KOLAR Document ID: 1461976

Confiden	tiality Requeste	d:
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: 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.gxxx.xxxx) (e.gxxx.xxxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
	Producing Formation:
	Elevation: Ground: Kelly Bushing:
🗌 OG 🔤 GSW	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 #:	Leastion of fluid dianopol if hould offsite:
SWD Permit #: EOR Permit #:	Location of fluid disposal if hauled offsite:
GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	Quarter Sec TwpS. R East West
Recompletion Date Recompletin Date Recompletion Date Recompletion Date Recompletion	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: 1461976

Operator Name:	Lease Name:	Well #:
Sec TwpS. R East 🗌 West	County:	

Page Two

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken (Attach Additional Sh	eets)	Y	es 🗌 No			og Formatio	n (Top), Depth	and Datum	Sample
Samples Sent to Geolog	*		és 🗌 No	Ν	lame	e		Тор	Datum
Cores Taken Electric Log Run Geologist Report / Mud List All E. Logs Run:			ies No ies No ies No						
		Repo	CASING I] Ne	w Used rmediate, productio	on, etc.		
Purpose of String	Size Hole Drilled		ze Casing tt (In O.D.)	Weight Lbs. / Ft.		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
			ADDITIONAL	CEMENTING /	SQU	EEZE RECORD			
Purpose: Perforate	Depth Top Bottom	Туре	Type of Cement		# Sacks Used		Type and	Percent Additives	Additives
Protect Casing Plug Back TD Plug Off Zone									
 Did you perform a hydra Does the volume of the is Was the hydraulic fractu Date of first Production/Inj 	total base fluid of the h ring treatment informa	nydraulic fra tion submit	acturing treatment	al disclosure regis	-	Yes ns? Yes Yes	No (If No, s	kip questions 2 ar kip question 3) ill out Page Three	
Injection:			Flowing	Pumping		Gas Lift 🗌 O	ther <i>(Explain)</i>		
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Wate	er Bb	ls.	Gas-Oil Ratio	Gravity
DISPOSITION	I OF GAS:		M	ETHOD OF COM	IPLE	TION:			ON INTERVAL:
Vented Sold Used on Lease Open Hole (If vented, Submit ACO-18.)		Open Hole		-		mingled	Тор	Bottom	
Shots Per Perforation Perforation Bridge Plug Foot Top Bottom Type		Bridge Plug Set At		Acid,		ementing Squeeze			
TUBING RECORD:	Size:	Set At:		Packer At:					

Form	ACO1 - Well Completion
Operator	Lotus Operating Company, L.L.C.
Well Name	PERKINS 1
Doc ID	1461976

All Electric Logs Run

Dual Induction	
leurton/Density	
Aicro	
rac	
Sonic	

Form	ACO1 - Well Completion
Operator	Lotus Operating Company, L.L.C.
Well Name	PERKINS 1
Doc ID	1461976

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	24	309	60/40 pozmix	190	2%gel, 3% cc

	BASIC"	RECEIVED
A CONTRACTOR OF THE OWNER		

	SERVICES RI	ECEIVED	PAGE 1 of 1	CUST N 100242		YARD # 1718	INVOICE DATE 05/24/2019
		AY 3 1 2019				number 7279	
Pratt B LOTUS OPERA 1 100 S MAIN L WICHITA KS US 6 T O ATTN:		672-1201 J O B S I T E PAYABLE	LEASE N LOCATIC COUNTY STATE JOB DES JOB CON	ON SCRIPTION	Perk Prat KS Ceme	t	ell Casing/Pi
JOB # 41176222	EQUIPMENT #	PURCHASE	ORDER N	10.		'ERMS 30 days	DUE DATE 06/23/2019
For Service Date	s: 05/23/2019 t	o 05/23/2019	QTY	U of M	UNI	I PRICE	INVOICE AMOUNT

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171817940A Cement-New Well Casing/Pi 05/23/2019 PLUG TO ABANDON

60/40 Foz Cement Gel Light Vehicle Mileage Heavy Equipment Mileage Depth Charge, 4001'-5000' Blending & Mixing Service Charge Service Supervisor Charge Driver Charge

Driver Charge		2.00	EA	35.00	70.00
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PLEASE REMIT TO:	SEND OTHER CORRES	PONDENCE TO			
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERV	ICES, LP	SUB	TOTAL	3,701.04
PO BOX 841903 DALLAS,TX 75284-1903	801 CHERRY ST, ST FORT WORTH, TX 76			TAX	192.18
			INVOICE	TOTAL	3,893.22



10244 NE Hwy. 61 P.O. Box 8613 Pratt, Kansas 67124 Phone 620-672-1201

FIELD SERVICE TICKET 1718 **17940** A

DATE TICKET NO. DATE OF 5-23-PI DISTRICT CUSTOMER ORDER NO.: NEW M WDW CUSTOMER LUTUS · OPELATINY 110 Perkins 10 LEASE WELL NO. COUNTY PLATT NI STATE ADDRESS SERVICE CREW MATTAL Churlis MAIQUEZ CITY STATE Pluy N Abannut 2-42 Sec. 1 AUTHORIZED BY JOB TYPE: ZIME DATE EQUIPMENT# HRS EQUIPMENT# EQUIPMENT# HRS HRS ем Сем TRUCK CALLED 20 20420 L ARRIVED AT JOB (PM 412 START OPERATION 5.20 AM PM 19.862 .5 **FINISH OPERATION** AM PM 10515 RELEASED AM PM 11.15 MILES FROM STATION TO WELL 2

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

				(WELL OWN	ER, OPERATOR, CO	ONTR	ACTOR OR AC	JENT)
ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICE	S USED	UNIT	QUANTITY	UNIT PRICE		\$ AMOUN	IT I
BC 137	60/43 Poz		54	220			2,2,57	20
CC 200	SMIT Sel		16	780	t>		72	20
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SERVICE REPRESENTATIV	E M. W. Martal THE ABOVE N ORDERED BY	ATERIAL AND SERV	VICE	овуХ С	110-05	1	1015	
FIELD SERVICE (DRDER NO.		(WELL O	WNER OPERAT	OHCONTRACTOR	OR #	GENTY	d

CLOUD LITHO - Abilene, TX



TREATMENT REPORT

Taylor Printing, Inc. 620-672-3656

Customer (19 K.	<u> </u>	^o '(Date	5		<u> </u>	19	
	Prekin	,	e	Well #		1)	4	-) -	(
Field Order #		ⁿ ∃Ê (27	. 7		-	Casing	Depth	1 ∦ է∖ս	County	/	1017		Stat	y :
Type Job 🥳	> 42	1123	12 6	benev			Formation Legal Description			15-1	ςh			
PIPI	E DATA	PER	FORATI	NG DATA		FLUID	USED		٦	[REA	IMENT I	RESUM	E .,	
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	OPERATOR			
Company:	Lotus Operating Company, LLC			
Address:	100 S. Main St.			
	Suite 420			
	Wichita, KS 67202			
Contact Geologist:	Tim Hellman			
Contact Phone Nbr:	316-262-1077			
Well Name:	Perkins #1			
Location:	Sec. 13 - T29S - R15W			
API:	15-151-22491-0000			
Pool:		Field:	Wildcat	
State:	Kansas	Country:	USA	



