KOLAR Document ID: 1744152

Confiden	tiality Re	quested:
Yes	No	

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

Form ACO-1 January 2018 Form must be Typed Form must be Signed All blanks must be Filled

WELL COMPLETION FORM

		DECODIDEIO		
WELL	HISTORY	- DESCRIPTIO	N OF WELL	& LEASE

OPERATOR: License #	API No.:
Name:	Spot Description:
Address 1:	
Address 2:	Feet from Dorth / South Line of Section
City: State: Zip:+	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxx) (e.gxxx.xxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
	Producing Formation:
Oil WSW SWD Gas DH EOR	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)
	Chloride content: ppm Fluid volume: bbls
Commingled Permit #:	Dewatering method used:
Dual Completion Permit #:	
SWD Permit #:	Location of fluid disposal if hauled offsite:
EOR Permit #: GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	Quarter Sec TwpS. R East _ West
Recompletion Date Reached TD Completion Date of 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: 1744152

Operator Name:	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	acate)	Y	′es 🗌 No			og Formatio	n (Top), Depth a	and Datum	Sample
Samples Sent to Geolo			⁄es 🗌 No	1	Name	Э		Тор	Datum
Cores Taken Electric Log Run Geologist Report / Mud List All E. Logs Run:		□ Y □ Y	Yes ☐ No Yes ☐ No Yes ☐ No						
		Rep	CASING ort all strings set-c] Ne	w Used rmediate, productio	on. etc.		
Purpose of String	Size Hole Drilled	Siz	ze Casing et (In O.D.)	Weight Lbs. / Ft.		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
[ADDITIONAL	CEMENTING /	SQU	EEZE RECORD			
Purpose:	Depth Top Bottom	Туре	e of Cement	# Sacks Use	d		Type and	Percent Additives	
Protect Casing Plug Back TD Plug Off Zone									
 Did you perform a hydra Does the volume of the Was the hydraulic fracture 	total base fluid of the	hydraulic fr	acturing treatment		-	☐ Yes ns? ☐ Yes ☐ Yes	No (If No, s	kip questions 2 ar kip question 3) ill out Page Three	
Date of first Production/Inj Injection:	jection or Resumed Pr	oduction/	Producing Meth	iod:		Gas Lift 🗌 O	ther <i>(Explain)</i>		
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Wate	er Bb	ls.	Gas-Oil Ratio	Gravity
DISPOSITIO	DISPOSITION OF GAS: METHOD OF			IETHOD OF COM	MPLE	TION:			ON INTERVAL:
Vented Sold (If vented, Subn	Used on Lease		Open Hole		rf. Dually Comp. Commingled (Submit ACO-5) (Submit ACO-4)			Bollom	
	foration Perform Top Botto		Bridge Plug Type	Bridge Plug Set At					
TUBING RECORD:	Size:	Set At:		Packer At:					

Form	ACO1 - Well Completion
Operator	Patterson Energy LLC
Well Name	ROLFS 1
Doc ID	1744152

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	341	Common	200	3%C2%G
Production	7.875	5.5	1550	3323	Common	225	10%S5% G

AUSTIN B. KLAUS

Cell 785.650.3	3629 PO BOX 352
Work 785.483	2145 Duggell VS 47445
W UI K 785.485	Russell, KS 67665
Ext 225	austin.klaus@johnofarmer.com
	Scale 1:240 (5"=100') Imperial
	Measured Depth Log
Well Name:	Rolfs #1
	15-053-21390-00-00
	Ellsworth County
License Number:	Region: Kansas
Spud Date:	10/18/2023 Drilling Completed: 10/23/2023 Section 14 - Township 17 South - Range 9 West
Sunace Coordinates.	2310' FSL & 1320' FEL
Bottom Hole	Vertical well w/ minimal deviation, same as above
Coordinates:	,
Ground Elevation (ft):	
Logged Interval (ft):	
	Lansing-Kansas City - Arbuckle
Type of Drilling Fluid:	Chemical (Andy's Mud)
	Printed by StripLog from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Patterson Energy, LLC Address: PO Box 400 Hays, KS 67601

