

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
--	---

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
---	---	------------------------------------

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:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	Carmen Schmitt, Inc.
Well Name	HORACEK A 1
Doc ID	1358165

Tops

Name	Top	Datum
Anhydrite	1426	890
Heebner Sh.	3921	-1605
Brown Lime	3994	-1678
Lansing	4008	-1692
Stark Sh	4232	-1916
B/KC	4327	-2004
Marmaton	4327	-2011
Pawnee	4434	-2118
Ft.Scott	4502	-2186
Cherokee Sh.	4525	-2209
Mississippian	4567	-2251

Form	ACO1 - Well Completion
Operator	Carmen Schmitt, Inc.
Well Name	HORACEK A 1
Doc ID	1358165

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
0	Open Hole	250gal of 15%MCA	4568-4575



## Summary of Changes

Lease Name and Number: HORACEK A 1

API/Permit #: 15-083-21931-00-00

Doc ID: 1358165

Correction Number: 1

Approved By: Karen Ritter

Field Name	Previous Value	New Value
Approved Date	03/28/2017	06/21/2017
Date of First or Resumed Production or SWD or Enhr		3/24/2017
Perf_Depth_1		4568-4575
Perf_Material_1		250gal of 15%MCA
Perf_Record_1		Open Hole
Perf_Shots_1		0
Producing Method Pumping	No	Yes
Production Interval #1		4568-4575
Save Link	<a href="http://.../kcc/detail/operatorEditDetail.cfm?docID=1349682">../kcc/detail/operatorEditDetail.cfm?docID=1349682</a>	<a href="http://.../kcc/detail/operatorEditDetail.cfm?docID=1358165">../kcc/detail/operatorEditDetail.cfm?docID=1358165</a>



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1349682  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed

Form must be Signed

All blanks must be Filled

# CONFIDENTIAL 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       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- 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 ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
-----------------------------------	-----------------	---

API No. 15 - \_\_\_\_\_

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
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

# COPELAND

## Acid & Cement

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

Invoice

Page: 1

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

INVOICE NUMBER:  
**C44198-IN**

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

**LEASE: HORACEK A-1**

DATE	ORDER	SALESMAN	ORDER DATE	PURCHASE ORDER	SPECIAL INSTRUCTIONS	
02/22/2017	C44198		02/15/2017		NET 30	
QUANTITY	U/M	ITEM NO./DESCRIPTION		D/C	PRICE	EXTENSION
1.00	EA	CEMENT PUMP CHARGE		0.00	650.00	650.00
1.00	EA	CEMENT JOB - SURFACE PIPE (PRICE AS AGREED)		0.00	2,349.00	2,349.00
<p><i>710/43 BCP</i>  <i>19126.0001</i>  <i>Well Rite</i>  <i>Surface Cement</i></p>						
<b>REMIT TO:</b> P.O. BOX 438 HAYSVILLE, KS 67060		COP		Net Invoice:		2,999.00
RECEIVED BY _____		FUEL SURCHARGE IS NOT TAXABLE AND IS ADDED TO MILEAGE, PUMP AND OR DELIVERY CHARGES ONLY.		HODCO Sales Tax:		49.73
		<b>NET 30 DAYS</b>		Invoice Total:		<u>3,048.73</u>

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

Copeland Acid & Cement is a subsidiary of Gressel Oil Field Service

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





FIELD ORDER N<sup>o</sup> C 44198

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

DATE 2-15 20 17

IS AUTHORIZED BY: Carmen Schmitt  
(NAME OF CUSTOMER)  
Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_  
To Treat Well As Follows: Lease Horacek Well No. A-1 Customer Order No. \_\_\_\_\_  
Sec. Twp. Range 13-233-21W County Hodgeman State KS

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

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

THIS ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED

Well Owner or Operator \_\_\_\_\_

By \_\_\_\_\_ Agent

CODE	QUANTITY	DESCRIPTION	UNIT COST	AMOUNT
		<u>Price as agreed - Surface Pipe</u>		<u>2999<sup>00</sup></u>
		Bulk Charge		
		Bulk Truck Miles		
		Process License Fee on _____ Gallons		
		<b>TOTAL BILLING</b>		<u>2999<sup>00</sup></u>

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

Copeland Representative Greg L.

Station GB

Carmen S.  
Well Owner, Operator or Agent

Remarks \_\_\_\_\_

**NET 30 DAYS**







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



# Invoice

DATE	INVOICE #
2/22/2017	30211

BILL TO
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	#A-1	Horacek	Hodgeman	Murfin Drilling Ri...	Oil	Development 5	5 1/2 Longstring	Jason

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	60	Miles	5.00	300.00
579D	Pump Charge - Two-Stage & Top To Bottom LongString	1	Job	1,700.00	1,700.00
403-5	5 1/2" Cement Basket	3	Each	250.00	750.00T
405-5	5 1/2" Formation Packer Shoe	1	Each	1,300.00	1,300.00T
406-5	5 1/2" Latch Down Plug & Baffle	1	Each	225.00	225.00T
409-5	5 1/2" Turbolizer	12	Each	75.00	900.00T
281	Mud Flush	500	Gallon(s)	1.25	625.00T
221	Liquid KCL (Clayfix)	4	Gallon(s)	25.00	100.00T
276	Flocele	150	Lb(s)	2.25	337.50T
290	D-Air	6	Gallon(s)	42.00	252.00T
330	Swift Multi-Density Standard (MIDCON II)	600	Sacks	15.75	9,450.00T
581D	Service Charge Cement	600	Sacks	1.50	900.00
583D	Drayage	1,791	Ton Miles	0.75	1,343.25
	Subtotal				18,182.75
	Sales Tax Hodgeman County			7.65%	1,066.37

7/10/43  
19126.0001  
Well Rite  
Long String Cement

<b>We Appreciate Your Business!</b>	<b>Total</b>	\$19,249.12
-------------------------------------	--------------	-------------



CHARGE TO: **CARMEN SCHMITT**

ADDRESS

CITY, STATE, ZIP CODE

1. SERVICE LOCATIONS <b>NESS CITY, KS</b>	WELL/PROJECT NO.	LEASE <b>HORACEK A #1</b>	COUNTY/PARISH <b>HODGEMAN</b>	STATE <b>KS.</b>	CITY <b>BURDETT, KS.</b>
2.	TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <b>MURFIN DRILLING #116</b>	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO
3.	WELL TYPE <b>OIL</b>	WELL CATEGORY <b>DEVELOPMENT</b>	JOB PURPOSE <b>S 2 LONGSTRING</b>	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					MILEAGE #115	60	mi		
579					Pump CHARGE	1	JOB		
403					CEMENT BASKETS	3	EA.		
405					FORMATION PACKER SHOE	1	EA.		
406					LATCH DOWN PLUG & BAFFLE	1	EA.		
409					TURBOLIZER	12	EA.		
281					MUD FLUSH	500	gal		
221					KCL	4	barrels		

**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 *Carmen Schmitt*  
DATE SIGNED **22 FEB 17** TIME SIGNED **1130**  A.M.  P.M.

**REMIT PAYMENT TO:**

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

SURVEY	AGREE	UN-DECIDED	A
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 checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	

CUSTOMER DID NOT WISH TO RESPOND

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

SWIFT OPERATOR: *J. E. [Signature]* APPROVAL



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

TICKET CONTINUATION

CUSTOMER: CARMEN SCAMITT  
 WELL: HORACEK A #1

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY	U/M	QTY	U/M
		LOC	ACCT	DF						
276						FLOCELE	150	lbs		
290						D-AIR	600	sq		
330						SMD CEMENT	600	sq		
581						SERVICE CHARGE			CUBIC FEET	600 sq
583						MILEAGE CHARGE			TON MILES	1791.0
						TOTAL WEIGHT	59700		LOADED MILES	60

CON

JOB LOG

SWIFT Services, Inc.

DATE 22 FEB 17 PAGE NO.

CUSTOMER CARMEN SCHMITT

WELL NO.

LEASE HORACEK A #1

JOB TYPE 5 1/2 LONGSTRING

TICKET NO. 30211

CHART NO.	TIME	RATE (BPM)	VOLUME (EBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0530							ON LOCATION
								START PIPE 5 1/2 - 15.5 #
								RTD @ 4575 SET @ 4567
								SHOJET 42.52
								CENTRALIZERS 4, 7, 10, 12, 14, 16, 18, 20, 22, 24, 73, 76
								BASKETS 3, 55, 73
	0835						2000	SET PACKER SHOE - CIRCULATE.
	0935	6	12				300	Pump 500 gal MUD FLUSH
		6	20				300	Pump 20 BBL KCL SPACER
	0941		7					PLUG RH - 30sx
	0944	6	138					MIX 250sx @ 11.2ppg.
		6	48					MIX 140sx @ 13.5ppg.
		4	40					MIX 90sx @ 12.5ppg.
		4	24					MIX 90sx @ 14.5ppg.
	1031							WASH OUT Pump & LINES.
	1034	6						START DISPLACING PLUG.
	1052	Ø	108				1700	PLUG DOWN - LATCH PLUG IN.
								CIRCULATE 10sx IN CELLAR
	1055							RELEASE PSI - DRY
								WASH TRUCK
	1130							JOB COMPLETE
								THANKS #115
								JASON DAVE PRESTON ISAAC



## DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt**

PO Box 47  
Great Bend, KS 67530

ATTN: Brad Rine

### **Horacek A #1**

#### **13-23S-21W Hodgeman,KS**

Start Date: 2017.02.20 @ 16:18:15

End Date: 2017.02.20 @ 18:23:00

Job Ticket #: 63562                      DST #: 1

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

Printed: 2017.02.21 @ 16:36:55





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

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

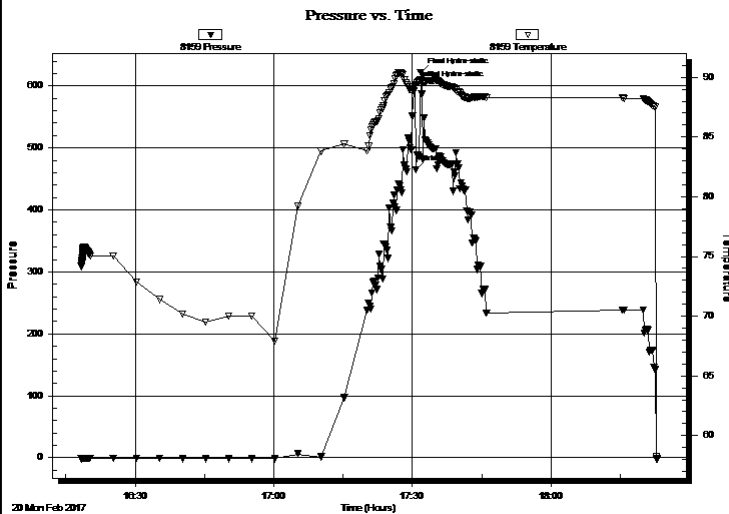
**13-23S-21W Hodgeman,KS**  
**Horacek A #1**  
Job Ticket: 63562      **DST#: 1**  
Test Start: 2017.02.20 @ 16:18:15

## GENERAL INFORMATION:

Formation: **Mississippi**  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened: 00:00:00  
Time Test Ended: 18:23:00  
Interval: **4549.00 ft (KB) To 4573.00 ft (KB) (TVD)**  
Total Depth: 4573.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches      Hole Condition: Good  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Leal Cason  
Unit No: 74  
Reference Elevations: 2316.00 ft (KB)  
2309.00 ft (CF)  
KB to GR/CF: 7.00 ft

**Serial #: 8159      Inside**  
Press@RunDepth:      psig @ 4550.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2017.02.20      End Date: 2017.02.20      Last Calib.: 2017.02.20  
Start Time: 16:18:16      End Time: 18:23:00      Time On Btm: 2017.02.20 @ 17:30:30  
Time Off Btm: 2017.02.20 @ 17:31:45

**TEST COMMENT:** Tool Stacked Out Approximately 1050 feet in the Hole. Unable To Break Through, Pulled Test



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	601.35	89.37	Initial Hydro-static
1	465.32	89.40	Bridge
2	621.87	89.77	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)

## Gas Rates

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



**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

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

**13-23S-21W Hodgeman, KS**

**Horacek A #1**

Job Ticket: 63562

**DST#: 1**

Test Start: 2017.02.20 @ 16:18:15

### GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No      Whipstock:                                 ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 18:23:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 74

Interval: **4549.00 ft (KB) To 4573.00 ft (KB) (TVD)**

Total Depth: 4573.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches

Hole Condition: Good

Reference Elevations: 2316.00 ft (KB)  
 2309.00 ft (CF)

KB to GR/CF: 7.00 ft

**Serial #: 6806**

**Outside**

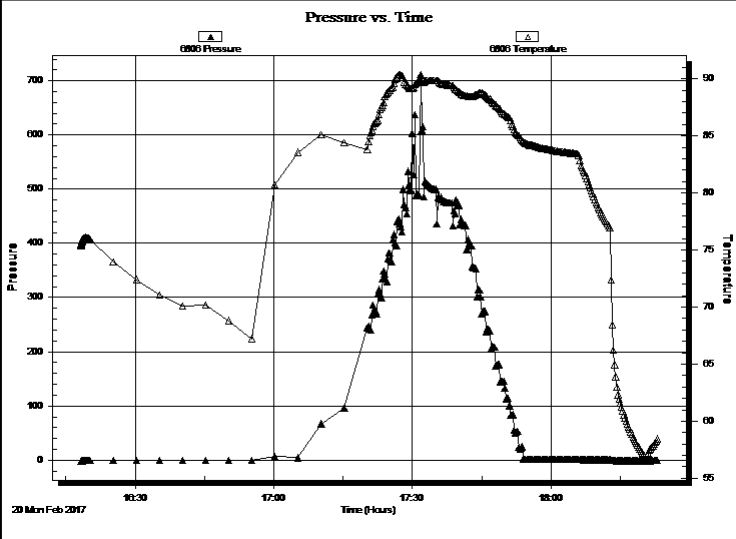
Press@RunDepth:                                 psig @ 4550.00 ft (KB)      Capacity: 8000.00 psig

Start Date: 2017.02.20      End Date: 2017.02.20      Last Calib.: 2017.02.20

Start Time: 16:18:16      End Time: 18:23:00      Time On Btm:

Time Off Btm:

**TEST COMMENT:** Tool Stacked Out Approximately 1050 feet in the Hole. Unable To Break Through, Pulled Test



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

Recovery		
Length (ft)	Description	Volume (bbl)

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

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

**13-23S-21W Hodgeman,KS**  
**Horacek A #1**  
Job Ticket: 63562      **DST#: 1**  
Test Start: 2017.02.20 @ 16:18:15

**Tool Information**

Drill Pipe:	Length: 4402.00 ft	Diameter: 3.80 inches	Volume: 61.75 bbl	Tool Weight:	2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	lb
Drill Collar:	Length: 153.00 ft	Diameter: 2.25 inches	Volume: 0.75 bbl	Weight to Pull Loose:	lb
			<u>Total Volume: 62.50 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	lb
Depth to Top Packer:	4549.00 ft			Final	lb
Depth to Bottom Packer:	ft				
Interval between Packers:	24.00 ft				
Tool Length:	43.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Shut In Tool	5.00			4535.00	
Hydraulic tool	5.00			4540.00	
Packer	5.00			4545.00	19.00      Bottom Of Top Packer
Packer	4.00			4549.00	
Stubb	1.00			4550.00	
Recorder	0.00	8159	Inside	4550.00	
Recorder	0.00	6806	Outside	4550.00	
Perforations	20.00			4570.00	
Bullnose	3.00			4573.00	24.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>43.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

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

**13-23S-21W Hodgeman,KS**  
**Horacek A #1**  
Job Ticket: 63562      **DST#: 1**  
Test Start: 2017.02.20 @ 16:18:15

### Mud and Cushion Information

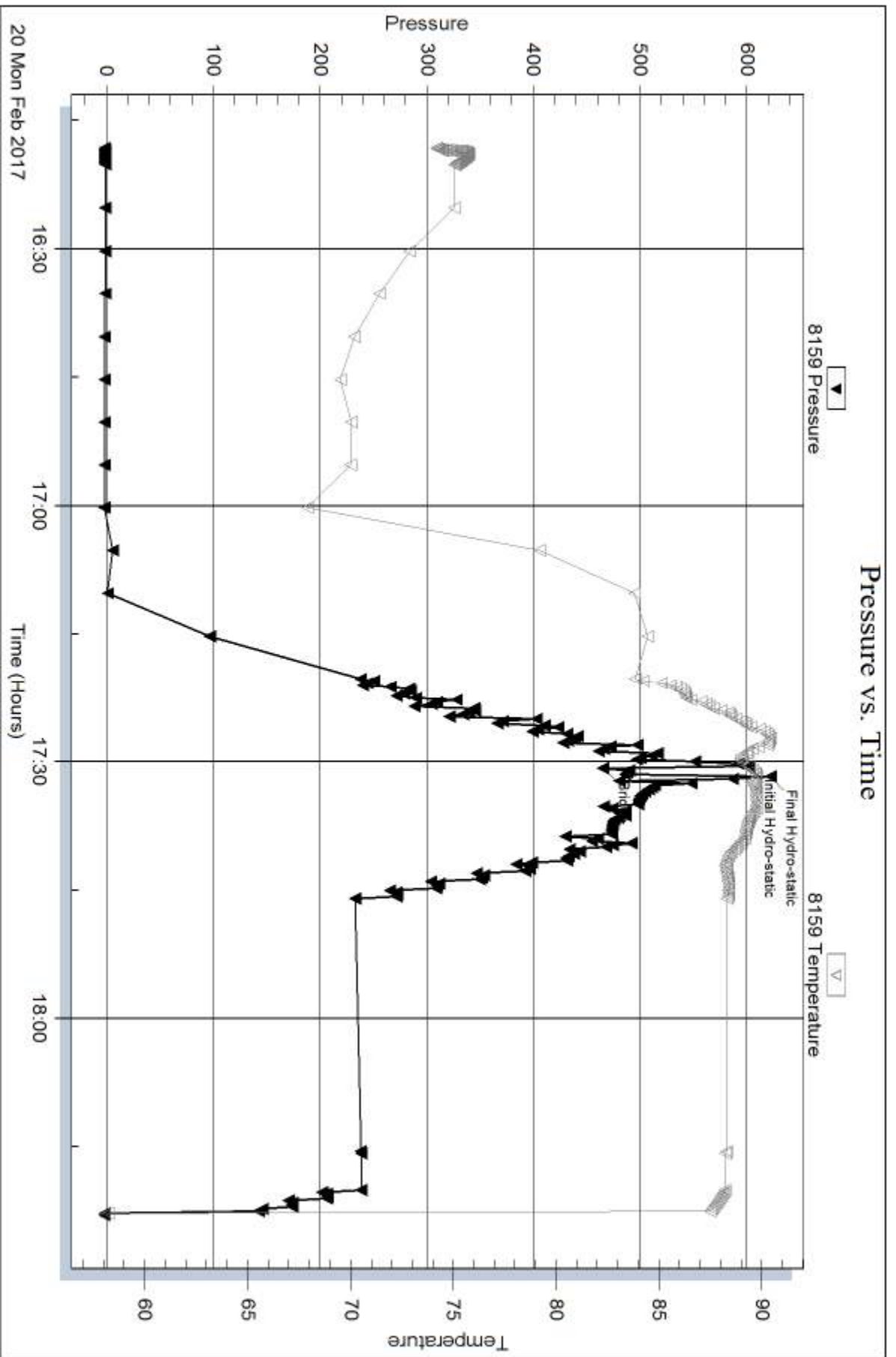
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3350.00 ppm			
Filter Cake: 0.02 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl

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

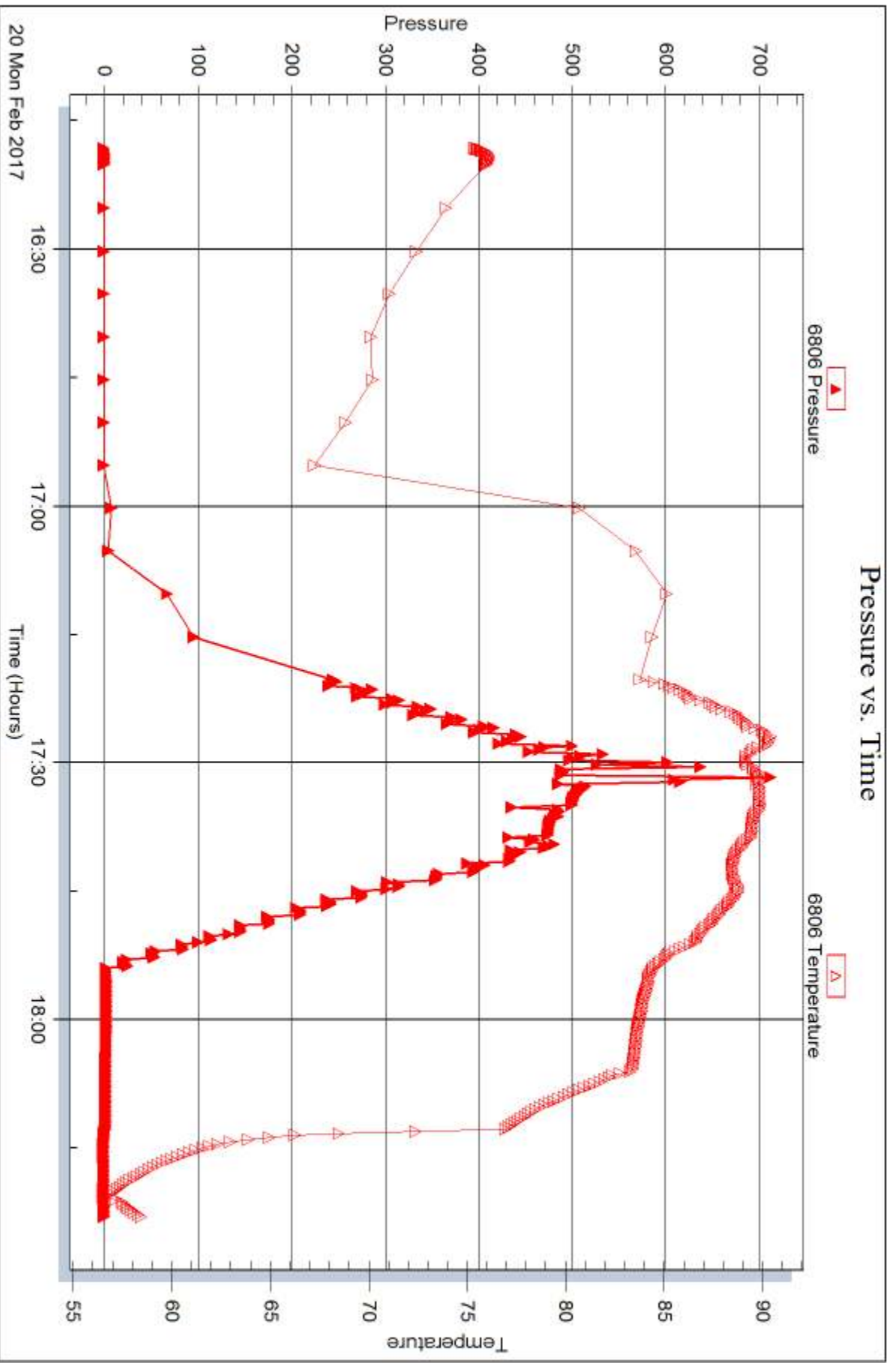


Serial #: 6806

Outside Carmen Schnitt

Horacek A #1

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 63562

Printed: 2017.02.21 @ 16:36:58



## DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt**

PO Box 47  
Great Bend, KS 67530

ATTN: Brad Rine

### **Horacek A #1**

#### **13-23S-21W Hodgeman,KS**

Start Date: 2017.02.21 @ 01:53:53

End Date: 2017.02.21 @ 10:39:42

Job Ticket #: 63563                      DST #: 2

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

Printed: 2017.02.21 @ 16:23:05



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

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

**13-23S-21W Hodgeman,KS**  
**Horacek A #1**  
Job Ticket: 63563      **DST#: 2**  
Test Start: 2017.02.21 @ 01:53:53

## GENERAL INFORMATION:

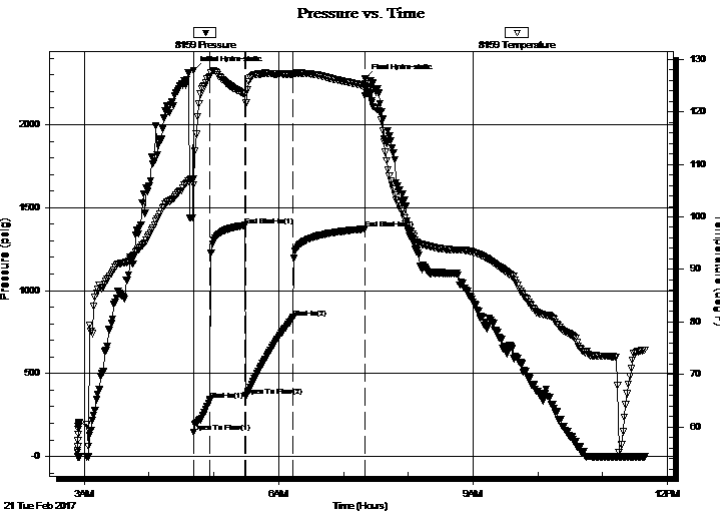
Formation: **Mississippi**  
Deviated: No    Whipstock:                      ft (KB)      Test Type: Conventional Bottom Hole (Reset)  
Time Tool Opened: 03:41:28      Tester: Leal Cason  
Time Test Ended: 10:39:42      Unit No: 74  
**Interval: 4551.00 ft (KB) To 4575.00 ft (KB) (TVD)**      Reference Elevations: 2316.00 ft (KB)  
Total Depth: 4573.00 ft (KB) (TVD)      2309.00 ft (CF)  
Hole Diameter: 7.88 inches    Hole Condition: Good      KB to GR/CF: 7.00 ft

## Serial #: 8159

Inside

Press@RunDepth: 837.36 psig @ 4550.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2017.02.21      End Date: 2017.02.21      Last Calib.: 2017.02.21  
Start Time: 02:53:54      End Time: 11:39:42      Time On Btm: 2017.02.21 @ 04:41:13  
Time Off Btm: 2017.02.21 @ 07:20:13

**TEST COMMENT:** IF: Strong Blow , BOB in 90 seconds  
IS: Blow Back Built to BOB in 6 minutes  
FF: Strong Blow , BOB in 90 seconds  
FS: Blow Back Built to BOB in 9 minutes, GTS in 9 minutes



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2326.87	107.28	Initial Hydro-static
1	147.24	106.12	Open To Flow (1)
16	341.96	126.81	Shut-In(1)
48	1392.87	123.34	End Shut-In(1)
49	360.75	121.64	Open To Flow (2)
92	837.36	127.11	Shut-In(2)
159	1370.98	124.98	End Shut-In(2)
159	2278.53	124.66	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	GTS	0.00
184.00	GSY MWCO 30%G 10%W 20%M 40%O	1.19
63.00	GSY MWCO 40%G 5%M 5%W 50%O	0.88
2021.00	GCO 20%G 80%O	28.35

\* 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  
PO Box 47  
Great Bend, KS 67530  
ATTN: Brad Rine

**13-23S-21W Hodgeman,KS**  
**Horacek A #1**  
Job Ticket: 63563      **DST#: 2**  
Test Start: 2017.02.21 @ 01:53:53

**Tool Information**

Drill Pipe:	Length: 4402.00 ft	Diameter: 3.80 inches	Volume: 61.75 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 153.00 ft	Diameter: 2.25 inches	Volume: 0.75 bbl	Weight to Pull Loose: 65000.00 lb
		Total Volume: 62.50 bbl		Tool Chased ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4549.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	50.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Shut In Tool	5.00			4528.00	
Hydraulic tool	5.00			4533.00	
Jars	5.00			4538.00	
Safety Joint	2.00			4540.00	
Packer - Shale	5.00			4545.00	
Packer	4.00			4549.00	26.00      Bottom Of Top Packer
Stubb	1.00			4550.00	
Recorder	0.00	8159	Inside	4550.00	
Recorder	0.00	6806	Outside	4550.00	
Perforations	20.00			4570.00	
Bullnose	3.00			4573.00	24.00      Anchor Tool

