

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)</i> <i>(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	Carmen Schmitt, Inc.
Well Name	HOLM 1
Doc ID	1584565

Tops

Name	Top	Datum
Stone Corral	2636	391
Topeka	3811	-784
Heebner Sh.	4015	-988
Toronto	4038	-1011
Lansing	4054	-1027
BKC	4319	-1292
Marmaton	4329	-1302
Pawnee Lime	4437	-1410
Ft.Scott	4470	-1443
Cherokee	4498	-1471
Mississippi	4640	-1613

COPELAND

Acid & Cement

BURRTON, KS ♦ GREAT BEND, KS
 (620) 463-5161 (620) 793-3366
 FAX (620) 463-2104 FAX (620) 793-3536

POST OFFICE BOX 438
 HAYSVILLE, KS 67060
 (316) 524-1225
 (316) 524-1027 FAX

Invoice

INVOICE NUMBER:
C60342-IN

BILL TO:
CARMEN SCHMITT, INC.
PO BOX 47
GREAT BEND, KS 67530

LEASE: HOLM #1

DATE	ORDER	SALESMAN	ORDER DATE	PURCHASE ORDER	SPECIAL INSTRUCTIONS	
06/23/2021	60342		06/20/2021	HOLM #1	NET 30	
QUANTITY	U/M	ITEM NO./DESCRIPTION		D/C	PRICE	EXTENSION
80.00	MI	MILEAGE CEMENT PUMP TRUCK		0.00	4.00	320.00
1.00	EA	PUMP CHARGE SURFACE		0.00	1,100.00	1,100.00
225.00	SK	60/40 POZ MIX 2% GEL		0.00	11.25	2,531.25
12.00	SK	CALCIUM CHLORIDE		0.00	40.00	480.00
237.00	EA	BULK CHARGE		0.00	1.25	296.25
834.24	MI	BULK TRUCK - TON MILES		0.00	1.10	917.66
		<i>7/10/43</i> <i>19888.0133</i> <i>BCP Well Site</i> <i>Surface Casing Cement</i>				
REMIT TO: P.O. BOX 438 HAYSVILLE, KS 67060		COP		Net Invoice:		5,645.16
		FUEL SURCHARGE IS NOT TAXABLE AND IS ADDED TO MILEAGE, PUMP AND OR DELIVERY CHARGES ONLY.		THOMCO Sales Tax:		248.43
RECEIVED BY		NET 30 DAYS		Invoice Total:		5,893.59

There will be a charge of 1.5% "per month" (18% annual rate) on all accounts over 30 days pas

Copeland Acid & Cement is a subsidiary of Gressel Oil Field Service

Gressel Oil Field Service reserves a security interest in the goods sold until the same are paid for in full and reserve all the rights of a secured party under the Uniform Commercial Code.



NEW WELL

FIELD ORDER N° C 60342

BOX 438 - HAYSVILLE, KANSAS 67060 316-524-1225

DATE 20-Jun 20 21

IS AUTHORIZED BY: CARMEN SCHMITT (NAME OF CUSTOMER)

Address City State KS

TO TREAT WELL AS FOLLOWS Lease HOLM Well No. 1 Customer Order No.

Sec. Twp. Range 33-8-31W County THOMAS State KS

CONDITIONS: As a part of the consideration hereof it is agreed that Copeland Acid is to service or treat at owners risk, the hereinbefore mentioned well and is not to be held liable for any damage that may occur in connection with said service or treatment.

The undersigned represents himself to be duly authorized to sign this order for well owner or operator.

THIS ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED

By Agent

Well Owner or Operator

Table with 5 columns: CODE, QUANTITY, DESCRIPTION, UNIT COST, AMOUNT. Rows include Mileage P.T., Pump Charge Surface, 60/40 Poz 2% Gel, Calcium Chloride per 50 lb., Bulk Charge, Bulk Truck Miles, and TOTAL BILLING \$5,645.16.

I certify that the above material has been accepted and used; that the above service was performed in a good and workmanlike manner under the direction, supervision and control of the owner, operator or his agent, whose signature appears below.

Copeland Representative GREG C.

Station GB

MATT SUCHY

Well Owner, Operator or Agent

Remarks

NET 30 DAYS



DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc**

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

Holm #1

33-8s-31w Thomas,KS

Start Date: 2021.06.26 @ 07:32:02

End Date: 2021.06.26 @ 12:49:32

Job Ticket #: 67458 DST #: 1

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

Printed: 2021.06.30 @ 10:54:28



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Carmen Schmitt Inc
PO Box 47
Great Bend, KS 67530
ATTN: Brad Rine

33-8s-31w Thomas,KS

Holm #1

Job Ticket: 67458

DST#: 1

Test Start: 2021.06.26 @ 07:32:02

GENERAL INFORMATION:

Formation: **LKC H-1**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:52:02

Time Test Ended: 12:49:32

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 79

Interval: 4173.00 ft (KB) To 4283.00 ft (KB) (TVD)

Reference Elevations: 3027.00 ft (KB)

Total Depth: 4238.00 ft (KB) (TVD)

3017.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8674 Outside

Press@RunDepth: 24.23 psig @ 4174.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.06.26 End Date: 2021.06.26

Last Calib.: 2021.06.26

Start Time: 07:32:07 End Time: 12:49:31

Time On Btm: 2021.06.26 @ 09:50:02

Time Off Btm: 2021.06.26 @ 10:46:32

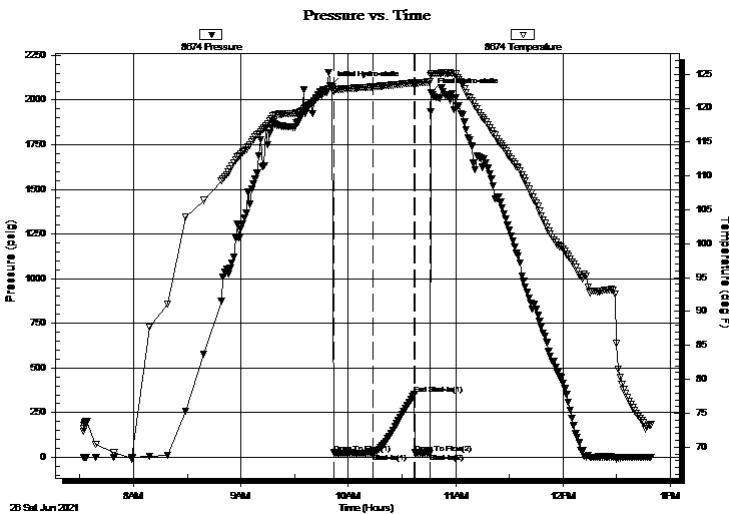
TEST COMMENT: IF: 1/4" blow died in 11 mins.

IS: No return.

FF: No blow.

FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2079.71	123.14	Initial Hydro-static
2	23.80	122.49	Open To Flow (1)
24	24.23	123.13	Shut-In(1)
47	353.64	123.73	End Shut-In(1)
48	23.54	123.67	Open To Flow (2)
56	22.98	123.87	Shut-In(2)
57	2041.86	125.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	mud 100%m	0.03

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Carmen Schmitt Inc
PO Box 47
Great Bend, KS 67530
ATTN: Brad Rine

33-8s-31w Thomas, KS

Holm #1

Job Ticket: 67458 **DST#: 1**

Test Start: 2021.06.26 @ 07:32:02

GENERAL INFORMATION:

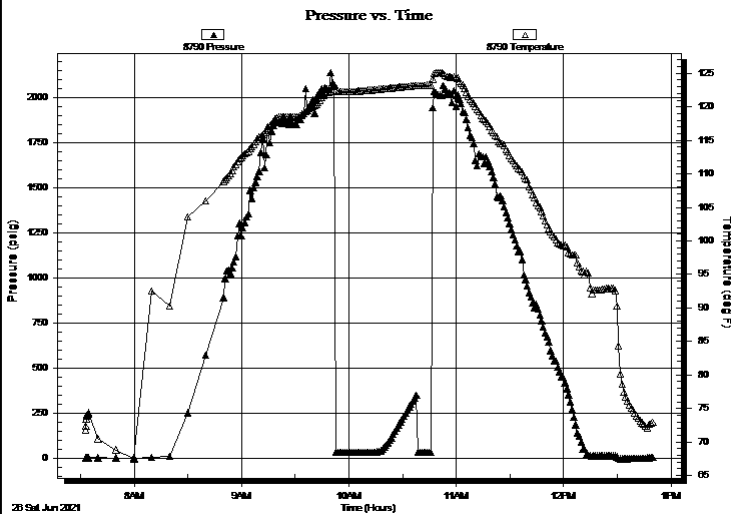
Formation: **LKC H-1**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:52:02
 Time Test Ended: 12:49:32
 Interval: **4173.00 ft (KB) To 4283.00 ft (KB) (TVD)**
 Total Depth: 4238.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Brandon Turley
 Unit No: 79
 Reference Elevations: 3027.00 ft (KB)
 3017.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8790

Inside

Press@RunDepth: psig @ 4174.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2021.06.26 End Date: 2021.06.26 Last Calib.: 2021.06.26
 Start Time: 07:32:51 End Time: 12:50:15 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: 1/4" blow died in 11 mins.
 IS: No return.
 FF: No blow.
 FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
2.00	mud 100% m	0.03

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt Inc
PO Box 47
Great Bend, KS 67530
ATTN: Brad Rine

33-8s-31w Thomas,KS
Holm #1
Job Ticket: 67458 **DST#: 1**
Test Start: 2021.06.26 @ 07:32:02

Tool Information

Drill Pipe:	Length: 4163.00 ft	Diameter: 3.80 inches	Volume: 58.40 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 58.40 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4173.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.00 ft			
Tool Length:	92.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Stubb	1.00			4147.00	
Shut In Tool	5.00			4152.00	
Hydraulic tool	5.00			4157.00	
Jars	5.00			4162.00	
Safety Joint	2.00			4164.00	
Packer	5.00			4169.00	27.00 Bottom Of Top Packer
Packer	4.00			4173.00	
Stubb	1.00			4174.00	
Recorder	0.00	8790	Inside	4174.00	
Recorder	0.00	8674	Outside	4174.00	
Perforations	27.00			4201.00	
Change Over Sub	1.00			4202.00	
Drill Pipe	32.00			4234.00	
Change Over Sub	1.00			4235.00	
Bullnose	3.00			4238.00	65.00 Bottom Packers & Anchor

Total Tool Length: 92.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt Inc
PO Box 47
Great Bend, KS 67530
ATTN: Brad Rine

33-8s-31w Thomas,KS
Holm #1
Job Ticket: 67458 **DST#: 1**
Test Start: 2021.06.26 @ 07:32:02

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.19 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: 1.00 inches			

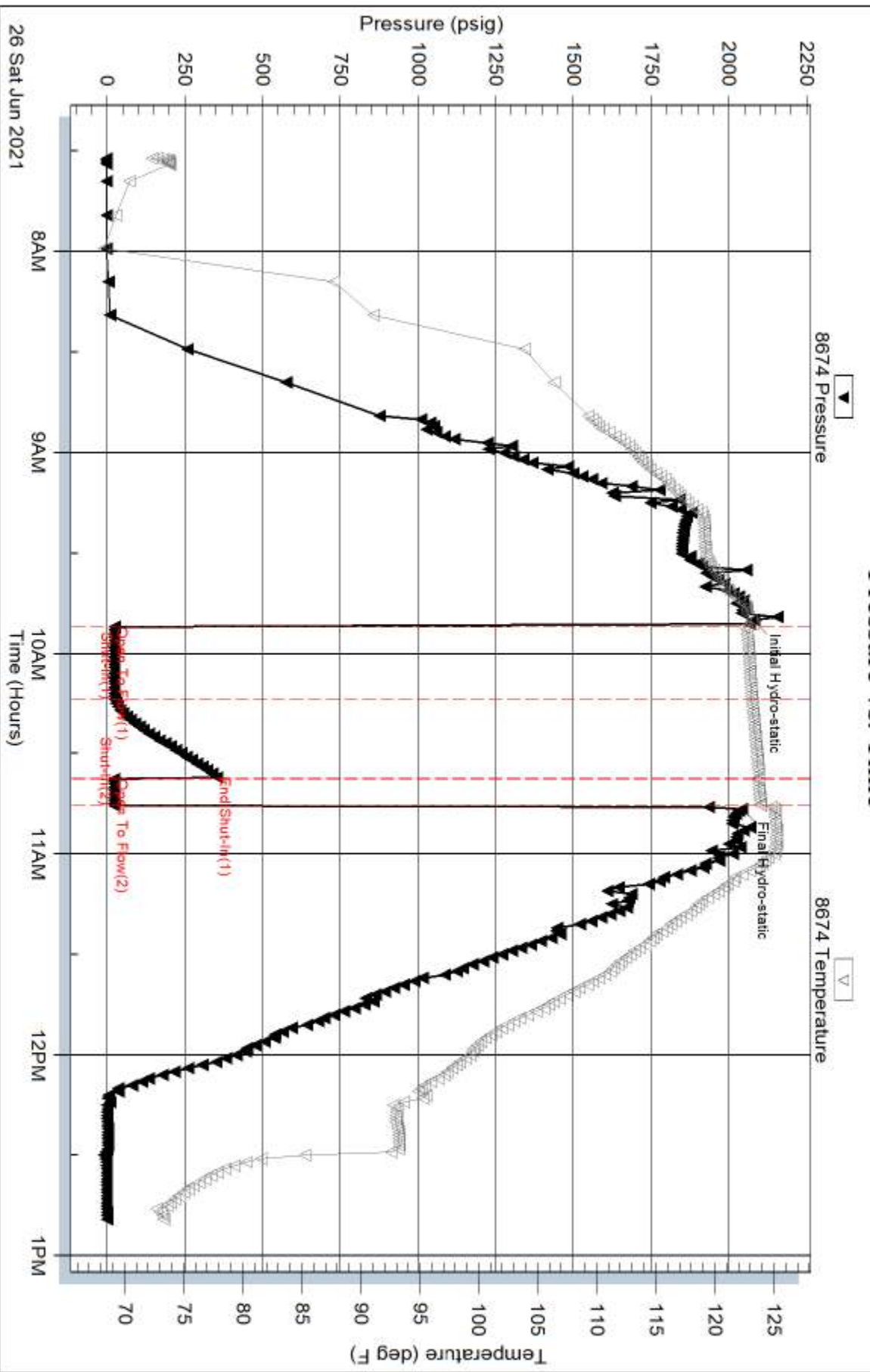
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	mud 100%m	0.028

