KOLAR Document ID: 1349689

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 # 6569
Name: Carmen Schmitt, Inc.
Address 1: PO BOX 47
Address 2:
City: GREAT BEND State: KS Zip: 67530 + 0047
Contact Person: Matt Suchy
Phone: (620) 793-5100
CONTRACTOR: License # 30606
Name: Murfin Drilling Co., Inc.
Wellsite Geologist: Brad Rine
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 #:

3/10/2017 Spud Date or Recompletion Date
3/18/2017 Date Reached TD
3/19/2017 Completion Date or Recompletion Date

API No.: 15-057-20978-00-00
Spot Description:
W2 - NE - NE - NE Sec. 11 Twp. 25 S. R. 22 ☐ East ☑ West
330 Feet from ☑ North / ☐ South Line of Section
450 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☑ NE ☐ NW ☐ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Ford
Lease Name: TEMAAT Well #: 1-11
Field Name:
Producing Formation: none
Elevation: Ground: 2383 Kelly Bushing: 2388
Total Vertical Depth: 4870 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 218 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: 14600 ppm Fluid volume: 800 bbls
Dewatering method used: Evaporated
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: 03/28/2017
☑ **Confidential Release Date:** 03/28/2019
☐ **Wireline Log Received** ☐ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** Karen Ritter **Date:** 03/28/2017

Operator Name: Carmen Schmitt, Inc. Lease Name: TEMAAT Well #: 1-11

Sec. 11 Twp. 25 S. R. 22 ☐ East ☑ West County: Ford

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

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

Drill Stem Tests Taken *(Attach Additional Sheets)*	☑ Yes	☐ No	☐ Log	Formation (Top), Depth and Datum	☑ Sample
Samples Sent to Geological Survey	☐ Yes	☑ No	Name	Top	Datum
Cores Taken	☐ Yes	☑ No	Attached	Attached	Attached
Electric Log Run	☐ Yes	☑ No			
Geologist Report / Mud Logs	☐ Yes	☐ No			
List All E. Logs Run:					

CASING RECORD ☑ New ☐ 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
Surface	12.25	8.625	23	218	60/40 Poz	175	3%cc,2%gel

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate ☐ Protect Casing ☐ Plug Back TD ☐ 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: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	Top / Bottom

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*

TUBING RECORD: Size: Set At: Packer At:

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Carmen Schmitt, Inc.
Well Name	TEMAAT 1-11
Doc ID	1349689

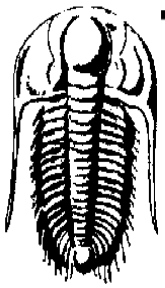
Tops

Name	Top	Datum
Anhydrite	1509	879
Heebner sh	4042	-1654
Toronto	4058	-1670
Brown Lime	4137	-1749
Lansing	4145	-1757
B/KC	4498	-2110
Marmaton	4504	-2116
Pawnee	4640	-2252
Ft.Scott	4686	-2298
Cherokee	4713	-2325
Mississippian	4770	-2382

Form	ACO1 - Well Completion
Operator	Carmen Schmitt, Inc.
Well Name	TEMAAT 1-11
Doc ID	1349689

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	218	60/40 Poz	175	3%cc,2%gel



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc**

PO Box 47
Great Bend KS 67530-0047

ATTN: Carmen Schmitt , Bra

Temaat #1-11

11-25s-22w Ford,KS

Start Date: 2017.03.15 @ 13:40:06
End Date: 2017.03.15 @ 18:50:00
Job Ticket #: 64128 DST #: 1

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

Printed: 2017.03.17 @ 16:30:20

DRILL STEM TEST REPORT

Carmen Schmitt Inc

PO Box 47
Great Bend KS 67530-0047

ATTN: Carmen Schmitt , Bra

11-25s-22w Ford,KS

Temaat #1-11

Job Ticket: 64128 **DST#: 1**

Test Start: 2017.03.15 @ 13:40:06

GENERAL INFORMATION:

Formation: **Ft. Scott - Cherokee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:57:01
Time Test Ended: 18:50:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Ray Schw ager
Unit No: 77

Interval: 4669.00 ft (KB) To 4750.00 ft (KB) (TVD)
Total Depth: 4750.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

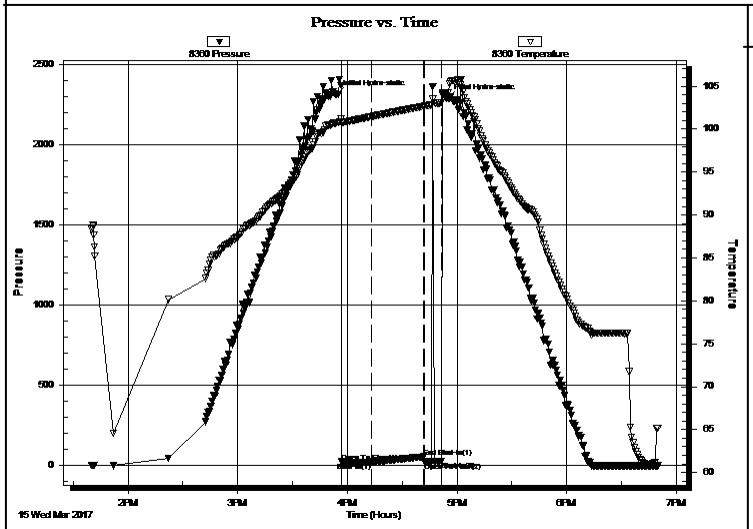
Reference Elevations: 2388.00 ft (KB)
2383.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8360 **Inside**

Press@RunDepth: 22.54 psig @ 4680.00 ft (KB)
Start Date: 2017.03.15 End Date: 2017.03.15
Start Time: 13:40:06 End Time: 18:50:00

Capacity: 8000.00 psig
Last Calib.: 2017.03.15
Time On Btm: 2017.03.15 @ 15:54:16
Time Off Btm: 2017.03.15 @ 16:54:31

TEST COMMENT: 15-IFP-w k surface bl thru-out
30-ISIP-no bl
15-FFP-no bl , flushed tool , pull tool



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2316.17	100.74	Initial Hydro-static
3	22.92	100.75	Open To Flow (1)
19	22.54	101.45	Shut-In(1)
48	54.71	102.65	End Shut-In(1)
48	23.16	102.66	Open To Flow (2)
57	28.32	103.06	Shut-In(2)
61	2287.62	104.26	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

Gas Rates

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

DRILL STEM TEST REPORT

Carmen Schmitt Inc

PO Box 47
Great Bend KS 67530-0047

ATTN: Carmen Schmitt , Bra

11-25s-22w Ford,KS

Temaat #1-11

Job Ticket: 64128 **DST#: 1**

Test Start: 2017.03.15 @ 13:40:06

GENERAL INFORMATION:

Formation: **Ft. Scott - Cherokee**
Deviated: No Whipstock: ft (KB)
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Time Test Ended: 18:50:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Ray Schw ager
Unit No: 77

Interval: 4669.00 ft (KB) To 4750.00 ft (KB) (TVD)
Total Depth: 4750.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

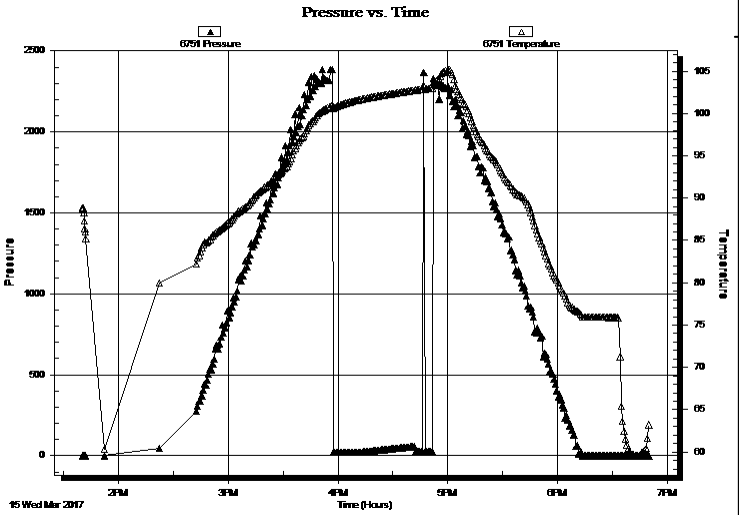
Reference Elevations: 2388.00 ft (KB)
2383.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6751 **Outside**

Press@RunDepth: psig @ 4680.00 ft (KB)
Start Date: 2017.03.15 End Date: 2017.03.15
Start Time: 13:40:15 End Time: 18:49:54

Capacity: 8000.00 psig
Last Calib.: 2017.03.15
Time On Btm:
Time Off Btm:

TEST COMMENT: 15-IFP-w k surface bl thru-out
30-ISIP-no bl
15-FFP-no bl , flushed tool , pull tool



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt Inc

PO Box 47
Great Bend KS 67530-0047

ATTN: Carmen Schmitt , Bra

11-25s-22w Ford,KS

Temaat #1-11

Job Ticket: 64128 **DST#: 1**

Test Start: 2017.03.15 @ 13:40:06

Tool Information

Drill Pipe:	Length:	4310.00 ft	Diameter:	3.80 inches	Volume:	60.46 bbl	Tool Weight:		2200.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:		25000.00 lb
Drill Collar:	Length:	360.00 ft	Diameter:	2.25 inches	Volume:	1.77 bbl	Weight to Pull Loose:		75000.00 lb
					Total Volume:	62.23 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		25.00 ft					String Weight:	Initial	62000.00 lb
Depth to Top Packer:		4669.00 ft						Final	62000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		81.00 ft							
Tool Length:		105.00 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			4646.00		
Shut In Tool	5.00			4651.00		
Hydraulic tool	5.00			4656.00		
Safety Joint	3.00			4659.00		
Packer	5.00			4664.00	24.00	Bottom Of Top Packer
Packer	5.00			4669.00		
Stubb	1.00			4670.00		
Perforations	10.00			4680.00		
Recorder	0.00	8360	Inside	4680.00		
Recorder	0.00	6751	Outside	4680.00		
Blank Spacing	65.00			4745.00		
Bullnose	5.00			4750.00	81.00	Bottom Packers & Anchor
Total Tool Length:	**105.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt Inc

PO Box 47
Great Bend KS 67530-0047

ATTN: Carmen Schmitt , Bra

11-25s-22w Ford,KS

Temaat #1-11

Job Ticket: 64128 **DST#: 1**

Test Start: 2017.03.15 @ 13:40:06

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:	52.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.57 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3600.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

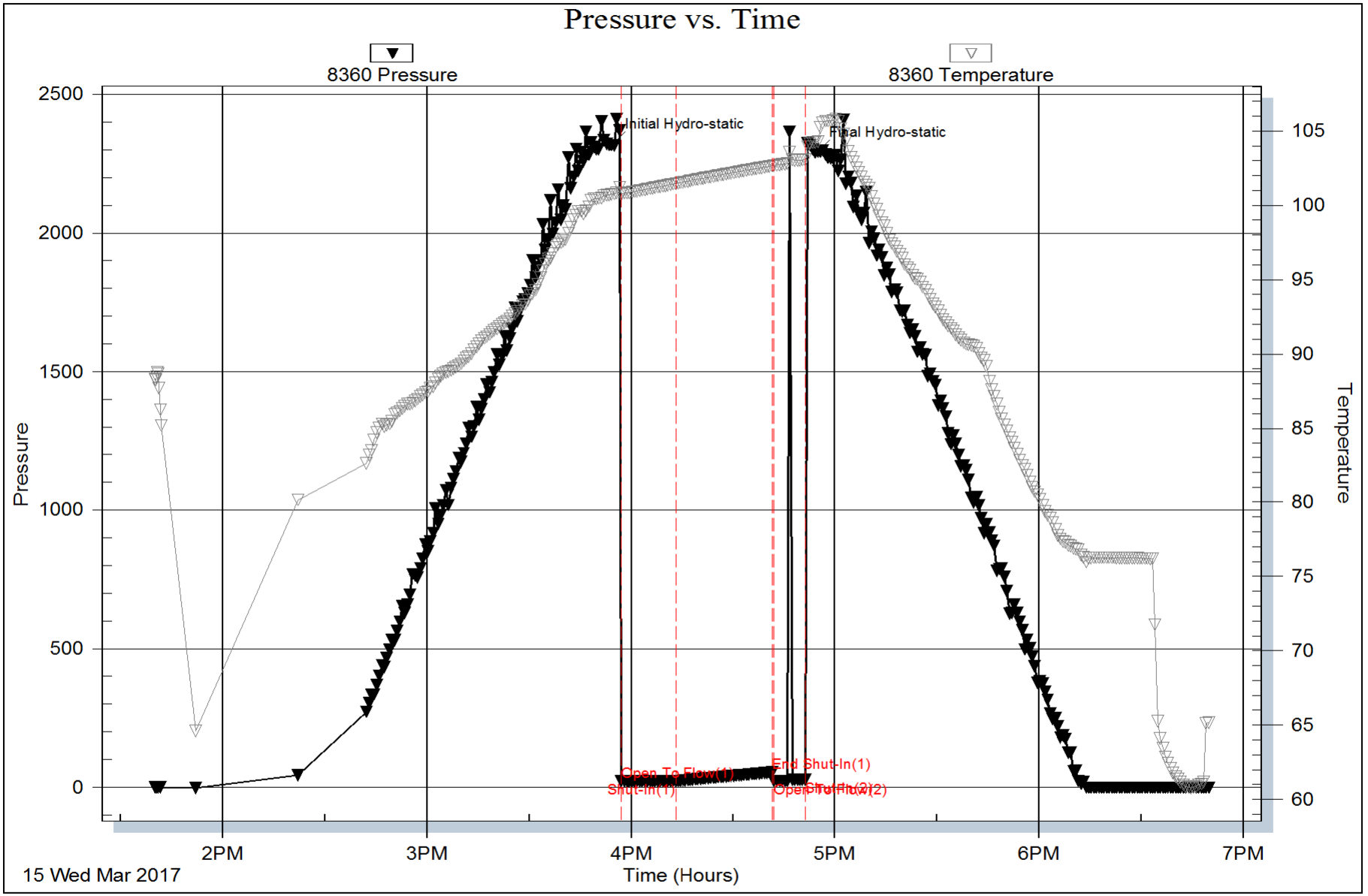
Recovery Table

Length ft	Description	Volume bbl
5.00	Mud	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

