KOLAR Document ID: 1571162

Confidentiality 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 - DESCRIPTION OF WELL & LEASE

OPERATOR: License #	API No.:
Name:	Spot Description:
Address 1:	
Address 2:	Feet from North / South Line of Section
City:	Feet from
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	GPS Location: Lat:, Long:, (e.g. xx.xxxxx)
Name:	Datum: NAD27 NAD83 WGS84
Wellsite Geologist:	County:
Purchaser:	Lease Name: Well #:
Designate Type of Completion:	Field Name:
☐ New Well ☐ Re-Entry ☐ Workover	Producing Formation:
☐ Oil ☐ WSW ☐ SWD	Elevation: Ground: Kelly Bushing:
☐ Gas ☐ DH ☐ EOR	Total Vertical Depth: Plug Back Total Depth:
☐ OG ☐ GSW	Amount of Surface Pipe Set and Cemented at: Feet
CM (Coal Bed Methane)	Multiple Stage Cementing Collar Used? Yes No
Cathodic Other (Core, Expl., etc.):	If yes, show depth set: Feet
If Workover/Re-entry: Old Well Info as follows:	If Alternate II completion, cement circulated from:
Operator:	feet depth to:w/sx cmt.
Well Name:	leet depth to sx cmt.
Original Comp. Date: Original Total Depth:	
Deepening       Re-perf.       Conv. to EOR       Conv. to SWD         Plug Back       Liner       Conv. to GSW       Conv. to Producer	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
□ 0 · · · · · · · · · · · · · · · · · ·	Chloride content: ppm Fluid volume: bbls
☐ Commingled     Permit #:	Dewatering method used:
SWD Permit #:	Location of fluid disposal if hauled offsite:
EOR Permit #:	Location of fluid disposal if fladied 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 ☐ Drill Stem Tests Received
Geologist Report / Mud Logs Received
UIC Distribution
ALT I II III Approved by: Date:

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#### Page Two

Operator Name:					Lease Nam	ne:			Well #:	
Sec Tw	rpS	S. R	Eas	st West	County:					
	l, flowing an	d shut-in pres	sures, wh	ether shut-in pre	ssure reached	static	level, hydrostat	ic pressures, bo		val tested, time tool erature, fluid recovery,
Final Radioactivi files must be sub							gs must be emai	led to kcc-well-l	ogs@kcc.ks.gov	v. Digital electronic log
Drill Stem Tests (Attach Addit		)		Yes No		Lo		n (Top), Depth a		Sample
Samples Sent to	Geological	Survey		Yes No		Name			Тор	Datum
Cores Taken Electric Log Run Geologist Report List All E. Logs F	t / Mud Log	s		Yes No Yes No Yes No						
			Rep	CASING	RECORD [	Nev		on, etc.		
Purpose of St	tring	Size Hole Drilled		Size Casing let (In O.D.)	Weight Lbs. / Ft.		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
				ADDITIONAL	CEMENTING /	SQUE	EEZE RECORD		<u>'</u>	
Purpose: Perforate		Depth Top Bottom	Тур	pe of Cement	# Sacks Use	ed		Type and	Percent Additives	
Protect Ca										
Plug Off Z										
Did you perform     Does the volume     Was the hydraul	e of the total	base fluid of the	hydraulic	fracturing treatment		-	Yes yes Yes	No (If No, s	kip questions 2 ar kip question 3) ill out Page Three	
Date of first Produ Injection:	ction/Injectio	n or Resumed P	roduction/	Producing Meth	od:		Gas Lift O	ther <i>(Explain)</i>		
Estimated Product Per 24 Hours		Oil	Bbls.		Mcf	Water			Gas-Oil Ratio	Gravity
DISPO	OSITION OF	GAS:		N	METHOD OF CO	MPLET	ΓΙΟΝ:			DN INTERVAL: Bottom
Vented		Used on Lease		Open Hole		Dually ( Submit A		nmingled nit ACO-4)	Тор	BOLLOTTI
,	ed, Submit AC							·		
Shots Per Foot	Perforation Top	on Perfor Bott		Bridge Plug Type	Bridge Plug Set At		Acid,		ementing Squeeze and of Material Used)	
TUBING RECORI	D: S	Size:	Set A	: -	Packer At:					

Form	ACO1 - Well Completion
Operator	Castelli Exploration, Inc.
Well Name	MERRILL RANCH 1-27
Doc ID	1571162

### Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Conductor	30	20	52.73	69	GROUT	8	2% cc 7 yards
Surface	12.250	13.375	48	325	60/40 poz	250	H-lite3% cc, 1/4# cellflake
Intermedia te	12.250	8.625	24	1238	Acon	660	2% cc/ 3% cc
Production	7.875	5.5	15.5	4955	HLong	160	3% gel, 1/4# floce, scavenger 10% salt, 5% calset, .3% FR, .3% FLR- 322, .75%GB



CEMENT	TRE	TMENT	r REPO	RT							
				ORATION	Well:	MERRI	ILL RANCH #1-27	Ticket	EP1208		
City. S	tate:	COLDWA	ATER K	s	County:	COI	MMANCHE, KS	Date:	1/6/2021		
	Repi				S-T-R:		27/33S/16W	Service:	SURF		
Down	hole Ir	formatio	n		Calculated Sk	urry - Lead		Calcu	lated Slurry - Tail		
Hole	Size:	17.5	in		Blend: H	LITE 3%CAL.2	ACEL	Blend:	60/40/2 pozmix		
Hole D	epth:	328	ft		Weight:	12.8 ppg		Weight:	14.8 ppg		
Casing	Sizer	13 3/8	in		Water Sx:	9.8 gal /		Water Sx:	5.2 gal / sx		
Casing D	epth:	322	ft		Yield:		1.84 ft <sup>3</sup> / sx Yield: 1.21 ft <sup>3</sup> / sx				
Tubing (			in		Annular Bbis Ft.:	bbs /	71-	Annular Bbls Ft.: Depth:	bbs / ft. ft		
	epth:		ft		Depthi	*		Annular Volume:	0 bbls		
Too! Pa		_	_		Annular Volume:	0.0 bbis		Excess:			
Taa! D			ft		Excess:	40.9 bbls		Total Sierry:	26.9 bbls		
Displace	ment:	47.7		T0741	Total Slurry: Total Sacks:	125 sx		Total Sacks:	125 sx		
TIME	RATE	PS)	STAGE BBLs	TOTAL BBLs !	REMARKS	120 300					
400PM					ARRIVE ON NLOCATION	N					
					JSA AND RIG UP						
	3.0	100.0	5.0	5.0	ESTABLISH CIRCULATI	ION WITH H20					
				5.0							
	4.0	400.0	40.9	45.9	GO TO CEMENT RUNNI	ING 125SX LEAD					
				45.9							
	4.0	400.0	26.9	72.8	FOLLOWED BY 125SAC	CKS TAIL					
				72.8				<u> </u>			
	4.0	400.0	47.7	120.5	GO STRAIGHT TO DISP	PLACEMENT					
	<u> </u>		ļ	120.5			W TO DIT 100 10 KG				
630PM	<u> </u>		_	120.5	CLOSE IN WELL HEAD	10 BBLS SLUKK	17 1U PR = 305ACR5				
	├			120,5							
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				120.5							
		CREV	٧		UNIT			SUMMAR			
Denie ten CORBIN		93		Average Rate	Average Pressure	Total Fluid					
Punn Coerator <b>KEVIN</b>		135/218		3.8 bpm	325 psi	121 bbis					
	Eu - 71		en de		187/537						
8. + #1			<u> </u>		<del> </del>		<u> </u>				



