

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Carmen Schmitt, Inc.
Well Name	Circle Trust 1
Doc ID	1401680

All Electric Logs Run

Dual Induction
Dual Comp Porosity
Mircro
Mud Log

Form	ACO1 - Well Completion
Operator	Carmen Schmitt, Inc.
Well Name	Circle Trust 1
Doc ID	1401680

Tops

Name	Top	Datum
Anhydrite	1194	676
Topeka	2787	-917
Heebner Sh	3005	-1135
Toronto	3028	-1158
Lansing	3051	-1181
B/ KC	3311	-1441
Marmaton	3346	-1476
Arbuckle	3469	-1599

COPELAND

Acid & Cement

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

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

Invoice

INVOICE NUMBER:
C45651-IN

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

LEASE: CIRCLE TRUST #1

DATE	ORDER	SALESMAN	ORDER DATE	PURCHASE ORDER	SPECIAL INSTRUCTIONS	
02/28/2018	C45651		02/28/2018		NET 30	
QUANTITY	U/M	ITEM NO./DESCRIPTION		D/C	PRICE	EXTENSION
50.00	MI	MILEAGE PUMP TRUCK		22.00	4.00	156.00
50.00	MI	MILEAGE PICKUP		22.00	2.00	78.00
1.00	EA	PUMP CHARGE-SURFACE PIPE		22.00	1,100.00	858.00
175.00	SK	COMMON CEMENT		22.00	12.75	1,740.38
10.00	SK	CALCIUM CHLORIDE		22.00	30.00	234.00
185.00	EA	BULK CHARGE		22.00	1.25	180.38
397.50	MI	BULK TRUCK - TON MILES		22.00	1.10	341.06
<i>7/10/43</i> <i>19412.0001</i> <i>Well Site</i> <i>Surface Cement</i>						
REMIT TO: P.O. BOX 438 HAYSVILLE, KS 67060		COP		Net Invoice:		3,587.82
		FUEL SURCHARGE IS NOT TAXABLE AND IS ADDED TO MILEAGE, PUMP AND OR DELIVERY CHARGES ONLY.		ROOCO Sales Tax:		100.31
RECEIVED BY		NET 30 DAYS		Invoice Total:		<u><u>3,688.13</u></u>

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



FIELD ORDER N^o C 45651

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

DATE 2/28/18 20

IS AUTHORIZED BY: Cerna Schmitt (NAME OF CUSTOMER)
 Address _____ City _____ State _____
 To Treat Well _____ Well No. 1 Customer Order No. _____
 As Follows: Lease Circle Trust
 Sec. Twp. _____ County Rooks State Ks
 Range _____

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	50	nilease pump truck	4. ⁰⁰	200.00
2	50	nilease pickup	2. ⁰⁰	100.00
2	1	Pump Charge - Surface Pipe		1,100.00
2	175	Cement	12. ⁷⁵	2,231.25
2	10	Calcium Chloride	30. ⁰⁰	300.00
2	185	Bulk Charge	1. ²⁵	231.25
2		Bulk Truck Miles 7.95 T x 50 = 397.5 T x 1. ¹⁰	1. ¹⁰	437.25
		Process License Fee on _____ Gallons		4,599.75
TOTAL BILLING			20% dis	1,011.95

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 Nathan W.

3587.00

Station G.B

Discovery Ric
Well Owner, Operator or Agent

Remarks _____

NET 30 DAYS



QUALITY OILWELL CEMENTING, INC.
 PO Box 32 - 740 WEST WICHITA AVE, RUSSELL KS 67665
 PHONE: 785-324-1041 FAX: 785-483-1087
 EMAIL: cementing@ruraltel.net

Date: 3/9/2018
 Invoice # 671

P.O.#:
 Due Date: 4/8/2018
 Division: Russell

Invoice

Contact:
 Carmen Schmitt Inc
 Address/Job Location:

P.O. Box 47
 Great Bend Ks 67530

Reference:
 CIRCLE TRUST 1 SEC 25-7-16

Description of Work:
 PLUG JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 609.31	Yes				
Common-Class A	183	\$ 2,574.50	Yes				
POZ Mix-Standard	122	\$ 583.22	Yes				
Premium Gel (Bentonite)	11	\$ 217.85	Yes				
Bulk Truck Mat-Material Service Charge	316	\$ 215.80	Yes				
Pump Truck Mileage-Job to Nearest Camp	54	\$ 165.95	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	54	\$ 129.07	Yes				
Flo Seal	75	\$ 102.44	Yes				
Dry Hole Plug	1	\$ 38.24	Yes				

Invoice Terms:

Net 30

	SubTotal:	\$ 4,636.39
	Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:	\$ (115.91)
<hr/>		
	SubTotal for Taxable Items:	\$ 4,520.48
	SubTotal for Non-Taxable Items:	\$ -
<hr/>		
	Total:	\$ 4,520.48
	Tax:	\$ 316.43
	Amount Due:	\$ 4,836.91

7.00% Rooks County Sales Tax

Thank You For Your Business!

Applied Payments:
Balance Due: \$ 4,836.91

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
 ©2008-2013 Straker Investments, LLC. All rights reserved.

7/10/43
 19412.0001
 Well #12
 Cement Plug

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 671

Date	3-9-18	Sec.	25	Twp.	7	Range	16	County	Rooks	State	Ks	On Location		Finish	9:30 Am
Lease								Location		Woodston - 2E to 30 Rd, 3 1/2 S, E1S					
Circle Trust								Well No.		1					
Contractor								Owner		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.					
Discovery #2															
Type Job								Charge To		Carmen Schmitt					
Plug															
Hole Size				T.D.		Depth				Street					
7 7/8"				3690'		3449'									
Csg.				Depth		City				State					
4 1/2" D.P.				3449'											
Tbg. Size				Depth		The above was done to satisfaction and supervision of owner agent or contractor.									
4 1/2" D.P.				3449'											
Tool				Depth		Cement Amount Ordered				305 60/40 4% Gel 1/4# Flowseal					
Cement Left in Csg.				Shoe Joint											
Meas Line				Displace											
				H2O/mud											
EQUIPMENT								Common							
Pumptrk 16 No. Cementer								183							
Helper								Rick							
Bulktrk 19 No. Driver								122							
Jordan								11							
Bulktrk No. Driver								Calcium							
Bulktrk No. Driver								Hulls							
3449' JOB SERVICES & REMARKS								Salt							
Remarks: 3449' - 50SX								Flowseal 75#							
Rat Hole 1210' - 50SX								Kol-Seal							
Mouse Hole 940' - 100SX								Mud CLR 48							
Centralizers 270' - 50SX								CFL-117 or CD110 CAF 38							
Baskets 40' - 10SX w/plug								Sand							
DN or Port Collar Rathole w/ 30SX								Handling 316							
Mousehole w/ 15SX								Mileage							
								FLOAT EQUIPMENT							
								Guide Shoe							
								Centralizer Dry hole plug							
								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
								Pumptrk Charge Plug							
								Mileage 54							
Signature								Tax							
[Signature]								Discount							
								Total Charge							



DRILL STEM TEST REPORT

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

PO Box 47
Great Bend KS 67530+0047

ATTN: Brad Rine

Circle Trust #1

25-7S-16W Rooks,KS

Start Date: 2018.03.03 @ 11:20:00

End Date: 2018.03.03 @ 16:52:30

Job Ticket #: 63755 DST #: 1

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

Printed: 2018.03.09 @ 10:02:37



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

25-7S-16W Rooks,KS
Circle Trust #1
 Job Ticket: 63755 **DST#: 1**
 Test Start: 2018.03.03 @ 11:20:00

GENERAL INFORMATION:

Formation: **Topeka 'B'**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:25:45
 Time Test Ended: 16:52:30
 Interval: **2809.00 ft (KB) To 2825.00 ft (KB) (TVD)**
 Total Depth: 2825.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Spencer J. Staab
 Unit No: 84
 Reference Elevations: 1870.00 ft (KB)
 1862.00 ft (CF)
 KB to GR/CF: 8.00 ft

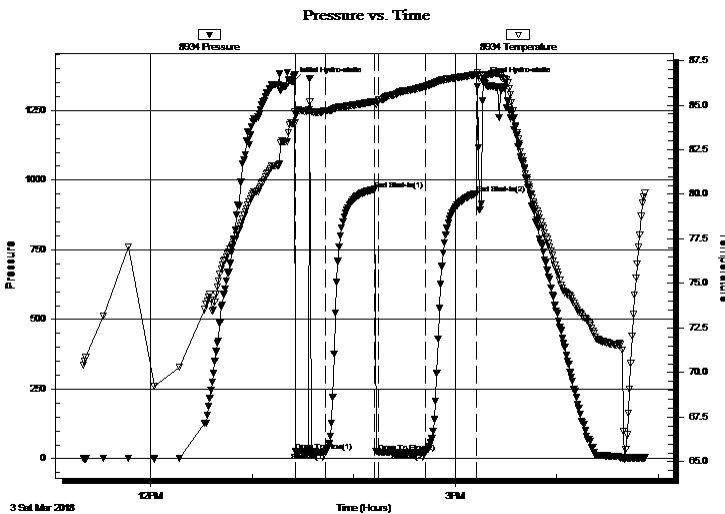
Serial #: 8934

Inside

Press@RunDepth: 23.22 psig @ 2810.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.03.03 End Date: 2018.03.03 Last Calib.: 2018.03.03
 Start Time: 11:20:15 End Time: 16:52:30 Time On Btm: 2018.03.03 @ 13:24:15
 Time Off Btm: 2018.03.03 @ 15:16:45

TEST COMMENT: 15-IF-No Blow ; Flushed tool, did not help
 30-ISI-No Return
 30-FF-Weak Blow ; Built to 1/2"
 30-FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1353.93	83.98	Initial Hydro-static
2	25.87	84.04	Open To Flow (1)
19	24.18	84.68	Shut-In(1)
49	967.28	85.22	End Shut-In(1)
51	23.75	85.28	Open To Flow (2)
79	23.22	86.05	Shut-In(2)
109	951.96	86.72	End Shut-In(2)
113	1351.87	86.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	SOCM 5%O 95%M	0.07
2.00	HMCO 45%M 55%O	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

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

25-7S-16W Rooks,KS
Circle Trust #1
Job Ticket: 63755 **DST#: 1**
Test Start: 2018.03.03 @ 11:20:00

Tool Information

Drill Pipe:	Length: 2563.00 ft	Diameter: 3.80 inches	Volume: 35.95 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 250.00 ft	Diameter: 2.75 inches	Volume: 1.84 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: 90000.00 lb
			<u>Total Volume: 37.79 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	2809.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	44.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

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

Change Over Sub	1.00			2782.00	
Shut In Tool	5.00			2787.00	
Hydraulic tool	5.00			2792.00	
Jars	5.00			2797.00	
Safety Joint	3.00			2800.00	
Packer	5.00			2805.00	28.00 Bottom Of Top Packer
Packer	4.00			2809.00	
Stubb	1.00			2810.00	
Recorder	0.00	9120	Outside	2810.00	
Recorder	0.00	8934	Inside	2810.00	
Perforations	12.00			2822.00	
Bullnose	3.00			2825.00	16.00 Bottom Packers & Anchor

Total Tool Length: 44.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

25-7S-16W Rooks,KS
Circle Trust #1
Job Ticket: 63755 **DST#: 1**
Test Start: 2018.03.03 @ 11:20:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.39 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2200.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	SOCM 5%O 95%M	0.073
2.00	HMCO 45%M 55%O	0.015

Total Length: 12.00 ft Total Volume: 0.088 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: 2#LCM

Serial #: 8934

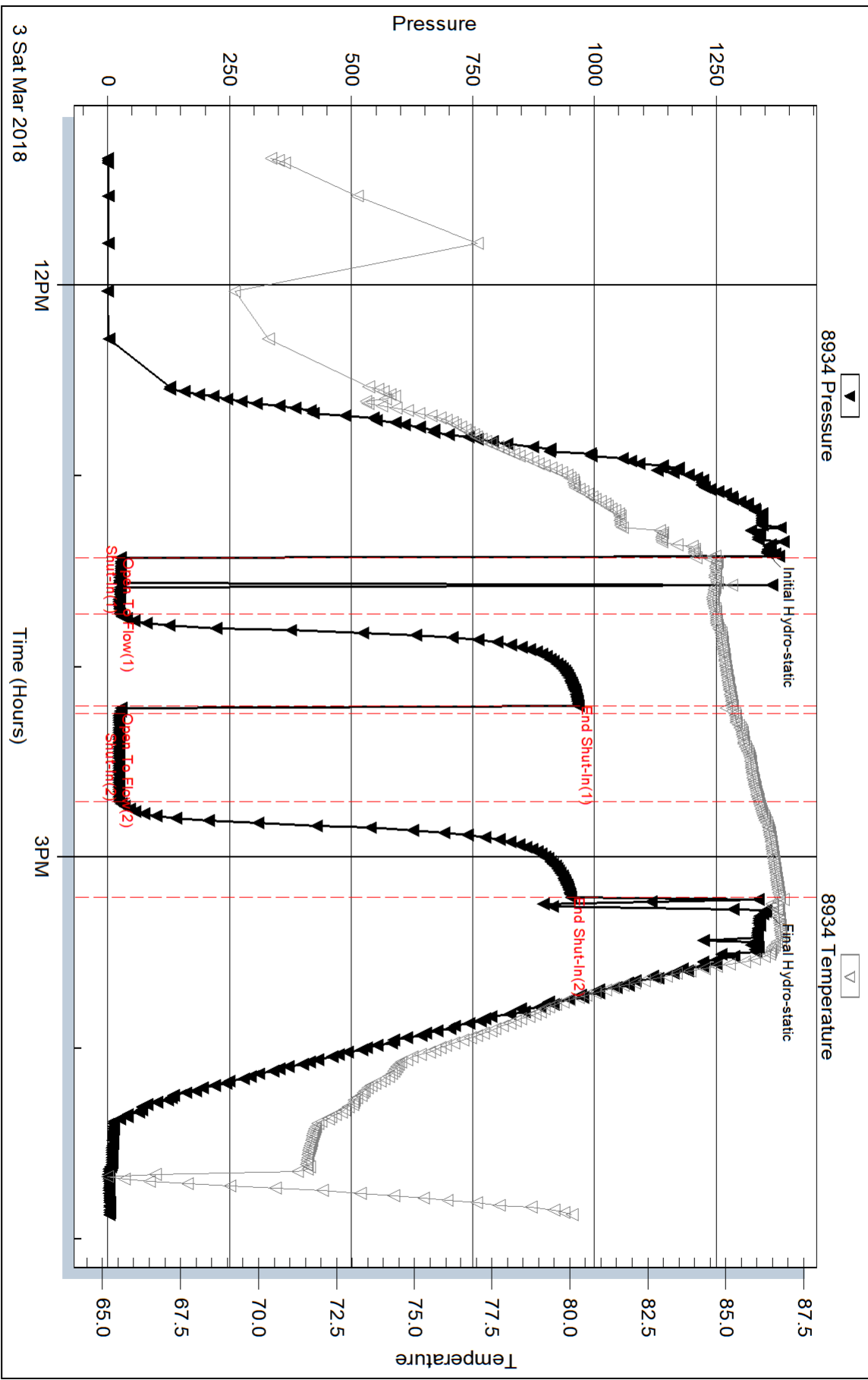
Inside

Carmen Schmitt, Inc.