Scale 1:240 Imperial

Well Name:	Perkins #1		
Surface Location:	Sec. 13 - T29S - R15W		
Bottom Location:			
API:	15-151-22491-0000		
License Number:	31980		
Spud Date:	5/16/2019	Time:	8:30 PM
Region:	Pratt County		
Drilling Completed:	5/23/2019	Time:	5:25 AM
Surface Coordinates:	330' FSL & 1320' FWL		
Bottom Hole Coordinates:			
Ground Elevation:	1998.00ft		
K.B. Elevation:	2011.00ft		
Logged Interval:	3650.00ft	To:	4840.00ft
Total Depth:	4840.00ft		
Formation:	Arbuckle		
Drilling Fluid Type:	Chemical/Fresh Water Gel		

SURFACE CO-ORDINATES

Well Type:	Vertical
Longitude:	-98.916872
Latitude:	37.515038
N/S Co-ord:	330' FSL
E/W Co-ord:	1320' FWL

	LOGGED BY		
	Keith Reavis Consulting Geologist		
Company: Address:	Keith Reavis, Inc. 3420 22nd Street Great Bend, KS 67530		
Phone Nbr: Logged By:	620-617-4091 KLG #136	Name:	Keith Reavis
<u> </u>	00117540705		
Contractor: Rig #: Rig Type:	CONTRACTOR Duke Drilling Company 9 mud rotary		

TD Date: Rig Release:		5:25 AM
	ELEVATIONS	
K.B. Elevation: K.B. to Ground:	 Ground Elevation:	1998.00ft

NOTES

Due to negative drill stem test results and electrical log analysis, it was determined by the operator that the Perkins #1 would prove non-commercial and was plugged as a dry test.

A Bloodhound gas detection system operated by Bluestem Labs was employed during the drilling of this well. ROP and gas curves were imported into this log from the Bloodhound system. Gamma ray and caliper curves were imported from the electrical log suite.

Samples were saved and will be available for review at the Kansas Geological Survey Sample Library located in Wichita, KS.

Respectfully submitted, Keith Reavis

daily drilling report

DATE	7:00 AM DEPTH	REMARKS
05/18/2019		Geologist Keith Reavis on location @2100 hrs, 3465 ft, displacing mud system and drilling ahead, bit trip @ 3650, out with PDC, in with button bit
05/19/2019	3667	drilling ahead, Topeka section, Heebner, Toronto, Douglas, Brown Lime, Lansing
05/20/2019	4279	drilling ahead, LKC, Base KG, Marmaton, Massey
05/21/2019	4545	drilling ahead, Kinderhook, Viola, shows and kicks in Kinderhook and Viola warrant test, short trip ctch, TOH w/bit, in w/tools, conduct DST #1, successful test, lay down tools, in w/bit, resume drilling, Viola
05/22/2019	4580	drill to 4580 to test rest of upper Viola, out w/bit, in w/tools, conduct DST #2, successful test, lay dow tools, TIH w/bit, resume drilling, Viola Simpson
05 <mark>/23/20</mark> 19	4840	TD @ 4840' @ 0525 hrs in Arbuckle, cfs, short trip, ctch, TOH for logs Conduct and complete open hole logging operations, geo off loc 1345 hrs