CEMENT	TRE	ATMENT	REP	ORT							
Custo	mer	CASTELL	I FYPI	LORATION	Well:	MF	RRILL RANCH 1-27	Ticket:	WP 1077		
City, S					County:		COMANCHE,KS	Đạte:	1/8/2021		
		RICK PO	PP		S-T-R: 27-33S-16W Service: 8 5/8" SURFAC						
Down	hole li	nformatio	7		Calculated Slu				ated Slurry - Tail		
Hole	Size:	12 1/4	in.		Blend:	H- CO	N	Blend:	COMMON		
Hole D	eptha	1245	řt.		Weight:	11.6 pg		Weight:	15.6 ppg		
Casing	Size:	8 5/8	in	24#	Water   Sx:	16.8 gs		Water Sx: Yield:	5.2 gal / sx		
Casing D	opth:	1237.78	Pt		Yield:				1.20 ft <sup>3</sup> / sx		
Tubing L			ín		Annular Bbls Ft.:		bs / ft.	Annular Bbls Ft.:	bbs / ft.		
		1195.62	R		Depth:	ft		Depth:	ft		
Too! / Pa					Annular Volume:	0.0 Ы	bis	Annular Volume:	0 bbls		
Tool D			ft		Excess		<u> </u>	Excess.	42.7 bbis		
Displacer	nenti	76.0			Total Slurry:	91.0 M		Total Sacker	200 sx		
TIME	RATE		STAGE BBLs		Total Sacks: REMARKS	185 ti	X	Total Sacks:	200 PA		
11:45PM		. 3/			ON LOCATION - SPOT E	OUIPMENT					
12:00AM				<u> </u>	RIG UP						
1:15AM					RUN 29 JTS. 8 5/8" X 24	# CASING					
1,140-44-				h	BASKETS- 22, 23						
4:20AM					CASING ON BOTTOM						
4:30AM			80.0	80.0		FILL CASING	WITH H2o WITH RIG PU	MP			
4:42AM	5,0	100.0	91.0	171.0	MIX 185 SKS. H-CON @						
4:0CAM	5.0	100.0	42.7	213.7	MIX 200 SKS COMMON						
4:08AM				213.7	SHUT DOWN- DROP T.F						
4:10AM	4.0	-		213.7	START DISPLACEMENT						
4:28AM	3.0	100.0	70.0	283.7	SLOW RATE						
4:30AM	3.0	350.0	76.0	359.7	PLUG DOWN - CLOSE I	N AT MANIFO	NLD				
4:40AM	1.5		6.3	365.0	MIX 25 SKS COMMON V	VI 2% CC @ 1	15.6 PPG - PUMP DOWN	BETWEEN CONDUCTOR A	ND SURFACE PIPE		
4:45AM				365.0	WASH UP PUMP TRUCK	K - LET SET 1	TILL SAMPLE HARDENS				
6:00AM	2.0		26.8	391.8				BETWEEN CONDUCTOR			
8:00AM	1.0		5.3	397.1	MIX 25 SKS COMMON V	NI 2% CC @ 1	15.6 PPG - PUMP DOWN	BETWEEN CONDUCTOR A	ND SURFACE PIPE		
9:00AM	1.0		5.3	402.4				BETWEEN CONDUCTOR A			
9:45AM	1.0		5.3	407.7				BETWEEN CONDUCTOR A			
10:00AM	1.0		5.3	413.0				BETWEEN CONDUCTOR A			
11:00AM	1.0	<u> </u>	5.3	418.3	MIX 25 SKS COMMON (	15.6 PPG -	PUMP DOWN BETWEEN	BETWEEN CONDUCTOR A	ND SURFACE PIPE		
		<b>↓</b>		418.3	CEMENT TO SURFACE						
11:30AM		<b>_</b>		418.3	WASH UP PUMP TRUC	K - LET SET	TILL SAMPLE HARDENS				
	<u> </u>	<del>                                     </del>	ļ	418.3	JOB COMPLETE,						
		<b>↓</b>	<b></b>	418.3	THANKS- KEVEN AND	CREW					
	<u> </u>	<u> </u>	<u> </u>	418.3							
	ļ	<b>_</b>	1	418.3							
				418.3				SUMMAR	·		
		CREV			UNIT				Total Fluid		
			INGARD	<u> </u>	916	ŀ	Average Rate	Average Pressure	418 bbis		
Pure Spinish LESLEY		179-522	ŀ	2.4 bpm	108 psi	710 0000					
	Billy All Billy Bil		AMORE		527-	j					
		MOL			<del>'</del>						