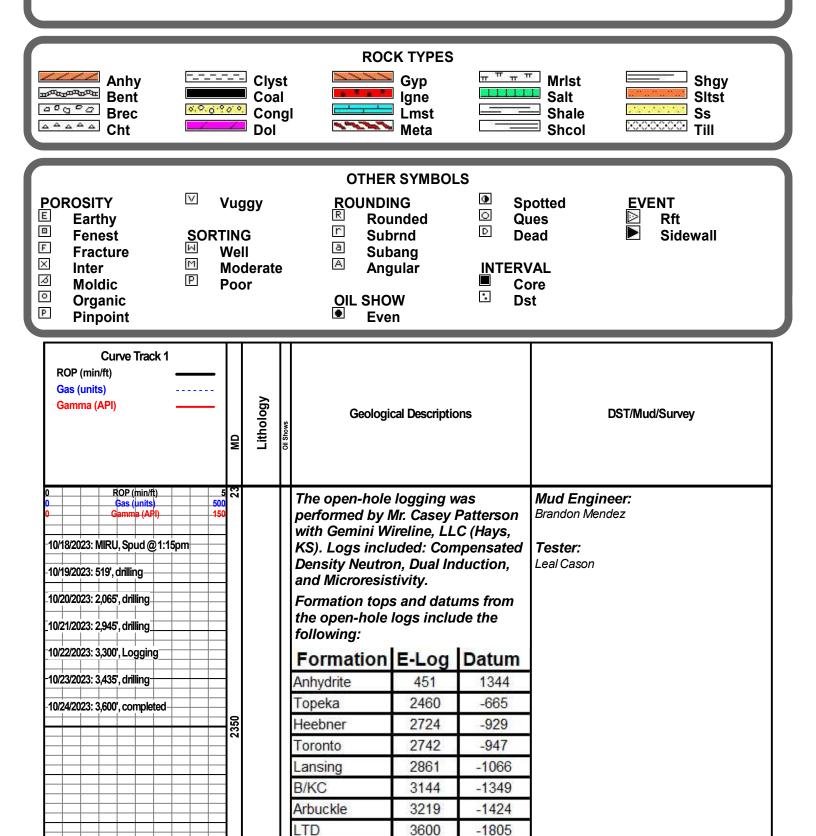
GEOLOGIST

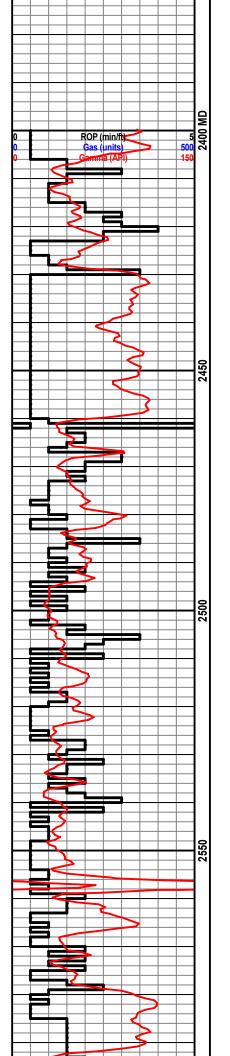
Name: Austin Klaus Company: John O. Farmer, Inc. Address: PO Box 352 Russell, KS 67665

Comments

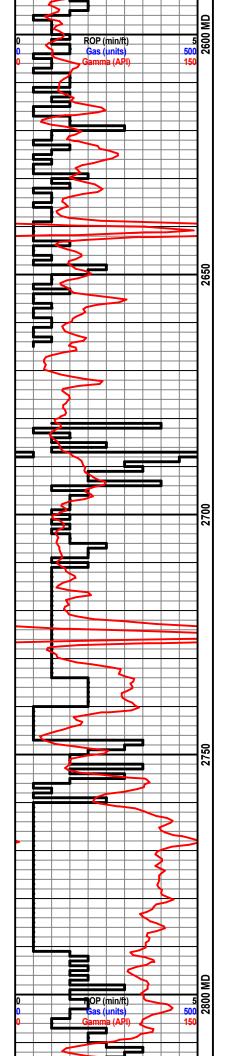
The Rolfs #1 well was drilled by Discovery Drilling Inc. Rig #2 (Tool Pusher: Travis Schmidt).

Drilling time was recorded, and rock samples were collected and evaluated from 2,400'- 3600'. Oil shows were encountered in the LKC C,J & Arbuckle. Structurally, the Lansing top was picked 2' high to the comparison well, located 330' west (Rolfs #5 - 1935). Structure remained consistent throughout the LKC. The Rolfs #1 encountered a thick shale section just above the Arbuckle. As a result, e-logs showed the Arbuckle 23' low to the Rolfs #5. After comprehensive evaluation of all oil shows, electric logs, and structural position, it was decided that a straddle test be conducted over the top 6' of the Arbuckle. The drill-stem test yielded 1197' water, 315' wcm (50%m, 50%w) 1128-1125#. After the test, it was decided the well should be taken to 3600' total depth to have the ability to be utilized as a salt-water disposal well. On October 23, 2023, 5-1/2" production casing was set to further evaluate the Rolfs #1.

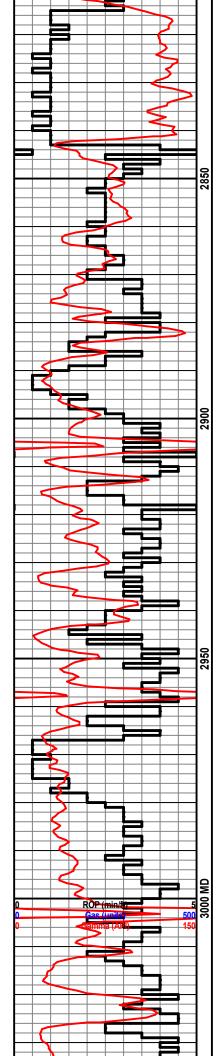




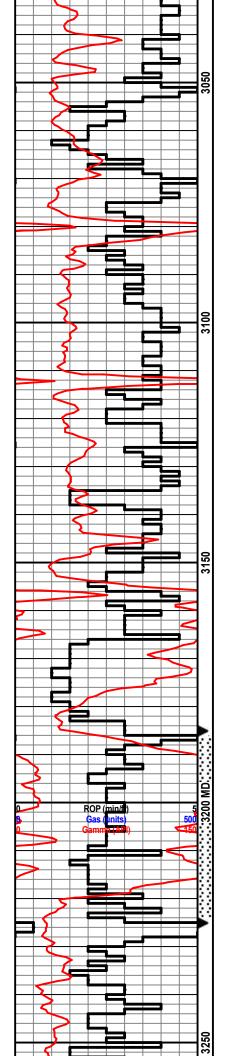
Ls: tan-gry-buff, fn-sub xIn, mostly DNS	
Sh: It gry	
Sh: ala	
Topeka 2463' (-668) Ls: tan-gry, fn-sub xln, mostly DNS	
Ls: tan-gry-buff, fn xln, mostly DNS	
Ls: off wh-tan-gry, fn xln, poor-fair int xln porosity, mostly barren	Wt: 8.6 Vis: 55
Ls: tan-It gry, fn xIn, mostly DNS, scat chalk	
Ls: tan-It gry, fn-sub xIn, DNS, scat chert	
Sh: drk gry-blk	
Ls: tan-gry, fn-sub xin, mostly DNS	
Sh: lt-drk gry	



Ls: off wh-tan-gry, fn xln, scat int xln porosity, mostly barren, scat chalk	
Ls: tan-buff, fn-sub xln, scat-poor int xln porosity, scat chalk	
Sh: drk gry-blk	
Ls: off wh-tan, fn xln, poor-fair int xln porosity, barren	
Ls: tan-gry, fn xln, mostly DNS	
Ls: tan-It gry, fn-sub xln, DNS, scat foss, scat chalk	
Sh: lt-drk gry	
Ls: off wh-tan-It gry, fn xln, scat fair int xln porosity, barren, scat foss	
Heebner 2729' (-934) Sh: blk, carb, fissile	
Sh: It-drk gry	
Toronto 2748' (-953) Ls: off wh-tan, fn xln, poor int xln porosity, barren	
Sh: lt gry-bm	Wt: 8.9
Sh: It gry	Vis: 54
Sh: ala	
Sh: It-drk gry	