**Total Tool Length: 50.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

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

**13-23S-21W Hodgeman,KS**  
**Horacek A #1**  
Job Ticket: 63563      **DST#: 2**  
Test Start: 2017.02.21 @ 01:53:53

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 37.4 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.76 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 3350.00 ppm		
Filter Cake: 0.02 inches		

## Recovery Information

Recovery Table

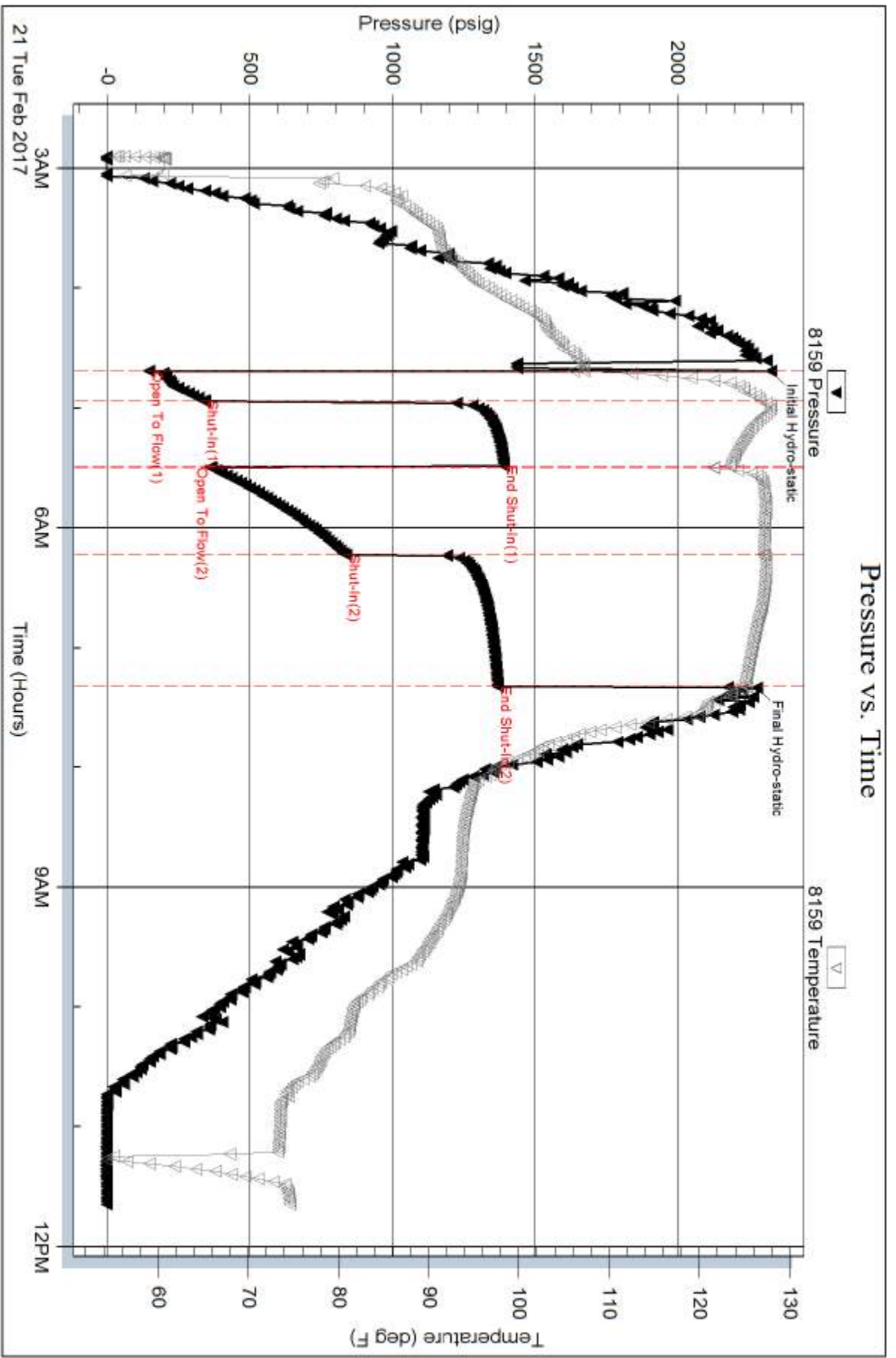
Length ft	Description	Volume bbl
0.00	GTS	0.000
184.00	GSY MWCO 30%G 10%W 20%M 40%O	1.187
63.00	GSY MWCO 40%G 5%M 5%W 50%O	0.884
2021.00	GCO 20%G 80%O	28.349

Total Length: 2268.00 ft      Total Volume: 30.420 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: Gravity w as 37.2 @ 58 degrees

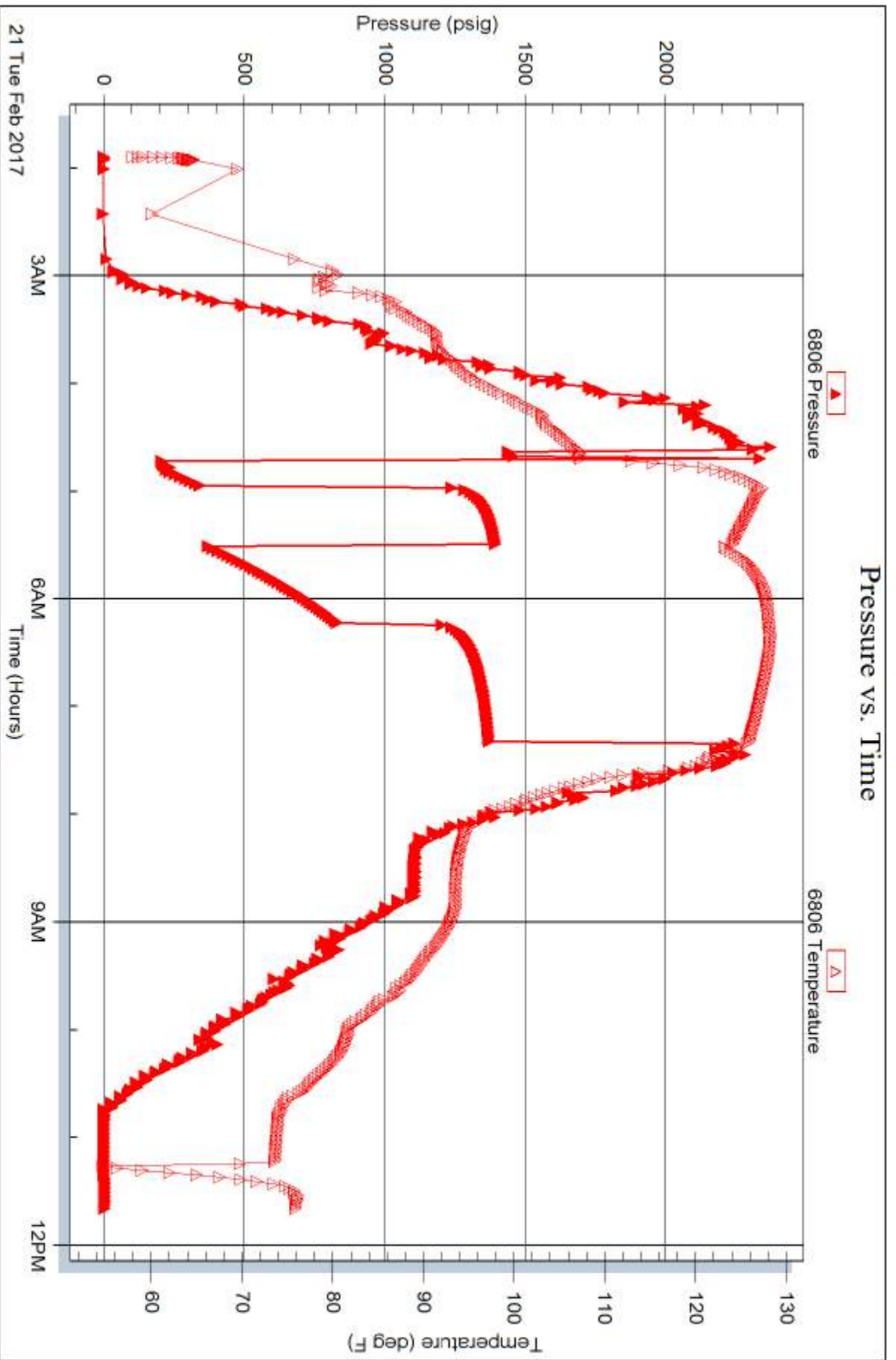


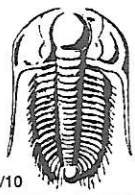
Serial #: 6806

Outside Carmen Schnitt

Horacek A #1

DST Test Number: 2





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **63562**

Well Name & No. Haracek A 1 Test No. 1 Date 02/20/17  
 Company Carmen Schmitt Elevation 2316 KB 2309 GL  
 Address PO Box 47 Great Bend, KS 67530  
 Co. Rep / Geo. Brad Rine Rig Murfin 16  
 Location: Sec. 13 Twp. 23S Rge. 21W Co. Hodgeman State KS

Interval Tested 4549 - 4573 Zone Tested Mississippi  
 Anchor Length 24 Drill Pipe Run N/A Mud Wt. 9.4  
 Top Packer Depth 4544 Drill Collars Run 153 Vis 50  
 Bottom Packer Depth 4549 Wt. Pipe Run 0 WL 8.8  
 Total Depth 4573 Chlorides 3350 ppm System LCM 2  
 Blow Description Tool Stacked Out approximately 1050' in the Hole, unable TO BREAK through, pulled Tool

