

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 \_\_\_\_\_ 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](mailto: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	HOLMAN 1
Doc ID	1383623

All Electric Logs Run

Sonic
Micro
Dual Induction
Dual Comp Porosity

Form	ACO1 - Well Completion
Operator	Carmen Schmitt, Inc.
Well Name	HOLMAN 1
Doc ID	1383623

Tops

Name	Top	Datum
Anhydrite	1563	866
Heebner	3971	-1542
Toronto	3988	-1559
Lansing	4039	-1610
Stark Sh.	4355	-1926
B/ KC	4466	-2037
Marmaton	4486	-2057
Pawnee	4581	-2152
Ft. Scott	4610	-2181
Cherokee	4634	-2205
Miss	4721	-2292
Miss Dolo	4734	-2305





## DRILL STEM TEST REPORT

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

PO Box 47  
Great Bend, KS 67530

ATTN: Brad Rine

### **Holman #1**

#### **20-24S-23W Hodgeman,KS**

Start Date: 2018.01.30 @ 02:03:54

End Date: 2018.01.30 @ 10:57:14

Job Ticket #: 63347                      DST #: 1

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

Printed: 2018.02.01 @ 11:33:10



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

**20-24S-23W Hodgeman, KS**

**Holman #1**

Job Ticket: 63347      **DST#: 1**  
 Test Start: 2018.01.30 @ 02:03:54

## GENERAL INFORMATION:

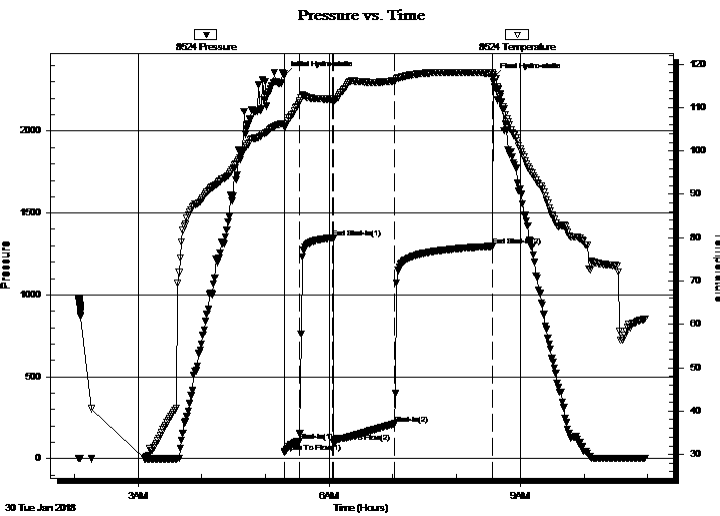
Formation: **Cherokee - Mississipp**  
 Deviated: No Whipstock:      ft (KB)  
 Time Tool Opened: 05:18:15  
 Time Test Ended: 10:57:14  
 Interval: **4647.00 ft (KB) To 4737.00 ft (KB) (TVD)**  
 Total Depth: 4737.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Brannan Lonsdale  
 Unit No: 73  
 Reference Elevations: 2429.00 ft (KB)  
 2424.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8524**

**Outside**

Press@RunDepth: 213.08 psig @ 4671.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2018.01.30      End Date: 2018.01.30      Last Calib.: 2018.01.30  
 Start Time: 02:03:55      End Time: 10:57:14      Time On Btm: 2018.01.30 @ 05:18:00  
 Time Off Btm: 2018.01.30 @ 08:34:30

**TEST COMMENT:** 15- IF- BOB 10 mins  
 30- IS- Surface blow died in 5 mins  
 45- FF- BOB 8 mins  
 60- FSI- Slow ly built to 4" in 44 mins. Slow ly died back to 3"



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2338.76	106.29	Initial Hydro-static
1	39.33	105.58	Open To Flow (1)
14	106.06	111.06	Shut-In(1)
45	1348.93	111.95	End Shut-In(1)
46	102.40	111.63	Open To Flow (2)
104	213.08	116.18	Shut-In(2)
196	1296.85	117.95	End Shut-In(2)
197	2326.96	117.67	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
487.00	GMCO, 30%G 10%M 60%O	5.80
0.00	581' GIP	0.00

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

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

**20-24S-23W Hodgeman,KS**  
**Holman #1**  
Job Ticket: 63347      **DST#: 1**  
Test Start: 2018.01.30 @ 02:03:54

**Tool Information**

Drill Pipe:	Length: 4521.00 ft	Diameter: 3.82 inches	Volume: 64.09 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial	63000.00 lb
Depth to Top Packer:	4647.00 ft			Final	67000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	90.00 ft				
Tool Length:	119.00 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			4619.00	
Shut In Tool	5.00			4624.00	
Hydraulic tool	5.00			4629.00	
Jars	5.00			4634.00	
Safety Joint	3.00			4637.00	
Change Over Sub	1.00			4638.00	
Packer	5.00			4643.00	29.00      Bottom Of Top Packer
Packer	4.00			4647.00	
Stubb	1.00			4648.00	
Perforations	23.00			4671.00	
Recorder	0.00	6771	Inside	4671.00	
Recorder	0.00	8524	Outside	4671.00	
Change Over Sub	1.00			4672.00	
Drill Pipe	61.00			4733.00	
Change Over Sub	1.00			4734.00	
Bullnose	3.00			4737.00	90.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>119.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Carmen Schmitt, Inc.

**20-24S-23W Hodgeman,KS**

PO Box 47  
Great Bend, KS 67530

**Holman #1**

Job Ticket: 63347

**DST#: 1**

ATTN: Brad Rine

Test Start: 2018.01.30 @ 02:03:54

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

32 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4200.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
487.00	GMCO, 30%G 10%M 60%O	5.802
0.00	581' GIP	0.000

Total Length: 487.00 ft

Total Volume: 5.802 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

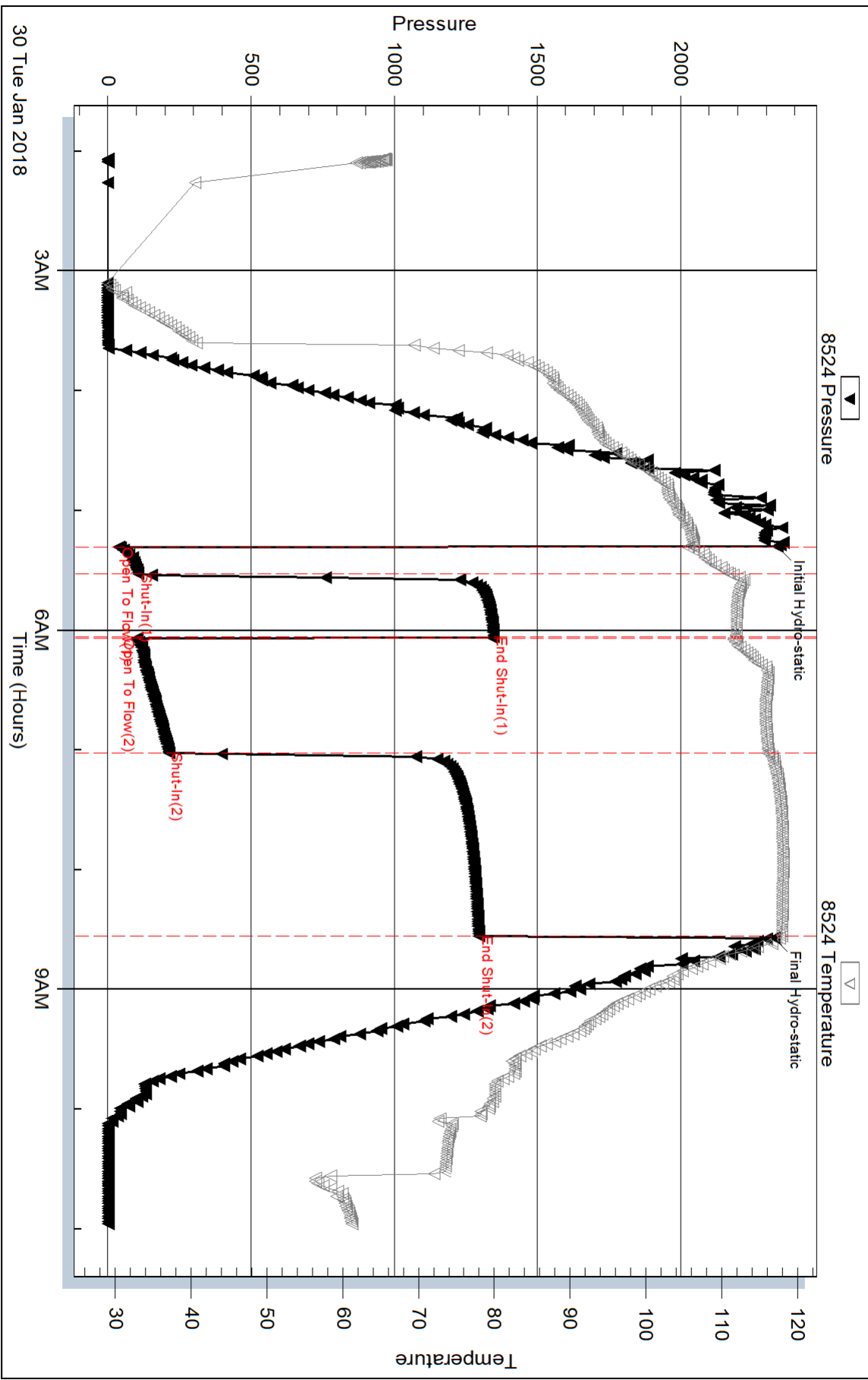
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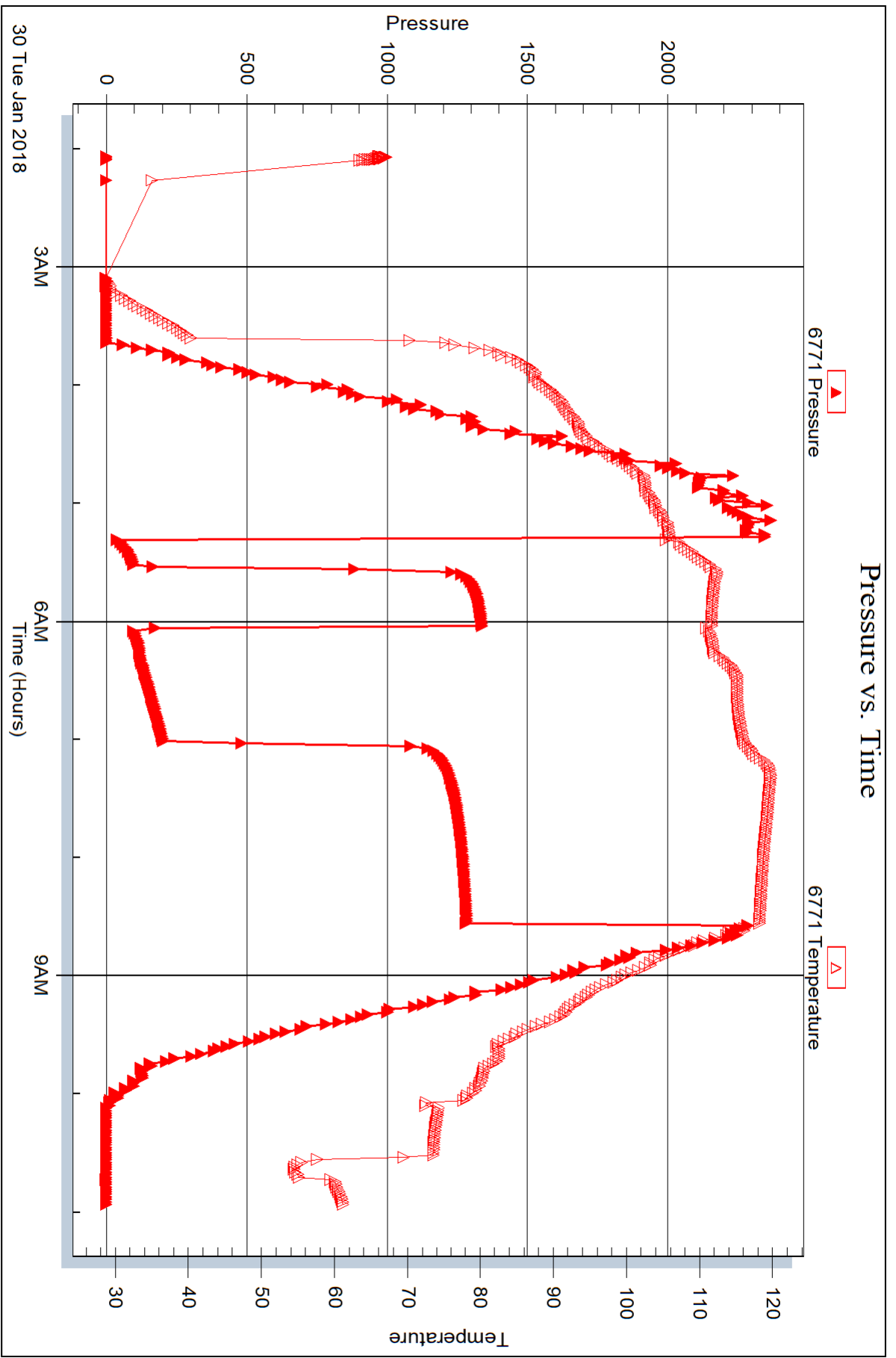
Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time