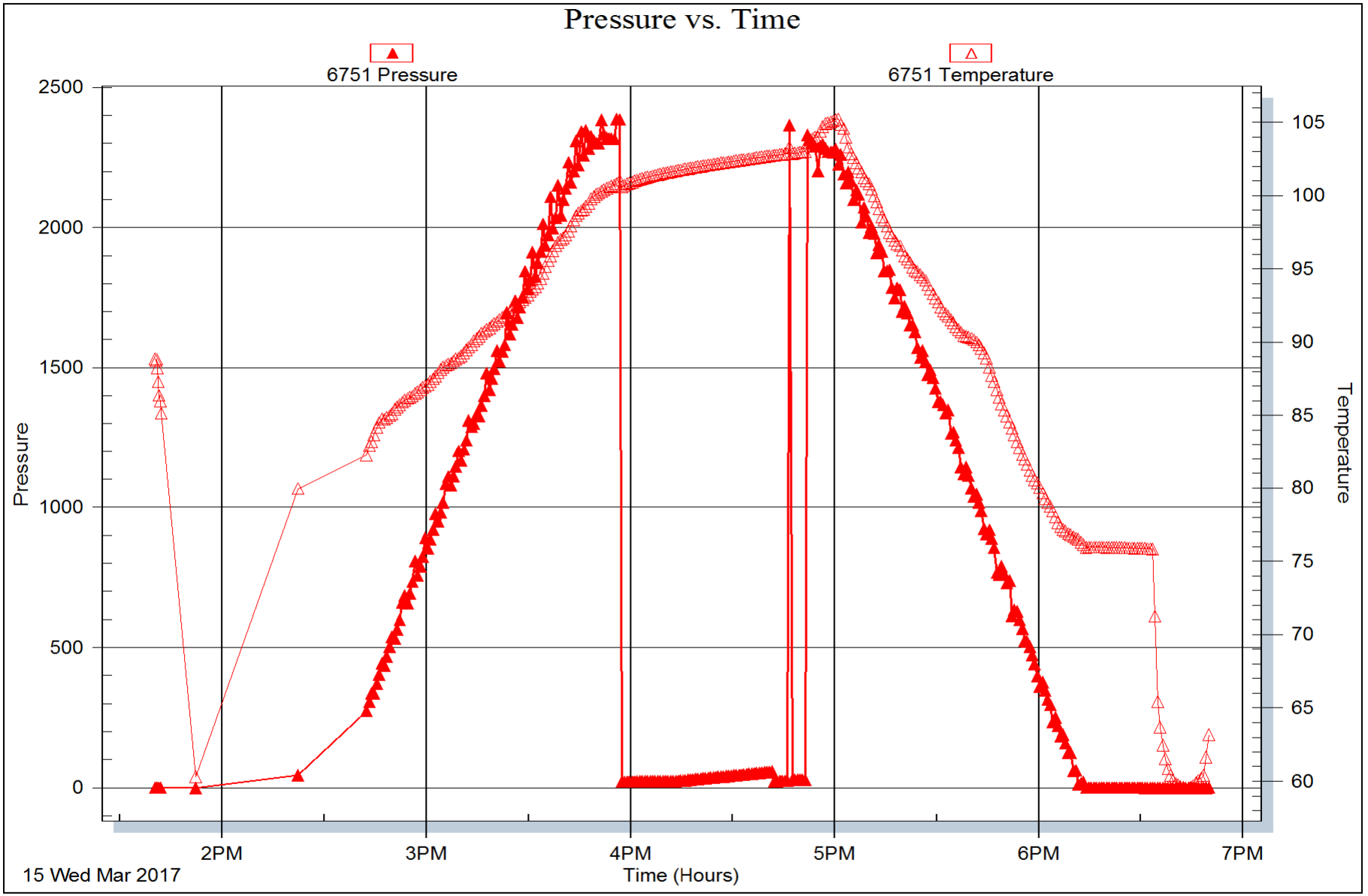
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8360 **Inside** Carmen Schmitt Inc Temaat #1-11 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 64128 Printed: 2017.03.17 @ 16:30:21

Serial #: 6751 **Outside** Carmen Schmitt Inc Temaat #1-11 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 64128 Printed: 2017.03.17 @ 16:30:21

DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc**

PO Box 47
Great Bend KS 67530-0047

ATTN: Carmen Schmitt , Bra

Temaat #1-11

11-25s-22w Ford,KS

Start Date: 2017.03.16 @ 05:10:42
End Date: 2017.03.16 @ 12:09:36
Job Ticket #: 64129 DST #: 2

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

Printed: 2017.03.17 @ 16:27:50

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Carmen Schmitt Inc

PO Box 47
Great Bend KS 67530-0047

ATTN: Carmen Schmitt , Bra

11-25s-22w Ford,KS

Temaat #1-11

Job Ticket: 64129 **DST#: 2**

Test Start: 2017.03.16 @ 05:10:42

GENERAL INFORMATION:

Formation: **Miss**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:32:22
Time Test Ended: 12:09:36

Test Type: Conventional Bottom Hole (Reset)
Tester: Ray Schw ager
Unit No: 77

Interval: 4747.00 ft (KB) To 4775.00 ft (KB) (TVD)
Total Depth: 4775.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

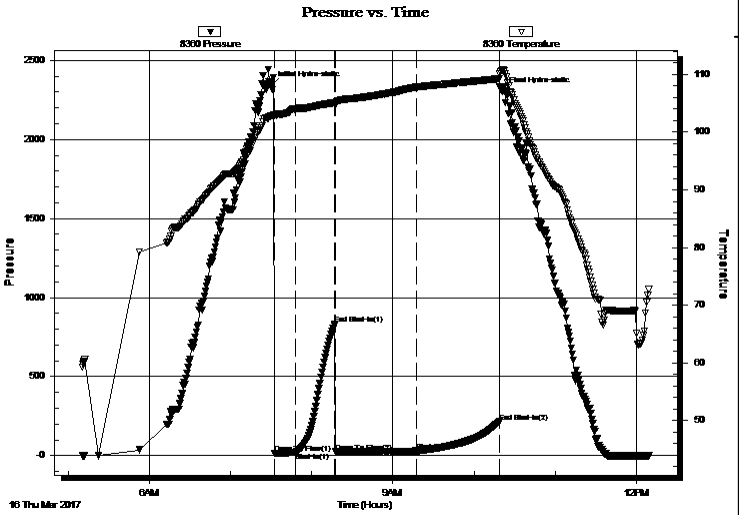
Reference Elevations: 2388.00 ft (KB)
2383.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8360 **Inside**

Press@RunDepth: 30.05 psig @ 4748.00 ft (KB)
Start Date: 2017.03.16 End Date: 2017.03.16
Start Time: 05:10:42 End Time: 12:09:36

Capacity: 8000.00 psig
Last Calib.: 2017.03.16
Time On Btm: 2017.03.16 @ 07:30:22
Time Off Btm: 2017.03.16 @ 10:20:51

TEST COMMENT: 15-IFP-w k bl thru-out , surface to 1/4" bl
30-ISIP-no bl
60-FFP-no bl 1st 15 min, then surface bl thru-out
60-FSIP-no bl



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2341.22	102.83	Initial Hydro-static
2	15.48	102.80	Open To Flow (1)
18	19.67	103.96	Shut-In(1)
47	833.77	105.12	End Shut-In(1)
48	22.16	105.01	Open To Flow (2)
107	30.05	107.81	Shut-In(2)
169	214.09	109.28	End Shut-In(2)
171	2303.93	110.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	HOCM 35%O65%M	0.07

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Carmen Schmitt Inc

PO Box 47
Great Bend KS 67530-0047

ATTN: Carmen Schmitt , Bra

11-25s-22w Ford,KS

Temaat #1-11

Job Ticket: 64129 **DST#: 2**

Test Start: 2017.03.16 @ 05:10:42

GENERAL INFORMATION:

Formation: **Miss**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:32:22
Time Test Ended: 12:09:36

Test Type: Conventional Bottom Hole (Reset)
Tester: Ray Schw ager
Unit No: 77

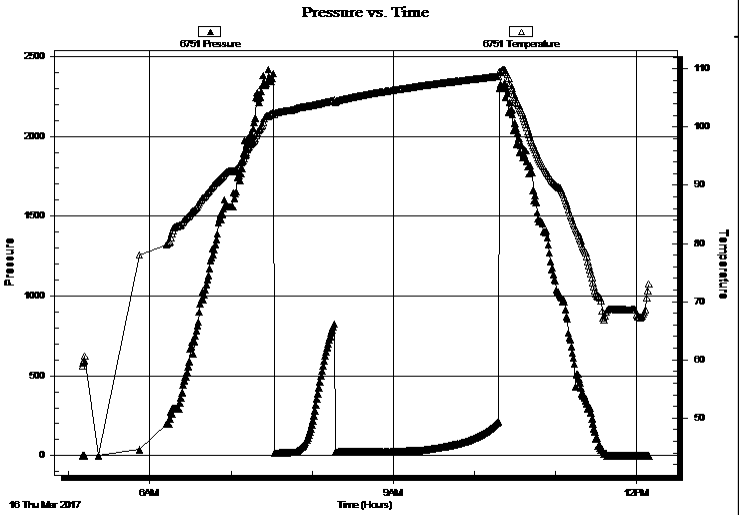
Interval: 4747.00 ft (KB) To 4775.00 ft (KB) (TVD)
Total Depth: 4775.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2388.00 ft (KB)
2383.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6751 **Outside**
Press@RunDepth: psig @ 4748.00 ft (KB)
Start Date: 2017.03.16 End Date: 2017.03.16
Start Time: 05:10:20 End Time: 12:09:14

Capacity: 8000.00 psig
Last Calib.: 2017.03.16
Time On Btm:
Time Off Btm:

TEST COMMENT: 15-IFP-w k bl thru-out , surface to 1/4" bl
30-ISIP-no bl
60-FFP-no bl 1st 15 min, then surface bl thru-out
60-FSIP-no bl



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
15.00	HOCM 35%O65%M	0.07

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt Inc

PO Box 47
Great Bend KS 67530-0047

ATTN: Carmen Schmitt , Bra

11-25s-22w Ford,KS

Temaat #1-11

Job Ticket: 64129 **DST#: 2**

Test Start: 2017.03.16 @ 05:10:42

Tool Information

Drill Pipe:	Length:	4300.00 ft	Diameter:	3.80 inches	Volume:	60.32 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	450.00 ft	Diameter:	2.25 inches	Volume:	2.21 bbl	
					Total Volume:	62.53 bbl	

Drill Pipe Above KB:	27.00 ft
Depth to Top Packer:	4747.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	28.00 ft
Tool Length:	52.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:		2200.00 lb
Weight set on Packer:		25000.00 lb
Weight to Pull Loose:		75000.00 lb
Tool Chased		0.00 ft
String Weight:	Initial	63000.00 lb
	Final	63000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4724.00		
Shut In Tool	5.00			4729.00		
Hydraulic tool	5.00			4734.00		
Safety Joint	3.00			4737.00		
Packer	5.00			4742.00	24.00	Bottom Of Top Packer
Packer	5.00			4747.00		
Stubb	1.00			4748.00		
Recorder	0.00	8360	Inside	4748.00		
Recorder	0.00	6751	Outside	4748.00		
Perforations	24.00			4772.00		
Bullnose	3.00			4775.00	28.00	Bottom Packers & Anchor
Total Tool Length:	**52.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt Inc

PO Box 47
Great Bend KS 67530-0047

ATTN: Carmen Schmitt , Bra

11-25s-22w Ford,KS

Temaat #1-11

Job Ticket: 64129 **DST#: 2**

Test Start: 2017.03.16 @ 05:10:42

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:	52.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.58 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3600.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