2:39 PM 3.0 4.0 76.0 WASH PUMP AND LINE, DROP PLUG 2:43 PM 6.5 200.0 76.0 START 2% KCL DISPLACEMENT 2:56 PM 6.3 300.0 80.0 156.0 LIFT PRESSURE 2:00 PM 3.5 600.0 106.0 262.0 SLOW RATE 2:05 PM 1,500.0 116.9 378.9 PLUG DOWN, RELEASED AND HELD 2:10 PM 2.0 60.0 7.0 385.9 MIX 30 SKS H-PLUG FOR RAT HOLE	3.0	39 PM 3.0 4.0 76.0 WASH PUMP AND LINE, DROP PLUG 43 PM 6.5 200.0 76.0 START 2% KCL DISPLACEMENT 56 PM 6.3 300.0 80.0 166.0 LIFT PRESSURE 50 PM 3.8 900.0 106.0 262.0 SLOW RATE 10 PM 2.0 50.0 7.0 385.9 PLUG DOWN, RELEASED AND HELD 10 PM 2.0 50.0 5.0 390.9 MKX 20 SKS H-PLUG FOR RAT HOLE 15 PM 2.0 50.0 5.0 390.9 MKX 20 SKS H-PLUG FOR MOUSE HOLE CIRCULATION THROUGH JOB  - JOB COMPLETE, THANK YOU! - MKE MATTAL - RILEY & BRYAN - RILEY & BRYAN - WASHING AND	39 PM	9 PM 3.0 4.0 76.0 WASH PUMP AND LINE, DROP PLUG 3 PM 6.5 200.0 76.0 START 2% KCL DISPLACEMENT 8 PM 6.3 300.0 80.0 166.0 LIFT PRESSURE 0 PM 3.6 800.0 106.0 262.0 SLOW RATE 5 PM 1,500.0 116.9 378.3 PLUG DOWN, RELEASED AND HELD 0 PM 2.0 60.0 7.0 385.9 MM 30 SKS H-PLUG FOR ROTUSE HOLE 5 PM 2.0 50.0 5.0 390.9 MM 20 SKS H-PLUG FOR MOUSE HOLE CIRCULATION THROUGH JOB  - JOB COMPLETE, THANK YOU! - MKKE MATTAL RILEY & BRYAN  - RILEY & BRYAN  - GREW UNIT SUMMARY MATTAL 912 Average Rate Average Pressure Total Fluid OSBORN 1798522 4.4 bpm 374 psi 391 bbis	9 PM 3.0	12:39 PM 3.0
E43 PM 8.5 200.0 76.0 START 2% KCL DISPLACEMENT  E56 PM 6.3 300.0 80.0 156.0 LIFT PRESSURE  E00 PM 3.6 600.0 106.0 262.0 SLOW RATE  E05 PM 1,500.0 116.9 378.9 PLUG DOWN, RELEASED AND HELD  E10 PM 2.0 60.0 7.0 385.9 MK 30 SKS H-PLUG FOR RAT HOLE  E115 PM 2.0 60.0 5.0 390.9 MK 20 SKS H-PLUG FOR MOUSE HOLE  CIRCULATION THROUGH JOB  - JOB COMPLETE, THANK YOU!  - MIKE MATTAL  - RILEY & BRYAN  - CREW UNIT SUMMARY  MATTAL 912 Average Rate Average Pressure Total Fluid	A3 PM   8.5   200.0   76.0   START 2% KCL DISPLACEMENT	43 PM 8.5 200.0 76.0 START 2% KCL DISPLACEMENT  56 PM 6.3 300.0 80.0 166.0 LIFT PRESSURE  00 PM 3.5 600.0 108.0 262.0 SLOW RATE  05 PM 1,500.0 118.9 378.9 PLUG DOWN, RELEASED AND HELD  10 PM 2.0 50.0 7.0 385.9 MX 30 SKS H-PLUG FOR RAT HOLE  15 PM 2.0 60.0 5.0 390.9 MX 20 SKS H-PLUG FOR MOUSE HOLE  CIRCULATION THROUGH JOB  - JOB COMPLETE, THANK YOU!  - MIKE MATTAL  - RILEY & BRYAN  - RILEY & BRYAN  - CREW UNIT SUMMARY  MATTAL 912 Average Rate Average Pressure Total Fluid  OSBORN 1798522 4.4 bpm 374 psi 391 bbis	A3 PM   8.6   200.0   76.0   START 2% KCL DISPLACEMENT	3 PM 8.5 200.0 75.0 START 2% KCL DISPLACEMENT 6 PM 6.3 300.0 80.0 156.0 LIFT PRESSURE 0 PM 3.5 600.0 108.0 262.0 SLOW RATE 5 PM 1,500.0 118.9 378.9 PLUG DOWN, RELEASED AND HELD 0 PM 2.0 50.0 7.0 385.9 MK 30 SKS H-PLUG FOR RAT HOLE 5 PM 2.0 60.0 5.0 390.9 MK 20 SKS H-PLUG FOR MOUSE HOLE CIRCULATION THROUGH JOB  - JOB COMPLETE, THANK YOU! - MKKE MATTAL - RILEY & BRYAN - CREW UNIT SUMMARY MATTAL 912 Average Rate Average Pressure Total Fluid OSBORN 178/522 4.4 bpm 374 psi 391 bbis	3 PM 8.5 200.0 76.0 START 2% KCL DISPLACEMENT 6 PM 6.3 300.0 80.0 156.0 LIFT PRESSURE 0 PM 1,500.0 116.0 262.0 SLOW RATE 5 PM 1,500.0 118.9 378.9 PLUG DOWN, RELEASED AND HELD 0 PM 2.0 60.0 7.0 385.9 MDX 30 SKS H-PLUG FOR RAT HOLE 5 PM 2.0 60.0 5.0 390.9 MDX 20 SKS H-PLUG FOR MOUSE HOLE CIRCULATION THROUGH JOB  - JOB COMPLETE, THANK YOU! - MIKE MATTAL - RILEY & BRYAN - CREW UNIT SUMMARY MATTAL 912 Average Rate Average Pressure Total Fluid	12:43 PM 8.5 200.0 76.0 START 2% KCL DISPLACEMENT  12:58 PM 6.3 300.0 80.0 166.0 LIFT PRESSURE  1:00 PM 3.5 600.0 108.0 262.0 SLOW RATE  1:05 PM 1,500.0 116.9 378.9 PLUG DOWN, RELEASED AND HELD  1:10 PM 2.0 60.0 7.0 385.9 MIX 30 SKS H-PLUG FOR RAT HOLE  1:15 PM 2.0 60.0 5.0 390.9 MIX 20 SKS H-PLUG FOR MOUSE HOLE  CIRCULATION THROUGH JOB  - JOB COMPLETE, THANK YOU!  - MIKE MATTAL  - RILEY & BRYAN
E43 PM 8.5 200.0 76.0 START 2% KCL DISPLACEMENT  E56 PM 6.3 300.0 80.0 156.0 LIFT PRESSURE  E00 PM 3.6 600.0 106.0 262.0 SLOW RATE  E05 PM 1,500.0 116.9 378.9 PLUG DOWN, RELEASED AND HELD  E10 PM 2.0 60.0 7.0 385.9 MK 30 SKS H-PLUG FOR RAT HOLE  E115 PM 2.0 60.0 5.0 390.9 MK 20 SKS H-PLUG FOR MOUSE HOLE  CIRCULATION THROUGH JOB  - JOB COMPLETE, THANK YOU!  - MIKE MATTAL  - RILEY & BRYAN  - CREW UNIT SUMMARY  MATTAL 912 Average Rate Average Pressure Total Fluid	A3 PM   8.5   200.0   76.0   START 2% KCL DISPLACEMENT	43 PM 8.5 200.0 76.0 START 2% KCL DISPLACEMENT  56 PM 6.3 300.0 80.0 166.0 LIFT PRESSURE  00 PM 3.5 600.0 108.0 262.0 SLOW RATE  05 PM 1,500.0 118.9 378.9 PLUG DOWN, RELEASED AND HELD  10 PM 2.0 50.0 7.0 385.9 MX 30 SKS H-PLUG FOR RAT HOLE  15 PM 2.0 60.0 5.0 390.9 MX 20 SKS H-PLUG FOR MOUSE HOLE  CIRCULATION THROUGH JOB  - JOB COMPLETE, THANK YOU!  - MIKE MATTAL  - RILEY & BRYAN  - RILEY & BRYAN  - CREW UNIT SUMMARY  MATTAL 912 Average Rate Average Pressure Total Fluid  OSBORN 1798522 4.4 bpm 374 psi 391 bbis	A3 PM   8.6   200.0   76.0   START 2% KCL DISPLACEMENT	3 PM 8.5 200.0 75.0 START 2% KCL DISPLACEMENT 6 PM 6.3 300.0 80.0 156.0 LIFT PRESSURE 0 PM 3.5 600.0 108.0 262.0 SLOW RATE 5 PM 1,500.0 118.9 378.9 PLUG DOWN, RELEASED AND HELD 0 PM 2.0 50.0 7.0 385.9 MK 30 SKS H-PLUG FOR RAT HOLE 5 PM 2.0 60.0 5.0 390.9 MK 20 SKS H-PLUG FOR MOUSE HOLE CIRCULATION THROUGH JOB  - JOB COMPLETE, THANK YOU! - MKKE MATTAL - RILEY & BRYAN - CREW UNIT SUMMARY MATTAL 912 Average Rate Average Pressure Total Fluid OSBORN 178/522 4.4 bpm 374 psi 391 bbis	3 PM 8.5 200.0 76.0 START 2% KCL DISPLACEMENT 6 PM 6.3 300.0 80.0 156.0 LIFT PRESSURE 0 PM 1,500.0 116.0 262.0 SLOW RATE 5 PM 1,500.0 118.9 378.9 PLUG DOWN, RELEASED AND HELD 0 PM 2.0 60.0 7.0 385.9 MDX 30 SKS H-PLUG FOR RAT HOLE 5 PM 2.0 60.0 5.0 390.9 MDX 20 SKS H-PLUG FOR MOUSE HOLE CIRCULATION THROUGH JOB  - JOB COMPLETE, THANK YOU! - MIKE MATTAL - RILEY & BRYAN - CREW UNIT SUMMARY MATTAL 912 Average Rate Average Pressure Total Fluid	12:43 PM 8.5 200.0 76.0 START 2% KCL DISPLACEMENT  12:56 PM 6.3 300.0 80.0 156.0 LIFT PRESSURE  1:00 PM 3.5 600.0 106.0 262.0 SLOW RATE  1:05 PM 1,500.0 116.9 378.9 PLUG DOWN, RELEASED AND HELD  1:10 PM 2.0 50.0 7.0 385.9 MKX 30 SKS H-PLUG FOR RAT HOLE  1:15 PM 2.0 50.0 5.0 390.9 MKX 20 SKS H-PLUG FOR MOUSE HOLE  CIRCULATION THROUGH JOB  - JOB COMPLETE, THANK YOU!  - MIKE MATTAL  - RILEY & BRYAN
