

Form	ACO1 - Well Completion
Operator	Carmen Schmitt, Inc.
Well Name	KELLER 1-13
Doc ID	1714779

Tops

Name	Top	Datum
Stone Corral	1303	1068
Heebner Sh.	4254	-1883
Toronto LS.	4265	-1894
Douglas Ls.	4324	-1953
Lansing	4441	-2070
Muncie Creek	4596	-2225
Stark Shale	4722	-2351
Hushpuckney	4769	-2398
B/KC	4850	-2479
Marmaton	4863	-2492
Pawnee	4939	-2568
Ft. Scott	4990	-2619
Cherokee Sh	5012	-2641
Morrow Sh	5033	-2662
Mississippi	5059	-2688

Form	ACO1 - Well Completion
Operator	Carmen Schmitt, Inc.
Well Name	KELLER 1-13
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Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	688	class a	400	cc

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

Page: 1

INVOICE NUMBER:
C60802-IN

BILL TO:

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

LEASE: KELLER 1-13

DATE	ORDER	SALESMAN	ORDER DATE	PURCHASE ORDER	SPECIAL INSTRUCTIONS	
04/17/2023	60802		04/06/2023	KELLER 1-13	NET 30	
QUANTITY	U/M	ITEM NO./DESCRIPTION		D/C	PRICE	EXTENSION
		NEW WELL				
90.00	MI	MILEAGE PICKUP		0.00	4.00	360.00
90.00	MI	MILEAGE CEMENT PUMP TRUCK		0.00	6.00	540.00
1.00	EA	PUMP CHARGE SURFACE		0.00	1,150.00	1,150.00
400.00	SK	COMMON CEMENT		0.00	16.75	6,700.00
23.00	SK	CALCIUM CHLORIDE		0.00	42.00	966.00
1,000.00	LB	GILSONITE		0.00	0.80	800.00
1.00	EA	8 5/8" GUIDE SHOE		0.00	350.00	350.00
1.00	LB	8 5/8" BAFFLE		0.00	105.00	105.00
1.00	EA	8 5/8" WOOD PLUG		0.00	65.00	65.00
443.00	EA	BULK CHARGE		0.00	1.25	553.75
936.95	MI	BULK TRUCK - TON MILES		0.00	1.10	1,030.65
		7/10/43 20193.0113 BSP "Surface Cement" Well Ate				
REMIT TO: P.O. BOX 438 HAYSVILLE, KS 67060		COP		Net Invoice:		12,620.40
		FUEL SURCHARGE IS NOT TAXABLE AND IS ADDED TO MILEAGE, PUMP AND OR DELIVERY CHARGES ONLY.		KIOCO Sales Tax:		673.95
RECEIVED BY _____		NET 30 DAYS		Invoice Total:		13,294.35

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.

COPELAND

Acid & Cement



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

FIELD
ORDER

N^o C 60802

DATE 6-Apr 20 23

IS AUTHORIZED BY: CARMEN SCHMITT INC

(NAME OF CUSTOMER)

Address City State KS

TO TREAT WELL

AS FOLLOWS Lease KELLER Well No. 1-13 Customer Order No.

Sec. Twp.

Range 13-29S-20W County KIOWA State KS

CONDITIONS: As a part of the consideration hereof it is agreed that Copeland Acid is to service or treat at owner's risk, the hereinbefore mentioned well and is not to be held liable for any damage that may accrue in connection with said service or treatment. Copeland Acid Service has made no representation, expressed or implied, and no representations have been relied on, as to what may be the results or effect of the servicing or treating said well. The consideration of said service or treatment is payable. There will be no discount allowed subsequent to such date. 6% interest will be charged after 60 days. Total charges are subject to correction by our invoicing department in accordance with latest published price schedules.

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

Well Owner or Operator

Agent

CODE	QUANTITY	DESCRIPTION	UNIT COST	AMOUNT
20.0001	90	Mileage P.U.	\$4.00	\$360.00
20.0002	90	Mileage P.T.	\$6.00	\$540.00
20.0005	1	Pump Charge Surface	\$1,150.00	\$1,150.00
20.1001	400	Common Cement Sack	\$16.75	\$6,700.00
20.1012	23	Calcium Chloride per 50 lb.	\$42.00	\$966.00
20.1016	1000	Gilsonite per lb.	\$0.80	\$800.00
20.2038	1	8 5/8" Guide Shoe	\$350.00	\$350.00
20.2018	1	8 5/8" Baffle	\$105.00	\$105.00
20.202	1	8 5/8" Wood Plug	\$65.00	\$65.00
20.0011	443	Bulk Charge	\$1.25	\$553.75
20.0012	936.95	Bulk Truck Miles	\$1.10	\$1,030.65
		Process License Fee on Gallons		
		TOTAL BILLING		\$12,620.40

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

[illegible]



HURRICANE SERVICES INC

Remit To: Hurricane Services, Inc.
250 N. Water, Suite 200
Wichita, KS 67202
316-303-9515

Customer:

CARMEN SCHMITT INC
PO BOX 47
GREAT BEND, KS 67530-0047

Invoice Date: 4/19/2023
Invoice #: 0367953
Lease Name: Keller
Well #: 1-13
County: Kiowa, Ks
Job Number: WP4185
District: Pratt

Date/Description	HRS/QTY	Rate	Total
PTA	0.000	0.000	0.00
H-Plug	210.000	14.000	2,940.00
Light Eq Mileage	50.000	2.000	100.00
Heavy Eq Mileage	100.000	4.000	400.00
Ton Mileage	495.000	1.500	742.50
Cement Blending & Mixing	210.000	1.400	294.00
Depth Charge 1001'-2000'	1.000	1,500.000	1,500.00
Cement Data Acquisition	1.000	250.000	250.00
Service Supervisor	1.000	275.000	275.00

7/10/23
20193.0113
Well File
BCP Cement to Plus

Net Invoice	6,501.50
Sales Tax:	383.98
Total	6,885.48

TERMS: Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

SALES TAX: Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

WE APPRECIATE YOUR BUSINESS!

TERMS: Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1.25% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining favorable services.

