

Form	ACO1 - Well Completion
Operator	Carmen Schmitt, Inc.
Well Name	KROLL 1
Doc ID	1428113

Tops

Name	Top	Datum
Anhydrite	1492	881
Heebner	4007	-1634
Brown Lim	4078	-1705
Lansing	4093	-1720
Stark Sh.	4330	-1957
B/KC	4418	-2045
Marmaton	4423	-2050
Pawnee	4528	-2155
Ft.Scott	4598	-2225
Cherokee Sh	4623	-2250
Mississippian	4668	-2295

Form	ACO1 - Well Completion
Operator	Carmen Schmitt, Inc.
Well Name	KROLL 1
Doc ID	1428113

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	224	60/40	190	2%gel

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:
C46567-IN

BILL TO:

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

LEASE: KROLL #1

DATE	ORDER	SALESMAN	ORDER DATE	PURCHASE ORDER	SPECIAL INSTRUCTIONS		
11/28/2018	C46567		11/28/2018	KROLL #1	NET 30		
QUANTITY	U/M	ITEM NO./DESCRIPTION			D/C	PRICE	EXTENSION
		NEW WELL					
40.00	MI	MILEAGE PICKUP			25.25	2.00	59.80
40.00	MI	MILEAGE CEMENT PUMP TRUCK			25.25	4.00	119.60
1.00	EA	PUMP CHARGE SURFACE			25.21	1,100.00	822.67
190.00	SK	60/40 POZ MIX 2% GEL			25.20	10.75	1,527.79
11.00	SK	CALCIUM CHLORIDE			25.20	30.00	246.84
201.00	EA	BULK CHARGE			25.20	1.25	187.94
345.60	MI	BULK TRUCK - TON MILES			25.20	1.10	284.36
		7/10/43 19394.0001 BCP SI Well A/c Surface Cement					
REMIT TO: P.O. BOX 438 HAYSVILLE, KS 67060		COP FUEL SURCHARGE IS NOT TAXABLE AND IS ADDED TO MILEAGE, PUMP AND OR DELIVERY CHARGES ONLY.			Net Invoice: HODCO Sales Tax: Invoice Total:		3,249.00 135.76 <u>3,384.76</u>
RECEIVED BY		NET 30 DAYS					

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

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 46567

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

DATE 11-20 20 18

IS AUTHORIZED BY:

Carmen Schmitt

(NAME OF CUSTOMER)

Address _____ City _____ State KS.

To Treat Well As Follows: Lease Kroll Well No. #1 Customer Order No. _____

Sec. Twp. Range 14-23-21W County Hodgeman State KS

CONDITIONS: As a part of the consideration hereof it is agreed that Copeland Acid Service is to service or treat at owners 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

Well Owner or Operator

By

Agent

CODE	QUANTITY	DESCRIPTION	UNIT COST	AMOUNT
2	40	Mileage Pickup	2 ⁰⁰	80 ⁰⁰
2	40	Mileage Pump Truck	4 ⁰⁰	160 ⁰⁰
2	1	Pump Charge-Surface		1100 ⁰⁰
2	190	60/40 2% Gel Cement	10 ⁷⁵	2042 ⁵⁰
2	11	Calcium Chloride	30 ⁰⁰	330 ⁰⁰
2	201	Bulk Charge	1 ²⁵	257 ²⁵
2		Bulk Truck Miles 8.647 x 40 miles = 345.607m	1 ¹⁰	380 ¹⁰
		Process License Fee on _____ Gallons		4343 ⁹²
TOTAL BILLING Price as agreed to				3249 ⁰⁰

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 L.

Station GB

Matt Suchy

Well Owner, Operator or Agent

Remarks

NET 30 DAYS

[illegible]

COPELAND

Acid & Cement

BURRTON, KS ♦ GREAT BEND, KS
(620) 463-5181 (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:
C46570-IN

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

LEASE: **KROLL #1**

DATE	ORDER	SALESMAN	ORDER DATE	PURCHASE ORDER	SPECIAL INSTRUCTIONS	
11/30/2018	C46570		01/12/8018	KROLL #1	NET 30	
QUANTITY	U/M	ITEM NO./DESCRIPTION		D/C	PRICE	EXTENSION
40.00	MI	MILEAGE CEMENT PUMP TRUCK		15.00	4.00	136.00
1.00	EA	PUMP CHARGE-ROTARY PLUG		15.00	1,100.00	935.00
220.00	SK	60/40 POZ MIX 2% GEL		15.00	10.75	2,010.25
4.00	SK	2% ADDITIONAL GEL		15.00	22.00	74.80
224.00	EA	BULK CHARGE		15.00	1.25	238.00
394.24	MI	BULK TRUCK - TON MILES		15.00	1.10	368.61
710/43 19394.0001 Well R12 Cement Plug						
REMIT TO: P.O. BOX 438 HAYSVILLE, KS 67060		COP FUEL SURCHARGE IS NOT TAXABLE AND IS ADDED TO MILEAGE, PUMP AND OR DELIVERY CHARGES ONLY.		Net Invoice: HODCO Sales Tax: Invoice Total:		3,762.66 287.84 <u>4,050.50</u>
RECEIVED BY _____		NET 30 DAYS				

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

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.



FIELD
ORDER N° C 46570

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

DATE 11-28 20 18

IS AUTHORIZED BY:

Carmen Schmitt Inc
(NAME OF CUSTOMER)

Address _____ City _____ State _____

To Treat Well _____
As Follows: Lease Krell Well No. #1 Customer Order No. _____

Sec. Twp. _____
Range _____ County Hodgeman State KS

CONDITIONS: As a part of the consideration hereof it is agreed that Copeland Acid Service is to service or treat at owners 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

Well Owner or Operator

By

Agent

CODE	QUANTITY	DESCRIPTION	UNIT COST	AMOUNT
2	40	Mileage Pump Truck	4 ⁰⁰	160 ⁰⁰
2		Pump Charge - Rotary Plug		1100 ⁰⁰
2	220	Sacks 60/40 2% Gel	10 ⁷⁵	2365 ⁰⁰
2	4	Additional Gel	22 ⁰⁰	88 ⁰⁰
2	224	Bulk Charge	1 ²⁵	280 ⁰⁰
2		Bulk Truck Miles <u>9.856 Tx 40miles = 394.24 TM</u>	1 ¹⁰	433 ⁶⁶
		Process License Fee on _____ Gallons		
		TOTAL BILLING	15%	4426 ⁶⁶

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

Station

Greg C.

6B

Matt Suchy

Well Owner, Operator or Agent

664.00

3762.66

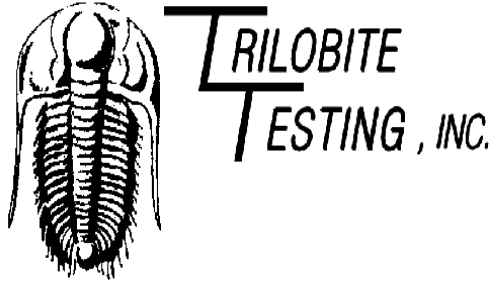
Remarks

NET 30 DAYS

Date <u>11/28/2018</u> District <u>GB</u> F.O. No. <u>46570</u>		Type Treatment: Amt.		Type Fluid	Sand Size	Pounds of Sand
Company <u>CARMEN SCHMITT INC.</u>		Bkdown	Bbl./Gal.			
Well Name & No. <u>KROLL #1</u>			Bbl./Gal.			
Location _____ Field _____			Bbl./Gal.			
County <u>HODGEMAN</u>	State <u>KS</u>	Flush	Bbl./Gal.			
Casing: Size _____ Type & Wt. _____ Set at _____ ft.		Treated from _____ ft. to _____ ft.	No. ft.	<u>0</u>		
Formation: _____ Perf. _____ to _____		from _____ ft. to _____ ft.	No. ft.	<u>0</u>		
Formation: _____ Perf. _____ to _____		from _____ ft. to _____ ft.	No. ft.	<u>0</u>		
Formation: _____ Perf. _____ to _____		Actual Volume of Oil / Water to Load Hole: _____	Bbl./Gal.			
Liner: Size _____ Type & Wt. _____ Top at _____ ft. Bottom at _____ ft.		Pump Trucks. No. Used: Std. <u>365</u> Sp. _____ Twin _____				
Cemented: ☒ Yes ☐ No Perforated from _____ ft. to _____ ft.		Auxiliary Equipment _____		<u>327</u>		
Tubing: Size & Wt. _____ Swung at _____ ft.		Personnel <u>GREG MIKE</u>				
Perforated from _____ ft. to _____ ft.		Auxiliary Tools _____				
Open Hole Size _____ T.D. _____ ft. P.B. to _____ ft.		Plugging or Sealing Materials: Type _____				
				Gals.		lb.

