

Confidentiality Requested:

Yes No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

**WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

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: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top _____ Bottom _____
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Lotus Operating Company, L.L.C.
Well Name	PERKINS 1
Doc ID	1461976

All Electric Logs Run

Dual Induction
Neurton/Density
Micro
Frac
Sonic



BASIC
ENERGY SERVICES

RECEIVED

MAY 31 2019

PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1002427	1718	05/24/2019
INVOICE NUMBER			
92977279			

Pratt (620) 672-1201
 B LOTUS OPERATING CO. LLC
 I 100 S MAIN ST STE 420
 L WICHITA
 L KS US 67202
 T
 O ATTN: ACCOUNTS PAYABLE

J LEASE NAME Perkins 1
 O LOCATION
 B COUNTY Pratt
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
41176222	20920		Net - 30 days	06/23/2019

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 05/23/2019 to 05/23/2019</i>				
0041176222				
171817940A Cement-New Well Casing/Pi 05/23/2019 PLUG TO ABANDON				
60/40 Poz	220.00	SK	10.26	2,257.20 T
Cement Gel	380.00	LB	0.19	72.20 T
Light Vehicle Mileage	20.00	MI	1.90	38.00
Heavy Equipment Mileage	40.00	MI	3.04	121.60
Depth Charge, 4001'-5000'	1.00	HR	950.00	950.00
Blending & Mixing Service Charge	1.00	SK	117.04	117.04
Service Supervisor Charge	1.00	EA	75.00	75.00
Driver Charge	2.00	EA	35.00	70.00

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	3,701.04
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	192.18
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	3,893.22
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

TTMH
37

FIELD SERVICE TICKET
1718 17940 A

DATE _____ TICKET NO. _____

DATE OF JOB 5-23-19 DISTRICT		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:			
CUSTOMER Lorus Operating Co LLC		LEASE Perkins		WELL NO. 1	
ADDRESS		COUNTY Pratt		STATE KS	
CITY STATE		SERVICE CREW MATTAI Maquoz Charles			
AUTHORIZED BY		JOB TYPE: 2-42 Plug to Abandon			

EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
20920	4						5-23			2:00
						ARRIVED AT JOB				4:00
						START OPERATION				5:00
19862	0.5					FINISH OPERATION				10:15
						RELEASED				11:00
						MILES FROM STATION TO WELL				20

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: _____
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
Bc 137	60/40 P02	SU	220		2,257.20
CC 200	SMIT gel	lb	380		72.00
Ma 101	Light Veh miles	mi	20		38.00
Ma 102	Heavy eq miles	mi	40		126.00
CC 5	depth charge	hr	1		950.00
CC 240	blend + mix	SU	220		117.04
Bc 143	Supervisor	ea	1		75.00
Bc 144	Driver	ea	2		70.00
SUB TOTAL					9,503.00

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		3,701.04

SERVICE REPRESENTATIVE M. W. Mattai	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: _____ (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
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FIELD SERVICE ORDER NO. _____

Customer	Lotus Operating	Lease No.		Date	5-23-19	
Lease	Packing	Well #	1			
Field Order #	17990	Station	PROT	Casing	Depth	County
Type Job	242	Formation		Legal Description	15 295-15W	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	270 SK, 60/40	RATE	PRESS	ISIP
Depth	Depth	From	To	Pre Pad	4 1/2 SK	Max		5 Min.
Volume	Volume	From	To	Pad		Min		10 Min.
Max Press	Max Press	From	To	Frac		Avg		15 Min.
Well Connection	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush		Gas Volume		Total Load

Customer Representative	Jim Holliman	Station Manager	W. [unclear]	Treater	[unclear]
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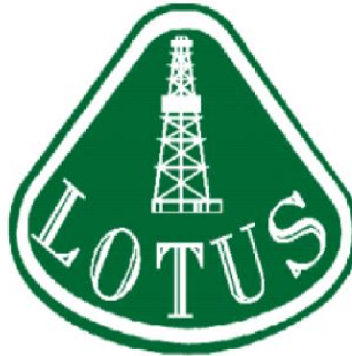
Service Units	84500								
Driver Names	[unclear]								

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
4:20					ON location / 2nd plug @ 4300'
5:49		4	20	4	pump 20 bbl water
6:54		4	13	4	mix 50 SK, 60/40 PDC
8:03		4	5	4	pump 5 bbl water
8:20			60		pump 60 bbl mix
					2nd plug @ 780'
8:36		10	15	5	pump 15 bbl water
8:53		10	13	4	mix 50 SK, 60/40 PDC
8:56		10			pump 3 bbl water
					3rd plug @ 330'
9:14		10	10	4	pump 10 bbl water
9:16		10	13	4	mix 50 SK, 60/40 PDC
9:20		10			pump 1 bbl water
					4th plug @ 60'
10:00			6	3	mix 50 SK, 60/40 PDC
					Card to [unclear]
10:10					plug R41 + change hole
					JOB complete
					THANK YOU
					MIKE [unclear]
					EDMUND + CLAYTON

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:
 State: Kansas

Field: Wildcat
 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
 Region: Pratt County
 Drilling Completed: 5/23/2019
 Surface Coordinates: 330' FSL & 1320' FWL
 Bottom Hole Coordinates:
 Ground Elevation: 1998.00ft
 K.B. Elevation: 2011.00ft
 Logged Interval: 3650.00ft
 Total Depth: 4840.00ft
 Formation: Arbuckle
 Drilling Fluid Type: Chemical/Fresh Water Gel

Time: 8:30 PM
 Time: 5:25 AM
 To: 4840.00ft

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: Keith Reavis, Inc.
 Address: 3420 22nd Street
 Great Bend, KS 67530

Phone Nbr: 620-617-4091
 Logged By: KLG #136

Name: Keith Reavis

CONTRACTOR

Contractor: Duke Drilling Company
 Rig #: 9
 Rig Type: mud rotary
 Spud Date: 5/16/2019

Time: 8:30 PM

Spud Date: 5/16/2019
 TD Date: 5/23/2019
 Rig Release:

Time: 8:30 PM
 Time: 5:25 AM
 Time:

ELEVATIONS

K.B. Elevation: 2011.00ft Ground Elevation: 1998.00ft
 K.B. to Ground: 13.00ft

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 ctoh, 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
05/23/2019	4840	TD @ 4840' @ 0525 hrs in Arbuckle, ofs, short trip, ctoh, TOH for logs Conduct and complete open hole logging operations, geo off loc 1345 hrs

well comparison sheet

Formation	DRILLING WELL				COMPARISON WELL				COMPARISON WELL			
	Perkins #1				Lotus - Hatfield #1				Lotus - Stelzer A#1			
	330' FSL 1320' FWL Sec 13-T29S-R15W				1950' FSL 2310' FEL Sec 13-T29S-R15W				1670' FNL 680' FEL Sec 13-T29S-R15W			
	2011 KB				2032 KB		Structural Relationship		2013 KB		Structural Relationship	
	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

Drill Stem Test #1

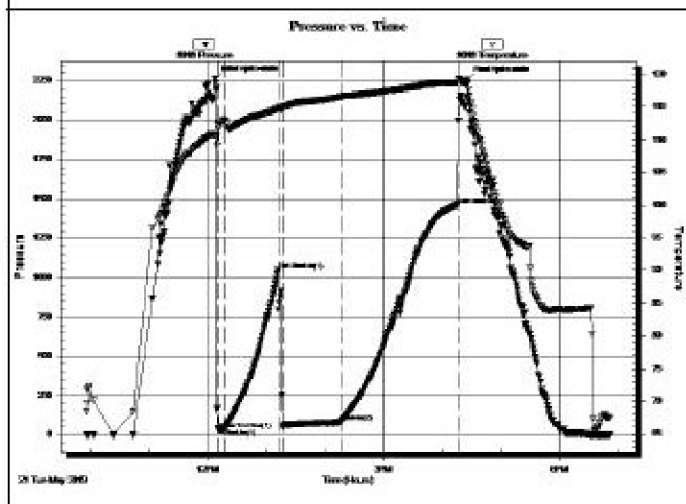
 TRILOBITE TESTING, INC	DRILL STEM TEST REPORT	
	Lotus Operating Co 100 S. Main St. Ste 420 Wichita KS 67202+3737 ATTN: Keith Reavis	13-29s-15w Pratt,KS Perkins #1 Job Ticket: 65787 DST#: 1 Test Start: 2019.05.21 @ 09:56:00