Circle Trust#1

DST Test Number: 1

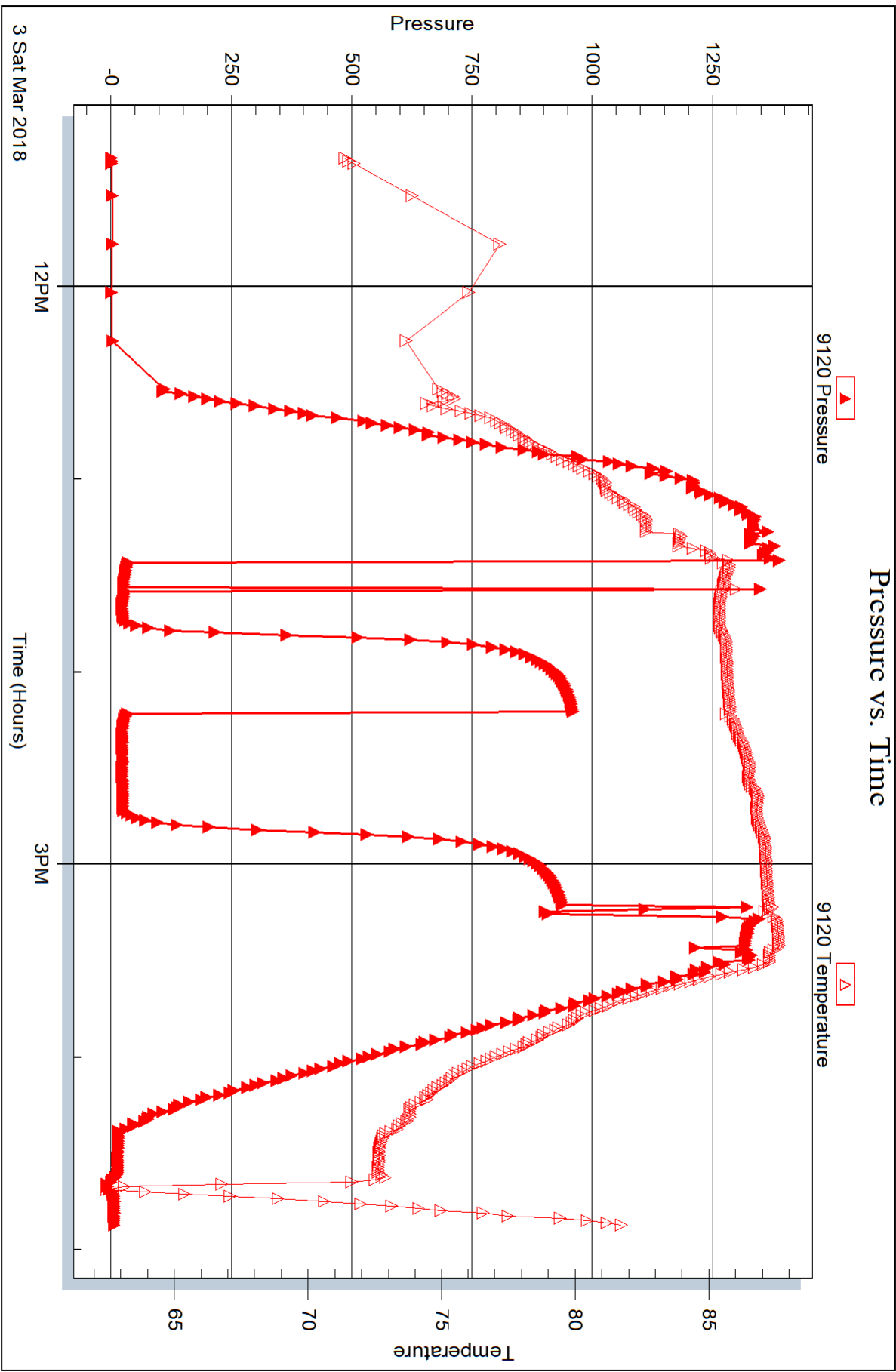
Pressure vs. Time



Triobite Testing, Inc

Ref. No: 63755

Printed: 2018.03.09 @ 10:02:38





DRILL STEM TEST REPORT

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

PO Box 47
Great Bend KS 67530+0047

ATTN: Brad Rine

Circle Trust #1

25-7S-16W Rooks,KS

Start Date: 2018.03.04 @ 08:02:00

End Date: 2018.03.04 @ 13:49:30

Job Ticket #: 63756 DST #: 2

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

Printed: 2018.03.09 @ 10:02:14



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

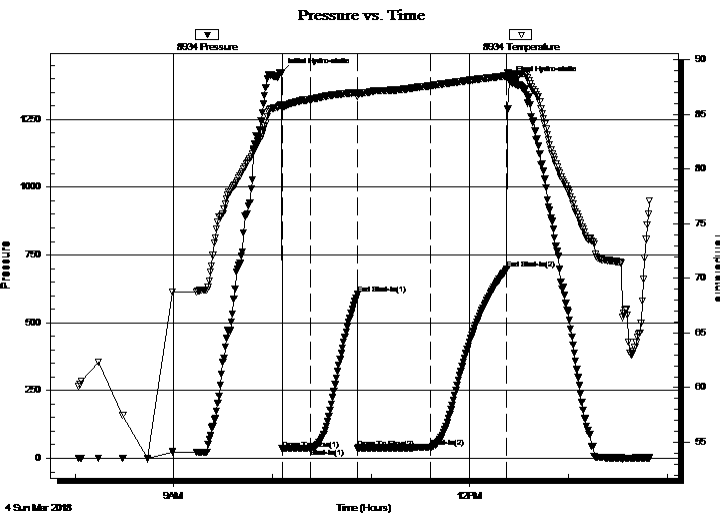
25-7S-16W Rooks,KS
Circle Trust #1
Job Ticket: 63756 **DST#: 2**
Test Start: 2018.03.04 @ 08:02:00

GENERAL INFORMATION:

Formation: **Topeka**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:06:15
Time Test Ended: 13:49:30
Interval: **2877.00 ft (KB) To 2928.00 ft (KB) (TVD)**
Total Depth: 2966.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Straddle (Reset)
Tester: Spencer J. Staab
Unit No: 84
Reference Elevations: 1870.00 ft (KB)
1862.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8934 Outside
Press@RunDepth: 39.78 psig @ 2910.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2018.03.04 End Date: 2018.03.04 Last Calib.: 2018.03.04
Start Time: 08:02:15 End Time: 13:49:30 Time On Btm: 2018.03.04 @ 10:05:15
Time Off Btm: 2018.03.04 @ 12:24:00

TEST COMMENT: 15-IF-Weak Blow ; Built to 2 3/4"
30-ISI-No Return
45-FF-Weak Blow ; Built to 1/2"
45-FSI-No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1421.66	85.90	Initial Hydro-static
1	33.56	85.70	Open To Flow (1)
18	37.34	86.38	Shut-In(1)
47	604.32	87.03	End Shut-In(1)
47	36.88	86.66	Open To Flow (2)
91	39.78	87.63	Shut-In(2)
138	698.17	88.54	End Shut-In(2)
139	1394.97	88.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OSM 100%M	0.07

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

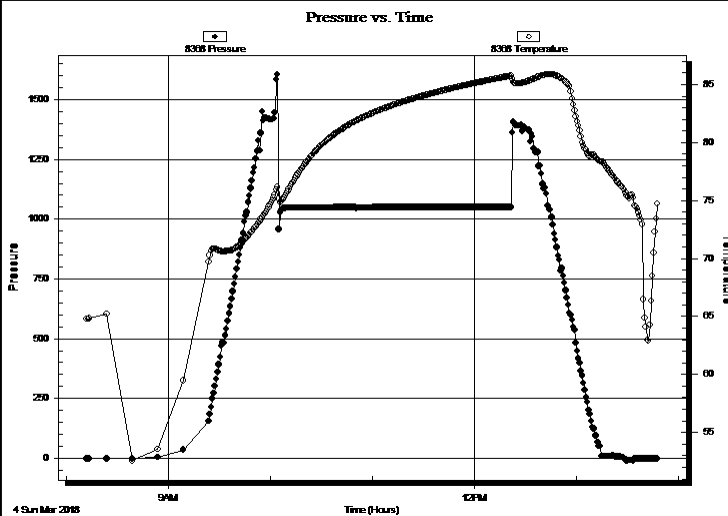
25-7S-16W Rooks, KS
Circle Trust #1
 Job Ticket: 63756 **DST#: 2**
 Test Start: 2018.03.04 @ 08:02:00

GENERAL INFORMATION:

Formation: **Topeka**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Straddle (Reset)
 Time Tool Opened: 10:06:15
 Tester: Spencer J. Staab
 Time Test Ended: 13:49:30
 Unit No: 84
 Interval: **2877.00 ft (KB) To 2928.00 ft (KB) (TVD)**
 Reference Elevations: 1870.00 ft (KB)
 Total Depth: 2966.00 ft (KB) (TVD)
 1862.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 8.00 ft

Serial #: 8368 Below (Straddle)
 Press@RunDepth: psig @ 2930.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.03.04 End Date: 2018.03.04 Last Calib.: 2018.03.04
 Start Time: 08:12:15 End Time: 13:48:30 Time On Btm:
 Time Off Btm:

TEST COMMENT: 15-IF-Weak Blow ; Built to 2 3/4"
 30-ISI-No Return
 45-FF-Weak Blow ; Built to 1/2"
 45-FSI-No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OSM 100%M	0.07

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.
PO Box 47
Great Bend KS 67530+0047
ATTN: Brad Rine

25-7S-16W Rooks,KS
Circle Trust #1
Job Ticket: 63756 **DST#: 2**
Test Start: 2018.03.04 @ 08:02:00

Tool Information

Drill Pipe:	Length: 2625.00 ft	Diameter: 3.80 inches	Volume: 36.82 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 250.00 ft	Diameter: 2.75 inches	Volume: 1.84 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: 74000.00 lb
			<u>Total Volume: 38.66 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	2877.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	2928.00 ft			
Interval between Packers:	51.00 ft			
Tool Length:	117.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Change Over Sub	1.00			2850.00	
Shut In Tool	5.00			2855.00	
Hydraulic tool	5.00			2860.00	
Jars	5.00			2865.00	
Safety Joint	3.00			2868.00	
Packer	5.00			2873.00	28.00 Bottom Of Top Packer
Packer	4.00			2877.00	
Stubb	1.00			2878.00	
Change Over Sub	1.00			2879.00	
Drill Pipe	31.00			2910.00	
Recorder	0.00	9120	Inside	2910.00	
Recorder	0.00	8934	Outside	2910.00	
Change Over Sub	1.00			2911.00	
Perforations	13.00			2924.00	
Blank Off Sub	1.00			2925.00	
top of s.packer	3.00			2928.00	51.00 Tool Interval
Packer	0.00			2928.00	
Stubb	1.00			2929.00	
Change Over Sub	1.00			2930.00	
Recorder	0.00	8368	Below	2930.00	
Drill Pipe	32.00			2962.00	
Change Over Sub	1.00			2963.00	
Bullnose	3.00			2966.00	38.00 Bottom Packers & Anchor
Total Tool Length:	117.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

25-7S-16W Rooks,KS
Circle Trust #1
Job Ticket: 63756 **DST#: 2**
Test Start: 2018.03.04 @ 08:02:00

Mud and Cushion Information

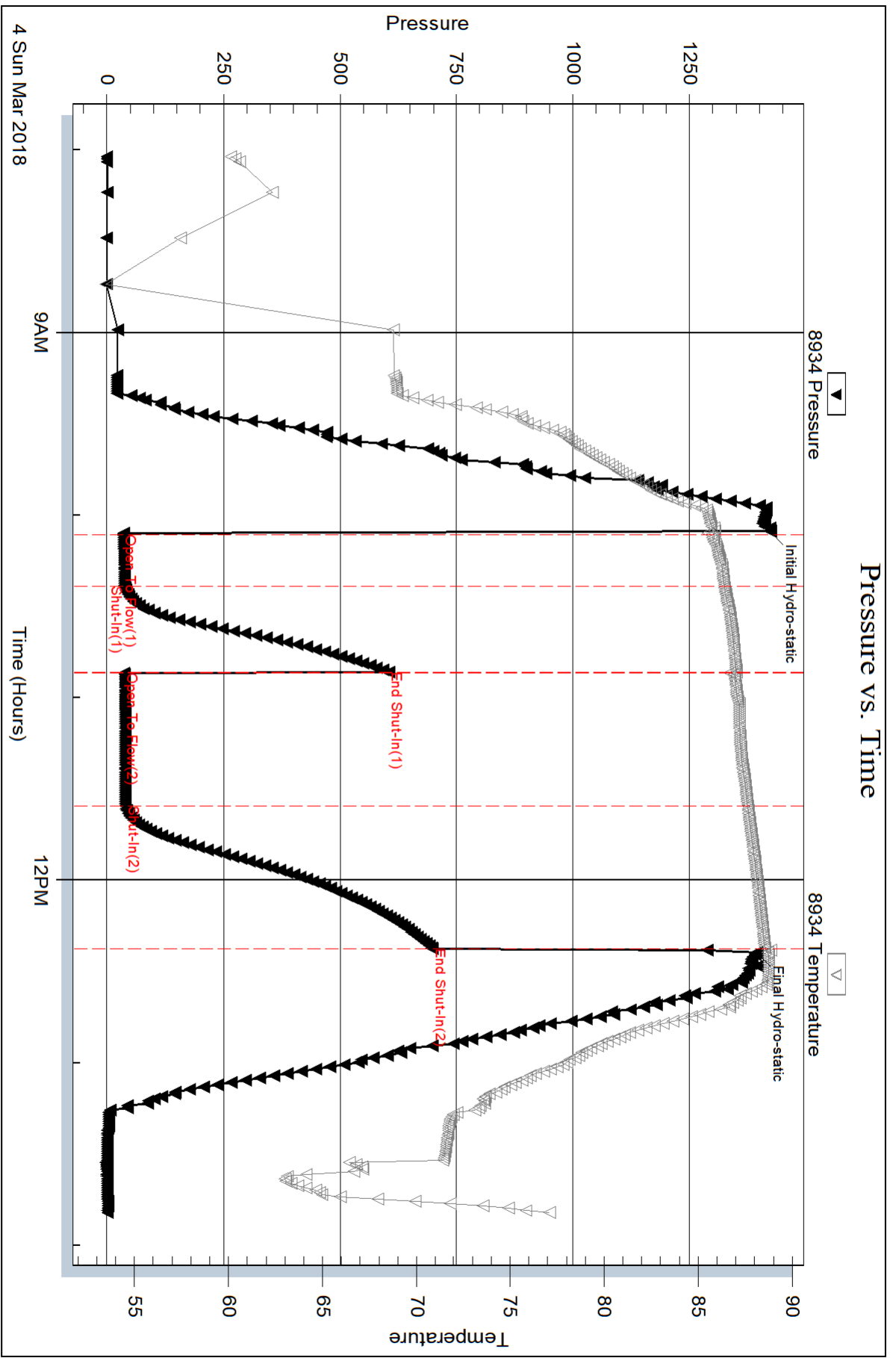
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.39 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2200.00 ppm			
Filter Cake: inches			

