### KOLAR Document ID: 1586542

Сс	onfiden	tiality R	equested:
	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 -	<ul> <li>DESCRIPTION</li> </ul>	<b>OF WELL &amp;</b>	LEASE

OPERATOR: License #	API No.:
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.xxxx) (e.gxxx.xxxxx) Datum: NAD27 NAD83 WGS84
Wellsite Geologist:	
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
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)
Commingled Permit #:	Chloride content: ppm Fluid volume: bbls
Commingled Permit #:      Dual Completion Permit #:	Dewatering method used:
SWD Permit #:	Location of fluid disposal if hauled offsite:
EOR         Permit #:	
GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	Quarter Sec TwpS. 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:							

#### KOLAR Document ID: 1586542

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		<u> </u>	/es 🗌 No	1		Log Formation (Top), Depth and Datum		Sample				
(Attach Additional Sheets)			(		N	lame	<del>)</del>			Тор	Datum	
Samples Sent to Geological Survey Cores Taken Electric Log Run Geologist Report / Mud Logs List All E. Logs Run:			∕es ∟ Νο ∕es □ Νο ∕es □ Νο ∕es □ Νο	1								
			Rep	CASI ort all strings	NG RECO		Nev		duction, etc.			
Purpose of String		ze Hole Drilled	Si	ze Casing et (In O.D.)		Weight _bs. / Ft.		Setting Depth	Type o Cemei		# Sacks Used	Type and Percent Additives
Purpose:		Depth	Turo			NTING / S						
Perforate	Тор	Bottom	тур	Type of Cement		# Sacks Useu		Type and Percent Additives				
Protect Casing Plug Back TD Plug Off Zone												
<ol> <li>Did you perform a h</li> <li>Does the volume of</li> <li>Was the hydraulic fractional first Production</li> </ol>	the total base acturing treat	e fluid of the hy ment informat	ydraulic fi ion subm	acturing treat	emical disclo		stry?	Gas Lift	No (If	No, skip No, fill c	o questions 2 an o question 3) out Page Three o	
Estimated Production Per 24 Hours	1	Oil B	bls.	Gas	Mcf	,	Water Bbls. Gas-Oil Ratio Grav				Gravity	
DISPOSIT	TION OF GAS	8:		METHOD OF			COMPLETION:			PRODUCTION INTERVAL: Top Bottom		
Vented So	old Use	ed on Lease		Open Hole Perf.			Use Dually Comp.     Commingled       (Submit ACO-5)     (Submit ACO-4)					
Shots Per Foot	Perforation Top	Perforat Bottor		Bridge Plug Bridge Plu Type Set At				,	Acid, Fracture, Sho (Amount ar		enting Squeeze of Material Used)	Record
TUBING RECORD: Size: S		Set At:		Packer	At:							

Form	ACO1 - Well Completion			
Operator Rockhound Petroleum, LLC				
Well Name	DUNN 1			
Doc ID	1586542			

All Electric Logs Run

DIL
ML
SON
CDL/CNL

Form	ACO1 - Well Completion			
Operator Rockhound Petroleum, LLC				
Well Name	DUNN 1			
Doc ID	1586542			

# Tops

Name	Тор	Datum
Base Heebner	3332	-1426
Toronto	3348	-1442
Douglas	3362	-1456
BL	3463	-1557
Lansing	3482	-1576
ВКС	3722	-1816
Viola	3816	-1910
Simpson SH	3851	-1945
ARB	3910	-2004

Form	ACO1 - Well Completion			
Operator Rockhound Petroleum, LLC				
Well Name	DUNN 1			
Doc ID	1586542			

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Type and Percent Additives
Surface	12.25	8.625	23	485	common	H- Con/Class -A

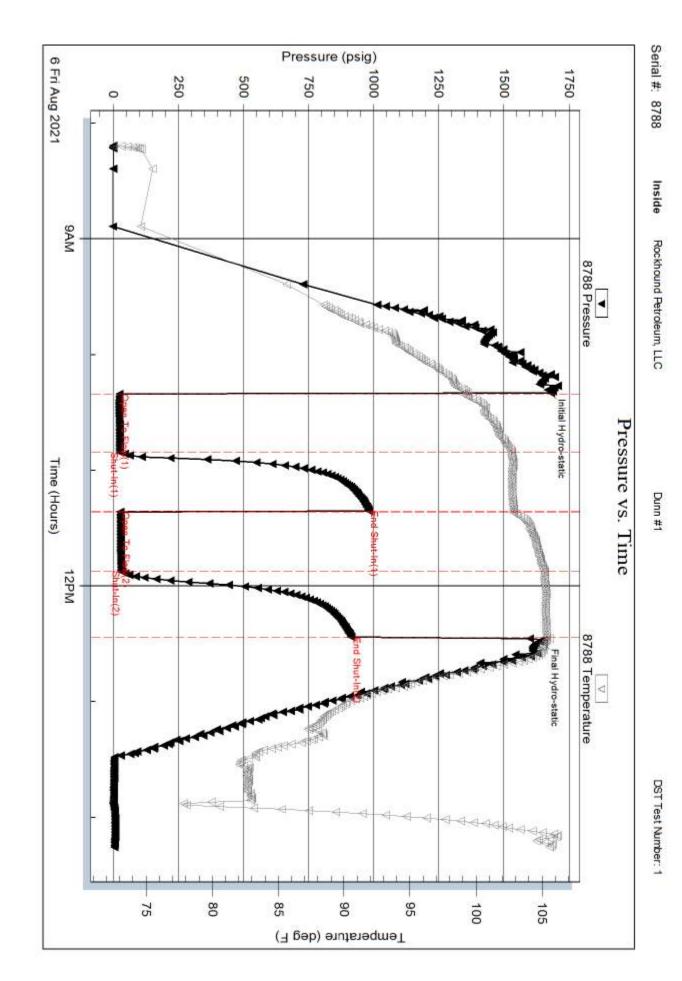
	DRILL STEM TES	ST REP	ORT			
	Rockhound Petroleum, LLC		8-23s-13	Bw Staffo	rd Co. Ks.	
ESTING , M	255 NE 30th St. John, Ks. 67576		<b>Dunn #</b> Job Ticke		DST	#• 1
	ATTN: Keaton Jones.				06 @ 08:11:31	
GENERAL INFORMATION:						
Formation:Lansing BDeviated:NoWhipstockTime Tool Opened:10:20:16Time Test Ended:14:15:16	ft (KB)		Test Type Tester: Unit No:	e: Convent Matt Sm 68	tional Bottom ith	Hole (Initial)
Total Depth: 3514.00 ft (KB)	<b>3514.00 ft (KB) (TVD)</b> TVD) ble Condition: Fair			e ⊟evations KB to GR/Cl	1898.	00 ft (KB) 00 ft (CF) 00 ft
Serial #: 8788 Inside Press@RunDepth: 30.72 psi Start Date: 2021.08.0 Start Time: 08:11:3 TEST COMMENT: IF: Weak Blow ISI: No Blow . FF: Weak Blow FSI: No Blow .	<ul> <li>End Date:</li> <li>End Time:</li> <li>Built to 1.49". (30)</li> <li>(30)</li> <li>Built to .57". (30)</li> </ul>	2021.08.06 14:15:15	Capacity: Last Calib.: Time On Btm: Time Off Btm:		8000. 2021.08. 9.06 @ 10:18: 9.06 @ 12:28:	16
Pressure v 5785 Hesure		Time	PRESS Pressure Ter		MMARY	
		(Min.) 0 2 33 63	(psig)         (deg           1668.30         99           24.83         98           26.10         102           982.88         102           28.15         102           30.72         105           916.07         105	9 F) 9.05 Initial F 9.96 Open 9.68 Shut-li 9.86 End Si 9.72 Open 9.19 Shut-li 9.33 End Si	Hydro-static To Flow (1) n(1) nut-In(1) To Flow (2)	
270				Can Pata		
Length (ft) Description	Volume (bbl)		С	Gas Rate	Pressure (psig)	Gas Rate (Mcf/d)
25.00         GV SOWCM 1%g 5%o           0.00         37' GIP 100%g				,, ,	(13)	
Trilobite Testing, Inc	Ref. No: 67162				8.06 @ 15:58	

	DRILL STEM TES	ST REP	ORT			
RILOBITE	Rockhound Petroleum, LLC		8-23s-13v	w Stafford	Co. Ks.	
ESTING, M	255 NE 30th		Dunn #1			
	St. John, Ks. 67576		Job Ticket:	67162	DST#:	:1
	ATTN: Keaton Jones.		Test Start:	2021.08.06 @	@ 08:11:31	
GENERAL INFORMATION:	+					
Formation:Lansing BDeviated:NoWhipstockTime Tool Opened:10:20:16Time Test Ended:14:15:16	ft (KB)		Test Type: Tester: Unit No:	Convention Matt Smith 68	al Bottom H	ole (Initial)
Total Depth: 3514.00 ft (KB)	<b>3514.00 ft (KB) (TVD)</b> TVD) ⊳le Condition: Fair			Elevations: B to GR/CF:	1898.00	0 ft(KB) 0 ft(CF) 0 ft
Serial #: 8737 Outside						
		2021.08.06 14:15:07	Capacity: Last Calib.: Time On Btm: Time Off Btm:		8000.00 2021.08.00	
FSI: No Blow . Pressure v				URE SUMM		
1750 Pressue 1750			Pressure Tem (psig) (deg		ion	
Recover	/		· (	Gas Rates		
Length (ft) Description	Volume (bbl)		Cho	ke (inches) Press	sure (psig)	Gas Rate (Mcf/d)
25.00 GV SOWCM 1%g 5%c						
0.00 37' GIP 100%g	0.00					