GENERAL INFORMATION:

Formation: Kinderhook-Viola	Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock ft (KB)	Tester: Benny Mulligan
Time Tool Opened: 12:11:15	Unit No: 67
Time Test Ended: 18:52:30	Reference Elevations: 2011.00 ft (KB)
Interval: 4493.00 ft (KB) To 4545.00 ft (KB) (TVD)	1998.00 ft (CF)
Total Depth: 4545.00 ft (KB) (TVD)	KB to GR/CF: 13.00 ft
Hole Diameter: 7.88 inches Hole Condition: Fair	

Serial #: 8018	Inside				
Press@Run Depth: 81.97 psig @ 4494.00 ft (KB)	Capacity: 8000.00 psig				
Start Date: 2019.05.21	End Date: 2019.05.21	Last Calib.: 2019.05.21			
Start Time: 09:56:05	End Time: 18:52:30	Time On Btm: 2019.05.21 @ 12:07:15			
		Time Off Btm: 2019.05.21 @ 16:25:30			

TEST COMMENT: IF-5-BOB 1 min 40 secs total build of 24"
 ISI-60- no blow back
 FF-60- BOB 25 secs total build of 102"
 FSI-120- no blow back




PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2262.09	110.71	Initial Hydro-static
4	32.44	112.55	Open To Flow (1)
10	36.34	112.92	Shut-In(1)
65	1044.57	114.80	End Shut-In(1)
70	45.92	114.83	Open To Flow (2)
129	81.97	116.53	Shut-In(2)
249	1460.07	118.74	End Shut-In(2)
259	2255.58	118.62	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
120.00	GOQM 40%G 10%O 50%M	0.59
60.00	Mud w / oil spots 100%M	0.31
0.00	GP 896'	0.00

Gas Rates			
	Choke (inches)	Pressure (psig)	Gas Rate (Mc/d)

Drill Stem Test #2

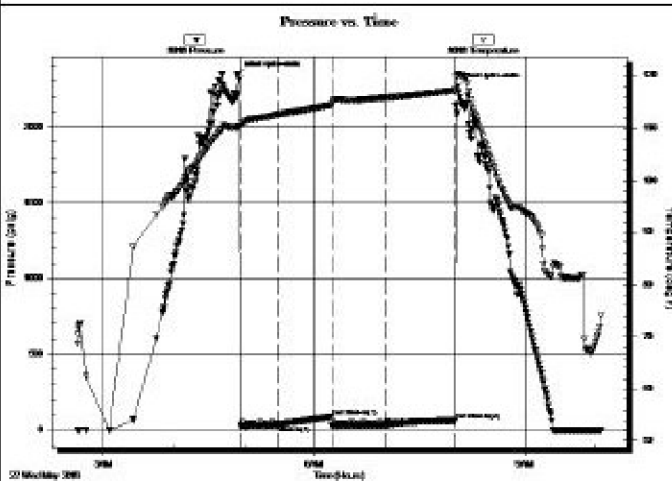
 TRILOBITE TESTING, INC	DRILL STEM TEST REPORT	
	Lotus Operating Co 100 S. main st. ste 420 Wichita KS 67202+3737 ATTN: Keith Reavis	13-29s-15w Perkins #1 Job Ticket: 65788 DST#: 2 Test Start: 2019.05.22 @ 02:38:00

GENERAL INFORMATION:

Formation: **Viola**
 Deviated: **No Whipstock** ft (KB)
 Time Tool Opened: 04:56:45
 Time Test Ended: 10:05:00
 Interval: **4547.00 ft (KB) To 4580.00 ft (KB) (TVD)**
 Total Depth: **4580.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 Test Type: **Conventional Bottom Hole (Initial)**
 Tester: **Benny Mulligan**
 Unit No: **67**
 Reference Elevations: **2011.00 ft (KB)**
1998.00 ft (CF)
 KB to GR/CF: **13.00 ft**

Serial #: 8018 **Inside**
 Press@Run Depth: **33.94 psig @ 4548.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2019.05.22** End Date: **2019.05.22** Last Calib.: **2019.05.22**
 Start Time: **02:38:05** End Time: **10:04:59** Time On Btm: **2019.05.22 @ 04:54:30**
 Time Off Btm: **2019.05.22 @ 08:02:15**

TEST COMMENT: IF-30- built to 5"
 ISI-45- no blow back
 FF-45- bob in 44 mins total build of 12"
 FSI-60- no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Anotation
0	2346.23	110.26	Initial Hydro-static
3	28.60	110.32	Open To Flow (1)
36	32.20	112.58	Shut-In(1)
81	87.27	114.34	End Shut-In(1)
81	26.91	114.55	Open To Flow (2)
128	33.94	115.77	Shut-In(2)
188	61.13	117.13	End Shut-In(2)
188	2264.63	120.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	GSOOM 20%G 10%O 70%M	0.05
0.00	GP 350'	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mc/d)

ROCK TYPES

Cht	Lmst fw<7	shale, gry	Ss
Cht vari	Lmst fw7>	Carbon Sh	Siltst
Dolprim	shale, grn	shale, red	