### 156.0 ### 1.500.0 ### 156.0 ### 156.0 ##### 156.0 ##### 156.0 ##### 156.0 ##### 156.0 ######### 156.0 ####################################	156 PM   8.3   300.0   80.0   156.0   LIFT PRESSURE	56 PM	Se PM   6.3   300.0   80.0   156.0   LIFT PRESSURE	8 PM 6.3 300.0 80.0 166.0 LIFT PRESSURE  0 PM 3.6 600.0 106.0 262.0 SLOW RATE  5 PM 1,500.0 118.9 378.8 PLUG DOWN, RELEASED AND HELD  0 PM 2.0 60.0 7.0 385.9 MIX 30 SKS H-PLUG FOR RAT HOLE  5 PM 2.0 60.0 5.0 390.9 MIX 20 SKS H-PLUG FOR MOUSE HOLE  CIRCULATION THROUGH JOB  - JOB COMPLETE, THANK YOU!  - MIKE MATTAL  - RILEY & BRYAN  - CREW UNIT SUMMARY  MATTAL  912 Average Rate Average Pressure Total Fluid  OSBORN 178/S22 4.4 bpm 374 psi 391 bbis	6 PM 6.3 300.0 80.0 166.0 LIFT PRESSURE  0 PM 3.8 600.0 106.0 262.0 SLOW RATE  6 PM 1,500.0 116.9 378.9 PLUG DOWN, RELEASED AND HELD  0 PM 2.0 60.0 7.0 385.9 MIX 30 SKS H-PLUG FOR RAT HOLE  5 PM 2.0 60.0 5.0 390.9 MIX 20 SKS H-PLUG FOR MOUSE HOLE  CIRCULATION THROUGH JOB  - JOB COMPLETE, THANK YOU!  - MIKE MATTAL  - RILEY & BRYAN  - CREY UNIT SUMMARY  MATTAL  912 Average Rate Average Pressure Total Fluid	12:56 PM 6.3 300.0 80.0 156.0 LIFT PRESSURE  1:00 PM 3.5 600.0 106.0 262.0 SLOW RATE  1:05 PM 1,500.0 116.9 378.9 PLUG DOWN, RELEASED AND HELD  1:10 PM 2.0 60.0 7.0 385.9 MIX 30 SKS H-PLUG FOR RAT HOLE  1:15 PM 2.0 60.0 5.0 390.9 MIX 20 SKS H-PLUG FOR MOUSE HOLE  CIRCULATION THROUGH JOB  - JOB COMPLETE, THANK YOU!  - MIKE MATTAL  - RILEY & BRYAN
1:00 PM   3.8   600.0   108.0   262.0   SLOW RATE     1:05 PM   1,500.0   118.9   378.9   PLUG DOWN, RELEASED AND HELD     1:10 PM   2.0   60.0   7.0   385.9   MIX 30 SKS H-PLUG FOR RAT HOLE     1:15 PM   2.0   60.0   5.0   390.9   MIX 20 SKS H-PLUG FOR MOUSE HOLE	1,500.0   108.0   252.0   SLOW RATE	1,500.0   106.0   282.0   SLOW RATE	1,500.0   106.0   282.0   SLOW RATE	0 PM   3.5   900.0   108.0   262.0   SLOW RATE	0 PM   3.8   600.0   106.0   262.0   SLOW RATE     5 PM	1:00 PM 3.5 600.0 106.0 262.0 SLOW RATE  1:05 PM 1,500.0 116.9 378.9 PLUG DOWN, RELEASED AND HELD  1:10 PM 2.0 60.0 7.0 385.9 MIX 30 SKS H-PLUG FOR RAT HOLE  1:15 PM 2.0 60.0 5.0 390.9 MIX 20 SKS H-PLUG FOR MOUSE HOLE  CIRCULATION THROUGH JOB  - JOB COMPLETE, THANK YOU!  - MIKE MATTAL  - RILEY & BRYAN
1,50.0   116.9   378.9   PLUG DOWN, RELEASED AND HELD	1,500.0   116.9   378.9   PLUG DOWN, RELEASED AND HELD	1,500.0   116.9   378.9   PLUG DOWN, RELEASED AND HELD     10 PM   2.0   50.0   7.0   385.9   MIX 30 SKS H-PLUG FOR RAT HOLE     15 PM   2.0   50.0   5.0   390.9   MIX 20 SKS H-PLUG FOR MOUSE HOLE	1,500.0   116.9   378.9   PLUG DOWN, RELEASED AND HELD     10 PM   2.0   50.0   7.0   385.9   MIX 30 SKS H-PLUG FOR RAT HOLE     15 PM   2.0   50.0   5.0   390.9   MIX 20 SKS H-PLUG FOR MOUSE HOLE	5 PM	5 PM	1:05 PM
1:10 PM   2.0   50.0   7.0   385.9   MIX 30 SKS H-PLUG FOR RAT HOLE	10 PM   2.0   50.0   7.0   385.9   MIX 30 SKS H-PLUG FOR RAT HOLE	10 PM 2.0 50.0 7.0 385.9 MXX 30 SKS H-PLUG FOR RAT HOLE 15 PM 2.0 50.0 5.0 390.9 MXX 20 SKS H-PLUG FOR MOUSE HOLE  CIRCULATION THROUGH JOB  - JOB COMPLETE, THANK YOU!  - MIKE MATTAL  - RILEY & BRYAN  - RILEY & BRYAN  - WILEY &	10 PM 2.0 50.0 7.0 335.9 MIX 30 SKS H-PLUG FOR RAT HOLE 15 PM 2.0 50.0 5.0 390.9 MIX 20 SKS H-PLUG FOR MOUSE HOLE  CIRCULATION THROUGH JOB  - JOB COMPLETE, THANK YOU!  - MIKE MATTAL  - RILEY & BRYAN  - RILEY & BRYAN  - CREW  UNIT  MATTAL  912  Average Rate Average Pressure Total Fluid  OSBORN 179/522  4.4 bpm 374 psi 391 bbls	0 PM 2.0 50.0 7.0 385.9 MIX 30 SKS H-PLUG FOR RAT HOLE 5 PM 2.0 50.0 5.0 390.9 MIX 20 SKS H-PLUG FOR MOUSE HOLE  CIRCULATION THROUGH JOB  - JOB COMPLETE, THANK YOU!  - MIKE MATTAL  - RILEY & BRYAN  - RILEY & BRYAN  - CREW  UNIT  SUMMARY  MATTAL  912  Average Rate  Average Pressure  Total Fluid  OSBORN  179/522  4.4 bpm 374 psi 391 bbis	0 PM 2.0	1:10 PM 2.0
115 PM   2.0   50.0   5.0   390.9   MIX 20 SKS H-PLUG FOR MOUSE HOLE	## 15 PM 2.0 50.0 5.0 390.9 MIX 20 SKS H-PLUG FOR MOUSE HOLE    CIRCULATION THROUGH JOB	15 PM 2.0 50.0 5.0 390.9 MIX 20 SKS H-PLUG FOR MOUSE HOLE  CIRCULATION THROUGH JOB  - JOB COMPLETE, THANK YOU! - MIKE MATTAL - RILEY & BRYAN	15 PM 2.0 50.0 5.0 390.9 MIX 20 SKS H-PLUG FOR MOUSE HOLE  CIRCULATION THROUGH JOB  - JOB COMPLETE, THANK YOU!  - MIKE MATTAL  - RILEY & BRYAN	5 PM         2.0         50.0         5.0         390.9         MIX 20 SKS H-PLUG FOR MOUSE HOLE           CIRCULATION THROUGH JOB         -         JOB COMPLETE, THANK YOU!           -         MIKE MATTAL         -         RILEY & BRYAN           -         -         -         -           -         -         -         -           -         -         -         -           -         -         -         -           -         -         -         -           -         -         -         -           -         -         -         -           -         -         -         -           -         -         -         -           -         -         -         -           -         -         -         -           -         -         -         -           -         -         -         -           -         -         -         -           -         -         -         -           -         -         -         -           -         -         -         -	5 PM 2.0 50.0 5.0 390.9 MIX 20 SKS H-PLUG FOR MOUSE HOLE	1:15 PM 2.0 50.0 5.0 390.9 MIX 20 SKS H-PLUG FOR MOUSE HOLE  CIRCULATION THROUGH JOB  - JOB COMPLETE, THANK YOU!  - MIKE MATTAL  - RILEY & BRYAN
CIRCULATION THROUGH JOB  - JOB COMPLETE, THANK YOU!  - MIKE MATTAL  - RILEY & BRYAN	CIRCULATION THROUGH JOB  - JOB COMPLETE, THANK YOU!  - MIKE MATTAL  - RILEY & BRYAN	CIRCULATION THROUGH JOB  - JOB COMPLETE, THANK YOU!  - MIKE MATTAL  - RILEY & BRYAN  - RILEY & BRYAN  - CREW UNITE SUMMARY  MATTAL 912 Average Rate Average Pressure Total Fluid  OSBORN 179/522 4.4 bpm 374 psi 391 bbis	CIRCULATION THROUGH JOB  - JOB COMPLETE, THANK YOU!  - MIKE MATTAL  - RILEY & BRYAN  - RILEY & BRYAN  - CREW  UNIT  MATTAL  912  Average Rate  Average Pressure  Total Fluid  OSBORN  179/522  4.4 bpm 374 psi 391 bbis	CIRCULATION THROUGH JOB  - JOB COMPLETE, THANK YOU!  - MIKE MATTAL  - RILEY & BRYAN  - CREW  UNIT  MATTAL  912  Average Rate  Average Pressure  Total Fluid  OSBORN  179822  4.4 bpm  374 psi 391 bbis	CIRCULATION THROUGH JOB  - JOB COMPLETE, THANK YOU!  - MIKE MATTAL  - RILEY & BRYAN	CIRCULATION THROUGH JOB  - JOB COMPLETE, THANK YOU!  - MIKE MATTAL  - RILEY & BRYAN