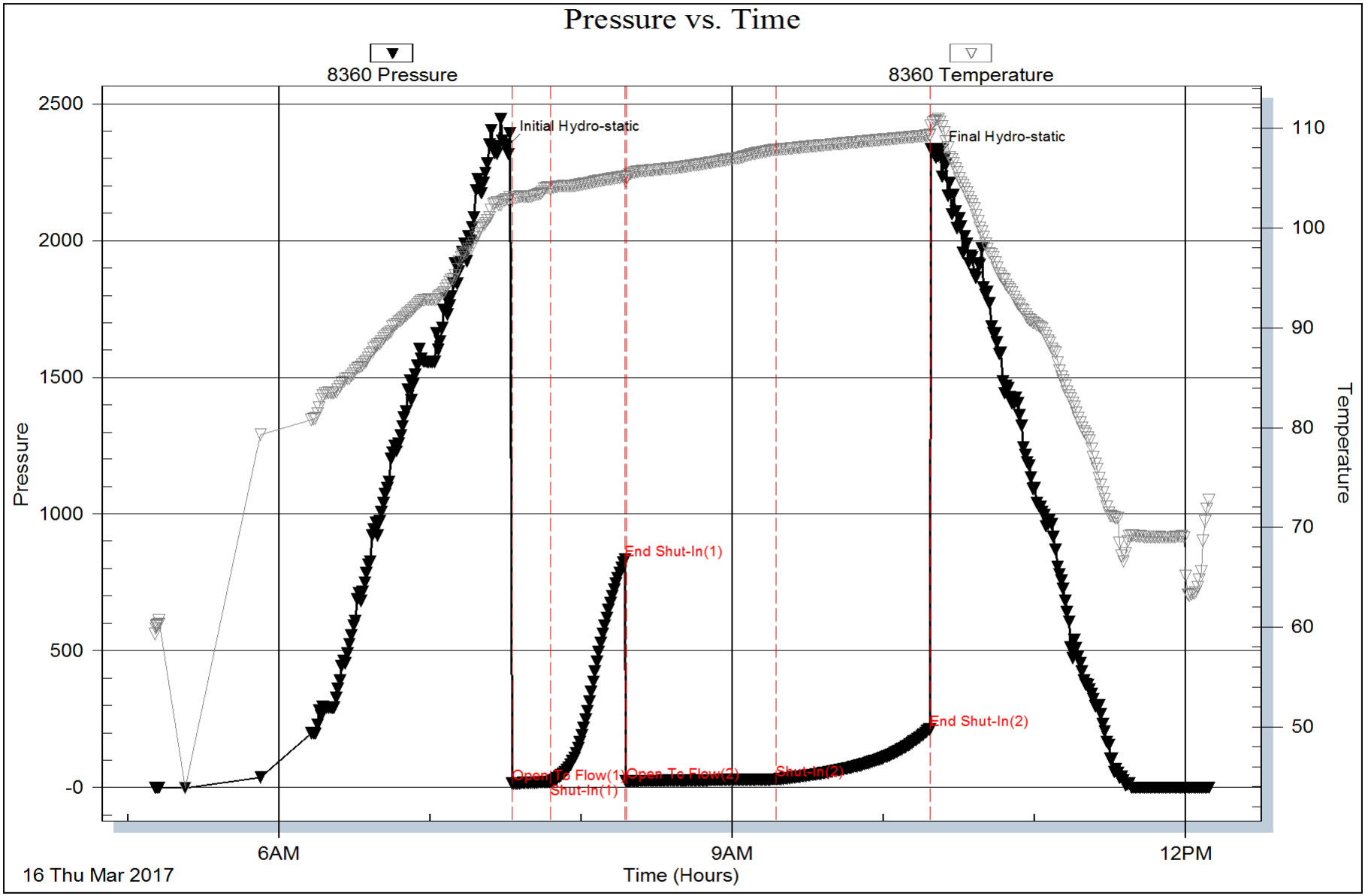
Recovery Table

Length ft	Description	Volume bbl
15.00	HOCM 35%O65%M	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

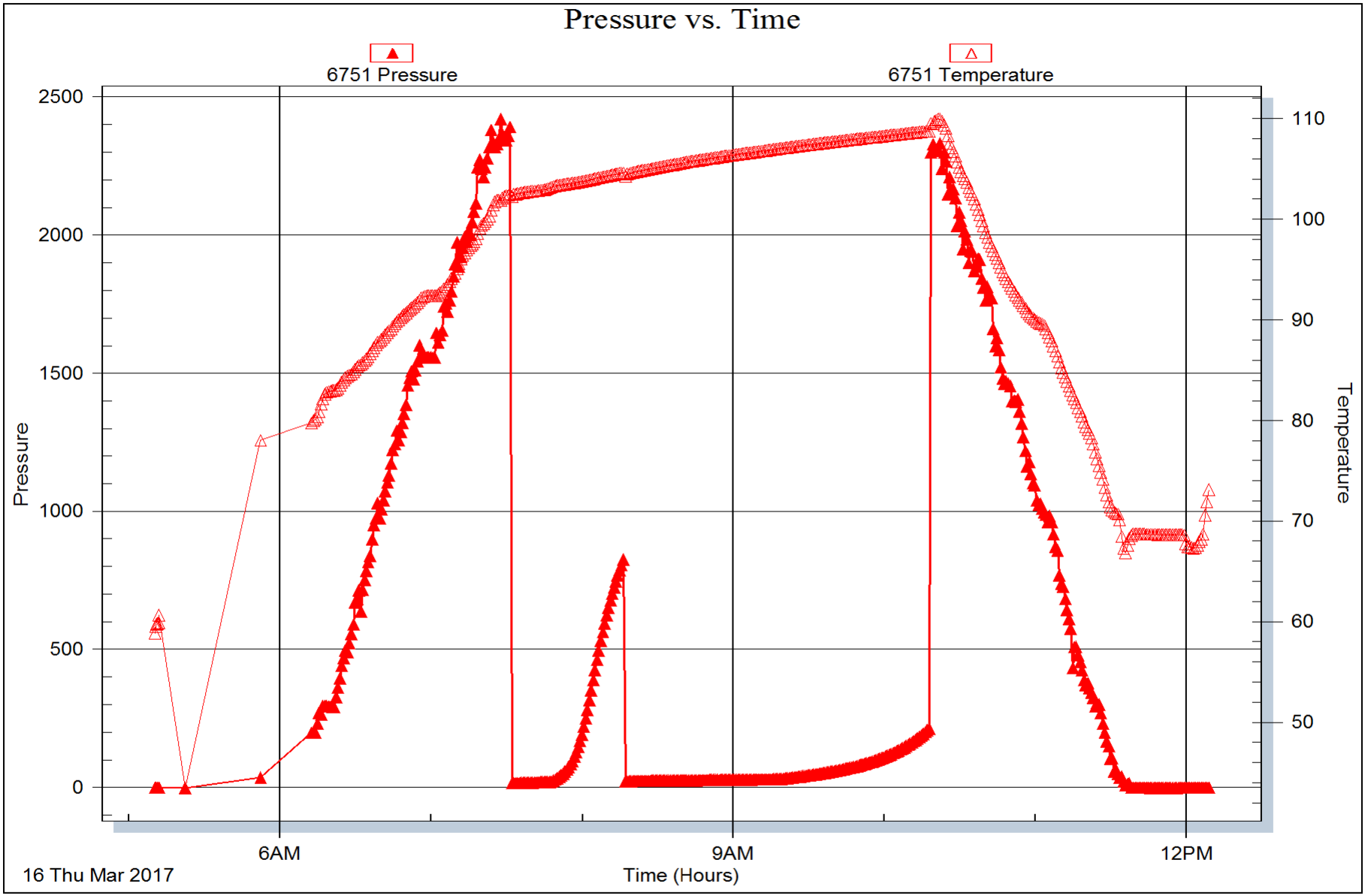
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8360 **Inside** Carmen Schmitt Inc Temaat #1-11 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 64129 Printed: 2017.03.17 @ 16:27:51

Serial #: 6751 **Outside** Carmen Schmitt Inc Temaat #1-11 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 64129 Printed: 2017.03.17 @ 16:27:51

DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc**

PO Box 47
Great Bend KS 67530-0047

ATTN: Carmen Schmitt , Bra

Temaat #1-11

11-25s-22w Ford,KS

Start Date: 2017.03.16 @ 18:50:26
End Date: 2017.03.17 @ 00:35:20
Job Ticket #: 64130 DST #: 3

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

Printed: 2017.03.17 @ 16:07:03

DRILL STEM TEST REPORT

Carmen Schmitt Inc

PO Box 47
Great Bend KS 67530-0047

ATTN: Carmen Schmitt , Bra

11-25s-22w Ford,KS

Temaat #1-11

Job Ticket: 64130 **DST#: 3**

Test Start: 2017.03.16 @ 18:50:26

GENERAL INFORMATION:

Formation: **Miss**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:02:21
Time Test Ended: 00:35:20

Test Type: Conventional Bottom Hole (Reset)
Tester: Ray Schw ager
Unit No: 77

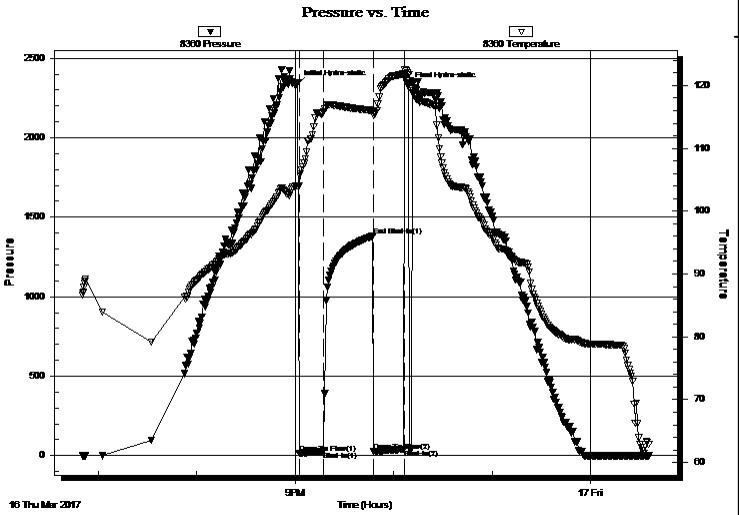
Interval: 4775.00 ft (KB) To 4780.00 ft (KB) (TVD)
Total Depth: 4780.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2388.00 ft (KB)
2383.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8360 **Inside**
Press@RunDepth: 25.60 psig @ 4776.00 ft (KB)
Start Date: 2017.03.16 End Date: 2017.03.17
Start Time: 18:50:26 End Time: 00:35:20

Capacity: 8000.00 psig
Last Calib.: 2017.03.16
Time On Btm: 2017.03.16 @ 21:01:06
Time Off Btm: 2017.03.16 @ 22:08:51

TEST COMMENT: 15-IFP-w k bl thru-out surface to 1/2" bl
30-ISIP-no bl
20-FFP-no bl
pulled tool



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2334.33	104.01	Initial Hydro-static
2	15.26	104.08	Open To Flow (1)
16	25.60	115.77	Shut-In(1)
47	1382.26	116.02	End Shut-In(1)
47	26.80	115.27	Open To Flow (2)
66	40.33	121.85	Shut-In(2)
68	2324.16	121.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	CO	0.00
65.00	MW 40%M60%W w /slight show of oil	0.32

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Carmen Schmitt Inc

PO Box 47
Great Bend KS 67530-0047

ATTN: Carmen Schmitt , Bra

11-25s-22w Ford,KS

Temaat #1-11

Job Ticket: 64130 **DST#: 3**

Test Start: 2017.03.16 @ 18:50:26

GENERAL INFORMATION:

Formation: **Miss**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:02:21
Time Test Ended: 00:35:20

Test Type: Conventional Bottom Hole (Reset)
Tester: Ray Schw ager
Unit No: 77

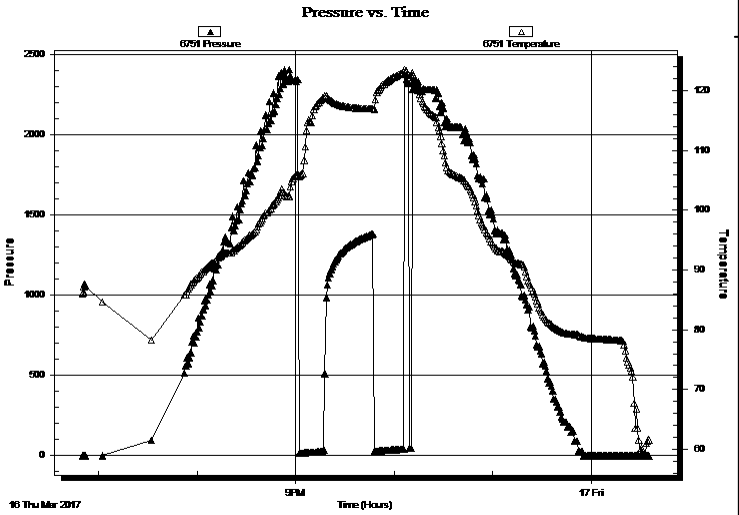
Interval: 4775.00 ft (KB) To 4780.00 ft (KB) (TVD)
Total Depth: 4780.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2388.00 ft (KB)
2383.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6751 **Outside**
Press@RunDepth: psig @ 4776.00 ft (KB)
Start Date: 2017.03.16 End Date: 2017.03.17
Start Time: 18:50:11 End Time: 00:35:05

Capacity: 8000.00 psig
Last Calib.: 2017.03.16
Time On Btm:
Time Off Btm:

TEST COMMENT: 15-IFP-w k bl thru-out surface to 1/2" bl
30-ISIP-no bl
20-FFP-no bl
pulled tool



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
1.00	CO	0.00
65.00	MW 40%M60%W w /slight show of oil	0.32

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt Inc

PO Box 47
Great Bend KS 67530-0047

ATTN: Carmen Schmitt , Bra

11-25s-22w Ford,KS

Temaat #1-11

Job Ticket: 64130 **DST#: 3**

Test Start: 2017.03.16 @ 18:50:26

Tool Information

Drill Pipe:	Length:	4332.00 ft	Diameter:	3.80	inches	Volume:	60.77	bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00	inches	Volume:	0.00	bbl	
Drill Collar:	Length:	450.00 ft	Diameter:	2.25	inches	Volume:	2.21	bbl	
						Total Volume:	62.98	bbl	