ACCESSORIES

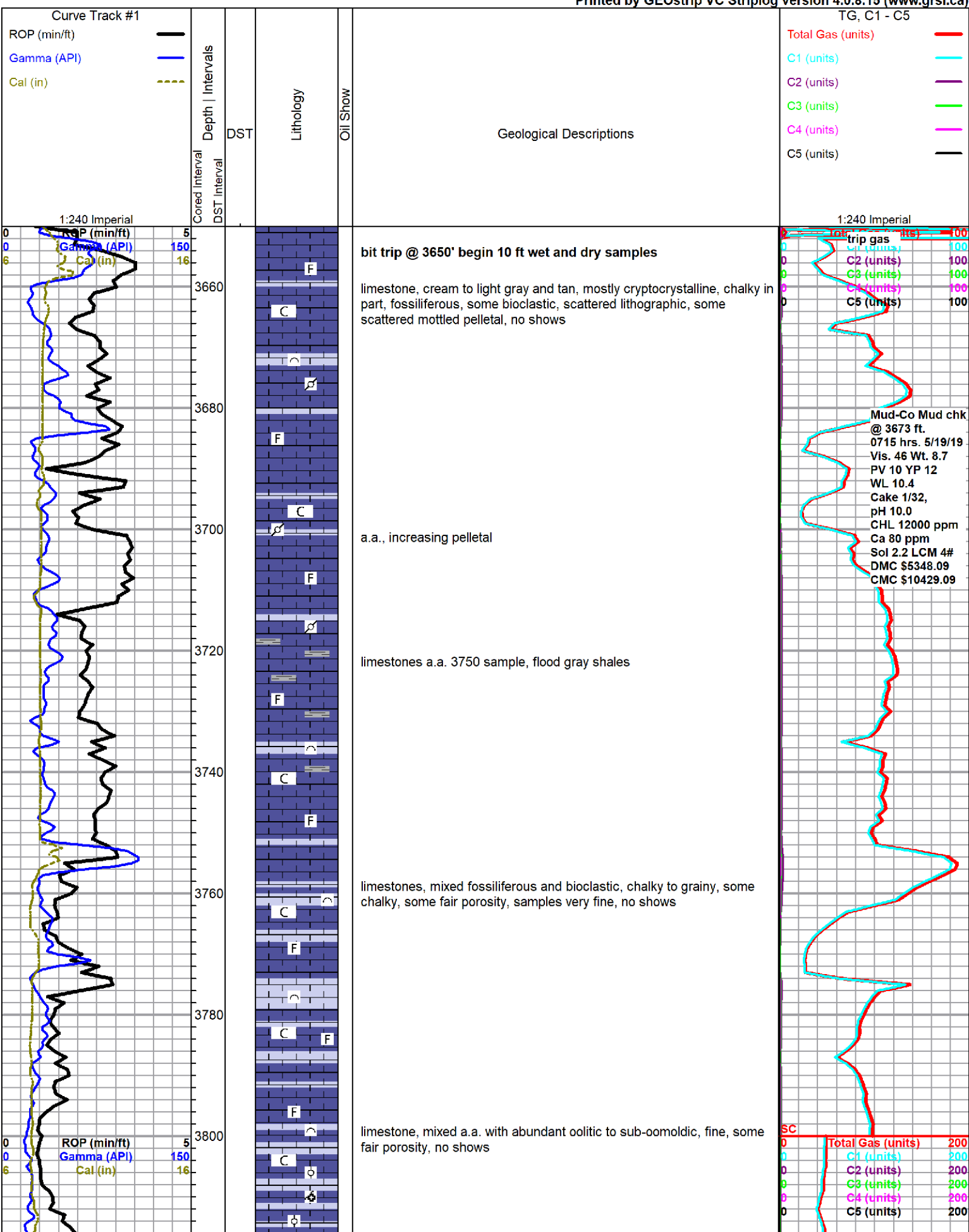
MINERAL	FOSSIL	STRINGER	TEXTURE
- Argillaceous	∩ Bioclastic or Fragmental	~ Chert	C Chalky
▲ Chert, dark	F Fossils < 20%	▨ Dolomite	FX FinexIn
▲ Dolomitic	∅ Oolite	▨ Limestone	L Lithogr
* Sandy	♁ Pellets	▨ Sandstone	MX MicroxIn
• Silty	⊕ Oomoldic	▨ Siltstone	
△ Chert White		▨ Shale	
Mc Mica		▨ green shale	