Total Length: 2.00 ft Total Volume: 0.028 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Pressure vs. Time



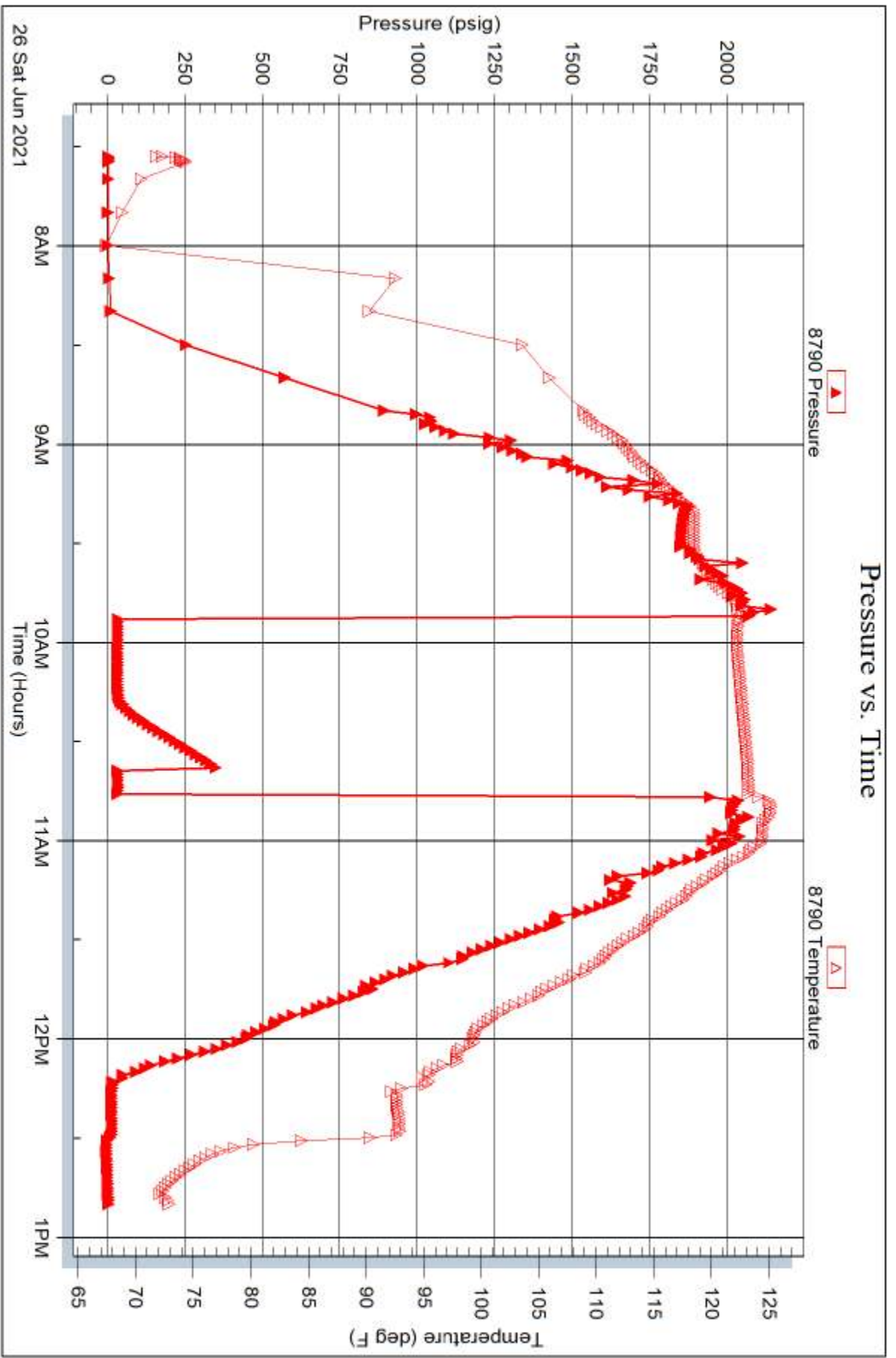
Serial #: 8790

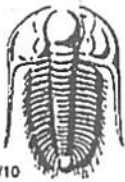
Inside

Carmen Schnitt Inc

Holm #1

DST Test Number: 1





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 67458

Well Name & No. Holm #1 Test No. 1 Date 6-26-21
 Company Carmen Schmitt, Inc Elevation 3027 KB 3017 GL
 Address P.O. Box 47 Great Bend, KS 67530
 Co. Rep / Geo. Bryd Rine Rig Southwind #8
 Location: Sec. 33 Twp 85 Rge. 31W Co. Thom 95 State KS

Interval Tested 4173 4238 Zone Tested LK H-I
 Anchor Length 65 Drill Pipe Run 4163 Mud Wt. 9.2
 Top Packer Depth 4168 Drill Collars Run — Vis 58
 Bottom Packer Depth 4173 Wt. Pipe Run — WL 7.2
 Total Depth 4238 Chlorides 2060 ppm System LCM 4
 Blow Description IF: 1/4 blow died in 11 min.
IS: No return.
FF: No blow.
FS: Pulled tool

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>MUD</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 2 BHT 123 Gravity — API RW — @ — °F Chlorides — ppm
 (A) Initial Hydrostatic 2079 Test 1300
 (B) First Initial Flow 23 Jars 250
 (C) First Final Flow 24 Safety Joint 75
 (D) Initial Shut-In 353 Circ Sub NIL
 (E) Second Initial Flow 23 Hourly Standby —
 (F) Second Final Flow 22 Mileage 174-X2 217.50
 (G) Final Shut-In — Sampler — 217.50
 (H) Final Hydrostatic 2041 Straddle —
 Shale Packer —
 Extra Packer —
 Extra Recorder —
 Day Standby —
 Accessibility —
 Sub Total 2060

T-On Location 4:30
 T-Started 7:32
 T-Open 9:52
 T-Pulled 10:47
 T-Out 12:51

Comments 6-28-21
Loaded 3:00 pm
two days out of town

EM Tool —
 Ruined Shale Packer —
 Ruined Packer —
 Extra Copies —
 Sub Total 0
 Total 2060
 MP/DST Disc't —

Approved By [Signature] Our Representative [Signature]

TriLOBITE TESTING INC. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



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

Well Name: Holm #1 - Carmen Schmitt, Inc.
API: 15-193-21087-00-00
Location: C-NE-NE-SW-SE, Section 33-08S-31W
License Number: KCC #6569
Spud Date: June 19, 2021
Surface Coordinates: 1050' FSL & 1350' FEL,
of Section
Bottom Hole Vertical Wellbore
Coordinates:
Ground Elevation (ft): 3017 Ft. K.B. Elevation (ft): 3027 Ft.
Logged Interval (ft): 3600 Ft. To: 4700 Ft. Total Depth (ft): RTD 4700 Ft. LTD 4698 Ft.
Formation: Mississippian at Total Depth
Type of Drilling Fluid: Chemical

Region: Thomas County, Kansas
Drilling Completed: June 28, 2021
Results: P & A
Field: NA

Printed by MudLog from WellSight Systems 1-800-447-1534 www.WellSight.com

Operator

Company: Carmen Schmitt, Inc.
Address: PO Box 47
Great Bend, Kansas 67530-0047

Geologist

Name: M. Bradford Rine
Company: Consulting Geologist, Kansas Lic. #204, Wyo #189, AAPG Cert. #2647
Address: 100 South Main, Suite #320A
Wichita, Kansas 67202

Remarks

Based on sample observations, drill stem test results, and electric log evaluation, it was the decision of the Operator, to plug and abandon the "Holm #1", on June 28, 2021.