Drill Pipe Above KB:	31.00 ft
Depth to Top Packer:	4775.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	5.00 ft
Tool Length:	29.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:		2200.00 lb
Weight set on Packer:		25000.00 lb
Weight to Pull Loose:		75000.00 lb
Tool Chased		0.00 ft
String Weight:	Initial	63000.00 lb
	Final	63000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4752.00		
Shut In Tool	5.00			4757.00		
Hydraulic tool	5.00			4762.00		
Safety Joint	3.00			4765.00		
Packer	5.00			4770.00	24.00	Bottom Of Top Packer
Packer	5.00			4775.00		
Stubb	1.00			4776.00		
Recorder	0.00	8360	Inside	4776.00		
Recorder	0.00	6751	Outside	4776.00		
Perforations	1.00			4777.00		
Bullnose	3.00			4780.00	5.00	Bottom Packers & Anchor
Total Tool Length:	**29.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt Inc

PO Box 47
Great Bend KS 67530-0047

ATTN: Carmen Schmitt , Bra

11-25s-22w Ford,KS

Temaat #1-11

Job Ticket: 64130 **DST#: 3**

Test Start: 2017.03.16 @ 18:50:26

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:	28000 ppm
Viscosity:	59.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.37 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	5300.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	CO	0.005
65.00	MW 40%M60%W w/slight show of oil	0.320

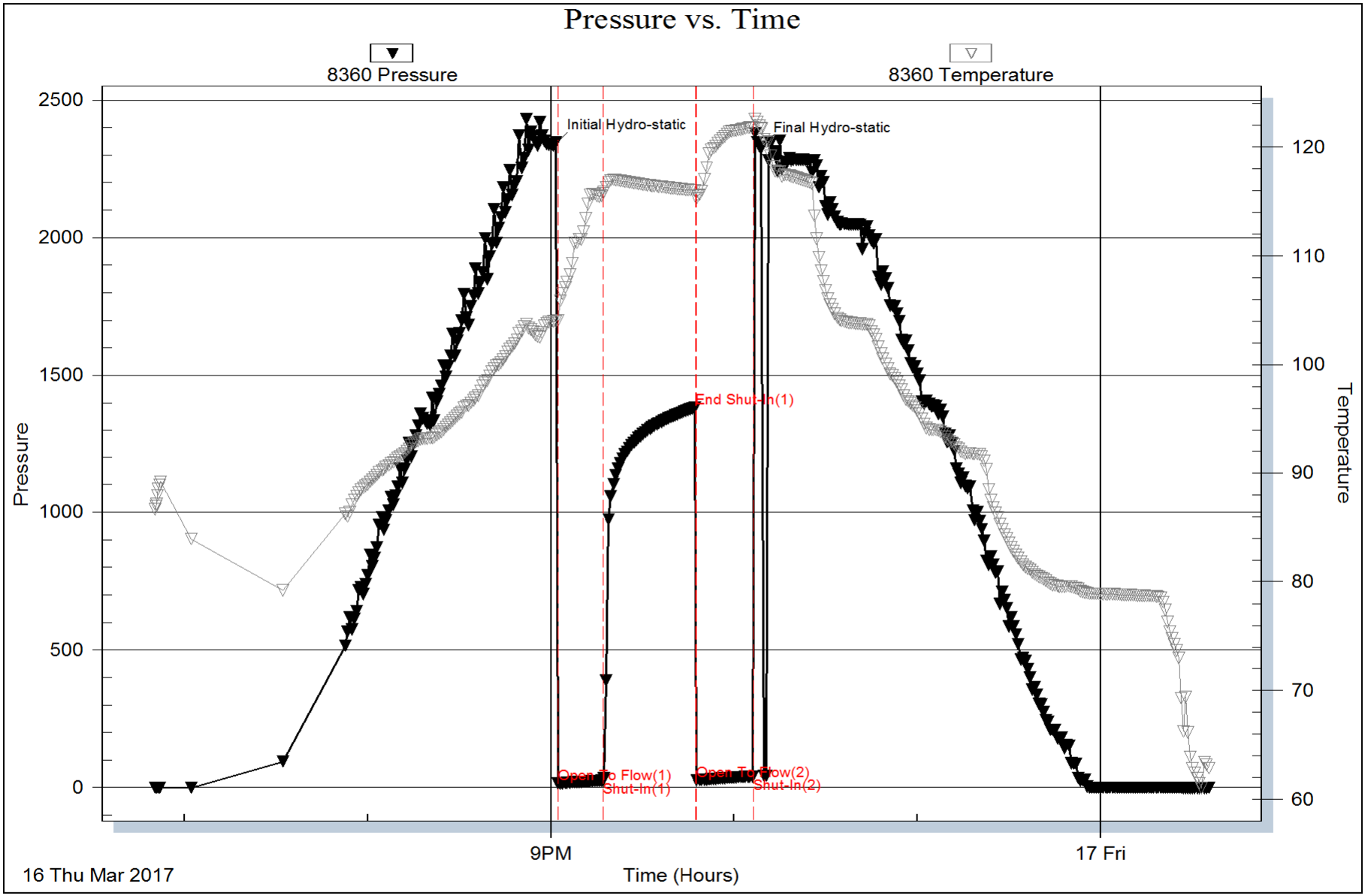
Total Length: 66.00 ft Total Volume: 0.325 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

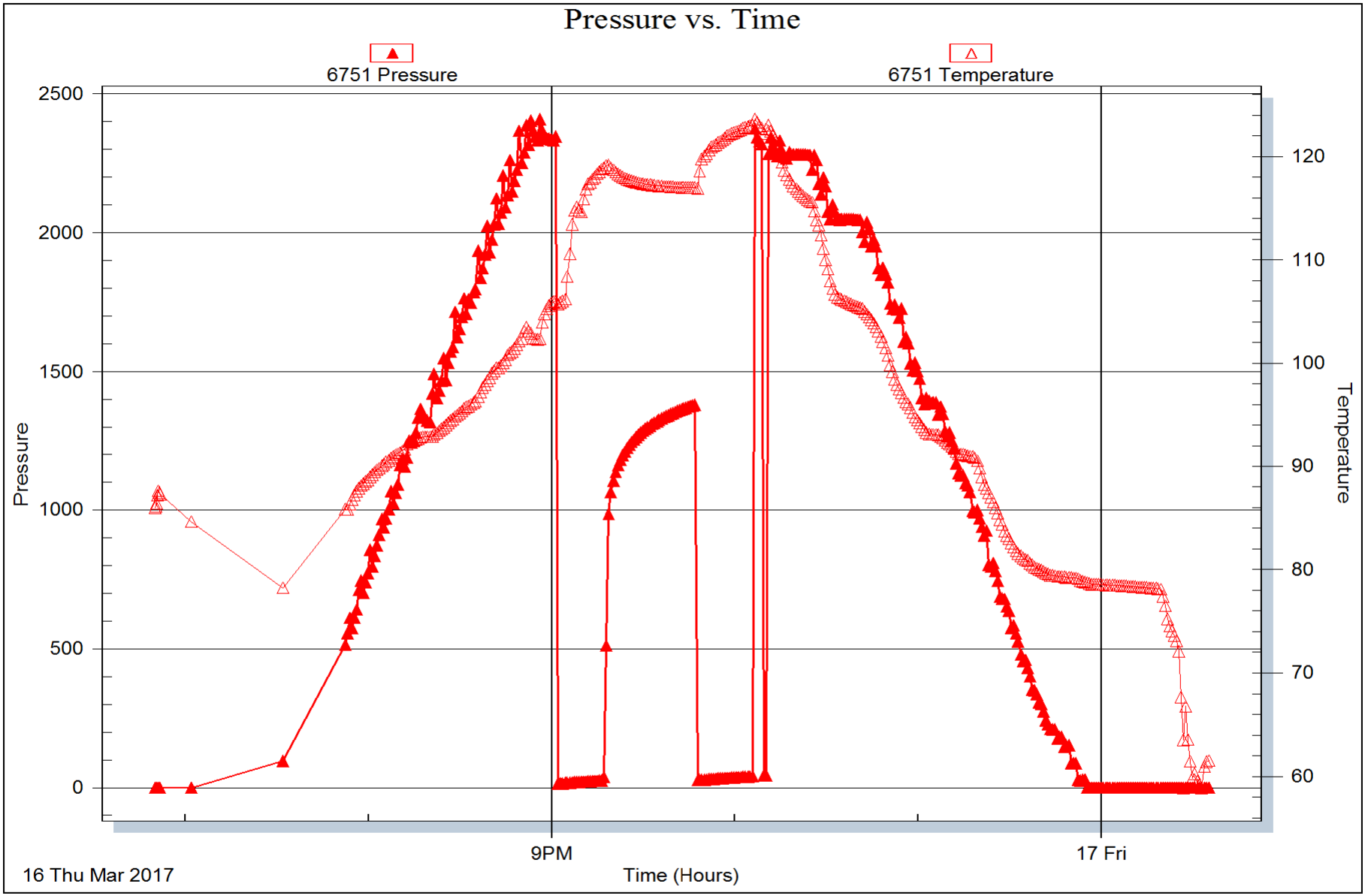
Recovery Comments: RW .27@60F

Serial #: 8360 **Inside** Carmen Schmitt Inc Temaat #1-11 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 64130 Printed: 2017.03.17 @ 16:07:04

Serial #: 6751 **Outside** Carmen Schmitt Inc Temaat #1-11 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 64130 Printed: 2017.03.17 @ 16:07:04

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 64128

Well Name & No. TEMPAT #1-11 Test No. 1 Date 3-15-17

Company CARMEN SCHMITT INC Elevation 2388 KB 2383 GL

Address PO BOX 47 GREAT BEND, KS 67530-0047

Co. Rep / Geo. BRAD RINE Rig MURFIN RIG 16

Location: Sec. 11 Twp. 25S Rge. 22W Co. FORD State KS

Interval Tested 4669-4750 Zone Tested FT. SCOTT, CHER

Anchor Length 81 Drill Pipe Run 4310 Mud Wt. 9.2

Top Packer Depth 4664 Drill Collars Run 360 Vis 52

Bottom Packer Depth 4669 Wt. Pipe Run — WL 7.6

Total Depth 4750 Chlorides 3600 ppm System LCM 1#

Blow Description IFP - WEAK SURFACE BLOW THRU-OUT

ISIP - NO BLOW

FFP - NO BLOW, FLUSHED TOOL, GOT SURGE

PULLED TOOL

Rec 5	Feet of MUD	%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	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 103 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic	2316	☑ Test	1150	T-On Location	1145
(B) First Initial Flow	22	☐ Jars		T-Started	1340
(C) First Final Flow	22	☑ Safety Joint	75	T-Open	1600
(D) Initial Shut-In	54	☐ Circ Sub		T-Pulled	1655
(E) Second Initial Flow	23	☐ Hourly Standby		T-Out	1850
(F) Second Final Flow	28	☑ Mileage	130 RT 130rt 97.50	Comments	
(G) Final Shut-In	—	☐ Sampler			
(H) Final Hydrostatic	2287	☐ Straddle		☐ Ruined Shale Packer	
		☐ Shale Packer		☐ Ruined Packer	
Initial Open	15	☐ Extra Packer		☐ Extra Copies	
Initial Shut-In	30	☐ Extra Recorder		Sub Total	0
Final Flow	10	☐ Day Standby		Total	1322.50
Final Shut-In	OUT	☐ Accessibility		MP/DST Disc't	
		Sub Total	1322.50		

Approved By BRAD RINE Our Representative RAY SCHWAGER THANK YOU

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.

