

Confidentiality Requested:

Yes  No

**KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

**Form must be Typed**

**Form must be Signed**

**All blanks must be Filled**

**WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

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

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

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

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

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

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

*(Data must be collected from the Reserve Pit)*

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

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

Submitted Electronically

**KCC Office Use ONLY**

Confidentiality Requested

Date: \_\_\_\_\_

Confidential Release Date: \_\_\_\_\_

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Carmen Schmitt, Inc.
Well Name	GLEASON 1
Doc ID	1367004

Tops

Name	Top	Datum
Anydrite	1441	893
Heebner	3944	-1610
Brown Lime	4019	-1685
Lansing	4034	-1700
B/KC	4349	-2015
Marmaton	4355	-2021
Pawnee	4458	-2124
Ft. Scott	4527	-2219
Cherokee	4553	-2219
Mississippian	4593	-2259





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



# Invoice

DATE	INVOICE #
9/14/2017	30765

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	#1	Gleason	Hodgeman	Murfin Drlg Rig #...	Oil	Development	Cement 5 1/2 Lo...	David K.

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
409-5	5 1/2" Turbolizer	12	Each	75.00	900.00T
403-5	5 1/2" Cement Basket	2	Each	250.00	500.00T
406-5	5 1/2" Latch Down Plug & Baffle	1	Each	225.00	225.00T
405-5	5 1/2" Formation Packer Shoe	1	Each	1,300.00	1,300.00T
330	Swift Multi-Density Standard (MIDCON II)	600	Sacks	15.75	9,450.00T
276	Flocele	150	Lb(s)	2.25	337.50T
290	D-Air	6	Gallon(s)	42.00	252.00T
281	Mud Flush	500	Gallon(s)	1.25	625.00T
221	Liquid KCL (Clayfix)	4	Gallon(s)	25.00	100.00T
581D	Service Charge Cement	600	Sacks	1.50	900.00
583D	Drayage	1,790	Ton Miles	0.75	1,342.50
	Subtotal				17,932.00
	Sales Tax Hodgeman County			7.65%	1,047.25

710/43  
19198.0001  
Well file  
Swift Cement Long String

<b>We Appreciate Your Business!</b>	<b>Total</b>	\$18,979.25
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TICKET 30765

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

PAGE 1 OF 2

WELL/PROJECT NO. #1  
 SERVICE LOCATIONS: 1. Miss Galy KS  
 2. Glason  
 3. Murfin Drilling  
 4. Oil  
 CONTRACTOR: Murfin Drilling  
 COUNTY/PARISH: Hodgeman  
 CITY: Burdett  
 STATE: KS  
 DATE: 9-14-17  
 ORDER NO.: Same  
 OWNER: Same  
 TICKET TYPE:  SERVICE  SALES  
 RIG NAME/NO.: # 16  
 DELIVERED TO: Location  
 WELL LOCATION: Burdett - E 10s, 4y 1/2, 1w 1/2  
 WELL PERMIT NO.:  
 JOB PURPOSE: Conent 5 1/2" Longstring  
 DEVELOPMENT: Development  
 INVOICE INSTRUCTIONS:

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC.	ACCT							
575		1					60	mi	5.00	3000.00
579		1		MILEAGE			1	job	1700.00	1700.00
409		1		Pump Charge - Top To Bottom Longstring Turbolizer	5 1/2	in	12	ea	75.00	900.00
403		1		Cement Basket	5 1/2	in	2	ea	250.00	500.00
406		1		Latch Down Plug + Baffle	5 1/2	in	1	ea	225.00	225.00
405		1		Formation Packer Shoe	5 1/2	in	1	ea	1300.00	1300.00

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 Apthorn TIME SIGNED 1315  A.M.  P.M.  
 DATE SIGNED 9-14-17

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

SURVEY: 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?  YES  NO

AGREE  DIS-AGREE

PAGE TOTAL #1 4925.00 #2 13,000.00

TOTAL 17932.00

TOTAL 1047.25

TOTAL 18999.25

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 ticket.

APPROVAL: David Kuchta

SWIFT OPERATOR: David Kuchta

Thank You!



# TICKET CONTINUATION

TICKET No. 30765

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

DATE 9-14-17 PAGE 2 OF 2

WELL Gleason #1

CUSTOMER Carmen Schmitt

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		TIME	DESCRIPTION	QTY	U/M	QTY	U/M	UNIT PRICE	AMOUNT				
		LOC	ACCT				DF		U/M			U/M			
330		1			SMD Cement	600	cks	15	75	9150	00				
276		1			Flocek	1/4	lb	150	25	337	50				
290		1			D-Air	6	gals	42	100	252	00				
281		1			Mud Flush	500	gal	1	25	625	00				
221		1			Liquid KCL	4	gal	25	100	100	00				
581		1			SERVICE CHARGE					1	50	900	00		
583		1			MILEAGE CHARGE	546.50	TOTAL WEIGHT	1790	TON MILES	60	00	75	1342	50	
											CUBIC FEET		600		
											TON MILES		1790		
											CONTINUATION TOTAL			13009	00

JOB LOG

SWIFT Services, Inc.