Company Representative MATT SUCHY Treater GREG CURTIS

[illegible]



DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc.**

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

Kroll #1

14-23S-21W Hodgeman, KS

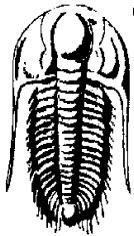
Start Date: 2018.11.26 @ 10:37:23

End Date: 2018.11.26 @ 20:53:58

Job Ticket #: 65009 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.11.29 @ 08:59:03



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

14-23S-21W Hodgeman, KS

Kroll #1

Job Ticket: 65009

DST#: 1

Test Start: 2018.11.26 @ 10:37:23

GENERAL INFORMATION:

Formation: **Ft. Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:17:44

Time Test Ended: 20:53:58

Interval: 4583.00 ft (KB) To 4625.00 ft (KB) (TVD)

Total Depth: 4625.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan Lonsdale

Unit No: 73

Reference Elevations: 2373.00 ft (KB)

2364.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6771

Inside

Press@RunDepth: 20.76 psig @ 4584.00 ft (KB)

Start Date: 2018.11.26

End Date:

2018.11.26

Start Time: 10:37:24

End Time:

20:53:58

Capacity: 8000.00 psig

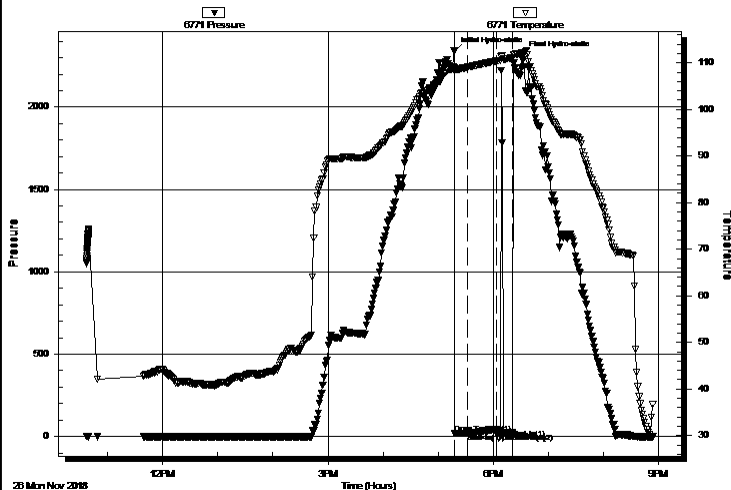
Last Calib.: 2018.11.26

Time On Btm: 2018.11.26 @ 17:17:29

Time Off Btm: 2018.11.26 @ 18:31:14

TEST COMMENT: 15- IF- Very weak surface blow
30- IS- No blow
15- FF- No blow . Flushed tool. No blow . Pulled tool

Pressure vs. Time



PRESSURE SUMMARY

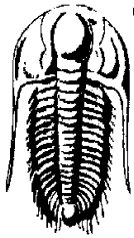
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2338.51	109.01	Initial Hydro-static
1	19.02	108.40	Open To Flow (1)
15	20.76	109.06	Shut-In(1)
46	42.49	110.40	End Shut-In(1)
46	20.27	110.41	Open To Flow (2)
63	22.31	111.06	Shut-In(2)
74	2309.79	112.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	M	0.14

Gas Rates

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

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

14-23S-21W Hodgeman, KS

Kroll #1

Job Ticket: 65009

DST#: 1

Test Start: 2018.11.26 @ 10:37:23

GENERAL INFORMATION:

Formation: **Ft. Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:17:44

Time Test Ended: 20:53:58

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan Lonsdale

Unit No: 73

Interval: 4583.00 ft (KB) To 4625.00 ft (KB) (TVD)

Total Depth: 4625.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2373.00 ft (KB)

2364.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6753 Outside

Press@RunDepth: psig @ 4584.00 ft (KB)

Start Date: 2018.11.26

End Date:

2018.11.26

Start Time: 10:37:43

End Time:

20:54:08

Capacity: 8000.00 psig

Last Calib.:

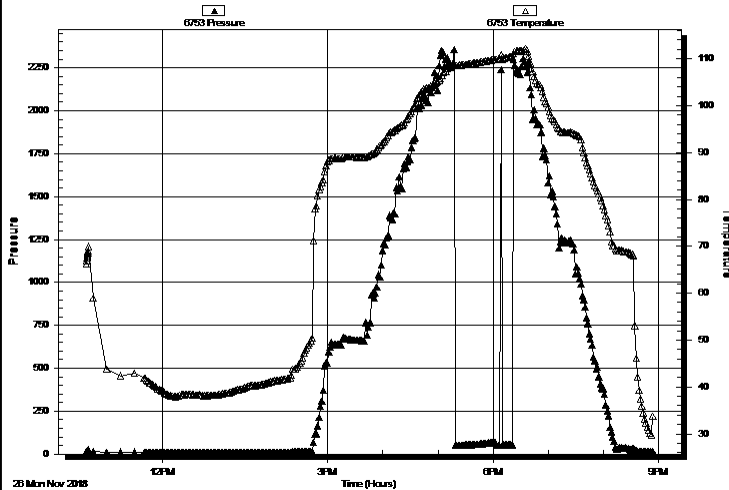
2018.11.26

Time On Btm:

Time Off Btm:

TEST COMMENT: 15- IF- Very weak surface blow
30- IS- No blow
15- FF- No blow . Flushed tool. No blow . Pulled tool

Pressure vs. Time



PRESSURE SUMMARY

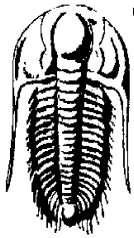
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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Recovery

Length (ft)	Description	Volume (bbl)
10.00	M	0.14

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt, Inc.

14-23S-21W Hodgeman, KS

PO Box 47
Great Bend, KS 67530

Kroll #1

Job Ticket: 65009

DST#: 1

ATTN: Brad Rine

Test Start: 2018.11.26 @ 10:37:23

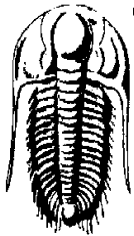
Tool Information

Drill Pipe:	Length: 4576.00 ft	Diameter: 3.82 inches	Volume: 64.87 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	64000.00 lb
		Total Volume:	- bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial	58000.00 lb
Depth to Top Packer:	4583.00 ft			Final	58000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	42.00 ft				
Tool Length:	70.00 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			4556.00	
Shut In Tool	5.00			4561.00	
Hydraulic tool	5.00			4566.00	
Jars	5.00			4571.00	
Safety Joint	3.00			4574.00	
Packer	5.00			4579.00	28.00 Bottom Of Top Packer
Packer	4.00			4583.00	
Stubb	1.00			4584.00	
Recorder	0.00	6771	Inside	4584.00	
Recorder	0.00	6753	Outside	4584.00	
Perforations	5.00			4589.00	
Change Over Sub	1.00			4590.00	
Drill Pipe	31.00			4621.00	
Change Over Sub	1.00			4622.00	
Bullnose	3.00			4625.00	42.00 Bottom Packers & Anchor

Total Tool Length: 70.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc.

14-23S-21W Hodgeman, KS

PO Box 47
Great Bend, KS 67530

Kroll #1

Job Ticket: 65009

DST#: 1

ATTN: Brad Rine

Test Start: 2018.11.26 @ 10:37:23

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 68.00 sec/qt

Water Loss: 11.97 in³

Resistivity: ohm.m

Salinity: 10000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	M	0.142

Total Length: 10.00 ft

Total Volume: 0.142 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

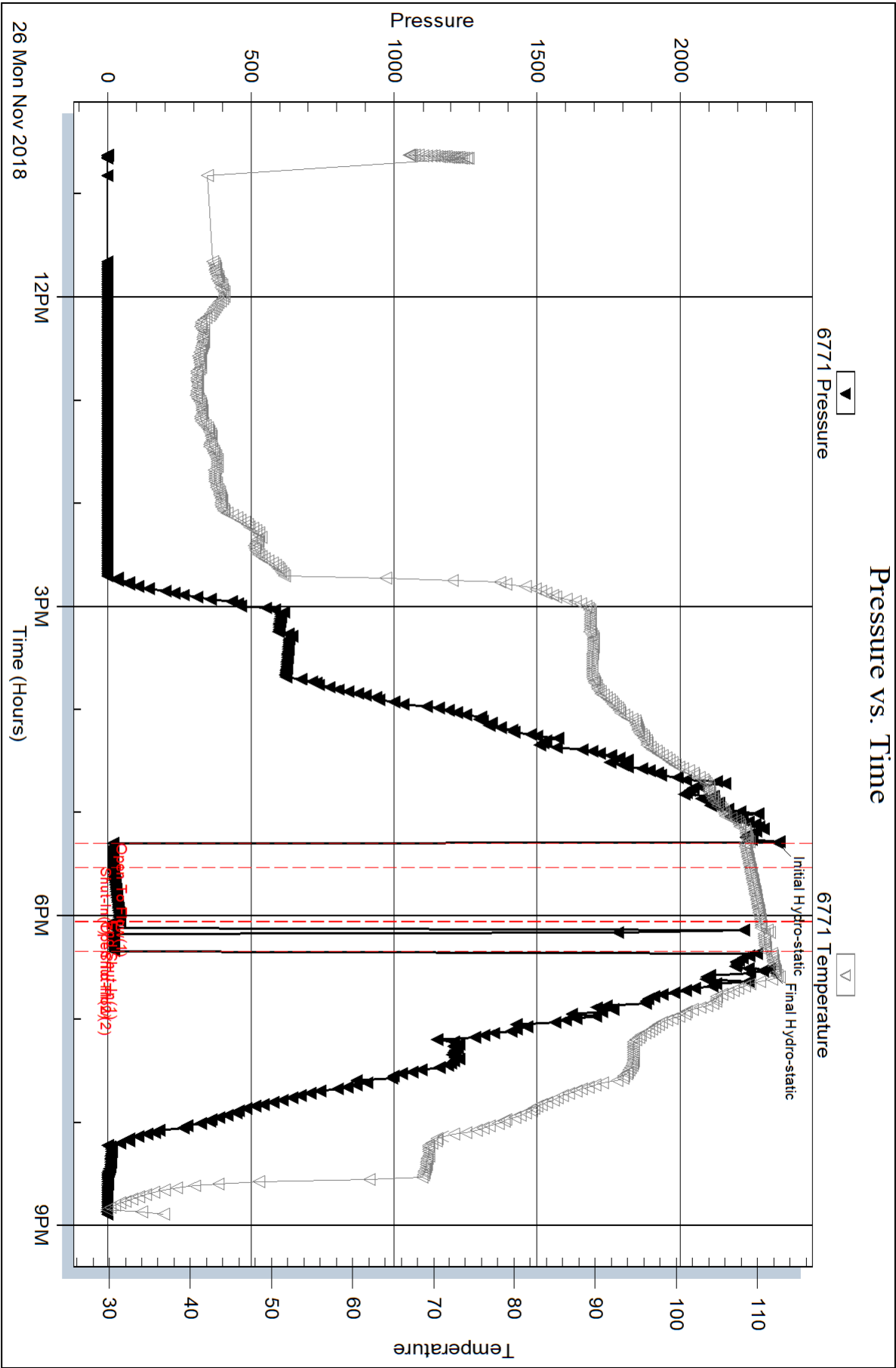
Serial #: 6771

Inside

Carmen Schmitt, Inc.