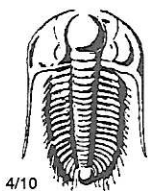
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total N/A BHT N/A Gravity N/A API RW N/A @ N/A °F Chlorides N/A ppm  
 (A) Initial Hydrostatic 601  Test 950 T-On Location 15:15  
 (B) First Initial Flow N/A  Jars \_\_\_\_\_ T-Started 16:18  
 (C) First Final Flow N/A  Safety Joint \_\_\_\_\_ T-Open N/A  
 (D) Initial Shut-In N/A  Circ Sub \_\_\_\_\_ T-Pulled 17:30  
 (E) Second Initial Flow N/A  Hourly Standby \_\_\_\_\_ T-Out 18:23  
 (F) Second Final Flow N/A  Mileage 160 120 Comments \_\_\_\_\_  
 (G) Final Shut-In N/A  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 621  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1070  
 Accessibility \_\_\_\_\_ MP/DST Disc't   
 Sub Total 1070

Approved By Brad Rine Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **63563**

Well Name & No. Haracek A 1 Test No. 2 Date 02/21/17  
 Company Carmen Schmitt Elevation 2316 KB 2309 GL  
 Address PO Box 47 Great Bend, KS 67530  
 Co. Rep / Geo. Brad Rine Rig Murfin 16  
 Location: Sec. 13 Twp. 23S Rge. 21W Co. Hodgeman State KS

Interval Tested ~~4551~~ - 4575 Zone Tested Mississippi  
 Anchor Length 24 Drill Pipe Run 4402 Mud Wt. 9.4  
 Top Packer Depth 4544 Drill Collars Run 153 Vis 50  
 Bottom Packer Depth 4549 Wt. Pipe Run 0 WL 8.8  
 Total Depth 4573 Chlorides 3350 ppm System LCM 2

Blow Description IF: Strong Blow, BOB in 90 seconds  
ISI: Blow Back built to BOB in 6 minutes  
FF: Strong Blow, BOB in 90 seconds  
FSI: Blow Back built to BOB in 9 minutes, GTS in 9 minutes

Rec	Feet of	%gas	%oil	%water	%mud
<u>2287</u>	<u>GTP</u>				
<u>2021</u>	<u>GCO</u>	<u>20</u>	<u>80</u>		
<u>63</u>	<u>GSMWCO</u>	<u>40</u>	<u>50</u>	<u>5</u>	<u>5</u>
<u>184</u>	<u>GSMWCO</u>	<u>30</u>	<u>40</u>	<u>10</u>	<u>20</u>

Rec Total 2268 BHT 125 Gravity 37.4 API RW NIC @ NIC °F Chlorides NIC ppm

(A) Initial Hydrostatic <u>2327</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>00:45</u>
(B) First Initial Flow <u>147</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>01:53</u>
(C) First Final Flow <u>342</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>04:41</u>
(D) Initial Shut-In <u>1393</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>07:19</u>
(E) Second Initial Flow <u>361</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>11:39</u>
(F) Second Final Flow <u>837</u>	<input checked="" type="checkbox"/> Mileage <u>160</u> <u>120</u>	Comments
(G) Final Shut-In <u><del>1371</del> 1371</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2278</u>	<input type="checkbox"/> Straddle	
	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>15</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Flow <u>45</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
Final Shut-In <u>960</u>	<input type="checkbox"/> Accessibility	Total <u>1845</u>
	Sub Total <u>1845</u>	MP/DST Disc't <input checked="" type="checkbox"/>

Approved By Brad Rine Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

**M. Bradford Rine**  
**Consulting Geologist**

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

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

Well Name: Horacek "A" #1 - Carmen Schmitt, Inc.  
API: 15-083-21931-00-00  
Location: SE-NE-SW-NW, Section 13-23S-21W  
License Number: KCC # 6569  
Spud Date: February 14, 2017  
Surface Coordinates: 1820' FNL & 1000' FWL,  
of Section  
Bottom Hole Vertical Wellbore  
Coordinates:  
Ground Elevation (ft): 2311 Ft. K.B. Elevation (ft): 2316 Ft.  
Logged Interval (ft): 3800 Ft. To: 4575 Ft. Total Depth (ft): RTD 4575 Ft. LTD 4576 Ft.  
Formation: Mississippian at Total Depth  
Type of Drilling Fluid: Chemical

Region: Hodgeman Co., KS  
Drilling Completed: February 21, 2017  
Results: Prod Csg Set  
Field: Wildcat

Printed by MUD.LOG 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 completion, in the Horacek "A" #1, on February 21, 2017.

Respectfully submitted,  
M. Bradford Rine, geologist



**Carmen Schmitt, Inc.**  
**"Horacek "A" #1"**  
**Section 13-23S-21W, Hodgeman County, Kansas**



**Drilling Information**

**Rig: Murfin Drlg #16**  
**Pump: Emsco D375 6 x 14**  
**Drawworks: Cardwell Royale**  
**Collars: 543' various diameters near 6-1/4 x 2-1/4**  
**Drillpipe: 4-1/2" 16.6# XH**  
**Toolpusher: Andrew Dinkel**

**Mud: Mudco (Justin Whiting)**  
**Gas Detector: None**  
**Drill Stem Tests: Trilobite (Leal Cason)**  
**Logs: Pioneer (D. Schmidt)**  
**Water: Farm Pond in Section**  
**Company Representatives:**  
**Office: Carmen Schmitt**  
**Field: Curtis Hitchmann**

## Daily Drilling Status

**Date:**           **Operations/Depth/Comments**  
 02-13-17   **MIRT, RU @ 0'**  
 02-14-17   **Spud @ 0'**  
 02-15-17   **Waiting on Cement @ 220'**  
 02-16-17   **Drilling @ 1725'**  
 02-17-17   **Drilling @ 2670'**  
 02-18-17   **Drilling @ 3470'**  
 02-19-17   **Drilling @ 4145'**  
 02-20-17   **Drilling @ 4495'**  
 02-21-17   **On Bottom with DST 2 @ 4575'**  
 02-22-17   **Running Casing @ 4575' RTD, LTD 4576'**

* Formation Tops, provided by Operator!	Results: Oil			(Well A)	D & A	(Well B)	D & A		
	Carmen Schmitt, Inc.			Sunray DX Oil		Rex & Morris Drlg			
	Horacek "A" #1			Gertrude Burr #1		Tasset #1			
	1820'FNL & 1000'FWL			C-NE-SW		C-NE-NW			
	Sec. 13-23S-21W			Sec. 11-23S-21W		Sec. 24-23S-21W			
	2316 Ft. KB			2343 Ft. KB		2356 Ft. KB		Well A	Well B
Formations	Sample	E-Log	Datum	E-Log	Datum	E-Log	Datum	Comparison(s)	
Anhydrite	1426	1426	890	1457	886	1477	879	4	11
B/Anhydrite	1449	1447	869	1480	863	1500	856	6	13
Heebner Sh.	3920	3921	-1605	3961	-1618	4006	-1650	13	45
Brown Lime	3994	3994	-1678	4041	-1698	4092	-1736	20	58
Lansing	4008	4008	-1692	4052	-1709	4102	-1746	17	54
Stark Sh	4233	4232	-1916	4290	-1947	4338	-1982	31	66
B/Kansas City	4321	4320	-2004	4373	-2030	4428	-2072	26	68
Marmaton	4328	4327	-2011	4379	-2036	4435	-2079	25	68
Pawnee	4434	4434	-2118	4490	-2147	4542	-2186	29	68
Ft. Scott	4502	4502	-2186	4559	-2216	4610	-2254	30	68
Cherokee Sh.	4527	4525	-2209	4583	-2240	4632	-2276	31	67
Mississippian	4568	4567	-2251	4635	-2292	4665	-2309	41	58
Total Depth	4575	4576	-2260	4723	-2380	4773	-2417	120	157

## Casing Record, Bit Record, Deviation Surveys

### CASING:

Conductor: None

Surface: Set 8 5/8-23# @ 218'. (Copeland) Cement w/ 200sx 60/40 Poz, 3%cc, 2%gel. Cement did circulate. Plug Down 10:30PM, February 14, 2017.

Production: Ran 109 jts, 5-1/2" 15.5# new casing. Tagged bottom @ 4576' and picked up 7.5 ft off bottom, plus .5 ft to set packer @ 4568 ft. (Swift) Pump 500 gal mud flush followed by 20 bbl KCL flush. Plug rat hole with 30 sx. Cement with 250 sx 11.2 ppg, 140 sx 13.5 ppg, 90 sx 12.5 ppg, 90 sx 14.2 ppg. 108 bbl KCL water flush. Cement did circulate, approx 10 bbl to pit.