flv: 15-2021/01/25
mplv: 385-2023/04/18



CEMENT TREATMENT REPORT

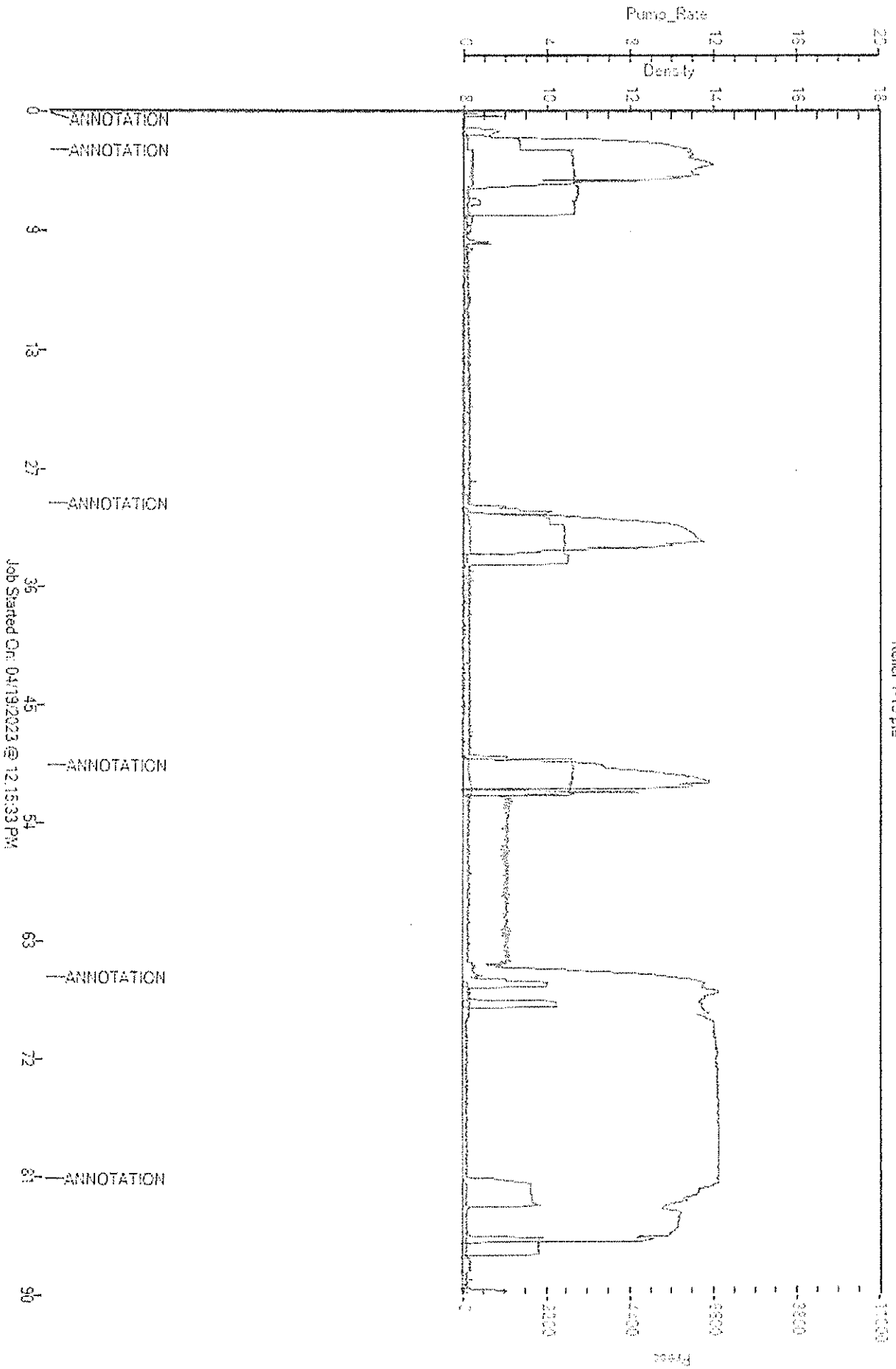
Customer:	Carmen Schmitt	Well:	Keller 1-13	Ticket:	wp 4185
City, State:	Mullinville Kansas	County:	Kiowa, Kansas	Date:	4/19/2023
Field Rep:	Lanny Saloga	S-T-R:	13-29s-20w	Service:	PTA

Downhole Information		Calculated Slurry - Lead		Calculated Slurry - Tail	
Hole Size:	7 7/8 in	Blend:	H-Plug	Blend:	
Hole Depth:	1320 ft	Weight:	13.7 ppg	Weight:	ppg
Casing Size:	in	Water / Sx:	8.4 gal / sx	Water / Sx:	gal / sx
Casing Depth:	ft	Yield:	1.43 ft ³ / sx	Yield:	ft ³ / sx
Tubing / Liner:	in	Annular Bbls / Ft.:	bbs / ft.	Annular Bbls / Ft.:	bbs / ft.
Depth:	ft	Depth:	ft	Depth:	ft
Tool / Packers:		Annular Volume:	0.0 bbls	Annular Volume:	0 bbls
Tool Depth:	ft	Excess:		Excess:	
Displacement:	12.0 bbls	Total Slurry:	53.4 bbls	Total Slurry:	0.0 bbls
		Total Sacks:	210 sx	Total Sacks:	0 sx

TIME	RATE	PSI	BBLs	TOTAL BBLs	REMARKS
12:55 PM			-	-	on location job and safety
1:00 PM				-	spot trucks and rig up
				-	
1:25 PM				-	1st plug 50 sacks at 1320
	5.0	250.0	3.0	3.0	fresh water
	5.0	250.0	12.7	15.7	mix 50 sacks cement
	5.0	250.0	12.0	27.7	displacement
1:55 PM				-	2nd plug 50 sacks at 720
	4.0	130.0	3.0	3.0	fresh water
	4.0	130.0	12.7	15.7	mix 50 sacks cement
	4.0	130.0	4.0		displacement
2:10 PM					3rd plug 40 sacks at 360
	5.0	130.0	3.0		fresh water
	5.0	130.0	10.0		mix 40 sacks cement
	5.0	130.0	1.5		displacement
2:30 PM	3.0	-	5.0		60 ft 20 sacks
	3.0	-	7.5		rat hole
	3.0	-	5.0		mouse hole

CREW		UNIT	SUMMARY		
Cementer:	M Brungardt	916	Average Rate	Average Pressure	Total Fluid
Pump Operator:	A Clifton	179/521	4.3 bpm	128 psi	79 bbls
Bulk #1:	Jose	182/634			
Bulk #2:					

Carmen Schmitt Keller 1-13 pie



Job Started On: 04/19/2023 @ 12:15:33 PM



DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc**

PO Box 47
Great Bend KS 67530+0047

ATTN: Brad Rine

Keller #1-13

13-29s-20w Kiowa KS

Start Date: 2023.04.17 @ 16:17:00

End Date: 2023.04.18 @ 00:31:22

Job Ticket #: 70800 DST #: 1

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

Printed: 2023.04.19 @ 08:08:38



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Carmen Schmitt Inc

PO Box 47
Great Bend KS 67530+0047

ATTN: Brad Rine

13-29s-20w Kiowa KS

Keller #1-13

Job Ticket: 70800

DST#: 1

Test Start: 2023.04.17 @ 16:17:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:47:57

Time Test Ended: 00:31:22

Test Type: Conventional Bottom Hole (Initial)

Tester: Spencer J Staab

Unit No: 84

Interval: 5022.00 ft (KB) To 5082.00 ft (KB) (TVD)

Total Depth: 5082.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2371.00 ft (KB)

2359.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 8875 Inside

Press@RunDepth: 176.86 psig @ 5026.00 ft (KB)

Start Date: 2023.04.17

End Date:

2023.04.18

Start Time: 16:17:01

End Time:

00:31:22

Capacity: psig

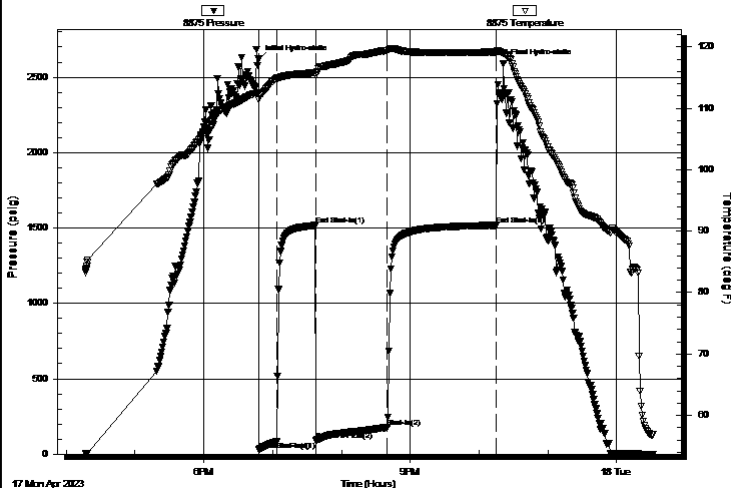
Last Calib.: 2023.04.18

Time On Btm: 2023.04.17 @ 18:47:52

Time Off Btm: 2023.04.17 @ 22:21:22

TEST COMMENT: 15-IF-Surface to 4"
30-ISI-No Return
60-FF-Surface to 10"
90-FSI-No Return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2615.38	112.60	Initial Hydro-static
1	28.40	111.45	Open To Flow (1)
16	83.91	114.86	Shut-In(1)
50	1517.16	115.77	End Shut-In(1)
50	89.04	115.35	Open To Flow (2)
113	176.86	119.42	Shut-In(2)
208	1518.20	119.19	End Shut-In(2)
214	2588.25	118.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
200.00	MCW 30%M 70%W	0.98
180.00	WCM 10%W 90%M	2.38
0.00	RW=.298@55F=29,000	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (MMcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Carmen Schmitt Inc
PO Box 47
Great Bend KS 67530+0047
ATTN: Brad Rine