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 64129

Well Name & No. YEMAAT #1-11 Test No. 2 Date 3-16-12

Company CARMEN SCHMITT INC Elevation 2388 KB 2383 GL

Address PO Box 47 GREAT BEND, KS 67530-0047

Co. Rep / Geo. BRAD RINE Rig MURFIN RIG 16

Location: Sec. 11 Twp. 25 S Rge. 22 W Co. FORD State KS

Interval Tested 4747-4775 Zone Tested MISS

Anchor Length 28 Drill Pipe Run 4300 Mud Wt. 9.2

Top Packer Depth 4742 Drill Collars Run 450 Vis 52

Bottom Packer Depth 4747 Wt. Pipe Run — WL 7.6

Total Depth 4775 Chlorides 3600 ppm System LCM 1#

Blow Description IFP - WEAK BLOW THRU-OUT, SURFACE TO ¼" BLOW
ISIP - NO BLOW
FFP - NO BLOW 1ST 15 MIN, THEN SURFACE BLOW THRU-OUT
FSIP - NO BLOW

Rec 15	Feet of HOCM	%gas 35	%oil	%water 65	%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 15 BHT 109 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2341	☑ Test 1150	T-On Location 0400
(B) First Initial Flow 15	☐ Jars	T-Started 0510
(C) First Final Flow 19	☑ Safety Joint 75	T-Open 0735
(D) Initial Shut-In 833	☐ Circ Sub	T-Pulled 1020
(E) Second Initial Flow 22	☐ Hourly Standby	T-Out 1209
(F) Second Final Flow 30	☑ Mileage 190 RT 97.50	Comments
(G) Final Shut-In 214	☐ Sampler	
(H) Final Hydrostatic 2303	☐ Straddle	☐ Ruined Shale Packer
	☑ Shale Packer 250	☐ Ruined Packer
Initial Open 15	☐ Extra Packer	☐ Extra Copies
Initial Shut-In 30	☐ Extra Recorder	Sub Total 0
Final Flow 60	☐ Day Standby	Total 1572.50
Final Shut-In 60	☐ Accessibility	MP/DST Disc't
	Sub Total 1572.50	

Approved By Brad Rine Our Representative Ray Schwager Thank you

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 64130

Well Name & No. Lemaat #1-11 Test No. 3 Date 3-16-17

Company Carmen Schmitt Inc Elevation 2388 KB 2383 GL

Address PO Box 47 Great Bend, Ks 67530-0047

Co. Rep / Geo. Brad Rine Rig Murfin rig 16

Location: Sec. 11 Twp. 25 S Rge. 22 W Co. Ford State Ks

Interval Tested 4775-4780 Zone Tested Miss

Anchor Length 5 Drill Pipe Run 4332 Mud Wt. 9.2

Top Packer Depth 4770 Drill Collars Run 450 Vis 59

Bottom Packer Depth 4775 Wt. Pipe Run - WL 8.4

Total Depth 4780 Chlorides 5300 ppm System LCM 1#

Blow Description IFP - Weak Blow Thru-out, surface to ½" Blow

ISIP - No Blow

FFP - No Blow

~~FSIP~~ -

Rec 1	Feet of CO	%gas	%oil	%water	%mud
Rec 65	Feet of MW	%gas	%oil 60	%water 40	%mud
Rec	Feet of w/slight show of oil	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 66 BHT 122 Gravity - API RW .27 @ 60 °F Chlorides 28000 ppm

(A) Initial Hydrostatic 2334

(B) First Initial Flow 15

(C) First Final Flow 25

(D) Initial Shut-In 1382

(E) Second Initial Flow 26

(F) Second Final Flow 40

(G) Final Shut-In -

(H) Final Hydrostatic 2324

Initial Open 15

Initial Shut-In 30

Final Flow 20

Final Shut-In OW

☑ Test 1150

☐ Jars

☑ Safety Joint 75

☐ Circ Sub

☐ Hourly Standby

☑ Mileage 190RT 195

☐ Sampler

☐ Straddle

☐ Shale Packer

☐ Extra Packer

☐ Extra Recorder

☐ Day Standby

☐ Accessibility

Sub Total 1420

T-On Location 1745

T-Started 1850

T-Open 2105

T-Pulled 2210

T-Out 0035

Comments Loaded Tool 3-17-17 1630

☐ Ruined Shale Packer

☐ Ruined Packer

☐ Extra Copies

Sub Total 0

Total 1420

MP/DST Disc't

Approved By Brad Rine Our Representative Ray Schwager Thank you

M. Bradford Rine
Consulting Geologist

Certified; Licensed: AAPG/DPA, SIPES; Kansas, Wyoming
Mobile Phone: (316) 250-5941

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

Well Name:	**Temaat #1-11 - Carmen Schmitt, Inc.**		
API:	**15-057-20978-00-00**		
Location:	**W2-NE-NE-NE, Section 11-25S-22W**		
License Number:	**Ks 6569**	**Region:**	**Ford County, Kansas**
Spud Date:	**March 09, 2017**	**Drilling Completed:**	**March 17, 2017**
Surface Coordinates:	**330' FNL & 450' FEL, of Section**	**Results:**	**D & A**
Bottom Hole Coordinates:	**Vertcal Wellbore**	**Field:**	**Tasset**
Ground Elevation (ft):	**2383 Ft.**	**K.B. Elevation (ft):**	**2388 Ft.**
Logged Interval (ft):	**3800 Ft. To: 4870 Ft.**	**Total Depth (ft):**	**RTD 4870 Ft. LTD 4869 Ft.**
Formation:	**Mississippian at Total Depth**		
Type of Drilling Fluid:	**Chemical**		

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 #415
Wichita, Kansas 67202

Remarks

Based on sample observations and drill stem test results, it was the decision of the Operator, to plug and abandon the "Temaat #1-11", on March 18, 2017.

* Open hole log tools were run to Total Depth. While coming off bottom with first repeat pass, log tool became stuck in the hole at 4810 ft. After numerous efforts to retrieve log tool with the log line, a sidedoor fishing tool was run to retrieve fish. Log tool was recovered. The decision was made not to attempt to run open hole logs again! (For further details, see notes at bottom of geological report.)

Respectfully submitted,
M. Bradford Rine, geologist

Drilling Information

Rig: Murfin Drlg #16
Pump: Emsco D375 6 x 14
Drawworks: Cardwell Royale
Collars: 543' various diameters near 2-1/4 x 6-1/4
Drillpipe: 4-1/2" XH
Toolpusher: Andrew Dinkel

Mud: Mudco (Justin Whiting)
Gas Detector: None
Drill Stem Tests: Trilobite (Ray Schwager)
Logs: Pioneer (J. Henrickson)
Water: Municipal Fire Hydrant, Spearville
Fishing Tools: Kansas Fishing Tools
Fisherman: (Butch Dreiling)
Company Representatives:
Office: Carmen Schmitt
Field: Matt Suchy

Daily Drilling Status

Date:	Operations/Depth/Comments
03-09-17	MIRT, RU, Spud @ 0'
03-10-17	Drilling @ 630'
03-11-17	Drilling @ 2300'
03-12-17	Drilling @ 3010'
03-13-17	Drilling @ 3740'
03-14-17	Drilling @ 4380'
03-15-17	Drilling @ 4730'
03-16-17	Trip in Hole with DST #2 @ 4775'
03-17-17	Drilling @ 4815'
03-18-17	Prepare to plug @ 4870', plugging completed

.

* Formation Tops, provided by Operator!	Results:	D & A		(Well A)	D & A	(Well B)	Oil - P&A	* Comparisons are based on Sample Tops! (See comments below.)	
	Carmen Schmitt, Inc.			Gruss Petroleum		Okmar Oil			
	Temaat #1-11			Mages #1		Imel #1			
	330'FNL & 450'FEL			C-NW-NE		C-SE-NW			
	Sec. 11-25S-22W			Sec. 11-25S-22W		Sec. 11-25S-22W			
	KB 2388 Ft.			KB 2388 Ft.		KB 2406 Ft.		Well A	Well B
Formations	Sample	* E-Log	Datum	E-Log	Datum	E-Log	Datum	Comparison(s)	
Anhydrite	1509		879	1495	893	1513	893	-14	-14
Heebner Sh.	4042		-1654	4038	-1650	4044	-1638	-4	-16
Toronto	4058		-1670	4058	-1670	4063	-1657	0	-13
Brown Lime	4137		-1749	4134	-1746	4140	-1734	-3	-15
Lansing	4145		-1757	4143	-1755	4152	-1746	-2	-11
Lansing B Por	4194		-1806	4189	-1801	4194	-1788	-5	-18
Lansing H Por	4318		-1930	4321	-1933	4326	-1920	3	-10
Stark Sh	4414		-2026	4410	-2022	4416	-2010	-4	-16
B/Kansas City	4498		-2110	4494	-2106	4495	-2089	-4	-21
Marmaton	4504		-2116	4500	-2112	4503	-2097	-4	-19
Pawnee	4640		-2252	4634	-2246	4650	-2244	-6	-8
Ft. Scott	4686		-2298	4678	-2290	4687	-2281	-8	-17
Cherokee Sh.	4713		-2325	4704	-2316	4710	-2304	-9	-21
Mississippian	4770		-2382	4771	-2383	4774	-2368	1	-14
Total Depth	4870	4869	-2482	4823	-2435	4790	-2384	-47	-98

* Log tools were run to RTD, and LTD was established. However, Log tools became stuck, near 4810 ft. while logging up on first repeat pass. After retrieving log tools with a sidedoor fishing tool, the decision was made to, not attempt to run open hole tool again. Therefore, no open hole logs were run!

Casing Record, Bit Record, Deviation Surveys

CASING:

Conductor: None

Surface: Ran 5 jts 8-5/8" 23# new casing, set @ 218'. (Copeland) Cement with 175 sx 60/40 POZ 3% CC, 2% gel. Cement did circulate. Plug down @ 1:45 am, 03-10-17.

Production: Commenced plugging @ 10:00 AM 3/18/17. 50sx @ 1530', 80sx @ 780, 50sx @ 240, 20sx @ 60,30sx RH, 20sx MH. 250sx total of 60/40 Poz w/ 4%gel, 1/4 Floseal. Copeland Plug Down 12:00PM.

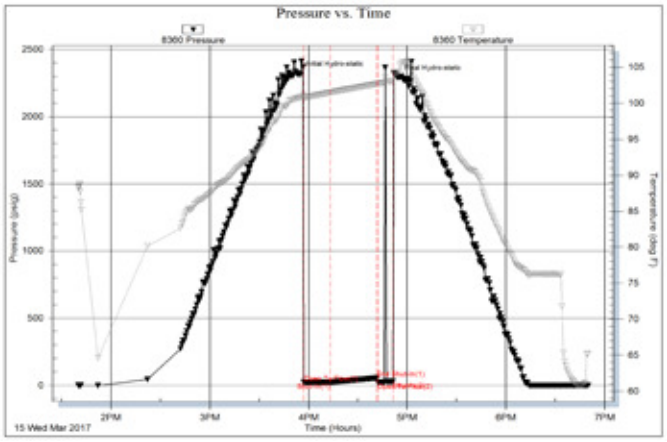
BITS:

No.	Size	Make	Model	Depth In	Depth Out	Hours
1	12-1/4	Varel	ERT RR	0	220	2.50
2	7-7/8	HTC	GX20C	220	4870	113.50

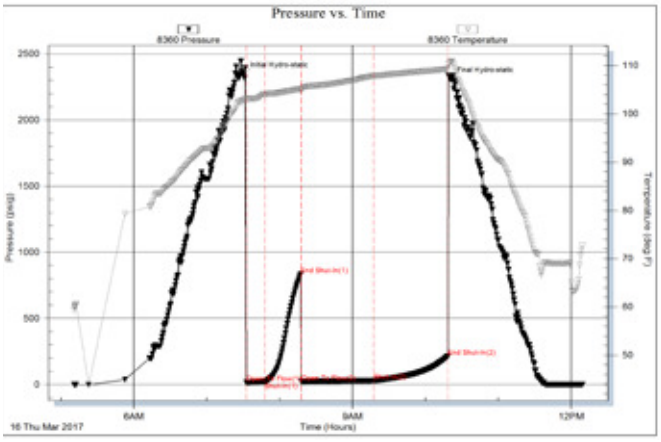
DEVIATION SURVEYS:

Deviation:	Depth:	Deviation:	Depth:
0.25*	220'	1.00*	4750'
0.50*	2370'	1.25*	4870'

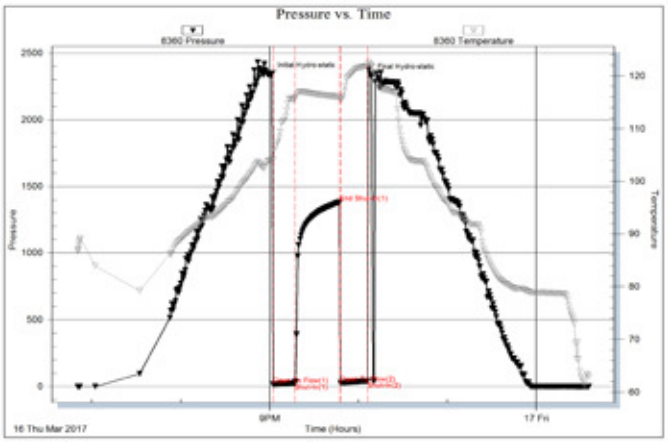
DST #1: 4669-4750 (Ft. Scott, CKE Ls)
Times: 15-30-10-out
Initial Open: Weak surface blow thruout
Final Open: No blow, flush tool, good surge, died
Rec: 5' mud
IHP: 2316 FHP: 2287
IFP: 22-22 FFP: 23-28
ISIP: 54 FSIP: NA
BHT: 103*F



DST #2: 4747-4775 (Mississippi)
Times: 15-30-60-60
Initial Open: Weak Surf blow, built to 1/4" inch
Final Open: dead at open, weak surface blow began after 15 min, and remained
Rec: 15' HOCM: 35%o 65%m
IHP: 2341 FHP: 2303
IFP: 15-19 FFP: 22-30
ISIP: 833 FSIP: 214
BHT: 109*F



DST #3: 4775-4780 (Mississippi)
Times: 15-30-20-out
Initial Open: Wk, built to 1/2" i.b.
Final Open: No Blow
Rec: 66' Total Fluid
1' oil, 65' MCW/sso: 60%w 40%m
(Chl/W: 28,000 ppm)
IHP: 2334 FHP: 2324
IFP: 15-25 FFP: 26-40
ISIP: 1382 FSIP: NA
BHT: 122*F



Rock Types

Anhy
Bent
Brec
Cht
Clyst
Black shale
Congl
Dol
Gyp
Igne
Lmst
Meta
Mrlst
Salt
Shale
Shcol
Shgy
Sltst
Ss
Till
Sltysh
Shlysiltst
Sandyls