Sh: It gry Sh: ala Brown Lime 2843' (-1048) Ls: off wh-tan, fn xln, poor int xln, mostly DNS, NSFO Sh: It-drk gry Lansing 2864' (-1069) Ls: tan-gry, fn xin, mostly DNS Ls: tan-gry, fn xln, no visible porosity, barren Sh: It-drk gry Ls: off wh-tan, fn xln, ool, fair- few rx good oom porosity, scat oil stn in porosity, SSFO, sl odor Sh: It-drk gry Ls: off wh-tan, fn xln, fair int xln porosity, scat dead oil stn w/NSFO, no odor Sh: It gry Ls: off wh-tan, fn xln, fair-good int foss porosity, scat oil stn, sl odor, scat chalk Sh: drk gry Ls: off wh-tan, fn xln, foss, scat poor int xln porosity, barren, scat chert Sh: drk gry-blk Ls: off wh-tan, fn xln, ool, fair-good oom porosity, sl oil stn in porosity, NSFO, no odor Ls: off wh-tan, fn xln, poor int xln porosity, barren Ls: off wh-tan, fn xln, mostly barren Sh: drk gry-blk Ls: off wh-tan, fn xln, scat foss, poor int foss porosity, barren Sh: It-drk gry



Ls: off wh-tan, fn xln, scat foss, poor int xln porosity, barren	
Sh: lt-drk gry	Wt: 9 Vis: 55
Ls: off wh-tan, fn xln, foss, fair-good int xln & int foss porosity, scat fair oil stn, VSSFO, sl-fair odor	
Sh: lt-drk gry	
Ls: off wh-tan, fn xln, poor-fair int xln and fair pp vuggy porosity, fair oil sat, SSFO, fair odor	
Sh: drk gry-blk	
Ls: off wh-tan, fn xln, scat int xln porosity, scat foss, NSFO	
Ls: off wh-tan, fn xln, few pcs w/ poor int xln porosity, barren, scat chert	
Sh: drk gry-blk	
Ls: off wh-tan, fn xln, scat int xln porosity, most rx DNS, NSFO, chert-off wh, scat foss	
Ls: tan-gry, fn xln, fair int xln & scat pp vuggy porosity, NSFO	
B/KC 3147' (-1352)	
Ls: tan-gry, fn-sub xln, DNS, scat chert	
Sh: It-drk gry, scat bm	
Sh: It gry-bm	
Ls: tan-gry, DNS, scat sh: waxy gm	DST 31
Sh: abund waxy gm-blue, scat ss: fn gm, md, well sorted, friable, NSFO	IF: strong back FF: stron
Arbuckle 3199' (-1404)	back Rec: 11 50%W)
Dolo: off wh-tan, fn-md xln, fair-good int xln (suc), good oil sat, S-FSFO, SFO in cup, good odor	FP: 67-30 SIP: 1128 HP: 1600
Dolo: off wh-tan, fn-md xln, fair-good int xln (suc) porosity, good oil sat, F-GSFO, good odor	
Dolo: off wh-tan, fn-md xln, fair int xln porosity, fair oil sat, SSFO, good odor	
Dolo: off wh-tan, fn xln, fair int xln porosity, poor-fair oil sat_SSEO, good odor	· 1

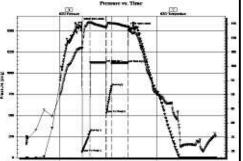
185-3225' (Top 6' of Arbucke) 15"-30"-10"-30"

g blow, BOB in 2 minutes, no blow

ng blow, BOB in 30 seconds, no blow

197' Water, 315' WCM (50%M,

808, 530-845# 8-1126# 0-1541#



ł		-(_	⇒ †					276-04382	1.00	Test (Franc)
			Ņ											
					E						Dolo: off wh-tan-bm, fn-md xln, poor-fair int xln porosity, vry lt oil stn, SSFO, fnt odor, scat chert-off wh			
						F								
					F									
ł					-						Dolo: off wh-tan-bm, fn-md xln, poor int xln porosity, barren, scat chert-off wh			
											Dolo: ala			
					Ē					3300				
				-					-1		Dolo: tan-bm, fn-md xln, poor int xln porosity, barren,			
											chert-off wh			
				_										
											Dolo: off wh-tan, fn-md xln, DNS, scat chert-off wh			
			E	=										
											Dolo: tan-bm, fn-md xln, mostly DNS, few pcs w/			
											poor-fair int xIn porosity, scat pyrite			
ł														
ł										3350	Dolo: ala, scat sh: lt gry-gm-turq			
			-								Dolo: tan-bm, fn-md xln, scat poor int xln porosity, chert: off wh, scat sh: It gry-bm			
								=			Dolo: ala			
	_					F					Dolo: off wh-tan-bm, fn-md xln, poor-fair int xln porosity, hvy chert: off wh-wh, scat sh: gry-gm			
											They chert. On whe will, sear Sh. gry-gin			
					-									
	0			R	OP (I				5	3400 MID	Dolo: ala			
	0			(Gas (µ amma	nits)			500 150	34				
											Dolo: off wh-tan-bm, fn-md-crs xln, fair int xln porosity, scat chert: off wh-wh, scat sh: It gry-gry			
			e											
											Dolo: ala			
											Dolo: off wh-tan-lt bm, md-crs xln, few rx w/ fair-good int xln porosity, barren, chert: off wh-wh			
		_												
			Ħ		=					3450	Dolo: tan-bm, fn-crs xln, good int xln porosity in few rx,			
						₽					barren, chert: off wh-wh			
ļ	-													
ŀ				-							Dolo: ala			
			i I.	- 1										