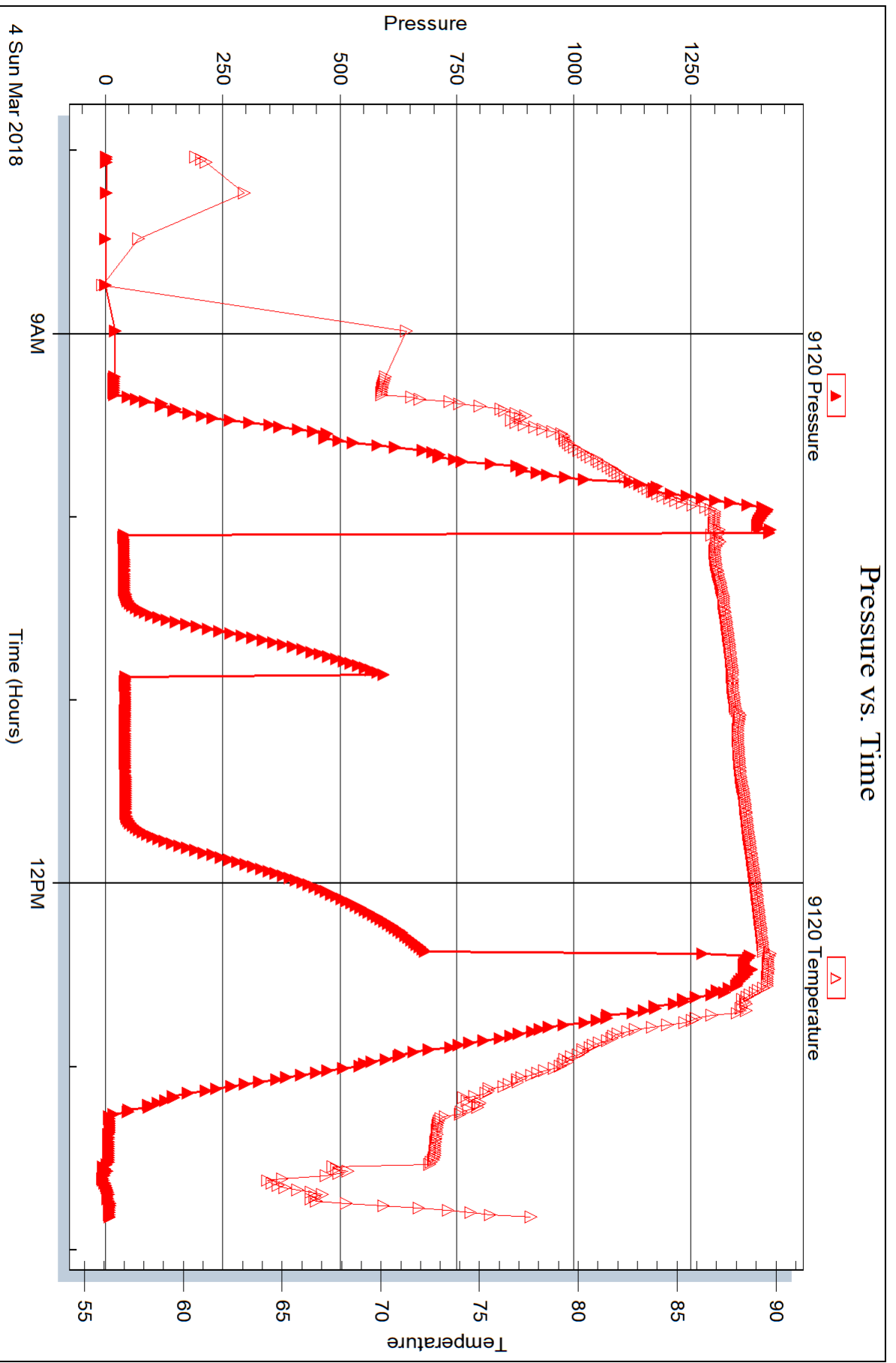
Recovery Information

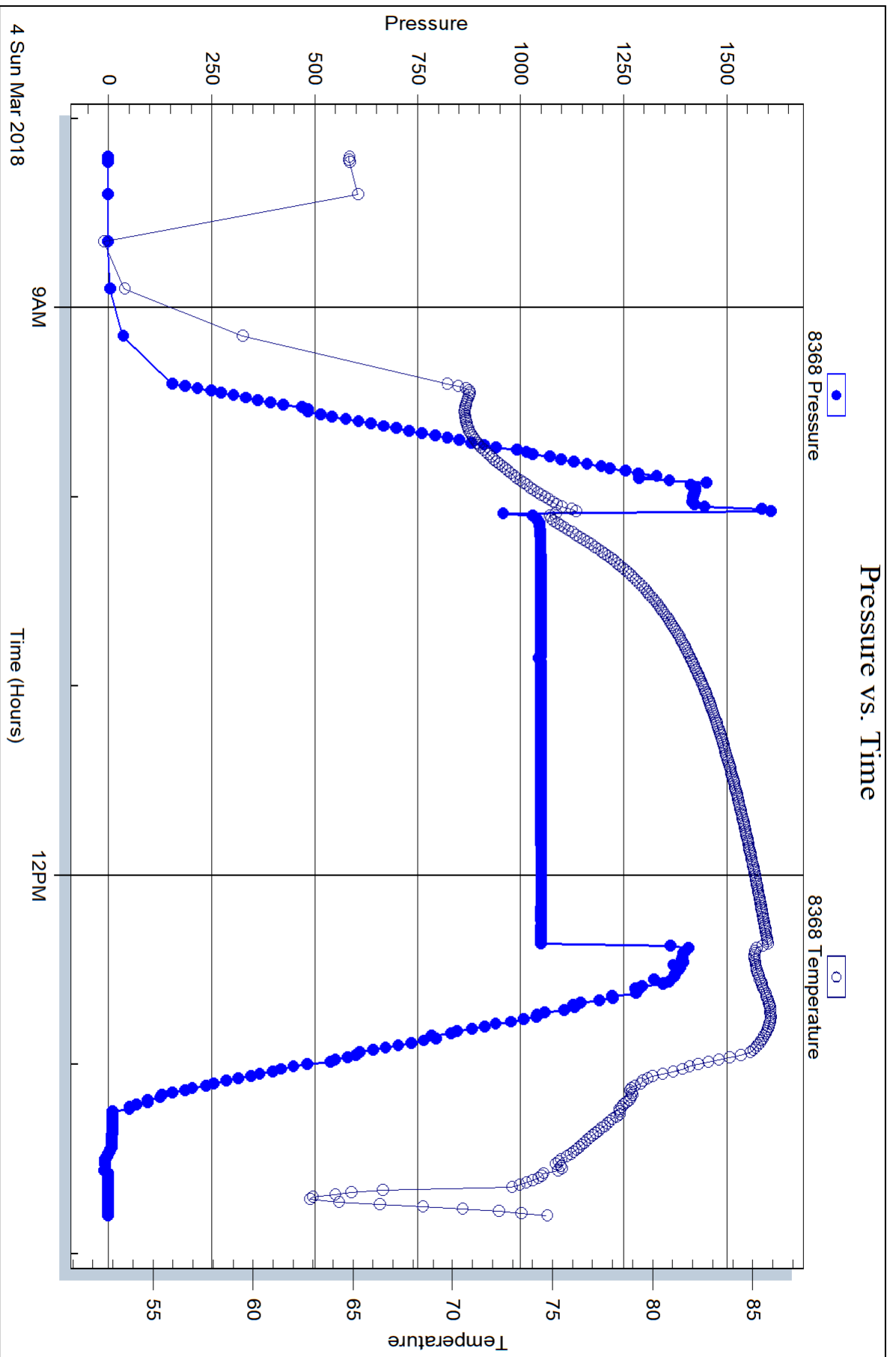
Recovery Table

Length ft	Description	Volume bbl
10.00	OSM 100%M	0.073

Total Length: 10.00 ft Total Volume: 0.073 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: 2#LCM









DRILL STEM TEST REPORT

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

PO Box 47
Great Bend KS 67530+0047

ATTN: Brad Rine

Circle Trust #1

25-7S-16W Rooks,KS

Start Date: 2018.03.05 @ 00:21:00

End Date: 2018.03.05 @ 05:40:45

Job Ticket #: 63757 DST #: 3

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

Printed: 2018.03.09 @ 10:01:56



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

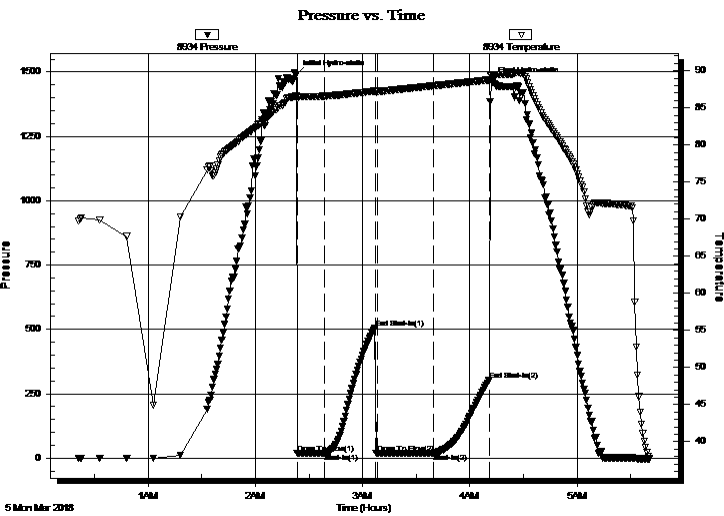
25-7S-16W Rooks,KS
Circle Trust #1
 Job Ticket: 63757 **DST#: 3**
 Test Start: 2018.03.05 @ 00:21:00

GENERAL INFORMATION:

Formation: **Lansing 'A'**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:23:15
 Time Test Ended: 05:40:45
 Interval: **3039.00 ft (KB) To 3071.00 ft (KB) (TVD)**
 Total Depth: 3071.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Spencer J. Staab
 Unit No: 84
 Reference Elevations: 1870.00 ft (KB)
 1862.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8934 Outside
 Press@RunDepth: 19.09 psig @ 3040.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.03.05 End Date: 2018.03.05 Last Calib.: 2018.03.05
 Start Time: 00:21:15 End Time: 05:40:45 Time On Btm: 2018.03.05 @ 02:23:00
 Time Off Btm: 2018.03.05 @ 04:12:00

TEST COMMENT: 15-IF-Weak Blow ; Built to 1/4"
 30-ISI-No Return
 30-FF-Weak Surface Blow
 30-FSI-No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1490.70	86.67	Initial Hydro-static
1	18.46	86.13	Open To Flow (1)
16	19.02	86.59	Shut-In(1)
44	506.20	87.27	End Shut-In(1)
46	18.97	87.19	Open To Flow (2)
77	19.09	87.97	Shut-In(2)
108	303.01	88.76	End Shut-In(2)
109	1464.60	89.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud 100%M	0.01

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

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

25-7S-16W Rooks,KS
Circle Trust #1
Job Ticket: 63757 **DST#: 3**
Test Start: 2018.03.05 @ 00:21:00

Tool Information

Drill Pipe:	Length: 2782.00 ft	Diameter: 3.80 inches	Volume: 39.02 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 250.00 ft	Diameter: 2.75 inches	Volume: 1.84 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:	56000.00 lb
			<u>Total Volume: 40.86 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	3039.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	32.00 ft				
Tool Length:	60.00 ft				
Number of Packers:	1	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3012.00	
Shut In Tool	5.00			3017.00	
Hydraulic tool	5.00			3022.00	
Jars	5.00			3027.00	
Safety Joint	3.00			3030.00	
Packer	5.00			3035.00	28.00 Bottom Of Top Packer
Packer	4.00			3039.00	
Stubb	1.00			3040.00	
Recorder	0.00	9120	Inside	3040.00	
Recorder	0.00	8934	Outside	3040.00	
Perforations	28.00			3068.00	
Bullnose	3.00			3071.00	32.00 Bottom Packers & Anchor

Total Tool Length: 60.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

25-7S-16W Rooks,KS
Circle Trust #1
Job Ticket: 63757 **DST#: 3**
Test Start: 2018.03.05 @ 00:21:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.39 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2200.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

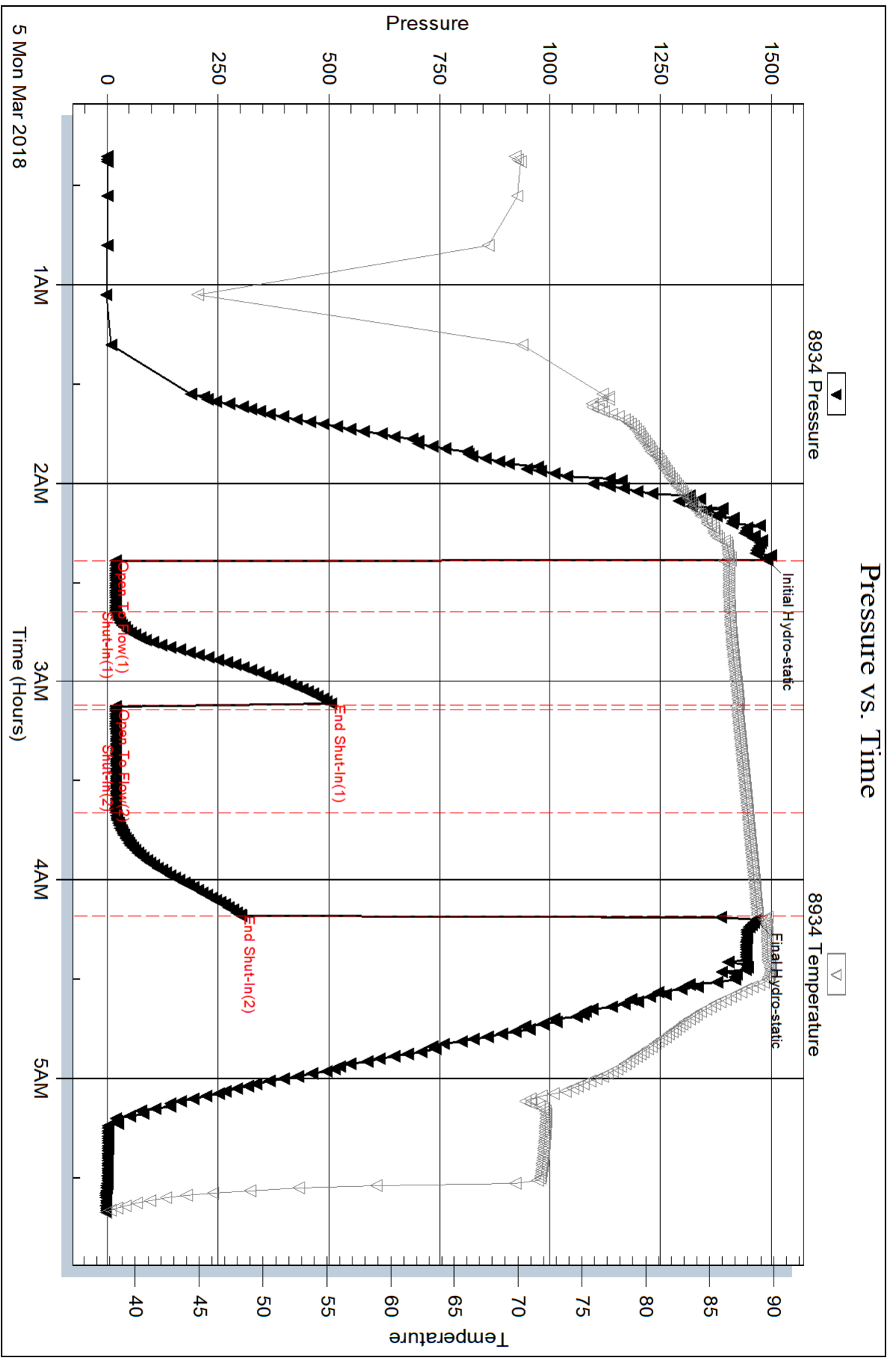
Length ft	Description	Volume bbl
2.00	Mud 100%M	0.015

Total Length: 2.00 ft Total Volume: 0.015 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: 2#LCM



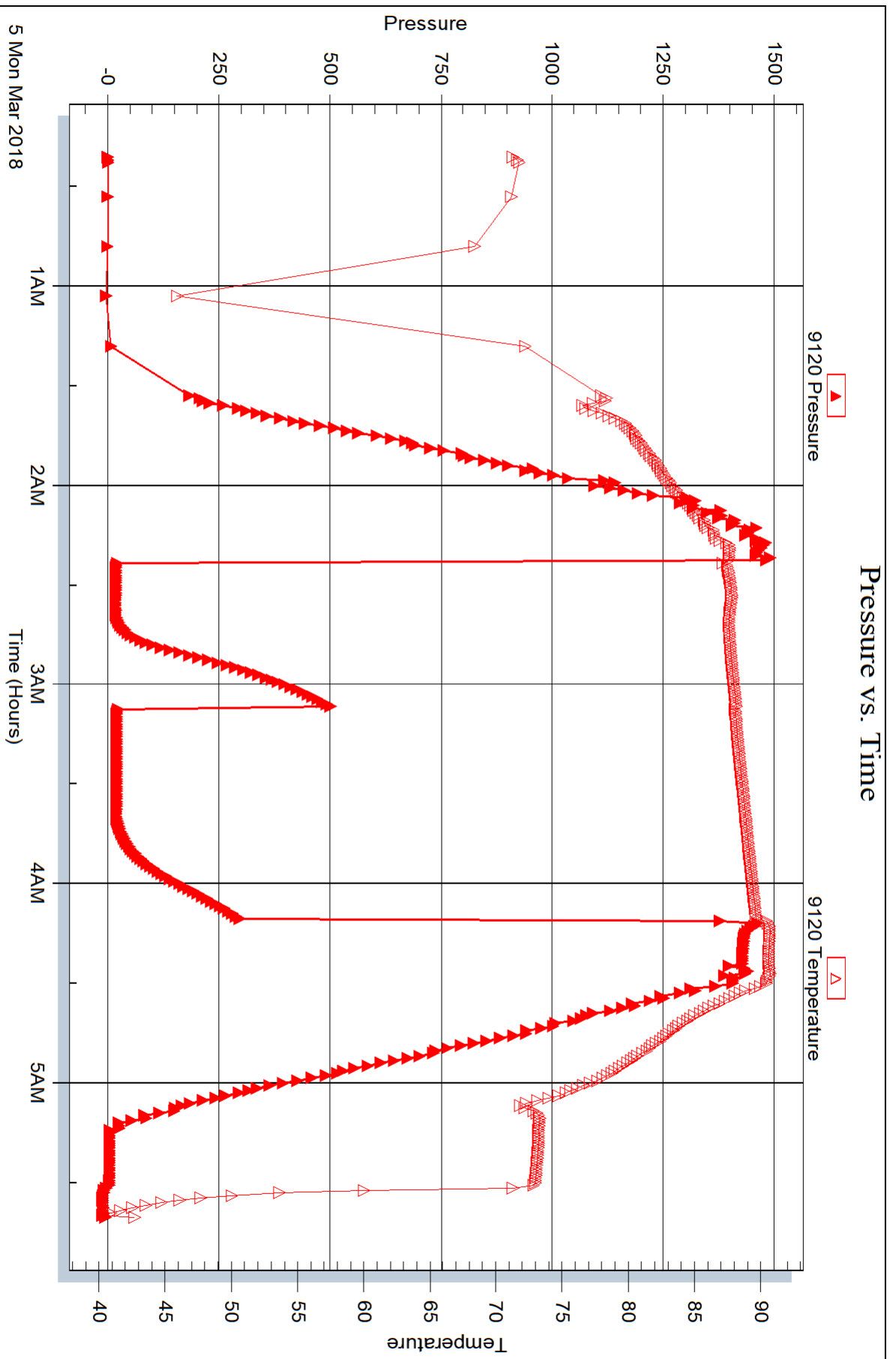
Serial #: 9120

Inside

Carmen Schmitt, Inc.