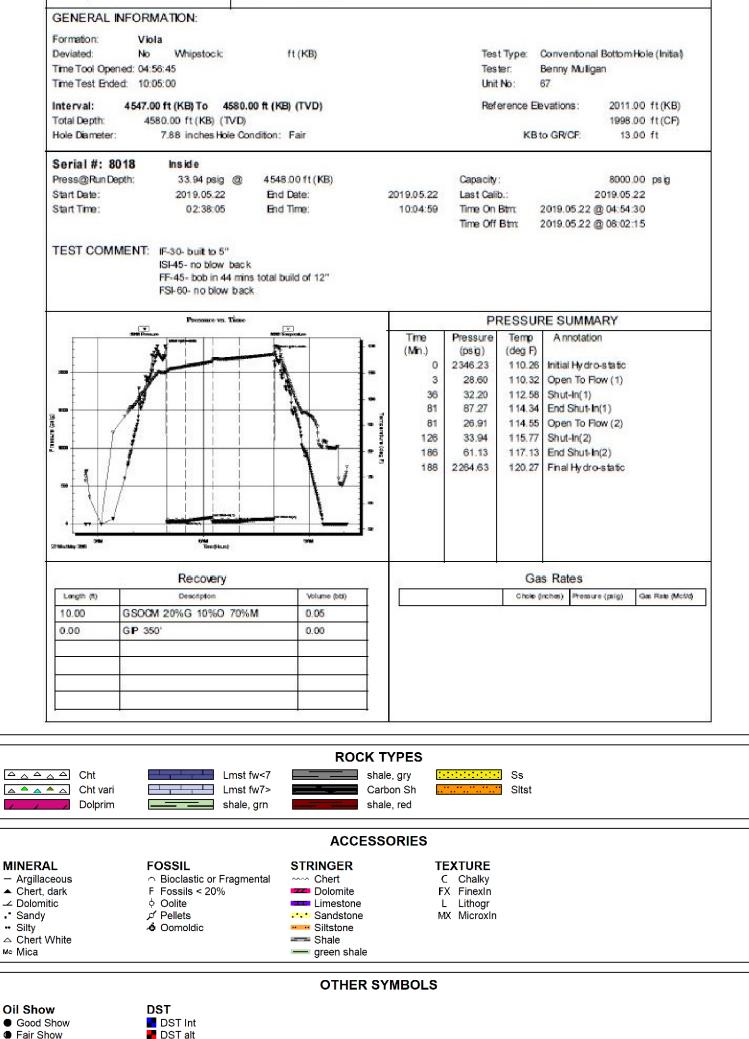
well comparison sheet

		DRILLING W	TIL			COMPARIS	ON WELL		COMPARISON WELL				
		Perkins #1				otus - Ha	tfield #	1	Lotus - Stelzer A#1				
	330' FSL 1320' FWL					1950' FS	L 2310'	FEL		1670' FN	L 680' F	680' FEL	
		Sec 13-T2			Sec 13-T	295-R15W			Sec 13-T	29S-R15W	M		
	2011 KB				203	2 KB	Struct Relation	1 A 2 A 2 A 2 A 2 A 2 A 2 A 2 A 2 A 2 A	201	2013KB Relatio			
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log	
Heebner	3870	-1859	3868	-1857	3867	-1835	-24	-22	3844	-1831	-28	-26	
Toronto	3891	-1880	3887	-1876	3887	-1855	-25	-21	3862	-1849	-31	-27	
Douglas	3910	-1899	3908	-1897	3906	-1874	-25	-23	3882	-1869	-30	-28	
Brown Lime	4034	-2023	4032	-2021	4029	-1997	-26	-24	4013	-2000	-23	-21	
Lansing	4048	-2037	4044	-2033	4042	-2010	-27	-23	4025	-2012	-25	-21	
B zone	4076	-2065	4073	-2062	4070	-2038	-27	-24	4056	-2043	-22	-19	
H zone	4218	-2207	4216	-2205	4212	-2180	-27	-25	4194	-2181	-26	-24	
Dennis	4301	-2290	4303	-2292	4292	-2260	-30	-32	4277	-2264	-26	-28	
Stark	4345	-2334	4345	-2334	4334	-2302	-32	-32	4317	-2304	-30	-30	
Swope	4352	-2341	4352	-2341	4341	-2309	-32	-32	4324	-2311	-30	-30	
Hertha	4390	-2379	4390	-2379	4380	-2348	-31	-31	4360	-2347	-32	-32	
BKC	4422	-2411	4421	-2410	4413	-2381	-30	-29	4398	-2385	-26	-25	
Marmaton	4436	-2425	4432	-2421	4426	-2394	-31	-27	4408	-2395	-30	-26	
Massey	4470	-2459	4470	-2459	4464	-2432	-27	-27	4444	-2431	-28	-28	
Kindhk Cht.	4502	-2491	4505	-2494	4502	-2470	-21	-24	NP				
Viola	4538	-2527	4540	-2529	4530	-2498	-29	-31	4496	-2483	-44	-46	
Simpson Shale	4702	-2691	4704	-2693	4669	-2637	-54	-56	4641	-2628	-63	-65	
Simpson Sand	4740	-2729	4741	-2730	4711	-2679	-50	-51	4678	-2665	-64	-65	
Arbuckle	4801	-2790	4804	-2793	4771	-2739	-51	-54	4743	-2730	-60	-63	
RTD	4840	-2829	4842	-2831	4850	-2818	-11	-13	4830	-2817	-12	-14	

Image: Second		DRILL STEM T					
Test Time Loss operand tool To 2-29-100 Prat, KS Outline Strate and tools operand too			EST REP	ORT			
Workta KS 67202*3737 Jub TE-ket: 65767 DSTF:1 ATTR: Keih Reavis Test Start: 2019.05.21 0.9.56.00 SENERAL INFORMATION: First Concentration: Kin derhook-Viola Test Start: 2019.05.21 0.9.56.00 Senerate: No Winstock: ft(KB) Test Type: Conventional BottomHole (Initia) Time Test Ended: 1.852.30 Unit No: 67 Serial #3: 815.00 ft(KB) [TVD) Test Type: Capacity: 2019.05.21 Sold Barmete: 7.88 inches Hole Condition: Fair KBto GRCFE: 13.00 ft (KB) Serial #3: 8015 Inside 2019.05.21 East Calls 2019.05.21 East Calls <td< th=""><th></th><th></th><th></th><th>13-</th><th>295-15w</th><th>Pratt,K</th><th>s</th></td<>				13-	295-15w	Pratt,K	s
Job Texet: 05787 DST#:1 ATTNE: Keitt Reavis Test Start 2019.05.21 (@ 09.56.00 SEENERAL INFORMATION: Find Tools-Viola Sormation: Moderhook-Viola Perial #: Miderhook-Viola Deviated No Minpstock: f1 (KB) Time Test Ended: 18.52.30 Interval: 4493.00 f1 (KB) To Staft Exet:: Staft Exet:: Staft Exet:: 2019.05.21 Exercise To Downee: 2019.05.21 Berlal #: 2019.05.21 Berlal #: 2019.05.21 Berlal #: 2019.05.21 Bread:: 2019.05.21 Berlal #: Staft Time: 09.58.05 End Time: 18.52.30 Time Off Berl Time: 09.52.50 Field-nobow back Field-nobow back Field-nobow back Time: Time Off Berl 228.0	ESTING , INC			Per	rkins #1		
Formation: Kin derhook-Viola Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Inita) Time Test Ended: 18.52.30 Tests:: Benny Muligan Interval: 4493.00 ft (KB) To 1998.00 ft (KB) 1998.00 ft (KB) Total Depth: 4545.00 ft (KB) (TVD) Reference Eevations: 2011.00 ft (KB) Total Depth: 4545.00 ft (KB) (TVD) Reference Eevations: 2011.00 ft (KB) Serial #: 8018 Inside Serial #: 2019.05.21 Ext Date: 2019.05.21 Serial #: 2019.05.21 Evid Date: 2019.05.21 Capacity: 2000.00 psig Serial #: 81.07 psig 62 4494.00 ft (KB) Capacity: 2000.00 psig Serial #: 2019.05.21 Evid Date: 2019.05.21 Time Off Btrz 2019.05.21 (g) 16:25.30 TEST COMMENT: FF-80-DB1 min 40 secs total build of 102" FF-80-DB2 Sees total build of 102" FF-80-DB2 Sees total build of 102" Time Off Btrz 2019.05.21 (g) 16:25.30 Test Torme Time Off Btrz 2019.05.21 (g) 16:25.30 Annotation 112:25 Sout-ht(1) Time Off Btrz 2019.05.21 (g) 16:25.30 Time Off Btrz 2019.05.21 (g) 16:25.30 Test Torme Time Off Btrz 2				10.00			denter and a second
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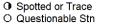
Drill Stem Test #2