Kroll #1

DST Test Number: 1



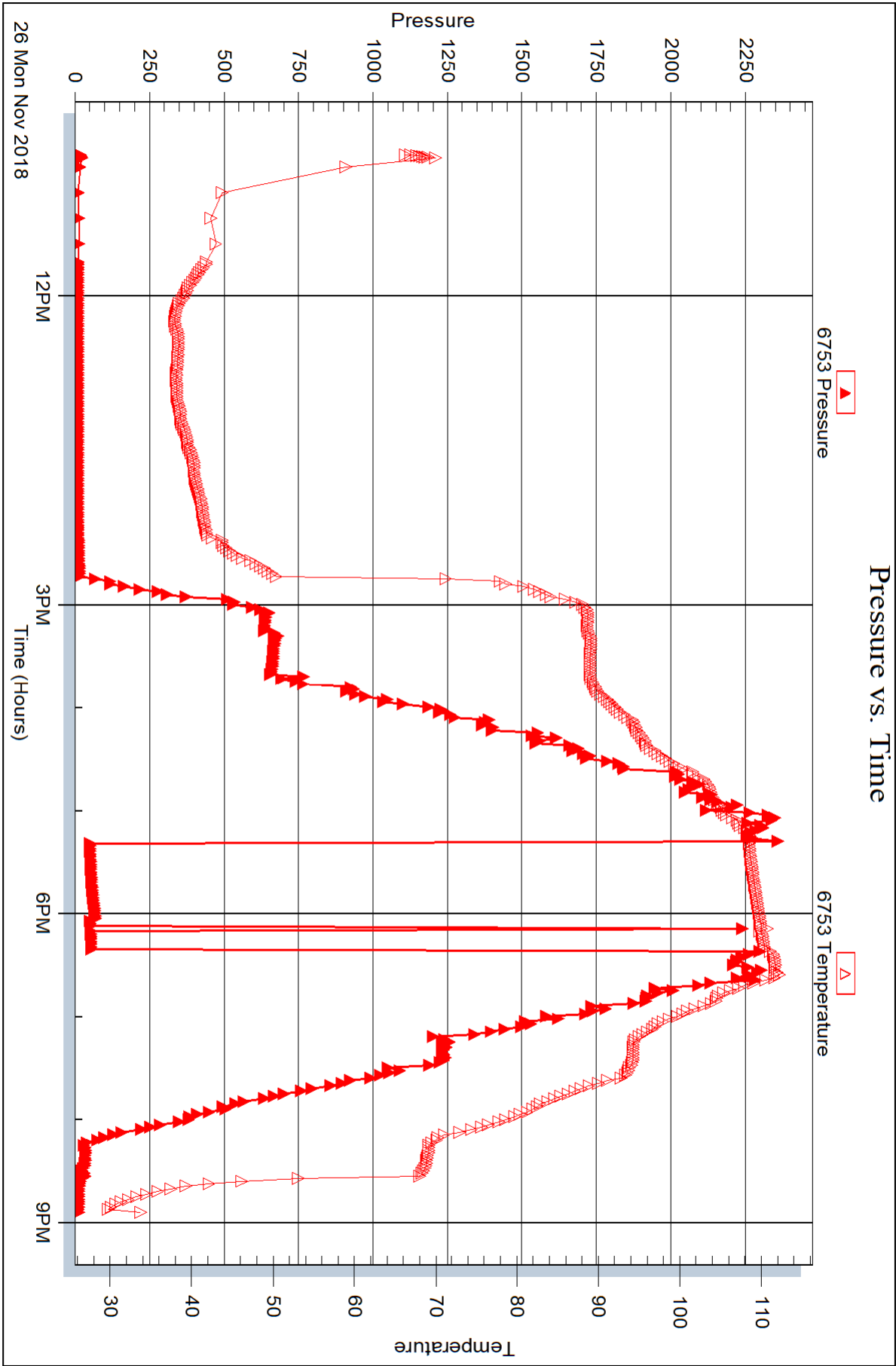
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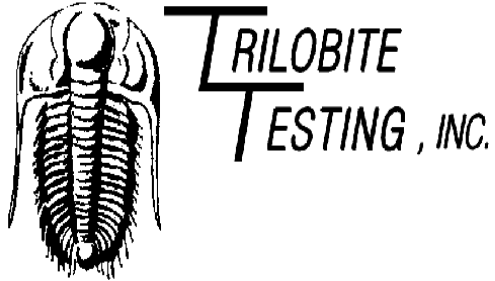
Outside

Carmen Schmitt, Inc.

Kroll #1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc.**

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

Kroll #1

14-23S-21W Hodgeman, KS

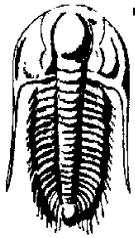
Start Date: 2018.11.27 @ 19:53:00

End Date: 2018.11.28 @ 05:06:20

Job Ticket #: 65010 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.11.29 @ 08:58:35



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

14-23S-21W Hodgeman, KS

Kroll #1

Job Ticket: 65010

DST#: 2

Test Start: 2018.11.27 @ 19:53:00

GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:11:06

Time Test Ended: 05:06:20

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer Staab

Unit No: 73

Interval: 4583.00 ft (KB) To 4677.00 ft (KB) (TVD)

Total Depth: 4677.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2373.00 ft (KB)

2364.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6771 Inside

Press@RunDepth: 44.50 psig @ 4584.00 ft (KB)

Start Date: 2018.11.27

End Date:

2018.11.28

Start Time: 19:53:01

End Time:

05:06:20

Capacity: 8000.00 psig

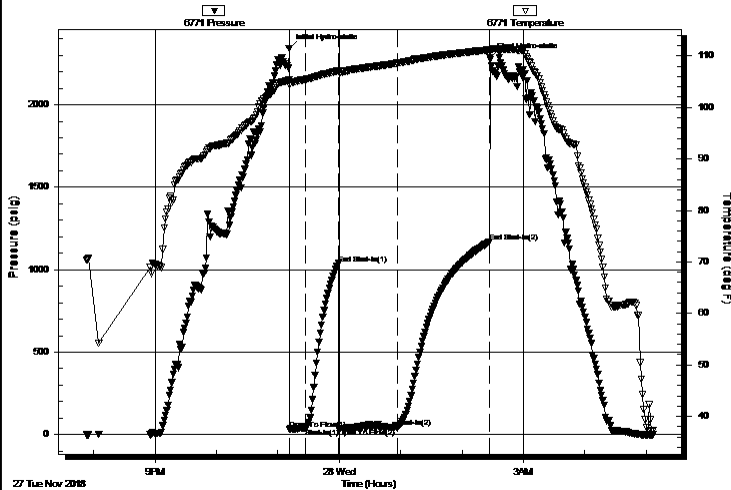
Last Calib.: 2018.11.28

Time On Btm: 2018.11.27 @ 23:10:51

Time Off Btm: 2018.11.28 @ 02:27:21

TEST COMMENT: 15-IF-Weak; Built to 2"
30-ISI-No return
60-FF-Weak; Built to 1"
90-FSI-No Return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2341.60	105.36	Initial Hydro-static
1	33.18	104.31	Open To Flow (1)
17	38.23	105.45	Shut-In(1)
48	1037.44	107.09	End Shut-In(1)
49	38.41	106.92	Open To Flow (2)
106	44.50	108.63	Shut-In(2)
196	1166.18	111.16	End Shut-In(2)
197	2285.61	111.13	Final Hydro-static

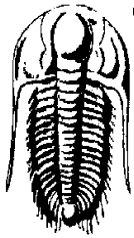
Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud 100%M	0.43

Gas Rates

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

* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

14-23S-21W Hodgeman, KS

Kroll #1

Job Ticket: 65010

DST#: 2

Test Start: 2018.11.27 @ 19:53:00

GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:11:06

Time Test Ended: 05:06:20

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer Staab

Unit No: 73

Interval: 4583.00 ft (KB) To 4677.00 ft (KB) (TVD)

Total Depth: 4677.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2373.00 ft (KB)

2364.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6753 Outside

Press@RunDepth: psig @ 4584.00 ft (KB)

Start Date: 2018.11.27

End Date:

2018.11.28

Start Time: 19:53:05

End Time:

05:06:30

Capacity: 8000.00 psig

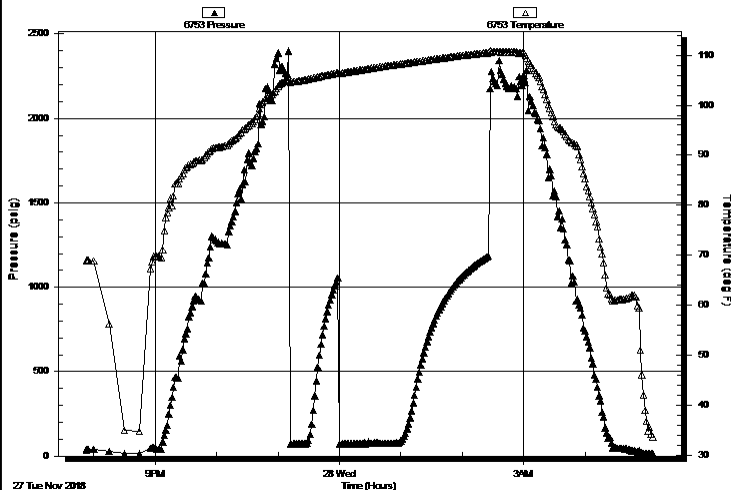
Last Calib.: 2018.11.28

Time On Btm:

Time Off Btm:

TEST COMMENT: 15-IF-Weak; Built to 2"
30-ISI-No return
60-FF-Weak; Built to 1"
90-FSI-No Return

Pressure vs. Time



PRESSURE SUMMARY

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

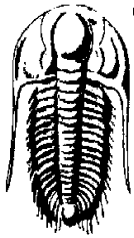
Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud 100%M	0.43

Gas Rates

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

* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt, Inc.

14-23S-21W Hodgeman, KS

PO Box 47
Great Bend, KS 67530

Kroll #1

Job Ticket: 65010

DST#: 2

ATTN: Brad Rine

Test Start: 2018.11.27 @ 19:53:00

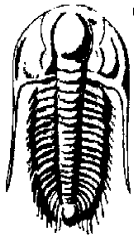
Tool Information

Drill Pipe:	Length: 4577.00 ft	Diameter: 3.82 inches	Volume: 64.88 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 78000.00 lb
		Total Volume:	- bbl	Tool Chased ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4583.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	94.00 ft			
Tool Length:	122.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			4556.00	
Shut In Tool	5.00			4561.00	
Hydraulic tool	5.00			4566.00	
Jars	5.00			4571.00	
Safety Joint	3.00			4574.00	
Packer	5.00			4579.00	28.00 Bottom Of Top Packer
Packer	4.00			4583.00	
Stubb	1.00			4584.00	
Recorder	0.00	6771	Inside	4584.00	
Recorder	0.00	6753	Outside	4584.00	
Perforations	25.00			4609.00	
Change Over Sub	1.00			4610.00	
Drill Pipe	63.00			4673.00	
Change Over Sub	1.00			4674.00	
Bullnose	3.00			4677.00	94.00 Bottom Packers & Anchor

Total Tool Length: 122.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc.

14-23S-21W Hodgeman, KS

PO Box 47
Great Bend, KS 67530

Kroll #1

Job Ticket: 65010

DST#: 2

ATTN: Brad Rine

Test Start: 2018.11.27 @ 19:53:00

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: 68.00 sec/qt

Cushion Volume:

bbl

Water Loss: 13.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Mud 100%M	0.425

Total Length: 30.00 ft

Total Volume: 0.425 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 1#LCM

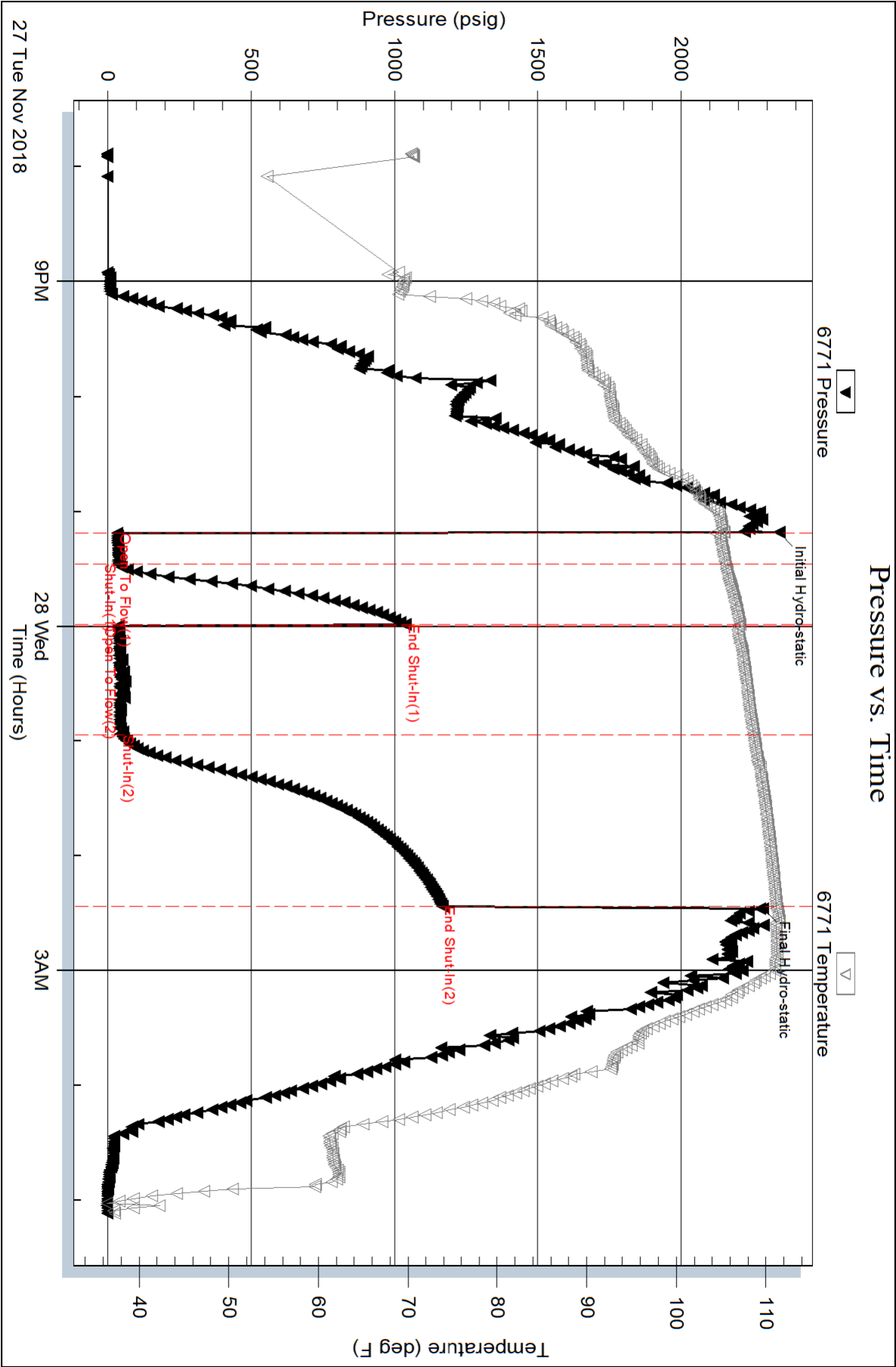
Serial #: 6771

Inside

Carmen Schmitt, Inc.