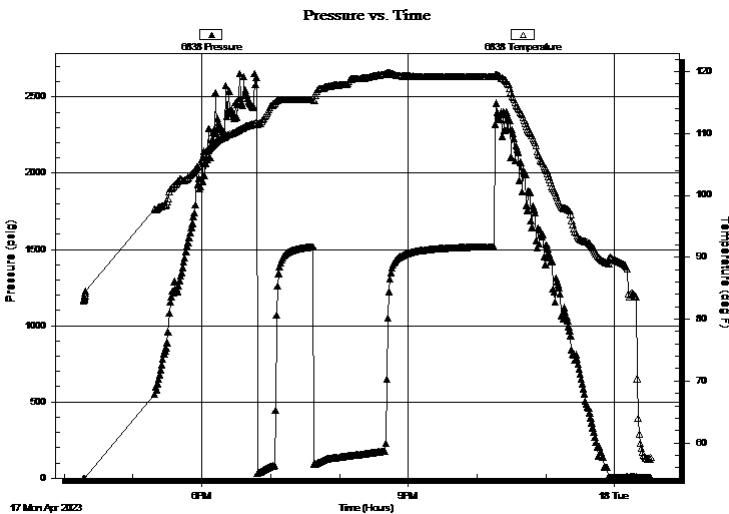
13-29s-20w Kiowa KS
Keller #1-13
Job Ticket: 70800 **DST#: 1**
Test Start: 2023.04.17 @ 16:17:00

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:47:57
Time Test Ended: 00:31:22
Interval: **5022.00 ft (KB) To 5082.00 ft (KB) (TVD)**
Total Depth: 5082.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Spencer J Staab
Unit No: 84
Reference Elevations: 2371.00 ft (KB)
2359.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 6838 **Inside**
Press@RunDepth: psig @ 5026.00 ft (KB) Capacity: psig
Start Date: 2023.04.17 End Date: 2023.04.18 Last Calib.: 2023.04.18
Start Time: 16:17:01 End Time: 00:32:02 Time On Btm:
Time Off Btm:

TEST COMMENT: 15-IF-Surface to 4"
30-ISI-No Return
60-FF-Surface to 10"
90-FSI-No Return



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
200.00	MCW 30%M 70%W	0.98
180.00	WCM 10%W 90%M	2.38
0.00	RW=.298@55F=29,000	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (MMcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt Inc

13-29s-20w Kiowa KS

PO Box 47
Great Bend KS 67530+0047

Keller #1-13

Job Ticket: 70800

DST#: 1

ATTN: Brad Rine

Test Start: 2023.04.17 @ 16:17:00

Tool Information

Drill Pipe:	Length: 4778.00 ft	Diameter: 3.82 inches	Volume: 67.73 bbl	Tool Weight:	2500.00 daN
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 daN
Drill Collar:	Length: 218.00 ft	Diameter: 2.25 inches	Volume: 1.07 bbl	Weight to Pull Loose:	93000.00 daN
		Total Volume:	- bbl	Tool Chased	ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial	87000.00 daN
Depth to Top Packer:	5022.00 ft			Final	88000.00 daN
Depth to Bottom Packer:	ft				
Interval between Packers:	60.00 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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Change Over Sub	1.00			4991.00	
Shut In Tool	5.00			4996.00	
Hydraulic tool	5.00			5001.00	
Jars	5.00			5006.00	
Gap Sub	4.00			5010.00	
Safety Joint	3.00			5013.00	
Packer	5.00			5018.00	32.00 Bottom Of Top Packer
Packer	4.00			5022.00	
Stubb	1.00			5023.00	
Perforations	2.00			5025.00	
Change Over Sub	1.00			5026.00	
Recorder	0.00	6838	Inside	5026.00	
Recorder	0.00	8875	Inside	5026.00	
Drill Pipe	32.00			5058.00	
Change Over Sub	1.00			5059.00	
Perforations	20.00			5079.00	
Bullnose	3.00			5082.00	60.00 Bottom Packers & Anchor
Total Tool Length:	92.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt Inc

13-29s-20w Kiowa KS

PO Box 47
Great Bend KS 67530+0047

Keller #1-13

Job Ticket: 70800

DST#: 1

ATTN: Brad Rine

Test Start: 2023.04.17 @ 16:17:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 63.00 sec/qt

Water Loss: 9.59 in³

Resistivity: ohm.m

Salinity: 7200.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity: 29000 ppm

deg API

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
200.00	MCW 30%M 70%W	0.984
180.00	WCM 10%W 90%M	2.385
0.00	RW=.298@55F=29,000	0.000