Poor Show

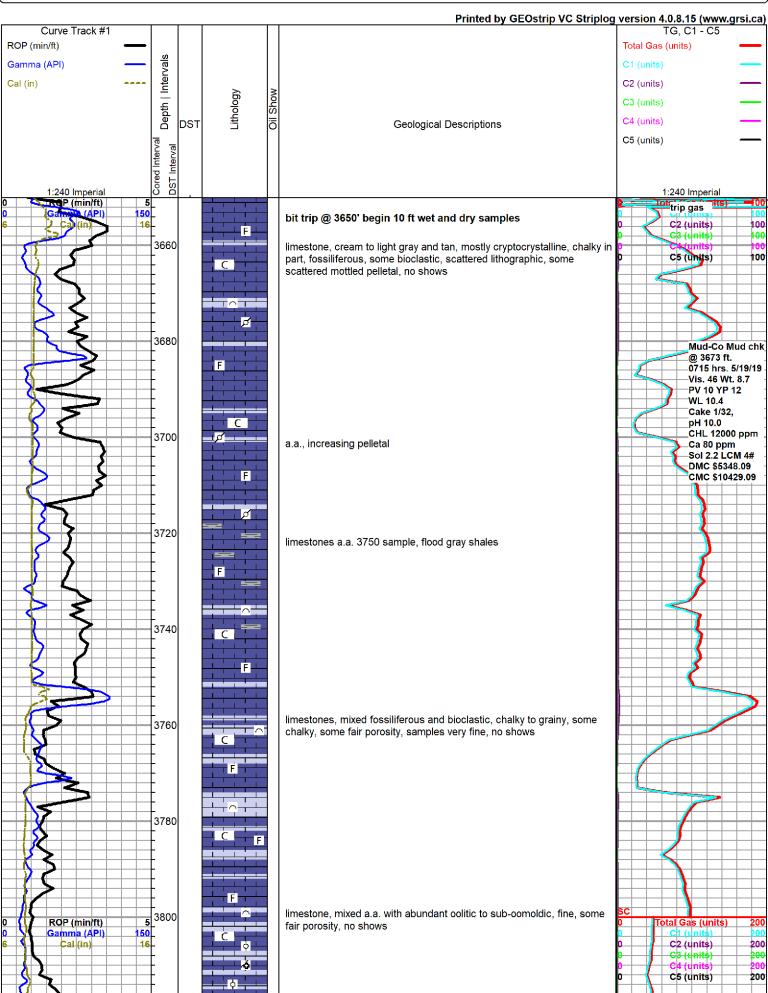
DST alt Core

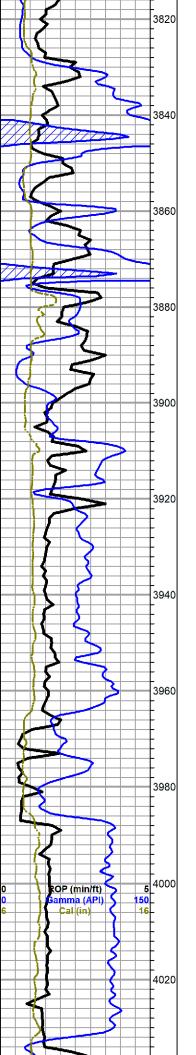


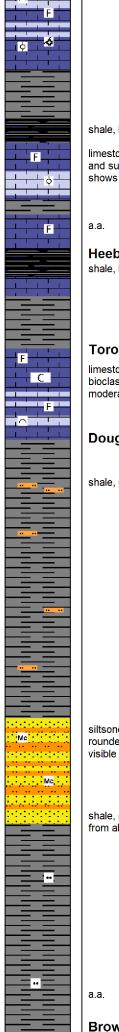
tail pipe

- D Dead Oil Stn
- Fluorescence

🗮 Gas







shale, black carbonaceous

limestone, gray to cream, microcrystalline, fossiliferous, some oolitic and sub-oomoldic a.a. (from above?), some grainy with small vugs, no shows

Heebner 3870 -1859 shale, black carbonaceous

Toronto 3891 -1880

limestone, white to tan and light gray, microcrystalline, fossiliferous to bioclastic, grainy, chalky, some scattered pinpoint porosity, no shows, moderate chalk in samples

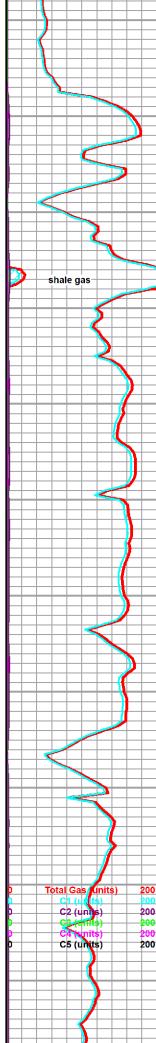
Douglas 3810 -1899

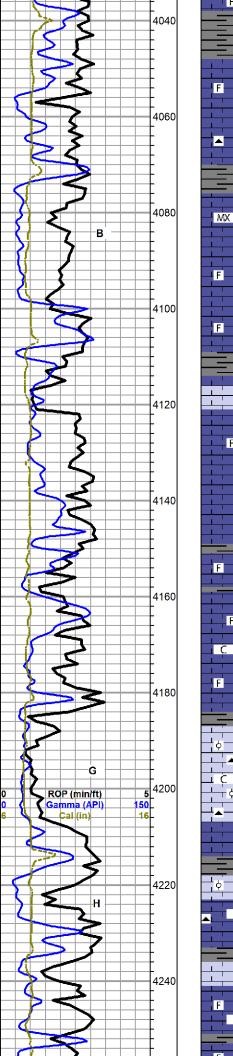
shale, gray, some silty, with siltstone, salt and pepper

siltsone, salt and pepper, with: sandstone, quartz, very fine grain, rounded, fair sorting, fair cemented to friable, micaceous, poor overall visible porosity, no shows

shale, gray, silty, heavy gray wash, still carrying abundant silt and sand from above

Brown Lime 4034 -2023





innesione, brown to gray, cryptocrystalline, dense lossillerous, no visible porosity, no shows

Lansing 4048 -2037

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limestone, light gray to cream, micro-cryptocrystalline, fossiliferous to pelletal, mottled pelletal, dense to chalky, poor visible porosity, no shows, some scattered good mineral fluoresence, some pelletal chert,

limestone, cream to white and light gray, crystalline (micro) to fossiliferous, some intercrystalline and interclast porosity, no shows, fleeting questionable odor, overall dull fluoresence

limestone, gray to brown, cryptocrystalline, fossiliferous, dense, cherty, no shows

limestone, cream to light gray, oolitic, chalky to dense, poor visible porosity, no shows

limestone, light gray to cream, fossiliferous, grainy, chalky in part, poor visible porosity, with limestone, brown and gray, cryptocrystalline, fossiliferous, dense, cherty, no shows

limestone, brown and gray, cryptocrytalline, dense, fossiliferous, cherty, with limestone, mixed, cream to white and light, fossiliferous, grainy and chalky, some sucrosic limestone, scattered brown and gray fossiliferous cherts, no shows

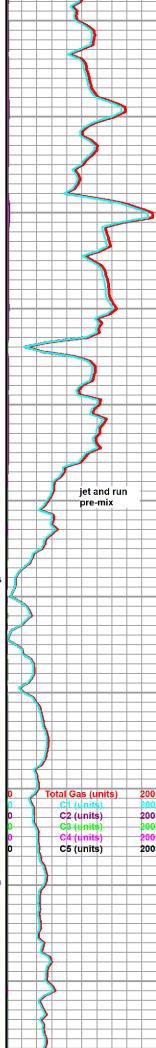
a.a. with influx chalky gray and tan mottled pelletal, marked increase in chalk, no shows

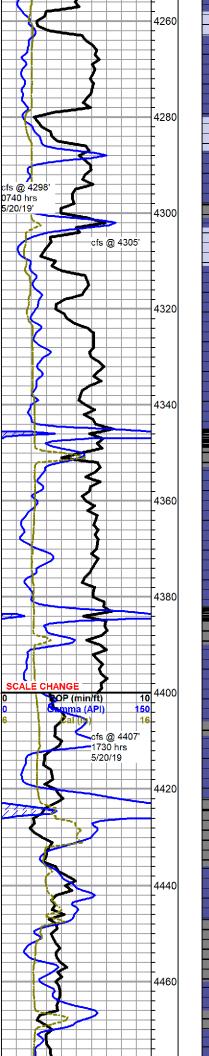
limestone, cream, very fine oolitic, chalky, few scattered vugs, mostly poor visible porosity, abundant chalk and gray fossiliferous cherts, no shows

limestone, cream, very fine oolitic, very chalky, poor visible porosity, with flood of chalk, no shows

grades to limestone, cream to light gray, mixed fossiliferous to cryptocrystalline lithographic, flood chalk, mixed gray cherts, no shows

limestone, mixed oolitic and fossiliferous with some dense lithographic, abundant chalk, no shows