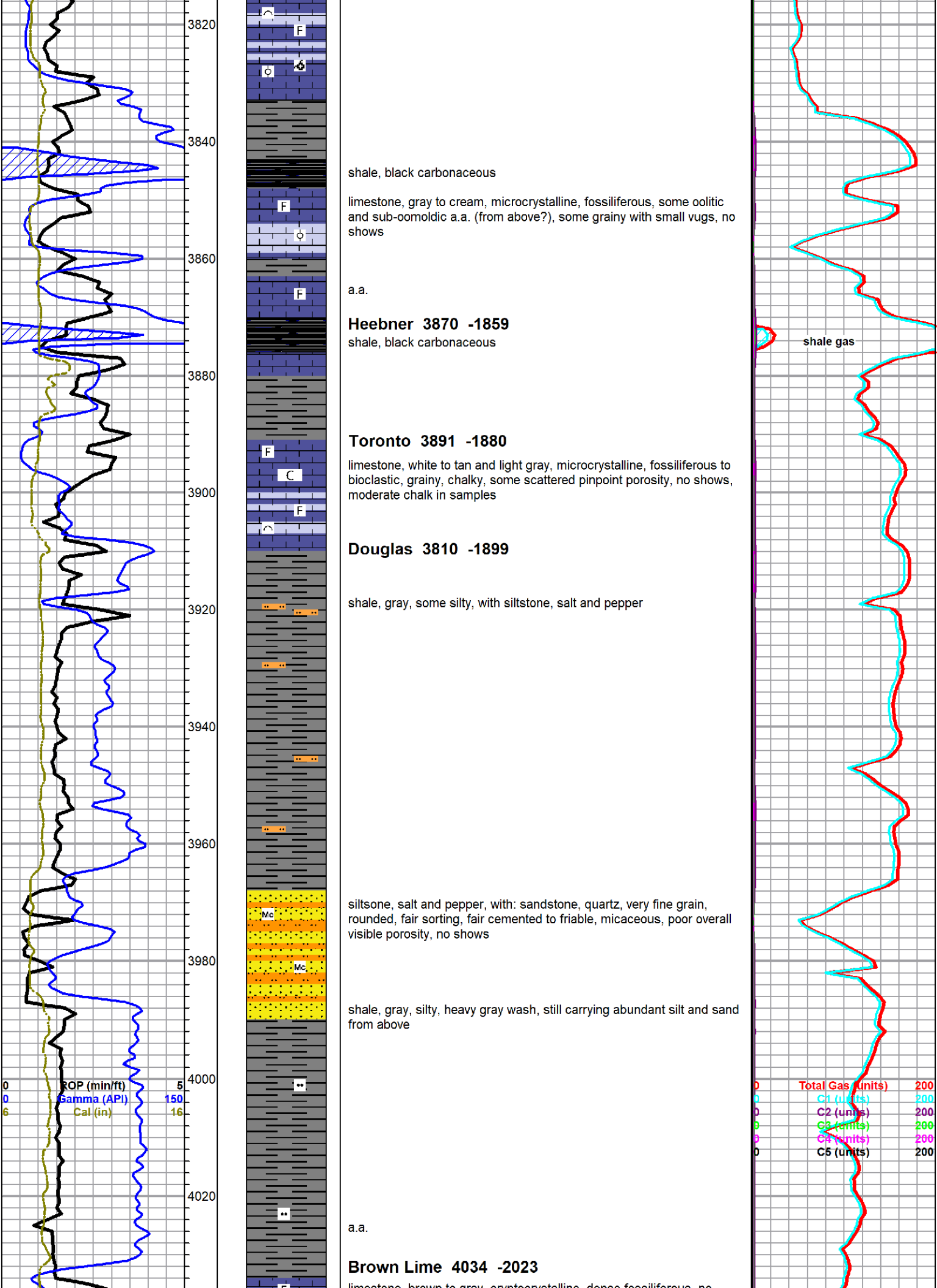
OTHER SYMBOLS

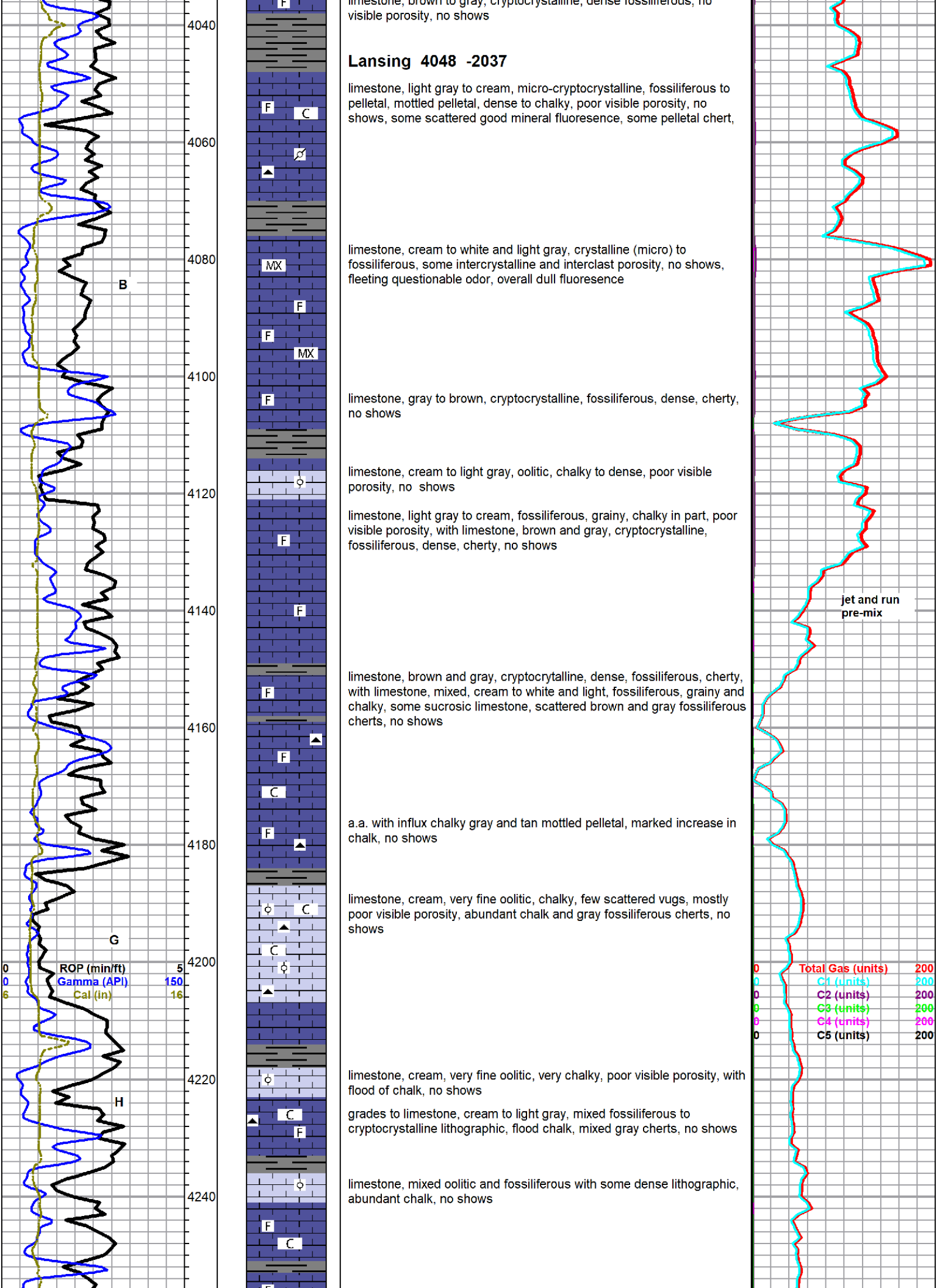
Oil Show	DST
● Good Show	■ DST Int
● Fair Show	■ DST alt
● Poor Show	■ Core

- Spotted or Trace
- Questionable Strn
- ◻ Dead Oil Strn
- Fluorescence
- * Gas

|| tail pipe







Lansing 4048 -2037

limestone, brown to gray, cryptocrystalline, dense fossiliferous, no visible porosity, no shows

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

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, cryptocrystalline, 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

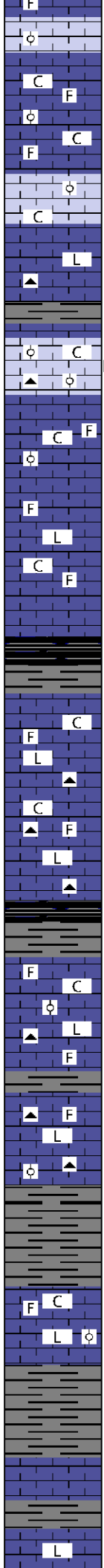
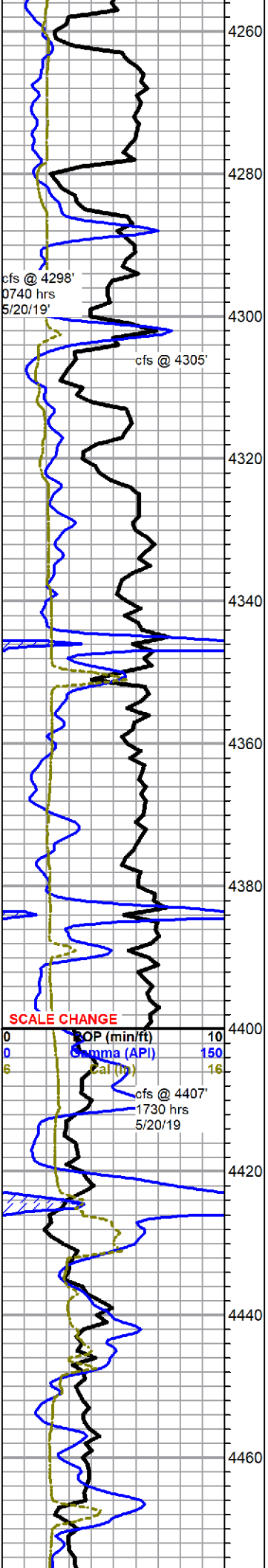
grades to limestone, cream to light gray, mixed fossiliferous to cryptocrystalline lithographic, flood chalk, mixed gray cherts, no shows

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

jet and run pre-mix

ROP (min/ft) 5
Gamma (API) 150
Cal (in) 16

Total Gas (units) 200
C1 (units) 200
C2 (units) 200
C3 (units) 200
C4 (units) 200
C5 (units) 200



as above

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 fluorescence, 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 fluorescence 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 sub-sugrosic and dolomitic, dense, no visible porosity, no shows, with

heavy rain and storms

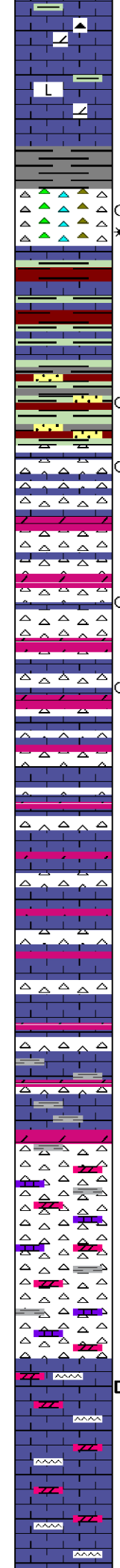
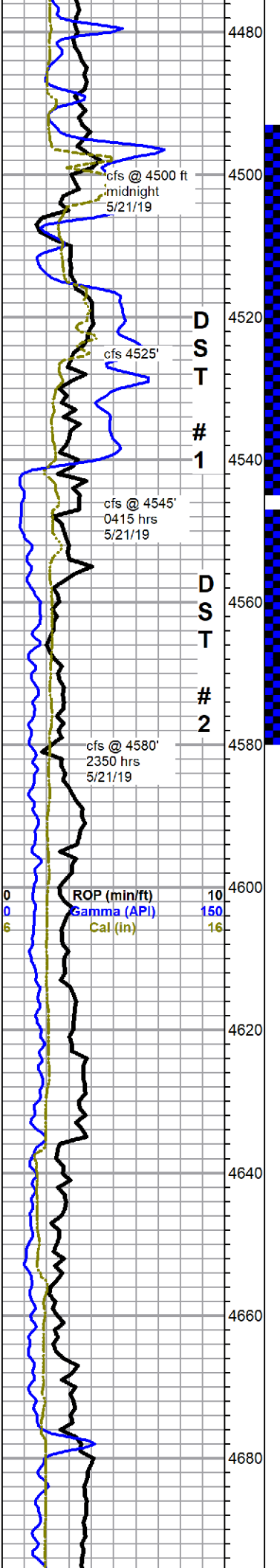
Mud-Co Mud chk @ 4331 ft.
 1300 hrs, 5/20/19
 Vis. 56 Wt. 9.1
 PV 15 YP 20
 WL 8.8
 Cake 1/32,
 pH 9.5
 CHL 8000 ppm
 Ca 80 ppm
 Sol 5.2 LCM 3#
 DMC \$3641.19
 CMC \$14070.28

shale kick (2' high)