### BITS:

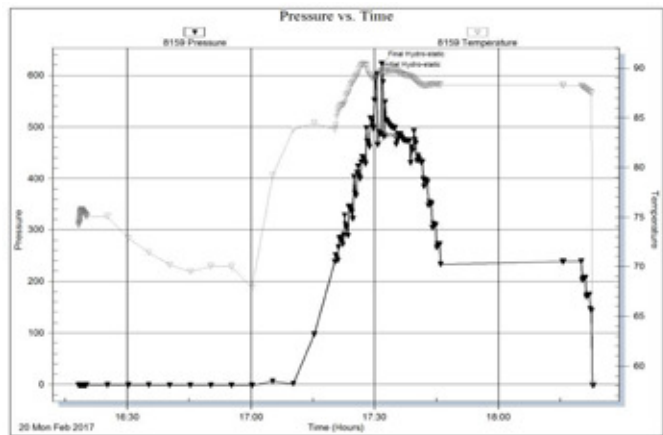
No.	Size	Make	Model	Depth In	Depth Out	Hours
1	12-1/4	Varel	ERT RR 0	220	220	4
2	7-7/8	HTC	GX20C	220	4575	105

### DEVIATION SURVEYS:

Deviation:	Depth:	Deviation:	Depth:
0.25*	220'	0.75*	4573'
1.00*	1747'		

**DST #1: 4549-4573 (Mississippi)**

**\*Misrun! Hit bridge at 1050 ft,  
could not penetrate.**



**DST #2: 4551-4575 (Mississippi)**

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

**Initial Open: Strong Blow b.o.b. 90 sec.**

**Return blow b.o.b. 6 min.**

**Final Open: Strong Blow b.o.b. 90 sec.**

**Return blow b.o.b. 9 min, gts 9 min**

**Rec: 2268' Total Fluid, 2287' gas in pipe**

**2021' GCO: 20%g 80%o 0%w 0%m**

**63' GWMCO: 40%g 50%o 05%w 05%m**

**184' GWMCO: 30%g 40%o 10%w 20%m**

**Gravity Oil: 37.4\***

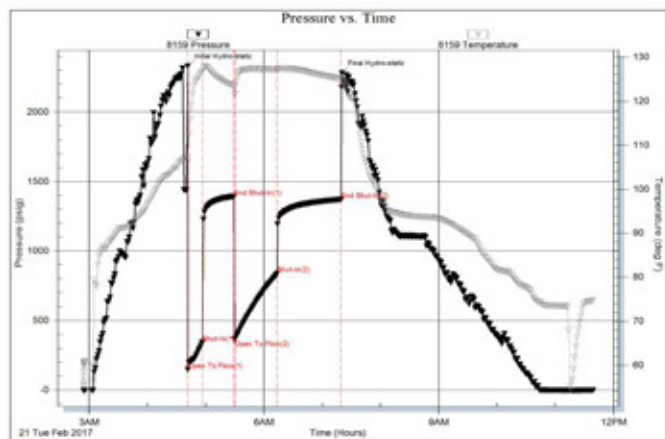
**Wtr Chl: insufficient volume to calc**

**IHP: 2327 FHP: 2278**

**IFP: 147-342 FFP: 361-837**

**ISIP: 1393 FSIP: 1371**

**BHT: 125°F**



### Rock Types

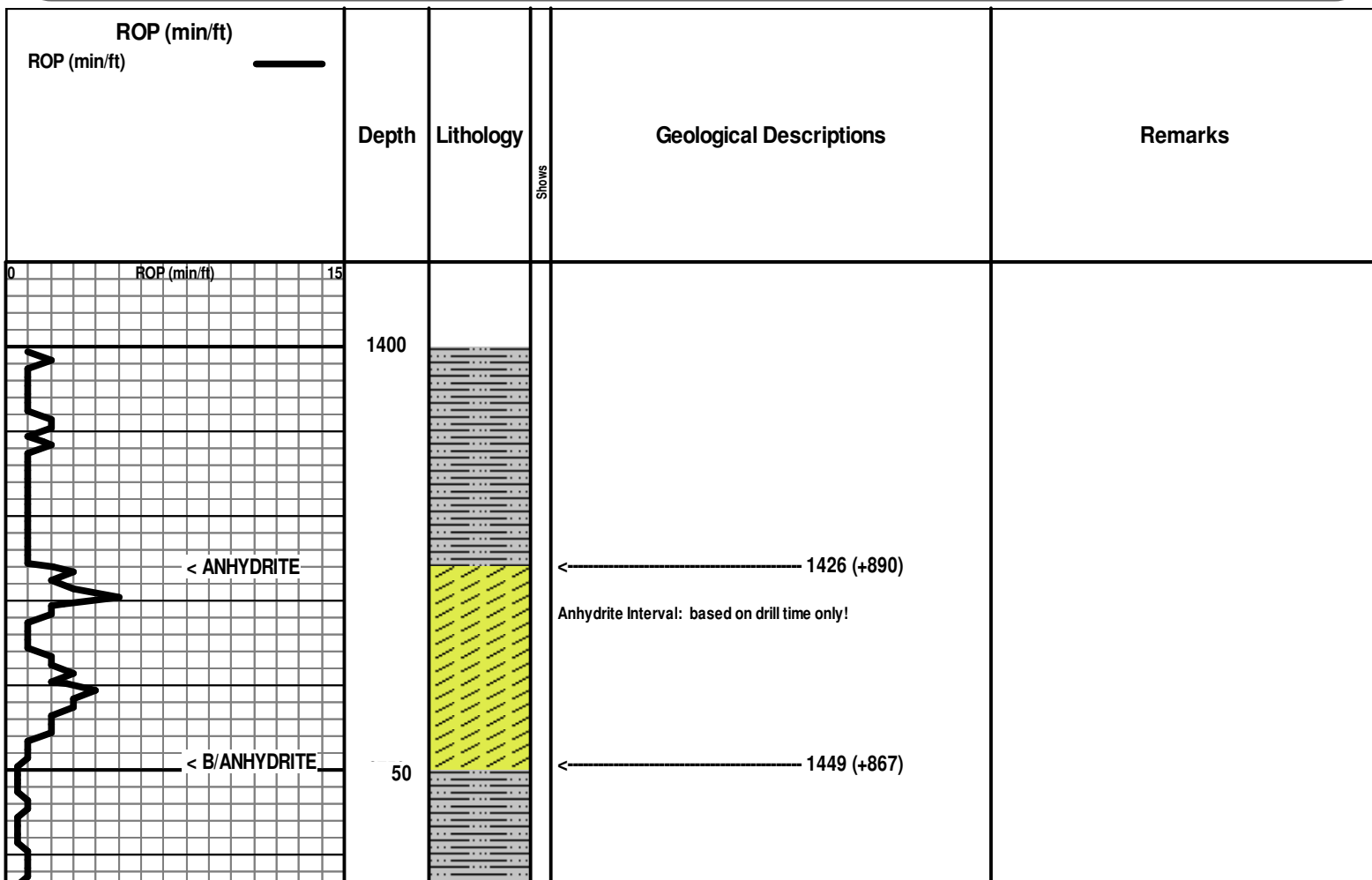
Anhy	Black shale	Lmst	Shcol	Siltysh
Bent	Congl	Meta	Shgy	Shlysiltst
Brec	Dol	Mrlst	Siltst	Sandyls
Cht	Gyp	Salt	Ss	
Clyst	Igne	Shale	Till	

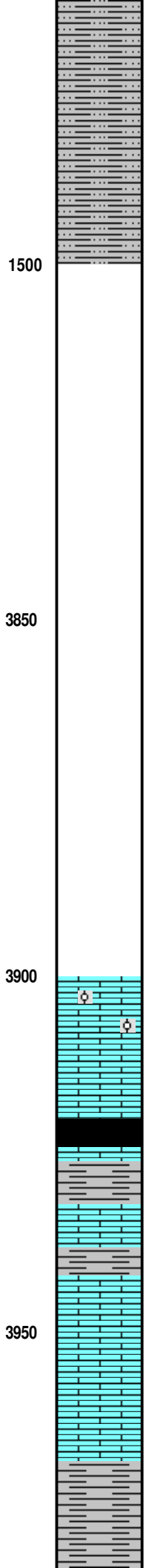
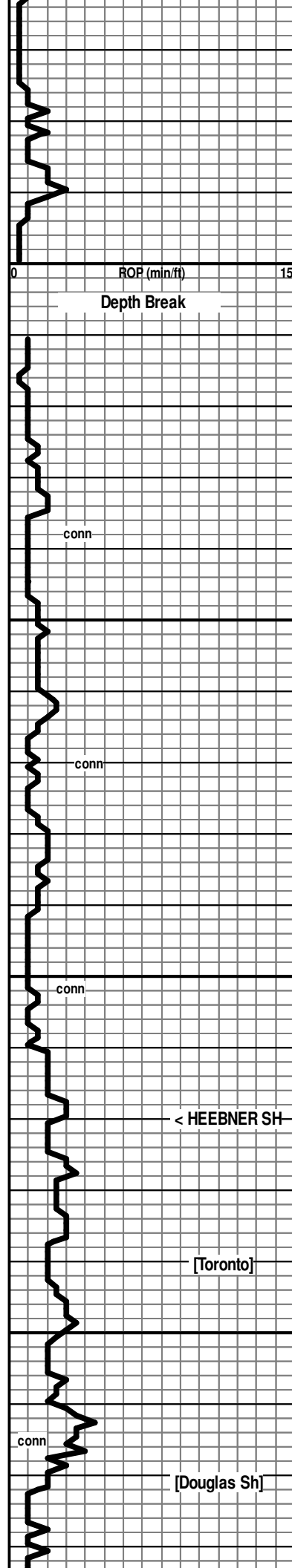
### Accessories

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

### Other Symbols

<b>OIL SHOW</b>	Spotted	Gas	<b>INTERVAL</b>
Gas show	Ques		Core
Even	Dead		Dst





\* Lost returns at 2670 ft, appr 30 bbl!

\* Displace & Mud Up @ 3386 Ft!

Mud Check: Drlg @ 3621'

Vis	Wt	WL	LCM	PV	YP
69	8.8	8.0	3/4	20	21
Chl	Hd	pH	Solids		
1800	20	11.0	3.5		

\* Spls V high % shales!