## DRILL STEM TEST REPORT

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

PO Box 47  
Great Bend, KS 67530

ATTN: Brad Rine

### **Holman #1**

#### **20-24S-23W Hodgeman,KS**

Start Date: 2018.01.30 @ 17:27:11

End Date: 2018.01.31 @ 00:19:17

Job Ticket #: 63348                      DST #: 2

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

Printed: 2018.02.01 @ 11:32:35



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

**20-24S-23W Hodgeman, KS**

**Holman #1**

Job Ticket: 63348      **DST#: 2**  
 Test Start: 2018.01.30 @ 17:27:11

## GENERAL INFORMATION:

Formation: **Mississippi**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 20:04:32  
 Time Test Ended: 00:19:17  
 Interval: **4737.00 ft (KB) To 4741.00 ft (KB) (TVD)**  
 Total Depth: 4741.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brannan Lonsdale  
 Unit No: 73  
 Reference Elevations: 2429.00 ft (KB)  
 2424.00 ft (CF)  
 KB to GR/CF: 5.00 ft

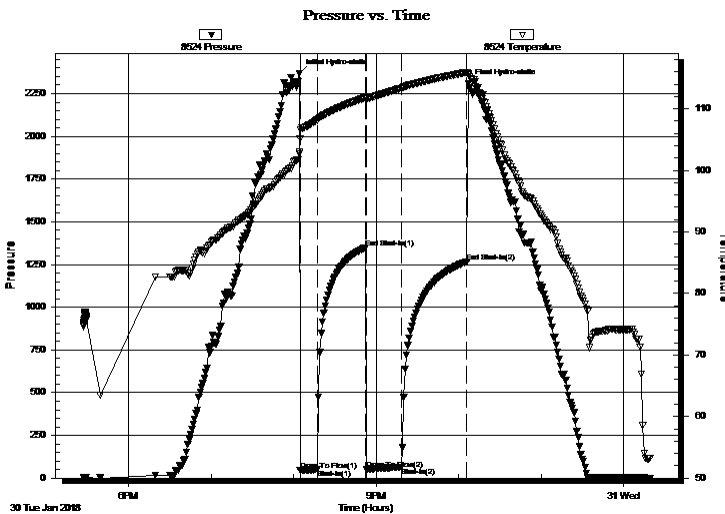
**Serial #: 8524**

**Outside**

Press@RunDepth: 63.25 psig @ 4738.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2018.01.30      End Date: 2018.01.31      Last Calib.: 2018.01.31  
 Start Time: 17:27:12      End Time: 00:19:17      Time On Btm: 2018.01.30 @ 20:04:17  
 Time Off Btm: 2018.01.30 @ 22:07:17

**TEST COMMENT:** 15- IF- Slow ly built to 1"  
 30- IS- No blow  
 30- FF- Slow ly built to 1"  
 45- FSI- No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2368.72	102.96	Initial Hydro-static
1	44.79	105.19	Open To Flow (1)
13	50.93	108.15	Shut-In(1)
48	1346.85	111.81	End Shut-In(1)
49	53.13	111.59	Open To Flow (2)
74	63.25	113.30	Shut-In(2)
122	1267.19	115.91	End Shut-In(2)
123	2310.29	115.47	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	M	0.44

## 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  
ATTN: Brad Rine

**20-24S-23W Hodgeman,KS**  
**Holman #1**  
Job Ticket: 63348      **DST#: 2**  
Test Start: 2018.01.30 @ 17:27:11

**Tool Information**

Drill Pipe:	Length: 4612.00 ft	Diameter: 3.82 inches	Volume: 65.38 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4737.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	4.00 ft			
Tool Length:	33.00 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			4709.00	
Shut In Tool	5.00			4714.00	
Hydraulic tool	5.00			4719.00	
Jars	5.00			4724.00	
Safety Joint	3.00			4727.00	
Change Over Sub	1.00			4728.00	
Packer	5.00			4733.00	29.00 Bottom Of Top Packer
Packer	4.00			4737.00	
Stubb	1.00			4738.00	
Recorder	0.00	6771	Inside	4738.00	
Recorder	0.00	8524	Outside	4738.00	
Bullnose	3.00			4741.00	4.00 Bottom Packers & Anchor

**Total Tool Length: 33.00**





**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Carmen Schmitt, Inc.

**20-24S-23W Hodgeman,KS**

PO Box 47  
Great Bend, KS 67530

**Holman #1**

Job Ticket: 63348

**DST#: 2**

ATTN: Brad Rine

Test Start: 2018.01.30 @ 17:27:11

**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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.38 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5900.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
90.00	M	0.443

Total Length: 90.00 ft      Total Volume: 0.443 bbl

Num Fluid Samples: 0

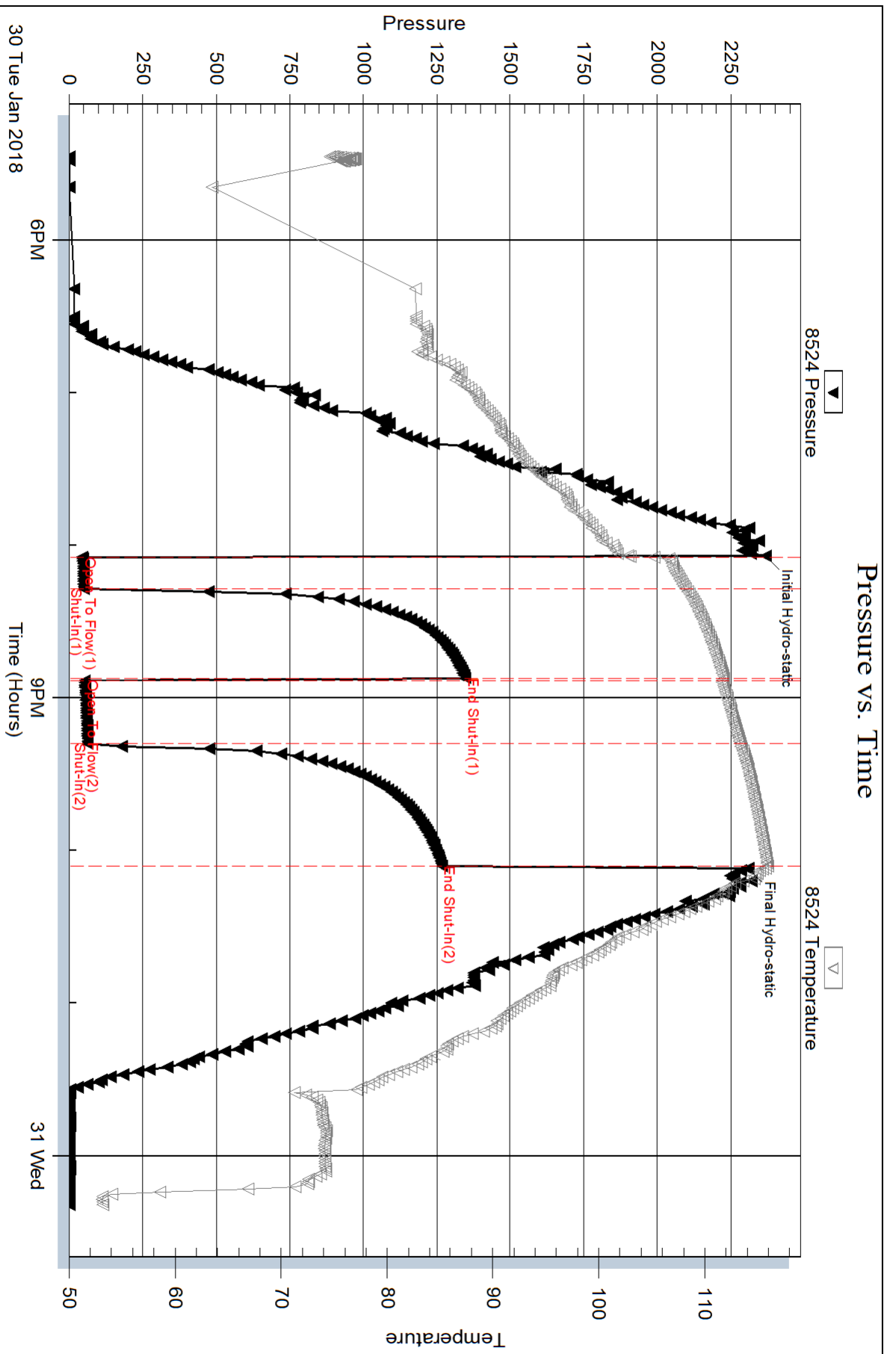
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