128 units

0	Total Gas (units)	200
0	C1 (units)	200
0	C2 (units)	200
0	C3 (units)	200
0	C4 (units)	200
0	C5 (units)	200

sub-staerosic and dolomite, dense, no visible porosity, no shows with gray and tan chert, gray/grn shales, some fossiliferous



Kinderhook Chert 4502 -2491

chert, light frosted gray, opaque to translucent, 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 fluorescence, 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 fluorescence, no cut

Viola 4538 -2527

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 fluorescence, 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 fluorescence, 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

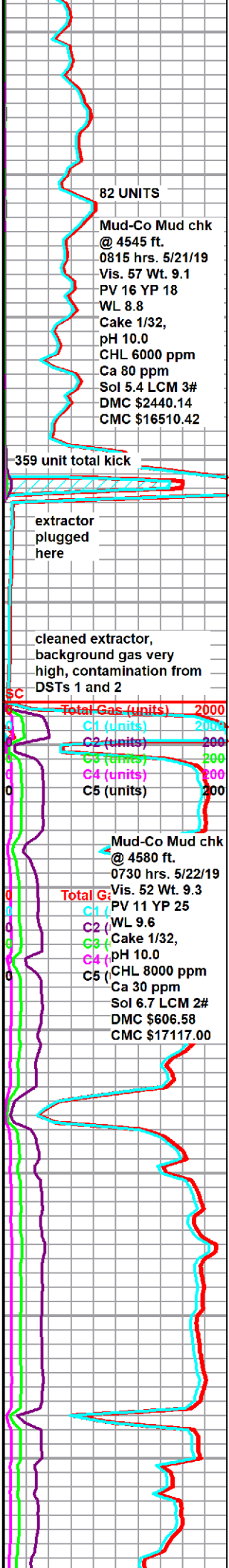
chert, boney white to gray translucent and opaque, fresh, sharp, limestone, white to cream and light gray, microcrystalline, dense to chalky, dolomite, pale green, microcrystalline, sub-rhombic, some sandy, shows have dropped out (fairly equal mix, cht. ls & dol, limestone may be slightly dominant)

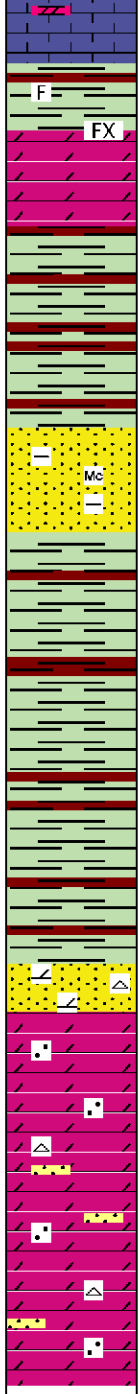
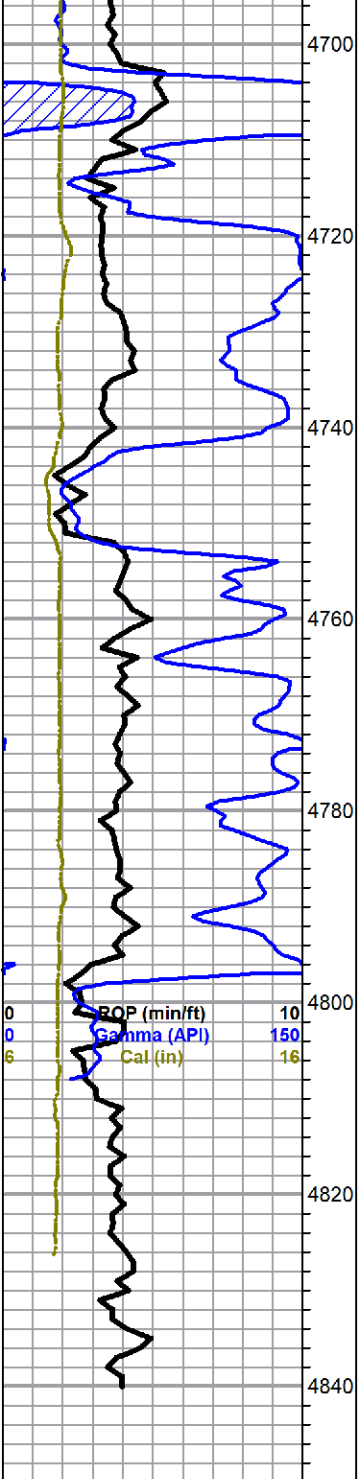
limestone, dolomite and cherts a.a., 4650 sample flood gray shale

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





Simpson Shale 4702 -2691

dolomite, streaked blue/gray and white, micro-fine crystalline, sub-rhombic, some recrystallized fossiliferous, some intercrystalline porosity, no shows - with abundant green, waxy green and maroon shales

Simpson Sand 4740 -2729

sandstone, dirty gray, quartz, very fine to medium grain, poorly to fairly sorted, fair rounding, well cemented, some scattered friable clusters, scattered fair porosity, micaceous, abundant shale inclusions, silty, no show, no fluorescence

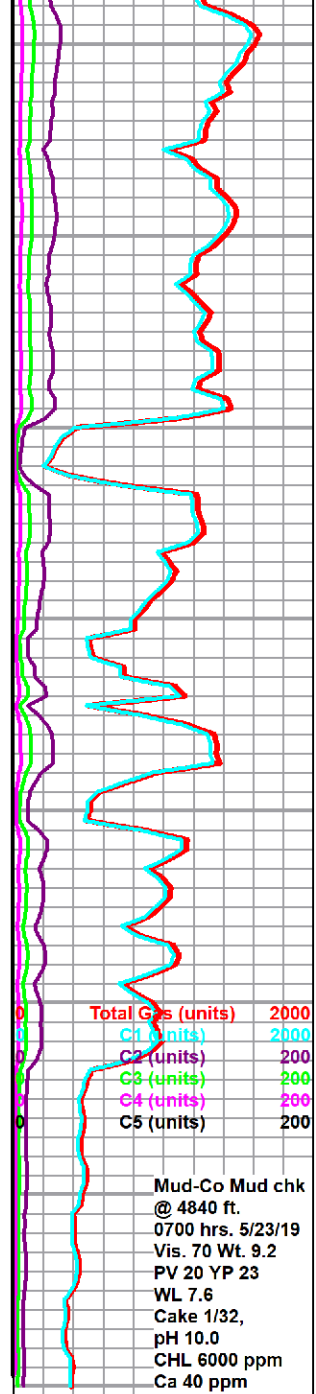
sandstone, white, very fine to fine grain, well rounded and sorted, well cemented, dolomitic, greenish fluorescence, abundant mushy chalk, trace small oolitic chert shards, no shows

Arbuckle 4801 -2790

dolomite, gray to light gray, micro-cryptocrystalline, sub-rhombic to sandy to lithographic, poor visible porosity, no shows

dolomites a.a., white sandstone stringers a.a.