	Dolo: tan-bm, md xin, mostly DNS, few rx poor int xin porosity, scat sh: It gry	
3500	Dolo: tan-bm-lt gry, fn-md xln, poor int xln porosity, chert: off wh-wh, scat sh: drk gry	
	Dolo: ala	
	Dolo: tan-lt gry, fn-md xln, mostly DNS, chert: off wh, barren	
	Dolo: ala	
3550	Dolo: off wh-lt gry, fn-md xln, fair int xln porosity, barren	
	Dolo: ala	
	Dolo: off wh-tan-It gry, md-crs xln, fair-good int xln porosity, barren, chert: off wh	
QW	Dolo: ala	

416 Main Street P.O. Box 225 Victoria, KS 67671 Office (785) 639-3949 24 Hour Service Line (785) 639-7269

Invoice

Date	Invoice #
10/18/2023	1094
Remit Pa 416 Main Stree Victoria, Billing Question (785) 6	m this Invoice. syment to: et PO BOX 225 KS 67671 ns-Call Tianna at 39-3949 field@yahoo.com
	nse Number 469

Bill To

Patterson Energy, LLC PO Box 400 Hays, KS 67601-0400

ILALLO

		County/State	Le	ase/Well#		Terms		Job Type
		Ellsworth County, KS		Rolfs #1		Net 30		Surface
	Description			Quantity		Rate		Amount
Pump Charge Mileage Ton Mileage (min.) 80/20 3%CC 2% Gel Discount	Martfall.				1 50 1 200	950. 6. 600. 20. -302.	.50 .00 .90	950.00 325.00 600.00 4,180.00T -302.75

Accounts Due Net 10th. 1-1/2% Per Month on all Past Due Accounts. 18% Annual Rate.	Subtotal	\$5,752.25
We appreciate your business and look	Sales Tax (7.5%)	\$297.83
forward to serving you again!	Balance Due	\$6,050.08

FRANKS Oilfield Service ◆ 815 Main Street Victoria, KS 67671 ◆ 24 Hour Phone (785) 639-7269

1094 TICKET NUMBER LOCATION Victoria FOREMAN Jam Willioms

♦ Office Phone (785) 639-3949

♦ Email: franksoilfield@yahoo.com

FIELD TICKET & TREATMENT REPORT

				CEMEN	T ·			
DATE	CUSTOMER #	WEL	L NAME & NUM	BER	SECTION	TOWNSHIP	RANGE	COUNTY
10-15-23	34 888	RATES		# 1	14	12	9	Ellsworth
CUSTOMER D.	DERGAN L						TRUCK #	
MAILING ADDRI	(<u>/ 20 %()/ </u>	<u>nergy</u>		-	TRUCK #	DRIVER Tom W	TRUCK#	DRIVER
					103		+	
CITY		ISTATE	ZIP CODE	-	aus.	long C		
	Suctor		1240"		- 341	CASING SIZE & W	<u>I. </u>	â 23≇-
CASING DEPTH			12.17		<u></u>	-	OTHER	-
	<u></u>				k			
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			11 F31		a Maria		1: audes	1- mul
	A CONTRACT	20 00	<u>+)+C</u>			OBOS +	<u></u>	Childen
	nent d	<u>v</u>						
			· · · · ·			T Hane	5 Tom 4	(F/PG
· · · · · · · · · · · · ·			· · · ·		•	<u>.</u>	- "	1
ACCOUNT CODE	QUANTITY	or UNITS	1	ESCRIPTION o	f SERVICES or PR	ODUCT	UNIT PRICE	TOTAL
PLOOR	<u>/</u>	. <u></u>	PUMP CHARG	≆ <i>5</i> ,	astill_		\$95000	\$95000
MOOI	<u> </u>	niks	MILEAGE			<u></u>	\$4,50	#325 CO
MOD R	9	17 Cans			- Deliver		\$40000	4.60000
C.1300.7	- &C	703×	80/20	<u> 39810</u>	<u>290 gi</u>		\$20 9 5	418000
	<u>-</u> -			<u> </u>		<u></u> .		
_					<u> </u>			\$ 405500
							SL6 Hotel	1000
						<u>less S</u>	Portec.	\$302 75
							56 trotal	\$5752 25
<u> </u>						<u> </u>		<u> </u>
				•			<u> </u>	
			<u> </u>					<u> </u>
								+
	1							+
-						÷		<u> </u>
			+	<u> </u>			SALES TAX	297.83
	·	· /	<u> .</u> .				ESTIMATED	
		1					TOTAL	6050.08
UTHORIZATION	V /	7		TITLE			DATE	•

1

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

416 Main Street P.O. Box 225 Victoria, KS 67671

Victoria, KS 6/6/1 Office (785) 639-3949

24 Hour Service Line (785) 639-7269

Invoice

Date	Invoice #			
10/23/2023	1098			
Remit Pa 416 Main Stree Victoria, Billing Question (785) 6	m this Invoice. syment to: et PO BOX 225 KS 67671 ns-Call Tianna at 39-3949 field@yahoo.com			
	nse Number 469			

Bill To

Patterson Energy, LLC PO Box 400 Hays, KS 67601-0400

OLULUD

	County/State	Lease/Well#	_	Terms	Job Type
	Ellsworth County, KS	Rolfs #1		Net 30	Pack Shoe
Description	L	Quantit	ty	Rate	Amount
Pump Charge Mileage 15.60 tons at 50 miles 60/40 8% gel 1/4# Flo-Seal Class A 10% salt, 5 Kolseal 5-1/2" Triplex Shoe 5-1/2" Flex Latchdown Plug & Assembly 5-1/2" Basket 51/2 Stop Ring 5-1/2" Turbalizer Mud Flush KCL Discount			1 50 780 225 100 1 1 3 3 6 500 1	950.00 6.50 1.50 17.95 27.00 1,750.00 495.00 275.00 35.00 80.00 1.00 30.00 -668.44	1,170.00 4,038.757 2,700.007 1,750.007 495.007 825.007 105.007 480.007 500.007