Total Length: 380.00 ft

Total Volume: 3.369 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 3#LCM

RW=.298@55F

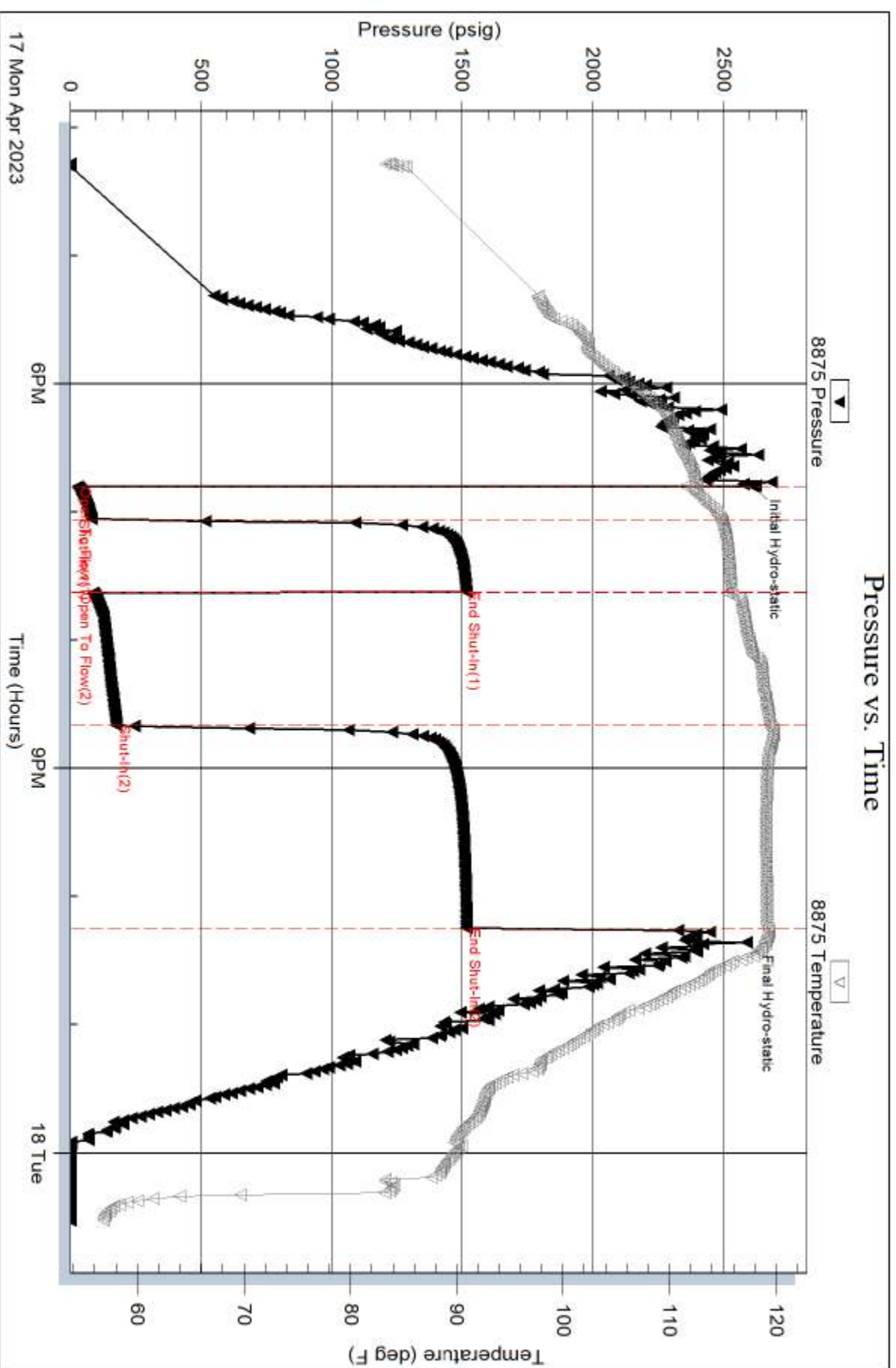
Serial #: 8875

Inside

Carmen Schmitt Inc

Keller #1-13

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 70800

Printed: 2023.04.19 @ 08:08:39

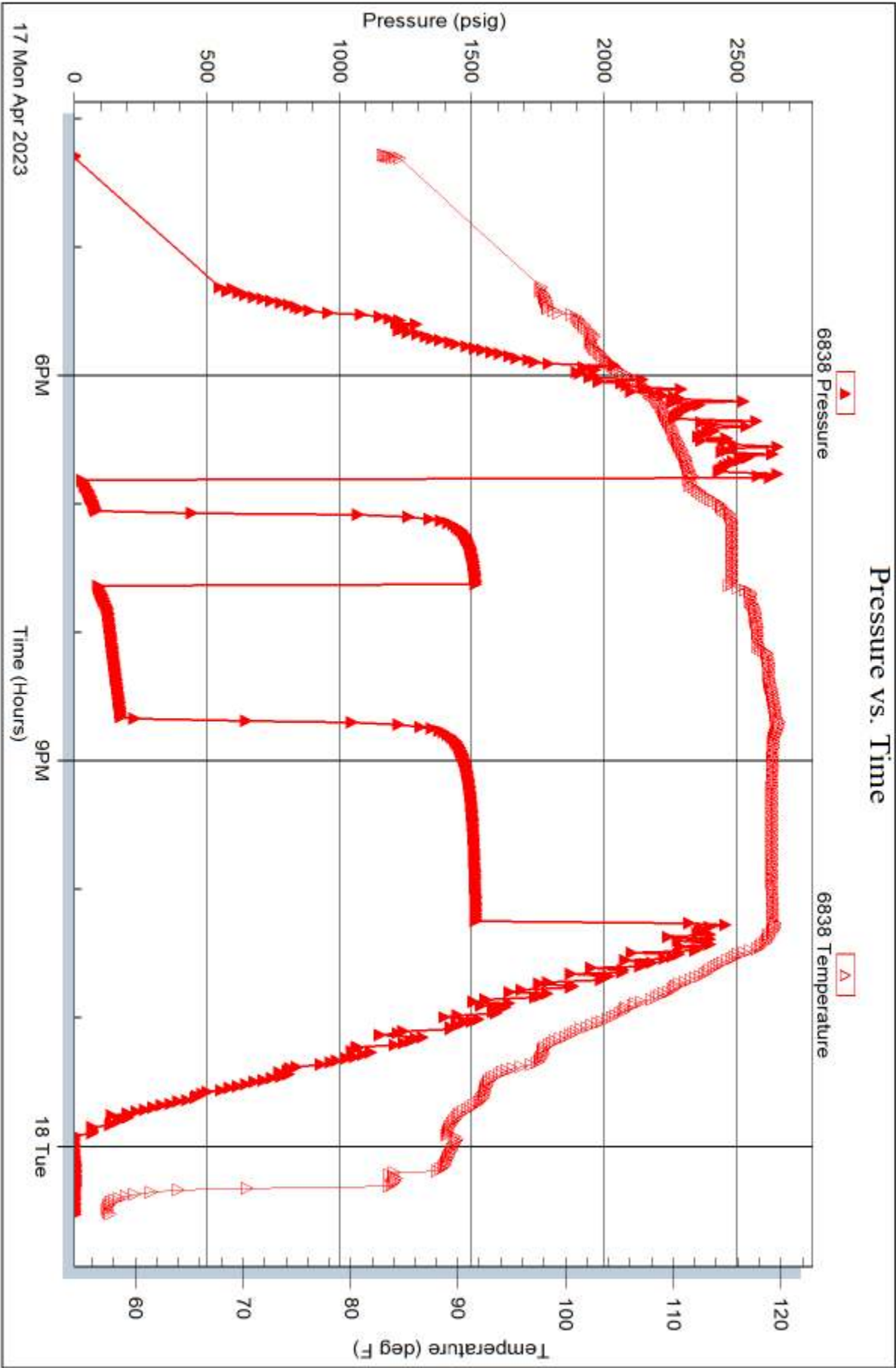
Serial #: 6838

Inside

Carmen Schnitt Inc

Keller #1-13

DST Test Number: 1





**TRILOBITE
TESTING INC.**

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **70800**

Well Name & No. Keller #1-13 Test No. 1 Date 04/17/2023
 Company Carmen Schmitt, Inc Elevation 2371 KB 2359 GL
 Address PO Box 47 Great Bend KS 67530+0047
 Co. Rep / Geo Brad Rine Rig Sterling #4
 Location: Sec. 13 Twp 29S Rge. 20W Co. Kiowa State Ks

Interval Tested 5022'-5082' Zone Tested Mississippi
 Anchor Length 60' Drill Pipe Run 4778' Mud Wt. 9.3
 Top Packer Depth 5017' Drill Collars Run 218' Vis 63
 Bottom Packer Depth 5022' Wt. Pipe Run - WL 9.6
 Total Depth 5082' Chlorides 7200 ppm System LCM 3#

Blow Description 14-Surface to 4"
15-No Return
77-Surface to 10"
78-No Return

Rec <u>200'</u>	Feet of <u>MCW</u>	%gas	%oil <u>70</u>	%water <u>30</u>	%mud
Rec <u>180'</u>	Feet of <u>WCM</u>	%gas	%oil <u>10</u>	%water <u>90</u>	%mud
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 380' BHT 119° Gravity 1.028 API RW 278 @ 55 °F Chlorides 29,000 ppm
 Initial Hydrostatic 2615 ☒ Test 2150 ☐ Ruined Shale Packer
 Initial Flow 28 to 83 ☒ Jars 300 ☐ Ruined Packer
 Initial Shut-In 1517 ☐ Circ Sub ☒ Hotel x2
 Final Flow 89 to 176 ☐ Hourly Standby ☒ EM Tool Successful -175
 Final Shut-In 1518 ☒ Mileage 100 RT 104rt 182 ☐ Accessibility
 Final Hydrostatic 2588 ☐ Sampler 3427 59.50 ☐ Gas Sample
☐ Straddle ☐ Oversized Hole

T-On Location 13:55 ☒ Shale Packer 250 ☐ Sub Total 800 - 175
 Initial Flow 15 T-Started 16:17 ☐ Extra Packer ☐ Total 3566.50
 Initial Shut-In 30 T-Open 18:47 ☐ Extra Recorder ☒ Tool Loaded 04/19 @ 04:30
 Final Flow 60 T-Pulled 22:02 ☒ Day Standby 27hrs 1d 4h ☐ MP/DST Disc't
 Final Shut-In 90 T-Out 00:31 04/18

Comments Stayed in Greensburg 2 nights

Approved By _____ Our Representative [Signature]

TriLOBITE Testing Inc. shall not be liable for damage of any kind of 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: Keller #1-13 - Carmen Schmitt, Inc.
API: 15-097-21871-00-00
Location: NW-NE-SW-NE, Section 13-29S-20W
License Number: KCC #6569
Spud Date: April 05, 2023
Surface Coordinates: 1580'FNL & 1700'FEL,
of Section
Bottom Hole Vertical Wellbore
Coordinates:
Ground Elevation (ft): 2360 Ft. **K.B. Elevation (ft):** 2371 Ft.
Logged Interval (ft): 4100 Ft. **To:** 5200 Ft. **Total Depth (ft):** RTD 5200 Ft. LTD 5201 Ft.
Formation: Mississippian at Total Depth
Type of Drilling Fluid: Chemical

Region: Kiowa Co., Kansas
Drilling Completed: April 19, 2023
Field: NA
Results: D&A

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, Ks Lic #204, AAPG Cert #2647
Address: 100 South Main, Suite #320A
Wichita, Kansas 67202

Remarks

Based on sample observations, gas detector response, drill stem test results, and electric log evaluation; it was the decision of the Operator to plug and abandon the "Keller #1-13" on April 19, 2023.