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found 1 piece slight mature oolitic in 4290 sample with flakey black dead stain

limestone, cream, very fine grainy oolitic, some pinpoint porosity and secondary calcite seams, chalky in part, barren

limestone, mostly light gray to cream, cryptocrystalline, dense compact lithographic, some gray cherts

Dennis 4301 -2290

limestone, light gray to cream, oolitic, fine to very fine oolites, some scattered inter-oolite porosity, mostly barren, 2 pieces with black stain, trace heavy oil on break, no odor, poor fluoresence, light cut, with abundant chalk and gray frosted chert

abundant gray grainy oolitic to fossiliferous, fairly dense with cryptocrystalline matrix, grades to limestone, light gray, mixed fossiliferous to dense compact lithographic, some chalk, no shows

Stark 4345 -2334

shale, black, blocky carbonaceous

Swope 4352 -2341

limestone, gray to light gray, cryptocrystalline, lithographic and fossiliferous mix, scattered cherts, some chalk, no shows

increase in chalk, chert, influx some grainy fossiliferous, no show, only fluoresence is in some of the chalk

Hertha 4390 -2379

limestone, gray to light gray and brown, cryptocrystalline, lithographic and fossiliferous mix, some scattered gray cherty, dense oolitic, gray and brown cherts, moderate chalk, no shows

limestone, mixed fossiliferous and lithographic, some scattered chalky oolitic, no porosity, with abundant chert, moderate chalk no shows

Base KC 4422 -2411

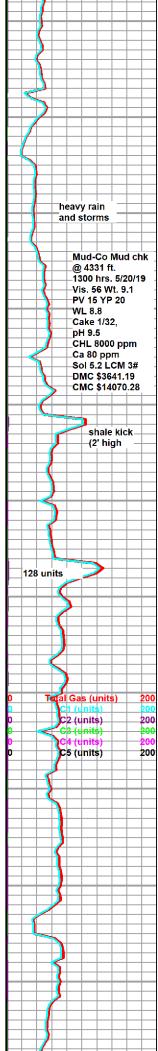
Marmaton 4436 -2425

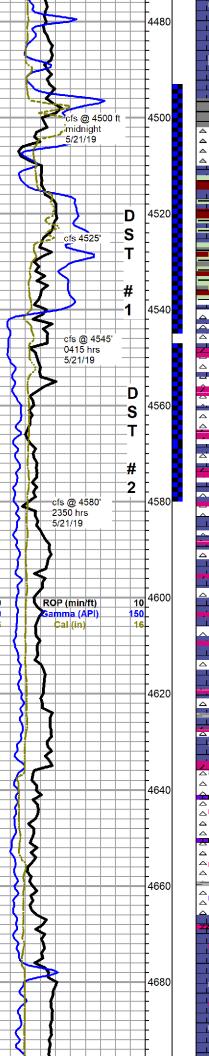
limestone, cream, white and gray, chalky lithographic and fossiliferous, some oolitic, abundant shales and sluff from above, no shows

limestones a.a.

Massey 4470 -2459

limestone, variable gray, micro-cryptocrystalline, smooth lithographic to





305-30010310 and dolornido, dense, no visible porosity, no snows, wid gray and tan chert, gray/grn shales, some fossiliferous

Kinderhook Chert 4502 -2491

chert, light frosted gray, opaque to transucent, fresh to tripolitic, trace rotten, fractured in part, spotty to total saturated black stain, some fair pinpoint tripolitic porosity and fractures, slow bleeding gas both vugs and fractures, some light oil droplets, one rotten piece slow bleed live black oil, no odor, pale green fluoresence, poor cut

shale, gray, green, maroon and lavender, with sandstone, pale green, very fine grain, well rounded and sorted, mostly shaley, well cemented to friable, spotty to saturated brown stain, slight show oil on break, no odor, pale blueish green fluoresence, no cut

Viola 4538 -2527

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chert, boney white to gray, fresh to tripolitic, some fair scattered tripolitic porosity, spotty brown to black staining, some adhering brown microcrystalline dolomite, with dolomitic limestone, cream to tan. microcrystalline, some white chalky friable crystalline limestone, trace free oil in tray, weak fleeting odor, light fluoresence, poor cut but halo on all specimens

4545-4570 a.a. decreasing show, with influx pale greenish/gray dolomite, microcrystalline, sub-rhombic, dense, scattered stain, no free oil, light fluoresence, poor cut, influx chalk in sample

4570-80, a.a., 30 min sample: decreasing chert, increasing limestone, dolomite appx same percentage a.a., 60 min sample: decreasing dolomite

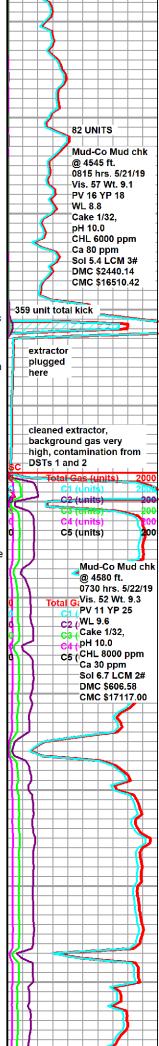
chert, boney white to gray translucent and opaque, fresh, sharp, limestone, white to cream and light gray, microcrystalline, dense to chalky, dolomite, pale green, microcrystalline, sub-rhombic, some sandy, shows have dropped out (fairly equal mix, cht. Is & dol, limestone may be slightly dominant)

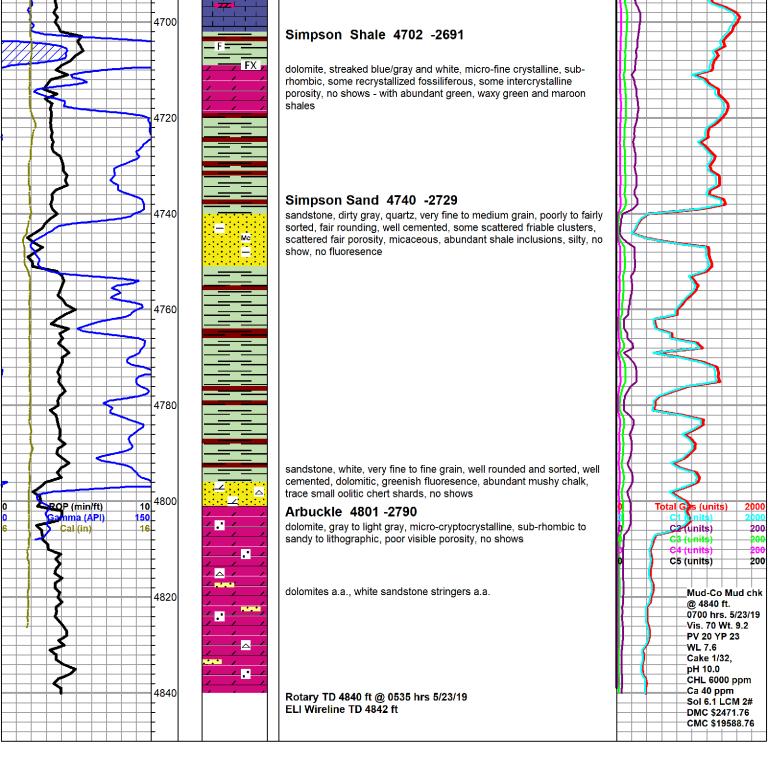
limestone, dolomite and cherts a.a., 4650 sample flood gray shale

chert, boney white to variable gray, marked decrease in limestone and dolomite, still carrying abundant shale, no shows