Ls cr-tan, fn xln, dolom text in pt, pr-fr-gd xln por, foss to abund foss, some fn ool

< HEEBNER SH

← 3920 (-1604)

Sh black, carb

Sh gy-dk gy-grnish gy

[Toronto]

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

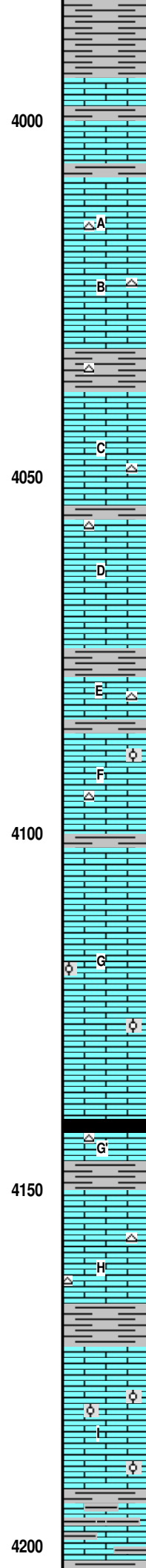
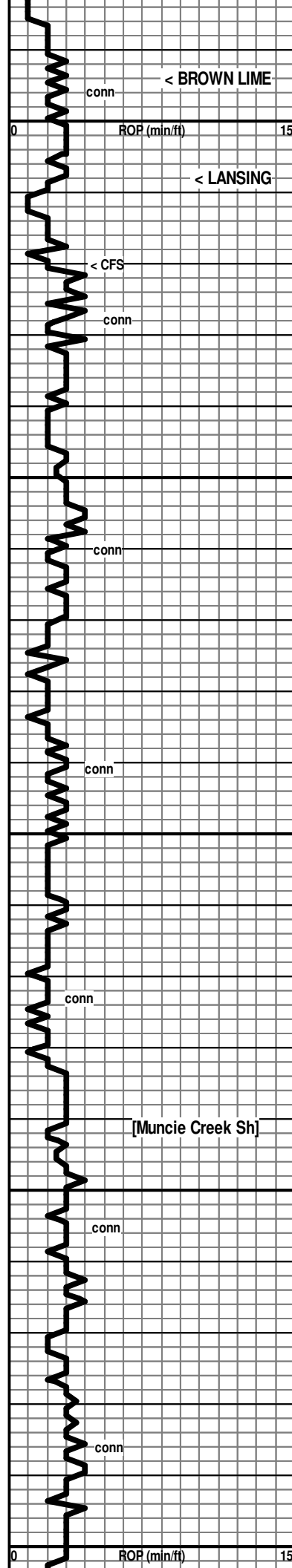
[Douglas Sh]

Spls 60% shales gy-grnish-grm, subsilty & silty in pt; 40% Ls wh-cr, fn xln, pr xln por

\* Lost returns at 2670 ft, appr 30 bbl!

\* Displace & Mud Up @ 3386 Ft!

\* Conections very tight!



75% shales; 25% Ls, as above

← 3994 (-1678)

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

Sh gy

← 4008 (-1692)

Ls wh-cr-tan, fn xln, soft & chalky in pt, pr xln por to dns in pt, foss in pt, chert: fresh, gy. transl to subtr

Ls wh-cr, fn xln, dns to pr xln por, foss in pt, abund chert: mostly tan, subopaq

Sh gy-grnish

Ls wh-cr-tan, fn xln, dns to pr xln por, sli foss in pt, a few pyritic patches, abund chert: fresh, wh-cr-tan, subtransl to subop

Sh gy-grnish

Ls wh-cr-tan, fn xln, dns to pr xln por, some chalky & soft, sli foss in pt, a few pyritic patches, abund chert: fresh, wh-cr-tan, subtransl to subop

Sh gy-grnish

Ls wh-cr, fn xln, dns in pt, pr xln por in pt, chalky in pt, foss (some weath to gy), chert: fresh, wh-gy, opa to subtransl

Sh gy

Ls cr-tan, vfn-fn xln, dns, foss, scatt oolitic (some foss & ool weath'd to gy)

Sh gy

\* Shale % remaining very high!

Ls cr-tan, vfn-fn xln, dns, Rr chalky pcs, foss

Ls wh-cr, fn xln, grainy text in pt, pr-fr xln por in pt, foss, some ool

Ls cr, fn xln, dns, foss

Sh black, carb

Ls cr, fn xln, pr xln por, foss

Sh gy-grnish gy

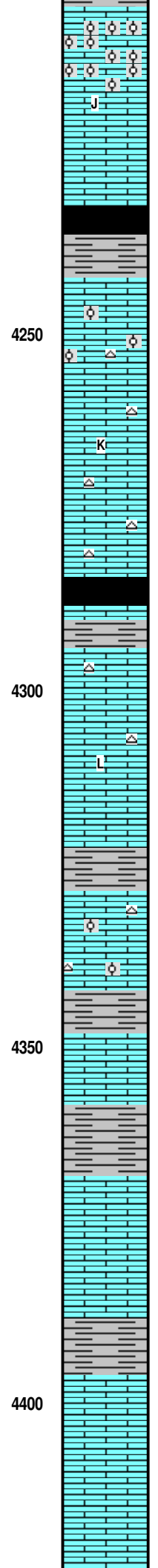
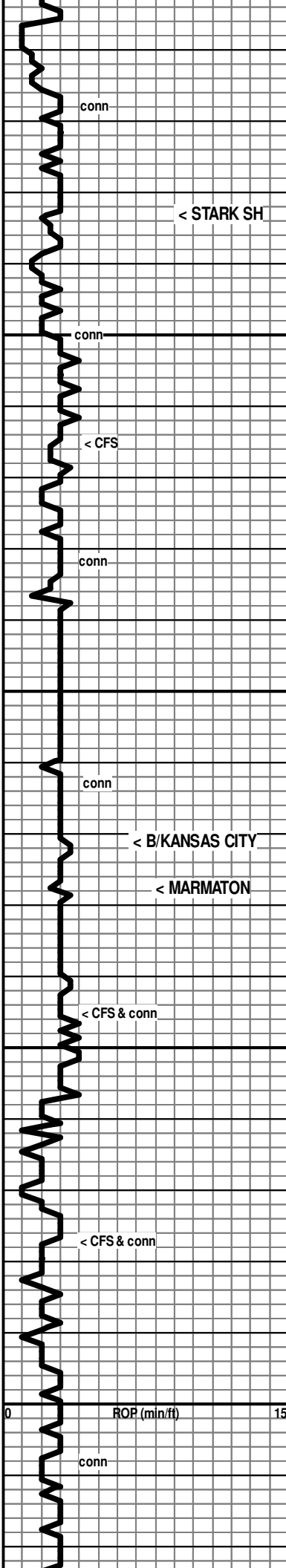
Ls wh-cr-tan, fn xln, subchalky to chalky in pt, dns to pr xln por in pt, foss, trace of wh fresh chert, abund tan transl chert

Sh gy-grnish

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

Shale & Ls, shale gy, dk gy, grnish gy; Ls wh-cr-tan, fn xln, dns, foss

7:00 AM, February, 19, 2017



Ls cr-tan, fn xln, pr-fr xln por in pt, ool & oom, foss in pt

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

\* Shale %s v high!

← 4233 (-1915)

Sh black, carb (poorly repres in spls)

Ls wh-cr-tan-pl gy, vfn-fn xln, mostly dns, some pr xln por, some soft & chalky, foss, ool in pt

Ls wh-cr-tan-pl gy, vfn-fn xln, mostly dns, some pr xln por, some soft & chalky, foss, chert: fresh, wh-gy, transl

Ls wh-cr-tan, vfn-fn xln, dns, foss, scatt pyritic, chert: fresh, wh, subopaq, spiculitic in pt

Sh black, carb

Sh gy

Ls wh-cr, fn xln, chalky to subchalky in pt, dns, foss, chert: fresh, tan, sbutransl, spiculitic

Ls wh-cr-pl gy, fn xln, mostly dns, some pr xln por with V Rr vugs, foss, pyritic in pt

← 4321 (-2005)

Sh gy-dk gy-grn

← 4328 (-2012)

Ls wh-cr, tan-pl gy,vfn-fn xln, dns & firm to soft & chalky, Rr scatt pr xln por, foss, Rr ool pcs, chert: fresh, pl gy-tan, subtransl, spic.

[No Show]

Abund Shale in 4360' spl: gy-dk gy-grn, subsilty in pt

4377' spl: 60% shales: red-gy-grn, subearthy to subsilty text in pt; 40% Ls wh-cr, fn xln, dns in pt, chalky in pt, foss in pt

4377' 20-min spl: 70% shales as above; 30% Ls as above

65% Shale: red-gy-grn; 35% Ls wh-cr-tan-pl gy, vfn-fn xln, dns to pr xln por, chalky in pt, foss in pt

Sh red-gy-grn

Ls wh-cr-tan, vfn-fn xln, mostly dns & firm, some softer & chalky, sli foss in pt

\* Shale %s still high!