Respectfully submitted,
M. Bradford Rine, geologist

Drilling Information

Rig: Southwind, Rig #8
Pump: Emsco D-375 6x14
Drawworks: RMI 550
Collars: 480' 2-1/4 x 6-1/4
Drillpipe: 4-1/2" 16.6# XH
Toolpusher: Doug Roberts

Mud: Mudco (Reid Atkins)
Gas Detector: None
Drill Stem Tests: Trilobite (Brandon Turley)
Logs: Midwest (Dan Schmidt)
Water: Farm Pond (Midwest Water Line)
Company Representatives:
Office: Carmen Schmitt
Field: None

Daily Drilling Status

Date:	Operations/Depth/Comments
06-19-21	MIRT, RU @ 0'
06-20-21	Drilling @ 212'
06-21-21	Drilling @ 1109'
06-22-21	Bit Trip @ 2634'
06-23-21	Drilling @ 3270'
06-24-21	Drilling @ 3715'
06-25-21	Circulating for Samples @ 4064'
06-26-21	Trip Out of Hole for DST #1 @ 4238'
06-27-21	Drilling @ 4400'
06-28-21	Circulating for Samples at RTD @ 4700'
06-29-21	Plugging completed 11:00 pm, 06-28-21

	Results: D&A			(Well A) Oil		(Well B) Oil		(Well C) D&A		Well A Well B Well C		
	Carmen Schmitt, Inc.			Brito Oil Co., Inc.		Carmen Schmitt, Inc.		McCoy Petroleum				
	Holm #1			Blevins #1-4		H&V Farms #2-35		Schmidt "B" #1-3				
	1050'FSL & 1350'FEL			660'FNL & 330'FWL		720'FNL & 2210'FEL		C-NW-SE-NW				
	Sec. 33-085-31W			Sec. 095-31W		Sec. 35-085-31W		Sec. 03-09-31W				
	KB 3027			KB 3037		KB 2980		KB 3004		Well A	Well B	Well C
Formations	Sample	E-Log	Datum	E-Log	Datum	E-Log	Datum	E-Log	Datum	Comparison(s)		
Anhydrite	2633	2636	391	2634	403	2604	376	2611	393	-12	15	-2
B/Anhydrite	2663	2668	359	2665	372	2635	345	2644	360	-13	14	-1
Tarkio	3678	3684	-657	3675	-638	3648	-668	3668	-664	-19	11	7
Topeka	3808	3811	-784	3804	-767	3772	-792	3796	-792	-17	8	8
Oread	3974	3974	-947	3965	-928	3936	-956	3960	-956	-19	9	9
Heebner Sh.	4017	4015	-988	4007	-970	3975	-995	4004	-1000	-18	7	12
Toronto	4039	4038	-1011	4029	-992	3998	-1018	4027	-1023	-19	7	12
Lansing	4055	4054	-1027	4042	-1005	4012	-1032	4042	-1038	-22	5	11
Muncie Creek Sh.	4176	4174	-1147	4168	-1131	4132	-1152	4167	-1163	-16	5	16
Stark Sh.	4261	4258	-1231	4255	-1218	4216	-1236	4250	-1246	-13	5	15
B/Kansas City	4322	4319	-1292	4311	-1274	4275	-1295	4311	-1307	-18	3	15
Marmaton	4332	4329	-1302	4328	-1291	4286	-1306	4320	-1316	-11	4	14
Pawnee	4438	4437	-1410	NDE		4384	-1404	4427	-1423	NA	-6	13
Ft. Scott	4472	4470	-1443	NDE		4420	-1440	4460	-1456	NA	-3	13
Cherokee Sh.	4499	4498	-1471	NDE		4454	-1474	4490	-1486	NA	3	15
Conglomerate	4594	4592	-1565	NDE		4556	-1576	4586	-1582	NA	11	17
Mississippian	4640	4640	-1613	NDE		4580	-1600	4616	-1612	NA	-13	-1
Total Depth	4700	4698	-1671	4400	-1363	4635	-1655	4711	-1707	-308	-16	36

Casing Record, Bit Record, Deviation Surveys

CASING:

Conductor: None

Surface: Ran 7 jts of new, 20#, 8 5/8" casing, tally @ 295', set @ 307'. (Copeland) Cement 225 sx of 60/40 poz, 2% gel, 3% cc, 1/4# flo-seal. Cement did circulate. Plug down @ 10:45am, June 20, 2021.

Production: Plugged as follows: (Quality) Total, 255 sacks of 60/40 Poz, 4% gel, 1/4# flo-seal; 1st plug set @ 2675' w/ 50 sacks, 2nd plug @ 1750' w/ 100 sacks, 3rd plug @ 350' w/ 50 sacks, 4th plug @ 40' w/ 10 sacks, RH w/ 30 sacks, MH w/ 15 sacks, job completed @ 11:00 pm, June 28, 2021.

BITS:

No.	Size	Make	Model	Depth In	Depth Out	Hours
1	12-1/4	JZ	MT	0	310	2.50
2	7-7/8	JZ	PDC	310	2634	15.50
3	7-7/8	JZ	HA20C	2634	4700	94.00

DEVIATION SURVEYS:

Deviation:	Depth:	Deviation:	Depth:
0.75*	310'	misrun	4238'
0.75*	2634'	0.50*	4700'

PIPE STRAPS:

Difference:	Depth:
0.14' Long	4238'

DISPLACE & MUPUP:

Lost partial returns and temporarily stuck @ 3301 Ft.
Pulled five stands and regained circulation. Decision made to displace and mudup at 3301 Ft.

DST #1: 4173-4238 (LKC H,I)

Times: 15-30-10-out

**Initial Open: Wk Blow, Built to 1/4",
died in 11 min.**

Final Open: No Blow

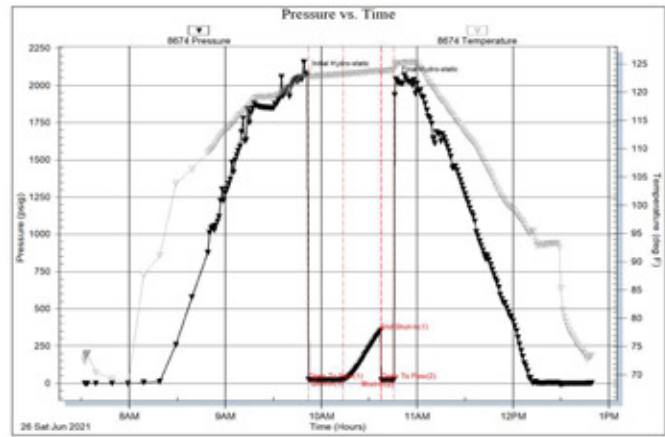
Rec: 2' mud

IHP: 2079 FHP: 2041

IFP: 23-24 FFP: 23-22

ISIP: 353 FSIP: NA

BHT: 123°F



Rock Types

	Cgl/gran wash		Bent		Dol		Salt		Till
	Dol ls/lmy dol		Brec		Gyp		Shale		Siltysh
	New symbol		Cht		Igne		Shcol		Shlysiltst
	Dol ls/lmy dol		Clyst		Lmst		Shgy		Siltst
	New symbol		Blk sh/coal		Meta		Ss		Sandyls
	Anhy		Congl		Mrlst				