4690 sample grades to more limestone, white to cream and light gray, mixed crystalline, some sandy, with dolomite and chert a.a. trace black dead edge staining, no free oil, no odor

picking up some green and maroon shales, some large shale shards direct out of sample box, still mostly viola samples from above





Pratt(620) 672-1201JLEASE NAMEPerkins #1BLOTUS OPERATING CO. LLCDLOCATIOND100 SMAIN ST STE 420COUNTYPrattLWICHITASSTATEKSKSUS67202JOB DESCRIPTIONCement-New Well Casing/PiTACCOUNTS PAYABLEJOB CONTACTJOB CONTACT	BASIC ENERGY SERVICES	PAGE 1 of 1	•	YARD # 1718 CE NUMBER 973757	INVOICE DATE 05/20/2019
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10244 NE Hwy. 61 P.O. Box 8613 Pratt, Kansas 67124 Phone 620-672-1201

ENERGY

SERVICES

FIELD SERVICE TICKET 1718 17916 A

	A DATE TICKET NO.
DATE OF JOB JOHN DISTRICT	
CUSTOMER / A. C.M. A. C.	LEASE WELL NOT
ADDRESS	COUNTY STATE
CITY STATE	SERVICE CREW AND F Side Alter
AUTHORIZED BY	JOB TYPE: Coment Shiface 242
EQUIPMENT# HRS EQUIPMENT# HRS E	QUIPMENT# HRS TRUCK CALLED STO PATE AM TIME
	ARRIVED AT JOB
a server and the server	START OPERATION AM
	FINISH OPERATION
	RELEASED
	MILES FROM STATION TO WELL

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered). The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED:

ITEM/PRICE REF. NO.			· · · · · · · · · · · · · · · · · · ·	ER, OPERATOR, CON	· · · · · · · · · · · · · · · · · · ·	
REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOL	JNT
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	Contention ORDERED BY CUSTOMER A	ND RECEIVED	BY: Detail	THE COMMENT	and the first of the second	

CLOUD LITHO - Abilene, TX



10244 NE Hwy. 61 P.O. Box 8613 Pratt, Kansas 67124 Phone 620-672-1201

FIELD SERVICE TICKET 1718 **1.2.0** A

		HING & WIHELINE	Ker hi	1			DATE TICKET NO.
DATE OF JOB		DISTRICT					
CUSTOMÉR					LEASE		WELL NO
ADDRESS	ADDRESS						STATE
CITY	STATE		SERVICE OF	REW			
AUTHORIZED BY					JOB TYPE:		
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CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered). The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

			(WELL OWN	ER, OPERATOR,	CON	FRACTO	R ÓR A	GEŅ
TEM/PRICE REF_NO	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRIC). Э.Е. [″]	\$	AMOUN	JT
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REPRESENTATIVE FIELD SERVICE ORDER NO.

SERVICE

CLOUD LITHO - Abile

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY:

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

SIGNED:



-

TREATMENT REPORT

Customer		Page 1		Lease No.				Date							
Lease	ana ini di si d Na si di s			Well #	Ĵ					1 Start I - Charles					
Field Order #	Station	1.1.1	1.	-l		Casing		Depth		Count	У	11	· · ·	St	ate
Type Job	i er		ţ	•			Forr	nation				Legal [Description		-
PIPE	DATA	PERF	ORATI	NG DATA		FLUID U	SED				TREA	TMENT	RESUM	E	i di
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Depth	Depth	From		Го	Pre	Pad	ad		Мах				5 Min.		
Volume	Volume	From		Го	Pad				Min				10 Min.		
Max Press	Max Press	From		То	Frad	>			Avg				15 Min.		
Well Connection	Annulus Vo			Го					HHP Use	d			Annulus	Press	sure
Plug Depth	Packer Dep			Го	Flus	sh			Gas Volur	ne			Total Lo	ad	
Customer Repre	sentative			Statio	on Mana	ager /	- 7		, i e	Tre	ater	he /	Call	1. A.	
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Taylor Printing, Inc. 620-672-3656



DRILL STEM TEST REPORT

Prepared For: Lotus Operating Co

100 S. main st. ste 420 Wichita KS 67202+3737

ATTN: Keith Reavis

Perkins #1

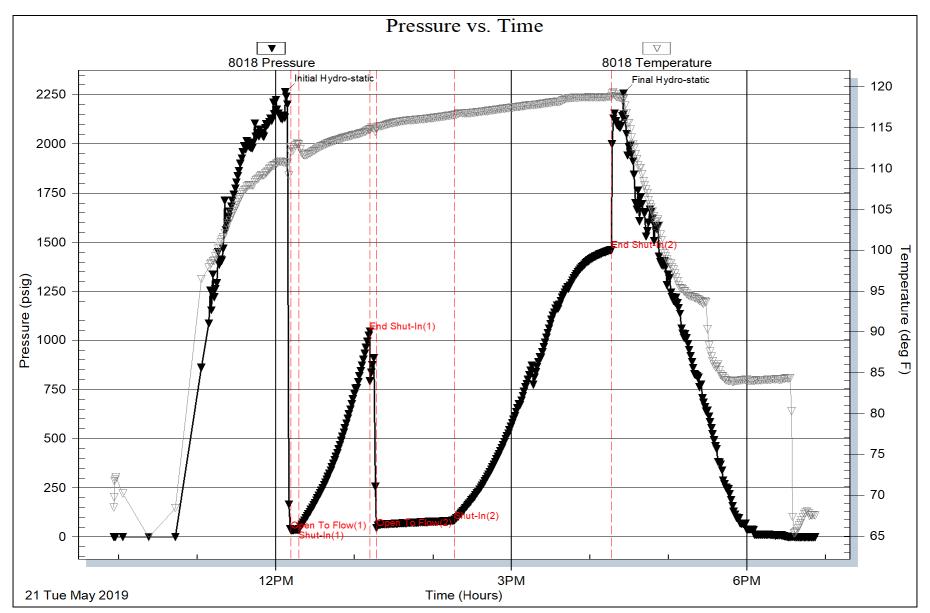
13-29s-15w

2019.05.21 @ 09:56:00 Start Date: End Date: 2019.05.21 @ 18:52:30 Job Ticket #: 65787 DST #: 1