		RILL STEM TEST RE	PORT	1	F		
	ITE Rock	khound Petroleum, LLC		8-23s-13w	Stafford Co.	Ks.	
I EST		NE 30th ohn, Ks. 67576		<b>Dunn #1</b> Job Ticket: 6	7162	DST#:1	
		N: Keaton Jones.		Test Start: 2021.08.06 @ 0		-	
njædi.							
Mud and Cushion Info	ormation						
Mud Type: Gel Chem Mud Weight: 9.00 I		Cushion Type:			Oil API:	deg API	
Mud Weight: 9.00 l /iscosity: 50.00 s	-	Cushion Length: Cushion Volume:		ft bbl	Water Salinity:	4000 ppm	
Nater Loss: 8.38 i		Gas Cushion Type:		551			
Resistivity: 4000.00		Gas Cushion Pressure:		psig			
	ppm inches						
Recovery Information	ı						
	r	Recovery Table	r		1		
	Length ft	Description		Volume bbl			
	25.00	GVSOWCM 1%g 5%o 19%w 75%	%m	0.351	1		
	0.00			0.000	4		
То	tal Length:	25.00 ft Total Volume:	0.351 bbl				
	Im Fluid Samples: 0	Num Gas Bombs: 0	,	Serial #:	None		

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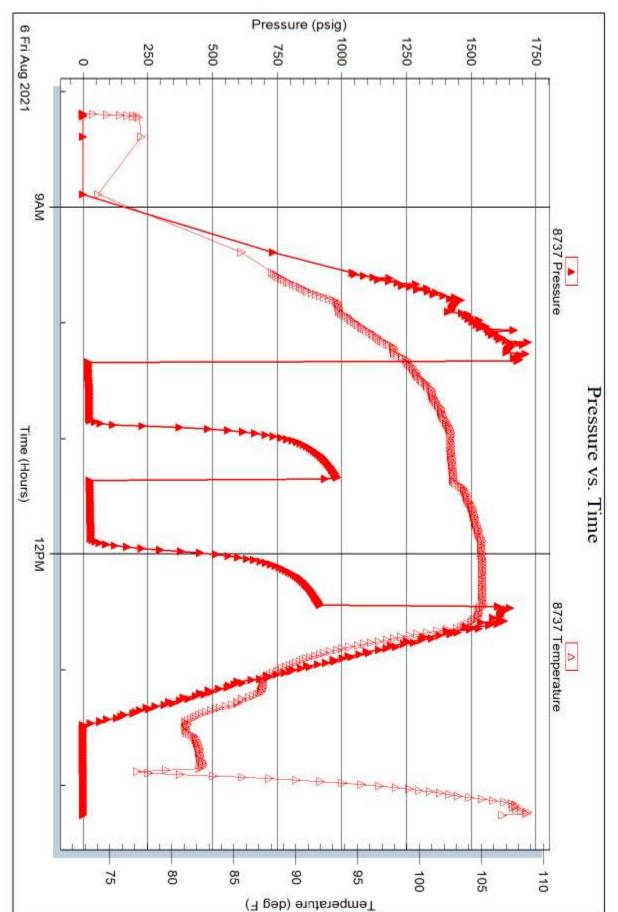
Ref. No: 67162



Printed: 2021.08.06 @ 15:58:30

Ref. No: 67162

Trilobite Testing, Inc



Dunn #1

DST Test Number: 1

Serial #: 8737 Outside Rockhound Petroleum, LLC

	DRILL STEM TES	T REP	ORT		
	Rockhound Petroleum, LLC		8-23s-13v	v Stafford C	Co. Ks.
ESTING , INC	255 NE 30th		Dunn #1		
	St. John, Ks. 67576		Job Ticket:	67163	DST#:2
	ATTN: Keaton Jones.		Test Start:	2021.08.07 @	03:12:34
GENERAL INFORMATION:					
Formation:Lansing KC "I&JDeviated:NoWhipstock:Time Tool Opened:05:45:04Time Test Ended:09:50:19	ft (KB)		Test Type: Tester: Unit No:	Conventiona Matt Smith 68	l Bottom Hole (Reset)
Interval:3620.00 ft (KB) To360Total Depth:3660.00 ft (KB) (TVHole Diameter:7.88 inchesHole	D)		Reference K	Elevations: B to GR/CF:	1906.00 ft (KB) 1898.00 ft (CF) 8.00 ft
Serial #: 8788InsidePress@RunDepth:22.81 psig ( 2021.08.07Start Date:2021.08.07Start Time:03:12:39TEST COMMENT:IF: Weak Blow. B ISI:No Blow. (30) FF: Surface Blow FSI: No Blow. (31)	End Date: End Time: uilt to .39". (30)	2021.08.07 09:50:18	Capacity: Last Calib.: Time On Btm: Time Off Btm:	2021.08.07 ( 2021.08.07 (	-
Pressure vs. Ti		1			
Tencfices	me 578 Tempenare 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Time (Min.) 0 1 32 62 62 91 130 131	Pressure (psig)         Temp (deg I)           1759.45         103.2           25.41         103.0           22.70         104.4           226.69         105.5           23.43         105.2	<ul> <li>F)</li> <li>F)</li> <li>Initial Hydro</li> <li>Open To F</li> <li>Shut-In(1)</li> <li>Find Shut-In</li> <li>Open To F</li> <li>Open To F</li> <li>Shut-In(2)</li> <li>End Shut-In(2)</li> <li>End Shut-In</li> </ul>	on o-static low (1) n(1) low (2) n(2)
Recovery				Gas Rates	
Length (ft)         Description           7.00         OSM 100%m	Volume (bbl) 0.10		Choi	e (inches) Pressu	re (psig) Gas Rate (Mcf/d)
* Recovery from multiple tests Trilobite Testing, Inc	Ref. No: 67163			ed: 2021.08.07	

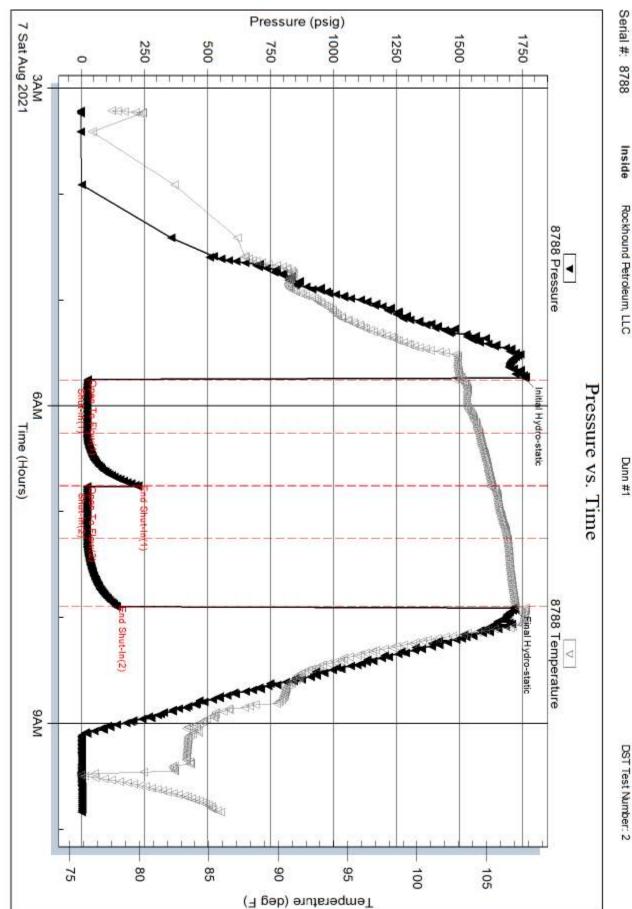
	DRILL STEM TES	ST REP	ORT			
RILOBITE TESTING, N	Rockhound Petroleum, LLC		8-23s-13w	Stafford	Co. Ks.	
ESTING, N	255 NE 30th St. John, Ks. 67576		<b>Dunn #1</b> Job Ticket:	67163	DST#	· 2
	ATTN: Keaton Jones.			2021.08.07 @	_	
GENERAL INFORMATION:						
Formation:Lansing KC "I&JDeviated:NoWhipstock:Time Tool Opened:05:45:04Time Test Ended:09:50:19	ft (KB)		Test Type: Tester: Unit No:	Convention Matt Smith 68	al Bottom H	ole (Reset)
Interval:3620.00 ft (KB) ToTotal Depth:3660.00 ft (KB) (Hole Diameter:7.88 inches H			Reference I	∃evations: 3 to GR/CF:	1898.0	0 ft(KB) 0 ft(CF) 0 ft
Serial #: 8737OutsidePress@RunDepth:psigStart Date:2021.08.07Start Time:03:12:55		2021.08.07 09:50:34	Capacity: Last Calib.: Time On Btm: Time Off Btm:		8000.00 2021.08.0	
TEST COMMENT: IF: Weak Blow ISI:No Blow. ( FF: Surface Bl FSI: No Blow.	30) ow . Died (30)					
				JRE SUMM		
		Time (Min.)	Pressure Temp (psig) (deg F		on	
Recovery				as Rates	, T	
Length (ft)         Description           7.00         OSM 100%m	Volume (bbl) 0.10		Choke	e (inches) Press	ure (psig)	Gas Rate (Mcf/d)
* Recovery from multiple tests						