Kroll #1

DST Test Number: 2



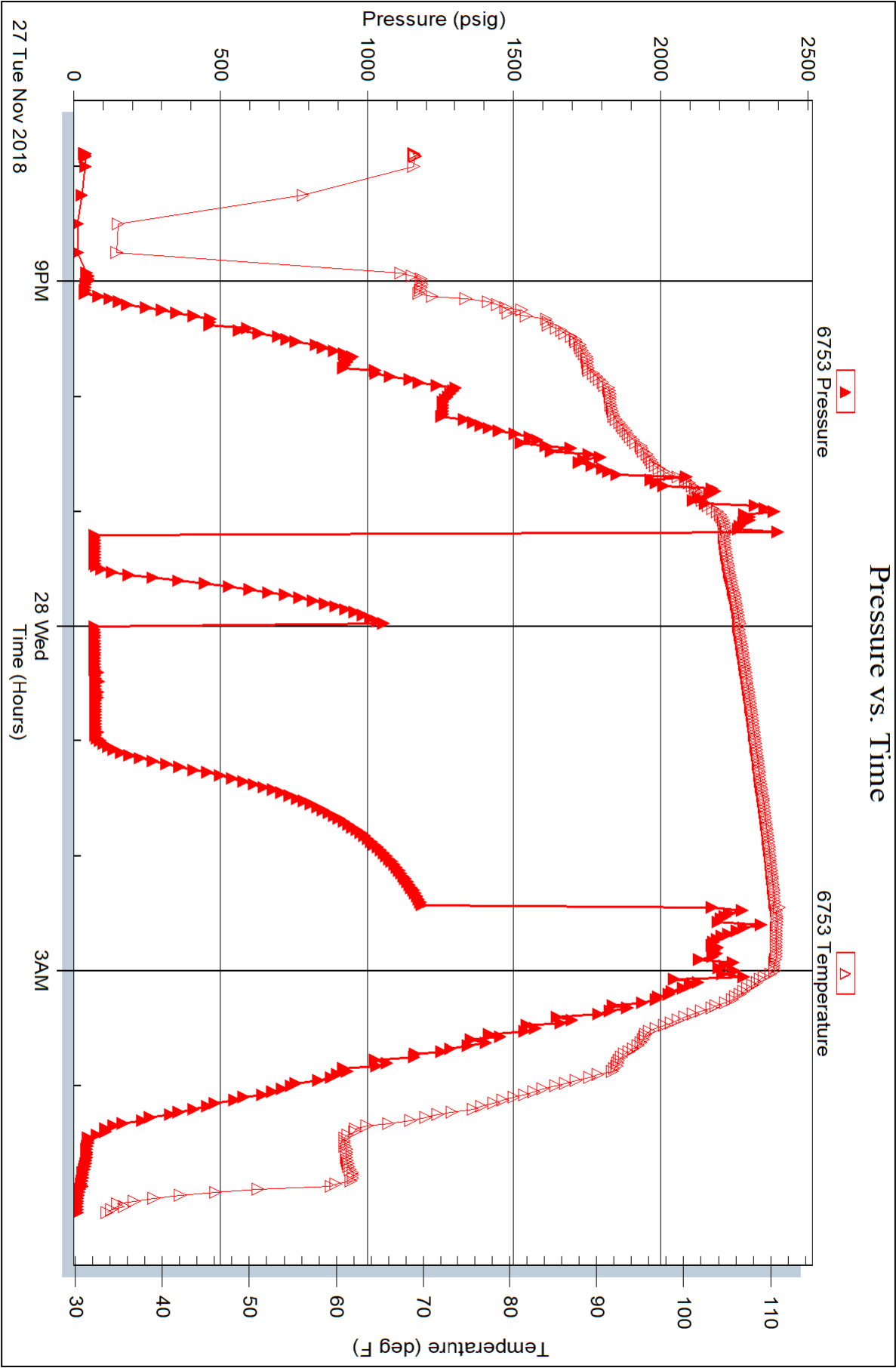
Serial #: 6753

Outside

Carmen Schmitt, Inc.

Kroll #1

DST Test Number: 2





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 65009

Well Name & No. Kroll #1 Test No. 1 Date 11/26/18
 Company Carmen Schmitt, Inc. Elevation 2373 KB 2364 GL
 Address PO Box 47 Great Bend, KS 67530
 Co. Rep / Geo. Brad Rine Rig Southwind 8
 Location: Sec. 14 Twp 23 S Rge. 21 W Co. Hadgeman State KS

Interval Tested 4583-4625 Zone Tested Fl. Scott
 Anchor Length 42' Drill Pipe Run 4576 Mud Wt. 9.2
 Top Packer Depth 4578 Drill Collars Run — Vis 68
 Bottom Packer Depth 4583 Wt. Pipe Run — WL 120
 Total Depth 4625 Chlorides 10,000 ppm System LCM 1#

Blow Description IF - Very weak surface blow
ISI - No blow
FF - No blow, Flushed tool. No blow Pulled tool
FSI -

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>M</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 10' BHT 111° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic	<u>2339</u>	☒ Test	<u>1150</u>	T-On Location	<u>1020</u>
(B) First Initial Flow	<u>19</u>	☒ Jars	<u>250</u>	T-Started	<u>1037</u>
(C) First Final Flow	<u>21</u>	☒ Safety Joint	<u>75</u>	T-Open	<u>1717</u>
(D) Initial Shut-In	<u>42</u>	☐ Circ Sub		T-Pulled	<u>1817</u>
(E) Second Initial Flow	<u>20</u>	☐ Hourly Standby		T-Out	<u>2054</u>
(F) Second Final Flow	<u>22</u>	☒ Mileage	<u>152 RT</u> 120rt	Comments	
(G) Final Shut-In		☐ Sampler			
(H) Final Hydrostatic	<u>2310</u>	☐ Straddle			

Initial Open	<u>15</u>	☒ Shale Packer	<u>250</u>	☐ EM Tool	
Initial Shut-In	<u>30</u>	☐ Extra Packer		☐ Ruined Shale Packer	
Final Flow	<u>15</u>	☐ Extra Recorder		☐ Ruined Packer	
Final Shut-In		☐ Day Standby		☐ Extra Copies	
		☐ Accessibility		Sub Total	<u>0</u>
		Sub Total	<u>1845</u>	Total	<u>1845</u>
				MP/DST Disc't	

Approved By _____ Our Representative Brennan Lonsdale

Triobite 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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 65010

Well Name & No. Kroll #1 Test No. 2 Date 11/27/2018
 Company Carmen Schmitt Inc Elevation 2373 KB 2364 GL
 Address PO Box 47 Great Bend KS 67530
 Co. Rep / Geo. Brad Rine Rig Southwind #8
 Location: Sec. 14 Twp 23s Rge. 24w Co. Hodgeman State KS

Interval Tested 4583' - 4677' Zone Tested Mississippi
 Anchor Length 94' Drill Pipe Run 4577' Mud Wt. 9.2
 Top Packer Depth 4578' Drill Collars Run - Vis 68
 Bottom Packer Depth 4583' Wt. Pipe Run - WL 13.6
 Total Depth 4677' Chlorides 8700 ppm System LCM 1#

Blow Description 1st - Weak; Built to 2"
2nd No Return
77' Weak; Built to 1"
78' No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>30'</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 30' BHT 111° Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>2341</u>	☒ Test 1150	T-On Location <u>19:23</u>
(B) First Initial Flow <u>33</u>	☒ Jars 250	T-Started <u>19:53</u>
(C) First Final Flow <u>38</u>	☒ Safety Joint 75	T-Open <u>23:10</u>
(D) Initial Shut-In <u>1037</u>	☐ Circ Sub	T-Pulled <u>02:25 11/28/2018</u>
(E) Second Initial Flow <u>38</u>	☐ Hourly Standby	T-Out <u>05:05</u>
(F) Second Final Flow <u>44</u>	☒ Mileage <u>152 RT x 2</u> 240	Comments <u>Loaded @ 12:00</u>
(G) Final Shut-In <u>1166</u>	☐ Sampler	<u>11/28/2018</u>
(H) Final Hydrostatic <u>2285</u>	☐ Straddle	

Initial Open <u>15</u>	☒ Shale Packer 250	☐ EM Tool
Initial Shut-In <u>30</u>	☐ Extra Packer	☐ Ruined Shale Packer
Final Flow <u>60</u>	☐ Extra Recorder	☐ Ruined Packer
Final Shut-In <u>90</u>	☐ Day Standby	☐ Extra Copies
	☐ Accessibility	Sub Total <u>0</u>
	Sub Total <u>1965</u>	Total <u>1965</u>

Approved By

Our Representative

MP/DST Disc't

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.

785-259-0056



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

Well Name:	Kroll #1 - Carmen Schmitt, Inc.		
API:	15-083-21962-00-00		
Location:	SE-SW-NW-SE, Section 14-23S-21W		
License Number:	KCC #6569	Region:	Hodgeman Co, Ks.
Spud Date:	November 19, 2018	Drilling Completed:	November 28, 2018
Surface Coordinates:	1590' FSL & 2245' FEL	Results:	P & A
	of Section		
Bottom Hole	Vertical Wellbore	Field:	Horacek
Coordinates:			
Ground Elevation (ft):	2363 Ft.	K.B. Elevation (ft):	2373 Ft.
Logged Interval (ft):	3800 Ft.	To:	4695 Ft. Total Depth (ft): RTD 4695 Ft. *No Log
Formation:	Mississippian at Total Depth		
Type of Drilling Fluid:	Chemical		

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 structural position, it was the decision of the Operator, to plug and abandon the "Kroll #1", on November 28, 2018.

Respectfully submitted,
M. Bradford Rine, geologist

Drilling Information

Rig: Southwind, #8
Pump: Emsco D-375 6x14
Drawworks: RMI 550
Collars: 464' 2-1/4 x 6-1/4
Drillpipe: 4-1/2" 16.6# XH
Toolpusher: James Pfaff

Mud: Mudco (Jason Whiting)
Gas Detector: None
Drill Stem Tests: Trilobite (Brannan Lonsdale, Spencer Staab)
Logs: None
Water: Nearby pond (pumped)
Company Representatives:
Office: Carmen Schmitt
Field: NA

Daily Drilling Status

Date:	Operations/Depth/Comments
11-19-18	MIRT, RU, Spud @ 0'
11-20-18	Waiting on Cement @ 224'
11-21-18	Drilling @ 1498'
11-22-18	Drilling @ 2635'
11-23-18	Drilling @ 3311'
11-24-18	Drilling @ 3883'
11-25-18	Drilling @ 4340'
11-26-18	Circulating for Samples @ 4625'
11-27-18	Circulating for Samples @ 4660'
11-28-18	Trip in Hole with Bit after DST 2 @ 4677'
11-29-18	Finish plugging at 1:45 am @ 4695'

	Results:	D&A		(Well A)	Oil	(Well B)	Oil		
	Carmen Schmitt, Inc.			Carmen Schmitt, Inc.		Carmen Schmitt, Inc.			
	Kroll #1			Horacek "A" #1		Gleason #1			
	1590' FSL & 2245' FEL			1820'FNL & 1000'FWL		1390' FNL & 330' FEL			
	Sec. 14-23S-21W			Sec. 13-23S-21W		Sec. 14-23S-21W			
		2373	KB	2316	KB	2334	KB	Well A	Well B
Formations	Sample	No Log	Datum	E-Log	Datum	E-Log	Datum	Comparison(s)	
Anhydrite	1492	NA	881	1426	890	1441	893	-9	-12
B/Anhydrite	1517	NA	856	1447	869	1462	872	-13	-16
Heebner Sh.	4007	NA	-1634	3921	-1605	3944	-1610	-29	-24
Brown Lime	4078	NA	-1705	3994	-1678	4019	-1685	-27	-20
Lansing	4093	NA	-1720	4008	-1692	4034	-1700	-28	-20
Stark Sh.	4330	NA	-1957	4232	-1916	4262	-1928	-41	-29
B/Kansas City	4418	NA	-2045	4320	-2004	4349	-2015	-41	-30
Marmaton	4423	NA	-2050	4327	-2011	4355	-2021	-39	-29
Pawnee	4528	NA	-2155	4434	-2118	4458	-2124	-37	-31
Ft. Scott	4598	NA	-2225	4502	-2186	4527	-2193	-39	-32
Cherokee Sh.	4623	NA	-2250	4525	-2209	4553	-2219	-41	-31
Mississippian	4668	NA	-2295	4567	-2251	4593	-2259	-44	-36
Total Depth	4695	NA	-2322	4576	-2260	4599	-2265	-62	-57

Casing Record, Bit Record, Deviation Surveys

CASING:

Conductor: None

Surface: Ran 210' of 8-5/8" 23# New Casing. (Copeland) Cement with 200 sx 60/40 POZ, 2% gel 3% CC. Cement did circulate. Plug down at 1:45 am, November 20, 2018.