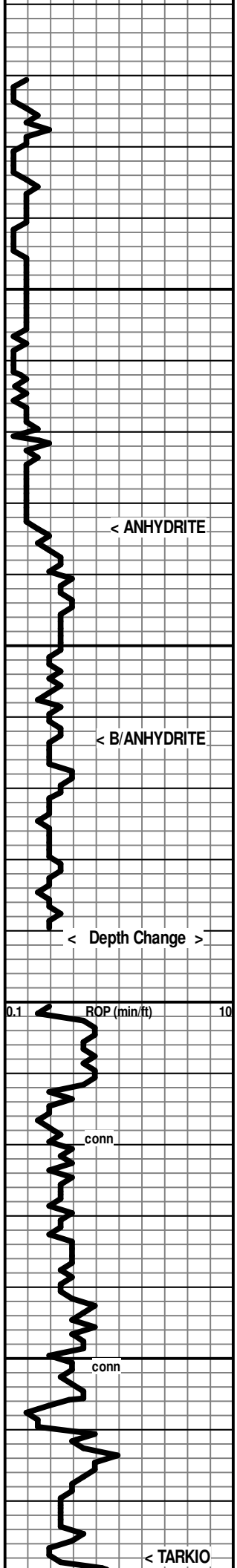
Accessories

MINERAL		Gyp	FOSSIL		Ostra		Siltstrg	
	Anhy	Hvymin		Algae		Pelec		Ssstrg
	Arggrn	Kaol		Amph		Pellet	TEXTURE	
	Arg	Marl		Belm		Pisolite		Boundst
	Bent	Minxl		Bioclst		Plant		Chalky
	Bit	Nodule		Brach		Strom		Cryxln
	Brecfrag	Phos		Bryozoa				Earthy
	Calc	Pyr		Cephal	STRINGER			Finexln
	Carb	Salt		Coral		Anhy		Grainst
	Chtdk	Sandy		Crin		Shale		Lithogr
	Chtlt	Silt		Echin		Bent		Microxln
	Dol	Sil		Fish		Coal		Mudst
	Feldspar	Sulphur		Foram		Dol		Packst
	Ferrpel	Tuff		Fossil		Gyp		Wackest
	Ferr			Gastro		Ls		
	Glau			Oolite		Mrst		

Other Symbols

OIL SHOW		Even		Dead	INTERVAL	
	Oil & gas show		Spotted		Gas	
	Gas show		Trace or questionable			Core
						Dst

ROP (min/ft) ROP (min/ft) ———		MD	Lithology	Geological Descriptions	Remarks
0.1	ROP (min/ft) 10	. 2500 .	Shows		
		. 50 .			



2600

< ANHYDRITE

2633 (+394)

< Bit Trip at 2634 Ft!

< B/ANHYDRITE

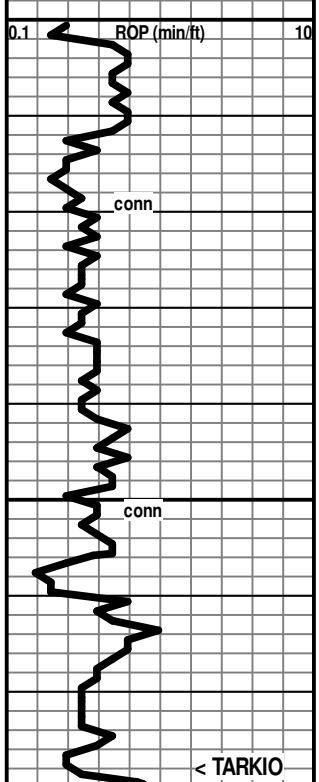
2663 (+394)

< Depth Change >

* Displace & Mup up @ 3301 Ft. (After losing partial returns and stuck temporarily at 3301 Ft.!)

Mud Check: Drlg @ 3322':
 Vis Wt WL PV YP
 50 8.6 7.2 17 16
 Chl Hd pH Solids
 2000 20 11.5 2.0

* Begin 10 ft. Samples and 1 ft. Drill Time!



3600

Ls cr, fn xln, dns to pr xln por, foss in pt; Some gy-grn shale

Ls wh-cr-tan, fn xln, silty text in pt, foss in pt, pr vis xln por, scatt fnt pp pores,

[No Odor, No fluor, Scatt spotty blk DO, NSFO]

Ls wh-cr-tan, fn xln, chalky in pt, pr xln por to dns in pt, foss; some gy-grnsh shale

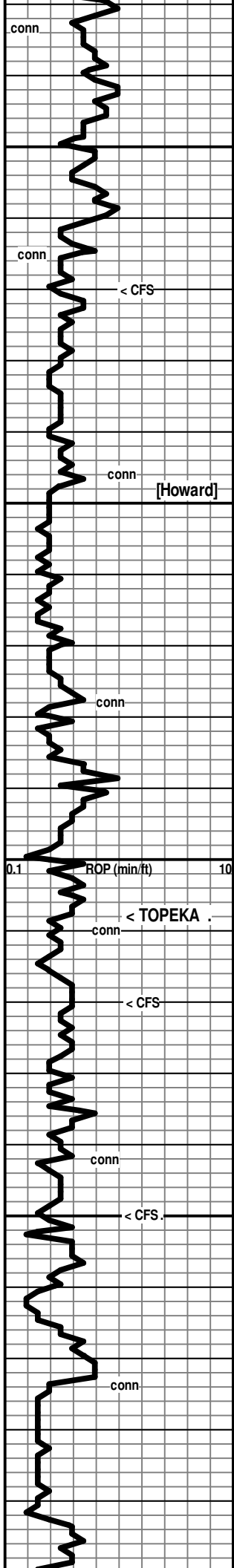
3650

Abund siltstone, wh-gy, calc in pt, shaley in pt; shale gy-grnsh

Abund Shale, gy-grn-red, some siltst as above, Ls wh-cr, fn xln, chalky to dns

< TARKIO

3678 (-651)



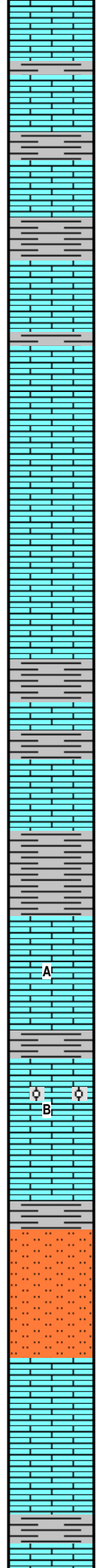
3700

3750

3800

3850

3900



3700' spl: 60% Sh gy-grn, some red, silty in pt, calc in pt; 40% Ls wh-gy, fn xln, silty in pt, dns

3710' spl: Mostly Ls wh-cr-gy, silty-grny text, pr vis xln por, chalky in pt, foss in pt