100		-	DRI	LL S	TEM TEST	REPORT	Γ		FLUID SUMMAR
	FILOBITE ESTING		Rockho	ound Petro	oleum, LLC		8-23s-13w	Stafford Co	o. Ks.
	<b> </b> ESTING	G, INC.	255 NE St. Joh	30th n, Ks. 67	576		<b>Dunn #1</b> Job Ticket: 6	7163	DST#:2
			ATTN: Keaton Jones.		Test Start: 2021.08.07 @ 03				
Mud and Cu	shion Inform	ation							
Mud Type: Ge		auon		(	Cushion Type:			Oil API:	deg API
Mud Weight:	9.00 lb/ga	I			Cushion Length:		ft	Water Salinity:	-
Viscosity:	50.00 sec/o	qt			Cushion Volume:		bbl		
Water Loss: Resistivity:	8.37 in <sup>3</sup> 4000.00 ohm.	m			Gas Cushion Type: Gas Cushion Pressu	Ire.	psig		
Salinity:	ppm			,		<i>n</i> c.	psig		
Filter Cake:	0.20 inche								
Recovery In	formation			_					
	I			F	Recovery Table			7	
		Lengt ft	h		Description		Volume bbl		
			7.00	OSM 10	00%m		0.098	3	
	Total Le	ength:	7	.00 ft	Total Volume:	0.098 bbl			
		uid Samp			Num Gas Bombs		Serial #	: None	
		itory Nam ery Comn			Laboratory Loca	tion:			
	100000		ionto.						