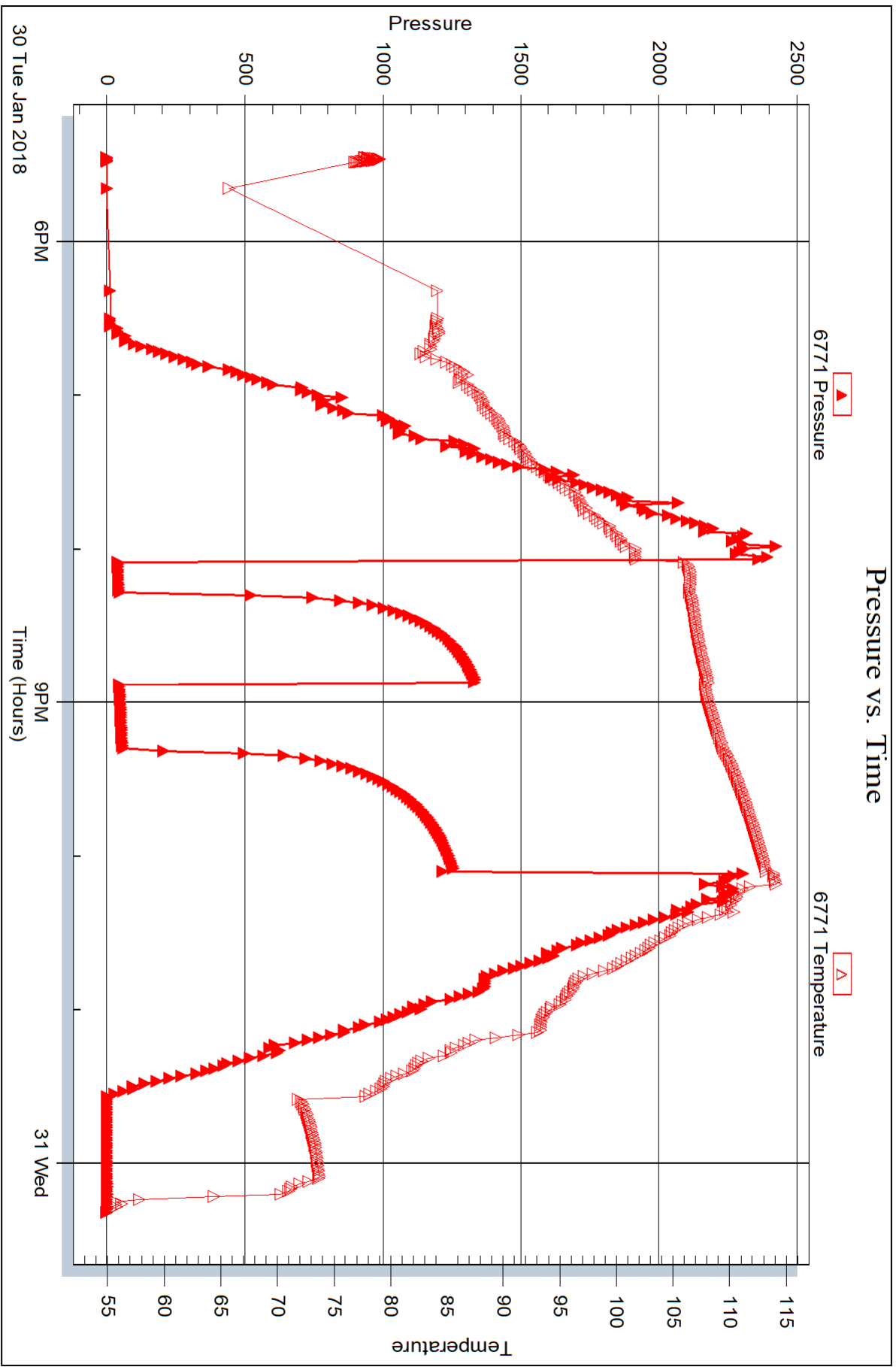
Serial #: 6771

Inside

Carmen Schmitt, Inc.

Holman #1

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 63348

Printed: 2018.02.01 @ 11:32:36



## DRILL STEM TEST REPORT

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

PO Box 47  
Great Bend, KS 67530

ATTN: Brad Rine

### **Holman #1**

#### **20-24S-23W Hodgeman,KS**

Start Date: 2018.01.31 @ 07:19:01

End Date: 2018.01.31 @ 11:34:52

Job Ticket #: 63349                      DST #: 3

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

Printed: 2018.02.01 @ 11:27:13



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

**20-24S-23W Hodgeman, KS**

**Holman #1**

Job Ticket: 63349 **DST#: 3**  
 Test Start: 2018.01.31 @ 07:19:01

## GENERAL INFORMATION:

Formation: **Mississippi**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 08:57:22 Tester: Brannan Lonsdale  
 Time Test Ended: 11:34:52 Unit No: 73  
 Interval: **4741.00 ft (KB) To 4747.00 ft (KB) (TVD)** Reference Elevations: 2429.00 ft (KB)  
 Total Depth: 4747.00 ft (KB) (TVD) 2424.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

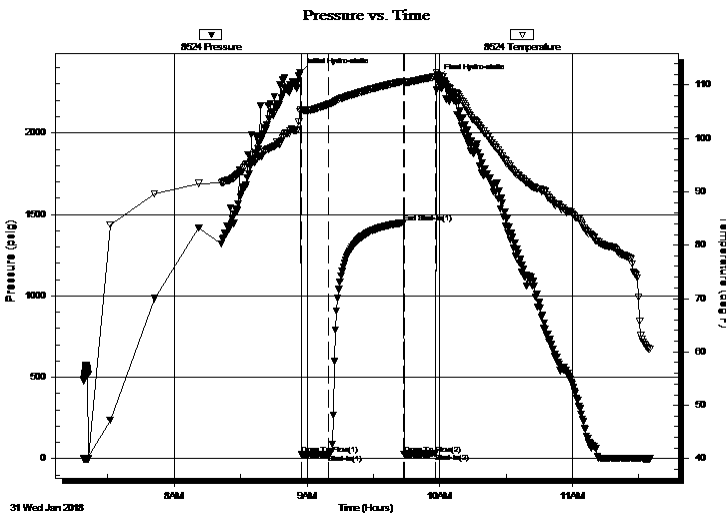
**Serial #: 8524**

**Outside**

Press@RunDepth: 28.68 psig @ 4744.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2018.01.31 End Date: 2018.01.31 Last Calib.: 2018.01.31  
 Start Time: 07:19:02 End Time: 11:34:52 Time On Btm: 2018.01.31 @ 08:57:07  
 Time Off Btm: 2018.01.31 @ 09:58:52

TEST COMMENT: 15- IF- Slowly built to 1/2"  
 30- IS- No blow  
 15- FF- Weak surface blow died in 6 mins. Pulled tool

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2370.23	105.40	Initial Hydro-static
1	25.76	105.00	Open To Flow (1)
13	28.68	106.34	Shut-In(1)
47	1448.81	110.63	End Shut-In(1)
47	29.62	110.33	Open To Flow (2)
61	31.88	111.56	Shut-In(2)
62	2333.05	111.97	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	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  
  
ATTN: Brad Rine

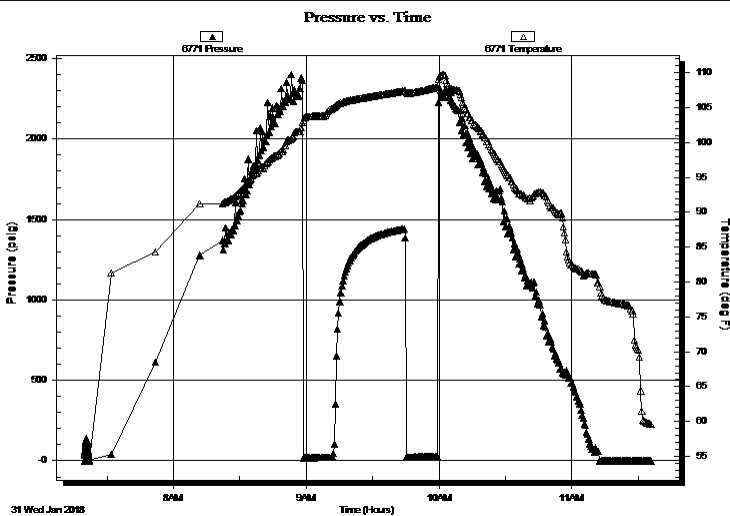
**20-24S-23W Hodgeman, KS**  
  
**Holman #1**  
Job Ticket: 63349 **DST#: 3**  
Test Start: 2018.01.31 @ 07:19:01

**GENERAL INFORMATION:**

Formation:	<b>Mississippi</b>	
Deviated:	No Whipstock:	ft (KB)
Time Tool Opened:	08:57:22	
Time Test Ended:	11:34:52	
<b>Interval:</b>	<b>4741.00 ft (KB) To 4747.00 ft (KB) (TVD)</b>	Test Type: Conventional Bottom Hole (Reset)
Total Depth:	4747.00 ft (KB) (TVD)	Tester: Brannan Lonsdale
Hole Diameter:	7.88 inches Hole Condition: Fair	Unit No: 73
		Reference Elevations: 2429.00 ft (KB) 2424.00 ft (CF)
		KB to GR/CF: 5.00 ft

<b>Serial #: 6771</b>	<b>Inside</b>		
Press@RunDepth:	psig @	4744.00 ft (KB)	Capacity: 8000.00 psig
Start Date:	2018.01.31	End Date:	2018.01.31
Start Time:	07:19:48	End Time:	11:35:53
		Time On Btm:	
		Time Off Btm:	

**TEST COMMENT:** 15- IF- Slowly built to 1/2"  
30- ISI- No blow  
15- FF- Weak surface blow died in 6 mins. Pulled tool



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
15.00	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  
ATTN: Brad Rine

**20-24S-23W Hodgeman,KS**

**Holman #1**

Job Ticket: 63349

**DST#: 3**

Test Start: 2018.01.31 @ 07:19:01

## Tool Information

Drill Pipe:	Length: 4612.00 ft	Diameter: 3.82 inches	Volume: 65.38 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	78000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
			- bbl	String Weight: Initial	65000.00 lb
Drill Pipe Above KB:	19.00 ft			Final	65000.00 lb
Depth to Top Packer:	4741.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	6.00 ft				
Tool Length:	35.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4713.00	
Shut In Tool	5.00			4718.00	
Hydraulic tool	5.00			4723.00	
Jars	5.00			4728.00	
Safety Joint	3.00			4731.00	
Change Over Sub	1.00			4732.00	
Packer	5.00			4737.00	29.00 Bottom Of Top Packer
Packer	4.00			4741.00	
Stubb	1.00			4742.00	
Perforations	2.00			4744.00	
Recorder	0.00	6771	Inside	4744.00	
Recorder	0.00	8524	Outside	4744.00	
Bullnose	3.00			4747.00	6.00 Bottom Packers & Anchor

**Total Tool Length: 35.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Carmen Schmitt, Inc.

**20-24S-23W Hodgeman,KS**

PO Box 47  
Great Bend, KS 67530

**Holman #1**

Job Ticket: 63349

**DST#: 3**

ATTN: Brad Rine

Test Start: 2018.01.31 @ 07:19:01

## 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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5900.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	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:



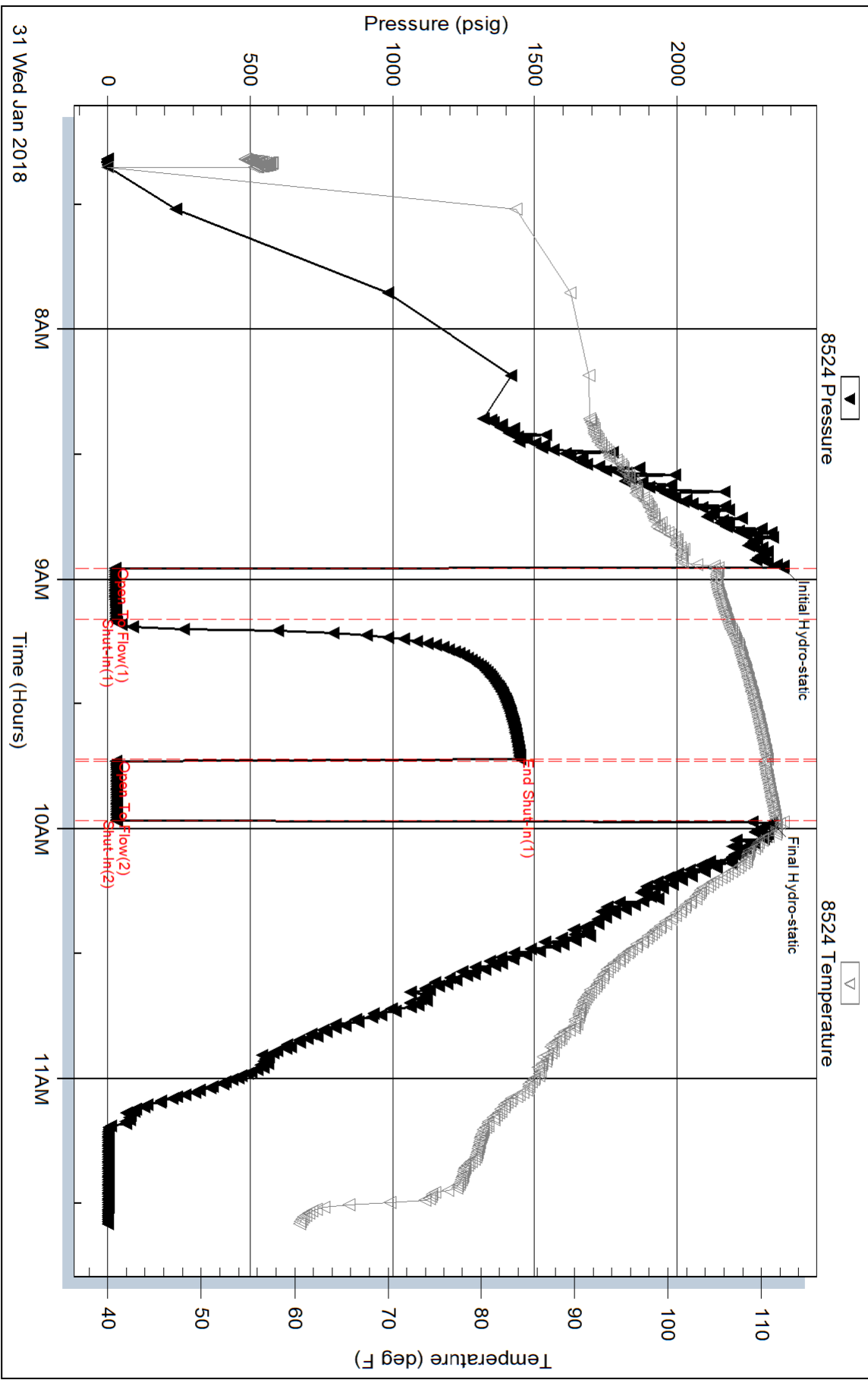
Serial #: 8524

Outside Carmen Schmitt, Inc.