[3710' spl: No Odor, scatt V Dull Fluor, mod am't pcs with blk-dk brn spotty stn, Mostly blk resid/gilson stn, on crush-some DO drops, Rr dk micro-drops NVL oil to hvy dk FO]

3720' cfs: 75% Ls, wh-cr, fn xln, abund chalky, some vis pr xln por, foss in pt; [NSO] 25% shales

3740' spl: 75% Ls wh-cr, fn xln, abund pr xln por, some fr xln por, some chalky, foss to abund foss; 25% Sh mostly gy, some red

3750' spl: 85% Ls wh-cr, fn xln, abund pr xln por, some fr xln por, some chalky, foss to abund foss; 15% Sh mostly gy, some red

Ls wh-cr, fn xln, abund soft & chalky, some pr xln por, foss in pt

Ls wh-cr, fn xln, pr-fr xln por, some subchalky, foss to abund foss

Sh gy-grn-red, subwaxy text

Ls wh-cr-pl gy, fn xln, pr xln por to dns, foss in pt; some gy shale

Sh gy-grn

<----- 3808 (-781)

Ls cr-gy, fn xln, dns, foss in pt

A
Ls wh, fn xln, silty/sdy in pt, dns to pr vis xln por, foss in pt, some grn patches, chalky in pt

Sh gy-grn-red, subwaxy-subsilty-subearthy

B
Ls wh-cr, fn xln, pr-fr xln por, mealy text in pt, foss, ool in pt

Sh gy

Ls wh-cr, fn xln, chalky in pt, dns to pr xln por in pt, foss in pt

Silty Ls to Limey siltstone, wh-pl gy, dns, chalky in pt

Sh gy-grn-red, subwaxy to subearthy

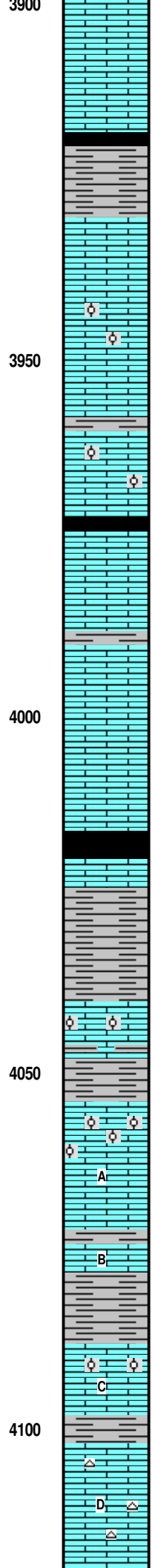
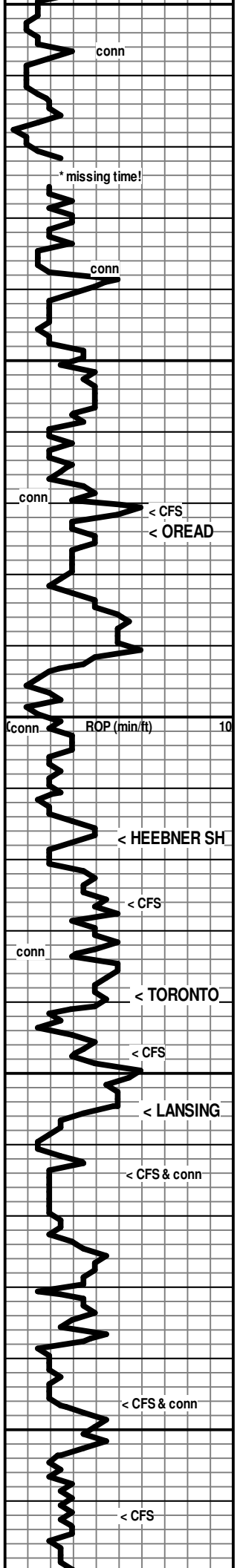
Ls wh-cr, fn xln, subchalky in pt, pr xln por in pt

Ls wh-cr, mostly chalky & soft, some dns & firm, chert: fresh, cr, foss-abund foss

7:00 AM, June 24, 2021

Mud Check: Drlg @ 3745':

Vis	Wt	WL	PV	YP
57	9.1	8.0	16	16
Chl	Hd	pH	Solids	
2200	40	11.0	5.4	



* Spls had depth errors through this interval!

60% Ls wh-cr, mostly chalky & soft, some dns & firm, chert: fresh, cr, foss-abund foss; 40% Shale red-gy-grm

3940' spl: Abund red-grn-gy shales, some Ls wh, fn xln, dns to pr xln por

Ls wh-cr-pl gy, fn xln, pr xln por in pt, fr xln por in pt, dns in pt, foss to abund foss in pt; with shales as above

Ls wh-cr, fn xln, pr-fr xln por in pt, foss & ool with scatt interool pores; some shales red-gy-grm

Ls wh-cr, fn xln, pr-fr xln por, with scatt pp pores, foss to finely ool

← 3974 (-947)

Ls wh, fn xln, pr xln por to dns, foss in pt, chalky in pt

Ls wh-cr, fn xln, pr xln por to dns, foss

Ls wh-cr, fn xln, pr to fr xln por, chalky in pt, foss

4020' spl: 99% Ls wh-cr, fn xln, chalky in pt, pr vis xln por, foss

← 4017 (-990)

Sh black, carb (abund in 4026' 20-min spl)

Ls cr, fn xln, dns, foss

Sh gy-grnish gy-grm, foss in pt

← 4039 (-1012)

Ls wh-cr, fn xln, subchalky in pt, pr-fr xln por in pt, Rr pp pores, foss in pt, ool in pt

Sh gy-grm

← 4055 (-1028)

Ls wh-cr, fn xln, pr-fr xln por in pt, scatt pp pores, ool in pt with scatt interool pores, foss, low% chalky

A

Ls wh-cr, fn xln, chalky in pt, pr xln por in pt with Rr scatt pp pores, foss

B

Ls wh-cr, fn xln, dns to pr xln por, foss

Sh mostly red, silty to earthy, some gy-grm (washes red)

Ls wh-cr, fn xln, abund chalky & soft to mushy, some dns & firm, Some pr vis xln por, foss in pt, Rr ool pcs; still abund red mushy shale in cfs

C

[Found 2 pcs with Tr of black Dead gilson/resid spots, No Odor, No fluor, No show of FO]

Sh gy-red-grm-grm, silty to earthy (washes red)

4100

D

Ls wh-cr-pl gy, vfn-fn xln, mostly dns, some pr xln por, foss in pt, chert: fresh, pl gy-cr, subtransl