CIRCULATION THROUGH JOB  - JOB COMPLETE, THANK YOU!  - MIKE MATTAL  - RILEY & BRYAN	CIRCULATION THROUGH JOB  - JOB COMPLETE, THANK YOU!  - MIKE MATTAL  - RILEY & BRYAN	CIRCULATION THROUGH JOB  - JOB COMPLETE, THANK YOU!  - MIKE MATTAL  - RILEY & BRYAN  - RILEY & BRYAN  - CREW UNITE SUMMARY  MATTAL 912 Average Rate Average Pressure Total Fluid  OSBORN 179/522 4.4 bpm 374 psi 391 bbis	CIRCULATION THROUGH JOB  - JOB COMPLETE, THANK YOU!  - MIKE MATTAL  - RILEY & BRYAN  - RILEY & BRYAN  - CREW  UNIT  MATTAL  912  Average Rate  Average Pressure  Total Fluid  OSBORN  179/522  4.4 bpm 374 psi 391 bbis	CIRCULATION THROUGH JOB  - JOB COMPLETE, THANK YOU!  - MIKE MATTAL  - RILEY & BRYAN  - CREW  UNIT  MATTAL  912  Average Rate  Average Pressure  Total Fluid  OSBORN  179822  4.4 bpm  374 psi 391 bbis	CIRCULATION THROUGH JOB  - JOB COMPLETE, THANK YOU!  - MIKE MATTAL  - RILEY & BRYAN	CIRCULATION THROUGH JOB  - JOB COMPLETE, THANK YOU!  - MIKE MATTAL  - RILEY & BRYAN
- JOB COMPLETE, THANK YOU! - MIKE MATTAL - RILEY & BRYAN - SUMMARY - CREW UNIT SUMMARY - Average Rate Average Pressure Total Fluid	- JOB COMPLETE, THANK YOU! - MIKE MATTAL - RILEY & BRYAN	- JOB COMPLETE, THANK YOU! - MIKE MATTAL - RILEY & BRYAN	- JOB COMPLETE, THANK YOU! - MIKE MATTAL - RILEY & BRYAN	- JOB COMPLETE, THANK YOU! - MIKE MATTAL - RILEY & BRYAN	- JOB COMPLETE, THANK YOU!  - MIKE MATTAL  - RILEY & BRYAN	- JOB COMPLETE, THANK YOU! - MIKE MATTAL - RILEY & BRYAN
- JOB COMPLETE, THANK YOU! - MIKE MATTAL - RILEY & BRYAN - SUMMARY - CREW UNIT SUMMARY - Average Rate Average Pressure Total Fluid	- JOB COMPLETE, THANK YOU! - MIKE MATTAL - RILEY & BRYAN	- JOB COMPLETE, THANK YOU! - MIKE MATTAL - RILEY & BRYAN	- JOB COMPLETE, THANK YOU! - MIKE MATTAL - RILEY & BRYAN	- JOB COMPLETE, THANK YOU! - MIKE MATTAL - RILEY & BRYAN	- JOB COMPLETE, THANK YOU!  - MIKE MATTAL  - RILEY & BRYAN	- JOB COMPLETE, THANK YOU! - MIKE MATTAL - RILEY & BRYAN
- JOB COMPLETE, THANK YOU! - MIKE MATTAL - RILEY & BRYAN	- JOB COMPLETE, THANK YOU! - MIKE MATTAL - RILEY & BRYAN	- JOB COMPLETE, THANK YOU! - MIKE MATTAL - RILEY & BRYAN	- JOB COMPLETE, THANK YOU! - MIKE MATTAL - RILEY & BRYAN	- JOB COMPLETE, THANK YOU! - MIKE MATTAL - RILEY & BRYAN	- JOB COMPLETE, THANK YOU!  - MIKE MATTAL  - RILEY & BRYAN	- JOB COMPLETE, THANK YOU!  - MIKE MATTAL  - RILEY & BRYAN
- JOB COMPLETE, THANK YOU!  - MIKE MATTAL  - RILEY & BRYAN	- JOB COMPLETE, THANK YOU! - MIKE MATTAL - RILEY & BRYAN	- JOB COMPLETE, THANK YOU!  - MIKE MATTAL  - RILEY & BRYAN	- JOB COMPLETE, THANK YOU!  - MIKE MATTAL  - RILEY & BRYAN	- JOB COMPLETE, THANK YOU! - MIKE MATTAL - RILEY & BRYAN	- JOB COMPLETE, THANK YOU! - MIKE MATTAL - RILEY & BRYAN	- JOB COMPLETE, THANK YOU!  - MIKE MATTAL  - RILEY & BRYAN
- JOB COMPLETE, THANK YOU!  - MIKE MATTAL  - RILEY & BRYAN	- JOB COMPLETE, THANK YOU! - MIKE MATTAL - RILEY & BRYAN	- JOB COMPLETE, THANK YOU!  - MIKE MATTAL  - RILEY & BRYAN	- JOB COMPLETE, THANK YOU!  - MIKE MATTAL  - RILEY & BRYAN	- JOB COMPLETE, THANK YOU! - MIKE MATTAL - RILEY & BRYAN	- JOB COMPLETE, THANK YOU! - MIKE MATTAL - RILEY & BRYAN	- JOB COMPLETE, THANK YOU!  - MIKE MATTAL  - RILEY & BRYAN
- MIKE MATTAL - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN
- MIKE MATTAL - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN
- MIKE MATTAL - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN
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- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN
- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN
- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN
- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN
- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN
- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN
- MIKE MATTAL - RILEY & BRYAN - CREW UNIT SUMMARY MATTAL 912 Average Rate Average Pressure Total Fluid	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN
- MIKE MATTAL - RILEY & BRYAN - CREW UNIT SUMMARY MATTAL 912 Average Rate Average Pressure Total Fluid	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN
- MIKE MATTAL - RILEY & BRYAN - CREW UNIT SUMMARY MATTAL 912 Average Rate Average Pressure Total Fluid	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN
- MIKE MATTAL - RILEY & BRYAN - CREW UNIT SUMMARY MATTAL 912 Average Rate Average Pressure Total Fluid	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN
- MIKE MATTAL - RILEY & BRYAN - CREW UNIT SUMMARY MATTAL 912 Average Rate Average Pressure Total Fluid	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN
- MIKE MATTAL - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN - RILEY & BRYAN	- MIKE MATTAL - RILEY & BRYAN
- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN
- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN
- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN
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- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN
- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN
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- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN
- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN
- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN
- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN
- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN
- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN
- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN
- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN
- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN
- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN	- RILEY & BRYAN
CREW UNIT SUMMARY  BATTAL 912 Average Rate Average Pressure Total Fluid	CREW UNIT SUMMARY  MATTAL 912 Average Rate Average Pressure Total Fluid  OSBORN 179/522 4.4 bprs 374 psi 391 bbis	CREW UNIT SUMMARY  MATTAL 912 Average Rate Average Pressure Total Fiuld  OSBORN 179/522 4.4 bpm 374 psi 391 bbis	CREW UNIT SUMMARY  MATTAL 912 Average Rate Average Pressure Total Fluid OSBORN 179/522 4.4 bpm 374 psi 391 bbis			
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######################################	2. 4. 2. WHI FIELD 187/832					OSBORN 179/522 4.4 bpm 374 psi 391 bbis