Rotary TD 4840 ft @ 0535 hrs 5/23/19
 ELI Wireline TD 4842 ft



Total Gas (units)	2000
C1 (units)	2000
C2 (units)	200
C3 (units)	200
C4 (units)	200
C5 (units)	200

Mud-Co Mud chk
 @ 4840 ft.
 0700 hrs. 5/23/19
 Vis. 70 Wt. 9.2
 PV 20 YP 23
 WL 7.6
 Cake 1/32,
 pH 10.0
 CHL 6000 ppm
 Ca 40 ppm
 Sol 6.1 LCM 2#
 DMC \$2471.76
 CMC \$19588.76



PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1002427	1718	05/20/2019
INVOICE NUMBER			
92973757			

Pratt (620) 672-1201
 B LOTUS OPERATING CO. LLC
 I 100 S MAIN ST STE 420
 L WICHITA
 L KS US 67202
 T
 O ATTN: ACCOUNTS PAYABLE

J LEASE NAME Perkins #1
 O LOCATION
 B COUNTY Pratt
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
41175500			Net - 30 days	06/19/2019
			UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 05/17/2019 to 05/17/2019</i>				
0041175500				
171817916A Cement-New Well Casing/Pi 05/17/2019 New Surface Casing				
190 Sk - 60/40 Poz		1.00 SK	1,811.18	1,811.18 T
Calcium Chloride		492.00 LB	0.41	201.72 T
Celloflake		48.00 LB	1.64	78.72 T
Light Vehicle Mileage		20.00 MI	2.00	40.00
Heavy Equipment Mileage		20.00 MI	3.20	64.00
Depth Charge, 0'-1000'		1.00 HR	480.00	480.00
Blending & Mixing Service Charge		190.00 SK	0.56	106.40
Service Supervisor Charge		1.00 EA	75.00	75.00
Driver Charge		2.00 EA	35.00	70.00

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	2,927.02
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	172.56
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	3,099.58
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET
1718 17916 A

DATE _____ TICKET NO. _____

total man hrs 12

DATE OF JOB: <i>5-17-19</i>	DISTRICT: <i>Pratt KS</i>	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:			
CUSTOMER: <i>Lotus Operating</i>	LEASE: <i>Perkins</i>	WELL NO. <i>2</i>								
ADDRESS:	COUNTY: <i>Pratt</i>	STATE: <i>KS</i>								
CITY:	STATE:	SERVICE CREW: <i>Carl B. Eddie M.</i>								
AUTHORIZED BY:	JOB TYPE: <i>Cement Surface 240 516-19</i>									
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
<i>84980-2020</i>	<i>-50</i>					<i>5-18-19</i>	<i>5-17-19</i>			<i>11:00</i>
<i>19903-73768</i>	<i>-50</i>									<i>12:30</i>
										<i>1:00</i>
										<i>1:30</i>
										<i>2:00</i>
						MILES FROM STATION TO WELL	<i>20</i>			

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: *Caroline Perkins*
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
<i>BP 132</i>	<i>60/40/PCZ</i>	<i>SX</i>	<i>190</i>		<i>4417</i>
<i>CC 109</i>	<i>Calcium chloride</i>	<i>lb</i>	<i>492</i>		<i>492</i>
<i>CC 102</i>	<i>cello flake</i>	<i>lb</i>	<i>48</i>		<i>192</i>
<i>ME 101</i>	<i>light vehicle charge</i>	<i>MI</i>	<i>20</i>		<i>100</i>
<i>ME 102</i>	<i>heavy equipment charge</i>	<i>MI</i>	<i>20</i>		<i>160</i>
<i>CE 1</i>	<i>Depth charge 0-1000'</i>	<i>HR</i>	<i>1</i>		<i>1200</i>
<i>CE 240</i>	<i>Boring and mixing service charge</i>	<i>SK</i>	<i>190</i>		<i>266</i>
<i>BE 143</i>	<i>Service supervisor charge</i>	<i>pac</i>	<i>1</i>		<i>75</i>
<i>BE 144</i>	<i>Driver charge</i>	<i>pac</i>	<i>1</i>		<i>70</i>

CHEMICAL / ACID DATA:

SUB TOTAL

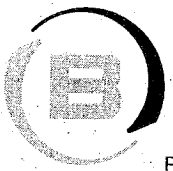
SERVICE & EQUIPMENT	%TAX ON \$	<i>1912</i>	<i>50</i>
MATERIALS	%TAX ON \$		

TOTAL
2927 *02*

SERVICE REPRESENTATIVE: *Carl B. Eddie*

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *Caroline Perkins*
(WELL OWNER OPERATOR OR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET
1718 17916 A

12

DATE _____ TICKET NO. _____

DATE OF JOB: <u>11/11</u> DISTRICT: <u>Pratt</u>		NEW WELL <input type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:								
CUSTOMER: <u>Concho</u>		LEASE: <u>Pratt</u>		WELL NO. <u>17</u>						
ADDRESS:		COUNTY: <u>Pratt</u>		STATE: <u>K</u>						
CITY: _____ STATE: _____		SERVICE CREW: <u>Mike J. Smith</u>								
AUTHORIZED BY: _____		JOB TYPE: <u>Cement Surface 242</u>								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
							<u>5/11/11</u>			<u>11:00</u>
						ARRIVED AT JOB	<u>11/11</u>			<u>12:00</u>
						START OPERATION				<u>1:00</u>
						FINISH OPERATION				<u>1:00</u>
						RELEASED				<u>2:00</u>
						MILES FROM STATION TO WELL				

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

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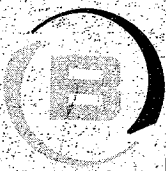
SIGNED: _____
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
PC 102	10/16/102	X	170		4617
PC 104	10/16/104	15	472		472
PC 102	10/16/102	46	48		792
MS 101	10/16/101	101	20		100
MS 102	10/16/102	101	20		100
PC 1	Depth Charge C-1000	110	1		130
PC 200	10/16/200	5K	140		280
PC 143	10/16/143	200	1		5
PC 144	10/16/144	100	1		70

CHEMICAL / ACID DATA:			

SUB TOTAL		
SERVICE & EQUIPMENT	%TAX ON \$	<u>1917</u>
MATERIALS	%TAX ON \$	
TOTAL		<u>1917</u>

SERVICE REPRESENTATIVE: <u>[Signature]</u>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>[Signature]</u>
FIELD SERVICE ORDER NO. <u>0</u>	(WELL OWNER OPERATOR CONTRACTOR OR AGENT)



BASICSM
 ENERGY SERVICES
 PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET
 1718 17316 A

DATE _____ TICKET NO. _____

DATE OF JOB _____	DISTRICT _____	NEW WELL <input type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO. _____			
CUSTOMER _____				LEASE _____						
ADDRESS _____				WELL NO. <u>4</u>						
CITY _____		STATE _____		COUNTY _____		STATE _____				
AUTHORIZED BY _____				SERVICE CREW _____						
				JOB TYPE: <u>Completion</u> <u>249</u>						
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
<u>413-171</u>	<u>1.50</u>									
<u>1703-7518</u>	<u>1.50</u>									
						ARRIVED AT JOB				
						START OPERATION				
						FINISH OPERATION				
						RELEASED				
						MILES FROM STATION TO WELL	<u>20</u>			

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

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SIGNED: _____
 (WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT

CHEMICAL / ACID DATA			

SUB TOTAL		
SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE _____	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: _____
------------------------------	---

FIELD SERVICE ORDER NO. _____ (WELL OWNER OPERATOR CONTRACTOR OR AGENT)

Customer <i>John Smith</i>		Lease No. <i>1</i>		Date <i>3/11/11</i>	
Lease <i>1</i>		Well # <i>1</i>			
Field Order #	Station <i>1</i>	Casing <i>5 7/8</i>	Depth <i>575</i>	County <i>Pratt</i>	State <i>KS</i>
Type Job <i>Acid</i>			Formation	Legal Description	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
Depth <i>575</i>	Depth	From	To	Pre Pad		Max		5 Min.
Volume	Volume	From	To	Pad		Min		10 Min.
Max Press <i>120</i>	Max Press	From	To	Frac		Avg		15 Min.
Well Connection	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth <i>575</i>	Packer Depth	From	To	Flush		Gas Volume		Total Load

Customer Representative <i>John Smith</i>	Station Manager <i>John Smith</i>	Treater <i>John Smith</i>
---	-----------------------------------	---------------------------