Circle Trust#1

DST Test Number: 3





DRILL STEM TEST REPORT

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

PO Box 47
Great Bend KS 67530+0047

ATTN: Brad Rine

Circle Trust #1

25-7S-16W Rooks,KS

Start Date: 2018.03.05 @ 13:49:00

End Date: 2018.03.05 @ 19:02:15

Job Ticket #: 63758 DST #: 4

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

Printed: 2018.03.09 @ 10:01:31



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

25-7S-16W Rooks,KS
Circle Trust #1
 Job Ticket: 63758 **DST#: 4**
 Test Start: 2018.03.05 @ 13:49:00

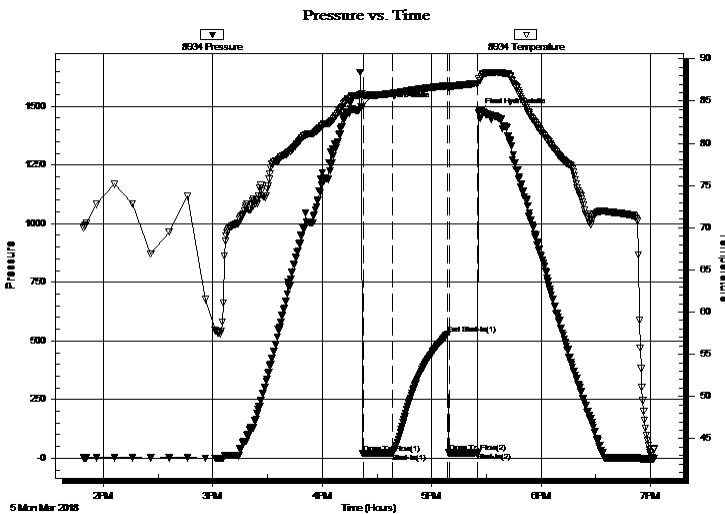
GENERAL INFORMATION:

Formation: **Lansing 'B-C'**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 16:22:30 Tester: Spencer J. Staab
 Time Test Ended: 19:02:15 Unit No: 84
 Interval: **3066.00 ft (KB) To 3106.00 ft (KB) (TVD)** Reference Elevations: 1870.00 ft (KB)
 Total Depth: 2825.00 ft (KB) (TVD) 1862.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8934 Inside
 Press@RunDepth: 22.02 psig @ 3070.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.03.05 End Date: 2018.03.05 Last Calib.: 2018.03.05
 Start Time: 13:49:15 End Time: 19:02:15 Time On Btm: 2018.03.05 @ 16:21:45
 Time Off Btm: 2018.03.05 @ 17:25:45

TEST COMMENT: 15-IF-Weak Blow ; Built to 1/2"
 30-ISI-No Return
 10-FF-No Blow ; Pulled tool

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1498.36	85.90	Initial Hydro-static
1	20.37	85.63	Open To Flow (1)
17	22.02	85.90	Shut-In(1)
47	530.19	86.84	End Shut-In(1)
48	23.21	86.75	Open To Flow (2)
64	23.85	87.11	Shut-In(2)
64	1474.42	87.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100%M	0.07

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

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

25-7S-16W Rooks,KS
Circle Trust #1
Job Ticket: 63758 **DST#: 4**
Test Start: 2018.03.05 @ 13:49:00

Tool Information

Drill Pipe:	Length: 2814.00 ft	Diameter: 3.80 inches	Volume: 39.47 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 250.00 ft	Diameter: 2.75 inches	Volume: 1.84 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: 72000.00 lb
			<u>Total Volume: 41.31 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3066.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	68.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3039.00	
Shut In Tool	5.00			3044.00	
Hydraulic tool	5.00			3049.00	
Jars	5.00			3054.00	
Safety Joint	3.00			3057.00	
Packer	5.00			3062.00	28.00 Bottom Of Top Packer
Packer	4.00			3066.00	
Stubb	1.00			3067.00	
Perforations	2.00			3069.00	
Change Over Sub	1.00			3070.00	
Recorder	0.00	9120	Inside	3070.00	
Recorder	0.00	8934	Inside	3070.00	
Drill Pipe	32.00			3102.00	
Change Over Sub	1.00			3103.00	
Bullnose	3.00			3106.00	40.00 Bottom Packers & Anchor

Total Tool Length: 68.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

25-7S-16W Rooks,KS
Circle Trust #1
Job Ticket: 63758 **DST#: 4**
Test Start: 2018.03.05 @ 13:49:00

Mud and Cushion Information

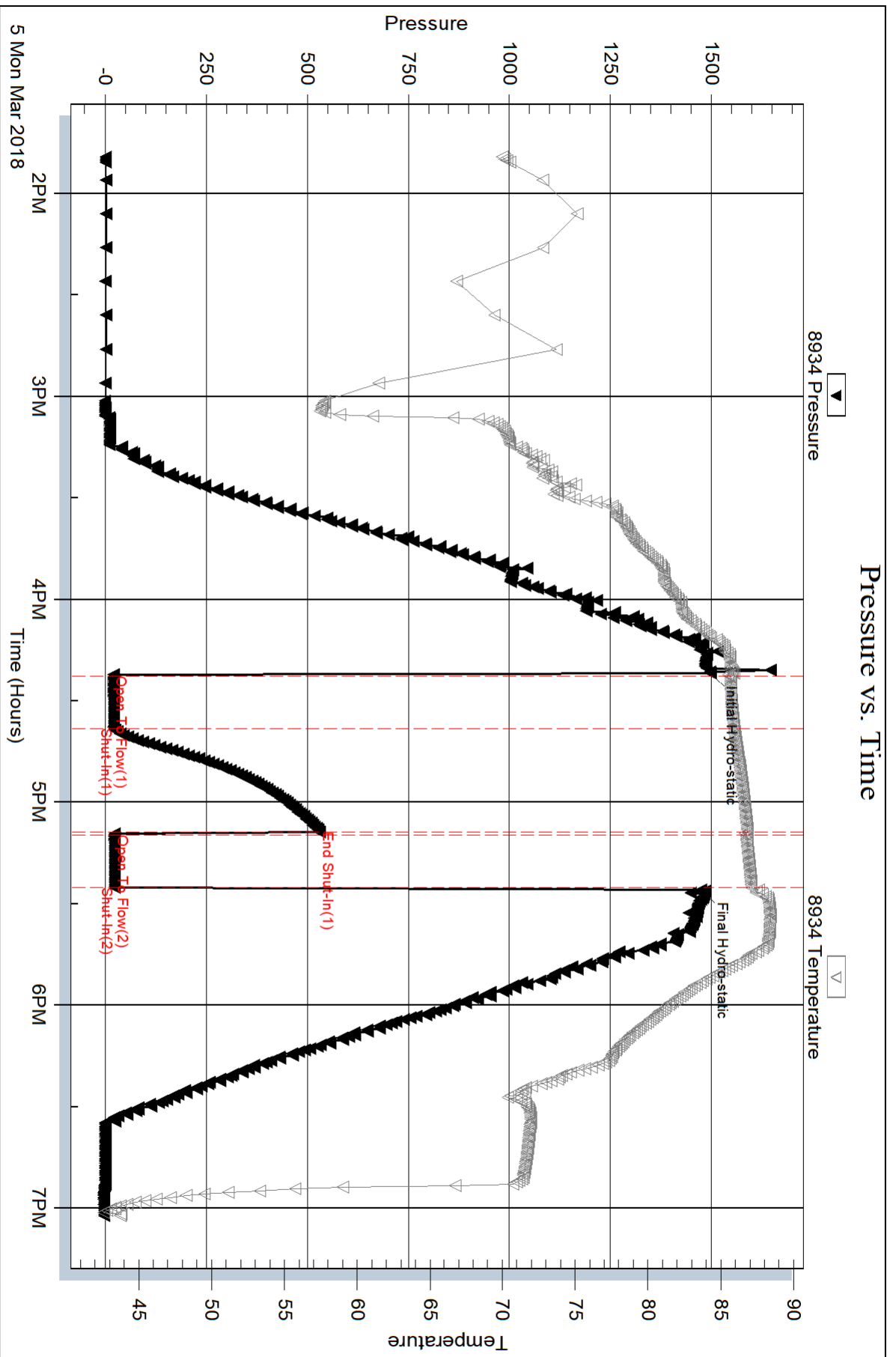
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.39 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2400.00 ppm			
Filter Cake: inches			

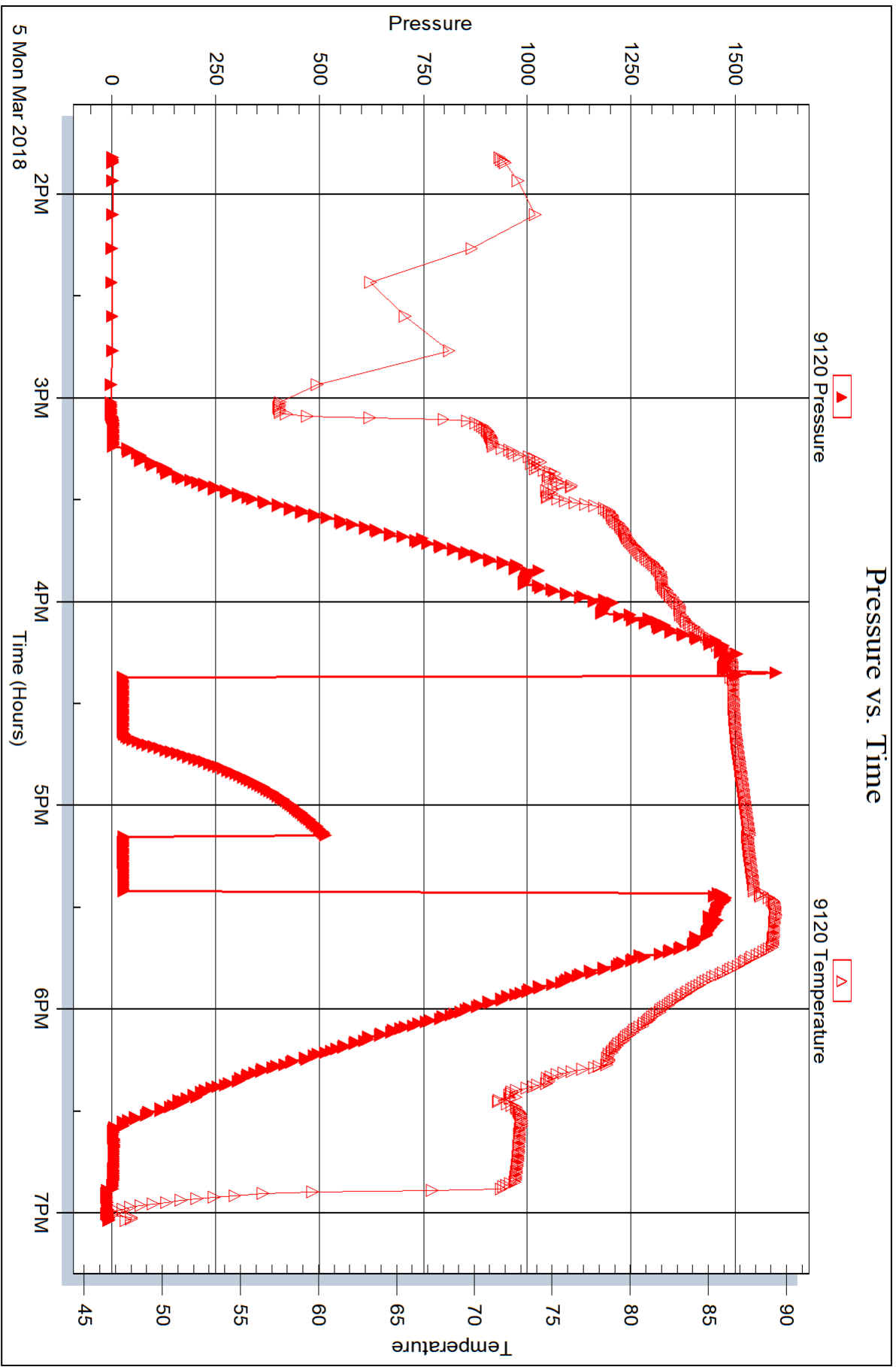
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud 100%M	0.073

Total Length: 10.00 ft Total Volume: 0.073 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: 2#LCM







DRILL STEM TEST REPORT

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

PO Box 47
Great Bend KS 67530+0047

ATTN: Brad Rine

Circle Trust #1

25-7S-16W Rooks,KS

Start Date: 2018.03.06 @ 04:10:00

End Date: 2018.03.06 @ 11:59:30

Job Ticket #: 63759 DST #: 5

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

Printed: 2018.03.09 @ 10:01:12



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

25-7S-16W Rooks,KS
Circle Trust #1
 Job Ticket: 63759 **DST#: 5**
 Test Start: 2018.03.06 @ 04:10:00

GENERAL INFORMATION:

Formation: **LKC 'E-F'**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:52:00
 Time Test Ended: 11:59:30
 Interval: **3117.00 ft (KB) To 3155.00 ft (KB) (TVD)**
 Total Depth: 3155.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Spencer J. Staab
 Unit No: 84
 Reference Elevations: 1870.00 ft (KB)
 1862.00 ft (CF)
 KB to GR/CF: 8.00 ft

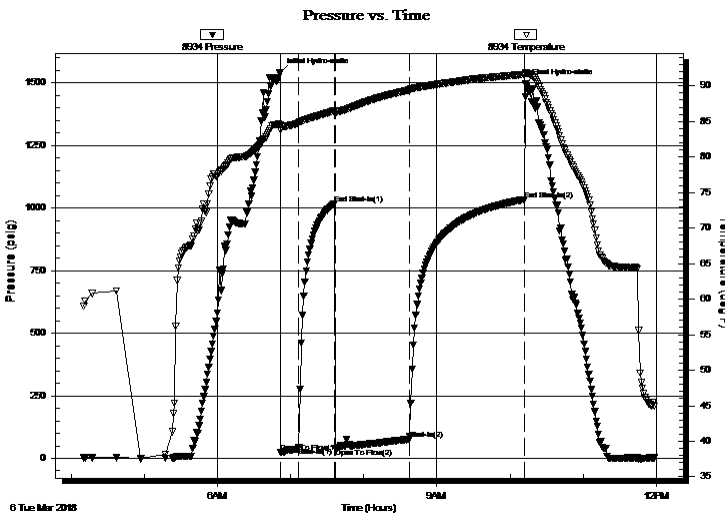
Serial #: 8934

Inside

Press@RunDepth: 75.84 psig @ 3120.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.03.06 End Date: 2018.03.06 Last Calib.: 2018.03.06
 Start Time: 04:10:15 End Time: 11:59:30 Time On Btm: 2018.03.06 @ 06:51:45
 Time Off Btm: 2018.03.06 @ 10:13:00

TEST COMMENT: 15-IF-Weak Blow ; Built to 2 1/4"
 30-ISI-No Return
 60-FF-Weak Blow ; Built to 6 1/2"
 90FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1541.10	84.53	Initial Hydro-static
1	23.36	83.79	Open To Flow (1)
15	44.30	84.79	Shut-In(1)
44	1017.52	86.49	End Shut-In(1)
45	38.95	86.30	Open To Flow (2)
106	75.84	89.43	Shut-In(2)
200	1033.44	91.60	End Shut-In(2)
202	1494.70	91.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
125.00	MW 40%M 60%W	0.92

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

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

25-7S-16W Rooks,KS
Circle Trust #1
Job Ticket: 63759 **DST#: 5**
Test Start: 2018.03.06 @ 04:10:00