Production: Plugged well as follows: Total 170 sx 60/40 Poz, 4% gel, 1/4# Flo Seal. 1st plug @ 1530' w/ 50 sx, 2nd plug @ 690' w/ 50 sx, 3rd plug @ 270' w/ 50 sx, 4th plug @ 60' w/ 20 sx, 30 sx in Rathole, 20 sx in Mousehole. Job complete at 1:45 am, November 29, 2018.

BITS:

No.	Size	Make	Model	Depth In	Depth Out	Hours
1	12-1/4	Varel	RR	0	224	1.75
2	7-7/8	Varel	HE29H	224	4625	119.75
3	7-7/8	Varel	HE29Hrr	4625	4695	

DEVIATION SURVEYS:

Deviation:	Depth:	Deviation:	Depth:
0.50*	224'		
1.75*	4625'		

PIPE STRAPS:

Difference:	Depth:
1.16' long	4625'

DST #1: 4583-4625 (Ft. Scott)

Times: 15-30-15-out

Initial Open: V Wk Surface Blow throughout

Final Open: No Blow, flush tool-no help

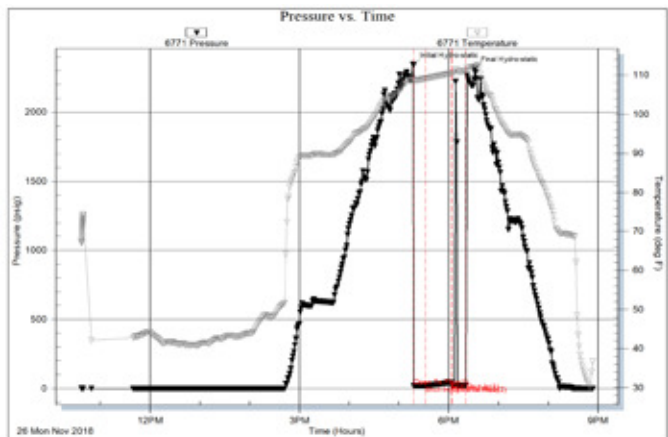
Rec: 10' mud

IHP: 2339 FHP: 2310

IFP: 19-21 FFP: 20-22

ISIP: 42 FSIP: NA

BHT: 111°F



DST #2: 4583-4677 (Mississippi)

Times: 15-30-60-90

Initial Open: Wk Blow, built to 2" i.b.

Final Open: Wk Blow, built to 1" i.b.

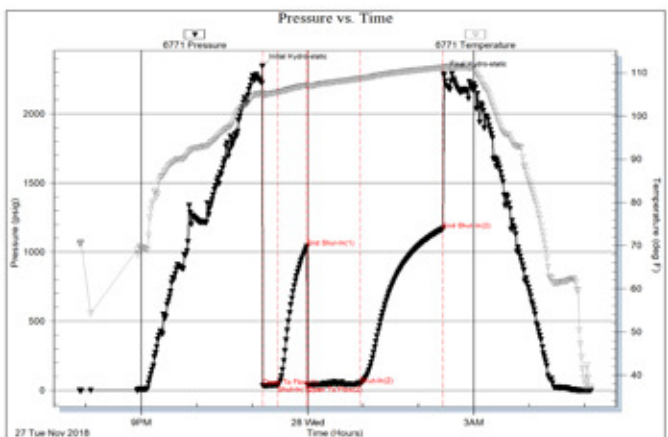
Rec: 30' mud

IHP: 2341 FHP: 2285

IFP: 33-38 FFP: 38-44

ISIP: 1037 FSIP: 1166

BHT: 111°F



Rock Types

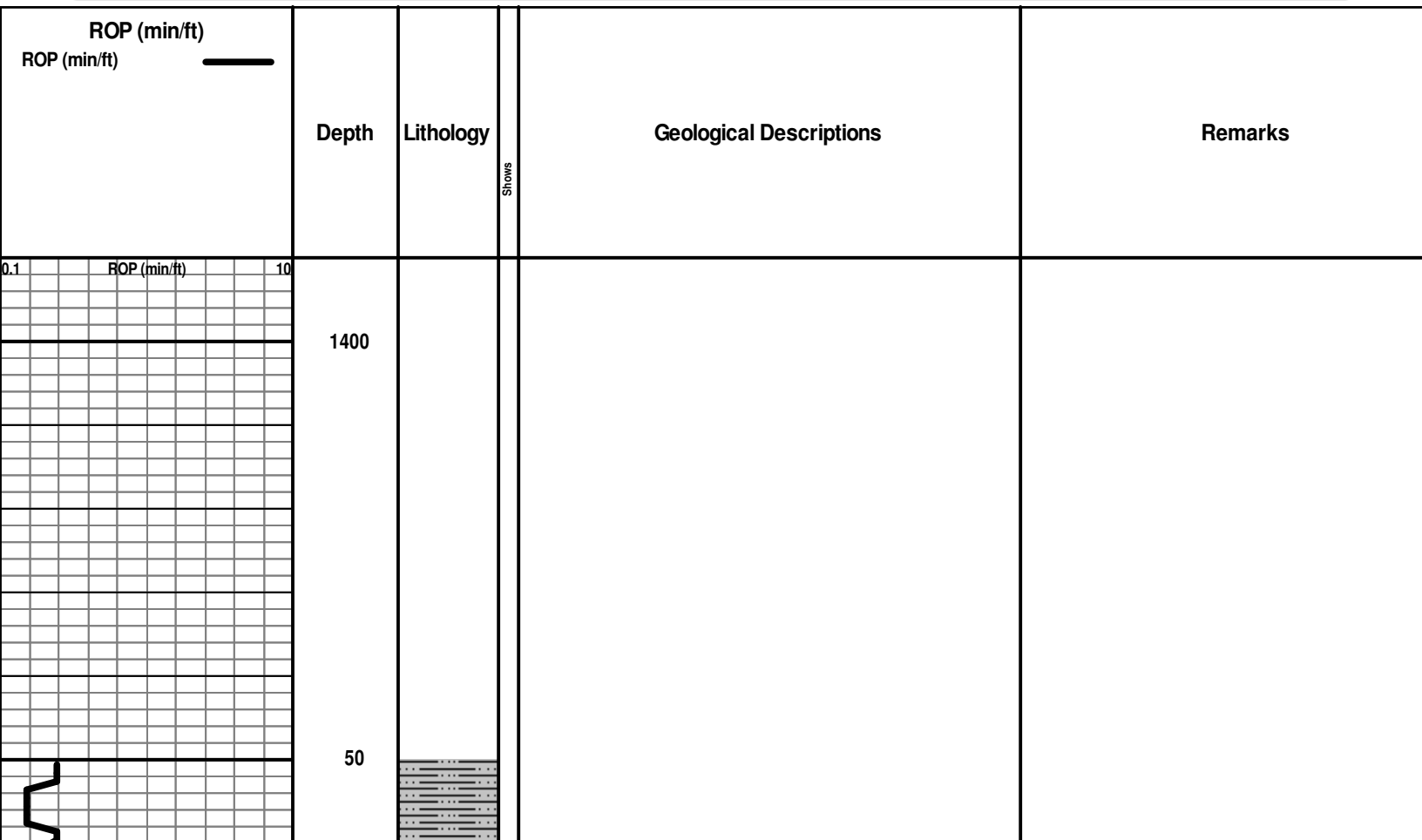
	Congl granite wash		Bent		Dol		Salt		Till
	dol ls limey		Brec		Gyp		Shale		Siltysh
	New symbol		Cht		Igne		Shcol		Shlysiltst
	Dolom ls limey		Clyst		Lmst		Shgy		Sandy
	New symbol		Black shale/coal		Meta		Siltst		
	Anhy		Congl		Mrst		Ss		