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Ref. No: 67163

Trilobite Testing, Inc



Dunn #1

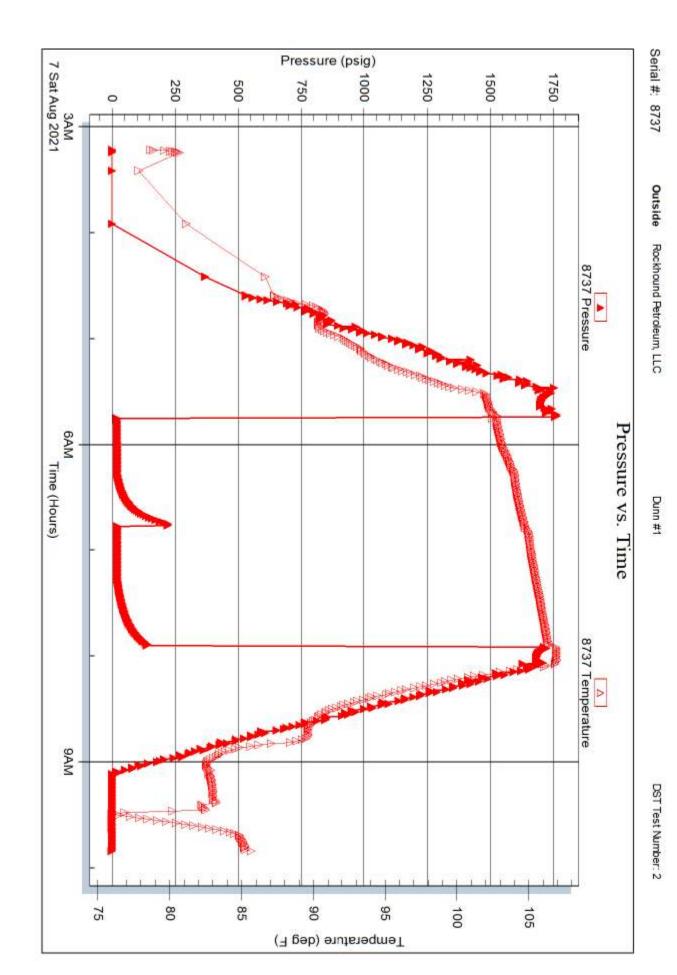
DST Test Number: 2

Inside

Rockhound Petroleum, LLC

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Ref. No: 67163



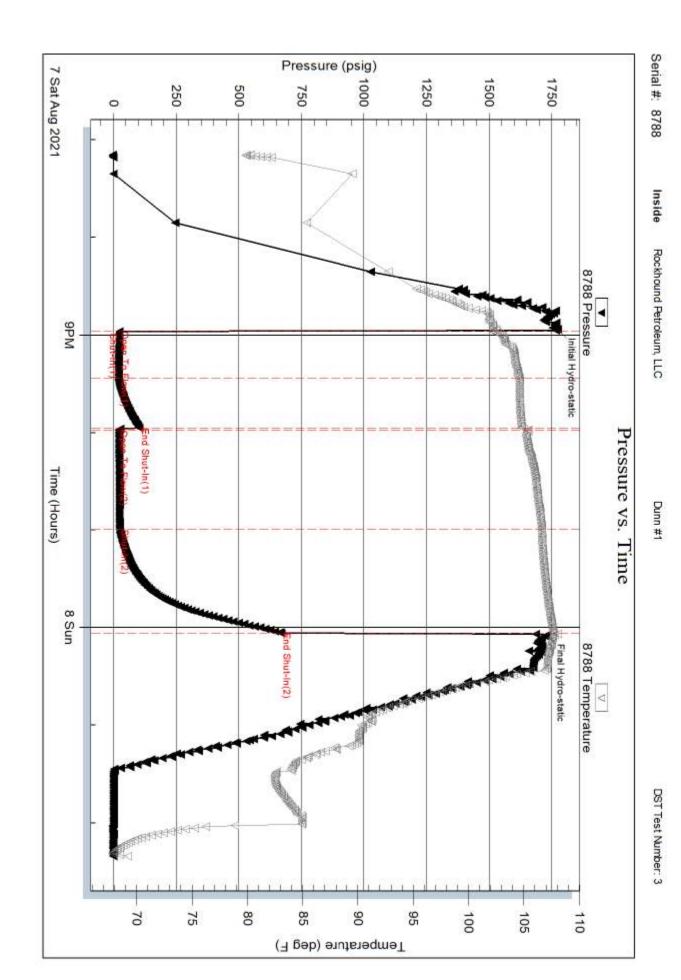
RILOBITE	DRILL STEM TE	SIREP					
	Rockhound Petroleum, LLC		8-23	3s-13w \$	Stafford C	o. Ks.	
ESTING , INC	255 NE 30th St. John, Ks. 67576			nn #1			
				Ticket: 67		DST#:3	i
	ATTN: Keaton Jones.		Test	t Start: 20	)21.08.07 @	19:09:04	
GENERAL INFORMATION:							
Formation:Lansing KC KDeviated:NoWhipstock:Time Tool Opened:20:57:34Time Test Ended:02:20:19	ft (KB)		Test Test Unit	ter:	Conventional Matt Smith 68	l Bottom Hol	e (Reset)
Interval: 3660.00 ft (KB) To 3 Total Depth: 3700.00 ft (KB) (T			Refe	erence 🛛	evations:	1906.00 1898.00	
	le Condition: Fair			KB t	o GR/CF:	8.00	
Serial #: 8788 Inside							
Press@RunDepth: 25.06 psig	@ 3661.00 ft (KB)		Capacity:			8000.00	psig
Start Date: 2021.08.07	End Date:	2021.08.08	Last Calib			2021.08.08	
Start Time: 19:09:09	End Time:	02:20:18	Time On E Time Off I		2021.08.07 ( 2021.08.08 (		
FSI: Weak Blow	. built to .70". (60)						
Pressure vs.	Time				RE SUMM		
	Time 578 Temponkre 110 12	Time (Min.)	PR Pressure (psig)	RESSUF Temp (deg F)	RE SUMMA Annotatio		
Pressure vs.	Time	(Min.) 0	Pressure (psig) 1773.32	Temp (deg F) 102.41	Annotatio	n o-static	
779 5705 Hessure 500	Time 578 Temponkre 110 12	(Min.) 0 2	Pressure (psig) 1773.32 24.46	Temp (deg F) 102.41 102.14	Annotatio Initial Hydro Open To Fl	n o-static	
7739	Time 57/3 forgendure 110	(Min.) 0	Pressure (psig) 1773.32	Temp (deg F) 102.41 102.14 104.55	Annotatio Initial Hydro Open To Fle	n o-static ow (1)	
729 578 Hesure	Time 578 (respondere 10 7 (respondere 10 10 10 10 10 10 10 10 10 10 10 10 10	(Min.) 0 2 31 61	Pressure (psig) 1773.32 24.46 21.66 104.91 20.68	Temp (deg F) 102.41 102.14 104.55 104.80	Annotatio Initial Hydro Open To Fle Shut-In(1) End Shut-Ir Open To Fle	n o-static ow (1) n(1)	
Pressure vs.	Time 578 (respondere 10 7 (respondere 10 10 10 10 10 10 10 10 10 10 10 10 10	(Min.) 0 2 31 61	Pressure (psig) 1773.32 24.46 21.66 104.91 20.68 25.06	Temp (deg F) 102.41 102.14 104.55 104.80 105.28 106.61	Annotatio Initial Hydro Open To Fle Shut-In(1) End Shut-Ir Open To Fle Shut-In(2)	n o-static ow (1) n(1) ow (2)	
250 Fressure vs.	Time 578 (respondere 10 7 (respondere 10 10 10 10 10 10 10 10 10 10 10 10 10	(Min.) 0 2 31 61 62	Pressure (psig) 1773.32 24.46 21.66 104.91 20.68	Temp (deg F) 102.41 102.14 104.55 104.80 105.28	Annotatio Initial Hydro Open To Fle Shut-In(1) End Shut-Ir Open To Fle	n o-static ow (1) h(1) ow (2) h(2)	
	Time 5.00 forporture 10 10 10 10 10 10 10 10 10 10	(Min.) 0 2 31 61 62 124 187	Pressure (psig) 1773.32 24.46 21.66 104.91 20.68 25.06 668.92	Temp (deg F) 102.41 102.14 104.55 104.80 105.28 106.61 107.64	Annotatio Initial Hydro Open To Fle Shut-In(1) End Shut-Ir Open To Fle Shut-In(2) End Shut-Ir	n o-static ow (1) h(1) ow (2) h(2)	
Pressure vs.	Time 558 response 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(Min.) 0 2 31 61 62 124 187	Pressure (psig) 1773.32 24.46 21.66 104.91 20.68 25.06 668.92	Temp (deg F) 102.41 102.14 104.55 104.80 105.28 106.61 107.64 107.71	Annotatio Initial Hydro Open To Flo Shut-In(1) End Shut-Ir Open To Flo Shut-In(2) End Shut-Ir Final Hydro	n o-static ow (1) n(1) ow (2) n(2) static	
Pressure vs.	Time 5.58 feeperate 10 10 10 10 10 10 10 10 10 10	(Min.) 0 2 31 61 62 124 187	Pressure (psig) 1773.32 24.46 21.66 104.91 20.68 25.06 668.92	Temp (deg F) 102.41 102.14 104.55 104.80 105.28 106.61 107.64 107.71	Annotatio Initial Hydro Open To Flo Shut-In(1) End Shut-Ir Open To Flo Shut-In(2) End Shut-Ir Final Hydro	n o-static ow (1) n(1) ow (2) n(2) static	s Rate (Mcf/d)
Pressure vs. 500 Freeman 200	Time 500 temporture 10 10 10 10 10 10 10 10 10 10	(Min.) 0 2 31 61 62 124 187	Pressure (psig) 1773.32 24.46 21.66 104.91 20.68 25.06 668.92	Temp (deg F) 102.41 102.14 104.55 104.80 105.28 106.61 107.64 107.71	Annotatio Initial Hydro Open To Flo Shut-In(1) End Shut-Ir Open To Flo Shut-In(2) End Shut-Ir Final Hydro	n o-static ow (1) n(1) ow (2) n(2) static	s Rate (Mcf/d)
Pressure vs.	Time 5.58 feeperate 10 10 10 10 10 10 10 10 10 10	(Min.) 0 2 31 61 62 124 187	Pressure (psig) 1773.32 24.46 21.66 104.91 20.68 25.06 668.92	Temp (deg F) 102.41 102.14 104.55 104.80 105.28 106.61 107.64 107.71	Annotatio Initial Hydro Open To Flo Shut-In(1) End Shut-Ir Open To Flo Shut-In(2) End Shut-Ir Final Hydro	n o-static ow (1) n(1) ow (2) n(2) static	s Rate (Mcf/d)
Pressure vs.	Time 500 temporture 10 10 10 10 10 10 10 10 10 10	(Min.) 0 2 31 61 62 124 187	Pressure (psig) 1773.32 24.46 21.66 104.91 20.68 25.06 668.92	Temp (deg F) 102.41 102.14 104.55 104.80 105.28 106.61 107.64 107.71	Annotatio Initial Hydro Open To Flo Shut-In(1) End Shut-Ir Open To Flo Shut-In(2) End Shut-Ir Final Hydro	n o-static ow (1) n(1) ow (2) n(2) static	s Rate (Mcf/d)
Pressure vs.	Time 500 temporture 10 10 10 10 10 10 10 10 10 10	(Min.) 0 2 31 61 62 124 187	Pressure (psig) 1773.32 24.46 21.66 104.91 20.68 25.06 668.92	Temp (deg F) 102.41 102.14 104.55 104.80 105.28 106.61 107.64 107.71	Annotatio Initial Hydro Open To Flo Shut-In(1) End Shut-Ir Open To Flo Shut-In(2) End Shut-Ir Final Hydro	n o-static ow (1) n(1) ow (2) n(2) static	s Rate (Mcf/d)
Pressure vs. 505 Pressure 500 500 500 500 500 500 500 50	Time 500 temporture 10 10 10 10 10 10 10 10 10 10	(Min.) 0 2 31 61 62 124 187	Pressure (psig) 1773.32 24.46 21.66 104.91 20.68 25.06 668.92	Temp (deg F) 102.41 102.14 104.55 104.80 105.28 106.61 107.64 107.71	Annotatio Initial Hydro Open To Flo Shut-In(1) End Shut-Ir Open To Flo Shut-In(2) End Shut-Ir Final Hydro	n o-static ow (1) n(1) ow (2) n(2) static	s Rate (Mcf/d)

	DRILL STEM TES	T REPO	DRT			
RILOBITE TESTING , INC	Rockhound Petroleum, LLC		8-23s-13	w Stafford	Co. Ks.	
ESTING , INC	255 NE 30th St. John, Ks. 67576		Dunn #1			
	ATTN: Keaton Jones.		Job Ticket: Test Start:	2021.08.07 (	DST#: ର 19:೧୨:೧4	3
				2021.00.07		
GENERAL INFORMATION: Formation: Lansing KC K						
Deviated: No Whipstock: Time Tool Opened: 20:57:34 Time Test Ended: 02:20:19	ft (KB)		Test Type: Tester: Unit No:	Convention Matt Smith 68	al Bottom He	ole (Reset)
Interval:3660.00 ft (KB) To37Total Depth:3700.00 ft (KB) (The second secon				Elevations:	1898.00	D ft (KB) D ft (CF) D ft
Serial #: 8737 Outside						
Press@RunDepth: psig Start Date: 2021.08.07	@ 3661.00 ft (KB) End Date:	2021.08.08	Capacity: Last Calib.:		8000.00 2021.08.08	
Start Time:         2021.08.07           19:09:28	End Time:	02:20:37	Time On Btm: Time Off Btm:		2021.00.00	
FSI: Weak Blow . Pressure vs. 7		1	PRESS	URE SUM	IARY	
1750 1750	STO Repeate 520 R	Time (Min.)	Pressure Tem (psig) (deg		ion	
Recovery				Gas Rates		
Length (ft)         Description           28.00         GHOCM 5%g 20%o 75%	Volume (bbl) m 0.39		Cho	oke (inches) Press	sure (psig)	Gas Rate (Mcf/d)
0.00 160' GIP 100%g	0.00					
* Recovery from multiple tests						
Trilobite Testing, Inc	Ref. No: 67164		Print	ed: 2021.08.0	8 @ 07.32.4	0

	OBITE		LL STEM TEST	REPUR		F	
	OBITE STING , INC	Rockho	ound Petroleum, LLC		8-23s-13w	Ks.	
	STING, INC		30th n, Ks. 67576		<b>Dunn #1</b> Job Ticket: 6	7164	DST#: 3
<b>N</b> 57		ATTN:	ATTN: Keaton Jones.			021.08.07 @ 19:	09:04
Aud and Cushion	Information	ļ					
/ud Type: Gel Chem			Cushion Type:			Oil API:	deg API
<i>I</i> ud Weight: 9.	00 lb/gal		Cushion Length:		ft	Water Salinity:	7500 ppm
/iscosity: 45.	00 sec/qt		Cushion Volume:		bbl		
Vater Loss: 9.	19 in³		Gas Cushion Type:				
,	00 ohm.m		Gas Cushion Press	ure:	psig		
Salinity:	ppm						
	20 inches						
Recovery Informat	tion		Recovery Table				
	Leng	gth	Description		Volume	]	
	ft				bbl	-	
		28.00	GHOCM 5%g 20%o 75%m	1	0.393	-	
	<u> </u>	0.00	160' GIP 100%g		0.000	1	
	Total Length:	28.	.00 ft Total Volume:	0.393 bbl			
	Labarataw / Na						
	Laboratory Na Recovery Com		Laboratory Loca 0 Feet of GAS in Pipe.	ation:			
			-	ation:			
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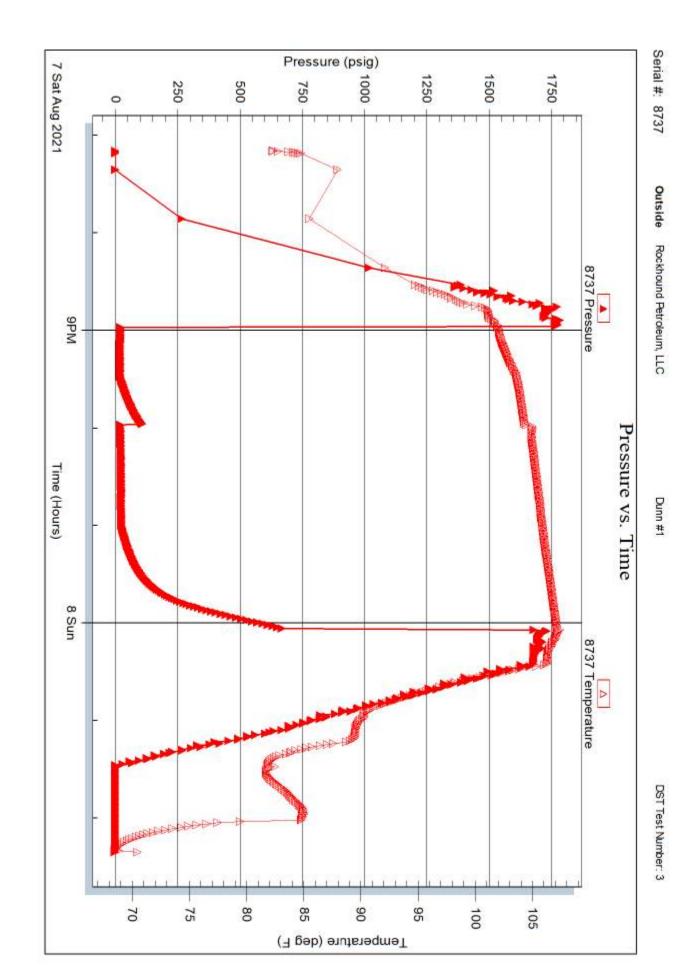
Printed: 2021.08.08 @ 07:32:40