Tool Information

Drill Pipe:	Length: 2847.00 ft	Diameter: 3.80 inches	Volume: 39.94 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 250.00 ft	Diameter: 2.75 inches	Volume: 1.84 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: 72000.00 lb
			<u>Total Volume: 41.78 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3117.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	66.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

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

Change Over Sub	1.00			3090.00	
Shut In Tool	5.00			3095.00	
Hydraulic tool	5.00			3100.00	
Jars	5.00			3105.00	
Safety Joint	3.00			3108.00	
Packer	5.00			3113.00	28.00 Bottom Of Top Packer
Packer	4.00			3117.00	
Stubb	1.00			3118.00	
Perforations	1.00			3119.00	
Change Over Sub	1.00			3120.00	
Recorder	0.00	9120	Inside	3120.00	
Recorder	0.00	8934	Inside	3120.00	
Drill Pipe	31.00			3151.00	
Change Over Sub	1.00			3152.00	
Bullnose	3.00			3155.00	38.00 Bottom Packers & Anchor

Total Tool Length: 66.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

25-7S-16W Rooks,KS
Circle Trust #1
Job Ticket: 63759 **DST#: 5**
Test Start: 2018.03.06 @ 04:10:00

Mud and Cushion Information

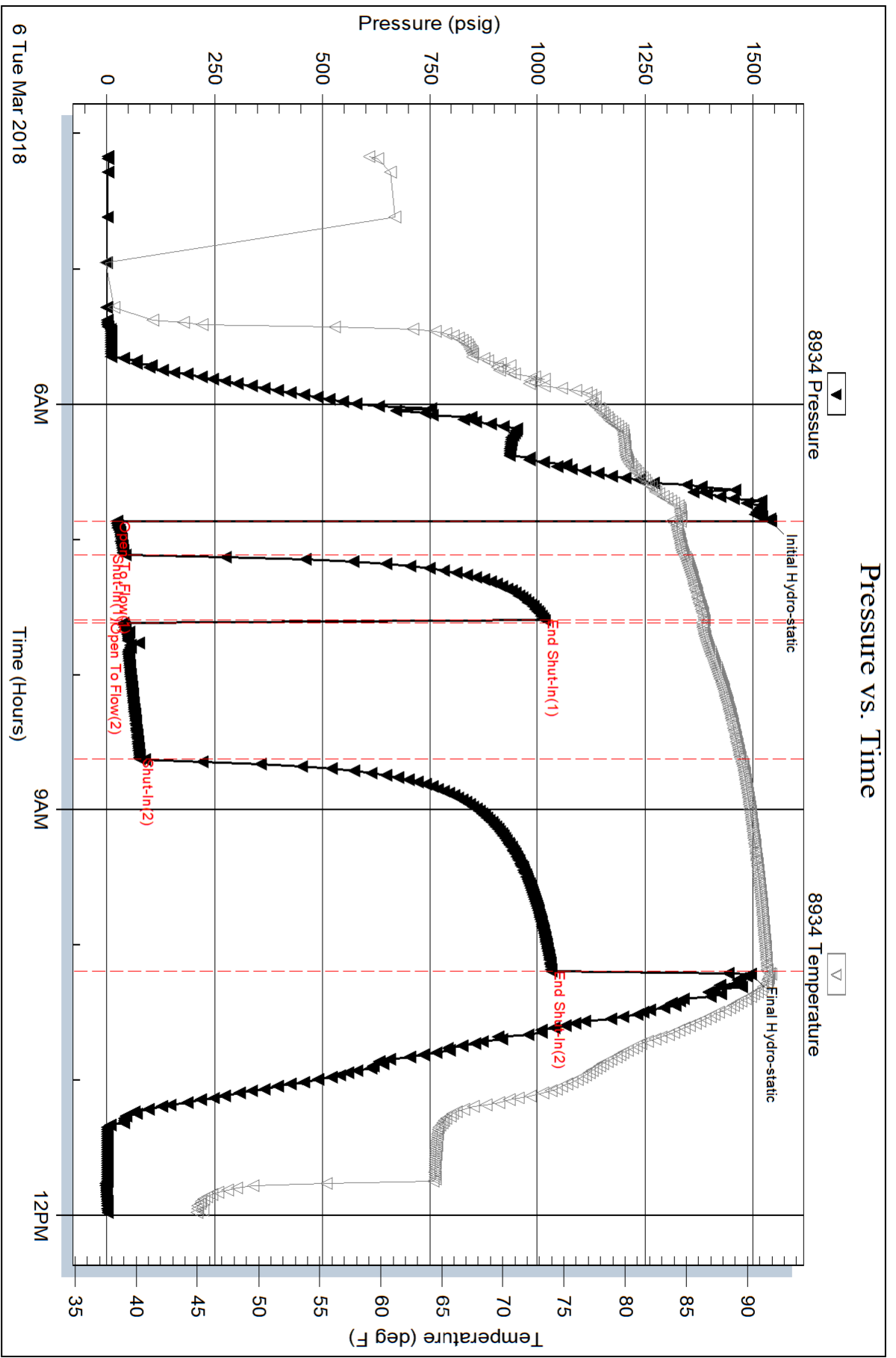
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	42000 ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.39 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2400.00 ppm			
Filter Cake: inches			

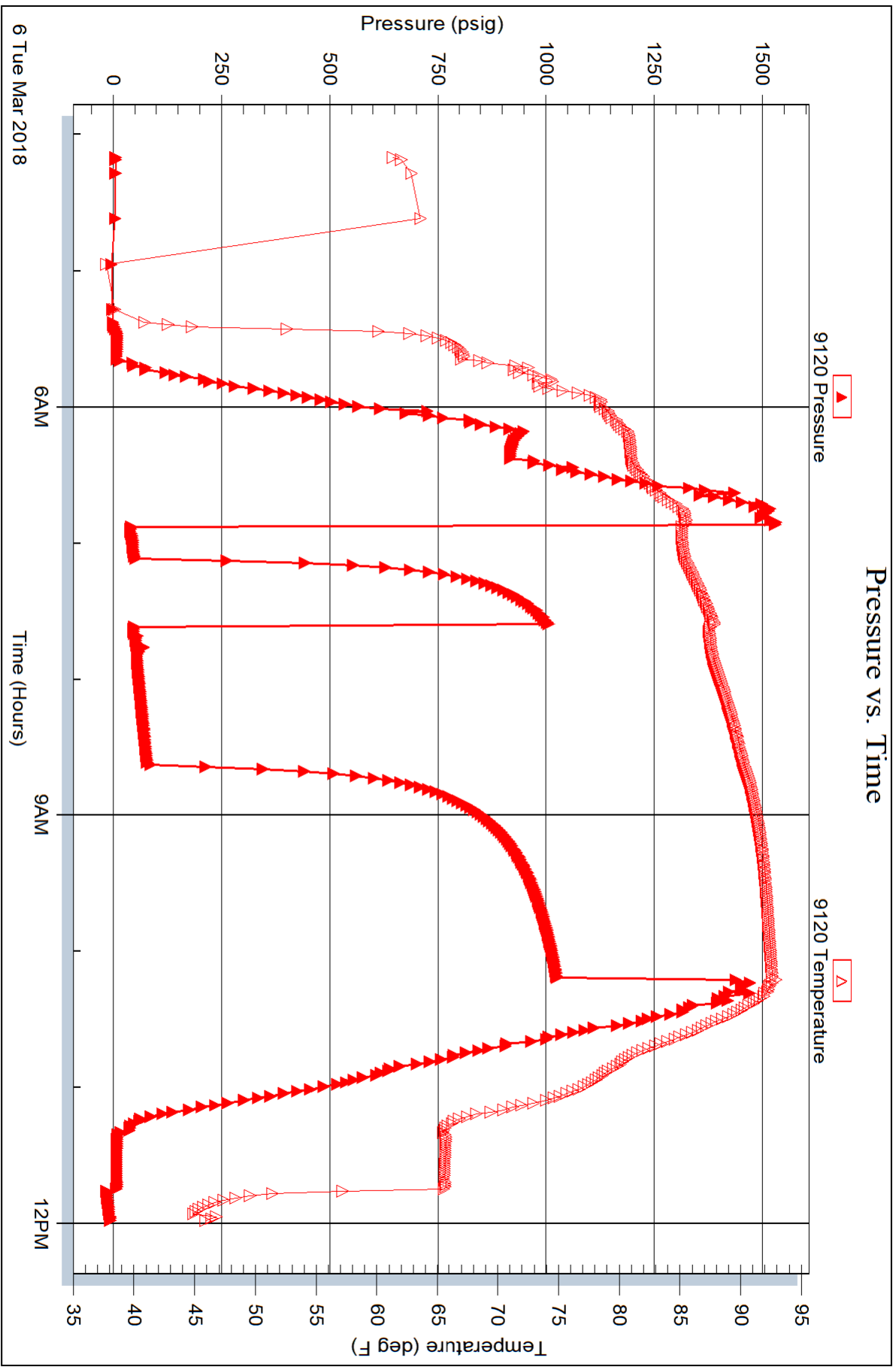
Recovery Information

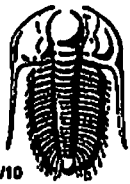
Recovery Table

Length ft	Description	Volume bbl
125.00	MW 40%M 60%W	0.918

Total Length: 125.00 ft Total Volume: 0.918 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: 2#LCM
 Rw = .272@45degrees







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63755

Well Name & No. Circle Trust #1 Test No. 1 Date 03/03/2018
 Company Carmen Schmitt, Inc. Elevation 1870 KB 1862 GL
 Address PO BOX 47 Great Bend KS 67530 +0047
 Co. Rep / Geo. Brad Rine Rig Discovery #2
 Location: Sec. 25 Twp 7s Rge. 16w Co. Rooks State KS

Interval Tested 2809' - 2825' Zone Tested Topeka 'B'
 Anchor Length 16' Drill Pipe Run 2563' Mud Wt. 8.9
 Top Packer Depth 2804' Drill Collars Run - Vis 57
 Bottom Packer Depth 2801' Wt. Pipe Run 250' WL 6.4
 Total Depth 2825' Chlorides 2,200 ppm System LCM 2#

Blow Description: 67- No Blow, Flushed tool, no help
1st- No Return
77- Weak Blow, Built to 1/2"
75d- No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>10'</u>	<u>SOCM</u>	<u>5</u>	<u>5</u>	<u>95</u>	<u>95</u>
<u>2'</u>	<u>HMLCO</u>	<u>55</u>	<u>55</u>	<u>45</u>	<u>45</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 12' BHT 86° Gravity - API RW - @ - ° F Chlorides - ppm

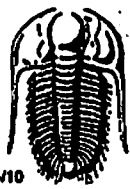
(A) Initial Hydrostatic 1353 Test 1050 T-On Location 10:58
 (B) First Initial Flow 25 Jars 250 T-Started 11:20
 (C) First Final Flow 24 Safety Joint 75 T-Open 13:25
 (D) Initial Shut-In 967 Circ Sub _____ T-Pulled 15:10
 (E) Second Initial Flow 23 Hourly Standby _____ T-Out 16:50
 (F) Second Final Flow 23 Mileage 108 RT 108 Comments _____
 (G) Final Shut-In 951 Sampler _____
 (H) Final Hydrostatic 1351 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 15
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30
 Sub Total 0
 Total 1483
 MP/DST Disc't _____
 Sub Total 1483

Approved By _____ Our Representative James J. Stool Thanks!

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785-259-0056



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63756

Well Name & No. Circle Trust #1 Test No. 2 Date 03/04/2018
 Company Carmen Schmitt Inc Elevation 1870 KB 1862 GL
 Address PO BOX 47 Great Bend Ks 67530 +0047
 Co. Rep / Geo. Brad Rine Rig Discovery #2
 Location: Sec. 25 Twp 7A Rge. 16w Co. Rocks State Ks

Interval Tested 2877' - 2928' 38' Tail Zone Tested Topeka
 Anchor Length 51' Drill Pipe Run 2625' Mud Wt. 8.9
 Top Packer Depth 2877' Drill Collars Run - Vis 57
 Bottom Packer Depth 2928' Wt. Pipe Run 250' WL 6.4
 Total Depth 2966' Chlorides 2,200 ppm System LCM 2H

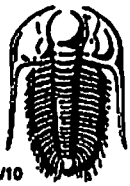
Blow Description 27- Weak Blow; Built to 2 1/2"
2SD- No Return
77- Weak Blow; Built to 1/2"
7SD- No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>10'</u>	<u>OSM</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 10' BHT 880 Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic <u>1421</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>07:35</u>
(B) First Initial Flow <u>33</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>08:02</u>
(C) First Final Flow <u>37</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>09:55</u>
(D) Initial Shut-In <u>604</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>12:10</u>
(E) Second Initial Flow <u>36</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>13:37</u>
(F) Second Final Flow <u>39</u>	<input type="checkbox"/> Mileage <u>108 RT</u> 108	Comments
(G) Final Shut-In <u>698</u>	<input type="checkbox"/> Sampler	<input type="checkbox"/> Ruined Shale Packer
(H) Final Hydrostatic <u>1394</u>	<input checked="" type="checkbox"/> Straddle <u>600</u>	<input type="checkbox"/> Ruined Packer
Initial Open <u>15</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	Sub Total <u>0</u>
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder	Total <u>2333</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby	MP/DST Disc't
	<input type="checkbox"/> Accessibility	
	Sub Total <u>2333</u>	

Approved By _____ Our Representative James J. Steel Thanks
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63757

Well Name & No. Circle Trust #1 Test No. 3 Date 03/05/2018
 Company Carmen Schmitt Inc Elevation 1870 KB 1862 GL
 Address PO BOX 47 Great Bend Ks 67530 10047
 Co. Rep / Geo. Brad Rine Rig _____
 Location: Sec. 25 Twp 7s Rge. 16w Co. Rooks State Ks

Interval Tested 3039' - 3071' Zone Tested Laning 'A'
 Anchor Length 32' Drill Pipe Run 2782' Mud Wt. 8.9
 Top Packer Depth 3034' Drill Collars Run — Vis 57
 Bottom Packer Depth 3039' Wt. Pipe Run 250' WL 6.4
 Total Depth 3071' Chlorides 2,200 ppm System LCM 2H

Blow Description 79-Weak Blow, Built for 1/4"
75D- No Return
77- Weak Surface Blow
75D- No Return

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

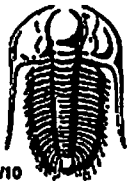
Rec Total 2' BHT 88° Gravity — API RW — @ — F Chlorides — ppm

(A) Initial Hydrostatic 1490 Test 1050 T-On Location 00:15
 (B) First Initial Flow 18 Jars 250 T-Started 00:21
 (C) First Final Flow 19 Safety Joint 75 T-Open 02:22
 (D) Initial Shut-In 506 Circ Sub _____ T-Pulled 04:07
 (E) Second Initial Flow 18 Hourly Standby _____ T-Out 05:38
 (F) Second Final Flow 19 Mileage 108.27 108
 (G) Final Shut-In 303 Sampler _____
 (H) Final Hydrostatic 1464 Straddle _____
 Shale Packer 250 Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____

Initial Open 15
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30
 Sub Total 1733
 Sub Total 1733
 Total 1733
 MP/DST Disc't _____

Approved By _____ Our Representative Spencer J. Stahl Thanks!
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63758

Well Name & No. Circle Trust #1 Test No. 4 Date 03/05/2015
 Company Cyren Schmitt, Inc Elevation 1870 KB 1862 GL
 Address PO BOX 47 Great Bend Ks 67530 +0047
 Co. Rep / Geo. Brad Rine Rig Discovery #2
 Location: Sec. 25 Twp 7A Rge. 16w Co. Rooks State Ks

Interval Tested 3066' - 3106' Zone Tested Lansing 'B + C'
 Anchor Length 40' Drill Pipe Run _____ Mud Wt. 9.0
 Top Packer Depth 3061' Drill Collars Run _____ Vis 55
 Bottom Packer Depth 3066' Wt. Pipe Run 250' WL 6.4
 Total Depth 3106' Chlorides 2400 ppm System LCM 2#

Blow Description 77- Weak Blow, Built to 1/2"
75D- No Return
77- No Blow, Pulled tool
75D- _____

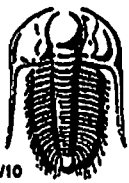
Rec	Feet of	%gas	%oil	%water	%mud
<u>10'</u>	<u>Mud</u>			<u>100</u>	
____	____	____	____	____	____
____	____	____	____	____	____
____	____	____	____	____	____
____	____	____	____	____	____