Service Units									
Driver Names									

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>12:00</i>					<i>Start</i>
<i>12:10</i>					<i>100 bbls</i>
<i>12:20</i>					<i>200 bbls</i>
<i>12:30</i>	<i>110</i>		<i>4213</i>	<i>45</i>	<i>110 bbls @ 110 psi</i>
<i>12:40</i>	<i>110</i>		<i>1863</i>	<i>3</i>	<i>70 bbls @ 110 psi</i>
<i>12:50</i>					<i>Stop</i>



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

Start Date: 2019.05.21 @ 09:56:00

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

Printed: 2019.05.22 @ 10:22:49

Lotus Operating Co
13-29s-15w
Perkins #1
DST # 1
Kinderhook-viola
2019.05.21



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Lotus Operating Co

13-29s-15w

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

Perkins #1

ATTN: Keith Reavis

Job Ticket: 65787

DST#: 1

Test Start: 2019.05.21 @ 09:56:00

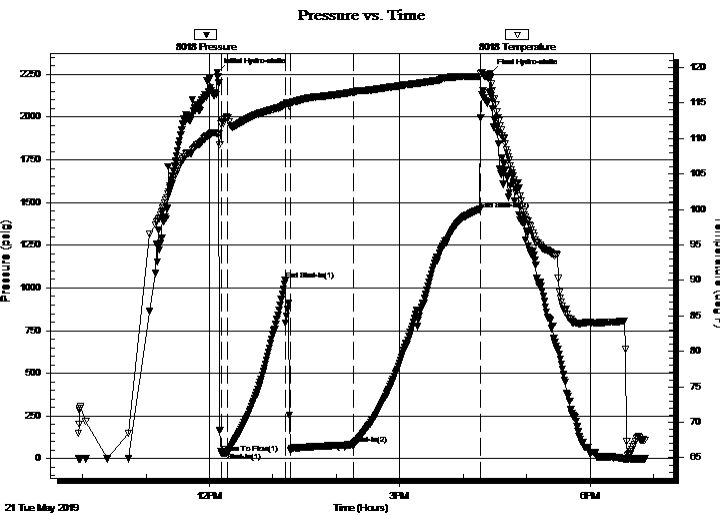
GENERAL INFORMATION:

Formation: **Kinderhook-viola**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:11:15
 Time Test Ended: 18:52:30
 Interval: **4493.00 ft (KB) To 4545.00 ft (KB) (TVD)**
 Total Depth: 4545.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Benny Mulligan
 Unit No: 67
 Reference Elevations: 2011.00 ft (KB)
 1998.00 ft (CF)
 KB to GR/CF: 13.00 ft

Serial #: 8018

Press@RunDepth: 81.97 psig @ ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.05.21 End Date: 2019.05.21 Last Calib.: 2019.05.21
 Start Time: 09:56:05 End Time: 18:52:30 Time On Btm: 2019.05.21 @ 12:07:15
 Time Off Btm: 2019.05.21 @ 16:25:30

TEST COMMENT: IF-5-BOB 1min 40 secs total build of 24"
 ISI-60- no blow back
 FF-60- BOB 25 secs total build of 102"
 FSI-120- no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2262.09	110.71	Initial Hydro-static
4	32.44	112.55	Open To Flow (1)
10	36.34	112.92	Shut-In(1)
65	1044.57	114.80	End Shut-In(1)
70	45.92	114.83	Open To Flow (2)
129	81.97	116.53	Shut-In(2)
249	1460.07	118.74	End Shut-In(2)
259	2255.58	118.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	G.S.O.C.M 40%G 10%O 50%M	0.59
60.00	O.S.M. 100%M	0.31
0.00	G.I.P. 896'	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lotus Operating Co

13-29s-15w

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

Perkins #1

Job Ticket: 65787

DST#: 1

ATTN: Keith Reavis

Test Start: 2019.05.21 @ 09:56:00

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/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	G.S.O.C.M 40%G 10%O 50%M	0.590
60.00	O.S.M. 100%M	0.313
0.00	G.I.P. 896'	0.000