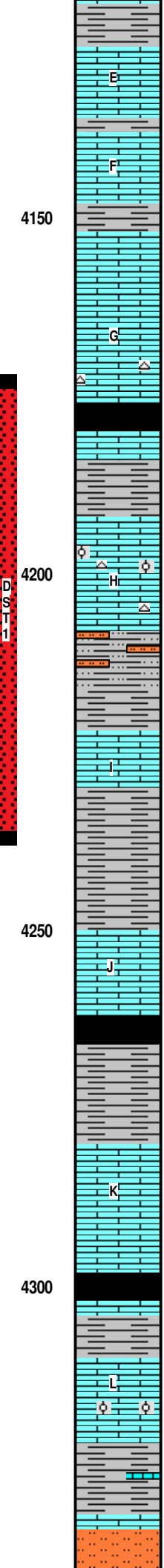
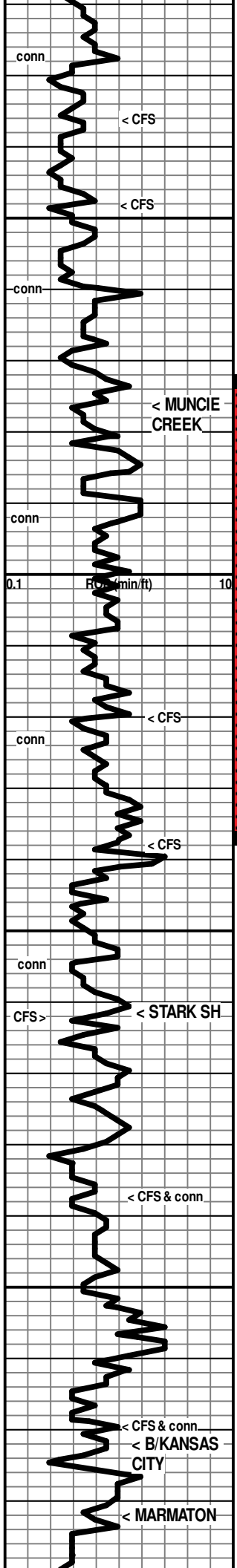
Ls wh-cr-pl gy, fn xln, grainy text in pt, chalky in pt, dns, foss in pt

Ls cr-pl gy, vfn xln, dns, sli foss in pt

7:00 AM, June 25, 2021

Mud Check: Drlg @ 4072':

Vis	Wt	WL	PV	YP
58	9.2	7.2	17	15
Chl	Hd	pH	Solids	
2000	80	11.0	5.9	



Sh gy-grn-blk-red

Ls wh-cr, fn xln, pr-fr xln por in pt, scatt pp pores, foss to abund foss

Ls wh-cr, fn xln, chalky in pt, pr-fr xln por in pt, foss

Sh gy

Ls wh-cr, fn xln, chalky in pt, pr xln por in pt, foss

Ls wh-cr, fn xln, chalky in pt, pr xln por in pt, foss

Ls wh-cr-tan, fn-vfn xln, chalky in pt, pr xln por in pt, foss, tr of fresh chert

← 4176 (-1149)

Sh black, carb (soe in 4190' spl, more in 4200' spl)

Sh gy-grnish, silty in pt

Ls wh-cr, fn xln, chalky in pt, pr xln por in patches & pcs, V Rr pcs with fr xln por, dns in pt, foss, some v fn ool, chert: fresh, wh-cr,subtr

Show Descr. →

Siltstone, wh-gy, calc in pt, shaley in pt

Sh mostly gy-dk gy

Ls wh-cr, fn xln, pr vis xln por, grainy text in pt, chaky inpt, foss

Show Descr. →

4250' spl: 90% Shales, red-gy-grn; 10% Ls cr, dns

Ls wh-cr, vfn-fn xln, mostly dns, some subchalky-chalky, foss

← 4261 (-1234)

Sh black, gy, red, grn

Ls wh-cr-tan, vfn-fn xln, dns with Rr scatt pp pores, scatt chalky patches & pcs, foss to abund foss

Ls cr-tan, fn xln, abund pr xln por, some fr xln por, foss to abund foss

Sh black, gy-red-grn

Ls cr-tan-gy, vfn-fn xln, dns, sli foss in pt

Ls wh-cr, frxln, pr-fr xln por in pt, chalky in pt, foss, ool in pt (washes white)

← 4322 (-1295)

Sh gy-black, grn-red, with Ls stringers

← 4332 (-1305)

Ls wh-cr, vfn-fn xln, dns, with siltstone, dirty, gy, calc in pt

DST #1: 4173-4238 (LKC H,I)
 Times: 15-30-10-out
 Initial Open: Wk Blow, Built to 1/4", died in 11 min.
 Final Open: No Blow
 Rec: 2' mud
 IHP: 2079 FHP: 2041
 IFP: 23-24 FFP: 23-22
 ISIP: 353 FSIP: NA
 BHT: 123°F

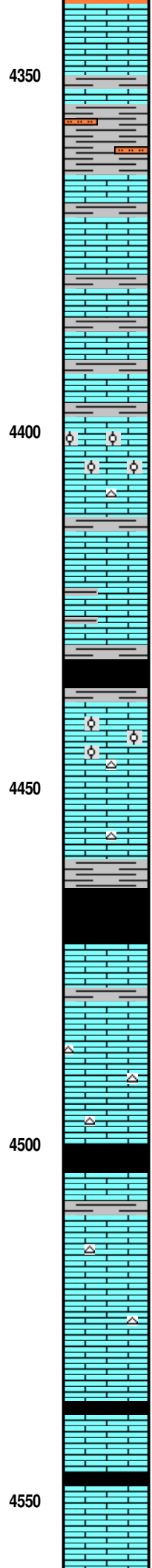
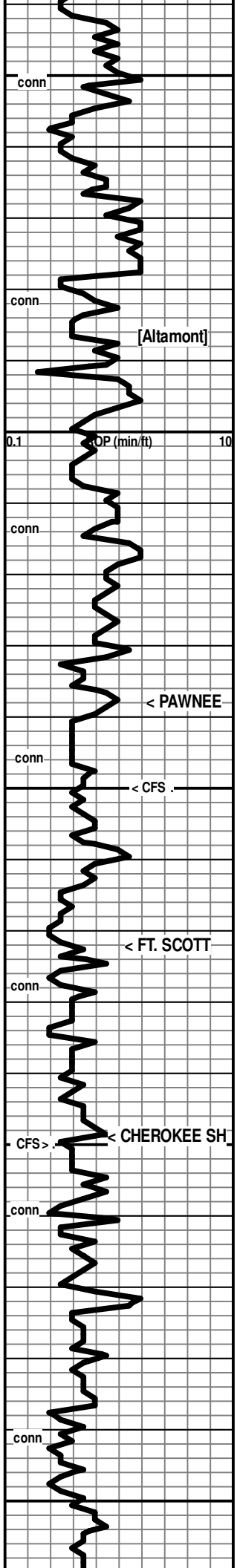
[4210' spl: No Odor, low % pcs per tray with dull spotty fluor, with spotty brn stn, with trace to sli shows of lt brn-ddk brn NVL oil & FO on crush, sli gassy]

[4230' spl: No Odor, abund dull spotty fluor, abund spotty brn-dk brn stn, abund Tr shows of NVL oil & FO on crush with some pcs with sli shows of FO on crush-v sli gassy]

7:00 AM, June 26, 2021

Mud Check: TIH/DST1 @ 4238':

Vis	Wt	WL	PV	YP
56	9.3	7.2	16	15
Chl	Hd	pH	Solids	
2400	10	11.0	6.5	



Ls wh-cr,vfn-fn xln, mostly dns & firm, some softer & chalky

Sh red-gy-grn, silty in pt

60% Ls wh-pl gy, vfn-fn xln, dns, subsilty to subchalky in pt; 40% Sh red-gy-grn

70% Ls wh-pl gy, vfn-fn xln, dns, subsilty to subchalky in pt; 30% Sh red-gy-grn, silty in pt