OPERATOR

Company: Castelli Exploration, Inc.

Address:

Contact Geologist: Tom Castelli

Contact Phone Nbr:

Well Name: Merrill Ranch #1-27

Location:

API:

Pool: Wildcat Field:

State: Country:

Scale 1:240 Imperial

Well Name: Merrill Ranch #1-27

Surface Location: Bottom Location:

API:

License Number:

Spud Date: 1/1/2021 Time: 7:00 AM

Region:

Drilling Completed: Time:

Drilling Completed: Surface Coordinates:

**Bottom Hole Coordinates:** 

Ground Elevation: 1654.00ft

K.B. Elevation: 0.00ft

Logged Interval: 0.00ft To: 0.00ft

Total Depth: 0.00ft

Formation:

Drilling Fluid Type:

#### **SURFACE CO-ORDINATES**

Well Type: Vertical
Longitude: 0
Latitude: 0
N/S Co-ord:
E/W Co-ord:

#### LOGGED BY



Company: Hard Rock Consulting, Inc.

Address: P.O. Box 1260

Hays, KS 67601

Phone Nbr: 785-635-5586

Logged By: Geologist Name: Jason T Alm

CONTRACTOR

Contractor: Duke Drilling, Inc.

Rig #: 1

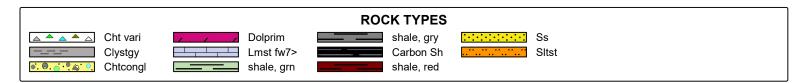
Rig Type:

Spud Date: 1/1/2021 Time: 7:00 AM

TD Date: Time: Rig Release: Time:

#### 0.00ft K.B. Elevation: Ground Elevation: 1654.00ft K.B. to Ground: 12.00ft **NOTES** Formation Tops K.B. = 1666' Merrill Ranch #1-27 #1-34 Heebner 3978' -2312 -2306 Lansing 4172' -2506 -2504 Swope 4527' -2861 -2858 Hertha 4577' -2911 -2907 Pawnee 4755' -3089 -3090 Fort Scott 4754' -3118 -3122 Cherokee 4796' -3130 -3131