Rec Total 10' BHT 87° Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1498</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>13:44</u>
(B) First Initial Flow <u>20</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>13:49</u>
(C) First Final Flow <u>22</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>16:21</u>
(D) Initial Shut-In <u>530</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>17:17</u>
(E) Second Initial Flow <u>23</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>19:00</u>
(F) Second Final Flow <u>23</u>	<input checked="" type="checkbox"/> Mileage <u>108R7</u> 108	Comments _____
(G) Final Shut-In _____	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>1474</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>15</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>10</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In _____	<input type="checkbox"/> Day Standby _____	Total <u>1733</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1733</u>	

Approved By _____ Our Representative Spencer J. Stahl Thanks!
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63759

Well Name & No. Circle Trust # 1 Test No. 5 Date 03/06/2018
 Company Carmen Schmitt, Inc Elevation 1870 KB 1862 GL
 Address PO BOX 47 Great Bend Ks 67530 + 0047
 Co. Rep / Geo. Brad Rine Rig Discovery #2
 Location: Sec. 25 Twp 7s Rge. 16w Co. Hook State Ks

Interval Tested 3117' - 3155' Zone Tested Lansing 'E' & '7'
 Anchor Length 38' Drill Pipe Run 2847' Mud Wt. 9.0
 Top Packer Depth 3112' Drill Collars Run — Vis 55
 Bottom Packer Depth 3117' Wt. Pipe Run 250' WL 6.4
 Total Depth 3155' Chlorides 2400 ppm System LCM 2#

Blow Description 67- Weak Blow; Built to 2 1/4"
68- No Return
77- Weak Blow; Built to 6 1/2"
78- No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>125</u>	<u>MLW</u>		<u>60</u>	<u>40</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 125' BHT 91° Gravity — API RW 272 @ 45° F Chlorides 42,000 ppm

(A) Initial Hydrostatic 1541 Test 1050 T-On Location 04:04
 (B) First Initial Flow 23 Jars 250 T-Started 04:10
 (C) First Final Flow 44 Safety Joint 75 T-Open 06:50
 (D) Initial Shut-In 1017 Circ Sub — T-Pulled 10:05
 (E) Second Initial Flow 38 Hourly Standby — T-Out 11:57
 (F) Second Final Flow 75 Mileage 108R7 108 Comments Loaded tools
 (G) Final Shut-In 1033 Sampler — 03/06/2018 @ 11:00
 (H) Final Hydrostatic 1494 Straddle —
 Shale Packer 250
 Extra Packer —
 Extra Recorder —
 Day Standby 1.5d 11h
 Accessibility —
 Sub Total 1733

Initial Open 15
 Initial Shut-In 30
 Final Flow 60
 Final Shut-In 80

Approved By _____ Our Representative Spencer J. Staal Thanks!



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

Well Name: Circle Trust #1 - Carmen Schmitt, Inc.
API: 15-163-24353
Location: E2-SW-SW-SE, Section 25-7S-16W
License Number: 6569
Spud Date: February 27, 2018
Surface Coordinates: 330'FSL & 2239' FEL,
Of Section
Bottom Hole Vertical Wellbore
Coordinates: Results: D & A
Field: Wildcat
Ground Elevation (ft): 1862 Ft. K.B. Elevation (ft): 1870 Ft.
Logged Interval (ft): 2150 Ft. To: 3690 Ft. Total Depth (ft): RTD 3690 Ft. LTD 3692 Ft.
Formation: Arbuckle At Total Depth
Type of Drilling Fluid: Chemical
Region: Rooks County, Kansas
Drilling Completed: March 09, 2018

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 #415
Wichita, Kansas 67202

Remarks

Based on sample observations, drill stem test results, and electric log evaluation, it was the decision of the Operator, to plug and abandon the "Circle Trust #1", on March 08, 2018.

Respectfully submitted,
M. Bradford Rine, geologist

Drilling Information

Rig: Discovery Drilling, Rig #2
Pump: Emsco DB-550 6x15
Drawworks: National T370
Collars: 280' 2-1/4 x 6-1/4 + Weight Pipe
Drillpipe: 4-1/2" 16.6# XH
Toolpusher: Terry Wickham

Mud: Mudco (Gary Schmidtberger)
Gas Detector: None
Drill Stem Tests: Trilobite (Spencer Staab)
Logs: Pioneer (D. Schmidt)
Water: Woodston Municipal Well (Heartland Tank)
Company Representatives:
Office: Carmen Schmitt
Field: None

Daily Drilling Status

Date:	Operations/Depth/Comments
02-27-18	MIRT, RU, Spud @ 0'
02-28-18	Waiting on Cement @ 222'
03-01-18	Drilling @ 1398'
03-02-18	Drilling @ 2345'
03-03-18	Circulating for Samples @ 2825'
03-04-18	Trip Out of Hole for DST 2 @ 2966'
03-05-18	Trip Back in Hole after DST 3 @ 3071'
03-06-18	On Bottom With DST #5 @ 3155'
03-07-18	Drilling @ 3285'
03-08-18	Circulating for Samples @ 3635'
03-09-18	Plugging @ 3690', Job completed at 9:30 AM

	Results: D & A			(Well A) D&A		(Well B) D&A			
	Carmen Schmitt, Inc.			D&D Drilling Co, Inc.		Shields Oil Producers			
	Circle Trust #1			Lala #1		Hardman #1			
	330'FSL & 2239'FEL			660'FSL & 1980'FWL		1320'FSL & 990'FWL			
	Sec. 25-7S-16W			Sec. 36-7S-16W		Sec. 26-7S-16W			
	KB	1870		KB	1878	KB	1801	Well A	Well B
Formations	Sample	E-Log	Datum	E-Log	Datum	Sample	Datum	Comparison(s)	
Anhydrite	1194	1194	676	1231	647	1121	680	29	-4
B/Anhydrite	1228	1227	643	1277	601	NA		42	
Neva	2230	2229	-359	2288	-410	NA		51	
Tarkio Ls	2630	2631	-761	2710	-832	NA		71	
Topeka	2786	2787	-917	2868	-990	2726	-925	73	8
Heebner Sh.	3006	3005	-1135	3090	-1212	2944	-1143	77	8
Toronto	3029	3028	-1158	3122	-1244	2968	-1167	86	9
Lansing	3052	3051	-1181	3140	-1262	2988	-1187	81	6
Muncie Creek Sh.	3178	3178	-1308	3270	-1392	3115	-1314	84	6
Stark Sh.	3253	3254	-1384	3356	-1478	3187	-1386	94	2
B/Kansas City	3311	3311	-1441	3404	-1526	3245	-1444	85	3
Marmaton	3348	3346	-1476	3440	-1562	3285	-1484	86	8
B/Penn Lime	3425	3424	-1554	3533	-1655	3376	-1575	101	21
Viola (1rst Dol)	Abs	Abs		3619	-1741	NDE		1741	
Simpson	Abs	Abs		NDE		NDE			
Arbuckle	3470	3469	-1599	NDE		NDE			
Total Depth	3690	3692	-1820	3642	-1764	3415	-1614	-56	-206

Casing Record, Bit Record, Deviation Surveys

CASING:

Conductor: None

Surface: Ran 210 ft of 8-5/8" 23#, set @ 220'. (Quality) Cement with 175 sx Common, 2% gel, 3% CC. Cement did circulate. Plug down at 2:45 am, February 28, 2018.

Production: Plug and abandon as follows: (Quality) 1rst plug 50sx @ 3449 ft, 2nd plug 50sx @ 1210 ft, 3rd plug @ 940 ft, 4th plug 50sx @ 270 ft, 5th plug 10sx @ 40 ft, 30sx in RH, 15sx in MH. Total 305sx of 60/40 POZ with 4% gel, 1/4# Floseal. Job completed @ 9:30 AM, March 09, 2018.

BITS:

No.	Size	Make	Model	Depth In	Depth Out	Hours
1	12-1/4	JZ	RR	0	222	6.5
2	7-7/8	HTC	GX20C	222	3690	94.50

DEVIATION SURVEYS:

Deviation:	Depth:	Deviation:	Depth:
0.25*	222'	1.25*	3690'
0.25*	2825'		

DST #1: 2809-2825 (Topeka B)

Times: 15-30-30-30

**Initial Open: No Blow, flush tool,
no help**

**Final Open: Weak intermittent blow,
max build 1/2" i.b.**

Rec: 12' Total Fluid

10' SOCM: 5%o 95%m

02' MCO: 55%o 45%m

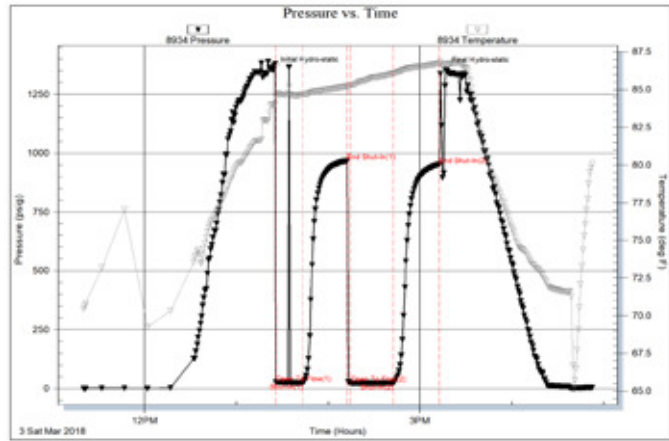
IHP: 1353 FHP: 1351

IFP: 25-24 FFP: 23-23

ISIP: 967 FSIP: 951

BHT: 86°F

***(slid tool several feet,
pulled tight coming off bottom)**



DST #2 {straddle}: 2877-2928 (Topeka) TD 2966'

Times: 15-30-45-45

Initial Open: Wk, Blow built to 2-3/4" i.b.

Final Open: Wk, Blow built to 1/2" i.b.

Rec: 10' oil specked mud

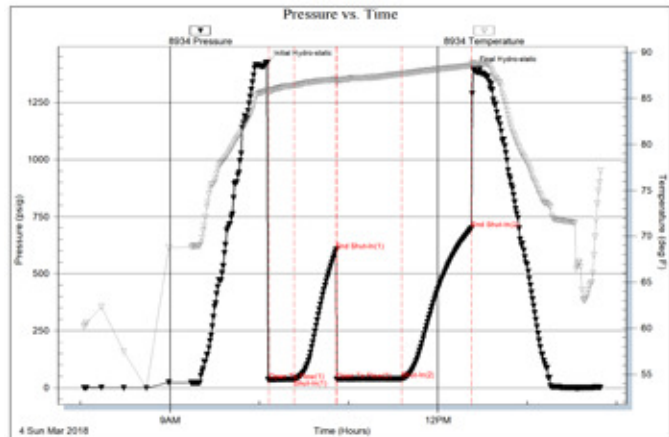
IHP: 1421 FHP: 1394

IFP: 33-37 FFP: 36-39

ISIP: 604 FSIP: 698

BHT: 88°F

***(Straddle packer held)**



DST #3: 3039-3071 (Lans A)

Times: 15-30-30-30

Initial Open: Wk, blow built to 1/4" i.b.

Final Open: Weak surface blow

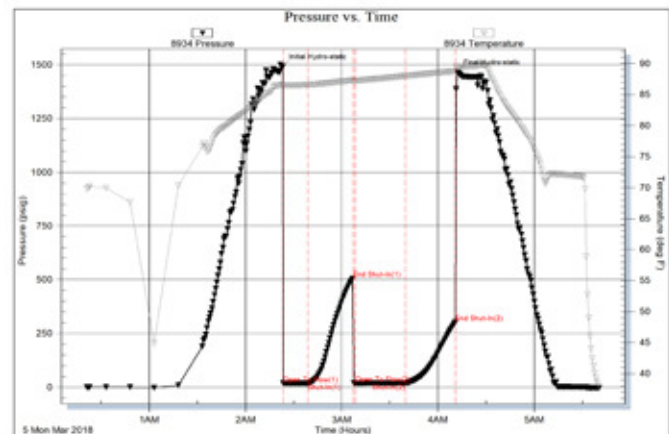
Rec: 2' mud

IHP: 1490 FHP: 1464

IFP: 18-19 FFP: 18-19

ISIP: 506 FSIP: 303

BHT: 88°F



DST #4: 3066-3106 (Lans B,C)

Times: 15-30-10-out

Initial Open: Wk Blow, built to 1/2" i.b.

Final Open: No Blow

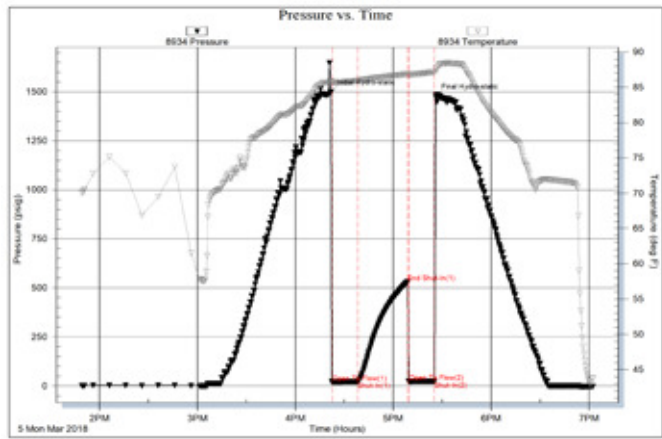
Rec: 10' mud

IHP: 1498 FHP: 1574

IFP: 20-22 FFP: 23-23

ISIP: 530 N/A

BHT: 87°F



DST #5: 3117-3155 (LSG E,F)

Times: 15-30-60-90

Initial Open: Weak Blow, built to 2-1/4" i.b.

Final Open: Mod. Blow, built to 6-1/2" i.b.

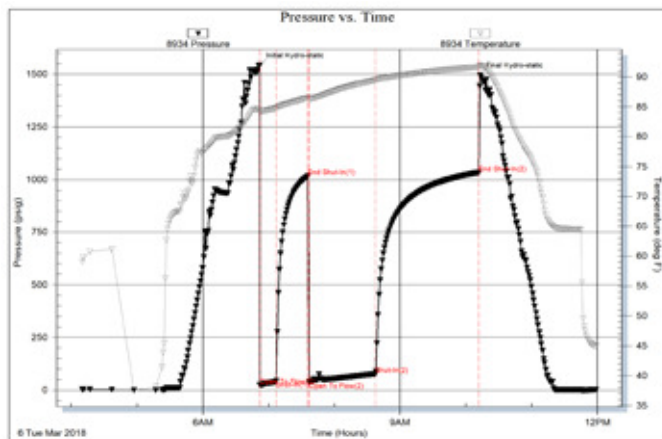
Rec: 125' MCW: 60%w 40%m

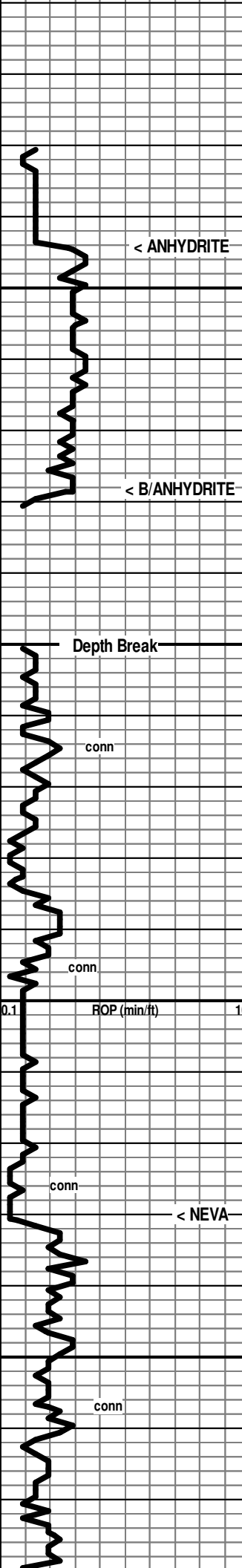
IHP: 1541 FHP: 1494

IFP: 23-44 FFP: 38-75

ISIP: 1017 FSIP: 1033

BHT: 91°F





1200

xxxxxxx

2200

2250



← 1194 (+668)

Anhydrite Interval, based on drill time only!

← 1228 (+634)

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

Sh red-gy-grn

No sand observed in samples!