Respectfully,
M. Bradford Rine, geologist

Drilling Information

Rig: Sterling Drlg #4
Pump: Ideco MM-700 6x16
Drawworks: Unit U-15
Collars: 588' 2-1/4" x 6-1/4"
Drillpipe: 4-1/2" 16.6# XH
Toolpusher: Lanny Saloga

Mud: Mudco (Justin Whiting)
Gas Detector: Sterling Drlg (Tooke DAQ System)
Drill Stem Tests: Trilobite (Spencer Staab)
Logs: Midwest (Dan Schmidt)
Water: Water Well NE of Location (Kinetic Trans)
Conductor: None

Company Representatives:
Office: Carmen Schmitt
Field: None

Daily Drilling Status

Date:	Operations:
04-04-23	MIRT @ 0'
04-05-23	RU, Spud @ 0'
04-06-23	Drilling @ 600'
04-07-23	Rig Maintenance @ 854'
04-08-23	Rig Down for Easter @ 854'
04-09-23	Rig Down for Easter @ 854'
04-10-23	Prepare to Drill Out @ 854'
04-11-23	Drilling @ 2008'
04-12-23	Drilling @ 2938'
04-13-23	Drilling @ 3528'
04-14-23	Drilling @ 4140'
04-15-23	Drilling @ 4504'
04-16-23	Drilling @ 4799'
04-17-23	Drilling @ 5065'
04-18-23	Down for Repairs, Working on Pump @ 5082'
04-19-23	Laying Down Drill Pipe, Prepare to Plug @ 5200'

Plugging completed at 3:00 PM, April 19, 2023.

Casing Record, Bit Record, Deviation Surveys, Etc

Conductor: None

Surface: Ran 16 jts 8-5/8" 23# new Casing, set @ 688'. (Copeland) Cement with lead 200sx Class A-3%CC, 5# Gilsonite; tailed with 200sx Class A, 3%CC. Plug Down at 4:15 PM, on April 06, 20-23. Cement did Circulate.

Production: (Hurricane) Plugged well with a total of 210 Sks. Cement blend: 60/40 Poz, 4% Gel. Plugged as follows: 1st plug at 1320' w/ 50 Sks, 2nd Plug at 720' w/ 50 Sks, 3rd Plug at 360' w/ 40 Sks, 4th Plug at 60' w/ 20 Sks. Plugged RH w/ 30 Sks and MH w/ 20 Sks. Job completed at 3:00 PM on April 19, 2023.

Bits:

No.	Size	Make	Model	Depth In	Depth Out	Hours
1	12-1/4	JZ	HA417rr	0	854	11.25
2	7-7/8	TRX	PL516	917'	3051	30.25
3	7-7/8	Orville	W516	3051	4102	21.25
4	7-7/8	JZ	HA20	4102	5200	66.50

Deviation Surveys:

Survey	Depth	Survey	Depth
1.00*	854'	0.30*	4102'
0.40*	1968'	0.20*	4835'
1.10*	2924'	0.50*	5058'
0.80*	3497'		

Pipe Straps:

Difference: **Depth:**
1.18' Short 4102'

Mud:

Displace and Mudup @ 3497'

Misc. Events:

Lost 80 bbls @ 2764' (mixed hulls to 3# drill ahead/full returns).

Instructed Rig to CFS @ 4630', I noticed later they were still drilling, so I got them stopped at 4638' to CFS.

	Results:	D&A		(Well A)		(Well B)			
	Carmen Schmitt, Inc.			J. Mark Richardson		Charter Production			
	Keller #1-13			Stewart "A" #1		Lowe Trust #1			
	1580'FNL & 1700'FEL			530'FWL & 330' FEL		660'FNL & 660'FWL			
	Sec. 13-29S-20W			Sec. 13-29S-20W		Sec. 24-29S-20W			
	KB	2371		KB	2364	KB	2386	Well A	Well B
Formations	Sample	E-Log	Datum	E-Log	Datum	Sample	Datum	Comparison(s)	
Anhydrite	1282	1303	1068	1295	1069	NA	NA	-1	NA
B/Anhydrite	1291	1322	1049	1313	1051	NA	NA	-2	NA
Heebner Sh.	4252	4254	-1883	4233	-1869	4292	-1906	-14	23
Toronto	4264	4265	-1894	4248	-1884	4313	-1927	-10	33
Douglas Ls.	4322	4324	-1953	4305	-1941	4364	-1978	-12	25
Brown Lime	4431	4430	-2059	4410	-2046	4467	-2081	-13	22
Lansing	4444	4441	-2070	4424	-2060	4480	-2094	-10	24
Muncie Creek Sh.	4598	4596	-2225	4578	-2214	4634	-2248	-11	23
Stark Sh.	4724	4722	-2351	4706	-2342	4774	-2388	-9	37
Hushpuckney Sh.	4769	4769	-2398	4744	-2380	4812	-2426	-18	28
B/Kansas City	4849	4850	-2479	4829	-2465	4900	-2514	-14	35
Marmaton	4864	4863	-2492	4840	-2476	4913	-2527	-16	35
Pawnee	4938	4939	-2568	4917	-2553	4988	-2602	-15	34
Ft. Scott	4986	4990	-2619	4965	-2601	5040	-2654	-18	35
Cherokee Sh.	5012	5012	-2641	4990	-2626	5064	-2678	-15	37
Morrow Sh.	5036	5033	-2662	5014	-2650	5089	-2703	-12	41
Morrow Sd.	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mississippian	5055	5059	-2688	5040	-2676	5106	-2720	-12	32
Total Depth	5200	5201	-2830	5057	-2693	5221	-2835	-137	5



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Carmen Schmitt Inc

PO BOX 47
Great Bend KS 67530+0047

ATTN: Brad Rine

13-29s-20w Kiowa KS

Keller #1-13

Job Ticket: 70800

DST#: 1

Test Start: 2023.04.17 @ 16:17:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:47:57

Time Test Ended: 00:31:22

Test Type: Conventional Bottom Hole (Initial)

Tester: Spencer J Staab

Unit No: 84

Interval: **5022.00 ft (KB) To 5082.00 ft (KB) (TVD)**

Total Depth: 5082.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2371.00 ft (KB)

2359.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 8875

Inside

Press@RunDepth: 176.86 psig @ 5026.00 ft (KB)

Start Date: 2023.04.17

End Date:

2023.04.18

Capacity: psig

Last Calib.: 2023.04.18

Start Time: 16:17:00

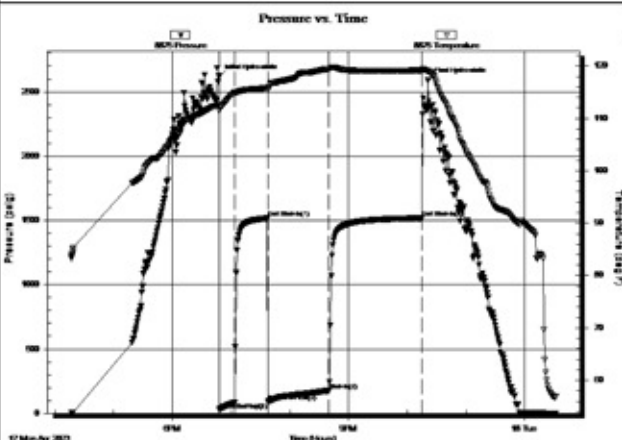
End Time:

00:31:22

Time On Btm: 2023.04.17 @ 18:47:52

Time Off Btm: 2023.04.17 @ 22:21:22

TEST COMMENT: 15-IF-Surface to 4"
30-ISI-No Return
60-FF-Surface to 10"
90-FSI-No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2615.38	112.60	Initial Hydro-static
1	28.40	111.45	Open To Flow (1)
16	83.91	114.86	Shut-In(1)
50	1517.16	115.77	End Shut-In(1)
50	89.04	115.35	Open To Flow (2)
113	176.86	119.42	Shut-In(2)
208	1518.20	119.19	End Shut-In(2)
214	2588.25	118.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
200.00	MCW 30%M 70%W	0.98
180.00	WCM 10%W 90%M	2.38
0.00	RW=.298@55F=29,000	0.00

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (MMcf/d)
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ROCK TYPES

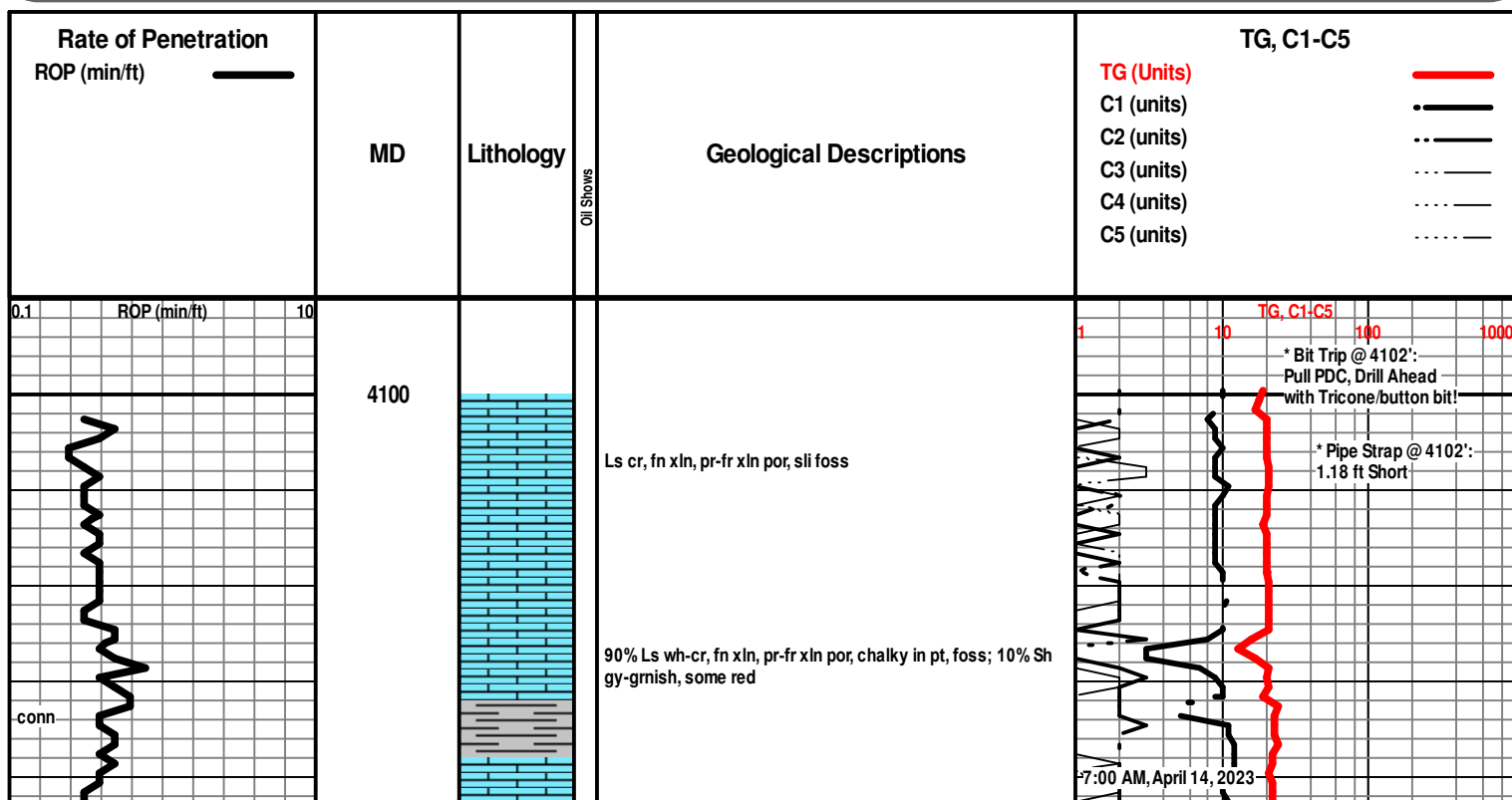
	dol ls limey		Cht		Igne		Shcol		Shlysiltst
	Dolom ls limey		Clyst		Lmst		Shgy		Siltysh
	New symbol		Coal/carb. shale		Meta		Siltst		
	Anhy		Congl		Mrst		Ss		
	Bent		Dol		Salt		Till		Siltysh
	Brec		Gyp		Shale				

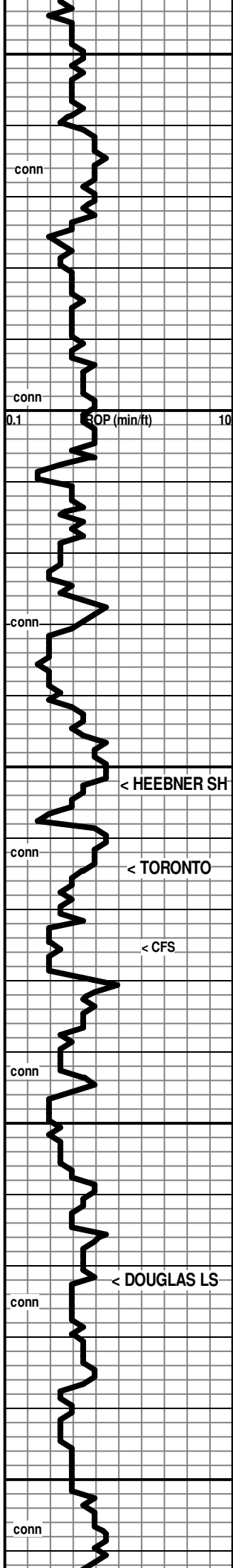
ACCESSORIES

MINERAL		FOSSIL		STRINGER		TEXTURE	
	Anhy		Gyp		Anhy		Boundst
	Arggrn		Hvymin		Shale		Chalky
	Arg		Kaol		Bent		Cryxln
	Bent		Marl		Coal/black shale		Earthy
	Bit		Minxl		Dol		Finexln
	Brecfrag		Nodule		Gyp		Grainst
	Calc		Phos		Ls		Lithogr
	Carb		Pyr		Mrst		Microxln
	Chtdk		Salt				Mudst
	Chtlit		Sandy				Packst
	Dol		Silt				Wackest
	Feldspar		Sil				
	Ferrpel		Sulphur				
	Ferr		Tuff				
	Glau						

OTHER SYMBOLS

POROSITY		ROUNDING		EVENT	
	Earthy		Rounded		Even
	Fenest		Subrnd		Spotted
	Fracture		Subang		Questionable/tracked
	Inter		Angular		Dead
	Moldic				
	Organic				
	Pinpoint				





4150

4200

4250

4300

4350

90% Ls cr-tan, fn xln, fr xln por in pt with scatt vugs foss;
10% Sh gy-grmish

85% Ls cr, fn xln, pr-fr xln por, foss, tr of chert: fresh, cr,
opaq; 15% Sh gy-dk gy-blk, carb in pt

95% Ls sh-cr, fn xln, chalky in pt, pr xln por in pt, foss, chert:
fresh, cr-gy; 05% Sh gy-blk

[4200' spl: No Odor, No fluor, few pcs with spots
of brn flakey/dead stn, NSFO, NSG]

98% Ls cr, fn xln, pr xln por, foss, few pcs chert; 02% dk
shales

[No Odor, Rr patches of dull flour, NSO, NSG]

95% Ls cr, fn xln, pr-fr xln por with scatt sm vugs & pp pores,
foss; 05% Sh dk gy-blk

85% Ls cr, fn xln, dns to pr-fr xln por, foss; 15% Sh gy-dk
gy-black, carb in pt

95% Ls cr, fn xln, dns to pr-fr xln por, foss; 05% Sh black,
carb
*(Samples should contain much more shale. Are the shale
cuttings possibly flowing over top of sample box?)