Holman #1

DST Test Number: 3

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 63349

Printed: 2018.02.01 @ 11:27:15

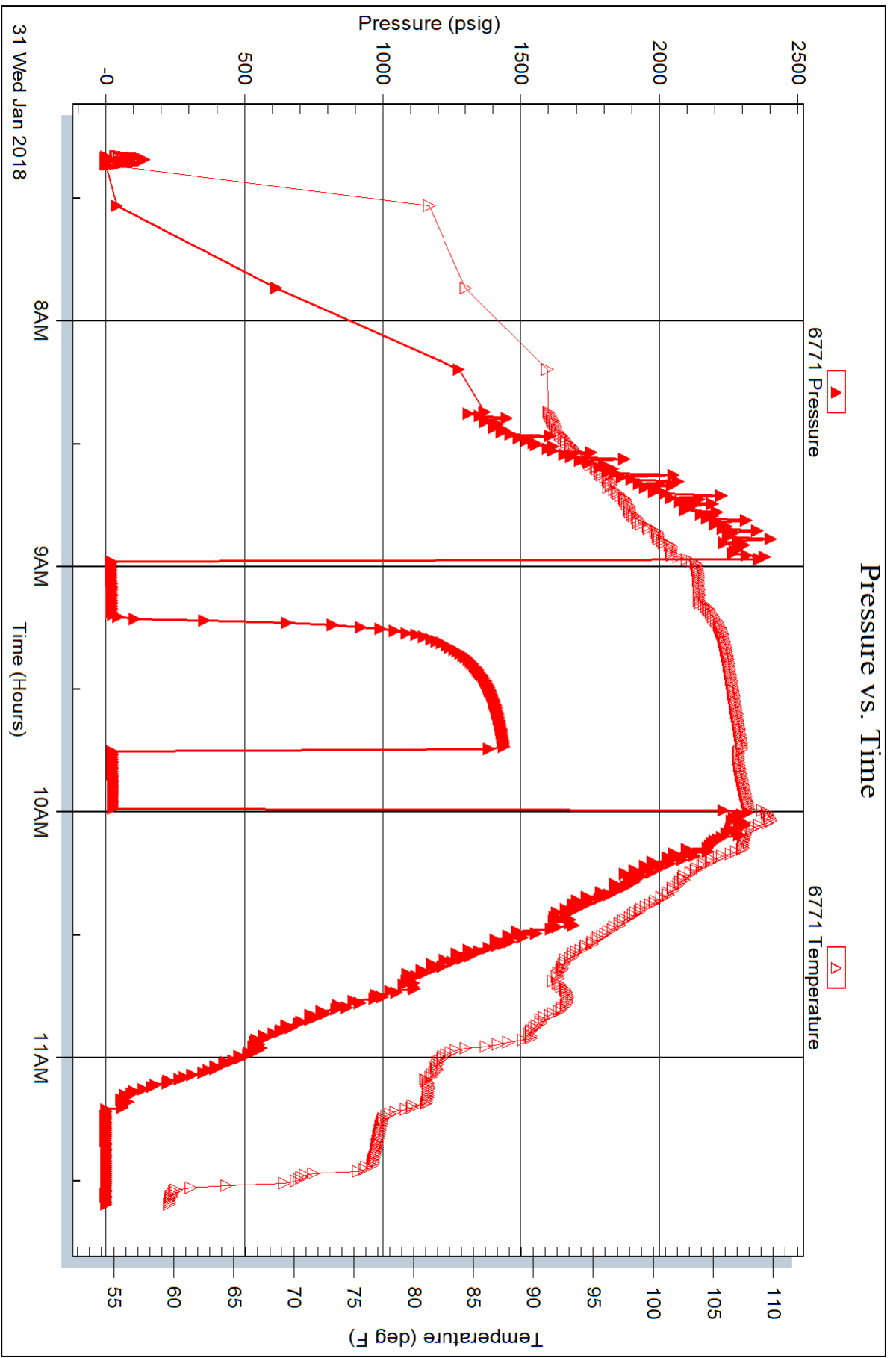
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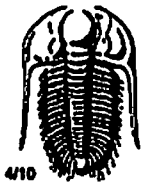
Inside

Carmen Schmitt, Inc.

Holman #1

DST Test Number: 3





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 63347

Well Name & No. Hblman #1 Test No. 1 Date 1/30/18  
 Company Carmen Schmitt, Inc Elevation 2429 KB 2424 GL  
 Address PO Box 42 Creek Bend, KS 67530  
 Co. Rep / Geo. Brad Rine Rig WW #10  
 Location: Sec. 20 Twp 24 S Rge. 23 W Co. Hodgeman State KS

Interval Tested 4647-4737 Zone Tested Cherokee + Miss  
 Anchor Length 90' Drill Pipe Run 4521 Mud Wt. 9.45  
 Top Packer Depth 4642 Drill Collars Run 119 Vis 56  
 Bottom Packer Depth 4647 Wt. Pipe Run --- WL 7.6  
 Total Depth 4737 Chlorides 4,200 ppm System LCM 1 1/2 #

Blow Description IF-BOB 10mins  
ISF-Surface blow died in 5mins  
FF-BOB 8mins  
FSF-Slowly built to 4" in 44mins. Slowly died back to 3"

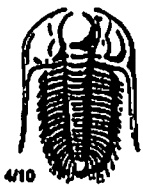
Rec	Feet of	%gas	%oil	%water	%mud
<u>487</u>	<u>GMCO</u>	<u>30</u>	<u>60</u>	<u>10</u>	<u>---</u>
Rec	Feet of <u>581' LTP</u>	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 487 BHT 118° Gravity 32 API RW --- @ --- ° F Chlorides --- ppm  
 (A) Initial Hydrostatic 2339  Test 1150 T-On Location 0149  
 (B) First Initial Flow 39  Jars 250 T-Started 0203  
 (C) First Final Flow 106  Safety Joint 75 T-Open 0517  
 (D) Initial Shut-In 1349  Circ Sub --- T-Pulled 0832  
 (E) Second Initial Flow 102  Hourly Standby --- T-Out 1056  
 (F) Second Final Flow 213  Mileage 188 RT 181rt 135.75 Comments ---  
 (G) Final Shut-In 1297  Sampler ---  
 (H) Final Hydrostatic 2327  Straddle ---  
 Ruined Shale Packer ---  
 Ruined Packer ---

Initial Open 15  Extra Packer ---  Extra Copies ---  
 Initial Shut-In 30  Extra Recorder ---  
 Final Flow 60  Day Standby ---  
 Final Shut-In 90  Accessibility ---  
 Sub Total 2110.75 Total 2110.75 MP/DST Disc't ---

Approved By \_\_\_\_\_ Our Representative Brannon Lonsdale

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 63348

Well Name & No. Holman #1 Test No. 2 Date 1/30/18  
 Company Carmen Schmitt, Inc. Elevation 2429 KB 2424 GL  
 Address PO Box 47 Great Bend, KS 67530  
 Co. Rep / Geo. Brad Rine Rig WW #10  
 Location: Sec. 20 Twp 24 S Rge. 23 W Co. Hodgeman State KS

Interval Tested 4737-4741 Zone Tested MISS  
 Anchor Length 4' Drill Pipe Run 4612 Mud Wt. 9.2  
 Top Packer Depth 4732 Drill Collars Run 119 Vis 50  
 Bottom Packer Depth 4737 Wt. Pipe Run — WL 10.4  
 Total Depth 4741 Chlorides 3,900 ppm System LCM 2#

Blow Description IF - Slurry built to 1"  
FST - No blow  
FF - Slurry built to 1"  
FST - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>90</u>	<u>M</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 90' BHT 116° Gravity — API RW — @ — F Chlorides — ppm  
 (A) Initial Hydrostatic 2369  Test 1150 T-On Location 1716  
 (B) First Initial Flow 45  Jars 250 T-Started 1727  
 (C) First Final Flow 51  Safety Joint 75 T-Open 2004  
 (D) Initial Shut-In 1347  Circ Sub — T-Pulled 2204  
 (E) Second Initial Flow 53  Hourly Standby — T-Out 1/31 0019  
 (F) Second Final Flow 63  Mileage 188 RT 135.75 Comments —  
 (G) Final Shut-In 1267  Sampler —  
 (H) Final Hydrostatic 2310  Straddle —  Ruined Shale Packer —  
 Shale Packer X2 500  Ruined Packer —

Initial Open 15  Extra Packer —  Extra Copies —  
 Initial Shut-In 30  Extra Recorder — Sub Total 0  
 Final Flow 30  Day Standby — Total 2110.75  
 Final Shut-In 45  Accessibility — MP/DST Disc't —  
 Sub Total 2110.75

Approved By \_\_\_\_\_ Our Representative Brannon Lonsdale

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 63349

Well Name & No. Holman #1 Test No. 3 Date 1/31/18  
 Company Carmen Schmitt, Inc. Elevation 2429 KB 2424 GL  
 Address PO Box 47 Great Bend, KS 67530  
 Co. Rep / Geo. Brad Rine Rig WW #10  
 Location: Sec. 20 Twp 24 S Rge. 23 W Co. Hodgeman State KS

Interval Tested 4741-4747 Zone Tested Miss  
 Anchor Length 6' Drill Pipe Run 4612 Mud Wt. 9.0  
 Top Packer Depth 4736 Drill Collars Run 119 Vis 50  
 Bottom Packer Depth 4741 Wt. Pipe Run \_\_\_\_\_ WL 10.4  
 Total Depth 4747 Chlorides 5,900 ppm System LCM 2#

Blow Description IF - Skanky burst to 1/2"  
ISI - No blow  
FF - Weak surface blow died in 6 mins. Pulled tool  
FSI -

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>M</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 15' BHT 112° Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm  
 (A) Initial Hydrostatic 2370  Test 1150 T-On Location 0716  
 (B) First Initial Flow 26  Jars 250 T-Started 0719  
 (C) First Final Flow 29  Safety Joint 75 T-Open 0858  
 (D) Initial Shut-In 1449  Circ Sub \_\_\_\_\_ T-Pulled 0958  
 (E) Second Initial Flow 30  Hourly Standby \_\_\_\_\_ T-Out 1135  
 (F) Second Final Flow 32  Mileage 188 RT 135.75+135.9 Comments Tools loaded  
 (G) Final Shut-In \_\_\_\_\_  Sampler \_\_\_\_\_ 1/31 @ 2245  
 (H) Final Hydrostatic 2333  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer XD 500  Ruined Packer \_\_\_\_\_

Initial Open 15  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Shut-In 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Flow 15  Day Standby \_\_\_\_\_ Total 2246.50  
 Final Shut-In \_\_\_\_\_  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 2246.50

Approved By \_\_\_\_\_ Our Representative Brannen Lonsdale

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

**Well Name:** Holman #1 - Carmen Schmitt, Inc.  
**API:** 15-083-21947-00-00  
**Location:** E2-NE-NW-NW, Section 20-24S-23W  
**License Number:** KCC #6569  
**Spud Date:** January 23, 2018  
**Surface Coordinates:** 330'FNL & 1108'FWL,  
of Section  
**Bottom Hole Vertical Wellbore Coordinates:**  
**Ground Elevation (ft):** 2424 Ft.      **K.B. Elevation (ft):** 2429 Ft.  
**Logged Interval (ft):** 3450 Ft.    **To:** 4840 Ft.    **Total Depth (ft):** RTD 4840 Ft. LTD 4838 Ft.  
**Formation:** Mississippian at Total Depth  
**Type of Drilling Fluid:** Chemical

**Region:** Hodgeman Co., Ks  
**Drilling Completed:** February 01, 2018  
**Results:** 5-1/2" Csg Set  
**Field:** Wildcat

Printed by MudLog from WellSight Systems 1-800-447-1534 [www.WellSight.com](http://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 set production casing for further testing, on the "Holman #1", on February 01, 2018.