← 2230 (-360)

Ls wh-cr-gy, fn xln, mostly dns to pr xln por, some fr xln por, foss in pt

(samples have high shale %)

Ls cr-tan-brn-gy, fn xln, dns to pr xln por, foss to abund foss

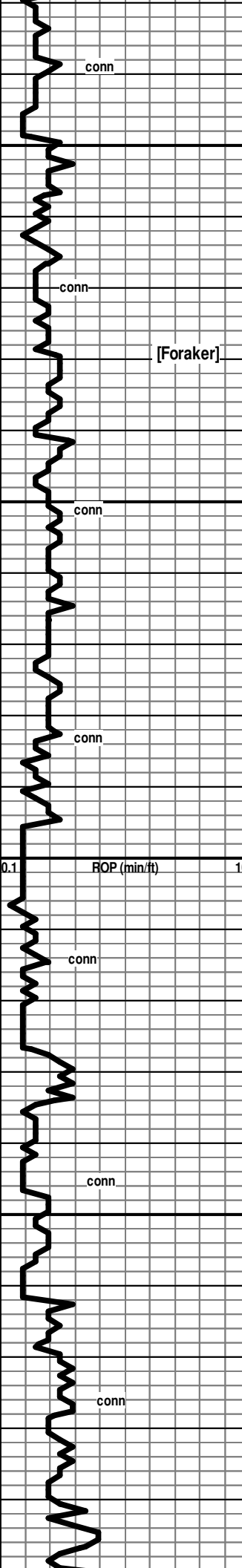
Sh gy

Ls cr-tan-brn-gy, fn xln, dns to pr xln por, foss to abund foss, chert: fresh tan-brn, spiculitic, subopaq

Sh pl gy-gy-grmish gy, silty in pt, calc cem in pt

(good samples)

* Displace and Mudup @ 2245 ft!



2300

2350

2400

2450

2500

conn

conn

[Foraker]

conn

conn

conn

conn

ROP (min/ft)

10

0.1

Sh pl gy-gy-grnsh gy, silty in pt, calc cem in pt to silty chalky Ls

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

Sh gy, silty in pt

Sh gy-pl grnsh, silty in pt

Ls wh-cr-tan-gy, fn xln, mushy & chalky in pt, dns to pr xln por in pt, foss (some weath'd to gy); mixed with pl gy-gy shales soft to silty

Ls cr-tan,fn xln, mostly pr xln por, some fr xln por, some dns, abund foss (some with weath'd pores), scatt pp pores

Silty Ls to Limey Siltstone cr-gy, fn xln, vfn grn, chalky to dns cement

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

Ls cr-gy, fn xln, dns, abund foss (some weath'd to gy); mixed with shales gy-dk gy

Sh-Silty Sh-Shaley Siltstone pl gy-gy, mushy to soft to subfirm

Shale & Siltstone reds to gy, earthy to silty, mushy to soft

Ls gy, fn xln, subsilty text in pt, dns, foss in pt

Shaley & calc siltstone wh-pl gy, mushy to soft

Silty Ls-Limey Siltstone-Shaley Siltstone, wh-grnsh-gy

Sh gy, silty to subsilty in pt, calc in pt, soft to firm

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

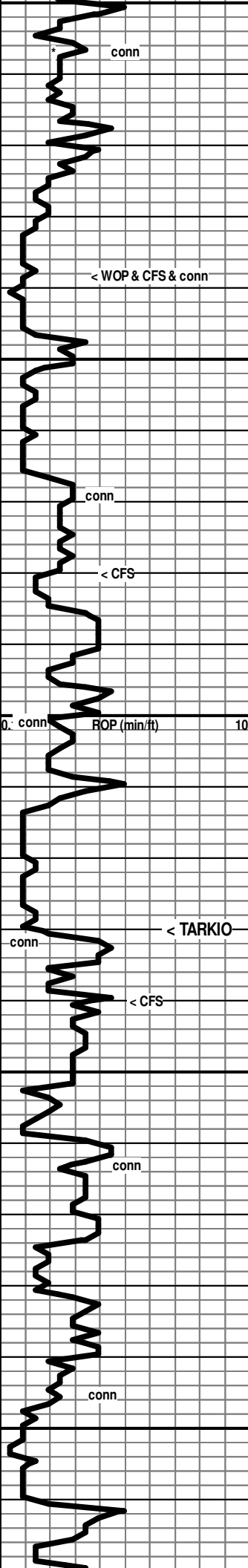
Ls cr-tan-gy, vfn-fn xln, dns to pr xln por, foss, silty in pt; mixed with Shale and Silty Sh and shaley siltstone, gy

Ls cr-tan-gy, vfn-fn xln, dns to pr xln por with scatt pp pores, foss, silty in pt; mixed with Shale and Silty Sh and shaley siltstone, gy

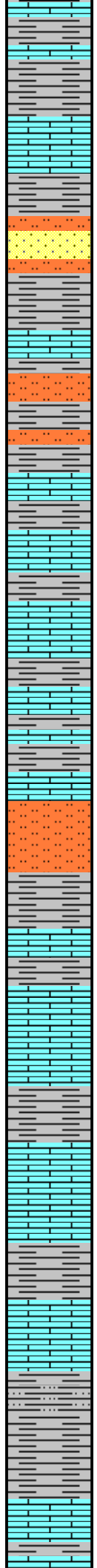
7:00 AM, March 02, 2018

Mud Check, Drlg @ 2378 ft.:

Vis	Wt	WL	LCM	PV	YP
60	8.6	6.0	2	17	25
Chl	Hd	pH	Solids		
2100	Nil	11.5	2.1		



2500
2550
2600
2650
2700



pt, mixed with calc and silty sh and shaley siltstone, gy

Sh gy

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

Sh-silty sh-calc sh-shaley siltstone wh-pl gy-gy, ushy to sost, trace of loose pyr pcs

Siltstone-Sd, vfn grain to fn grn, gy, gd sort, gd fri, subrd, cem in pt, pr vis intergrnlr por, some mic & glauc stn

Sh pl gy-pl grnsh to pinkish-reddish, mushy-soft, silty in pt (washes pl pinkish)

Ls tan-brn, vfn xln, dns, silty text in pt, sli foss

Sh gy-gm-reddish; Siltstone wh-gy, vfn grn, gd sort, subrd, gd fri; Silty shales to shaley siltstone

Sh gy-whitish,mushy

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

Ls wh-cr-gy, fn xln, dns & firm in pt, soft and chalky in pt, foss in pt; mixed with shale gy, mushy-soft-firm, pyritic in pt (washes gy)

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

Sh mostly shades of gy, mushy to soft, calc in pt, silty in pt

Siltstone whitish to gy to some grnsh, vfn grn, gd sort, subrd, gd-exc fri, mic in pt, some grnsh glauc stn

Shale gy, mushy to soft, (washes gy)

<----- 2630 (-760)

Ls cr-tan, fn xln, dns with scatt patches of pr xln por, foss with patches of abund foss

Sh gy

Ls tan-gy, vfn xln, dns

Ls wh-cr-gy, vfn-fn xln, mostly dns & firm, some soft & chalky, foss

Sh gy-grnsh, argill to subsilty text

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

Sh gy-gm, argill to subsilty text

Ls wh-cr-tan, fn xln, dns,foss

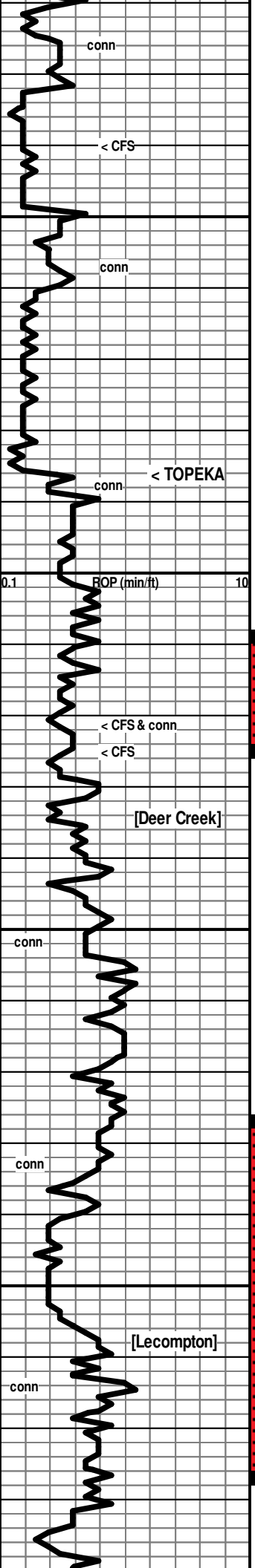
Sh gy-grnsh, subsilty to silty, soft

Sh mostly gy, argil

Ls cr-tan-gy, fn xln, dns, foss (some weath'd to gy)

* Mud Pump not at full operational status, drlg while waiting on parts! (PP varying between 200-600#)

Work on Pump @ 2538 ft, before CFS!

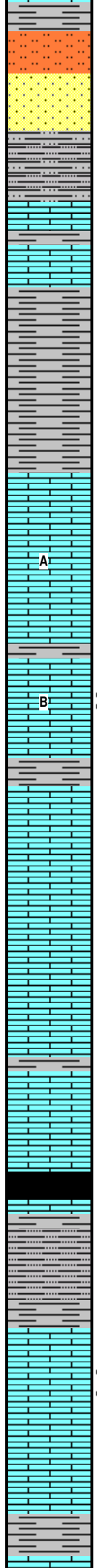


2750

2800

2850

2900



Siltstone gy-dk gy, shaley in pt, vfn grn, subrd, mostly pr fri, pr vis intergrnlr por

Siltst/Sd vfn grn, wh-gy, subrd, gd sort, fr-gd fri, pr-fr intergrnlr por in pt, glauc, embedded shale flecks, some pyrite

Shaley Siltstone to silty Shale gy-dk gy

Ls cr-gy-dk gy, shaley in pt, fn xln, dns, silty in pt, foss in pt

Sh gy-red, mushy to soft, silty in pt, earthy text in pt

Sh pl gy-gy-grnsh gy, subsilty in pt

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

← 2786 (-916)

Ls wh-cr-tan-gy, fn xln, dns, foss to abund foss (some weath'd to gy)

A

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

Sh gy

B

Ls cr-tan-gy, fn xln, subchalky in pt, dns in pt, pr vis xln por in pt, scatt pp pores, foss to abund foss

Show Descr. →

Sh gy, pyritic in pt

Ls cr-gy, fn xln, dns, foss

Ls wh-cr-tan, fn xln, subchalky in pt, dns & hard in pt, foss

conn

Ls cr-gy, fn xln, subchalky in pt, dns & firm in pt, foss (some weath'd to gy)

Ls cr, fn xln, chalky to subchalky, foss

Sh black, carb

Shaley to calc siltstone wh-gy

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

conn

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

[2930' spl: Fnt Odor, scatt patches of dull-mod fluor with patches of spotty tan wettish stn, with scatt Tr shows of It tan microdrops of FO in a few pcs]

Calc Sh, gy, foss in pt

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

DST #1: 2809-2825 (Topeka B)
 Times: 15-30-30-30
 Initial Open: No Blow, flush tool, no help
 Final Open: Weak intermittent blow, max build 1 i.b.
 Rec: 12' Total Fluid
 10' SOCM: 5%o 95%
 02' MCO: 55%o 45%
 IHP: 1353 FHP: 1351
 IFP: 25-24 FFP: 23-23
 ISIP: 967 FSIP: 951
 BHT: 86°F
 *(slid tool several feet, pulled tight coming off bottom)

[Moderately Stg Odor, mod-brt spotty-patchy-eve fluor, mod am't of pcs with v sli-sli shows of tan FO & NVL oil, a few pcs with mod-gd shows of NVL oil & FO, v sli gassy in pt, patchy-even tan-brn-d brn stn]

7:00 AM, March 03, 2018

Mud Check, CFS @ 2825 ft.:

Vis	Wt	WL	LCM	PV	YP
57	8.9	6.0	2	16	26
Chl	Hd	pH	Solids		
2200	tr	11.0	4.3		

DST #2 {straddle}: 2877-2928 (Topeka) TD 2966'
 Times: 15-30-45-45
 Initial Open: Wk, Blow built to 2-3/4" i.b.
 Final Open: Wk, Blow built to 1/2" i.b.
 Rec: 10' oil specked mud
 IHP: 1421 FHP: 1394
 IFP: 33-37 FFP: 36-39
 ISIP: 604 FSIP: 698
 BHT: 88°F
 *(Straddle packer held)

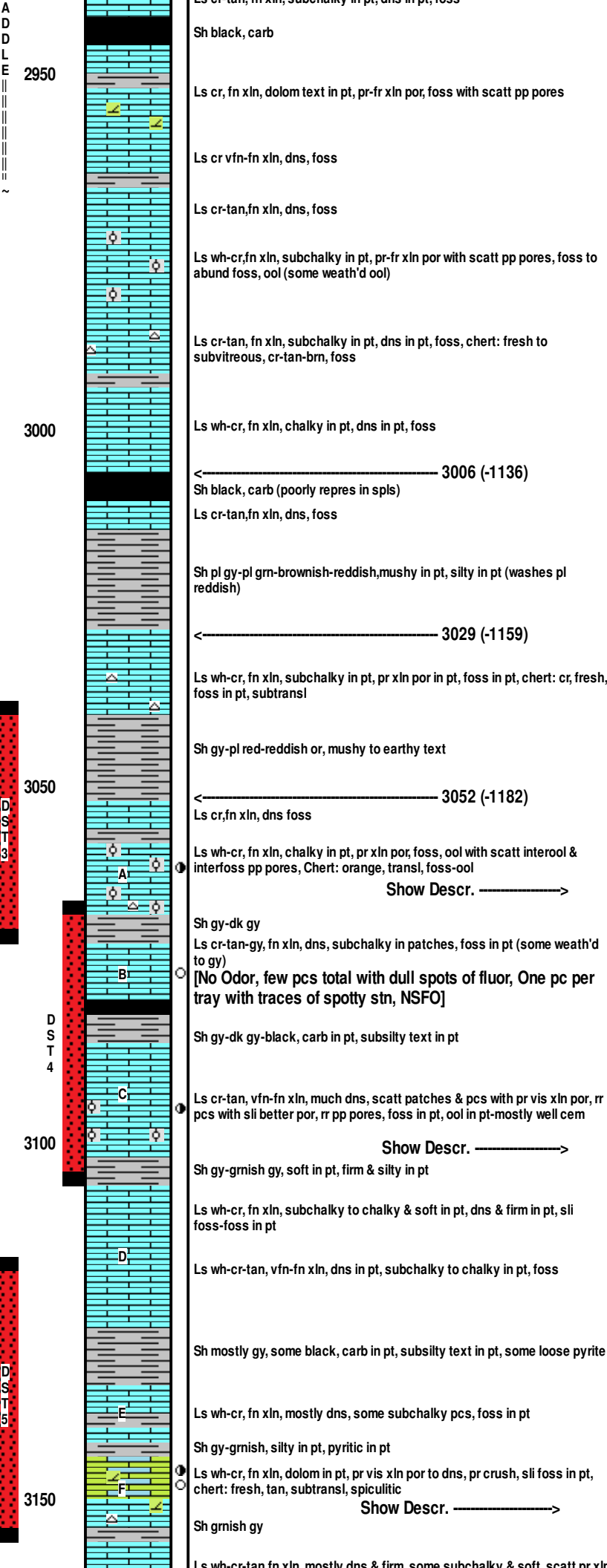
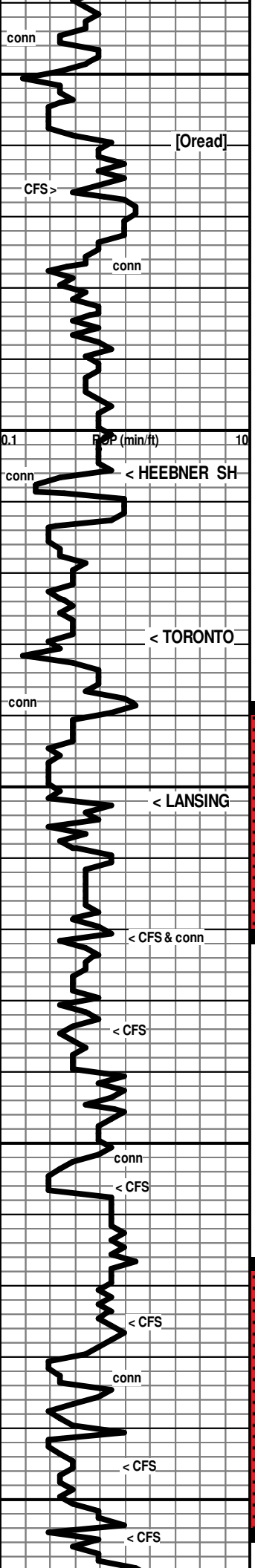
DST #1