75% Ls wh-pl gy, vfn-fn xln, dns, subsilty to subchalky in pt; 25% Sh red-gy-grn, silty in pt

Ls wh, fnxln, pr-fr xln por, abund to packed foss & ool with mod interfoss/interool pores

Ls wh, fn xln, dns, chert: fresh, orange, subopaq

Ls cr-pl gy, vfn-fn xln, dns, subsilty text in pt, shaley in pt

Sh gy-black-grn, carb in pt

← 4438 (-1411)

Ls wh-cr, vfn-fn xln, mostly dns & firm, some softer and chalky, ool in pt (well cemented), some fresh transl chert

Ls wh-cr, vfn-fn xln, chalky in pt, pr xln por to dns in pt, Chert: fresh, wh, subopaq

Sh mostly black, carb, some dk gy (washes black)

← 4472 (-1445)

Ls wh-cr, fn xln, chalky in pt, dns in pt, Rr patches of pr xln por, foss

Sh gy-dk gy

Ls wh-cr-tan, fn xln, chalky in pt, mostly dns, Rr patches pr xln por, scatt calcite patches, foss in pt, chert: fresh, wh-gy, foss

← 4499 (-1472)

Sh black, carb

Ls wh-cr, fn xln, mostly dns & firm, some subchky to chalky, foss in pt

Ls wh-cr, fn xln, mostly dns, some subchalky-chalky, foss to abund foss, chert: fresh wh, subopac, foss

Ls wh-cr-tan, fn xln, mostly dns, some subchalky-chalky, foss to abund foss, chert: fresh wh, subopac, foss

Sh black, carb

Ls wh-cr-tan, fn xln, mostly dns, some subchalky-chalky, foss to abund foss

Sh black, carb

Ls wh-cr-tan, fn xln, mostly dns, subchalky-chalky in lesser pt, foss; with interbedded black shales

Mud Check: Drlg @ 4467':
 Vis Wt WL PV YP
 57 9.2 8.0 16 17
 Chl Hd pH Solids
 3000 40 10.5 5.8

7:00 AM, June 27, 2021

[Altamont]

< PAWNEE

< CFS

< FT. SCOTT

< CHEROKEE SH

conn

conn

conn

conn

conn

CFS >

conn

conn

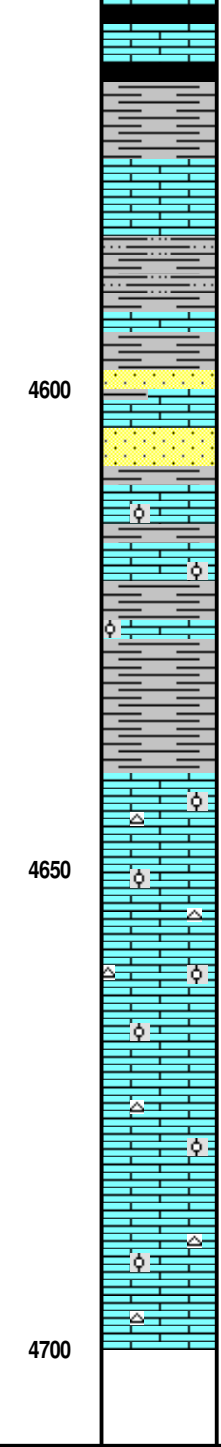
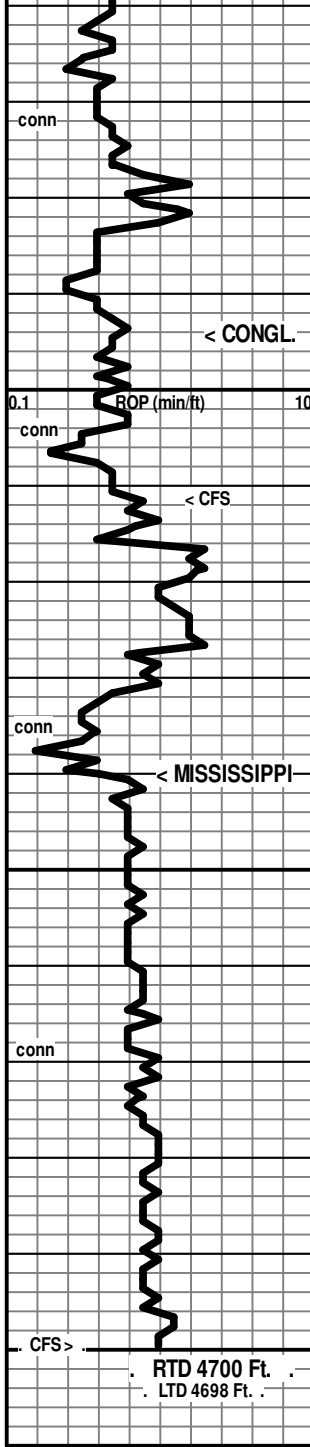
4350

4400

4450

4500

4550



Sh gy-grnish-black

4590' spl: 75% Shales red-gy-dk gy-grn, mushy to soft to firm, silty in pt to shaley siltstone; 25% Ls as above

<----- 4594 (-1567)

4600' spl: 75% Ls wh-cr-tan, fn xln, mostly dns, subchalky-chalky in lesser pt, foss; 25% with interbedded black shales

4611' 20-min spl: Abund Sh red-gy-dk-yell-grn, silty to sdy in pt; Sd glassy, fn gm clusters with a few loose md gms, subrd, gd sort, gd fri, fr-gd intergrmlr por in pt, shaley in pt; some dns wh Ls

4630' spl: 50% Ls wh-cr-gy, fn xln, mostly dns, some chalky, foss in pt, ool in pt; 50% Shales red-gr-gm-yell (washes red)

4640' spl: 50% Ls wh-cr-gy, fn xln, mostly dns, some chalky, foss in pt, ool in pt; 50% Shales red-gr-gm-yell (washes pale red)

<----- 4640 (-1613)

4650' spl: 50% Ls wh-cr-gy, fn xln, mostly dns, some chalky, foss in pt; 50% Shales red-gr-gm-yell (washes pale red)

4660' spl: 85% Ls wh-cr-tan, fn xln, chalky & soft to dns & firm with some pr xln por, foss to abund foss, ool in pt, Chert: fresh, opa, foss; 15% shales much as above

4670' spl: 85% Ls wh-cr-tan, fn xln, chalky & soft to dns & firm with some pr xln por, foss to abund foss, ool in pt, Chert: fresh, opa, foss; 15% shales much as above

Ls wh-cr-tan, fn xln, chalky & soft to dns & firm with some pr xln por, foss to abund foss, ool in pt, Chert: fresh, opa, foss

Ls wh-cr-tan, fn xln, chalky & soft to dns & firm with some pr xln por, foss to abund foss, ool in pt, Chert: fresh, opa, foss

Ls wh-cr-tan, fn xln, chalky & soft to dns & firm with some pr xln por, foss to abund foss, ool in pt, Chert: fresh, opa, foss

Mud Check: Short Trip @ 4700' RTD:

Vis	Wt	WL	PV	YP
58	9.3	8.8	14	16
Chl	Hd	pH	Solids	
2500	80	11.0	6.6	

RTD 4700 Ft. Reached at 5:50 AM, June 28, 2021!

RTD 4700 Ft.
LTD 4698 Ft.