Respectfully submitted,  
M. Bradford Rine, geologist

**Carmen Schmitt, Inc.**  
**"Holman #1"**  
**Section 20-24S-23W, Hodgeman County, Kansas**



**Drilling Information**

**Rig: WW Drilling, Rig #10**  
**Pump: National K-380 6x14**  
**Drawworks: National T32**  
**Collars: 479' 6-1/4 x 2-1/4**  
**Drillpipe: 4-1/2" XH**  
**Toolpusher: Josh Shaw**

**Mud: Mudco (Justin Whiting)**  
**Gas Detector: None**  
**Drill Stem Tests: Trilobite (Brannan Lonsdale)**  
**Logs: Pioneer (J. Henrickson)**  
**Water: Saw Log Creek (Gabel Tank)**  
**Company Representatives:**  
**Office: Carmen Schmitt**  
**Field: Curtis Hitchmann**

## Daily Drilling Status

**Date: Operations/Depth/Comments**  
 01-23-18 MIRT, RU, Spud @ 0'  
 01-24-18 Waiting on Cement @ 218'  
 01-25-18 Drilling @ 1910'  
 01-26-18 Drilling @ 2940'  
 01-27-18 Drilling @ 3665'  
 01-28-18 Drilling @ 4262'  
 01-29-18 Drilling @ 4599'  
 01-30-18 On Bottom with DST 1 @ 4737'  
 01-31-18 Trip Out of Hole for DST 3 @ 4747'  
 02-01-18 Waiting on Orders, after logs @ 4840', Ran production casing and cemented. Job complete and rig released 9:30 PM, 02-01-2018.

	Results: Oil			(Well A) Dry		(Well B) Dry			
	Carmen Schmitt, Inc			KWB Oil Properties		John O Farmer			
	Holman #1			Vernon Oliphant #1		#1 Fagen			
	330'FNL & 1108'FWL			3300'FSL & 660'FEL		1300'FNL & 900'FEL			
	Sec. 20-24S-23W			Sec. 19-24S-23W		Sec. 21-24S-23W			
	2429	KB		2427	KB	2350	KB	Well A	Well B
Formations	Sample	E-Log	Datum	E-Log	Datum	Sample	Datum	Comparison(s)	
Anhydrite	1566	1563	866	1568	859	1506	844	7	22
Topeka	3590	3584	-1155	3592	-1165	3538	-1188	10	33
Heebner Sh.	3974	3971	-1542	3984	-1557	3922	-1572	15	30
Toronto	3996	3988	-1559	4002	-1575	3944	-1594	16	35
Lansing	4042	4039	-1610	4054	-1627	3992	-1642	17	32
Stark Sh.	4359	4355	-1926	4364	-1937	4301	-1951	11	25
B/Kansas City	4470	4466	-2037	4475	-2048	4412	-2062	11	25
Marmaton	4490	4486	-2057	4497	-2070	4432	-2082	13	25
Pawnee	4586	4581	-2152	4590	-2163	4523	-2173	11	21
Ft. Scott	4612	4610	-2181	4615	-2188	4556	-2206	7	25
Cherokee Sh.	4638	4634	-2205	4644	-2217	4580	-2230	12	25
Mississippian	4723	4721	-2292	4733	-2306	4652	-2302	14	10
Mis Dolo. Porosity	4737	4734	-2305	4740	-2313	4662	-2312	8	7
Total Depth	4840	4838	-2409	4853	-2426	4702	-2352	17	-57



## Casing Record, Bit Record, Deviation Surveys

### CASING:

Conductor: None

Surface: Ran 5 joints 8-5/8" 23#, set @ 218'. 220' \*{while drilling, surface pipe fell 2 ft., pressure tested, no circulation} (Copeland) Cement with 190sx Common 3% CC, 2% gel. Cement did circulate.

Production: Ran 117 jts new 14# 5 1/2, Midwestern Pipeworks pipe. (Swift) Mixed 440 Sx with 1/4lb flow seal at 11.2 ppg. followed by 75 Sx EA2 with 1/4lb flow seal at 15.5 ppg. Circulated 25 Sx cement to pit. Landed plug at 2000#. Plug held. Job Complete. Rig Released 9:30 PM, 02/01/2018.

### BITS:

No.	Size	Make	Model	Depth In	Depth Out	Hours
1	12-1/4	Smith	Tooth	0	218	2.75
2	7-7/8	Smith	F27	218	4737	114.25
3	7-7/8	Smith	F27rr	4737	4840	4.50

### DEVIATION SURVEYS:

Deviation:	Depth:	Deviation:	Depth:
0.75*	218'	2.00*	4840'
1.00*	4737'		

**DST #1: 4647-4737 (Cherokee, Mississippi)**

**Times: 15-30-45-60**

**Initial Open: Stg Blow, b.o.b. 10 min,  
weak surface return blow-died in 5 min  
Final Open: Stg Blow, b.o.b. 8 min,  
Return blow built to 4 inches in bucket,  
decr to 3 inches**

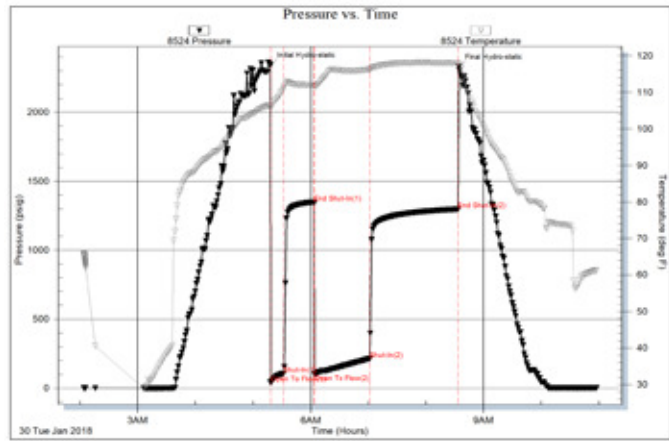
**Rec: 581' gas in pipe, 487' Total Fluid  
487' GMCO: 30%g 60%o 10%m  
(Oil 32\* API)**

**IHP: 2339 FHP: 2327**

**IFP: 39-106 FFP: 102-213**

**ISIP: 1349 FSIP: 1297**

**BHT: 118°F**



**DST #2: 4737-4741 (Mississippi)**

**Times: 15-30-30-45**

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

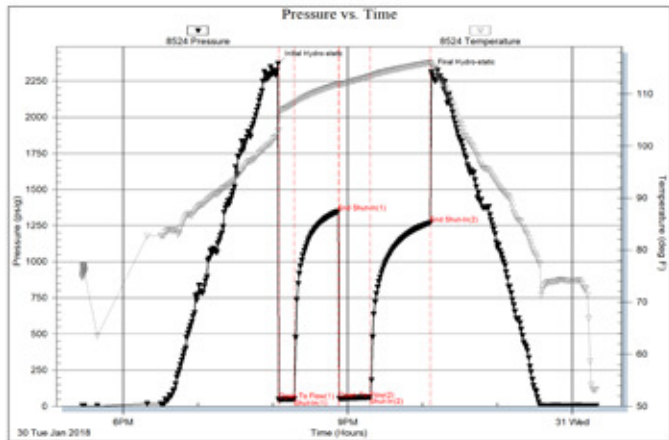
**Rec: 90' mud**

**IHP: 2369 FHP: 2310**

**IFP: 45-51 FFP: 53-63**

**ISIP: 1347 FSIP: 1267**

**BHT: 116°F**



**DST #3: 4741-4747 (Mississippi)**

**Times: 15-30-15-out**

**Initial Open: Wk Blow, built to 1/2"  
Final Open: Wk Surf Blow, died in 6 min**

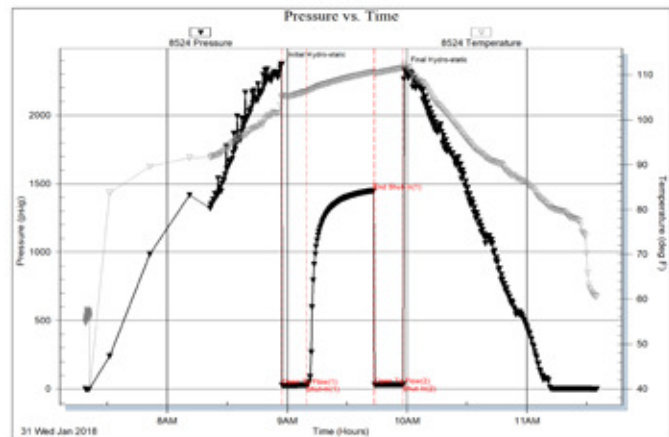
**Rec: 15' mud**


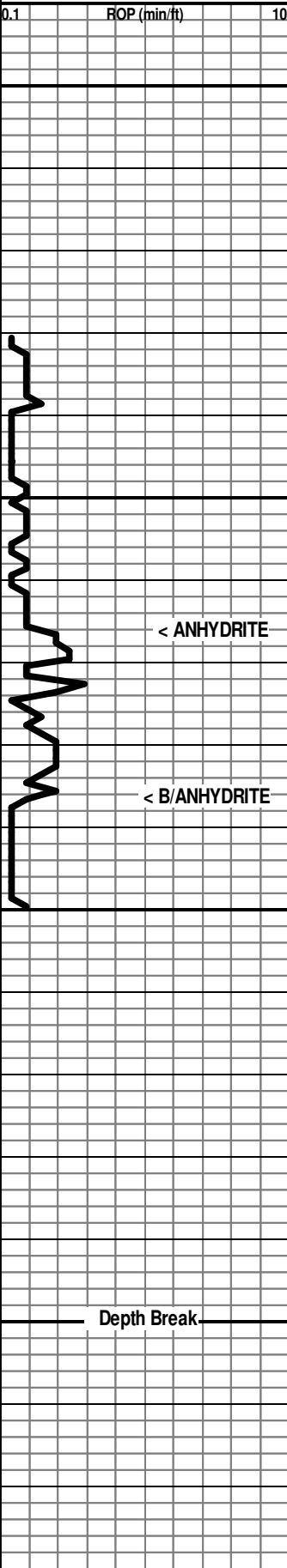
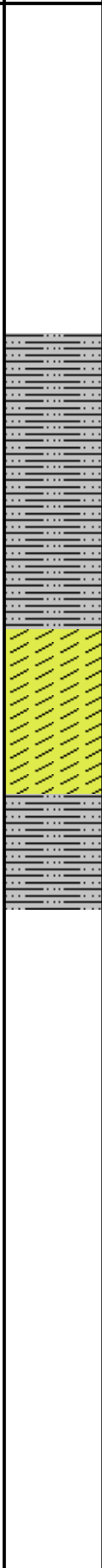
**IHP: 2370 FHP: 2333**