Total Length: 180.00 ft Total Volume: 0.903 bbl

Num Fluid Samples: 0

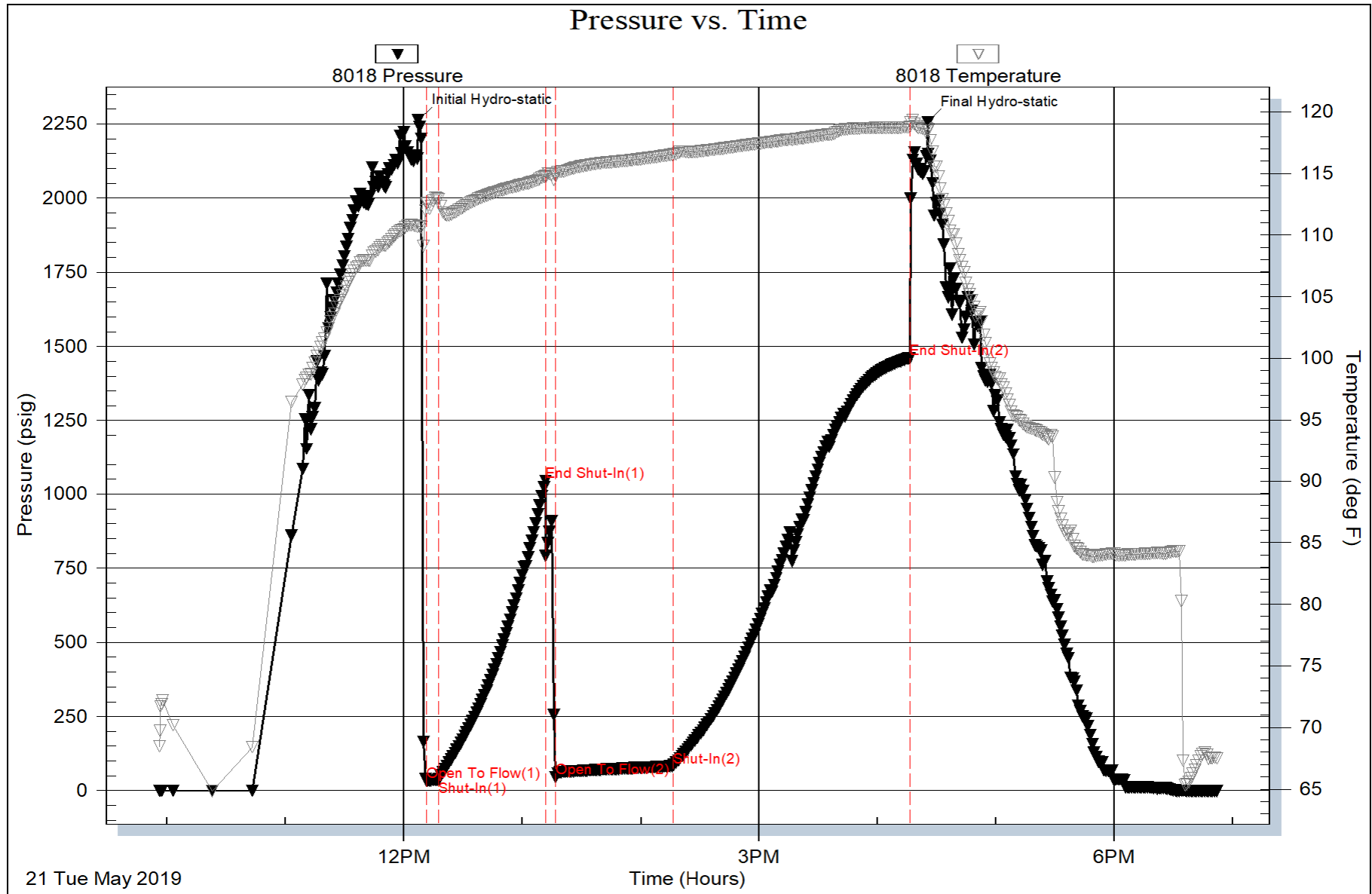
Num Gas Bombs: 0

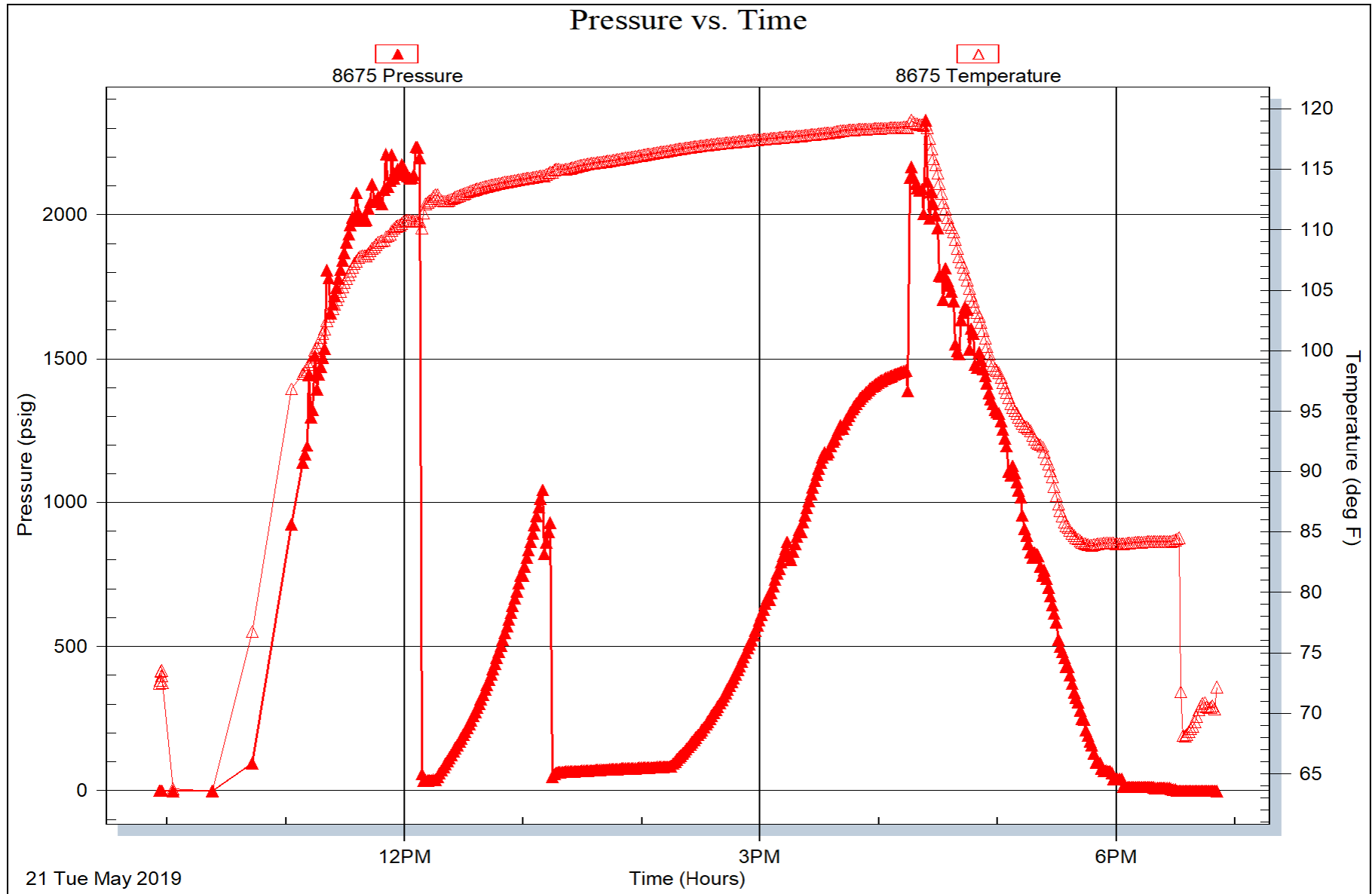
Serial #:

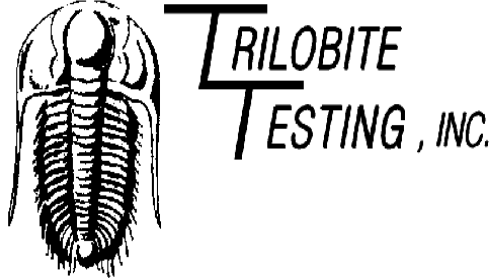
Laboratory Name:

Laboratory Location:

Recovery Comments:







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

Start Date: 2019.05.22 @ 02:38:00

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

Printed: 2019.05.22 @ 11:19:25

Lotus Operating Co
13-29s-15w
Perkins #1
DST # 2
Viola
2019.05.22



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Lotus Operating Co

13-29s-15w

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

Perkins #1

ATTN: Keith Reavis

Job Ticket: 65788

DST#: 2

Test Start: 2019.05.22 @ 02:38:00

GENERAL INFORMATION:

Formation: **Viola**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:56:45

Time Test Ended: 10:05:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Benny Mulligan

Unit No: 67

Interval: 4547.00 ft (KB) To 4580.00 ft (KB) (TVD)

Reference Elevations: 2011.00 ft (KB)

Total Depth: 4580.00 ft (KB) (TVD)

1998.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

Serial #: 8018

Inside

Press@RunDepth: 33.94 psig @ 4548.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.05.22

End Date:

2019.05.22

Last Calib.:

2019.05.22

Start Time: 02:38:05

End Time:

10:04:59

Time On Btm:

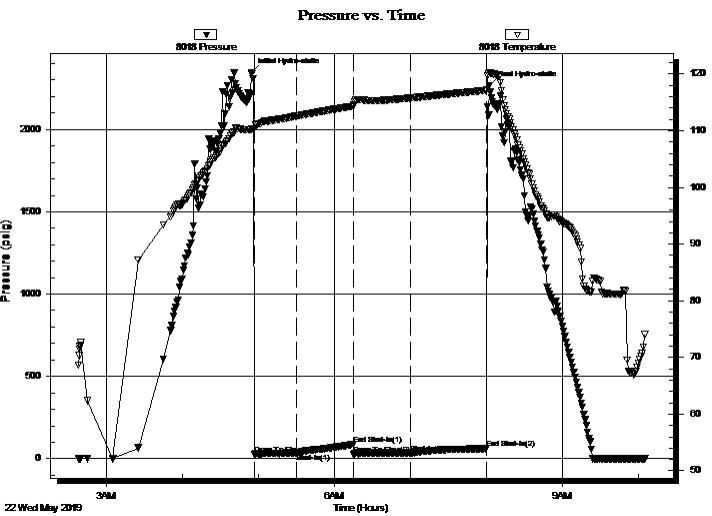
2019.05.22 @ 04:54:30

Time Off Btm:

2019.05.22 @ 08:02:15

TEST COMMENT:

IF-30- built to 5"
 IS-45- no blow back
 FF-45- bob in 44 mins total build of 12"
 FS-60- no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2346.23	110.26	Initial Hydro-static
3	28.60	110.32	Open To Flow (1)
36	32.20	112.58	Shut-In(1)
81	87.27	114.34	End Shut-In(1)
81	26.91	114.55	Open To Flow (2)
126	33.94	115.77	Shut-In(2)
186	61.13	117.13	End Shut-In(2)
188	2264.63	120.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	GSOCM 20%G 10%O 70%M	0.05
0.00	GIP 350'	0.00

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lotus Operating Co

13-29s-15w

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

Perkins #1

Job Ticket: 65788

DST#: 2

ATTN: Keith Reavis

Test Start: 2019.05.22 @ 02:38:00

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/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	GSOCM 20%G 10%O 70%M	0.049
0.00	GIP 350'	0.000

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