Accounts Due Net 10th. 1-1/2% Per Month on all Past Due Accounts. 18% Annual Rate.	Subtotal	\$12,700.31
We appreciate your business and look	Sales Tax (7.5%)	\$778.32
forward to serving you again!	Balance Due	\$13,478.63

FRANKS Oilfield Service • 815 Main Street Victoria, KS 67671 • 24 Hour Phone (785) 639-7269

TICKET NUMBER_____ LOCATION_<u>12,42000128</u>

◆ Office Phone (785) 639-3949

◆ Email: franksoilfield@yahoo.com

FOREMAN Tom Williams

DATE_

1098

FIELD TICKET & TREATMENT REPORT

CEMENT

					•			
DATE	CUSTOMER #	WEL	NAME & NUME	BER	SECTION	TOWNSHIP	RANGE	COUNTY
	34588	Ralts	ŧ	41	14	17	9	Elisworth
CUSTOMER		مسو			· · · · ·			
¥a	the son_	Encoqu		4	TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRI	ESS	ر ن ر			10.3	Gray G		
_					12-301	Longer D		
CITY		STATE	ZIP CODE			Preston D		
						TOMW		
JOB TYPE PO	uk short	HOLE SIZE			3600'	CASING SIZE & W	EIGHT <u>5%</u>	15.54
CASING DEPTH	<u>3321'</u>	DRILL PIPE					OTHER _279	Abottom
SLURRY WEIGH	IT	SLURRY VOL		WATER gal/s	k	CEMENT LEFT in	CASING Plan	33 <u>2 l</u>
DISPLACEMENT	Г	DISPLACEMEN	T PSI	MIX PSI		RATE		
REMARKS: 54	Kety me	otinen	Ren I	lont r	QUELMY)	nt - Ciru	dore 1	hra
Mix 2			RI+ 20		5 Jown		In hear	lese.
Wash 11	O Y die	Dais OI	in a	10:45	landed	A . T		
Relacist	Pressin.	Ravk	Smart	alt.	*, = c			
	7		, , , , ,		-			
<u> </u>						<u> </u>		

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
PLOO!	1	PUMP CHARGE TO; Nor AKA STOC	\$95000	\$95000
mogi	50	MILEAGE	4650	\$32500
Maaz	15.60 tons	Ton Myrace Delivery	4117000	\$117000
CBOZI	225	60/40 890 14 flosis	\$17 95	\$403875
C13031	1009×	Class 10 9agalt St Kalsal		\$270000
Ftog2	t	5'2" toriplen shoe		\$175000
F5057	l k	54" Latch down Alas 0554	\$49500	449500
FFORZ	7	584" baskys	\$27500	\$825 ⁰⁰
FELOZ	3-	SVa' STON WAR: PO	\$3500	\$105 00
FE104	6	51/2" tubalizer	48000	\$45000
MOOH	-65-	to medium track Charat		
49013	SODGEL	mud Flush	\$100	500 00
CPOIN_	Laci S	KLL	33000	\$30 00
		·		
			26 rotel	4331875
		irs	5% drsc.	4.1.19 44
			26 total	\$12,7031
			ļ	
	·		SALES TAX	178.32
	nIN		ESTIMATED TOTAL	13478.63

TITLE

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



DRILL STEM TEST REPORT

Prepared For:

Patterson Energy LLC

PO Box 400 Hays, KS 67601

ATTN: Austin Klaus

Rolfs #1

14-17S-9W Ellsworth,KS

 Start Date:
 2023.10.22 @ 13:58:00

 End Date:
 2023.10.22 @ 19:50:02

 Job Ticket #:
 71080
 DST #: 1

Trilobite Testing, Inc PO Box 362 Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620

	DRILL STEM TES	TREP	ORT				
RILOBITE	Patterson Energy LLC		14-17	7S-9W	Ellsworth	h, KS	
ESTING, INC	PO Box 400 Hays, KS 67601		Rolf				_
	ATTN: Austin Klaus			icket: 710		DST#:	1
. North C	ATTN. Austin Naus		Test a	5tart. 202	23.10.22 @	, 13.56.00	
GENERAL INFORMATION:							
Formation:ArbuckleDeviated:NoWhipstock:Time Tool Opened:15:41:32Time Test Ended:19:50:02	ft (KB)		Test T Teste Unit N	r: L	eal Cason	al Straddle (Initial)
Interval:3185.00 ft (KB) To3Total Depth:3300.00 ft (KB) (*Hole Diameter:7.88 inches Hole			Refer	ence ⊟ev KB to	vations:	1795.00 1787.00 8.00	ft (CF)
Serial #: 8372 Inside Press@RunDepth: 845.02 psig	@ 3191.00 ft (KB)		Capacity:				psig
Start Date: 2023.10.22 Start Time: 13:58:01	•	2023.10.22 19:50:02	Last Calib.: Time On Bt			2023.10.22 @ 15:40:32	
			Time Off B			@ 17:07:32	
FSI: No Blow B	Time		PRE	ESSURI	E SUMM	ARY	
S372 Pressure	8372 Tempendure	Time	Pressure	Temp	Annotatio		
	110	(Min.) 0		(deg F) 106.40	Initial Hydro	o-static	
	105	1	66.96 308.53		Open To F	low (1)	
	- 100 	16 46	1128.02		Shut-In(1) End Shut-I	n(1)	
	- 95 B	47	530.17		Open To F	low (2)	
		56 87	845.02 1125.79		Shut-In(2) End Shut-I	n(2)	
		87	1541.75		Final Hydro		
22 Sun Oct 2023 Time (Haur	1				Potos		
Length (ft) Description	Volume (bbl)			Gas Choke (in	ches) Pressu	ıre (psig) G	as Rate (Mcf/d)
1197.00 Water	16.52			- (,		· ····/
315.00 WCM 50%M 50%W	4.42						
Trilobite Testing, Inc	Ref. No: 71080	1		Drinte du C	000 40 00	@ 11:04:2	