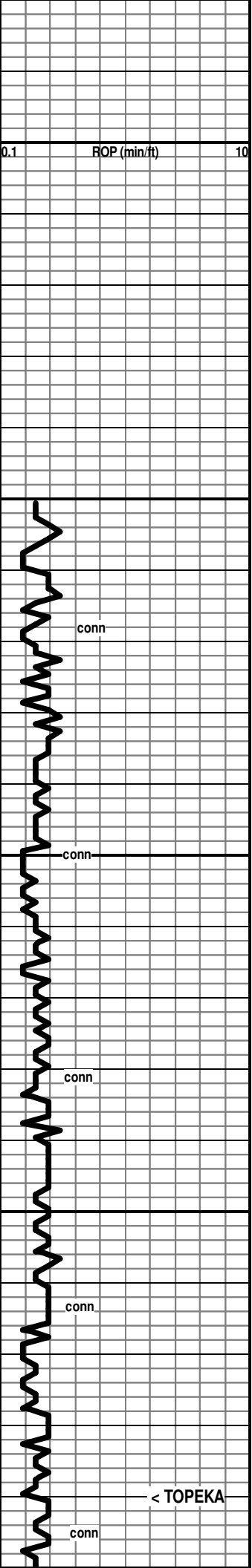
**IFP: 26-29 FFP: 30-32**

**ISIP: 1449 FSIP: NA**

**BHT: 112°F**



<p>ROP (min/ft)</p> <p>ROP (min/ft) </p>	Depth	Lithology	Geological Descriptions	Remarks
<p>0.1 ROP (min/ft) 10</p> 	<p>1500</p> <p>500</p> <p>1600</p> <p>Depth Break</p>	<p>Shows</p> 	<p>&lt; ANHYDRITE</p> <p>← 1566 (+863)</p> <p>Anhydrite Interval: Based on drill time only!</p> <p>← 1586 (+843)</p>	



3400

3450

3500

3550

3600

conn

conn

conn

conn

conn

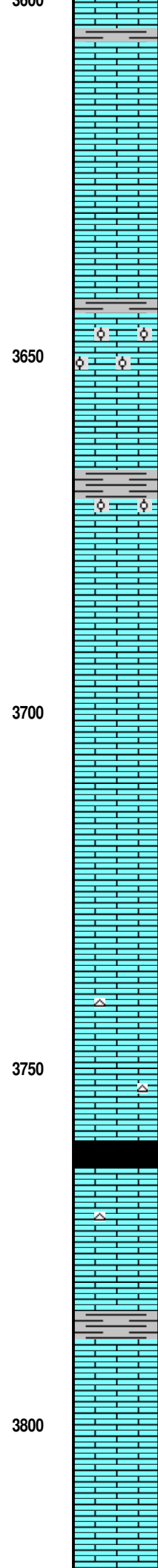
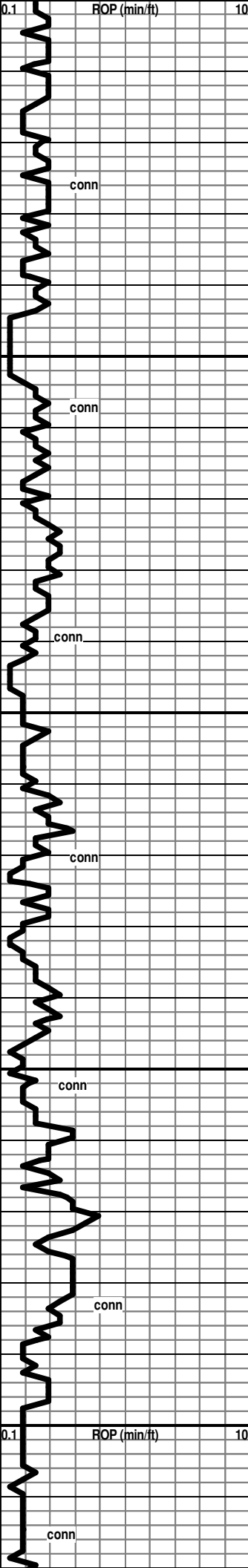
\* Samples Lagged!

Sh gy-dk gy, silty in pt, calc in pt

< TOPEKA

← 3590 (-1161)

Ls cr-tan-gy, fn xln, dns, foss, scatt blk foss/shale specks



Sh gy

Ls wh-cr, fn xln, dns & hard to softer & subchalky, foss

Sh gy

Ls cr-tan-gy, fn xln, packed oolitic with fr-gd interool pores

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

Sh gy

Ls cr, f xln, dns to pr-fr xln por with scatt mico-oom, foss

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

Ls cr-tan-gy, fn xln, dns in pt, pr-fr xln por in pt, subchalky in pt, foss, some gy, gritty chert, opaq, foss/spiculitic

Sh dk gy-black, carb in pt

Ls cr-tan-gy. vfn-fn xln, much dns, some pr xln por, foss

Sh gy

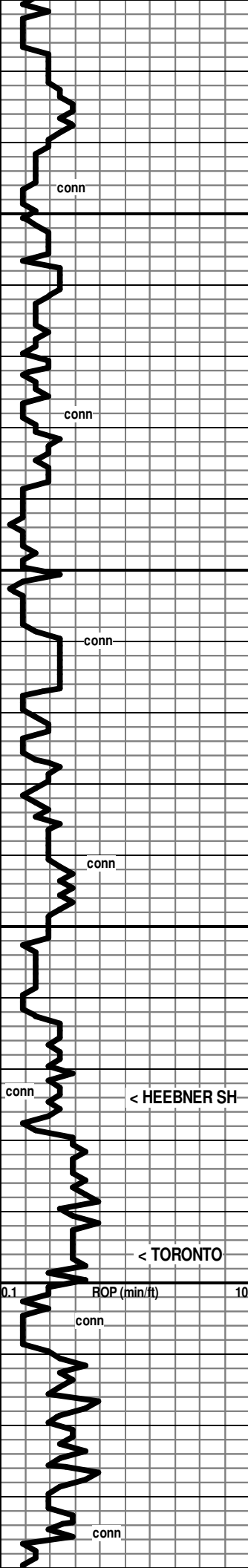
Ls wh-cr-tan, fn xln, chalky in pt, pr-fr xln por in pt, foss with scatt foss pores

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

Mudcheck: Drlg @ 3662'

Vis	Wt	WL	LCM	PV	YP
71	8.9	7.2	2	18	22
Chl	Hd	pH	Solids		
4100	20	11.0	4.1		

7:00 AM, January 27, 2018

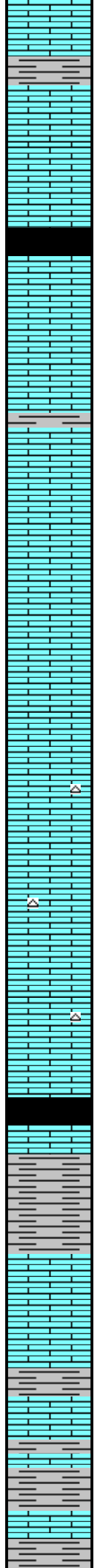


3850

3900

3950

4000



Sh gy

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

Sh black, hard, carb

Ls wh-cr, fn xln, dns to pr xln por in pt, abund soft & chalky (washes white) foss

Sh gy

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

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

Ls wh-cr-tan, fn xln, much soft & chalky, some dns to pr xln por, foss (washes white)

Ls wh-cr-tan, chalky to dns or pr xln por, foss, scatt embedded calcite, some chert pcs: grainy text, foss

Ls wh-cr-tan-gy, chalky to dns or pr xln por, foss, scatt embedded calcite, some chert pcs: grainy text, foss

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

<----- 3974 (-1545)

Sh black, carb

Ls tan-gy, vfn xln, dns, foss

Sh pl gy-gy, mushy to subsilty & more firm

<----- 3996 (-1527)

Ls cr-tan, fn xln, subsucr in pt, pr-fr xln por with scatt vugs & pp pores, foss to abund foss, cherty: fresh, wh/gy mix, foss, opa

Sh pl gy-gy soft to firm

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

Sh gy

< HEEBNER SH

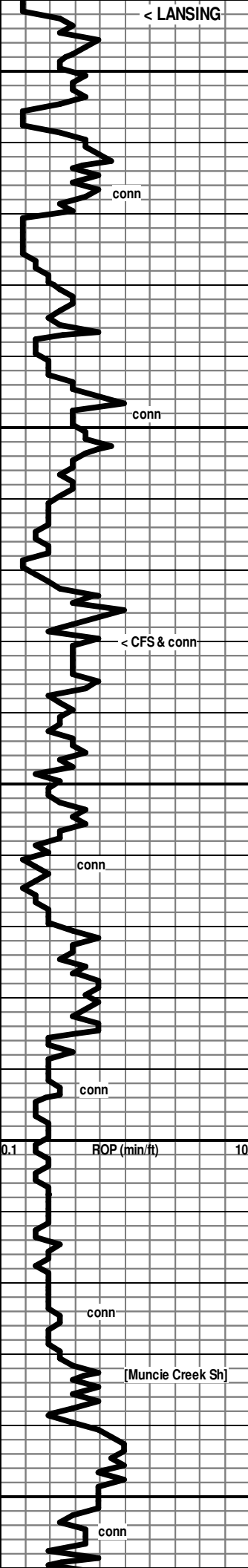
< TORONTO

ROP (min/ft)

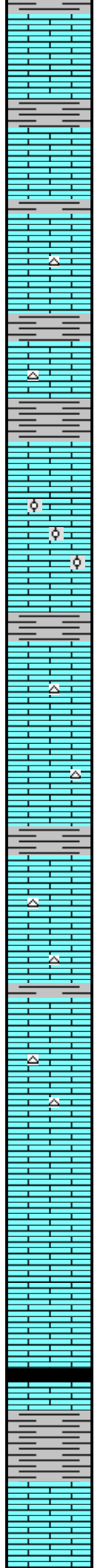
0.1

10

conn



4050  
4100  
4150  
4200  
4250



← 4042 (-1613)

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

Sh gy

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

Sh gy

Ls cr-tan, fn xln, some sucrosic/dolom pcs, pr-fr xln por in pt, foss in pt, cherty in pt

Ls cr, fn xln, pr xln por, foss

Ls cr, fn xln, pr-fr xln por in pt, micro-pp pores in pt, foss, chert: fresh, cr, subopaq

Sh gy

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

Ls cr-gy, fnxln, some dns, abund pr-fr xln por with scatt pp pores, foss to abund foss, ool in pt

Sh gy

Ls cr-tan-brn-dk gy, vfn-fn xln, dns to pr xln por, chert: fresh, brn-gy mix, transl, foss in pt (some weath'd to gy)

Ls cr, fn xln, pr xln por, foss in pt

Sh gy

Ls wh-cr-tan, fn xln, some soft to mushy and chalky, pr xln por to dns in pt, foss in pt, chert: fresh to subgrainy text, white, sub opaq

Sh gy

Ls cr-tan, fn xln, pr vis xln por, foss, chert: fresh pl gy, subopaq

Ls wh-cr-pl gy, vfn-fn xln, soft & chalky in pt, pr vis xln por to dns in pt, sli foss in pt

Ls wh-cr-pl gy, vfn-fn xln, soft & chalky in pt, pr xln por with some fr xln por, dns in pt, sli foss in pt