DATE 9-14-17 PAGE NO. 1

CUSTOMER Carmen Schmitt WELL NO. #1 LEASE Gleason JOB TYPE 5 1/2" Longstring TICKET NO. 30765

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0820							on location 5 1/2" 15.5"
								RTD- 4598 LTD- 4599 TP- 4592 3' of Bottom @ set - 4592 SS- 42.42 Jts out - "1" #110 #111 Turboes - "4" #8 "10" #12 "14" #16 "18" #20 "22" #74 #75 Basket #31 #73
	0830							Start 5 1/2" 15.5" casing in well
	1020							circulate
	1120	1/2	5		✓	1300		Set PKR Shoe @ 4592'
	1125	6 1/2	12		✓	300		Pump 500 gal Mud Flush
		6 1/2	20		✓	300		Pump 20 bbl KCL Flush
			16-11					Plug RH - 1MH (30-20)
	1140	6 1/2	194		✓	300		mix 350 sks SMD 1/4" Flo @ 11.2 ppq
		6 1/2	38		✓	200		mix 100 sks SMD 1/4" Flo @ 12.5 ppq
		4 1/2	15		✓	100		mix 50 sks SMD 1/4" Flo @ 13.5 ppq
		4 1/2	13		✓	100		mix 50 sks SMD 1/4" Flo @ 14.5 ppq
								Wash out Pump + lines / Release Latch Down Plug
	1235	6 1/2	0		✓	100		Start Displacement
		6 1/2	45		✓	300		Lift Pressure
		6 1/2	103.5		✓	1000		circulate Cement to Surface *10sk* <del>land latch</del> max Lift Pressure
		6 1/2	107		✓	1100		
	1250	6 1/2	108.4		✓	2000		Land latch Down Plug cellar fallen Back Release Pressure *Plug Hold*
								wash up truck
	1330							Job Complete Thank You Dave Kirby Preston Wayne



# COPELAND

## Acid & Cement

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

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

**Invoice**

INVOICE NUMBER:  
**C45333-IN**

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

**LEASE: GLEASON #1**

DATE	ORDER	SALESMAN	ORDER DATE	PURCHASE ORDER	SPECIAL INSTRUCTIONS	
09/11/2017	C45333		09/07/2017		NET 30	
QUANTITY	U/M	ITEM NO./DESCRIPTION		D/C	PRICE	EXTENSION
1.00	FT	PRICE AS AGREED TO SET 218' OF 8 5/8 SURFACE PIPE SURFACE PIPE 8 5/8  <i>7/10/43 BCP</i> <i>19/198.0001</i> <i>Well file</i> <i>"Cement Surface"</i>		0.00	2,999.00	2,999.00
<b>REMIT TO:</b> P.O. BOX 438 HAYSVILLE, KS 67060		COP		Net Invoice: 2,999.00 HODCO Sales Tax: 229.42 Invoice Total: <u>3,228.42</u>		
RECEIVED BY _____		<b>NET 30 DAYS</b>				

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



FIELD ORDER N° C 45333

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

DATE 9-7 20 17

IS AUTHORIZED BY: Carmen Schmitt Inc  
(NAME OF CUSTOMER)

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

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

Sec. Twp. Range 14-T23-R21W 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
		Price as agreed to set 218' of 8 5/8" surface pipe		2999 <sup>00</sup>
		Bulk Charge		
		Bulk Truck Miles		
		Process License Fee on _____ Gallons		
		TOTAL BILLING		2999 <sup>00</sup>

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

Copeland Representative Greg L.