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

(Oh)		DRILL ST	TEM TES	T REP	ORT					
家地	RILOBITE	Lotus Operating	Со		13-	29s-15w	,			
	ESTING , INC.	100 S. main st. s	te 420 Wichita	KS 67202+37	37 Pe	Perkins #1				
					Job	Job Ticket: 65787			:1	
		ATTN: Keith Re	avis		Tes	t Start: 20)19.05.21 (@ 09:56:00		
GENERAL IN	IFORMATION:									
Formation: Deviated: Time Tool Opene Time Test Endeo		ft (KB))		Tes	ter: I	Conventior Benny Mull 67	ial Bottom H igan	ole (Initial)	
Interval: Total Depth: Hole Diameter:	4493.00 ft (KB) To 45 4545.00 ft (KB) (T\ 7.88 inchesHole	′D)))		Ref	erence Ele KB t	evations: to GR/CF:		0 ft (KB) 0 ft (CF) 0 ft	
Serial #: 80 Press@RunDep Start Date: Start Time: TEST COMM	th: 81.97 psig 2019.05.21 09:56:05 ENT: IF-5-BOB 1min 40 ISI-60- no blow b	End Date: End Time:) secs total build of ack		2019.05.21 18:52:30	Capacity Last Cali Time On Time Off	b.: Btm: 2		8000.0 2019.05.2 @ 12:07:1 @ 16:25:3	1 5	
	FF-60- BOB 25 s FSI-120- no blow Pressure vs. T			Time	Pl	RESSUF Temp	RE SUM			
2230 - 	A		110	(Min.) 0 4 10	(psig) 2262.09 32.44 36.34	(deg F) 110.71 112.55 112.92	Initial Hyd Open To	ro-static Flow (1)		
1500 1220 1200			95 m		1044.57 45.92 81.97 1460.07	114.83	End Shut Open To Shut-In(2 End Shut	Flow (2))		
700 900 270 900 270 900 900 900 900 900 900 900 9	TEPHONE STREET		- 85 5 - 75 - 70 - 65	259	2255.58	118.62		. ,		
	Recovery					Ga	s Rates			
Length (ft)	Description		lume (bbl)			Choke (i	nches) Pres	sure (psig)	Gas Rate (Mcf/d)	
	G.S.O.C.M 40%G 10%O					_	_	-		
	O.S.M. 100%M G.I.P. 896'	0.0								
0.00	U.I.F. 090	0.0								
Trilohite Test		Ref No: 6					2010 05 2			

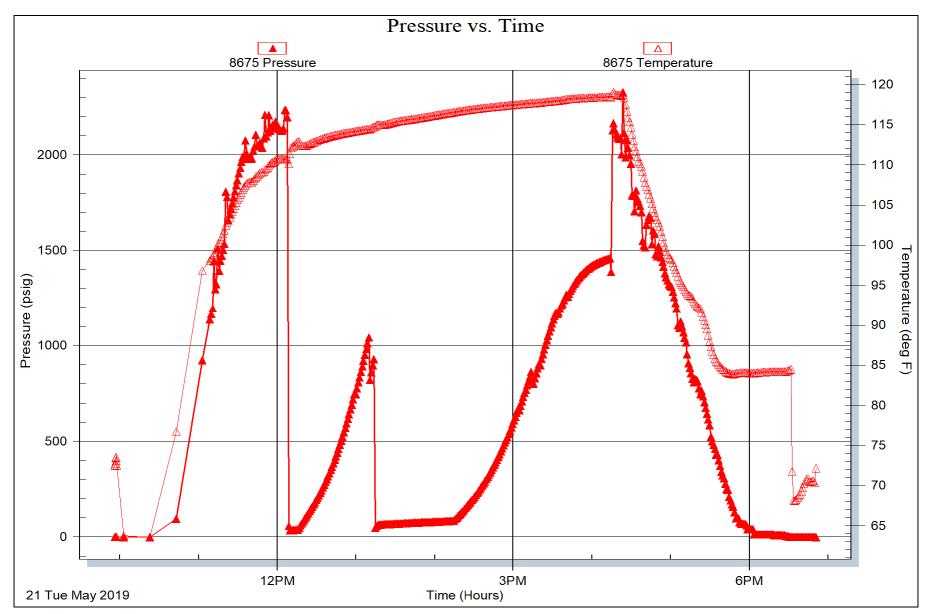
		RILL STEM TEST		FLUID SUMMAR			
RILOBIT	L Lotu	s Operating Co		13-29s-15v	N		
ESIIN	<i>IG</i> , <i>INC</i> . 100	S. main st. ste 420 Wichita KS 67	202+3737	Perkins #	1		
				Job Ticket: 6	5787	DST#: 1	
	ATT	N: Keith Reavis		Test Start: 2	2019.05.21 @ 0	09:56:00	
lud and Cushion Infor	mation						
lud Type: Gel Chem		Cushion Type:			Oil API:		deg API
/ud Weight: 9.00 lb/	-	Cushion Length:		ft	Water Salinity:	:	ppm
iscosity: 57.00 se	c/qt	Cushion Volume:		bbl			
/ater Loss: 8.78 in ³		Gas Cushion Type:					
,	m.m	Gas Cushion Pressur	e:	psig			
alinity: 6000.00 pp							
	hes						
ecovery Information		Recovery Table					
Γ	Length	Description		Volume	7		
_	ft 120.00	G.S.O.C.M 40%G 10%O 50%	%M	bbl 0.590			
-	60.00			0.313	-		
_	0.00			0.000	-		
Total	Length: 1	80.00 ft Total Volume:	0.903 bbl		-		
Num	Fluid Samples: 0	Num Gas Bombs:	0	Serial #			
	ratory Name:	Laboratory Location		Condi //			
	overy Comments:	,					
	, -						