Sh black, carb

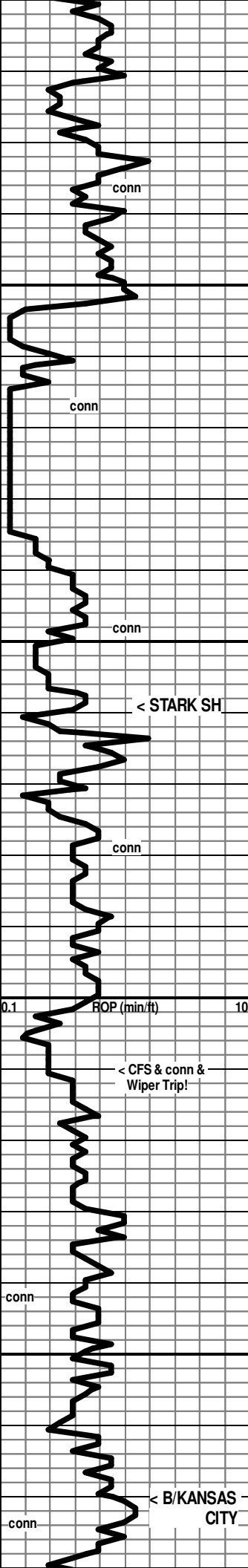
Ls cr, fn xln, dns

Sh gy, subsilty text in pt

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

0.1 ROP (min/ft) 10

[Muncie Creek Sh]

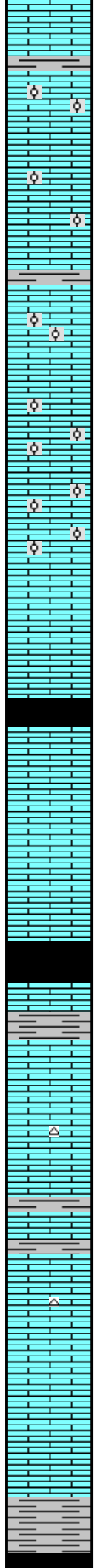


4300

4350

4400

4450



Ls cr-tan-gy, fn xln, mostly dns with Rr scatt sm foss molds, foss

Sh gy

Ls cr, fn xln, packed ool (mostly well cem) scatt interool pores, foss

Ls cr-tan, cr ls ool, tan ls dns & firm, foss

Sh gy

Ls cr, fn xln, mostly packed ool (cem to scatt interool pores) Rr interool pyrite specks

Ls cr-tan fn xln, dns, foss

Ls cr, fn xln, mostly packed ool (cem to scatt interool pores) Rr interool pyrite specks

Ls cr, fn xln, mostly packed ool (cem to scatt interool pores) Rr interool pyrite specks, becomes abundantly oom in lower portion of break

Ls cr-tan, fn xln, dns, foss

Ls cr-tan, fn xln, possibly ool?

← 4359 (-1930)  
Sh black, carb (repres in 4370' spl, well-repres in 4380' spl)

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

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

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

Sh black, carb (repres'd in 4410' spl)

Sh gy

Ls cr-tan, vfn-fn xln, dns in pt, pr xln por in pt, foss, scatt embedded pyrite xls

Ls cr-tan-brn, vfn xln, dns, foss in pt, chert: fresh, dk, opa

Sh dk gy-blk

Ls cr-tan-brn, vfn xln, dns, foss in pt, chert: fresh to subgrainy text in pt, mix wh/brn, opa

Ls wh-cr-tan-gy, vfn-fn xln, mostly dns & hard, some softer & subchalky

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

← 4470 (-2041)

Sh pl gy-gy-dk gy-brnsh-grn-black, subsilty in pt, calc in pt

Mudcheck: Drig @ 4286'

Vis	Wt	WL	LCM	PV	YP
52	9.3	7.2	1	16	18
Chl	Hd	pH	Solids		
5300	20	11.0	6.8		

\* Ran 55-Std Wiper Trip @ 4410': To condition hole and prepare for possible DSTs below!

< STARK SH

< CFS & conn & Wiper Trip!

< B/KANSAS CITY

conn

conn

conn

conn

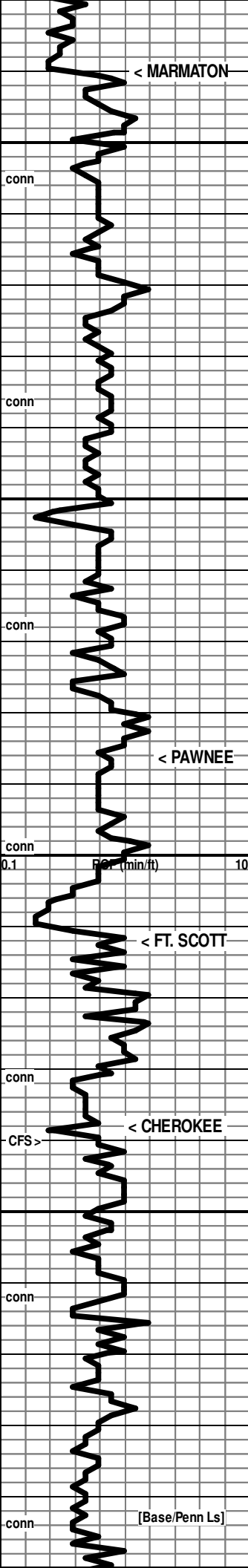
ROP (min/ft)

0.1 10

conn

conn





4500  
4550  
4600  
4650  
4700



← 4490 (-2061)  
 Ls wh-cr-tan, vfn-fn xln, mostly dns, some chalky, foss  
 Sh gy  
 Ls wh-cr-tan, vfn-fn xln, mostly dns, some chalky, foss  
 Ls wh-cr, vfn-fn xln, dns, sli foss in pt  
 Sh gy-gmish gy  
 Ls wh-cr, vfn-fn xln, dns, some chalky, sli foss in pt  
 Sh black, carb  
 Ls wh-cr, vfn-fn xln, dns, some chalky, sli foss in pt, chert: fresh, cr, transl  
 Sh black, carb  
 ← 4586 (-2157)  
 Ls cr-tan-gy, vfn-fn xln, dns, sli foss in pt, chert: fresh, tan, subtransl  
 Sh black, carb, soft-frim, washes black (abund in 4620' spl)  
**[Black Shale sli gassy in pt]**  
 ← 4612 (-2183)  
 Ls wh-cr-tan, fn xln, mostly dns & hard, some softer & subchalky to chalky, foss in pt  
 Sh gy  
 Ls wh-cr-tan, fn xln, mostly dns & hard, some softer & subchalky-chalky in pt, foss in pt, chert: fresh, tan, transl, spic  
 ← 4638 (-2209)  
 Sh black, carb (repres'd in 4640' 40-min spl)  
 Ls cr-tan, vfn-fn xln, dns, foss  
 Shales gy-dk gy  
 Sh Shales gy-gmish-black, carb in pt  
 Ls cr-tan-pl gy, vfn-fn xln, dns, foss in pt  
 Sh Shales gy-gmish-black, carb in pt  
 Ls cr-tan, vfn-fn xln, dns, foss in pt  
**[No Odor, No fluor, trace of blk dead oil spots]**  
 4710' spl abund shales pl gy-gy-dk gy-pl grn-grn, some reddish, silty in pt  
 4710' 20-min spl 50% shales as above; 50% Ls as above

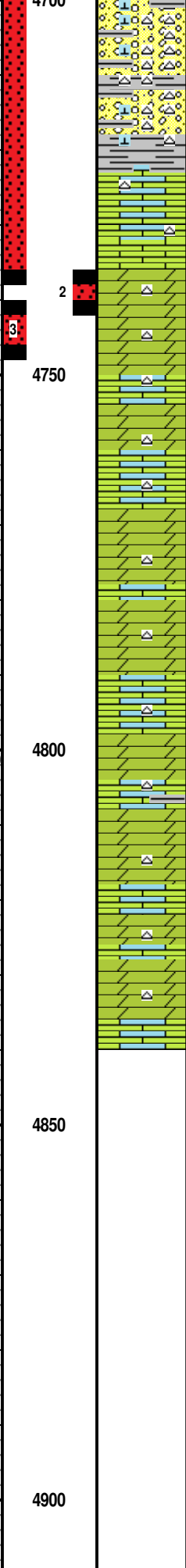
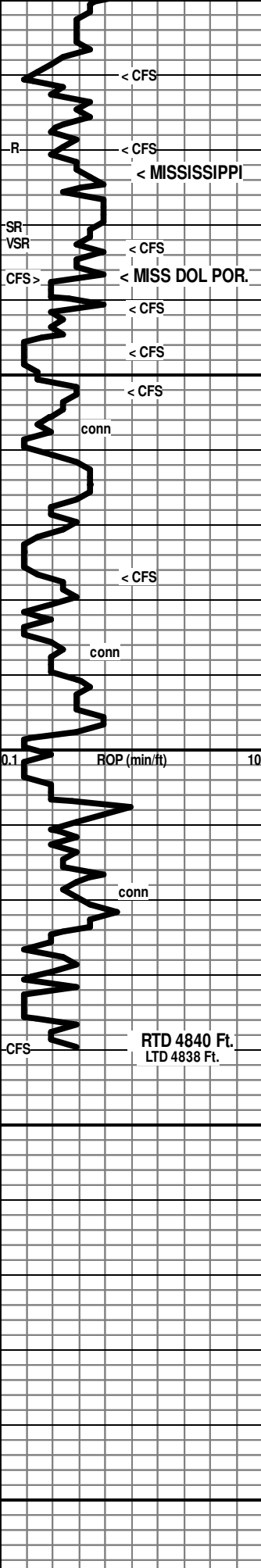
7:00 AM, January 29, 2018

Mudcheck: Drlg @ 4619'

Vis	Wt	WL	LCM	PV	YP
56	9.4	7.2	1.5	19	17
Chl	Hd	pH	Solids		
4200	80	11.0	7.6		

DST #1: 4647-4737 (Cherokee, Mississippi)  
 Times: 15-30-45-60  
 Initial Open: Stg Blow, b.o.b. 10 min, weak surface return blow-died in 5 min  
 Final Open: Stg Blow, b.o.b. 8 min, Return blow to 4 inches in bucket, decr to 3 inches  
 Rec: 581' gas in pipe, 487' Total Fluid  
 487' GMCO: 30%g 60%o 10%m  
 (Oil 32" API)  
 IHP: 2339 FHP: 2327  
 IFP: 39-106 FFP: 102-213  
 ISIP: 1349 FSIP: 1297  
 BHT: 118°F

[4700-4710: No Odor, Rr V Dull fluor, black resid on weath'd chert edges with Rr dk brn FO on cru



4710' 40-min spl: 40% shales gy-grn-yell, earthy-silty in pt; 55% chert: fresh-grainy, wh-cr-tan, subtr-subop-opaq, Rr weath'd edges & pcs, foss; Rr clusters of fn gm Sd & sltst: gy-grn, subrd, mostly gd sort, some clg clusters fn-crs grn, cem in pt, pr-fr intergrmlr por, Rr dolom ls pcs

<4710-4723': Abund chert as above with addition of orange chert, spiculitic chert in pt, some shale as above with additon of lavender, fewer sdy clusters than above

4723 (-2294)  
Ls & Dol Ls cr, fn xln, subsucr in pt, dns, abund chert in spls  
[No Show]

Ls & Dol Ls & Dol, cr, fn xln, subsucr in pt, mostly dns with some pr xln por & scatt pp pores, abund chert in spls

4737 (-2308)  
Dol wh-cr-gy, fn xln, subsucrosic to sucrosic, mostly pr vis xln por with Rr fr xln por, scatt pp pores, some sm foss molds, cherty

Dol cr-gy, fn xln, suc, pr-frxln por with scatt vugs & pp pores, cherty in pt, scatt pyritic

Dol wh-cr-gy, fn xln, pr-fr xln por, scatt pp pores & s vugs, cherty: fresh, cr, foss, opaq, widely scatt pyrite specks and glauc

Dol-Dol Ls-Limey Dol wh-cr, fn xln, subsucr-sucr in pt, dns to pr vis xln por, scatt pp pores & sm vugs in dol, cherty  
[No Show]

Dol wh-cr-gy, fn xln, pr-fr xln por, scatt pp pores & s vugs, cherty: fresh, cr, foss, opaq, widely scatt pyrite specks  
[No Show]

Dol cr-pl gy, fn xln, pr-fr xln por, abund pp pores & sm vugs, sli cherty; Dol Ls/Limey wh-cr-pl gy, foss  
[No Show]

Dol cr-pl gy, fn xln, pr-fr xln por, abund pp pores & sm vugs, sli cherty; Dol Ls/Limey wh-cr-pl gy, foss, some dns limestone  
[No Show]

Dol cr-pl gy, fn xln, pr-fr xln por, abund pp pores & sm vugs, sli cherty, scatt grn glauc spots; Dol Ls/Limey wh-cr-pl gy, foss, some dns limestone, foss in pt  
[No Show]

Dol cr-pl gy, fn xln, pr-fr-gd xln por, abund pp pores & sm-lg vugs, sli cherty, scatt grn glauc spots; Dol Ls/Limey wh-cr-pl gy, foss, some dns limestone, foss in pt  
[No Show]

brn-dk brn spotted stn in sand clusters, with sli shows of brn FO and dk brn NVL oil]

[4710-4723: No Odor, Rr dull fluor, abund black resid/gilson stn, Rr dk brn stn with scatt sli shows of dk brn FO-NVL oil-deadish oil in chert]

\* Pipe Strap @ 4737': .16 ft short!