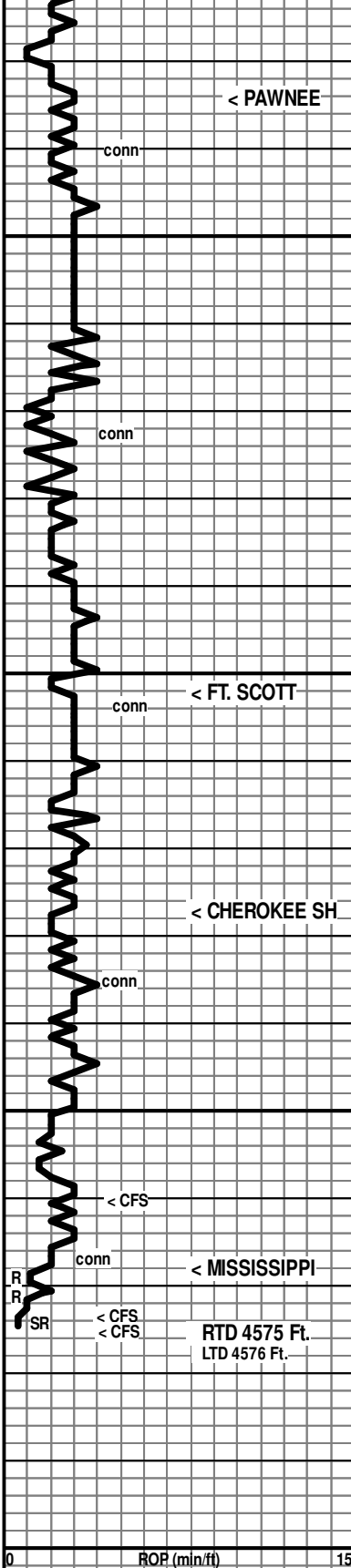
\* Ran 46 Jt Short Trip @ 4265 Ft, to condition hole in anticipation of DSTs below. First few stds tight only!

Mud Check: Short Trip @ 4265':

Vis	Wt	WL	LCM	PV	YP
54	9.2	8.4	1	17	18
Chl	Hd	pH	Solids		
2850	20	10.0	6.3		

0 ROP (min/ft) 15





Sh black-gy-grn, carb in pt (poorly repres in spls)

← 4434 (-2118)

Ls wh-cr, vfn xln, dns, vitreous text in pt, Rr foss

\* Shale %s still high!

Ls wh-cr, vfn xln, dns, vitreous text, chert: fresh,

Sh black, carb (poorly repres in spls)

Sh dk gy-gy-grmish, mod % of wh dns Ls in spls

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

Sh gy-black, carb in pt

← 4502 (-2186)

Ls wh-cr-tan-gy, vfn-fn xln, dns with some chlky pcs, foss to abund foss

← 4527 (-2211)

Spls 65% Shales: gy-black-grm; 35% Ls wh-cr with some tan, fn xln, dns, foss

4550' circ spls: 80% shales, gy-black-grm-red; 20% Ls cr, fn xln, dns, sli foss

90% shales: red-gy-grn-lav-brn, silty-sdy in pt; 10% Ls: wh-cr, fn xln, dns

← 4568 (-2252)

Cherty Dol & Chert: dol is pr-fr xln por in pt, sucrosic, Rr scatt sm vugs; Chert: wh-tan, abund fresh, opa-q-trans, some weath'd in patches & pcs, Rr vugs, spiculitic in pt, 4573-75 as above with incr in vugs and addition of some subtrip to sli tripolitic pcs

[4568-4575: Mild Odor, Abund Brt speckled to patchy to even Fluor, abund Tan-lt brn patchy-even tan-lt brn Sin where porous or weath'd, Sli-Fr shows of tan-brn gassy FO on crush; bottom 2 ft had incr in weathering in patches & pcs with some subtripolitic to sli trip]

7:00 AM, February 20, 2017

Mud Check: Drlg @ 4509':

Vis	Wt	WL	LCM	PV	YP
50	9.4	8.8	2	16	18

Chl Hd pH Solids

3350	20	9.5	7.7
------	----	-----	-----

Mud Check: OB/DST 2 @ 4575':

Vis	Wt	WL	LCM	PV	YP
52	9.4	8.8	1.5	17	18

Chl Hd pH Solids

3200	20	9.5	7.0
------	----	-----	-----

**DST #1: 4549-4573 (Mississippi)**  
 \*Misrun! Hit bridge at 1050 ft, could not penetrate.

\* After DST1, went back to bottom with bit to condition hole & drilled 2 more ft!

\* Pipe Strap @ 4575 ft: .65 Ft Long!

**DST #2: 4551-4575 (Mississippi)**  
 Times: 15-30-45-60  
 Initial Open: Strong Blow b.o.b. 90 sec.  
 Return blow b.o.b. 6 min.  
 Final Open: Strong Blow b.o.b. 90 sec. Return blow b.o.b. 9 min, gts 9 min  
 Rec: 2268' Total Fluid, 2287' gas in pipe  
 2021' GCO: 20%g 80%o 0%w 0%m  
 63' GWMCO: 40%g 50%o 05%w 05%m  
 184' GWMCO: 30%g 40%o 10%w 20%m  
 Gravity Oil: 37.4\*  
 Wtr Chl: insufficient volume to calc  
 IHP: 2327 FHP: 2278  
 IFP: 147-342 FFP: 361-837  
 ISIP: 1393 FSIP: 1371  
 BHT: 125°F



KCC Eric MacLaren 2-13-17 \*

Operator Carmen Schmitt API # 15083-21981 Well Code # \_\_\_\_\_  
 Well Name & No. Horacek "A"-1  
 Location 1820 FM 1000 PML 13-23-21 County Hodgeman State KS  
 Rig No. 16 Contractor \_\_\_\_\_ Tool Pusher Andy Dinkel  
 No. Drill Collars \_\_\_\_\_ Size \_\_\_\_\_ No. Joints Flex Wt. \_\_\_\_\_ Size \_\_\_\_\_ Total Wt. (Both) \_\_\_\_\_  
 Make Pump D375 Liner & Stroke 10x14 Spud 3:30 PM 2-14-17  
 Approx. TD 4800 Elevation 2311 G.L. 2316 K.B. Hole Complete 9:30 PM 2-20-17  
 Move Mileage 122 Mile Trucking Co. 2' Fill MOC Move Cost 19440 120 Hr.

2-9-17  
0 FF  
2-10-17  
0 FF  
2-11-17  
0 FF  
2-12-17  
0 FF  
Build  
Loc

Date	2-13-17	2-15-17	2-16-17	2-17-17	2-18-17	2-19-17	2-20-17	2-21-17	2-22-17	2-23-17
Days	MIRT	woc	Ø	Ø	Ø	Ø	Ø	OST#1	Ran 5 1/2	OFF
Depth	MOC	220	1725	2670	3470	4145	4495	4575	4575	4575
Ft. Cut		220	1505	945	800	675	350	80		
D.T.	2-14-17	8 woc	2 3/4 Chain 1/2 Pump							
D.T.	MIRT	1/2 Rotary Chain	1/2 Plug	1/2 L.C.						
C.T.	MOC			2665		3 1/4	5 3/4	20 1/2	24	8
Bit Wt. Finish	5	20	30	35	35	35	35			
RPM	100	90	80	80	80	80	80			
Pressure + Rig Up	400	800	800	800	800	1000	1000	1000		
SPM	62	62	62	62	62	62	62	62		
Mud Cost			3113	5649	8337	9273	10247	11396		
Mud Wt.	92	93	93	87	91	93	90	91		
Viscosity	40	31	31	69	54	47	54	52		
Water Loss					8	8 1/4	8 1/2	8 1/2		
Clorides					1800	2850	3350	3200		
L.C.M.	-PH			1"	1" -11	2" -10	2" -9 1/2	2" -9 1/2		
Dev. Sur.	1/4-220		1-1747				3/4-4573			
ACC Bit Hours		19 1/2	40 1/4	62 1/4	84 1/2	102	105			
Formation	Sh+Sa	Sh	Sh+Lm	Sh+Lm	Sh+Lm	Sh+Lm	miss			
Weather	Clear	Clear	Clear	Clear	Foggy	Cloudy	Clear	P-C		

NO.	SIZE	TYPE	OUT	FT.	HRS.	CUM. HRS.	BIT COND.			SERIAL #	TOPS
							T	B	G		
1	12 1/2 Varr	ERT RR	220	220	4					1243626	Anky
1	7 1/8 Htco	Gx20C Mn	4575	4355	105	109	41	49		5264729	1427-1449 Straps 4573 165 Long
			5:30 P.m	10:30 P.m	2-21-17	Pioneer	4576	LTD			
109	JTs Tally		4569	RH 30	MH20	Rig Balanced					3:00 P.m 2-22-17

DEPTH	SIZE	SACKS	CEMENT MATERIAL	PLUG DOWN	DRILLED OUT	REMARKS
218	8 5/8	200	60/40 Poz 3% CC 2% Gral	10:30 P.m 2-14-17	10:15 A.m 2-15-17	Circ 10 BBL Copeland
4568	5 1/2	600	SMD	11:00 A.m 2-22-17		Circ 5 BBL Swift
			Pacific Shoe Swift		2000#	

NO.	INTERVAL	OPEN	SHUT	OPEN	SHUT	REC	HH	IFP	ISIP	FFP	FSI
1	4549-4573					10 stand wign Trip					
2	4549-4575	15	30	4.5	60	Bit Face & Tool Stopped @ 10:50					

Drilled  
2' After  
150 feet

2 Hrs wait on State to Approve Pits Extra truck Time  
 Surface Casing Furnished By: C-S m.w 294 Pfeifer Dozer N-S-Liner, Pump Gen  
 Accidents & Remarks: 5 JTs 2160 Mud-Co Mud Fram Pend 1/2 mile  
OFF-Site Reserve Henas Frac  
Master Pump Displac 0.3387 720 BBL Carmen Pd All  
Catch Pit By Rig Has 8 mil Lined (MOC)  
1/2 L.C @ 2665 300 BBL 46 Stand wign Trip @ 4265