	DRILL STEM TES	T REPO	DRT			
RILOBITE TESTING, INC	Patterson Energy LLC		14-17S-9V	V Ellswort	th,KS	
ESTING , INC	PO Box 400 Hays, KS 67601		Rolfs #1 Job Ticket:	71090	DST#:≁	
	ATTN: Austin Klaus		2023.10.22 @	_	I	
GENERAL INFORMATION:						
Formation:ArbuckleDeviated:NoWhipstock:Time Tool Opened:15:41:32Time Test Ended:19:50:02	ft (KB)		Test Type: Tester: Unit No:	Convention Leal Cason 72		nitial)
Interval:3185.00 ft (KB) To32Total Depth:3300.00 ft (KB) (TVHole Diameter:7.88 inches Hole			Reference I	∃evations: 3 to GR/CF:	1795.00 1787.00 8.00	ft (CF)
Serial #: 6755OutsidePress@RunDepth:psigStart Date:2023.10.22Start Time:13:58:01	@ 3191.00 ft (KB) End Date: End Time:	2023.10.22 19:50:17	Capacity: Last Calib.: Time On Btm: Time Off Btm:		2023.10.22	psig
FSI: No Blow Ba Pressure vs. T	k BOB in 30 second, Built to 263.53 ck fime	"	PRESSU	JRE SUMN	IARY	
COD Pressure TOD Pressure TO	CSS Temperature 0555 Temperat	Time (Min.)	Pressure Temp (psig) (deg F		ion	
Recovery	<u>,</u>		G	as Rates		
Length (ft) Description 1197.00 Water 315.00 WCM 50%M 50%W	Volume (bbl) 16.52 4.42		Chok	e (inches) Press	sure (psig) Ga	as Rate (Mcf/d)
	Ref. No: 71080			d: 2023.10.2		

	DRILL STEM TES	ORT				
RILOBITE	Patterson Energy LLC		14-17S-9V	N Ellswort	th,KS	
ESTING, INC	PO Box 400 Hays, KS 67601		Rolfs #1	-		
	ATTN: Austin Klaus		Job Ticket: Test Start:	71080 2023.10.22 (DST#:	1
GENERAL INFORMATION:						
Formation: Arbuckle Deviated: No Whipstock: Time Tool Opened: 15:41:32 Time Test Ended: 19:50:02	ft (KB)		Test Type: Tester: Unit No:	Convention Leal Cason 72	al Straddle ((Initial)
Interval:3185.00 ft (KB) To32Total Depth:3300.00 ft (KB) (THole Diameter:7.88 inches Hole			Reference I	⊟evations: B to GR/CF:) ft (KB)) ft (CF)) ft
Serial #: 8365Below (StradPress@RunDepth:psigStart Date:2023.10.22Start Time:13:58:01		2023.10.22 19:48:02	Capacity: Last Calib.: Time On Btm: Time Off Btm:		2023.10.22	psig 2
TEST COMMENT: IF: Strong Blow, ISI: No Blow Bac FF: Strong Blow FSI: No Blow Bac Pressure vs. *	ck , BOB in 30 second, Built to 263.53 ick	"	PRESSI	JRE SUMN		
836 Pressure	8306 Temperature	Time	PRESSU Pressure Temp			
25 Junod 223 Tree (Huas)	- 105 - 100 - 100	(Min.)	(psig) (deg F	-)		
Recovery			G	as Rates		
Length (ft) Description	Volume (bbl)		Chok	e (inches) Press	sure (psig)	Gas Rate (Mcf/d)
1197.00 Water 315.00 WCM 50%M 50%W	16.52 4.42					
Trilobite Testing, Inc	Ref. No: 71080			d: 2023.10.2		