[4730-4737: No Odor, No fluor, Rr scatt patches of black resid stn, some barren pores]

7:00 AM, January 30, 2018

[ 4737-4741: No Odor, No fluor, mod am't of dol por with spotty-patchy dk brn stn with mostly sli shows on brk of dk brn FO & NVL oil, some pcs with moderate show, abund dol pcs barren]

[4741-4747: No Odor, No fluor, mod am't of dol por with spotty-patchy brn-dk brn stn with mostly sli shows on brk of dk brn FO & NVL oil, some pcs with moderate show, greater % pcs barren than above]

[4747-4752: No Odor, No fluor, 1-2 pcs per tray w patches of spotty dk stn with trace-sli shows of dk NVL oil to deadish oil on brk, 99% barren]

---

DST #2: 4737-4741 (Mississippi)  
Times: 15-30-30-45  
Initial Open: Wk Blow, built to 1" i.b.  
Final Open: Wk Blow, built to 1" i.b.  
Rec: 90' mud  
IHP: 2369 FHP: 2310  
IFP: 45-51 FFP: 53-63  
ISIP: 1347 FSIP: 1267  
BHT: 116°F

---

DST #3: 4741-4747 (Mississippi)  
Times: 15-30-15-out  
Initial Open: Wk Blow, built to 1/2"  
Final Open: Wk Surf Blow, died in 6 min  
Rec: 15' mud  
IHP: 2370 FHP: 2333  
IFP: 26-29 FFP: 30-32  
ISIP: 1449 FSIP: NA  
BHT: 112°F

---

RTD at 9:30 pm, January 31, 2018!

Mudcheck: CTCH @ 4737' after DST1:  
Vis Wt WL LCM PV YP  
50 9.2 10.4 2 15 15  
Chl Hd pH Solids  
5900 40 10.5 6.1

Mudcheck: TIH @ 4747' after DST3:  
Vis Wt WL LCM PV YP  
46 9.1 16 2 14 17  
Chl Hd pH Solids  
12400 180 8.5 5.0 \* Will Amend Mud System with Pre-mix Add!  
\*Had difficulty raising vis above 50 for remainder of well!

# COPELAND

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

**Invoice**

Page: 1

## Acid & Cement

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

INVOICE NUMBER:  
**C46242-IN**

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

**LEASE: HOLMAN #1**

DATE	ORDER	SALESMAN	ORDER DATE	PURCHASE ORDER	SPECIAL INSTRUCTIONS	
01/29/2018	C46242		01/23/2018		NET 30	
QUANTITY	U/M	ITEM NO./DESCRIPTION		D/C	PRICE	EXTENSION
1.00	FT	SURFACE PIPE-PRICE AS AGREED SET 8 5/8"		0.00	2,999.00	2,999.00
		<i>7/10/43 BCP</i> <i>19397.00001</i> <i>Well file</i> <i>Surface Cement</i>				
<b>REMIT TO:</b> P.O. BOX 438 HAYSVILLE, KS 67060		COP		Net Invoice: 2,999.00		
		FUEL SURCHARGE IS NOT TAXABLE AND IS ADDED TO MILEAGE, PUMP AND OR DELIVERY CHARGES ONLY.		HODCO Sales Tax: 229.42		
<b>RECEIVED BY</b>		<b>NET 30 DAYS</b>		<b>Invoice Total:</b>		<b>3,228.42</b>

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

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



FIELD ORDER N° C 46242

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

DATE 1-23 2018

IS AUTHORIZED BY: Carmen Schmitt  
(NAME OF CUSTOMER)

Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_

To Treat Well As Follows: Lease Holman Well No. #1 Customer Order No. \_\_\_\_\_

Sec. Twp. Range \_\_\_\_\_ County Hodgeman State KS

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

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

THIS ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED \_\_\_\_\_ By \_\_\_\_\_  
Well Owner or Operator Agent

CODE	QUANTITY	DESCRIPTION	UNIT COST	AMOUNT
2	1	Surface Pipe - Price as agreed to set 8 <sup>5</sup> / <sub>8</sub> "		2999 <sup>00</sup>
		Bulk Charge		
		Bulk Truck Miles		
		Process License Fee on _____ Gallons		
		<b>TOTAL BILLING</b>		

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

Copeland Representative Greg C.

Station 6B

Matt Suchy  
Well Owner, Operator or Agent

Remarks \_\_\_\_\_

**NET 30 DAYS**





P. O. Box 466  
Ness City, KS 67560  
Off: 785-798-2300



# Invoice

DATE	INVOICE #
2/1/2018	31226

<b>BILL TO</b>
Carmen Schmitt, Inc. P. O. Box 47 915 Harrison Great Bend, KS 67530-0047

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1	Holman	Hodgeman	WW Drilling Rig ...	Oil	Development	Cement 5 1/2 Lo...	David K.
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				35	Miles	5.00	175.00
578D-L	Pump Charge - Long String				1	Job	1,300.00	1,300.00
402-5	5 1/2" Centralizer				8	Each	70.00	560.00T
409-5	5 1/2" Turbolizer				4	Each	85.00	340.00T
403-5	5 1/2" Cement Basket				3	Each	275.00	825.00T
406-5	5 1/2" Latch Down Plug & Baffle				1	Each	250.00	250.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill				1	Each	325.00	325.00T
325	Standard Cement				75	Sacks	13.00	975.00T
284	Calseal				4	Sack(s)	35.00	140.00T
283	Salt				400	Lb(s)	0.20	80.00T
285	CFR-1				50	Lb(s)	4.50	225.00T
276	Flocele				150	Lb(s)	2.50	375.00T
330	Swift Multi-Density Standard (MIDCON II)				470	Sacks	16.25	7,637.50T
281	Mud Flush				500	Gallon(s)	1.50	750.00T
221	Liquid KCL (Clayfix)				4	Gallon(s)	25.00	100.00T
290	D-Air				5	Gallon(s)	42.00	210.00T
581D	Service Charge Cement				545	Sacks	1.75	953.75
583D	Drayage				954.28	Ton Miles	0.85	811.14
	Subtotal							16,032.39
	Sales Tax Hodgeman County						7.65%	978.63

710/43  
14397.0001  
Well Aile  
Long String Cement

<b>We Appreciate Your Business!</b>	<b>Total</b>	\$17,011.02
-------------------------------------	--------------	-------------



CHARGE TO: Carmen Schmitt Inc.  
 ADDRESS \_\_\_\_\_  
 CITY, STATE, ZIP CODE \_\_\_\_\_

SERVICE LOCATIONS 1. <u>Ness City KS</u>	WELL/PROJECT NO. <u>#1</u>	LEASE <u>Holman</u>	COUNTY/PARISH <u>Hodgeman</u>	STATE <u>KS</u>	CITY <u>Jctmore</u>
2.	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>WW Drilling</u>	RIG NAME/NO. <u>#10</u>	SHIPPED VIA <u>CT</u>	DELIVERED TO <u>Location</u>
3.	WELL TYPE <u>Oil</u>	WELL CATEGORY <u>Development</u>	JOB PURPOSE <u>Cement 5 1/2" Longstring</u>	WELL PERMIT NO.	
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS			

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	U/M	QTY.	U/M
		LOC	ACCT	DF					
575		1			MILEAGE			35	m
578		1			Pump Charge - Longstring			1	j
402		1			Centralizer	5 1/2 in		8	a
409		1			Turbolizer	5 1/2 in		4	l
403		1			Cement Basket	5 1/2 in		3	p
<del>406</del> 406		1			Latch Down Plug + Baffle	5 1/2 in		1	a
407		1			Insert Float Shoe w/ Auto Fill	5 1/2 in		1	a

**LEGAL TERMS:** Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.  
 X Curtis Holman  
 DATE SIGNED 2-1-18 TIME SIGNED \_\_\_\_\_  A.M.  P.M.

**REMIT PAYMENT TO:**  
 SWIFT SERVICES, INC.  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

SURVEY	AGREE	UNDECIDED
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?		
WE UNDERSTOOD AND MET YOUR NEEDS?		
OUR SERVICE WAS PERFORMED WITHOUT DELAY?		
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?		
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND		

**CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES** The customer hereby acknowledges receipt of the materials and services.

SWIFT OPERATOR David Kuchn

APPROVAL \_\_\_\_\_



TICKET CONTINUATION

PO Box 466  
Ness City, KS 67560  
Off: 785-798-2300

CUSTOMER <b>Carmen Schmitt Inc</b>	WELL <b>Holman #1</b>
---------------------------------------	--------------------------

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY	U/M	QTY	U/M
		LOG	ACCT	DF						
325		1				Standard Cement (EA-2)			75	sk
284		1				Calceol	5	%	4	sk
283		1				Salt	10	%	400	lb
285		1				CFR-1	1/2	%	50	lb
276		1				Flocce	1/4	lb	150	lb
330		1				SMD Cement			470	sk
281		1				Mud Flush			500	ge
221		1				Liquid HCL			4	ge
290		1				D-Air			5	ge
581		1				SERVICE CHARGE				CUBIC FEET
583		1				MILEAGE CHARGE				
						TOTAL WEIGHT	54530			
						LOADED MILES	35			
						TON MILES				954.28

COR



JOB LOG

SWIFT Services, Inc.

DATE 2-1-18 PAGE NO. 1

CUSTOMER Carmen Schmitt Inc. WELL NO. #1 LEASE Holman JOB TYPE 5 1/2" Longstring TICKET NO. # 31226

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1330							on location 5 1/2" 14"
								RTD- 4840' LTD- N/A TP- 4842' SJ- "1 42.40 cent- #3*5*7*9*11*13*15*17*19*79*80 Basket- #8*32*78
	1500							Start 5 1/2" 14" casing in well
	1640							Drop ball Circulate
	1750	6 1/2	12		✓		350	Pump 500 gal Mud Flush
		6 1/2	20		✓		350	Pump 20 bbl KCL Flush
			16					Plug RH *30 sks*
	1810	6 1/2	243		✓		200	mix 440 sks SMD 1/4" flo @ 11.2 ppg
		4 1/2	18		✓		100	mix 75 sks EA-2 1/4" flo @ 15.5 ppg
								Wash out Pump + Lines Release Latch Down Plug
	1915	6 1/2	0		✓		100	Start Displacement - KCL in 1st tank
		6 1/2	40		✓		300	Lift Pressure
		6 1/2	104		✓		800	Circulate cement to surface - 25 sks
		6 1/2	115		✓		1200	max Lift Pressure
	1935	6 1/2	117.1		✓		2000	Land Latch Down Plug
								Release Pressure * Plug Hold *
								wash up truck
	2000							Job Complete
								Thanks You Dave Preston Kirby Russ