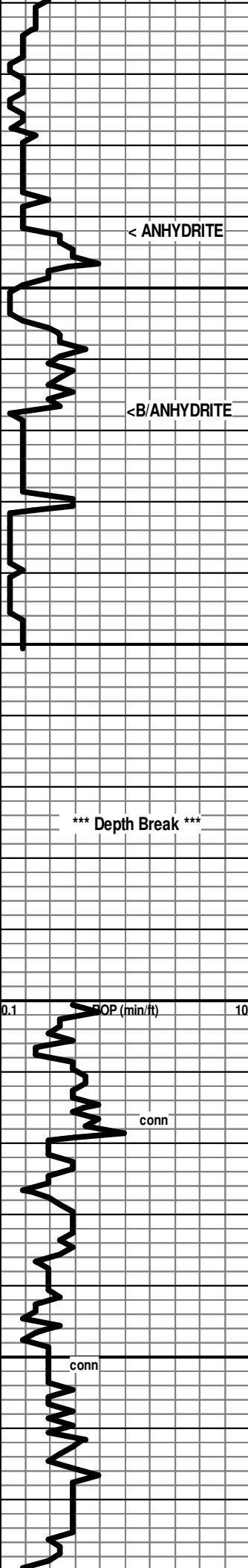
Accessories

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

Other Symbols

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



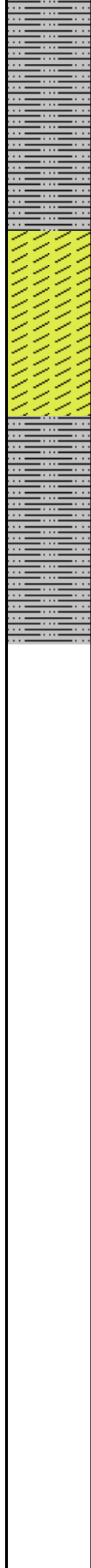


1500

50

3800

3850

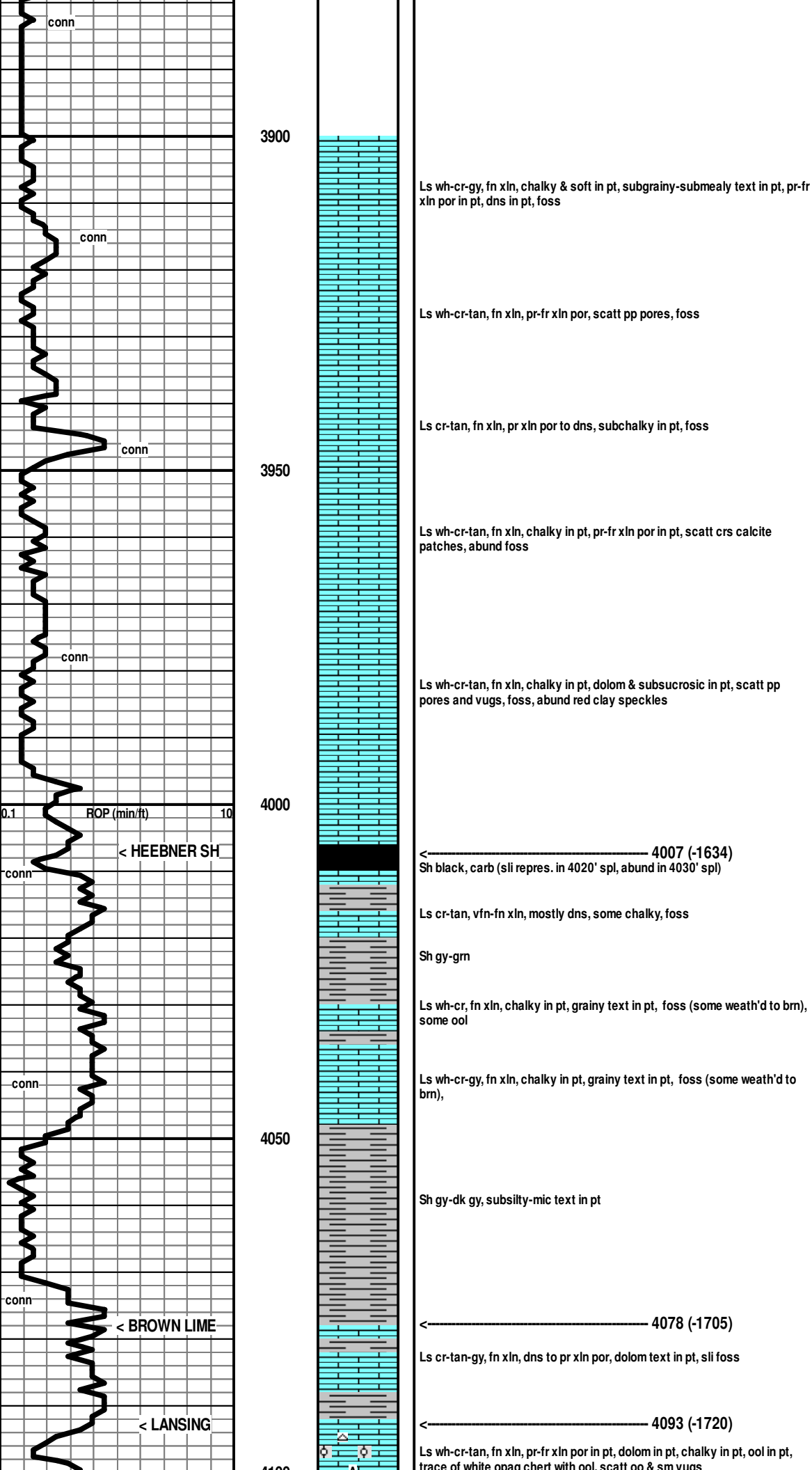


← 1492 (+881)

Anhydrite Interval, based on drill time only!

← 1517 (+856)

* Displace & Mudup
@ 3343 Ft.!



Mud Check, Drilg @ 3976':

Vis	Wt	WL	LCM	PV	YP
53	8.9	8.0	2	18	19
Chl	Hd	pH	Solids		
6500	20	10.5	3.9		

<----- 4007 (-1634)
Sh black, carb (sli repres. in 4020' spl, abund in 4030' spl)

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

Sh gy-grn

Ls wh-cr, fn xln, chalky in pt, grainy text in pt, foss (some weath'd to brn), some ool

Ls wh-cr-gy, fn xln, chalky in pt, grainy text in pt, foss (some weath'd to brn),