Accessories

MINERAL
Anhy
Arggrn
Arg
Bent
Bit
Brecfrag
Ls/calc
Carb
Chtdk
Chtlt
Dol
Feldspar
Ferrpel
Ferr
Glau
Gyp
Hvymin
Kaol
Marl
Minxl
Nodule
Phos
Pyr
Salt
Sandy
Silt
Sil
Sulphur
Tuff

FOSSIL
Algae
Amph
Belm
Bioclst
Brach
Bryozoa
Cephal
Coral
Crin
Echin
Fish
Foram
Fossil
Gastro
Oolite
Ostra
Pelec
Pellet
Pisolite
Plant
Strom

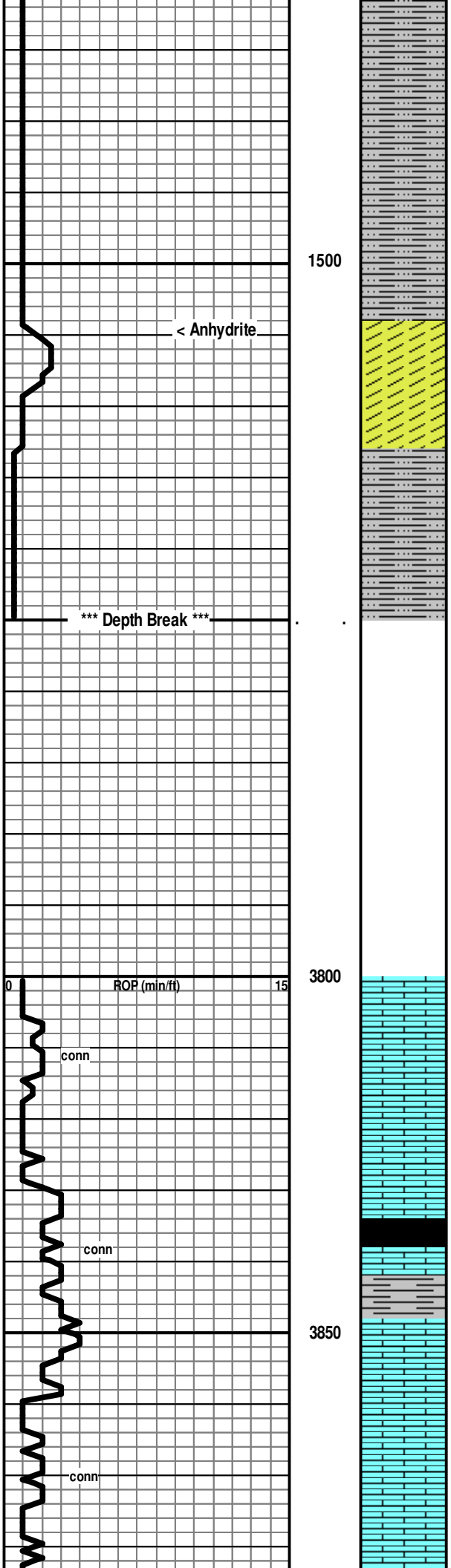
STRINGER
Anhy
Shale
Bent
Coal
Dol
Gyp
Ls
Mrst
Sltstrg
Ssstrg

TEXTURE
Boundst
Chalky
Cryxln
Earthy
Finexln
Grainst
Lithogr
Microxln
Mudst
Packst
Wackest

Other Symbols

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

ROP (min/ft)	Depth	Lithology	Shows	Geological Descriptions	Remarks
0 ROP (min/ft) 15	1400				
	50				



<----------1509 (+879)

Anhydrite Interval, based on drill time only!

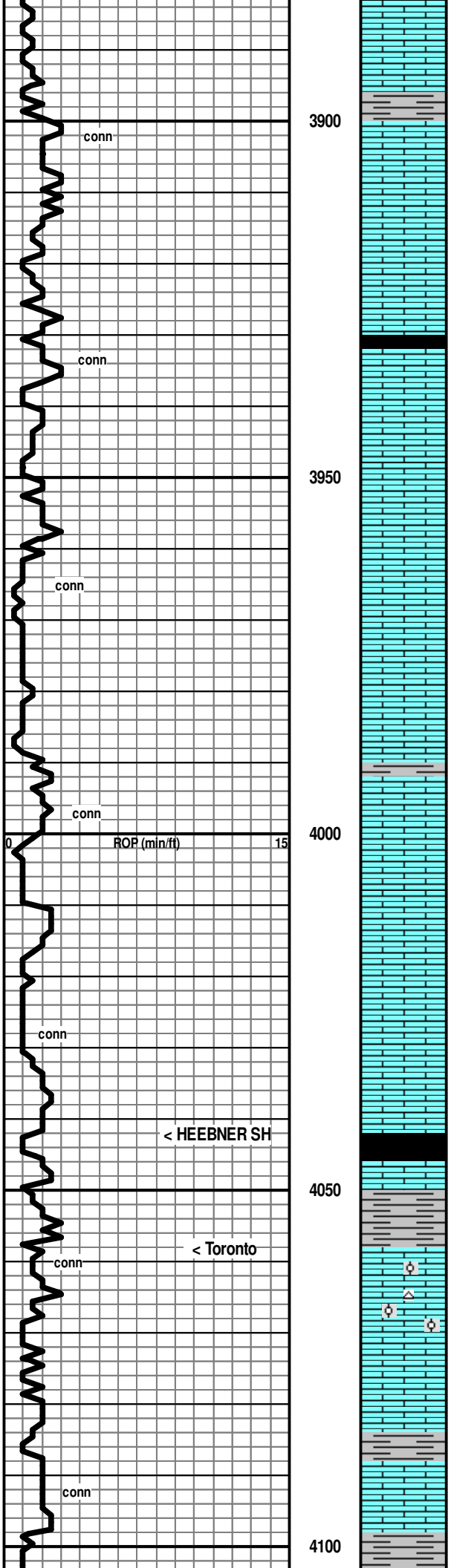
* 1-ft Drill Time began @ 3800 ft.

* Displace & Mudup @ 3608 Ft!

Mud Check: Drlg @ 3850 Ft:

Vis	Wt	WL	LCM	PV	YP
59	8.75	6.4	2	18	20

Chl	Hd	pH	Solids
2900	20	11.0	2.7



3900

3950

4000

4050

4100

* 10-ft Samples began @ 3900 ft.

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

Sh gy-grnish gy

Sh black, carb

Ls wh-cr, fn xln, chalky in pt, pr-fr xln por in pt, chert: wh-gy, opaq, foss

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

(high shale % in spls)

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

Sh gy

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

Ls cr-gy, fn xln, dns

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

<---------- 4042 (-1654)

Shale black, carb

Sh gy

<---------- 4058 (-1670)

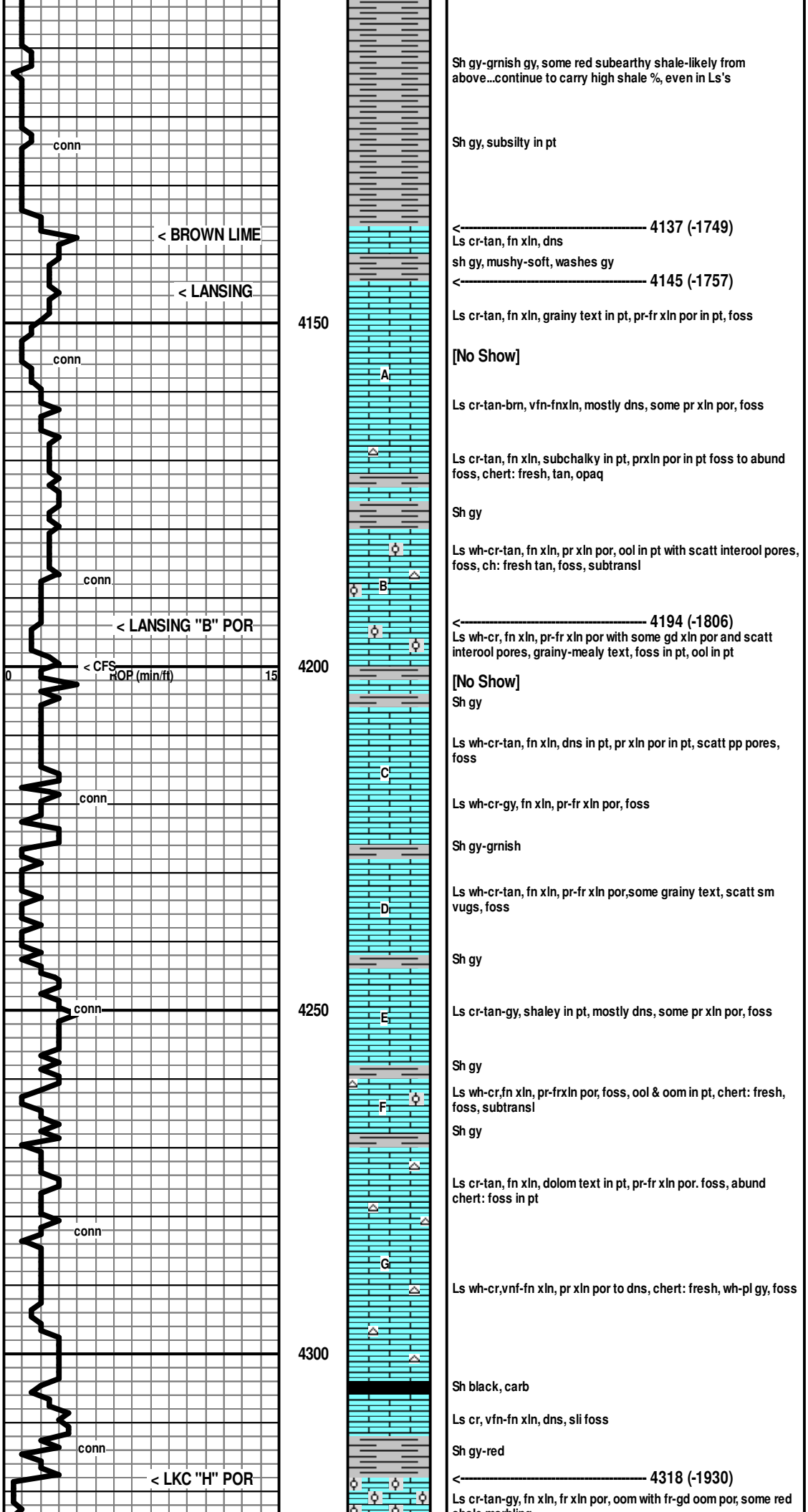
Ls cr-tan, fn xln, pr-fr xln por, subchalky in pt, foss, ool in pt, some oom pcs (tiny ooms), scatt oom chert

[No Show]

Ls cr, fn xln, pr xln por, abund calcite patches, foss

Sh gy

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



Sh gy-grnish gy, some red subearthy shale-likely from above...continue to carry high shale %, even in Ls's

Sh gy, subsilty in pt

<---------- 4137 (-1749)

Ls cr-tan, fn xln, dns

sh gy, mushy-soft, washes gy

<---------- 4145 (-1757)

Ls cr-tan, fn xln, grainy text in pt, pr-fr xln por in pt, foss

[No Show]

Ls cr-tan-brn, vfn-fnxln, mostly dns, some pr xln por, foss

Ls cr-tan, fn xln, subchalky in pt, prxln por in pt foss to abund foss, chert: fresh, tan, opaq

Sh gy

Ls wh-cr-tan, fn xln, pr xln por, ool in pt with scatt interool pores, foss, ch: fresh tan, foss, subtransl

<---------- 4194 (-1806)

Ls wh-cr, fn xln, pr-fr xln por with some gd xln por and scatt interool pores, grainy-mealy text, foss in pt, ool in pt

[No Show]

Sh gy

Ls wh-cr-tan, fn xln, dns in pt, pr xln por in pt, scatt pp pores, foss

Ls wh-cr-gy, fn xln, pr-fr xln por, foss

Sh gy-grnish

Ls wh-cr-tan, fn xln, pr-fr xln por,some grainy text, scatt sm vugs, foss

Sh gy

Ls cr-tan-gy, shaley in pt, mostly dns, some pr xln por, foss

Sh gy

Ls wh-cr,fn xln, pr-frxln por, foss, ool & oom in pt, chert: fresh, foss, subtransl

Sh gy

Ls cr-tan, fn xln, dolom text in pt, pr-fr xln por. foss, abund chert: foss in pt

Ls wh-cr,vnf-fn xln, pr xln por to dns, chert: fresh, wh-pl gy, foss

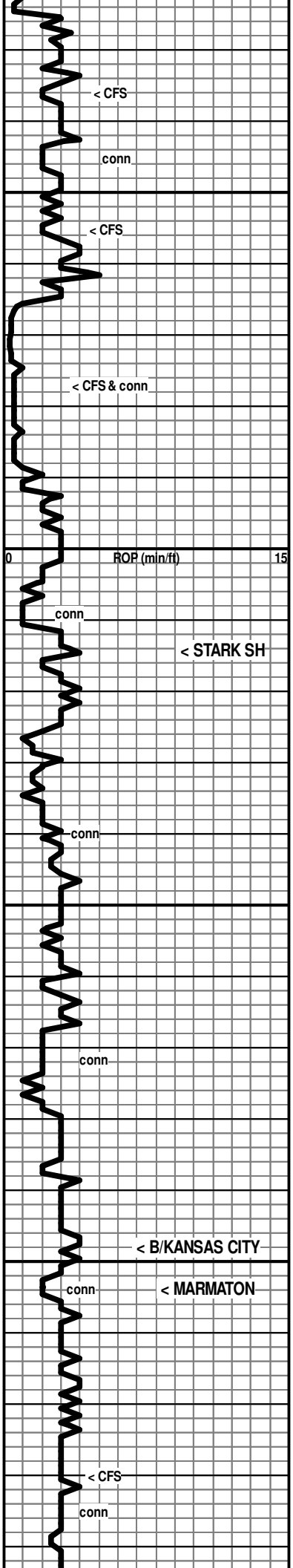
Sh black, carb

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

Sh gy-red

<---------- 4318 (-1930)