RILOBITE			DRII	LL ST	TOOL DIAGRAM					
			Patterso	on Energy I	LLC		14-17S-9W Ellswo	14-17S-9W Ellsworth,KS		
		TING , INC					Rolfs #1			
			Hays, K	(S 67601			Job Ticket: 71080	DST#:1		
			ATTN:	Austin Kla	ius		Test Start: 2023.10.22	@ 13:58:00		
Tool Informatio	on		ļ							
Drill Pipe:	Length:	3158.00 ft	Diameter:	3.80	inches Volum	e: 44.30 bb	I Tool Weight:	2100.00 lb		
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00	inches Volum	e: 0.00 bb	l Weight set on Packe	er: 25000.00 lb		
Drill Collar:	Length:	30.00 ft	Diameter:	2.25	inches Volum	e: 0.15 bb	_ 0	e: 100000.0 lb		
Drill Pipe Above k	≺B [.]	27.00 ft			Total Volum	e: 44.45 bb		ft		
Depth to Top Pac		3185.00 ft					String Weight: Initial			
Depth to Bottom I		3225.00 ft					Final	70000.00 lb		
Interval betw een		40.00 ft								
Tool Length:		139.00 ft								
Number of Packe	ers:	3	Diameter:	6.75	inches					
Tool Comments:										
	Successfi	ul Straddle			o. Position	Depth (ft)	Accum. Lengths			
Tool Comments: :	Successfi	ul Straddle				Depth (ft) 3166.00	Accum. Lengths			
Tool Comments:	Successfi	ul Straddle	ngth (ft)				Accum. Lengths			
Tool Comments: : Tool Description Shut In Tool	Successfi	ul Straddle	ngth (ft) 5.00			3166.00	Accum. Lengths			
Tool Comments: Tool Descriptio Shut In Tool Hydraulic tool	Successfi	ul Straddle	ngth (ft) 5.00 5.00			3166.00 3171.00	Accum. Lengths			
Tool Comments: Tool Descriptio Shut In Tool Hydraulic tool EM Tool Safety Joint	Successfi	ul Straddle	ngth (ft) 5.00 5.00 3.00			3166.00 3171.00 3174.00	Accum. Lengths	Bottom Of Top Packer		
Tool Comments: Tool Descriptio Shut In Tool Hydraulic tool EM Tool Safety Joint Packer	Successfi	ul Straddle	ngth (ft) 5.00 5.00 3.00 2.00			3166.00 3171.00 3174.00 3176.00		Bottom Of Top Packer		
Tool Comments: Tool Description Shut In Tool Hydraulic tool EM Tool Safety Joint Packer Packer	Successfi	ul Straddle	ngth (ft) 5.00 5.00 3.00 2.00 5.00			3166.00 3171.00 3174.00 3176.00 3181.00		Bottom Of Top Packer		
Tool Comments: Tool Description Shut In Tool Hydraulic tool EM Tool	Successfi	ul Straddle	ngth (ft) 5.00 5.00 3.00 2.00 5.00 4.00			3166.00 3171.00 3174.00 3176.00 3181.00 3185.00		Bottom Of Top Packer		
Tool Comments: Tool Description Shut In Tool Hydraulic tool EM Tool Safety Joint Packer Packer Stubb Handling Sub	Successfi	ul Straddle	ngth (ft) 5.00 5.00 3.00 2.00 5.00 4.00 1.00		o. Position	3166.00 3171.00 3174.00 3176.00 3181.00 3185.00 3186.00 3191.00		Bottom Of Top Packer		
Tool Comments: Tool Description Shut In Tool Hydraulic tool EM Tool Safety Joint Packer Packer Stubb Handling Sub Recorder	Successfi	ul Straddle	ngth (ft) 5.00 5.00 2.00 5.00 4.00 1.00 5.00	Serial No	Desition 2 Inside	3166.00 3171.00 3174.00 3176.00 3181.00 3185.00 3186.00 3191.00 3191.00		Bottom Of Top Packer		
Tool Comments: Tool Descriptic Shut In Tool Hydraulic tool EM Tool Safety Joint Packer Packer Stubb Handling Sub Recorder Recorder	Successfi	ul Straddle	ngth (ft) 5.00 5.00 2.00 5.00 4.00 1.00 5.00 0.00	Serial No 8372	Desition 2 Inside	3166.00 3171.00 3174.00 3176.00 3181.00 3185.00 3186.00 3191.00 3191.00		Bottom Of Top Packer		
Tool Comments: Tool Description Shut In Tool Hydraulic tool EM Tool Safety Joint Packer Packer Stubb Handling Sub Recorder Recorder perforations	Successfi	ul Straddle	ngth (ft) 5.00 5.00 2.00 5.00 4.00 1.00 5.00 0.00 0.00	Serial No 8372	Desition 2 Inside	3166.00 3171.00 3174.00 3176.00 3181.00 3185.00 3186.00 3191.00 3191.00		Bottom Of Top Packer		
Tool Comments: Tool Description Shut In Tool Hydraulic tool EM Tool Safety Joint Packer Packer Stubb Handling Sub Recorder Recorder Recorder perforations Blank Off Sub	Successfi	ul Straddle	ngth (ft) 5.00 5.00 2.00 5.00 4.00 1.00 5.00 0.00 0.00 30.00	Serial No 8372	Desition 2 Inside	3166.00 3171.00 3174.00 3176.00 3181.00 3185.00 3186.00 3191.00 3191.00 3191.00 3221.00		Bottom Of Top Packer		
Tool Comments: Tool Descriptic Shut In Tool Hydraulic tool EM Tool Safety Joint Packer Packer Packer Stubb Handling Sub Recorder Recorder perforations Blank Off Sub Blank Spacing	Successfi	ul Straddle	ngth (ft) 5.00 5.00 2.00 5.00 4.00 1.00 5.00 0.00 0.00 30.00 1.00	Serial No 8372	Desition 2 Inside	3166.00 3171.00 3174.00 3176.00 3181.00 3185.00 3186.00 3191.00 3191.00 3191.00 3221.00 3222.00	24.00			
Tool Comments: Tool Description Shut In Tool Hydraulic tool EM Tool Safety Joint Packer Packer Packer Stubb Handling Sub Recorder Recorder Recorder perforations Blank Off Sub Blank Spacing Packer	Successfu	ul Straddle	ngth (ft) 5.00 5.00 2.00 5.00 4.00 1.00 5.00 0.00 0.00 30.00 1.00 3.00	Serial No 8372	Desition 2 Inside	3166.00 3171.00 3174.00 3176.00 3181.00 3185.00 3186.00 3191.00 3191.00 3191.00 3221.00 3222.00 3225.00	24.00			
Tool Comments: Tool Descriptic Shut In Tool Hydraulic tool EM Tool Safety Joint Packer Packer Stubb	Successfu	ul Straddle	ngth (ft) 5.00 5.00 2.00 5.00 4.00 1.00 5.00 0.00 0.00 3.00 3.00 3.00	Serial No 8372	Desition 2 Inside	3166.00 3171.00 3174.00 3176.00 3181.00 3185.00 3186.00 3191.00 3191.00 3191.00 3221.00 3222.00 3225.00 3228.00	24.00			

3296.00

3297.00

3300.00

Total Tool Length:

Drill Pipe

Bullnose

Change Over Sub

63.00

1.00

3.00

139.00

Bottom Packers & Anchor

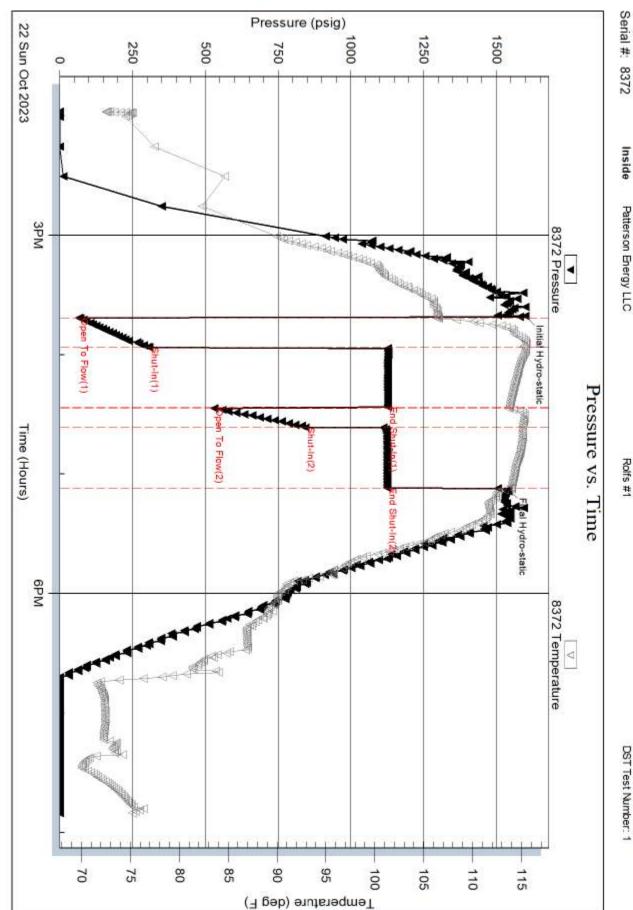
75.00

	UTE	DRI	DRILL STEM TEST REPORT FLUID SUMMARY							
	ITE ING , INC.	Patterson Energy LLC				14-17S-9W	S			
I EST	ING , INC	, INC PO Box Hays,		1		Rolfs #1 Job Ticket: 7	' 1080	DST#: 1		
N3	ATTN:	Austin I	Klaus			2023.10.22 @ 13	-			
Mud and Cushion Info	ormation									
,	sec/qt in³ ohm.m		(Cushion Type: Cushion Length: Cushion Volume: Gas Cushion Type: Gas Cushion Pressu	re:	ft bbl psig	Oil API: Water Salinity:	deg API 11289 ppm		
Salinity: 3500.00 p Filter Cake: 0.02 i	ppm inches									
Recovery Information	า									
	I			Recovery Table			Г			
	Lengt ft	h		Description		Volume bbl				
		197.00	Water	00/14 500/14/		16.517				
_	ŀ	315.00		0%M 50%W		4.419	<u>9</u>]			
	tal Length: ım Fluid Samp	1512	.00 ft	Total Volume: Num Gas Bombs:	20.936 bbl 0	Serial #				

Printed: 2023.10.23 @ 11:04:26

Ref. No: 71080

Trilobite Testing, Inc

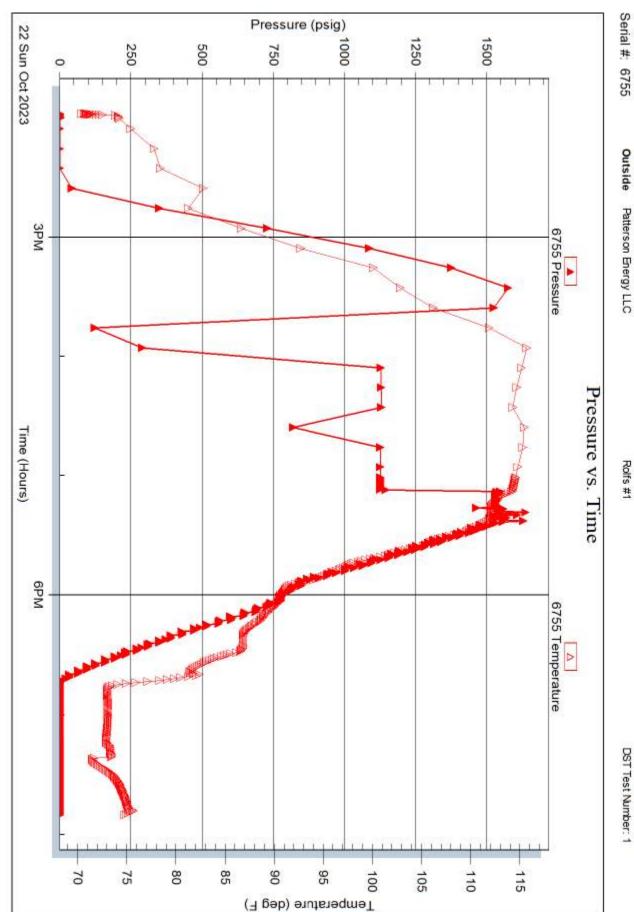


DST Test Number: 1

Printed: 2023.10.23 @ 11:04:26

Ref. No: 71080

Trilobite Testing, Inc

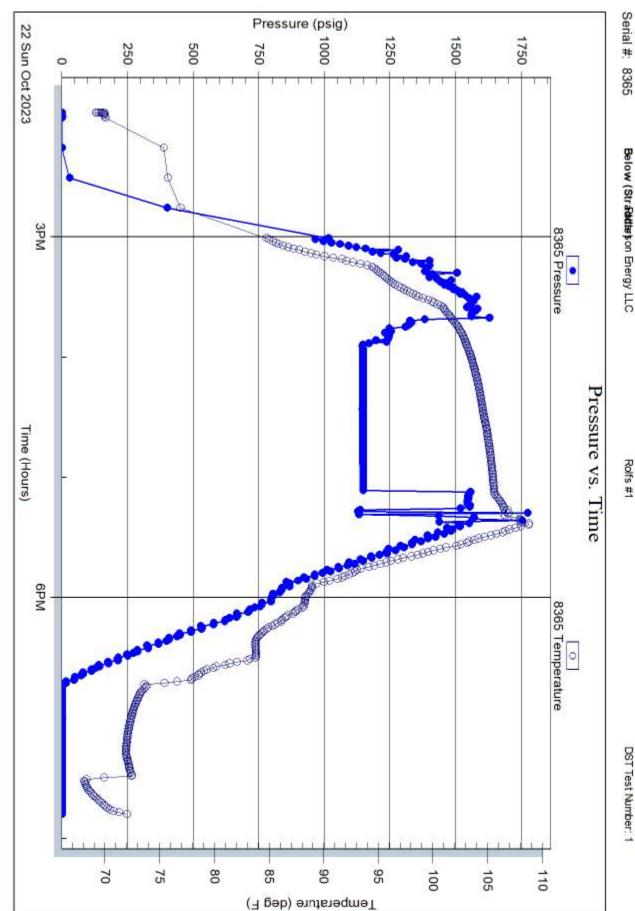


DST Test Number: 1

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Ref. No: 71080

Trilobite Testing, Inc



DST Test Number: 1