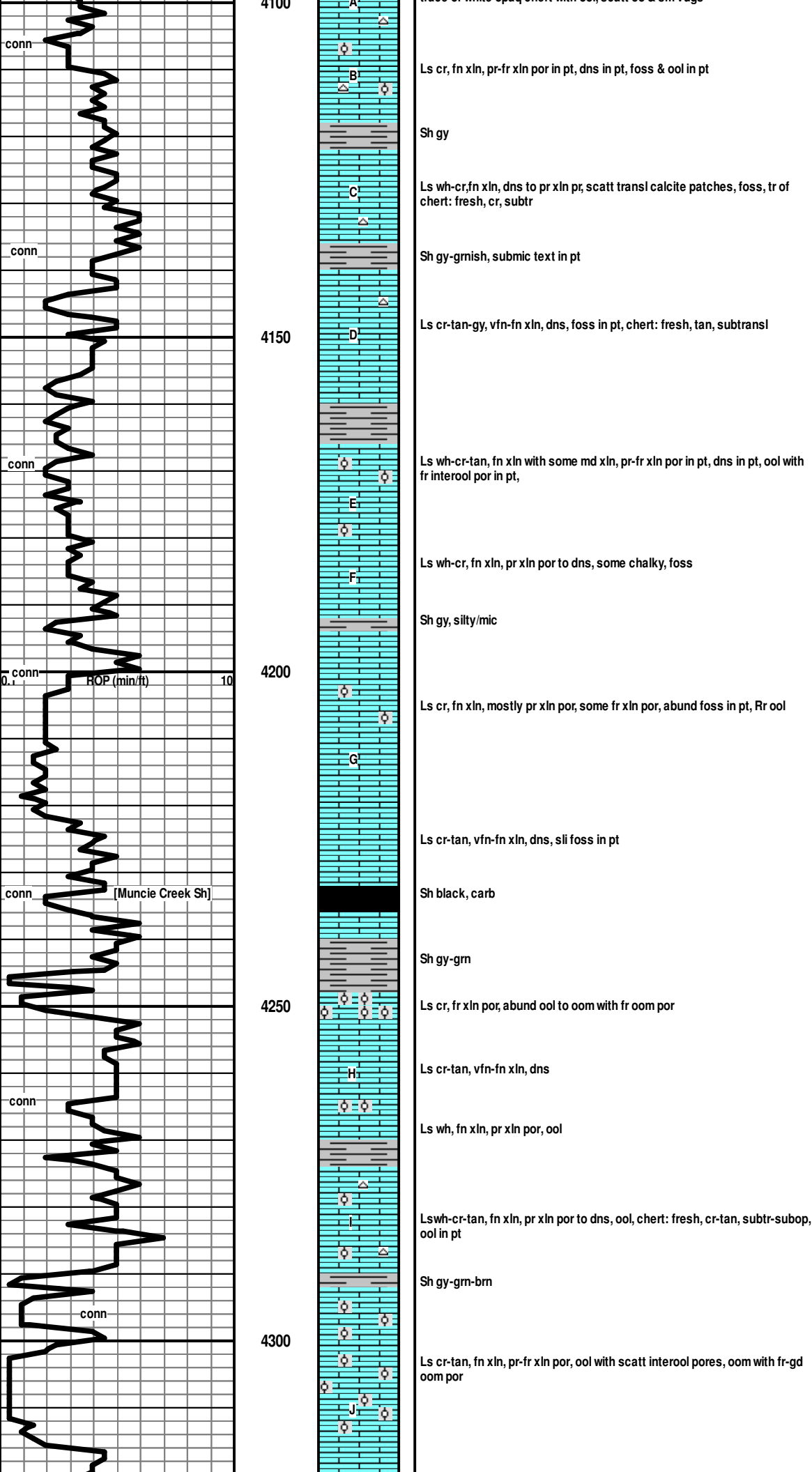
Sh gy-dk gy, subsilty-mic text in pt

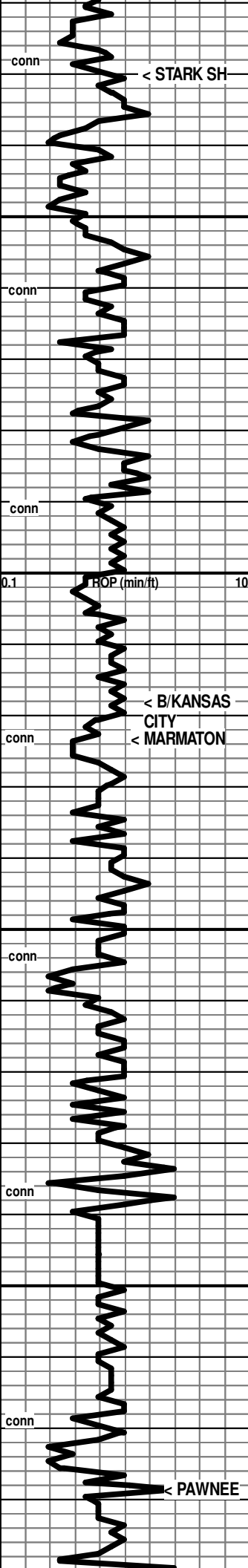
<----- 4078 (-1705)

Ls cr-tan-gy, fn xln, dns to pr xln por, dolom text in pt, sli foss

<----- 4093 (-1720)

Ls wh-cr-tan, fn xln, pr-fr xln por in pt, dolom in pt, chalky in pt, ool in pt, trace of white opag chert with ool. scatt oo & sm vugs





4350

4400

4450

4500



Ls cr-tan, fn lxn, pr xln por to dns, foss in pt

<----- 4330 (-1957)

Sh gy-grnsh (no black carb in spls)

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

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

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

Ls wh-cr-tan, chalky in pt, pr xln por to dns in pt, foss in pt, rr ool in pt

Sh black, carb

Sh gy-grnsh

Ls cr-tan-brn, vfn-fn xln, mostly dns, scatt pr xln por, foss in pt

Ls cr-tan, vfn-fn xln, dns to some pr xln por, foss, trace of chert: fresh, subopaq, gy, foss

<----- 4418 (-2045)

Sh mostly gy, some dk grnsh, pyr in pt

<----- 4423 (-2050)

Ls wh-cr, fn xln, pr xln por, subchalky in pt, ool/rr oom

Ls cr-tan, vfn-fn xln, dns, sli foss, chert: fresh, tan, subtr, foss

Sh gy

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

Sh pl gy-gy-grnsh

Ls wh-cr-tan, vfn-fn xln, mostly dns, some pr xln por, some chalky, foss

Ls wh-cr-tan, vfn-fn xln, mostly dns, some pr xln por, some chalky, foss

Sh grnsh gy

Ls wh-cr-tan, fn xln, mostly dns with scatt patches of pr xln por, foss in pt

Ls cr, fn xln, mostly dns with patches of pr xln por, foss in pt

Sh gy-black-grm-reddish, subcarb in pt, argill-earthy text in pt

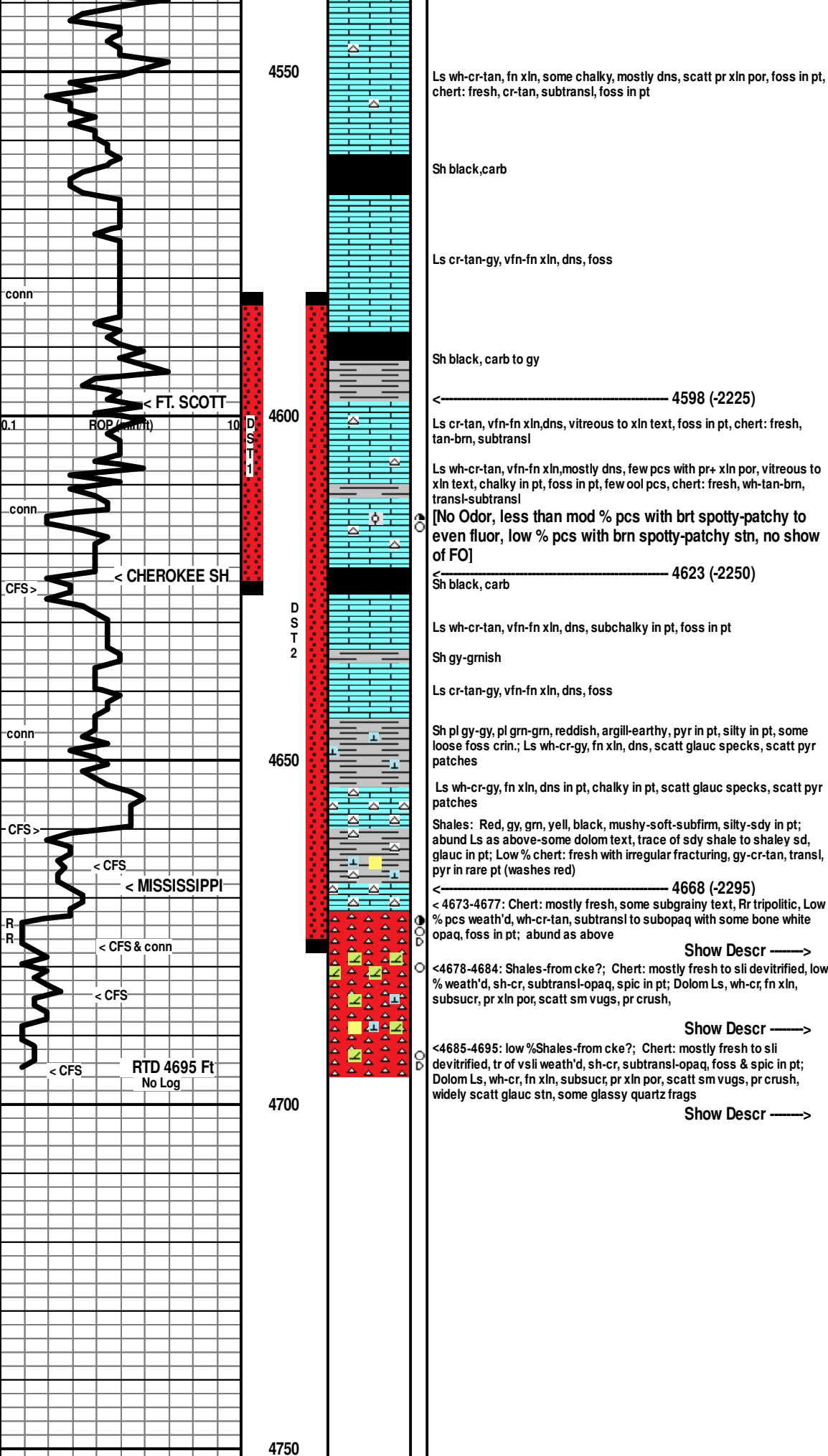
<----- 4528 (-2155)

Ls wh-cr-tan, fn xln, some chalky, mostly dns, scatt pr xln por, foss in pt, chert: fresh, wh, subopaq, foss in pt

7:00 AM, November 25, 2018

Mud Check, Drilg @ 4415':

Vis	Wt	WL	LCM	PV	YP
56	9.2	10.4	2	18	19
Chl	Hd	pH	Solids		
9000	20	10.5	5.9		



DST #1: 4583-4625 (Ft. Scott)

Times: 15-30-15-out

Initial Open: V Wk Surface Blow throughout

Final Open: No Blow, flush tool-no help

Rec: 10' mud

IHP: 2339 FHP: 2310

IFP: 19-21 FFP: 20-22

ISIP: 42 FSIP: NA

BHT: 111°F

Pipe Strap @ 4625':
1.16 ft long!

7:00 AM, November 26, 2018

Mud Check, Short Trip @ 4625':

Vis Wt WL LCM PV YP

68 9.2 12.0 1 20 33

Chl Hd pH Solids

10000 160 10.5 5.8

7:00 AM, November 27, 2018

[4673-4677: No Odor, Low % pcs with mod spotty patchy fluor, with dk brn stn & black resid/gils stn. Where stn'd shows of black gils oil, dk brn dead-deadish oil, and some pcs with trace to vsli show of lt brn FO]

7:00 AM, November 28, 2018

[4678-4684: No Odor, V low % pcs with patchy d fluor, Rr pcs with dk brn-blk resid stn, a few pcs with trace show of brn FO]

[4685-4695: No Odor, Few pcs total with dull spe fluor & scant spotty blk to dk stn, NSFO]

RTD 4695 Ft, at 10:45 AM,
November 28, 2018

DST #2: 4583-4677 (Mississippi)

Times: 15-30-60-90

Initial Open: Wk Blow, built to 2" i.b.

Final Open: Wk Blow, built to 1" i.b.

Rec: 30' mud

IHP: 2341 FHP: 2285

IFP: 33-38 FFP: 38-44

ISIP: 1037 FSIP: 1166

BHT: 111°F

Mud Check, CTCH after DST2 @ 4677':

Vis Wt WL LCM PV YP

65 9.1 13.6 1 34 19

Chl Hd pH Solids

8500 100 10.0 5.3

										4800			
0.1	ROP (min/ft)								10				