some sI sandy

Sh- Gray, silty & soft, chalky, gummy & argillaceous, dense & waxy

TOPEKA 3200' (-1080) E-LOG 3200' (-1080) Lm- Tan, VF-FXLN, dense, well cemented, fsl w/ few fsl fragments, poorly dev. w/ sctrd micro XLN porosity

Lm- Cream Off White, VF-FXLN, dense, well cemented, tight w/ poory vis. porosity, several chalky $\ensuremath{\mathsf{pcs}}$

Lm- Cream Off White, FXLN, fsl, well cemented, sctrd XLN porosity, clean & barren

Lm- A/A

Lm- Buff Gray, VFXLN, dense, well cemented, tight w/ min. vis. porosity

Lm- Cream Off White Buff, VF-FXLN, dense, well cemented, sl fsl, poorly dev. w/ sctrd micro XLN porosity, barren

Lm- Off White Cream, VFXLN, dense, tight, well cemented, several clumps of white chalk

Lm- Cream Gray, FXLN, fsl, poorly dev. & mostly tight, vry clean & barren, several pcs of gray sl cherty Ls w/ fusulinids, no vis. porosity

Lm- Cream, FXLN, densely packed fsl & fsl fragments, loosely cemented & crumbly, dense XLN porosity

Lm- White, Vf Grn, gummy white chalk

Lm- Cream, FXLN, loosely cemented & crumbly, fsl, dense XLN porosity, barren

Lm- Gray White, CryptoXLN & Vf Grn, mix of fusulinid packed vitreous cherty Ls & gummy white chalk

Lm- Cream Off White, FXLN, dense, loosely cemented, massive, fsl w/ fsl fragments, high-energy mix, poor vis. porosity, sl chalky in part

Sh- Black Gray Maroon, fissile & carbonaceous, silty & calcareous



6 6

6 6

Lm- Cream Tan, VFXLN, dense, well cemented, tight w/ min. vis. porosity, few w/ sctrd reXLN veins

Sh- Gray Maroon Green, semi-waxy, gritty & earthy

Lm- Cream, FXLN, dense, massive, mod. well dev. w/ sctrd fn ppt porosity & some sctrd reXLN porosity, barren

Lm- Cream Off White, FXLN, dense XLN porosity, some secondary reXLN porosity, fsl w/ fusuilinids, mottled, barren

Lm- Buff, FXLN, loosely cemented, dense XLN porosity, fsl & bioclastic, sl trashy

Lm- Tan, FXLN, dense XLN porosity, semi-graunular, mod. dev. barren

Sh- Black Gray, fissile & carbonaceous, soft & silty

Lm Snd- Cream, FXLN, massive dolomitic Ls, oolitic, mod. dev. w/ sctrd fn ppt & XLN porosity, loosely cemented, consolidated & well sorted sub rounded frosted Ss, barren

Lm- Cream, VF-FXLN, A/A less developed w/ sctrd XLN porosity, soft white chalk

Lm- Gray Milky White Tan, VFXLN, dense, fsl cherty Ls w/ no vis. porosity

Lm- White, abundant soft white chalk

Lm- Off White, FXLN, oomoldic w/ sctrd vuggy porosity, barren

Lm- Cream, F-MEDXLN, fsl w/ fusulinids, massive, gritty sl dolomitic Ls, well cemented, dense consistent porosity, barren

Lm- Cream Tan, VFXLN, dense, well cemented, mostly tight w/ poor vis. porosity, some sctrd mottling, soft white chalk

HEEBNER 3503' (-1383) E-LOG 3501' (-1381) Sh- Black, fissile & carbonaceous

TORONTO 3519' (-1399) E-LOG 3519' (-1399) Lm- Cream White, FXLN, sl fsl, poorly dev. & mostly tight w/ much soft white chalk, vry clean & barren, several pcs of vitreous fresh bedded chert

Lm- Buff, VFXLN, dense, well cemented, tight w/ min. vis. porosity

Sh- Gray Maroon Green, argillaceous clumps, gritty & earthy

LKC 3544' (-1424) E-LOG 3545' (-1425) Lm- Cream Off White, FXLN, fsl, poorly dev. w/ sctrd XLN porosity, some soft white chalk

Lm- Buff White, VF-FXLN, dense, well cemented sI dolomitic Ls w/ sctrd XLN porosity, much soft white chalk



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Lm- Tan Buff, FXLN, oomoldic w/ sctrd vuggy & XLN porosity, barren, few pcs of vitreous white oolitic chert

Lm- Cream Off White, FXLN, dense gritty well cemented dolomitic Ls w/ microXLN porosity, soft white chalk, barren

Lm- Cream Buff, VF-FXLN, dense, well cemented, poorly dev. w/ microXLN-XLN porosity, barren

Lm- Gray, VFXLN, dense, well cemented, tight w/ min. vis. porosity

Lm- Cream Off White, FXLN, dense, well cemented, mostly tight w/ sctrd XLN porosity, some soft white chalk