← 4252 (-1881)
Sh gy-dk gy-black, carb

← 4264 (-1893)
95% Ls cr, fn xln, pr-fr xln por in pt, dns in pt, foss, some ool;
05% Sh gy-dk gy-black, carb in pt
[No Odor, No fluor, NSO, NSG in spls]

Ls wh-cr, fn xln, chalky in pt, pr-fr xln por in pt, foss
[No Odor, No fluor, NSO, NSG in spls]
Ls wh-cr, fn xln, chalky in pt, pr-fr xln por in pt, foss

85% Ls cr, fn xln, pr vis xln por, some subchalky, foss, shaley
in pt; 15% Sh gy-grmish-blk

85% Ls cr, fn xln, pr vis xln por, some subchalky, foss, shaley
in pt; 15% Sh gy-grmish-blk

85% Ls cr, fn xln, pr vis xln por, some subchalky, some
dnsfoss, shaley in pt; 15% Sh gy-grmish-blk
← 4322 (-1951)

4340' spl: 85% Ls cr, fn xln, pr vis xln por, some subchalky,
some dns, foss, shaley in pt; 15% Sh gy-grmish-blk

4360' spl: 85% Ls cr, fn xln, pr vis xln por, some subchalky,
foss, shaley in pt; 15% Sh gy-grmish-blk

4380' spl: 85% Ls cr, fn xln, pr vis xln por, some subchalky,
foss, shaley in pt; 15% Sh gy-grmish-blk

Mud Check, Drig @ 4174':

Vis	Wt	WL	PV	YP
62	9.0	10.8	16	17
Chl	Hd	pH	LCM	Sol
5900	02	9.0	3	4.7

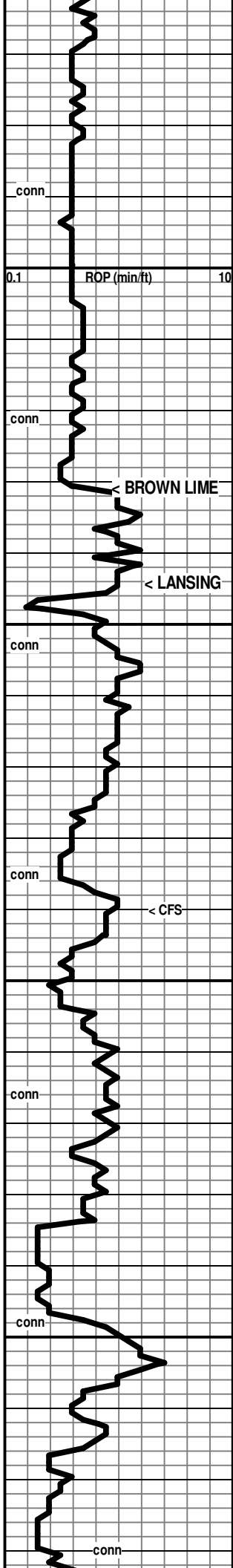
Shale Gas
25u incr

Sh Gas
10u incr

Poss. Sli Gas Show
TG 20u incr

Poss V Sli Gas Show
or Recycle?
TG 10u incr

Work on Drilling
Line!

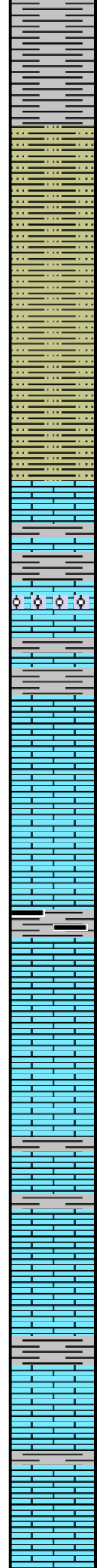


4400

4450

4500

4550



*(Samples should contain much more shale. Are the shale cuttings possibly flowing over top of sample box?)

4400' spl: 85% Ls cr, fn xln, pr vis xln por-dns, some subchalky, foss, shaley in pt; 15% Sh gy-gmish, silty in pt

4420' spl: 75% Ls cr, fn xln, pr vis xln por-dns, some subchalky, foss, shaley in pt; 25% Sh gy-gmish, silty in pt

4440' spl: 75% Ls cr, fn xln, pr vis xln por-dns, some subchalky, foss, shaley in pt; 25% Sh gy-gmish, silty in pt

← 4431 (-2060)
Ls cr-tan, fn xln, dns

Sh gy, silty/mic. text
← 4444 (-2073)
Ls cr-tan, fn xln, pr-fr xln por in pt, oom

Ls cr-tan, fn xln, dns to pr xln por, foss inpt

Sh gy-gmish-blk

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

Ls wh-cr, fn xln, pr-fr xln por in pt, scatt small vugs, foss

Sh gy-black, carb in pt

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

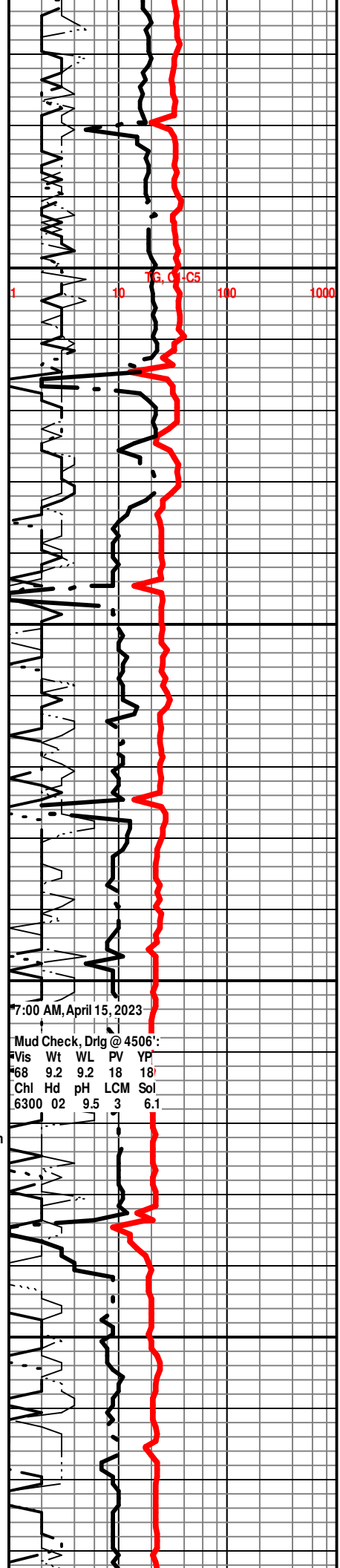
Ls wh-cr-tan-brn, fn xln, mostly dns, some chalky, some pr xln por, foss; Sh gy-dk gy-gmish

Ls cr, fn xln, mostly pr vis xln por, some fr xln por, subchalky in pt, foss

Sh gy-dk gy, silty in pt

Ls cr-gy, fnxln, some pr xln por, some fr xln por, dns in pt, foss-abund foss

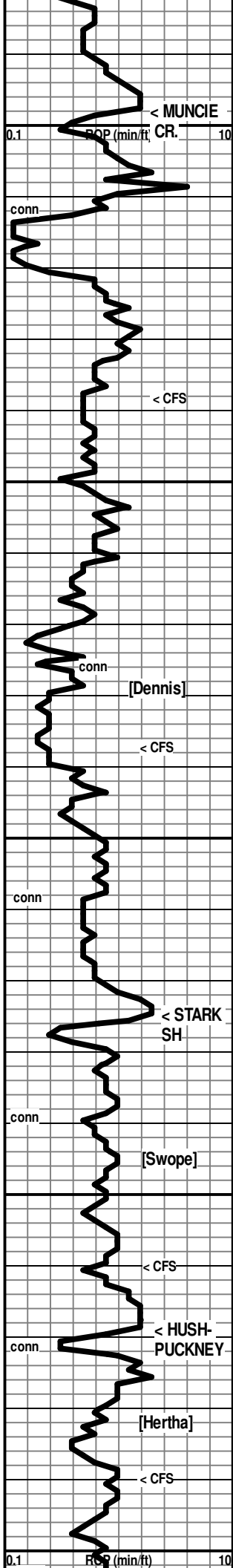
Ls cr-gy, fnxln, some pr-fr xln por, dns in pt, foss-abund foss