Ref. No: 67164



Printed: 2021.08.08 @ 07:32:41

Ref. No: 67164



	DRILL STEM TES	ST REP	ORT				
	Rockhound Petroleum, LLC		8-23	s-13w S	tafford C	o. Ks.	
ESTING , I	C 255 NE 30th St. John, Ks. 67576		Dun				
				icket: 671		DST#:4	
all all a	ATTN: Keaton Jones.		Test	Start: 202	21.08.09 @	04:23:38	
GENERAL INFORMATION:							
Formation:     Viola       Deviated:     No     Whipstoc       Time Tool Opened:     07:02:53       Time Test Ended:     11:22:38	k: ft (KB)		Test <sup>-</sup> Teste Unit N	er: M	latt Smith	l Straddle (F	Reset)
Total Depth: 3968.00 ft (KB)	<b>3850.00 ft (KB) (TVD)</b> (TVD) Hole Condition: Poor		Refer	rence ⊟ev KB to	vations: GR/CF:	1906.00 1898.00 8.00	ft (CF)
Serial #:         8788         Inside           Press@RunDepth:         25.11 ps           Start Date:         2021.08.           Start Time:         04:23:	09 End Date:	2021.08.09 11:22:37	Capacity: Last Calib. Time On Bi Time Off B	tm: 20		8000.00 2021.08.09 @ 07:01:53 @ 09:14:38	psig
FSI: No Blow	Blow . Built to .33". (30)		DPI		E SUMM/		
2000	5785 Temperature	Time	Pressure	Temp	Annotatio		
1730		(Min.) 0	(psig) 1901.84	(deg F) 109.93	Initial Hydro	etatic	
1930	- 105	1	28.14		Open To Fl		
1270		33 61	24.17 53.58		Shut-In(1) End Shut-Ir	n(1)	
			24.85	110.61	Open To Fl	. ,	
7000		93 (1) 132	25.11 41.79		Shut-In(2) End Shut-Ir	n(2)	
		133	1822.51		Final Hydro		
0	- 70 						
Recove	ry			Gas	Rates		
Length (ft) Description	Volume (bbl)			Choke (ind	ches) Pressur	re (psig) Ga	s Rate (Mcf/d)
5.00 V SOHCM 2%o 98%n	n 0.07						
* Recovery from multiple tests							
Trilobite Testing, Inc	Ref. No: 67165			Printed: 2	2021.08.09	@ 13:57:15	

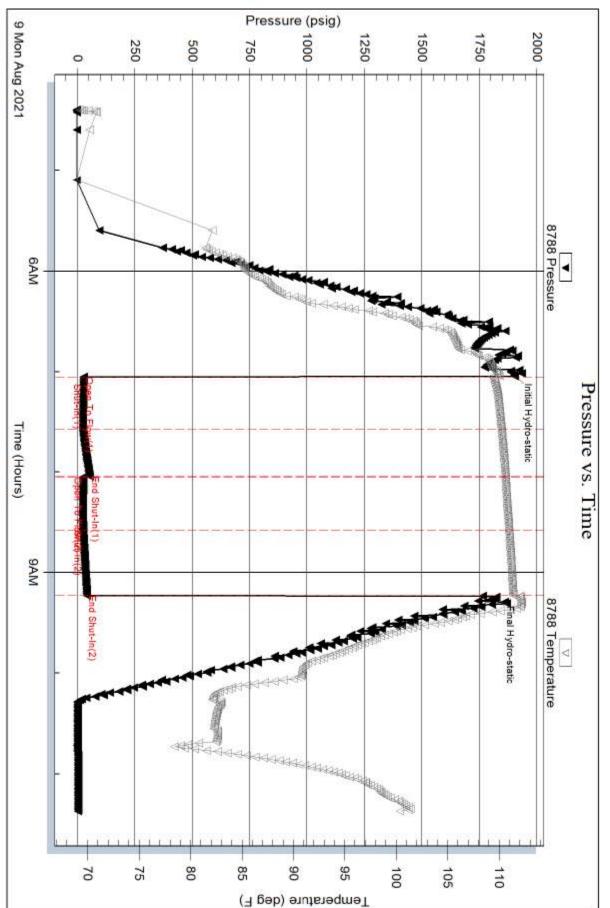
	DRILL STEM TES	T REP	ORT			
RILOBITE	Rockhound Petroleum, LLC		8-23s-13v	w Stafford	Co. Ks.	
ESTING , INC	255 NE 30th		Dunn #1			
	St. John, Ks. 67576		Job Ticket:	67165	DST#:4	
	ATTN: Keaton Jones.		Test Start:	2021.08.09 @	@ 04:23:38	
GENERAL INFORMATION:						
Formation:ViolaDeviated:NoWhipstock:Time Tool Opened:07:02:53Time Test Ended:11:22:38	ft (KB)		Test Type: Tester: Unit No:	Convention Matt Smith 68	al Straddle (F	Reset)
Interval:3791.00 ft (KB) To38Total Depth:3968.00 ft (KB) (TVHole Diameter:7.88 inchesHole	′D)			Eevations: (B to GR/CF:	1906.00 1898.00 8.00	ft (CF)
Serial #: 8737 Press@RunDepth: psig ( Start Date: 2021.08.09 Start Time: 04:23:25 TEST COMMENT: IF: Weak Blow . B ISI: No Blow . (30 FF: Surface Blow FSI: No Blow . (3)	End Date: End Time: uilt to .55". (30)	2021.08.09 11:22:49	Capacity: Last Calib.: Time On Btm: Time Off Btm:		8000.00 2021.08.09	psig
Pressure vs. Tr			PRESS	URE SUMM	IARY	
SZ3 Prosine 573 Prosine 220 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C37 Importance C37 Importance	Time (Min.)	Pressure Tem (psig) (deg		ion	
Recovery			(	Gas Rates		
Length (ft)         Description           5.00         VSOHCM 2%o 98%m	Volume (bbl) 0.07		Cho	ke (inches) Press	sure (psig) Ga	s Rate (Mcf/d)
* Recovery from multiple tests Trilobite Testing, Inc	Ref. No: 67165		Drine	ed: 2021.08.09	م <u>۱۶۰۶۲۰۱۴</u>	

RILOBI TESTI		RILL STEM TEST REPO	111	F	LUID SUMMARY
I ESTI		khound Petroleum, LLC	8-23s-13w	Stafford Co.	Ks.
		NE 30th	Dunn #1		
	St.	John, Ks. 67576	Job Ticket: 6	7165	DST#:4
NO.	AT	ATTN: Keaton Jones.		2021.08.09 @ 04:	23:38
lud and Cushion Info	ormation				
lud Type: Gel Chem		Cushion Type:		Oil API:	deg API
Aud Weight: 9.00 lb		Cushion Length: Cushion Volume:	ft bbl	Water Salinity:	17000 ppm
/iscosity: 47.00 s Vater Loss: 11.49 ir		Gas Cushion Type:	IDD		
Resistivity: 17000.00 o		Gas Cushion Pressure:	psig		
	pm				
ilter Cake: 0.20 ir					
Recovery Information		Recovery Table			
	Length ft	Description	Volume bbl	]	
	5.0	) VSOHCM 2%o 98%m	0.070	<u>_</u>	
Tot	al Length:	5.00 ft Total Volume: 0.070	bbl		
Rec	covery Comments:				