Ls cr-tan-gy, fn xln, fr xln por, oom with fr-gd oom por, some red

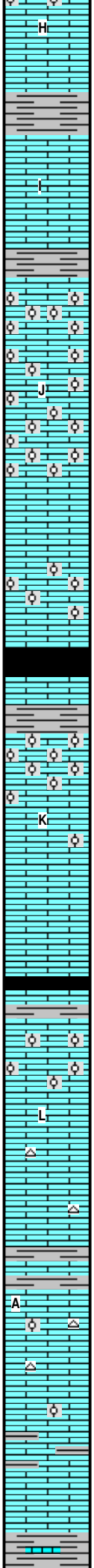


4350

4400

4450

4500



shale marbling

[No Show]

Ls cr-tan, fn xln, dns, foss

Sh gy-grnish gy

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

[No Show]

Ls wh-cr, fn xln, soft & chalky in pt, dns in pt

Sh gy

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

[No Show]

Ls cr-tan-pl gy, fn xln, pr-fr xln por, ool & oom with fr-gd oom por, some dns tan pcs

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

Ls cr, ool in pt, oom in pt? (possibly from above)

<---------- 4414 (-2026)

Sh black, carb (poorly repres in 4430' spl)

Ls cr-tan, fn xln, dns

Sh gy

Ls cr-tan, fn xln, mostly pr xln por, ool & oom with mix of pr-fr-gd oo por

[No Show]

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

Ls cr-tan, vfn-fn xln, dns, chalky in patches, foss

Sh black, carb

Ls wh-cr-tan, fn xln, pr xln por, ool & oom with mix of

[No Show]

Ls wh-cr-tan, fn xln, chalky in pt, mostly dns, foss in pt, chert: fresh, tan-gy, subopaq

<---------- 4498 (-2110)

Sh gy-dk gy

<---------- 4504 (-2116)

Ls wh-cr-tan, fn xln, subchalky in pt, mostly dns, some pr xln por, subdolom text in pt,scatt ool pcs, chert: fresh, gy, subop,spiculitic in pt

[No Show]

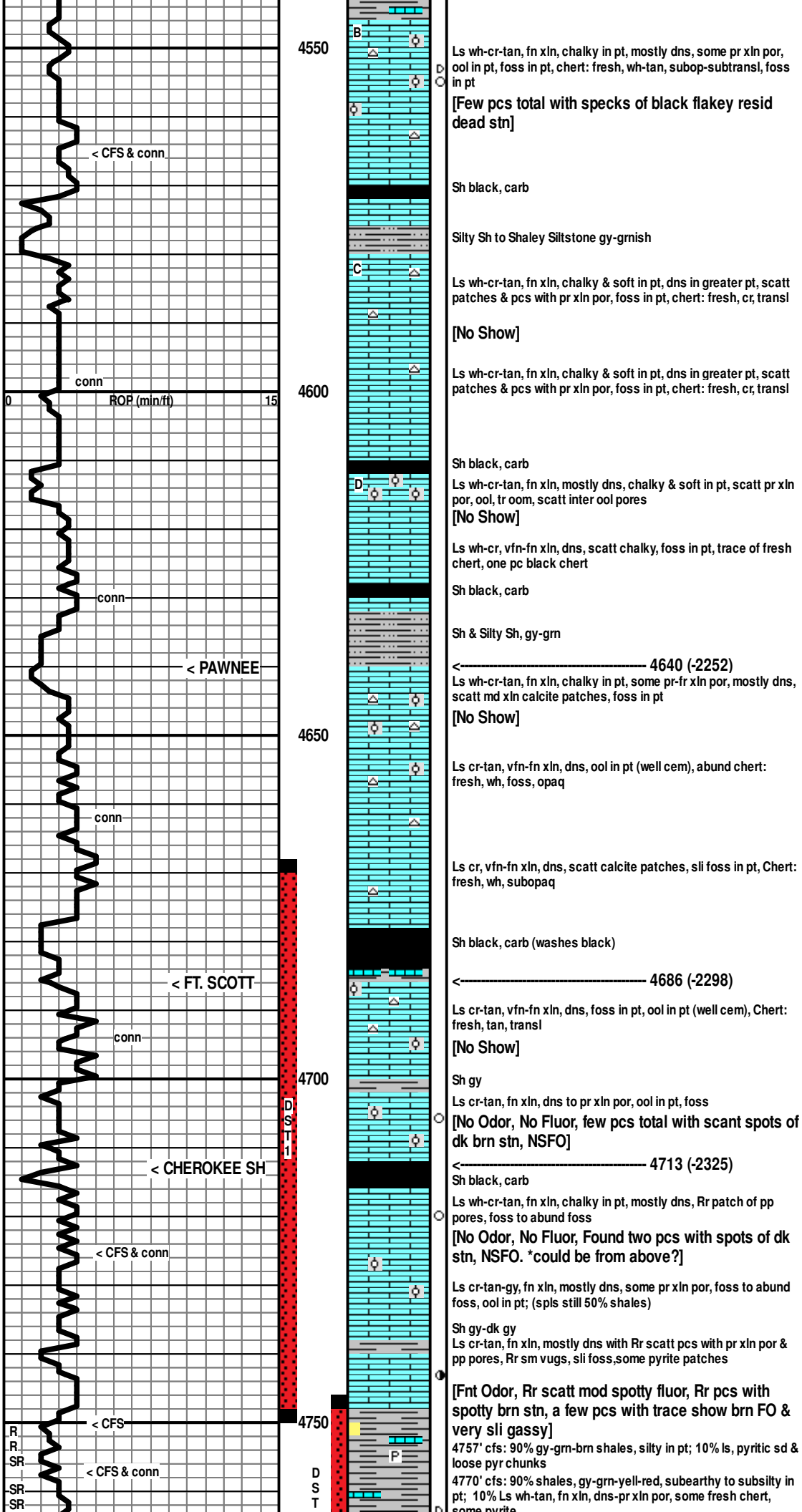
Ls & shaley ls, wh-cr with shales: gy-dk gy-blk

Sh gy-grnish, abund Ls in spls

7:00 AM, March 14, 2017

Mud Check: Drlg @ 4504 Ft:

Vis	Wt	WL	LCM	PV	YP
60	9.2	8.4	1.5	18	19
Chl	Hd	pH	Solids		
2850	20	10.5	6.3		



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

[Few pcs total with specks of black flakey resid dead stn]

Sh black, carb

Silty Sh to Shaley Siltstone gy-grnish

Ls wh-cr-tan, fn xln, chalky & soft in pt, dns in greater pt, scatt patches & pcs with pr xln por, foss in pt, chert: fresh, cr, transl

[No Show]

Ls wh-cr-tan, fn xln, chalky & soft in pt, dns in greater pt, scatt patches & pcs with pr xln por, foss in pt, chert: fresh, cr, transl

Sh black, carb

Ls wh-cr-tan, fn xln, mostly dns, chalky & soft in pt, scatt pr xln por, ool, tr oom, scatt inter ool pores

[No Show]

Ls wh-cr, vfn-fn xln, dns, scatt chalky, foss in pt, trace of fresh chert, one pc black chert

Sh black, carb

Sh & Silty Sh, gy-grn

<---------- 4640 (-2252)

Ls wh-cr-tan, fn xln, chalky in pt, some pr-fr xln por, mostly dns, scatt md xln calcite patches, foss in pt

[No Show]

Ls cr-tan, vfn-fn xln, dns, ool in pt (well cem), abund chert: fresh, wh, foss, opaq

Ls cr, vfn-fn xln, dns, scatt calcite patches, sli foss in pt, Chert: fresh, wh, subopaq

Sh black, carb (washes black)

<---------- 4686 (-2298)

Ls cr-tan, vfn-fn xln, dns, foss in pt, ool in pt (well cem), Chert: fresh, tan, transl

[No Show]

Sh gy

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

[No Odor, No Fluor, few pcs total with scant spots of dk brn stn, NSFO]

<---------- 4713 (-2325)

Sh black, carb

Ls wh-cr-tan, fn xln, chalky in pt, mostly dns, Rr patch of pp pores, foss to abund foss

[No Odor, No Fluor, Found two pcs with spots of dk stn, NSFO. *could be from above?]

Ls cr-tan-gy, fn xln, mostly dns, some pr xln por, foss to abund foss, ool in pt; (spls still 50% shales)

Sh gy-dk gy

Ls cr-tan, fn xln, mostly dns with Rr scatt pcs with pr xln por & pp pores, Rr sm vugs, sli foss,some pyrite patches

[Fnt Odor, Rr scatt mod spotty fluor, Rr pcs with spotty brn stn, a few pcs with trace show brn FO & very sli gassy]

4757' cfs: 90% gy-grn-brn shales, silty in pt; 10% ls, pyritic sd & loose pyr chunks

4770' cfs: 90% shales, gy-grn-yell-red, subearthy to subsilty in pt; 10% Ls wh-tan, fn xln, dns-pr xln por, some fresh chert, some pyrite

DST #1: 4669-4750 (Ft. Scott, CKE Ls) Times: 15-30-10-out
Initial Open: Weak surface blow thruout
Final Open: No blow, flush tool, good surge, died
Rec: 5' mud
IHP: 2316 FHP: 2287
IFP: 22-22 FFP: 23-28
ISIP: 54 FSIP: NA
BHT: 103*F

* Ran Short Trip @ 4725 Ft. 55 Stds! (first 30 stds pulled tight)

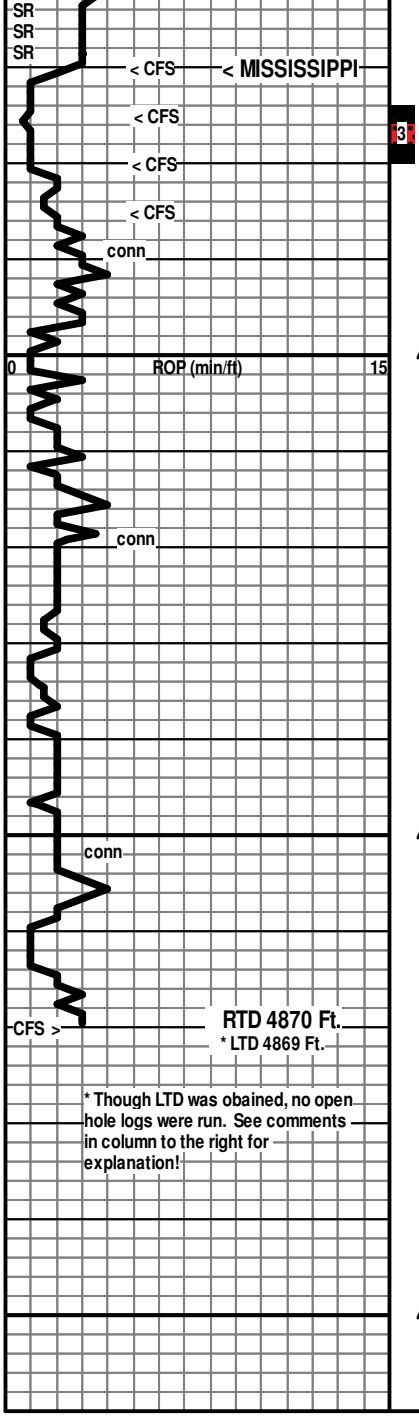
7:00 AM, March 15, 2017

* Ran Short Trip @ 4750 ft due to pulling tight on trip out for DST 1!

Mud Check: CTCH @ 4750 Ft:

Vis	Wt	WL	LCM	PV	YP
52	9.2	7.6	1	17	18
Chl	Hd	pH	Solids		
3600	20	11.0	6.2		

* Pipe Strap @ 4775 ft: 0.00 ft difference!



2

3

4800

4850

4900

P

[No Odor, No Fluor, Rr scatt blk resid dead stn in limestone. NSFO]

<---------- 4770 (-2382)

<4770-75: Dol wh-cr, fn xln, subsucr-sucrosic text, pr-fr xln por, abund pp pores & vugs

<4775-80: Dol wh-cr, fn xln, subsucr-sucrosic text, scatt pr-fr xln por, scatt pp pores & vugs, some chert: fresh,wh-pl gy, subtransl, foss in pt (spls mostly shales)

<4780-85: Dol, wh-cr-grnish, fn xln, subsucr with some sucro, limey in pt, mostly pr xln por, scatt pp pores & sm vugs, some sdy clusters

Dol, Limey in pt, fn xln, subsucr-sucr text,Rr spots of grn glauc, dns to pr xln por with scatt pp pores & sm vugs, sli cherty: fresh, wh, opaq, foss

[No Odor, No fluor, Rr trace of spots of dk brn stn to blk resid stn, Rr trace show of deadish dk brn oil, NSFO]

Dol, some Ls, cr-pl gy, fn xln, subsucr-sucr text in pt, pr-fr xln por in pt,scatt pp pores & vugs

[No Odor, No fluor, Rr trace of spots of dk brn stn to blk resid stn, Rr trace show of deadish dk brn oil, NSFO, could be from above? 99%+ barren]

Dol, wh-cr-pl gy,fnxln, subsucr-sucrosic text, mostly fr xln por, scatt pp pores & vugs, Rr scatt glauc specks

[No Odor, No fluor, V Rr spots of dk brn dead stn, NSFO, could be from above?]