Trilobite Testing, Inc

Ref. No: 65787

Printed: 2019.05.22 @ 10:22:50



Trilobite Testing, Inc

Ref. No: 65787

Printed: 2019.05.22 @ 10:22:50



DRILL STEM TEST REPORT

Prepared For: Lotus Operating Co

100 S. main st. ste 420 Wichita KS 67202+3737

ATTN: Keith Reavis

Perkins #1

13-29s-15w

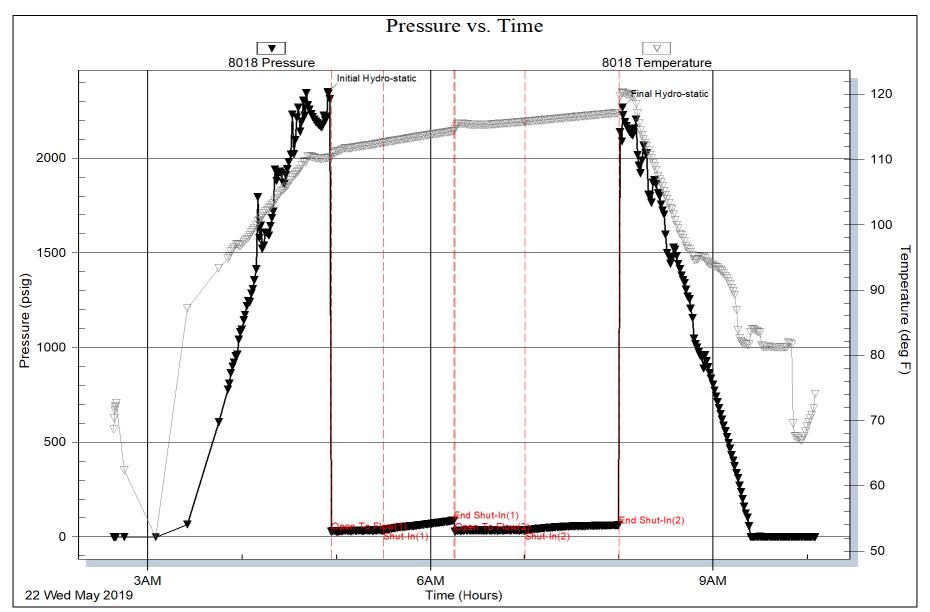
2019.05.22 @ 02:38:00 Start Date: End Date: 2019.05.22 @ 10:05:00 Job Ticket #: 65788 DST #: 2

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

	DRILL STEM TES	ST REP	ORT						
RILOBITE	Lotus Operating Co		13-	29s-15w	,				
ESTING , INC	100 S. main st. ste 420 Wichita	KS 67202+37	37 Perkins #1						
			Job	Ticket: 65	Ticket: 65788 DST#:2				
	ATTN: Keith Reavis		Tes	t Start: 20)19.05.22 (@ 02:38:00			
GENERAL INFORMATION:	•								
Formation:ViolaDeviated:NoWhipstock:Time Tool Opened:04:56:45Time Test Ended:10:05:00	ft (KB)		Tes Tes Unit	ter: I	Convention Benny Mull 67	al Bottom H igan	lole (Initial)		
Interval:4547.00 ft (KB) To4Total Depth:4580.00 ft (KB) (1Hole Diameter:7.88 inches Ho			Ref	erence Ele KB t	evations: to GR/CF:	1998.0	0 ft (KB) 0 ft (CF) 0 ft		
Serial #: 8018InsidePress@RunDepth:33.94 psigStart Date:2019.05.22Start Time:02:38:05	End Date: End Time:	2019.05.22 10:04:59	Capacity Last Calii Time On Time Off	b.: Btm: 2		8000.0 2019.05.2 2 @ 04:54:3 2 @ 08:02:1	2 0		
FSI-60- no blow	back 4 mins total build of 12" ' back								
Pressure vs. v 8018 Presure	Time 3013 Tenperature	Time	Pressure		RE SUMN				
	- 120	(Min.)	(psig)	Temp (deg F)	Annotat	1011			
2000	110	03	2346.23 28.60	110.26 110.32					
		36	32.20	112.58	-				
		81 81	87.27		End Shut				
		126	26.91 33.94		Open To Shut-In(2				
		186 188	61.13 2264.63	117.13 120.27	End Shut	-ln(2)			
0	90 59 								
Recovery				Ga	s Rates				
Length (ft) Description	Volume (bbl)			Choke (i		sure (psig)	Gas Rate (Mcf/d)		
10.00 GSOCM 20%G 10%O				-	·				
0.00 GIP 350'	0.00								
Trilobite Testing Inc	Ref. No: 65788				2019 05 2				

RILOBITE	DRI	LL STEM TEST	I	FLUID SUMMARY			
	Lotus (Operating Co		13-29s-15	N		
TESTING, INC.	100 S.	main st. ste 420 Wichita KS	67202+3737	Perkins #			
		Keith Reavis		Job Ticket: 6	35788 2019.05.22 @ 02	DST#:2	
יקן איז	ATTN.				2019.05.22 @ 02	2.30.00	
Mud and Cushion Information							
Mud Type: Gel Chem		Cushion Type:			Oil API:		deg API
Mud Weight: 9.00 lb/gal		Cushion Length:		ft	Water Salinity:		ppm
Viscosity:57.00 sec/qtWater Loss:8.79 in³		Cushion Volume: Gas Cushion Type:		bbl			
Resistivity: ohm.m		Gas Cushion Press		psig			
Salinity: 6000.00 ppm			uro.	poig			
Filter Cake: 1.00 inches							
Recovery Information							
		Recovery Table					
Leng ft	th	Description		Volume bbl			
	10.00	GSOCM 20%G 10%O 70	0%M	0.049	-		
	0.00	GIP 350'		0.000	<u>)</u>		
Total Length:	10	.00 ft Total Volume:	0.049 bbl				
Num Fluid Samp Laboratory Nan Recovery Comr	ne:	Num Gas Bomb Laboratory Loca		Serial #			

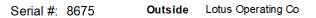


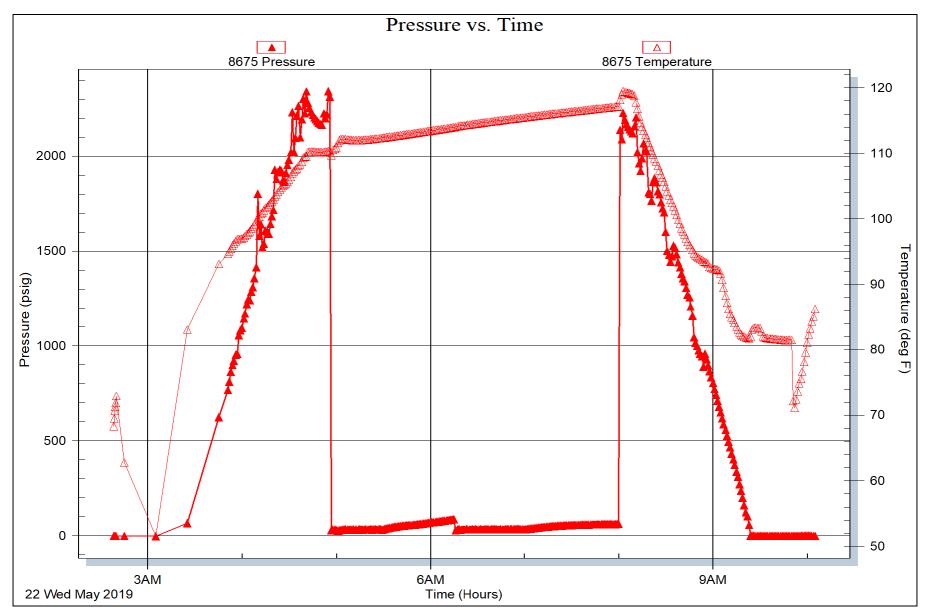


Trilobite Testing, Inc

Ref. No: 65788

Printed: 2019.05.22 @ 11:19:26





Trilobite Testing, Inc

Ref. No: 65788

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