Printed: 2021.08.09 @ 13:57:16

Ref. No: 67165

Trilobite Testing, Inc



Dunn #1

Serial #: 8788

Inside

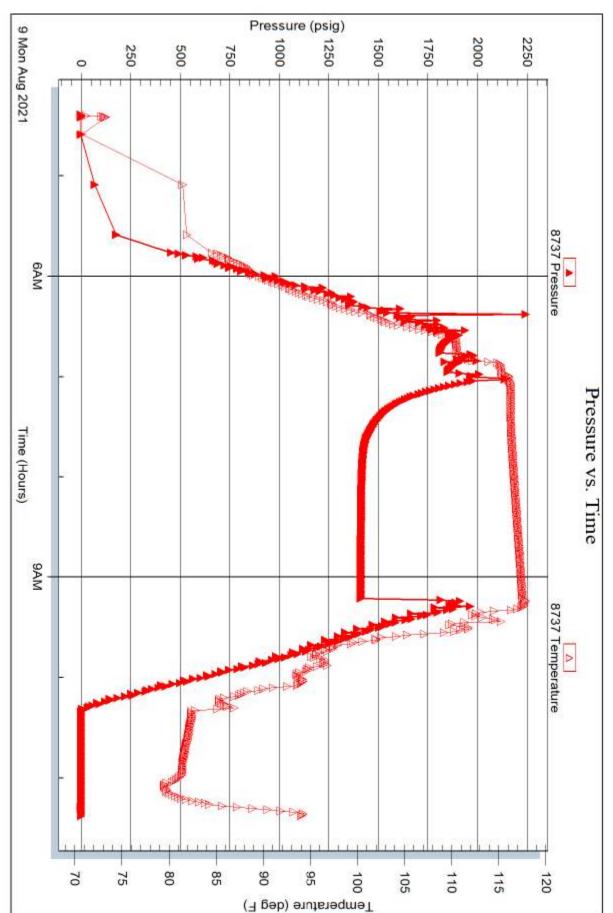
Rockhound Petroleum, LLC

DST Test Number: 4

Printed: 2021.08.09 @ 13:57:16

Ref. No: 67165

Trilobite Testing, Inc



Serial #: 8737

Rockhound Petroleum, LLC

Dunn #1

DST Test Number: 4

	مسكمه		• • • • •		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	HUSPT	$\geq$		<u> </u>
EMENT		ATMEN	TPED	OPT				(6.3)	
									•
Cust		7.00.07573770		PETROLEU	WLLC Well:	טס	NN 1	Ticket:	WP1669
		ST JOH			County:	STAFF	ORD KS	Date:	8/2/2021
Fleid	Rept	KEATO	JONE	S	S-T-R:	8-231	D-13W	Service:	8 5/8 SURFACE
Dowr	hole l	nformatio	n		Calculated Siu	rry - Lead	[	Calc	ulated Slurry - Tail
Hole	Sizes	12 1/4	In		Blend:	H-CON		Blend:	CLASS A
Hole D			ft		Weight:	12.0 ppg		Weight:	15.6 ppg
Casing		8 5/8	In		Water / Sx:	14.5 gal/sx		Water / Sx:	5.2 gal/sx
Casing D		485.43	ft		Yield:	2.47 ft <sup>3</sup> /sx		Yleid:	1.20 ft <sup>3</sup> /sx
Tubing /	Liner		In		Annular Bbls / Fta	bbs/ft.		Annular Bbis / Ft.	bbs/ft.
	epth		ft		Depth:	ft	ļ	Depth:	n
Tool / Pa					Annular Volume:	0.0 bbls		Annular Volume:	0 bbis
Tool D			ft		Excess			Excess	
Displace	ment:	29.0	bbls		Total Slurry:	70.0 bbls		Total Slurry:	37.0 bbis
TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	Total Sacks:	175 sx		Total Sacks:	175 sx
3:30 PM		1.00.200.000			ON LOCATION, SAFTEY	MEETING		950), 6 ABA	
4:45 PM					RUN 8 5/8 CASING 23#	-cino			
5:03 PM					CASING ON BOTTOM				2 <b>201</b> - 1172
5:15 PM					HOOK TO CASING, BREA	K CIRCUILATION WITH	1 PIG		
5:37 PM	5.0	170.0	3.0	3.0	PUMP 3 BBL WATER		1100	<del>3</del>	
5:38 PM	4.0	150.0	77.0	80.0	MIX 175 SKS H-CON			- 40	
5:57 PM	4.0	70.0	37.0	117.0	MIX 175 SKS CLASS A				
6:20 PM				117.0	DROP PLUG	1994			
6:23 PM	3.0	90.0		117.0	START DISPLACEMENT				
6:40 PM		125.0	29.0	145.0	PLUG DOWN, SHUT IN W	ELL.			
					CEMENT TO CELLAR				
					Note Al		ente de		
							9. 98° 21	12.	10 B.L.
									12. A
				•					
				•		100-01-01			
					JOB COMPLETE, THANK	YOUI			
					MIKE MATTAL				201 EDI:
				•	RILEY & COLE				
				•			5. TABER 1		
				•					
		CREW			UNIT			SUMMARY	1
Cem	enter:	MATT	AL		912	Averag	e Rate	Average Pressure	Total Fluid
Pump Ope	rator	OSBO	DRN		179/522		bpm	121 psi	146 bbls
	ik#1:	COB	3		181/				
Bu	lik #2:	202 1222							

9

ftv: 7-2020/11/30 mplv: 193-2021/07/23



Customer	ROCKHOUND PI	ETROLEUM LLC	Lease	& Well #	DUNN	1						Date	8	2/202	L.
Service District	PRATT		County	& State	STAF	FORDK	s	Legals S/T/R		8-23D-	13W	Job#			
Job Type	8 5/8 SURFACE	PROD				>	()	New Well?	3 YES		II No	Ticket#	v	P1665	,
Equipment#	Driver				Jo	b Safety	Analy	sis - A Discuss	lion of Ha	zards	& Safety Pro	cedures		221	
912	MATTAL	Ø Hard hat			12 Giov	es			C Locko	ut/Tage	out	C Warning Signs	& Flagging		
179/522	OSBORN	13 H2S Monito	4		12 Eye	Protectio	on		🛙 Requi	red Pen		D Fall Protection			
181/	СОВВ	a Safety Foot	vear		D Res	piratory l	Protect	tion	CI Slip/Te	rip/Fall	Hazards	D Specific Job Se	quence/Expe	ctation	15
	-	B FRC/Protect	ive Clothing		D Add	itional C	hemica	VAcid PPE	1 Overh	ead Ha	zards	D Muster Point/	Medical Locat	ions	
		P Hearing Pro	tection		O Fire	Extinguis	isher		D Additi	onal co	ncerns or issu	es noted below			
						5		Соп	nments	3				1453	
													a 26003 22	1945 C	
Product/Service Code		D	scription				U	Init of Measure	Quar	ntity				Net	Amount
CP025	H-Con						1	sack		175.00					\$3,234.00
CP010	Class A Cement							sack		175.00			·		\$2,618.00
SP100	Calcium Chloride							b		330.00				. w:	\$217.80
CP120	Cello-flake							b	1	45.00					\$69.30
FE290	8 5/8" Wooden Pl	ug						ea		1.00					\$132.00
VI015	Light Equipment N	Vileage						mi		30.00					\$52.80
M010	Heavy Equipment	l Mileage		- 32// - 42	3 - X-	98 - 0 O		mi		30.00					\$105.60
M020	Ton Mileage							tm		495.00					\$653.40
2010	Cement Pump Se	nvice						ea		1.00					\$660.00
2050	Cement Plug Con	itainer						job		1.00					\$220.00
	I								<u> </u>				I		
			-22												
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	-						_		<u> </u>						
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	<u> </u>	11-22			_	_			<u> </u>		<u> </u>		I		
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		10 - 0 - 100		- 25.55	- 1454				1	-					
							-1-		<del> </del>		l				
Cust	omer Section: On	the following sca	le how would	i you rate	Hurrica	ne Servi	ces inc	.?			<u> </u>		Net		\$7,962.90
									Total Ta	zable	s .	Tax Rate:	1	$\geq$	$\sim$
B	ased on this job, t	how likely is it ye	would ne	commend	1 HSI to	a colles	gue?	1	State Lax	laws de		fucts and services	Sale Tax:	\$	
	0 0			0 0							s to be sales ta is rolles on the	ux exempt customer provided		ê	
	umany 1 2	3 4 5		78	18876		Extern	wh Libery			bove to make a roducts are tax	e determination if	Tank		
		9258 (925) E	<u> 46</u> 77	esi 365	- T.	(1977)_		man and a state of the state of	1			•	Total:	\$	7,962.90
									HSI Re	eprese	entative:	Mike Matta	ıl		

TERMS: Cash in advance unless Humcane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 %% per month or the maximum allowable by applicable state or federal laws, in the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly indirectly indirectly incurred for such collection. In the event that Customers account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in aming at net worker, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material utimately required to perform these services, Any discount is based on 30 days net payment terms or cash. <u>DISCLAWERENTICE</u>: Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results from the customer represents and warrants that well and as a social delegiment in acceptate of thore producting be enviced and abound be used for comparison purposes and HSI makers to guarantee of future production performance. Customer represents and warrants that well and as a social delegiment in acceptate of process and exceptance of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Humcane has been provided accurate well information in determining taxable services.