Dol, wh-cr, fn xln, sucrosic, pr-fr xln por, scatt pp pores & vugs, glauc in pt

[No Show]

Dol wh-cr-tan, fn-md xln, pr-fr xln por, some gd xln por, mod am't of pp pores & vugs, glauc in pt, foss in pt,some foss-mold por

[No Show]

< RTD 4870 Ft. @ 9:00 AM, March 17, 2017

* While logging first repeat, log tools became stuck at 4810' +/-. Tried to free with alternating line tension and line slack, only moved log tools 9 ft higher. Ordered out fishing tools and fishing tool operator. Rig lacked enough drill pipe to fish with. Ordered out more drill pipe. Ran sidedoor fishing tool down logging line with drill pipe. Retrieved log tool intact, slight damage to caliper tool arm. Decision made not to attempt to log again. Prepare to plug well.

[4770-4775: Stg Odor, Abund Mod-Brt Fluor, Abund tan-brn Spotty-patchy-even Stn, Mix of sli-fr-gd shows of gassy lt brn-brn FO, scatt patches of dead tarry blk stn, some barren porosity]

7:00 AM, March 16, 2017

[4775-4780: Mod Odor, Scatt Mod-Brt Fluor, Scatt tan-brn-black spotty to patchy stn, mix of FO, NVLO, and blk Dead oil, incr'd barren por]

[4780-4785: Fnt Odor, Widely scatt dull-mod fluor, Mostly barren, few pcs per tray with patchy stn & tr show FO, mostly NVLO]

DST #2: 4747-4775 (Mississippi)
Times: 15-30-60-60
Initial Open: Weak Surf blow, built to 1/4" inch
Final Open: dead at open, weak surface blow began after 15 min and remained
Rec: 15' HOCM: 35%o 65%m
IHP: 2341 FHP: 2303
IFP: 15-19 FFP: 22-30
ISIP: 833 FSIP: 214
BHT: 109*F

DST #3: 4775-4780 (Mississippi)
Times: 15-30-20-out
Initial Open: Wk, built to 1/2" i.b.
Final Open: No Blow
Rec: 66' Total Fluid
1' oil, 65' MCW/sso: 60%w 40%m
(Chl/W: 28,000 ppm)
IHP: 2334 FHP: 2324
IFP: 15-25 FFP: 26-40
ISIP: 1382 FSIP: NA
BHT: 122*F

Mud Check: OB/DST2 @ 4775 Ft:

Vis	Wt	WL	LCM	PV	YP
49	9.3	8.4	1	14	15
Chl	Hd	pH	Solids		
5300	40	10.0	6.8		

Mud Check: ST @ RTD 4870 Ft:

Vis	Wt	WL	LCM	PV	YP
52	9.35	10.8	1	14	13
Chl	Hd	pH	Solids		
7200	80	10.8	7.4		

COPELAND
Acid & Cement

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

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

Invoice

INVOICE NUMBER:
C44669-IN

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

LEASE: TEMAAT 1-11

DATE	ORDER	SALESMAN	ORDER DATE	PURCHASE ORDER	SPECIAL INSTRUCTIONS
03/20/2017	C44669		03/09/2017		NET 30

QUANTITY	U/M	ITEM NO./DESCRIPTION	D/C	PRICE	EXTENSION
1.00	EA	CEMENT PUMP CHARGE	0.00	650.00	650.00
1.00	EA	8 5/8" SURFACE PIPE CEMENT JOB (PRICE AS AGREED - MILEAGE, CEMENT, ETC.)	0.00	2,349.00	2,349.00

7/0/43 BCP
19137.0111
"Cement Surface"
Well File

REMIT TO:
P.O. BOX 438
HAYSVILLE, KS 67060

RECEIVED BY

COP

FUEL SURCHARGE IS NOT TAXABLE AND IS ADDED TO MILEAGE, PUMP AND OR DELIVERY CHARGES ONLY.

NET 30 DAYS

Net Invoice:	2,999.00
FORCO Sales Tax:	52.98
Invoice Total:	**3,051.98**

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

COPELAND
Acid & Cement

FIELD ORDER Nº C 44669

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

DATE 3-9 20 17

IS AUTHORIZED BY: CARMEN Schmitt INC
(NAME OF CUSTOMER)

Address _____ City _____ State _____

To Treat Well As Follows: Lease TEMAAT Well No. 1-11 Customer Order No. _____

Sec. Twp. Range 11-25s-22W County FORD 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 _____ By _____
Well Owner or Operator Agent

CODE	QUANTITY	DESCRIPTION	UNIT COST	AMOUNT
2		PRICE AS AGREED mileage Pump Chg		
		Cmt.		2999.00
		8 5/8" SURFACE PIPE		
		Bulk Charge		
		Bulk Truck Miles		
		Process License Fee on _____ Gallons		
		TOTAL BILLING		$2999.00

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 DUANE BRAZEK

Station Gt. Bend, Ks. CARMEN Schmitt
Well Owner, Operator or Agent

Remarks _____

NET 30 DAYS

COPELAND
Acid & Cement

TREATMENT REPORT

Acid Stage No. _____

Date 3/9/2017 District GREAT BEND KS. F.O. No. 44669

Company CARMEN SCHMITT INC.

Well Name & No. TEMAAT 1-11

Location 11-25S-22W Field _____

County FORD ST KANSAS

Casing: Size 8 5/8 Type & Wt. _____ Set at 218' ft.

Formation: _____ Perf. _____ to _____

Formation: _____ Perf. _____ to _____

Formation: _____ Perf. _____ to _____

Liner: Size _____ Type & Wt. _____ Top at _____ ft. Bottom at _____ ft.

Cemented: _____ Perforated from _____ ft. to _____ ft.

Tubing: Size & Wt. _____ Swung at _____ ft.

Perforated from _____ ft. to _____ ft.

Open Hole Size _____ T.D. _____ ft. P.B. to _____ ft.

Type Treatment:	Amt.		Type Fluid	Sand Size	Pounds of Sand
Bkdown		Bbl./Gal.			
		Bbl./Gal.			
		Bbl./Gal.			
		Bbl./Gal.			
Flush		Bbl./Gal.			

Treated from _____ ft. to _____ ft. No. ft. 0

from _____ ft. to _____ ft. No. ft. 0

from _____ ft. to _____ ft. No. ft. 0

Actual Volume of Oil / Water to Load Hole: _____ Bbl./Gal.

Pump Trucks. No. Used: Std. 320 Sp. _____ Twin _____

Auxiliary Equipment 360-310T

Personnel DUANE GREG ARRON

#NAME? _____

Plugging or Sealing Materials: Type _____

_____ Gals. _____ lb.

Company Representative _____ Treater DUANE

TIME	PRESSURES		Total Fluid Pumped	REMARKS
a.m./p.m.	Tubing	Casing		
445PM				ON LOC
520 PM			10 BBLS	BREAK CIR
527PM			0	MIX CMT
538 PM			38.95 BBLS	CMT MIXED
540 PM			0	START DISPLACEMENT
545 PM			12.91 BBLS	PLUG DOWN
600PM				JOB COMPLETE
				THANK YOU

KCC Wade Klaus 3-7-17

API # 15-057-20978 Well Code # _____

Operator Carmen Schmitt Well Name & No. Jemgat 1-11

Location 330 FNL 450 FEL 11-25-22 County Ford State KS

Rig No. 16 Contractor _____ Tool Pusher Andy Dinkel

No. Drill Collars _____ Size _____ No. Joints Flex Wt. _____ Size _____ Total Wt. (Both) _____

Make Pump D-375 Liner & Stroke _____ Spud 145 P.m 3-9-17

Approx. TD 4850 Elevation 2383 G.L. 2388 K.B. Hole Complete 900 Am 3-17-17

Move Mileage 16 Mile Trucking Co. MDC R-B Move Cost 8740 + 990 = 9730

	3830	3485	3135	2875	2440	2000	1740	1480	1300	1200
Date	3-9-17	3-10-17	3-11-17	3-12-17	3-13-17	3-14-17	3-15-17	3-16-17	3-17-17	3-18-17	3-19-17
Days	MIRT	1	2	3	4	5	6	DST 2	7	To Plug	off
Depth	MDC	630	2300	3010	3740	4380	4730	4775	4815	4870	4870
Ft. Cut	R-B	630	1670	710	730	640	350	45	40	55	—
D.T.	Swampers	8 WOC	—	1 Time	3 Displace	1/4 Tight					
D.T.											
C.T.						2 3/4	6 1/2	21 1/2	21 3/4	22	9
Bit Wt.		12	30	35	35	35	35	35	35	30	
RPM		90	80	80	80	80	80	80	80	80	
Pressure		650	750	800	800	850	850	850	700	800	
SPM		62	62	62	62	62	62	62	62	62	
Mud Cost			4225	6208	7410	9132	10650	11237	11426	11917	
Mud Wt.		8 8/4	9 2/4	9 6/4	8 8/4	9 3/4	9 3/4	9 2/4	9 2/4	9 2/4	
Viscosity					58	50	54	52	45	54	
Water Loss						6 4/4	8 4/4	7 6/4	8 8/4	10 8/4	
Clorides						2900	2850	3600	5300	7200	
L.C.M. - PH					1#	1#-11	2#-10	2#-11	1#-10	1#-9	
Dev. Sur.		1/4-220		1/2-2380						1 1/4-4870	
ACC Bit Hours		5 1/4	27 1/2	48 3/4	70 3/4	91	107 3/4	110	112 1/4	113 1/2	
Formation		Sh & Sa	Sh	Sh & Lm	Sh & Lm	Sh & Lm	Sh & Lm	Miss	Miss	Miss	
Weather		Clear	Cloudy	Foggy	Clear	Cloudy	Cloudy	Clear	Clear	Clear	Clear

NO.	SIZE	TYPE	OUT	FT.	HRS.	CUM. HRS.	BIT COND. T	B	G	SERIAL #	TOPS
1	12 1/4 Varel	ERT RR	220	220	2 1/2					1243646	Anhy
1	7 7/8 Htco	GX2CNew	4870	4650	113 1/2	116		4	4	5265258	1509-1518
		130 P.m	215 P.m 3-17-17	Pooreye		LTO 4869					Strape 4750
		Stuck @	4766 Top of Tool								Even
	JIH w/ Side	door overshot @ 715 pm		over flow 1230 Am 3-18-17							
	All Tool	out of hole @	530 Am	3-18-17							
		No Log Ran	After	Tool Out of Hole		Going To Plug					

DEPTH	SIZE	SACKS	CEMENT MATERIAL	PLUG DOWN	15' Cement DRILLED OUT	REMARKS
218	8 5/8	175	60/40 Poz 3% & 2%	545 P.m 3-9-17	145 Am 3-10-17	Circ 5 BBL Copeland

NO.	INTERVAL	OPEN	SHUT	OPEN	SHUT	REC	HH	IFP	ISIP	FFP	FSI
Chr. 1	4669-4750	15	30	10	—	5' mud					
miss 2	4747-4775	15	30	60	60	10' ocm					
miss 3	4775-4780	15	30	15	-	1' oil 65' mco					
	D&A			(Plugs		on Back)					

Surface Casing Furnished By: C-S M.W 23# 0+S P Fe. Frs Dozer Gabel Haul

Accidents & Remarks: 5 Jts 211.58 w+s Mud-Co From Spearville

Tight Conn 3710 Hongs Frac

55 Stand Wiper Trip @ 4725 3608 680 BBL Carmen Rd All

API # _____ Well Code # _____

Operator Carmen Schmitt Well Name & No. Temaat #1

Location _____ County _____ State _____

Rig No. 16 Contractor _____ Tool Pusher _____

No. Drill Collars _____ Size _____ No. Joints Flex Wt. _____ Size _____ Total Wt. (Both) _____

Make Pump _____ Liner & Stroke _____ Spud _____

Approx. TD _____ Elevation _____ G.L. _____ K.B. Hole Complete _____

Move Mileage _____ Mile Trucking Co. _____ Move Cost _____

Date												
Days												
Depth												
Ft. Cut												
D.T.												
D.T.												
C.T.												
Bit Wt.												
RPM												
Pressure												
SPM												
Mud Cost												
Mud Wt.												
Viscosity												
Water Loss												
Clorides												
L.C.M.												
Dev. Sur.												
ACC Bit Hours												
Formation												
Weather												

NO.	SIZE	TYPE	OUT	FT.	HRS.	CUM. HRS.	BIT COND. T	B	G	SERIAL #	TOPS
	1530	50 Sx	60/40 Poz 4%Gel								
	780	80 Sx	1/4# Flosral			Start	10:00 AM 3-18-17				
	240	50 Sx				Comp	12:00 P.M 3-18-17				Copeland
	60	20 Sx				Orders	Mike Maier KCC 3-14-17				
	RH	30 Sx				Rig Released	4:00 P.M 3-18-17				
	MH	20 Sx									

DEPTH	SIZE	SACKS	CEMENT MATERIAL	PLUG DOWN	DRILLED OUT	REMARKS

NO.	INTERVAL	OPEN	SHUT	OPEN	SHUT	REC	HH	IFP	ISIP	FFP	FSI

Surface Casing Furnished By: _____

Accidents & Remarks: _____