DST #2

DST #3

[Deer Creek]

[Lecompton]



Mud Check, Prepare for DST2 @ 2966 ft.:
 Vis Wt WL LCM PV YP
 57 8.9 6.4 2 15 26
 Chl Hd pH Solids
 2200 nil 11.0 4.3

7:00 AM, March 04, 2018

DST #3: 3039-3071 (Lans A)
 Times: 15-30-30-30
 Initial Open: Wk, blow built to 1/4" i.b.
 Final Open: Weak surface blow
 Rec: 2' mud
 IHP: 1490 FHP: 1464
 IFP: 18-19 FFP: 18-19
 ISIP: 506 FSIP: 303
 BHT: 88°F

[No Odor, abund dull-mod fluor, abund tan-brn str pores and pr xln porosity, scatt trace to sli show tan-brn FO on crush, v sli gassy in Rr pt, mostly patchy with some even tan-lt brn stn]

7:00 AM, March 05, 2018

Mud Check, CTCH after DST3 @ 3071 ft.:
 Vis Wt WL LCM PV YP
 55 9.0 6.4 2 12 21
 Chl Hd pH Solids
 2400 tr 10.5 4.9

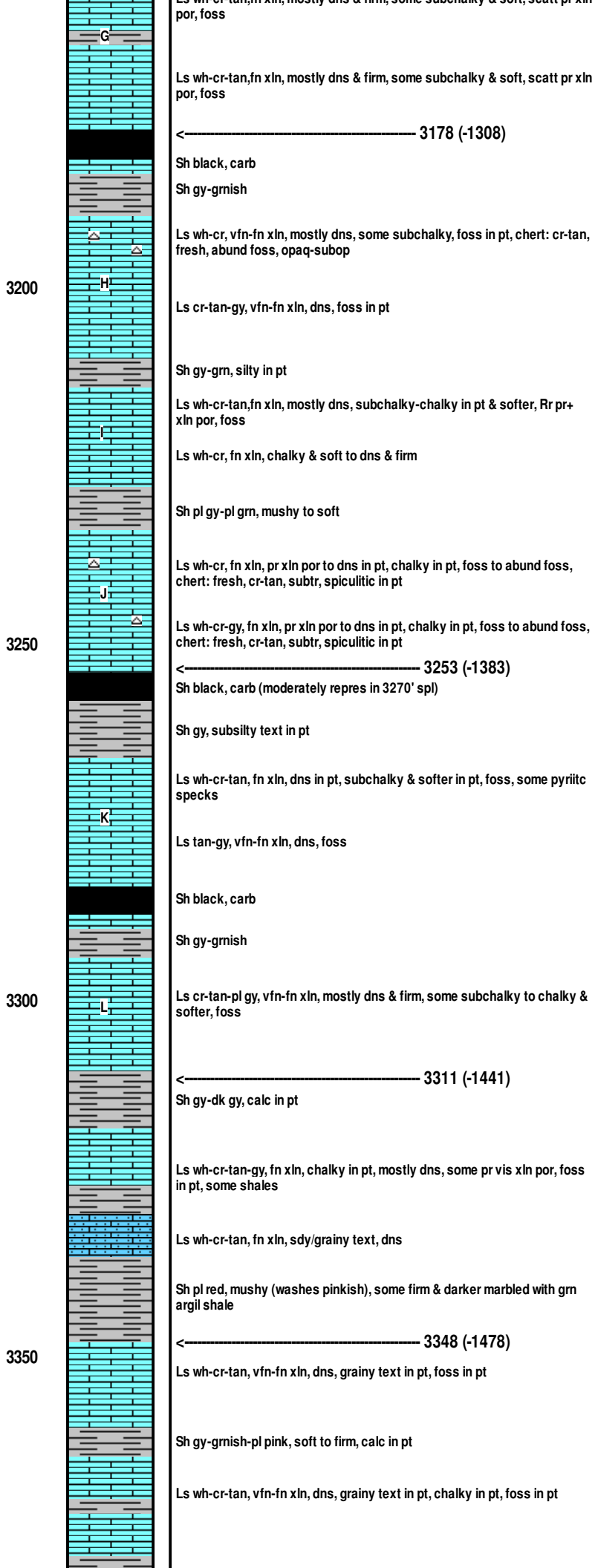
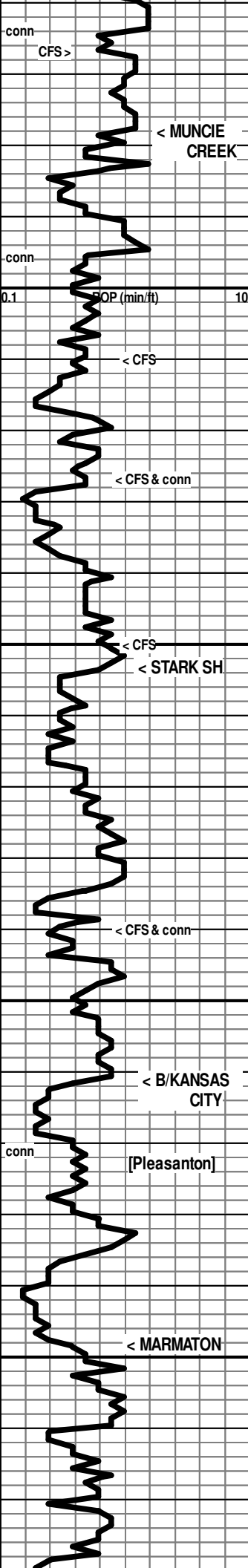
[No Odor, Fair am't of mod fluor-patchy to some e Fair am't of tan-lt brn stn mostly in patches, rr ev tan stn-with widely scatt traces to v sli shows of to lt brn FO on crush, vsli gassy in pt]

DST #4: 3066-3106 (Lans B,C)
 Times: 15-30-10-out
 Initial Open: Wk Blow, built to 1/2" i.b.
 Final Open: No Blow
 Rec: 10' mud
 IHP: 1498 FHP: 1574
 IFP: 20-22 FFP: 23-23
 ISIP: 530 N/A
 BHT: 87°F

[No Odor, No fluor, Few pcs per tray with a patch brn spotty stn, Rr Trace shows brn NVL oil on cr V Rr trace shows of lt brn micro-drops FO]

7:00 AM, March 06, 2018

* High Winds. Decision made by contractor to Sh



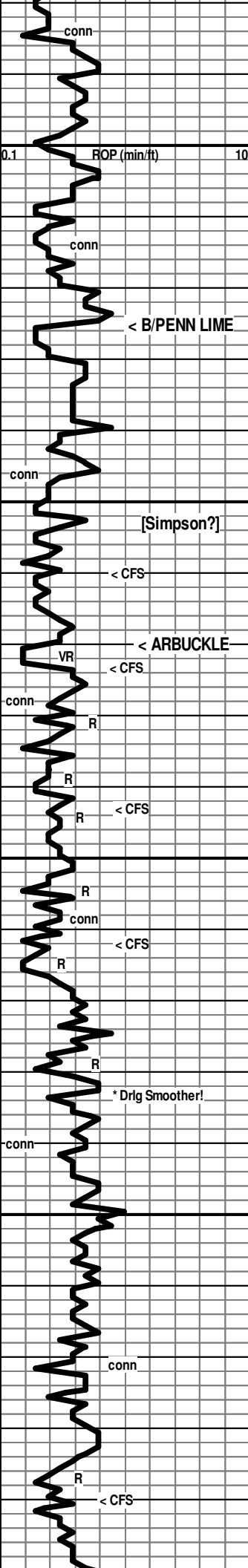
high winds, decision made by contractor to shut down after DST5 for the day. 5 pm, contractor made decision to go back in hole with bit, and proceed!

DST #5: 3117-3155 (LSG E,F)
 Times: 15-30-60-90
 Initial Open: Weak Blow, built to 2-1/4" i.b.
 Final Open: Mod. Blow, built to 6-1/2" i.b.
 Rec: 125' MCW: 60%w 40%
 IHP: 1541 FHP: 1494
 IFP: 23-44 FFP: 38-75
 ISIP: 1017 FSIP: 1033
 BHT: 91°F

Mud Check, OB/DST5 @ 3155 ft.:
 Vis Wt WL LCM PV YP
 51 9.3 6.8 1 16 25
 Chl Hd pH Solids
 3000 20 10.5 7.0

7:00 AM, March 07, 2018

Mud Check, CFS @ 3290 ft.:
 Vis Wt WL LCM PV YP
 50 9.3 7.2 1 15 21
 Chl Hd pH Solids
 3000 20 10.5 7.0



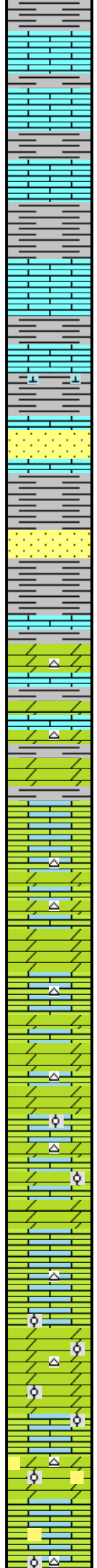
3400

3450

3500

3550

3600



Sh red-gy-grn, silty in pt

Ls wh-cr-tan-gy, vfn-fn xln, dns to subchalky, grainy text in pt

Sh pl gy-pl red-pl grn, abund mushy to soft, some silty

Ls wh-cr, fn xln, dns, scatt pinkish-tanish mineral stn

Ls wh-cr-tan, v-fn xln, dns, grainy text in pt

← 3425 (-1555)

Sh red-gy-grn, some mixed and marbled together, calc in pt, Limestone frags cem with shale

3450' spl: 80% Ls wh-cr, fn xln, chalky in pt, dns in pt foss in pt; 20% Shales as above

3460' & circ spl: 65% Shales mostly pinkish-red-grn-yell, mushy to earthy, silty-sdy in pt, some gy & grn soft to more firm; 35% Ls wh-cr, fn xln, dns, foss in pt, sdy in pt, shaley with red shale in pt; Sd clusters: glassy-eh, some cemented-some shaley, fn grn, fr-gd sort (175u-400u), some loose grns up to 1000u, subrd-subanglr, fr-gd fri with fr-gd intergrnlr por in pt, Rr pl grn glauc stn (washes red)

3473' & circ spl: Sh gy-grn-red-yell-lav, mushy-soft-subwaxy to subearthy, sdy in pt; some loose chert, fresh, tan-yellgrn; Sd clusters clean to shaley with var color shales; Ls wh-cr, dns, some subsucr text

← 3470 (-1600)

Dol, wh-pinkish, md-crs xln, sucrosic-rhombic, gd interxln por, abund vugs, some weathering and rounding of xls, gd-fr-pr crush, Cherty: fresh, wh-cr transl, some embedded pyritic patches abund dolom mineral flour

3493' & circ spl: 65% Ls wh-cr, fnxln, dns, & Dol as above; 35% shales red-gy-grn-epidote grn-yell-purp, subwaxy-waxy-silty-sdy in pt

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

3512' & circ: 90% Dol & Dol Ls, cr-tan-salmon, fn-md-crs xln, sucr to rhombic, pr-gd xln por, foss in pt; 10% shales as above

Dol cr-tan, fn-md xln, sucr to subrhombic, pr-fr xln por, scatt vugs, scatt foss, chert: fresh, wh-cr-tan, transl-opaq, some dns dol ls

Dol wh-cr, some tan, fn-md xln, dns in pt, pr-fr xln por in pt, scatt vugs, subsucr to sucr, rhombic in pt, some dol ls/limey dol, chert: fresh, wh-cr

Dol wh-cr-tan, fn-md xln, dns in pt, pr-fr xln por in pt, scatt vugs, subsucr to sucr, rhombic in pt, some dol ls/limey dol, chert: fresh, wh-cr, some ool & oom chert, transl (samples 99%+ dol and dol ls, tr of shale)

Dol ls to limey dol, cr-tan, fn xln, mostly pr xln por, some fr xln por, foss in pt, sli cherty

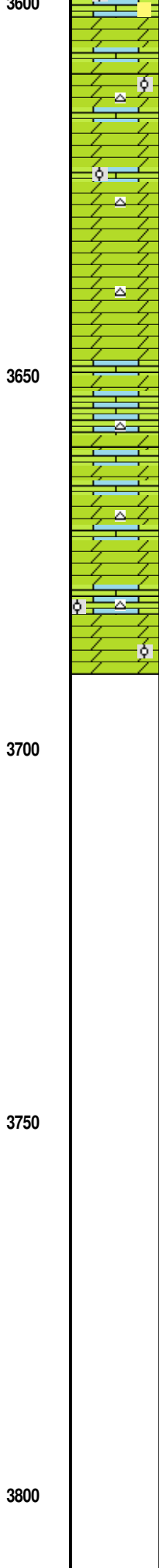
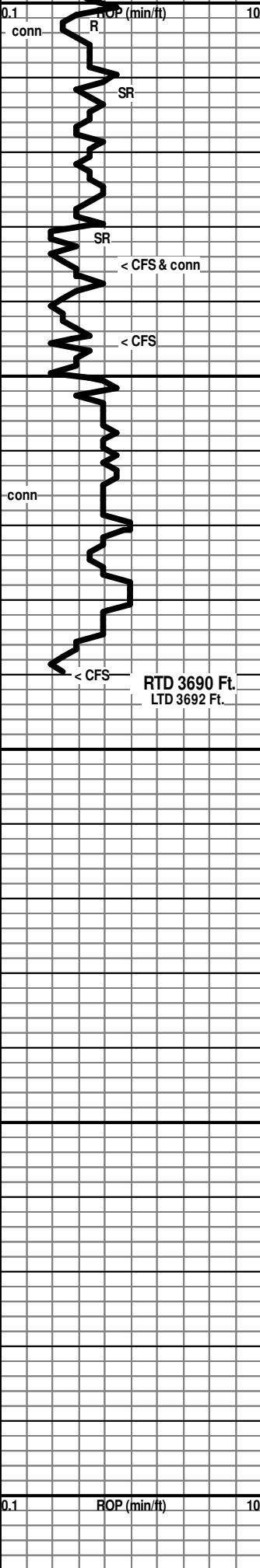
Dol cr-tan, fn xln, pr-fr xln por, subsucr-sucr-rhombic, scatt pp pores & vugs, much ool with some oom, cherty

Dol cr-tan-gy-pl grn, fn-md xln, fr-gd xln por in pt, ool & oom in pt, sdy to v sdy in pt, Ls in pt, dns, cherty: ool in pt, Rr pcs of soft pl grn silty shale

Dol & limey dol, cr-tan-fleshy, some pl grnsh glauc stn,, fn-md xln, pr-fr xln por in pt, dns in pt, scatt sm vugs, sdy in pt, some ool, Rr pcs of am

Lost Returns @ 3473' appr 40 bbbls!

* No Shows observed in the Arbuckle!



siltstone or silty shale

Dol & limey dol wh-cr-pl gy, mostly fnxln, some sli crsr, pr-fr xln por in pt, dns in pt, ool in pt, sli cherty *(no shale in spls)

Dol & limey dol wh-cr-pl gy, mostly fnxln, some sli crsr, pr-fr xln por in pt, dns in pt, ool in pt, sli cherty *(no shale in spls)

Dol wh-cr-tan, fn-md xln, pr-gd xln por, gd vuggy por in pt, suc-rhombic, scatt grn glauc stn, few pcs of dk grnish gy shale

Dol wh-cr-pl gy, fn-md xln, pr-gd xln por, gd vuggy por in pt, suc-rhombic, scatt grn glauc stn, few pcs of various color shale, chert: fresh, transl, foss

Dol & Dol Ls, wh-cr-tan-pl gy, vfn-fn xln, much dns, some fr xln por with scatt vugs & pp pores, Chert: fresh, wh-pl gy, transl

Dol & Dol Ls wh-cr, fn-md xln, mostly dol, some dol ls, pr to fr xln por, some gd xln por, some dns, scatt pp pores & vugs, ool in pt-some weath'd

Dol wh-cr-pl gy,fn-md xln, subsucr-sucr-rhombic, pr-gd xln por, scatt sm vugs & pp pores, ool in pt-weath'd in pt, chert: fresh, glassy-tan, transl,

7:00 AM, March 08, 2018

Mud Check, CFS @ 3635 ft.:

Vis	Wt	WL	LCM	PV	YP
57	9.3	7.6	3	12	26
Chl	Hd	pH	Solids		
4400	40	10.0	6.9		

Pipe Strap @ 3690 ft:
.24 ft long!

RTD 3690 Ft. at 12:30 PM,
March 08, 2018