CUSTOMER AUTHORIZATION SIGNATURE

ftv: 7-2020/11/30 mplv: 193-2021/07/23

1.1



Customer	Rockhound Petrole	eum	Lease & Well #	Dunn #1				Date	8/9/2021	
Service District	Oakley Ks		County & State		Legals S/T/R	8-23s-	13w	Job #		
Job Type	РТА	✓ PROD		SWD	New Well?	✓ YES	No No	Ticket #	w	P 1701
Equipment #	Driver			Job Safety An	alysis - A Discuss	ion of Hazards	& Safety Pro	cedures		
73	Josh Moiser	✓ Hard hat		✓ Gloves		✓ Lockout/Tag	jout	✓ Warning Sigr	ns & Flagging	
208	Jesse Jones	H2S Monitor		✓ Eye Protection		✓ Required Pe	rmits	✓ Fall Protectio	n	
205	Kale Oches	Safety Footwe	ear	Respiratory Pro	tection	✓ Slip/Trip/Fa	l Hazards	Specific Job S	Sequence/Exp	ectations
		FRC/Protectiv	e Clothing	Additional Che	mical/Acid PPE	✓ Overhead H	azards	✓ Muster Point	/Medical Loca	itions
		✓ Hearing Prote	ection	✓ Fire Extinguish	er	Additional of	oncerns or is	sues noted below		
					Con	nments				
Product/ Service Code		Desci	ription		Unit of Measure	Quantity	List Price/Unit	Gross Amount	ltem Discount	Net Amount
M015	Light Equipment Mil	eage			mi	30.00				\$52.80
M010	Heavy Equipment N	lileage			mi	30.00				\$105.60
M020	Ton Mileage				tm	285.00				\$376.20
C015	Cement Pump Serv	ice			ea	1.00				\$1,320.00
CP055	H-Plug				sack	220.00				\$2,516.80
		Q								
					2					
Custo	omer Section: On th	e following scale h	low would you rate	Hurricane Services	Inc.?		Gross:		Net:	\$4,371.40
	ased on this job, ho		would recommons		2	Total Taxable	\$ -	Tax Rate: ucts and services		\$ -
		3 4 5			remely Likely	used on new well	s to be sales ta s relies on the bove to make a	x exempt. customer provided determination if	Sale Tax: Total:	\$ 4,371.40
						HSI Represe	entative:	Josh Mosier		

TERMS: Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 ½% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection. Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Any discount is based on 30 days net payment terms or cash. <u>DISCLAIMER NOTICE</u>: Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

CUSTOMER AUTHORIZATION SIGNATURE



Customer: Rockhound Petrol City, State: Oakley Ks Field Rep: Josh Moiser	County:	Dunn #1 Stafford Ks	Ticket:	WP 1701
		Stafford Ks		
	6 T D.		Date:	8/9/2021
	S-T-R:	8-23s-13w	Service:	ΡΤΑ
Downhole Information	Calculated S	lurry - Lead	Calc	ulated Slurry - Tail
Hole Size: 7.875 in	Blend:	H-Plug	Blend:	
Hole Depth: 3970 ft	Weight:	13.8 ppg	Weight:	ppg
Casing Size: in	Water / Sx:	6.9 gal / sx	Water / Sx:	gal / sx
Casing Depth: ft	Yield:	1.43 ft <sup>3</sup> / sx	Yield:	ft <sup>3</sup> / sx
Tubing / Liner: in Depth: ft	Annular Bbis / Ft.:	0.0406 bbs / ft.	Annular Bbls / Ft.:	bbs / ft ft
Tool / Packer:	Depth: Annular Volume:	3910 ft 158.7 bbls	Depth: Annular Volume:	0 bbls
Tool Depth: ft	Excess:	130.7 0015	Excess:	0 0013
Displacement: 14.7 bbls	Total Slurry:	56.0 bbls	Total Slurry:	0.0 bbls
	TOTAL Total Sacks:	220 sx	Total Sacks:	0 sx
TIME RATE PSI BBLs	BBLs REMARKS			
2:00p.m	- Arrive			
2:05p.m.	- Safety meeting			
2:10p.m.	- Rig up			
4:06p.m. 3.0 150.0 5.0	5.0 H20 ahead			
4:08p.m. 3.0 200.0 12.7	17.7 Mixed 50 sks of H-Plug			
4:12p.m. 3.0 250.0 5.0	22.7 Displaced H20 with tru			
4:18p.m. 4:22p.m.	22.7 Displaced mud with rig 22.7 Pull pipe to 810'	for 3 minutes		
6:23p.m. 4.0 250.0 12.7	35.4 Mixed 50 sks of H-Plug	i at 810'	8	
6:27p.m. 4.0 200.0 7.0	42.4 Displaced H20			
6:35p.m.	42.4 Pull pipe to 510'			
6:50p.m. 4.2 200.0 8.3	50.7 Mixed 50 sks of H-Plug	ı at 510'		
6:53p.m. 4.0 200.0 2.7	53.4 Displaced H20			
6:56p.m.	53.4 Pull pipe to surface			
8:23p.m. 1.5 50.0 3.2	56.6 Mixed 20 sks of H-Plug	j at 60'		
8:26p.m. 1.5 50.0 3.2	59.8 Mixed 20 sks of H-Plug			
8:30p.m. 1.5 50.0 5.0	64.8 Mixed 30 sks of H-Plug	in Rat hole		
8:31p.m.	Plug down			
8:45p.m. 8:58p.m.	Rig Down Leave location			
6.56p.m.				
CREW	UNIT		SUMMAR	
Cementer: Josh Moiser	73	Average Rate	Average Pressure	Total Fluid
Pump Operator: Jesse Jones	208	3.0 bpm	160 psi	65 bbls
Bulk #1: Kale Oches Bulk #2:	205			

## MUD LOG WellSight Systems

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

 Well Name:
 Dunn #1

 API:
 15-185-24085

 Location:
 1070 FNL - 1415 FWL - Sec. 8 - Twp. 23S - 13W

 License Number:
 35657

 Spud Date:
 08/02/2021

 Surface Coordinates:
 Drilling Completed:

Bottom Hole Coordinates: Ground Elevation (ft): 1898 K.B. Elevation (ft): 1906 Logged Interval (ft): 3000 To: T.D Total Depth (ft): 3970 Formation: Arbuckle Dolomite @ Total Depth Type of Drilling Fluid: Chemical Drispac (Andys) Printed by MudLog from WellSight Systems 1-800-447-1534 www.WellSight.cor

#### OPERATOR

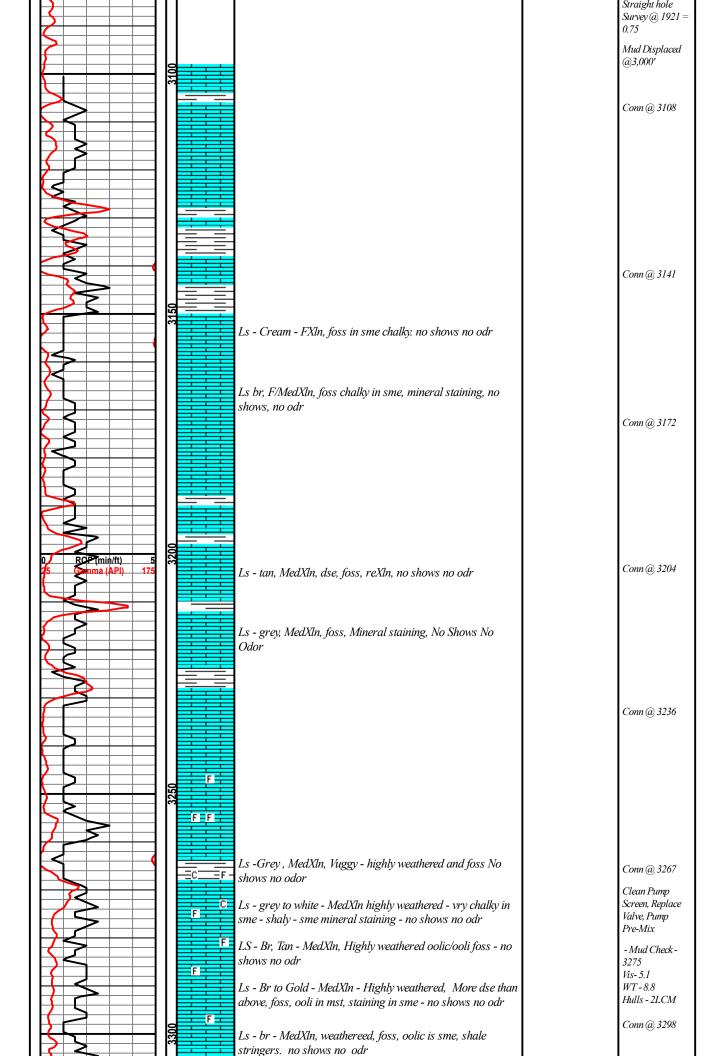
Company: Rockhound Petroleum, LLC Address: 255 NE 30th St. John KS 67576

#### GEOLOGIST

Name: Keaton Jones Company: Rockhound Petroleum, LLC Address: 255 NE 30th St. John KS 67576 (620)-546-4010

		ROCK TYPES			
Anhy	Coal Congl Dol Gyp	Lmst Meta TTTT Mrlst Salt Shale	Shcol Shgy Sitst Sitst Ss Till	0	Cfs