**ELEVATIONS** 



-3205

Mississippian

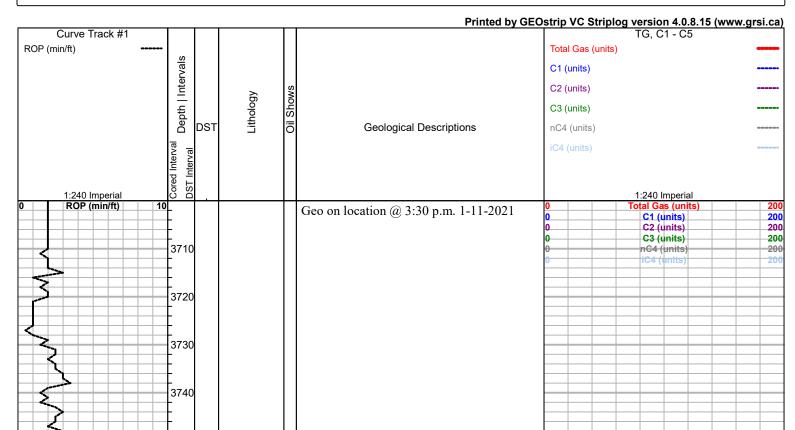
**RTD** 

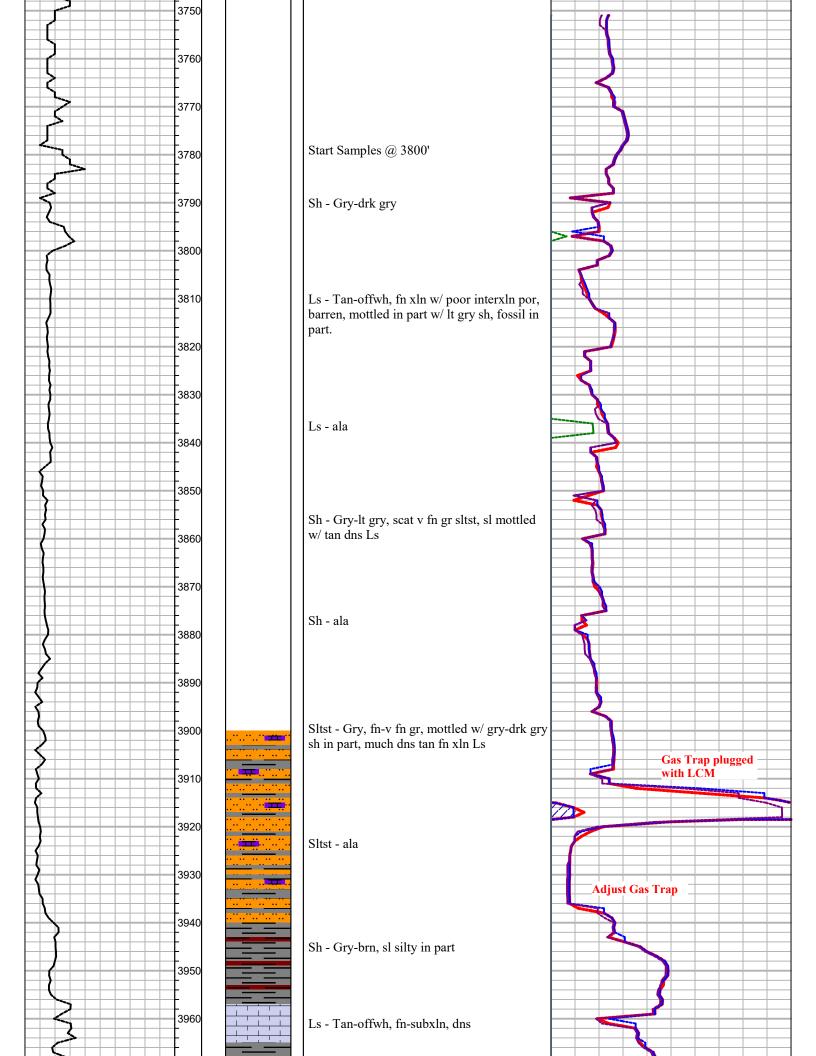
4867' -3201

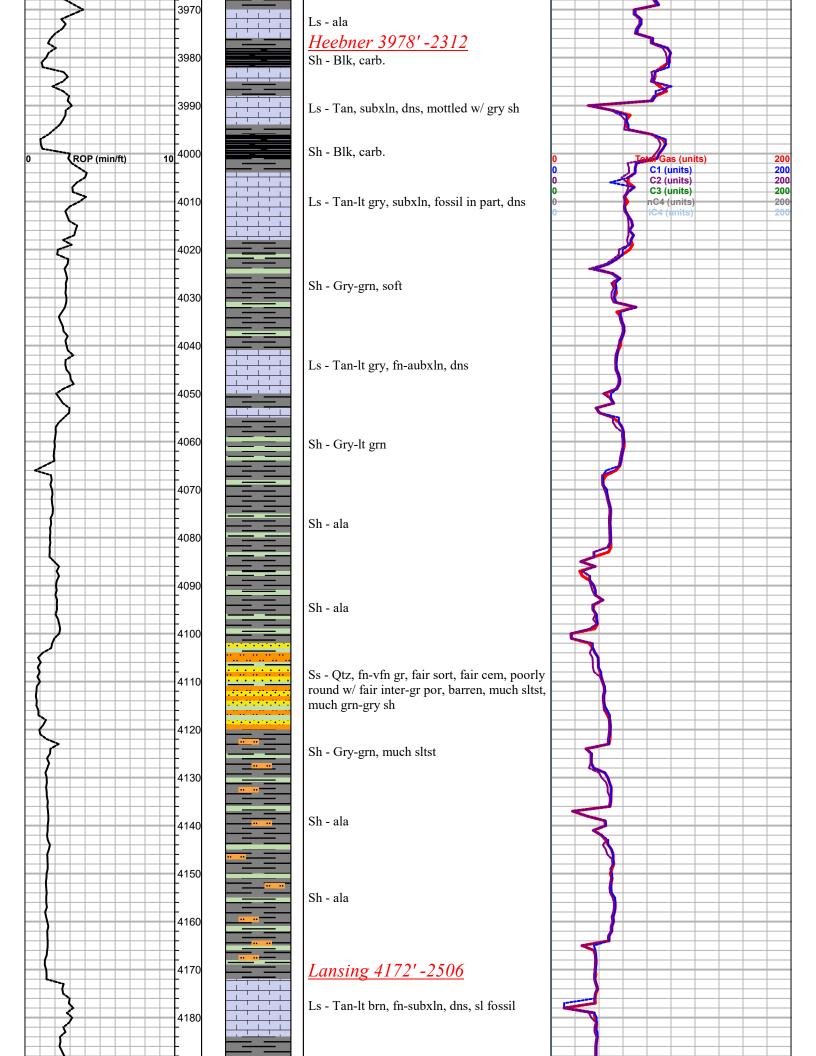
4950' -3284

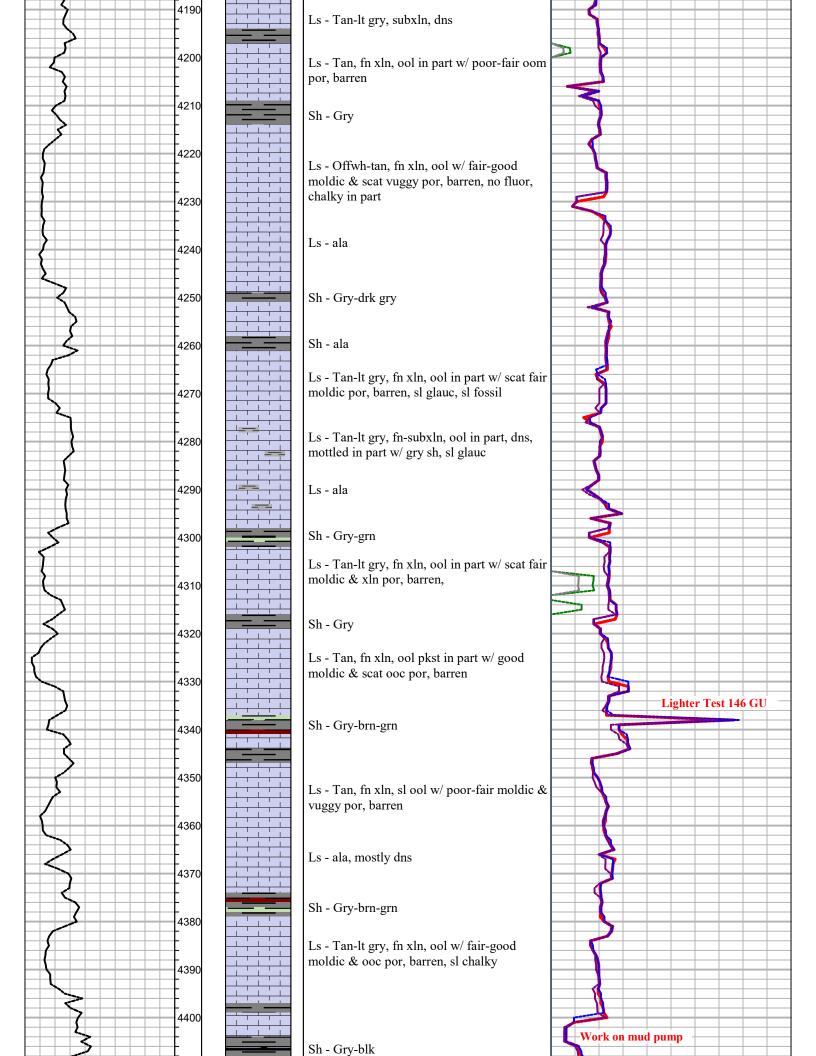


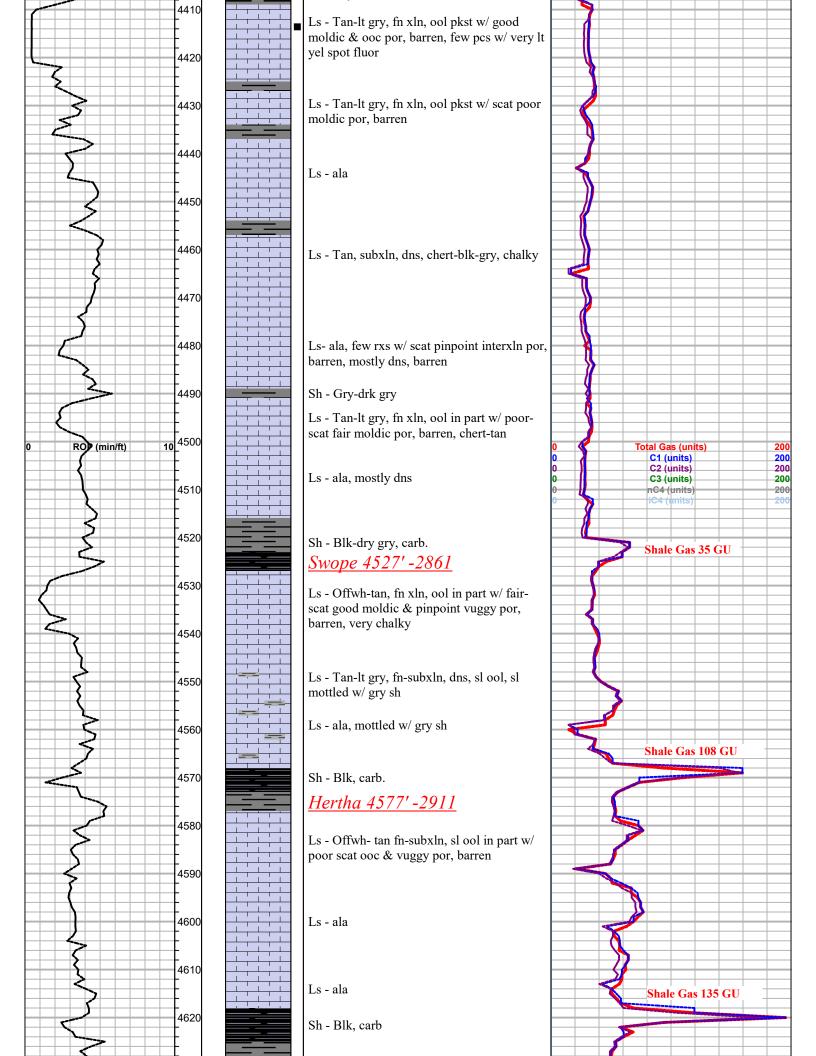
# OTHER SYMBOLS OIL SHOWS Even Stn Spotted Stn 50 - 75 % Spotted Stn 25 - 50 % Spotted Stn 1 - 25 % Questionable Stn Dead Oil Stn Fluorescence