7:00 AM, April 15, 2023

Mud Check, Drlg @ 4506':

Vis	Wt	WL	PV	YP
68	9.2	9.2	18	18
Chl	Hd	pH	LCM	Sol
6300	02	9.5	3	6.1



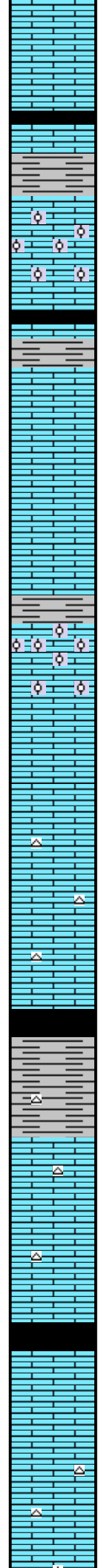
4600

4650

4700

4750

4800



Ls cr-gy, fn xln, dns, foss

← 4598 (-2227)

Sh dk gy-black, carb in pt

Sh gy

Ls cr-tan, fn xln, pr-fr xln por in pt, ool & oom in pt with fr oom por
[No Odor, Rr pcs with dull fluor, NSO, NSG in spls, * see Trace Gas kick]

Sh black, carb

Sh gy

Ls cr-tan, fn xln, pr vis xln por, foss

Ls wh-cr-tan, fn xln, subchalky in pt, pr xln por in pt, dns in pt, a few scatt vugs, foss

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

Sh gy

Ls cr-tan-gy, fn xln, pr-fr xln por, ool & oom

Ls cr-tan, fn xln, pr-fr xln por, some sucrl/dolom text, some ool to oom (from above?)
[No odor, NSO, NSG, Rr pcs with dull fluor-possibly dolom fluor?]

Ls cr-tan, fn xln, dns to pr xln por, foss in pt, Chert: fresh,gy-tan

Ls cr-tan, fn xln, dns to pr xln por, foss in pt, Chert: fresh,gy-tan

← 4724 (-2353)

Sh black, carb

Ls wh-cr-tan, vfn-fn xln, mostly dns & firm, some softer & subchalky, sli foss in pt, trace of gy foss fresh chert

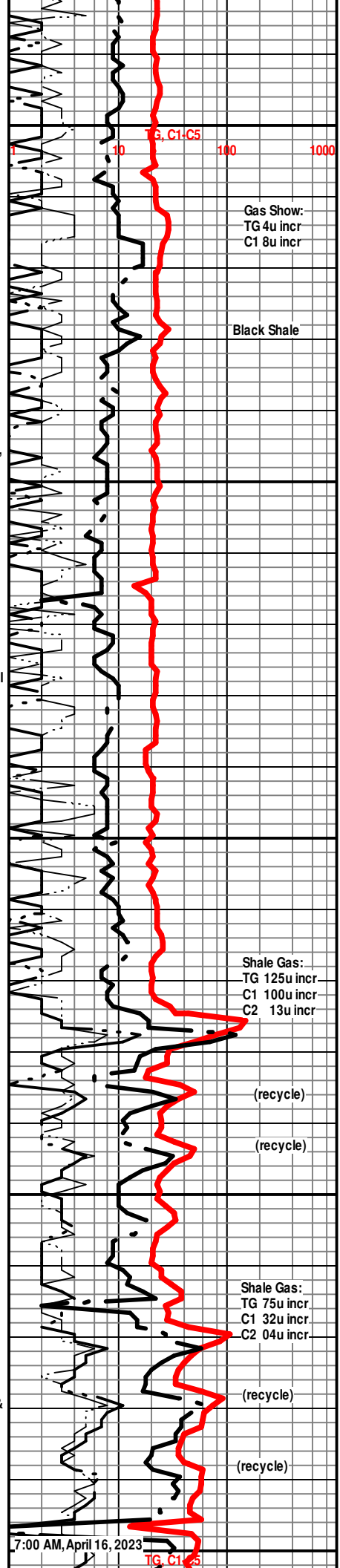
Ls wh-cr-tan, vfn-fn xln, mostly dns & firm, some softer & subchalky, sli foss in pt, trace of gy foss fresh chert

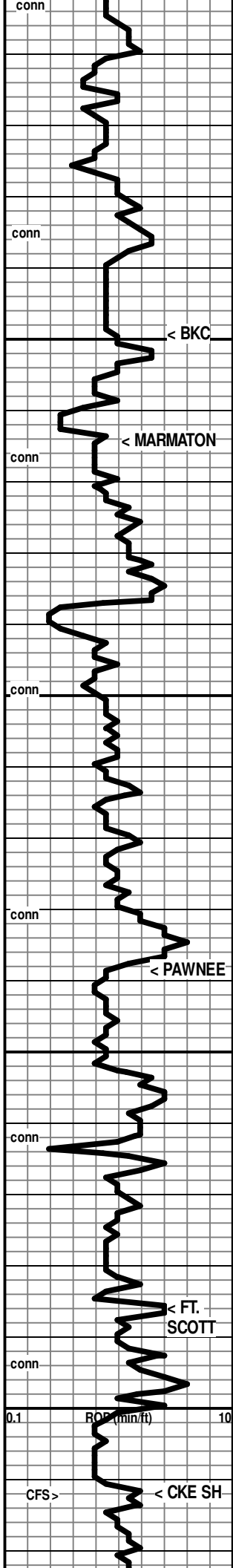
← 4769 (-2398)

Sh black, carb

Ls wh-cr-tan-brn,vfn-fn xln, mostly dns & hard, some softer & subchalky, some pr xln por, foss in pt

Ls cr, vfn-fn xln, dns, cherty





4850

4900

4950

5000



Sh black, carb

Ls cr-tan-brn-gy, vfn-fn xln, dns, foss, cherty

Ls cr-tan-brn-dk gy, vfn xln, dns, sli foss in pt, fresh chert; minor % Shale gy-black

← 4849 (-2478)

Ls cr-tan, vfn xln, dns with some chalky edges; Sh gy-black, carb in pt

← 4864 (-2493)

Ls cr-tan-gy, vfn xln, dns, foss in pt, Chert, cr-gy, fresh to grainy text, subtransl-opaq

Sh dk gy-black, carb in pt

Ls cr-tan, vfn xln, dns, foss in pt

Sh gy-grnsh gy-dk gy

Ls cr-tan with some brnsh, vfn xln, dns, foss, chert: fresh, tan-brn, subtransl, foss

Sh gy

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

Mix of: Ls cr-tan, vfn-fn xln, dns, foss in pt & Sh gy-grnsh to dk gy & blk

← 4938 (-2567)

Ls wh-cr-tan, vfn-fn xln, mostly dns, some subchalky, foss in minor %, tr of shales

Sh black, carb

Ls cr-tan, vfn xln, dns, sli foss

Ls cr-tan, vfn xln, dns, rr foss, chert: fresh, brn with white merbling, foss

Sh gy-black

← 4986 (-2615)

Ls cr-tan, vfn-fn xln, mostly dns, some subchalky, foss in pt, chert: fresh, tan-brn, transl, foss in pt; some Sh gy-dk gy-grnsh

Ls cr, fn xln, pr vis xln por to dns, sli foss in pt

← 5012 (-2641)

Sh black, carb

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

Mud Check, Drlg @ 4837':

Vis	Wt	WL	PV	YP
57	9.3	9.3	18	17
Chl	Hd	pH	LCM	Sol
6100	02	9.2	3	6.8

Shale Gas:
TG 42u incr

(recycle)

Shale Gas:
TG 45u incr

(recycle)

Shale Gas:
TG 12u incr

(recycle)

[illegible]