					ACCESSORI	ES				
	IERAL Anhy Arggrn Arg Bent Bit Brecfrag Calc Carb Chtdk Chtlt Dol Feldspar Ferrpel Ferr Glau		Gyp Hvymin Kaol Marl Minxl Nodule Phos Pyr Salt Salt Salt Silt Sil Sulphur Fuff	F09 ■	SIL Algae Amph Belm Bioclst Brach Bryozoa Cephal Coral Crin Echin Fish Foram Fossil Gastro Oolite		Ostra Pelec Pellet Pisolite Plant Strom INGER Anhy Arg Bent Coal Dol Gyp Ls Mrst	TEXT BS C C E E E S E S E S E S E S E S E S E	Sitstrg Ssstrg URE Boundst Chalky Cryxin Earthy Finexin Grainst Lithogr Microxin Mudst Packst Wackest	
POI E	ROSITY		/uggy		THER SYMB JNDING Rounded	OLS	Even Spotted		Rft	
	Fenest Fracture Inter Moldic Organic Pinpoint	M	ING Well Moderate Poor	a A	Subrnd Subang Angular SHOW Cfs		Ques ERVAL Core Dst 2 Dst		Sidewall	
	Curve Track 1 ROP (min/ft) Gamma (API)	=	Lithology		Geological Desc	riptions		Drill Stem Tests	Drilling Fluid, Surveys, Etc.	
	0 ROP (min/ft) 25 Gamma (API)	5 0E								
		3050								
									Straight hole Survey @ 485' = 0.75	



			Ls - br, As Above No Shows No Odr		
	B-Heeb (-1426)		Ls - Br, Fxln, dse, sme foss, no shows no odr Sh - Bl Fiss w/ Gas - No Odr No OII Shows		Conn @ 3329 Clean Pump Screen
			Sh - Di Fiss W Gus - No Gur No On Shows		
		22ED	Ls -cream - F-MedXIn, DSE, sme mineral stain no shows no		
	Douglas		odor		Conn @ 3361
			SH - Grey - waxy in sme		
					- Mud Check - 3390 Vis: 51
			Sh - grey to green sandy in prt		WT: 8.8 Hulls 2 LCM Conn @ 3392
	0 ROP (min/ft) 5 25 Gamma (API) 175	5401			
			As Above		Conn @ 3424
			As Above		- Mud Check- Vis: 51 WT: 8.7
	Brown Lime	34ED			Conn @ 3456
	(-1557)				
			Ls - Br FXIn, Vry Dse, Foss in sme, No Shows No Odr		- Mud Check - Vis: 51 WT: 8.8
	Lansing (-1576)_	$\parallel$			
	Lansing "B"(-1590)		Ls - Br,Cream, F/MedXIn Dse, ReXLN Spirite, Abundant Pirite, No SHows No Odr		Conn @ 3487
		3500	Ls - cream, F/MedXLN, pin point porosity, vuggy, weathered, sme oolic, RexIn sparite, show of free oil, show of gas when	- DST - Lansing "B" Interval - 3498-3514 25' Total Recovery 37' GIP	Short trip - pulled all pipe found hole 6 stands above collars
•	CFS-3514		broken, fair odr. Sh - Grey	25' GVSOWCM -1%G - 19%WTR - 5%O - 75%Mud	Straight Hole Survey @ 3514 = 0.75
				IH:1668-FH:1640 IF: 25-26 FF: 28-31	Conn @ 3517

			<pre></pre>							SIP 983-916 FH:1640	
	E		1	_					Ls - grey, highly vuggy, 1-2 pieces w/ oil show in vugs, no	ГП.1040	
	<	Ś				0			free oil, No gas shows, Hit and miss odor.		- Mud Check - VIS: 51
		≫									WT: 8.9 LCM: 1#
							3550	F	Ls - Br, MedXln, foss, vuggy, good porosity, faint odor if any, 1/2 pieces with oil show. no Gas shows		
	K		>CF.	S-35:	56—	ľ	с С		After reviewing - E-Logs calculated wet		- Mud Check - VIS: 50
Ì	H			ing "C					Ls - grey - Lrge XIn - shaly, foss, dse, No shows No Odor		WT: 8.8 LCM: 1#
	5		(-105	o) 							
	$\leq$	5		_		0			Ls - Grey - MedXIn, Dse, PinPoint Por, Show of oil when broken, slight show of Gas, Faint if any Odor		
	<pre>{</pre>	7	>						After reviewing - E-Logs calculated wet		
	E	$\nearrow$		_							Conn (a) 3580
	ζ	$\geq$									Conn (a) 5580
	Ŧ	3		_							
	2	$\geq$	>				00				
	0 <b>ک</b> 25	Gam	(min ma (/	v/ft) <mark>API)</mark>	5 175		36				
	5	Ź	>						LS - br, MedXln, Highly oolitic, 1-2 Pieces oolicastic, Dse No		Conn @ 3612
	$\geq$	-	}	_					Shows No odor		
		> {	5								
		3									
			>		•	•			Ls - Cream, MedXln, vuggy, vry heavy oil and gas show,		
			$\mathbf{z}$						Ls - Grey - MedXIn, Highly Foss, Dse, Sme oolitic, No		
	5	Lansing	ς "J" (	-1738	) 				Shows No Odr		Conn @ 3643
	5		>				50		Ls - Br, MedXln, PinPoint Porosity, Vuggy in Sme, Show of	-DST 2- Lansing I/F Interval: 3620-3660	- Mud Check -
	5	$\geq$				•	3650		free oil and gas when broken Slight odor	Total Recovery: 7' DM 100%	3660 WT: 9.1
					2660					IH: 1759	VIS: 45 Filtrate: 9.2
Ĩ	-Lans	ing "K"	_	-S@.	3660-					IF:25-23 FF:23-23	CHL: 7500
			5							SIP:227-141 FH: 1714	
	5	$\langle$				•			Ls - cream, MedXln, Vuggy porosity, oolicastic Mstly without	- DST 3- Lansing K	Conn @ 3674
	Ł		$\overline{\langle}$						interconnecting porosity, Vry Heavy oil show, Well Saturated, decent show of gas, Fair oder when shaken.	Interval 3660-3700 Total Recovery:	- Mud Check -
	5			>		•				160' GIP 28" VHOCM: 5% G, 20% Q. 75% Mud	3683 Vis: 50 WT: 8.9
	E			$\geq$					Ls Cream/Buff, DSE, Med/FXIn, Oil Staining Free oil when broken, Ooli. Faint Odor	20% O, 75% Mud IH: 1773	LCM: 1
6				-S@	3700-	•	00			IF: 24-22 FF: 21-25	
			>				37			SIP: 105-669 Building FH: 1729	
			2								Conn @ 3705
			5						BKC - Shale		
		$\geq$		BKC (-181							
				101	<i></i>	Η	Η				
		$\mathbf{k}$									
			/						Ls -brown, dolomtic, MedXln, Vry Dse Sandy in part, no		Conn @ 3737
		}	Ę						Ls -brown, abiomitic, Meanin, vry Dse Sanay in pari, no shows		

	01250		Sandy LS - Purple shaly MedXln, vry dse. poorly sorted sand andgular no shows no odor chert, Ls, Sandy and shaly conglomerate with various colors		Conn @ 3768 - Mud Check - VIS: 51 WT: 9.1
0 ROP(mig/ft) 5 25 Secure (API) 175 //lola (-1910)	CCCC	0         0	Ch, Brown, oolitic, no apparent porosity, no shows no odor	DOT	Conn @ 3799 - Mud Check- VIS: 51 WT: 9.1
Simpson (-1945)	•	000 00 00 00 00 00 00 00 00 00 00 00 00	CH, white, tripolitic in most, vry dse, free oil in tray, live oil and gas, some odr Ch - brown and white, chalky in some and soft, tripolitic in parts, well saturated with oil, some gas, fair odor. CH - black, highly tripollitic porosity, excellent saturation of oil and gas. fair odor free oil in trays throughout entire viola section	- DST - Interval: 3791-2850 Total Recovery: 5' Mud IH: 1901 IF:28-24 FF:25-25 SIP: 54-42 FH: 1823	Conn @ 3831
CFS-3894-	0		Shale terq/blue SS - green shaly, DSE, sub angular poorly sorted, calcitic matrix, residual oil staining, few samples with oil shows SS, clear, clean, sub rounded well sorted, calcitic matrix, No oil shows, very few gas bubbles when broken, Faint odor if any SS, Black, poorly sorted, sub angular, calcitic matrix, live oil on brake in few, residual oil staining in most. faint odor if any		Conn @ 3862 - Mud Check- 3889 WT: 9 VIS: 47 FILT: 11.6 CHL: 17,000 LCM: 1.5 Conn @ 3893
• CFS-3904 (-2004) • CFS-3921			Recommend evaluating Simpson Section on logs Mostly Dol - Trashy arbuckle top, very cherty oolitic, highly weathered, No clean dolomite. No Shows No Odor Dol - pink, Med/Fine Xln, vuggy, sucrosic in sme, no shows no odor Dol - Brown to tan, sucrosic and vuggy porosity, Med/FineXln and reXln, sparite, no shows No odor		Conn @ 3925
	2050		Arbucklewas consist throughout with no shows or odors in		Conn @ 3956

		FX /	any samples.	R.T.D 3970 L.T.D 3968
•			After reviewing the E-logs and testing the viola, I recommend plugging	Survey @ 3/4 degrees
0 ROP (min/ft) 5 25 Gamma (API) 175	4000			
	4050			
	7			
	00			