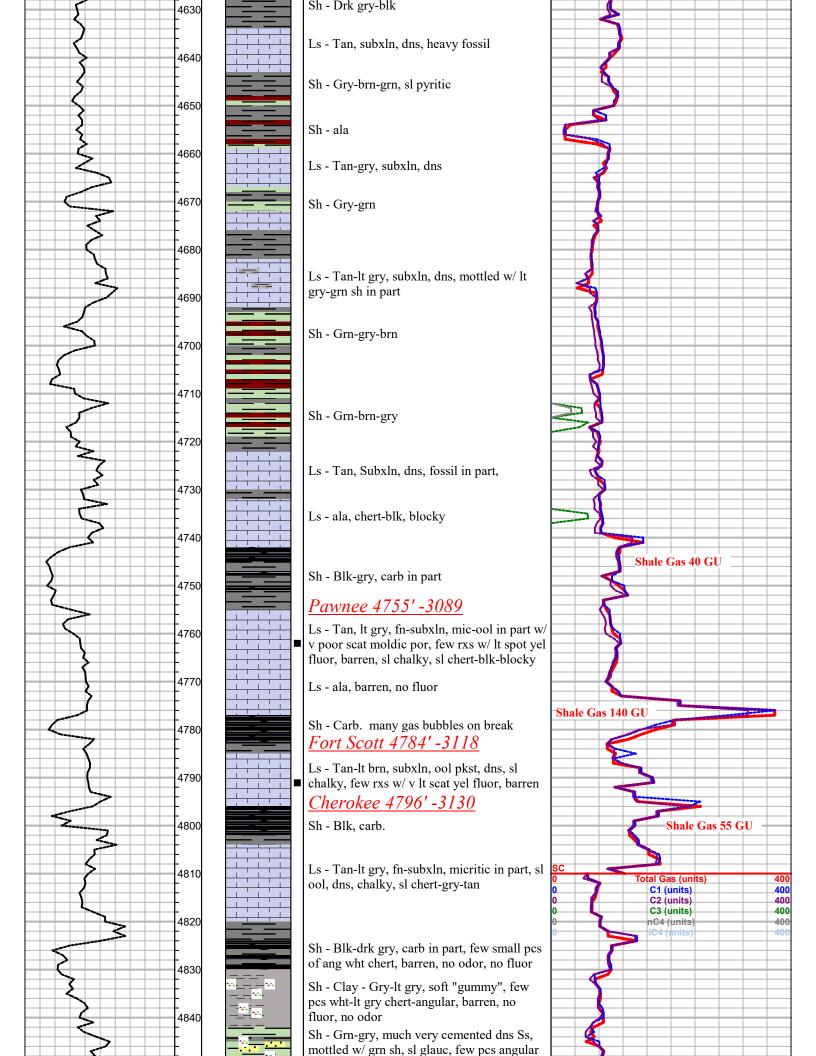


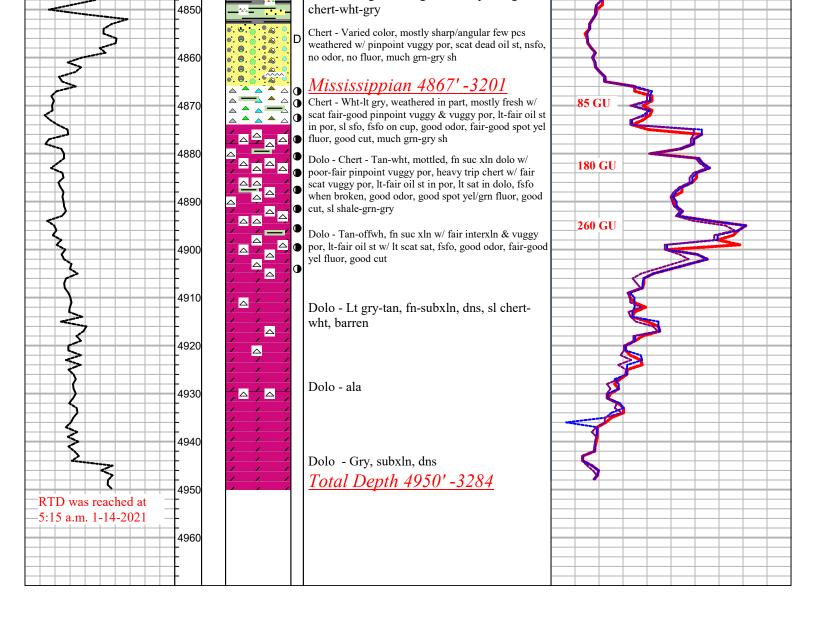












## Big Bucket's Rathole Drilling, Inc.

P. O. Box 5252 Enid, OK 73702 Office 580-233-9850 Fax 580-233-4588

## **INVOICE**

DATE	INVOICE NO.
1/12/2021	7129

BILL TO	
Castelli Exploration 6908 N.W. 112th Street Oklahoma City, OK 73162	

١	WELLNAME		RIG	COUNTY	LEG	SAL	LEG	SAL
M	errill Ranch		Duke 1	NW	7/4	Sec27-33	3S-16W	
DATE	W. TKT		DESCRI	PTION		QTY	RATE	AMOUNT
1/4/2021	6046	Drilled Bobcat Furnish Furnish Furnish Furnish STATE	30" conductor hole 4' of 60" cellar to remove dirt ed 20" conductor pip ed 4' of 60" steel cell ed welder & material ed grout: 7 yards of ed mud truck with dr	oe lar form ls 8 sack grout 2%		69	40.00 200.00 300.00	2,760.00 200.00 300.00 2,760.00 450.00 227.50 1,166.18
We apprec	iate your bus	siness!			Tot	al	\$1	0,453.68

ORDERED BY  Bill To Color  Address	BIG BUCKETS RATHOLE DRILLING P.O. Box 5252 Enid, Oklahoma 73702 Phone (580) 233-9850 Fax (580) 233-4588  Lease Lease Legal County	Date 1-4-181
	Rig //, t.e	
	DESCRIPTION	AMOUNT
Furnish Men & Equipment To	3' of 30' conductor how a grown	A 2760 0
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120110018	e diet all we of bleat	30
Materials Furnished 29' 4	40 0 Surto : 10 @ 48011	4 1710
446	a stat allar form	450 %
célde	1 4 Motivals	129 60
1 1/2	Brand Lange	1,166 18
- This to	6 Timer district	259000
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	4	
Operator	Approved By	Total 10 4 5 4 8