Lm- Tan, VFXLN, dense, well cemented, tight, sctrd XLN & reXLN porosity, barren

Lm- Cream off White, FXLN, fsl, poorly dev. w/ sctrd XLN porosity, some soft white chalk

Lm- Cream Off White, VF-FXLN, dense, well cemented, tight w/ poor vis porosity, some soft white chalk

Lm- Off White, Fn Grn, loosely cemented chalky mud supported matrix, poor vis. porosity

Lm- Cream Off White, VF-FXLN, dense, tight, well cemented, poor vis. porosity

Lm- Cream, VFXLN, tight & well cemented cherty Ls w/ sctrd microXLN porosity, several pcs of milky white & gray vitreous fresh bedded chert

Lm- Tan, VF-FXLN, dense, well cemented, tight bioclastic w/ fusulinid & crinoid fragments, sctrd to dense XLN porosity

Sh-Black Gray, fissile & carbonaceous, girtty & earthy

Lm- Cream Off White, VF-FXLN, dense, well cemented, mostly tight & poorly developed w/ sctrd XLN porosity, vry clean & barren

Lm- Cream Buff, VFXLN, dense, well cemented, tight w/ min. vis. porosity, some soft white chalk

Sh- Gray Maroon, silty & soft, gritty & earthy

Lm- Cream, FXLN, oolitic, few sctrd dissolved oolites, sctrd fn ppt & XLN porosity, barren

Sh- Gray Maroon, waxy, gritty & earthy

Lm- Cream Off White, FXLN, dense, well cemented, barren, some soft white chalk

Lm- Cream Off White, FXLN, dense, well cemented, poorly dev. w/ min. vis. porosity

Sh- Dove Gray Maroon, soft & calcareous, argillaceous wash

Lm- Tan, VFXLN, tight, dense, well cemented, poor vis. porosity



Sh- Gray Maroon, gritty & earthy, semi-waxy

Lm- Tan Milky Gray, VFXLN, dense well cemented cherty Ls w/o vis. porosity

Lm- Tan, FXLN, dense, vry well cemented, tight, sctrd reXLN porosity

BKC 3822' (-1702) E-LOG 3817' (-1697) Sh- Gray Maroon, semi waxy & sl arenaceous, gritty & earthy

Lm- Cream Tan, VF-FXLN, dense, well cemented & mostly tight w/ min. vis. - sctrd micro XLN porosity

Sh- Gray Maroon Mint Green, gritty & earthy, pebbly, waxy

Lm- Brown Tan Cream, trashy mix, some sl fsl, some detrital mix, massive, all w/ poor vis. porosity

Sh/Chert- Gray Maroon, gritty & earthy, sl arenaceous Salmon/White, detrital gritty chert

A/A w/ increase in Salmon virtreous chert & salmon/white dolotmitic chert

Sh- Varying shades of Gray & Purple, mostly sl waxy, some sl arenaceous

ALTAMONT 3889' (-1769) E-LOG 3889' (-1769) Lm- Buff, VFXLN, dense, gritty, well cemented & tight w/ no vis. porosity

Lm- Cream Off White, VFXLN, dense, well cemented, dolomitic chert

Sh- Gray Maroon, semi waxy, gritty & earthy

PAWNEE 3910' (-1790) E-LOG 3910' (-1790) Lm- Cream Off White, FXLN, loosely cemented dolomitic Ls, semi granular

Lm- Gray Cream, Vf-Fn Grn, loosely to well cemented, mostly tight, intergranular porosity, clean & barren

SHORT TRIP SURVEY 1 1/2 deg DST #1 3950 - 3990

CHEROKEE SAND 30-45-30-60 445' TOTAL FLUID 245' VSOSGWM

(40%W, 60%M, TR OIL & GAS)

200' VSOSGMŴ (94%W, 6%M,

TR OIL & GAS)

HYD: 1960-1961#

Rw: .41 @ 62 deg.

CHER_S.

SIP: 599-599#

CHLOR: 22K

Lm- Gray, Vf- Fn Grn, dense, well cemented & tight w/ no vis. porosity

Lm- A/A

Sh- Black Gray Maroon, fissile & carbonaceous, waxy, gritty & earthy

Sh- Gray, argillaceous

CHEROKEE SAND 3967' (-1847) E-LOG 3977' (-1857) Ss- Few frosted, small to med. grained clusters, well cemented angular to sub-rounded, poorly sorted, consolidated. varying from light Ca cementation to arenaceous Is & sandy shale Ss- Frosted-Clear, F-Med Grn, consolidated, poorly sorted, sub-rounded to subangular, mod cementation, TR STN, TR FO UPON CRUSH, LT YLW STRM CUT, NO ODR

60"- A/A, better sorting of shape and angularity, few w/ micro glauconite inclusions, TR STN, SL SHEEN UPON CRUSH, LT YLW FLOR.,NO ODR

Sh- White Maroon, gummy argilaceous clumps