Station GB

Matt Suchy  
Well Owner, Operator or Agent

Remarks \_\_\_\_\_

NET 30 DAYS





## DRILL STEM TEST REPORT

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

PO BOX 47  
Great Bend KS 67530+0047

ATTN: Brad Rine

### **Gleason #1**

#### **14-23S-21W Hodgeman KS**

Start Date: 2017.09.13 @ 08:15:00

End Date: 2017.09.13 @ 16:14:15

Job Ticket #: 63042                      DST #: 1

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

Printed: 2017.09.14 @ 08:33:40



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

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

**14-23S-21W Hodgeman KS**

**Gleason #1**

Job Ticket: 63042 **DST#: 1**

Test Start: 2017.09.13 @ 08:15:00

## GENERAL INFORMATION:

Formation: **Mississippi**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 10:53:15  
 Time Test Ended: 16:14:15  
 Interval: **4575.00 ft (KB) To 4598.00 ft (KB) (TVD)**  
 Total Depth: 4598.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Spencer J. Staab  
 Unit No: 84  
 Reference Elevations: 2334.00 ft (KB)  
 2329.00 ft (CF)  
 KB to GR/CF: 5.00 ft

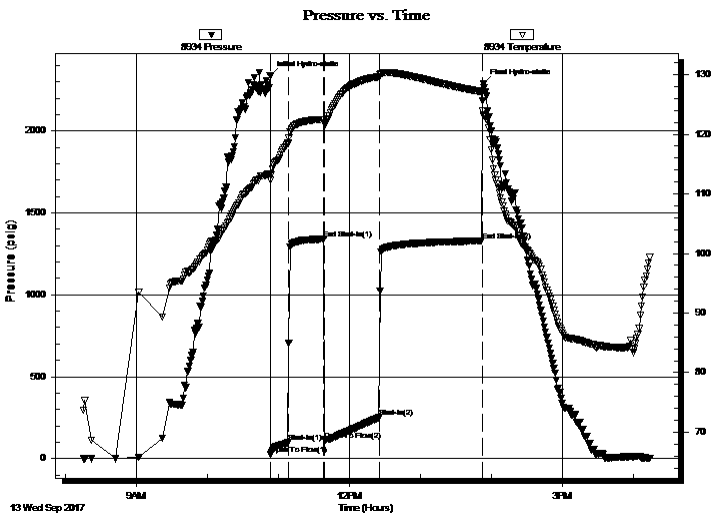
**Serial #: 8934**

**Outside**

Press@RunDepth: 250.64 psig @ 4576.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2017.09.13 End Date: 2017.09.13 Last Calib.: 2017.09.13  
 Start Time: 08:15:15 End Time: 16:14:15 Time On Btm: 2017.09.13 @ 10:53:00  
 Time Off Btm: 2017.09.13 @ 13:53:15

**TEST COMMENT:** 15-IF-Strong Blow ; BOB in 7 mins  
 30-ISI-Fair Blow ; Built to 5"; Died back to 4"  
 45-FF-Strong Blow ; BOB in 3 mins  
 90-FSI-Fair Blow ; BOB in 30 mins

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2335.46	113.39	Initial Hydro-static
1	26.33	112.28	Open To Flow (1)
15	97.55	118.49	Shut-In(1)
46	1340.51	122.47	End Shut-In(1)
47	114.10	121.70	Open To Flow (2)
92	250.64	129.63	Shut-In(2)
179	1328.73	127.11	End Shut-In(2)
181	2286.41	123.11	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	MCGO 10%M 50%G 40%O	0.30
120.00	Gassy Emulsified Oil 30%G 70%O	0.60
120.00	GO 30%G 70%O	1.68
180.00	GO 50%G 50%O	2.52
80.00	GO 10%G 90%O	1.12
0.00	1640' GIP 100%G	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+0047  
ATTN: Brad Rine

**14-23S-21W Hodgeman KS**  
**Gleason #1**  
Job Ticket: 63042      **DST#: 1**  
Test Start: 2017.09.13 @ 08:15:00

**Tool Information**

Drill Pipe:	Length: 4402.00 ft	Diameter: 3.80 inches	Volume: 61.75 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 179.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose:	82000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial	61000.00 lb
Depth to Top Packer:	4575.00 ft			Final	69000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	23.00 ft				
Tool Length:	51.00 ft				
Number of Packers:	1	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>
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Change Over Sub	1.00			4548.00	
Shut In Tool	5.00			4553.00	
Hydraulic tool	5.00			4558.00	
Jars	5.00			4563.00	
Safety Joint	3.00			4566.00	
Packer	5.00			4571.00	28.00      Bottom Of Top Packer
Packer	4.00			4575.00	
Stubb	1.00			4576.00	
Recorder	0.00	9120	Inside	4576.00	
Recorder	0.00	8934	Outside	4576.00	
Perforations	18.00			4594.00	
Bullnose	4.00			4598.00	23.00      Bottom Packers & Anchor

**Total Tool Length: 51.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

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

**14-23S-21W Hodgeman KS**  
**Gleason #1**  
Job Ticket: 63042      **DST#: 1**  
Test Start: 2017.09.13 @ 08:15:00

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 40 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.39 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 3050.00 ppm		
Filter Cake: inches		

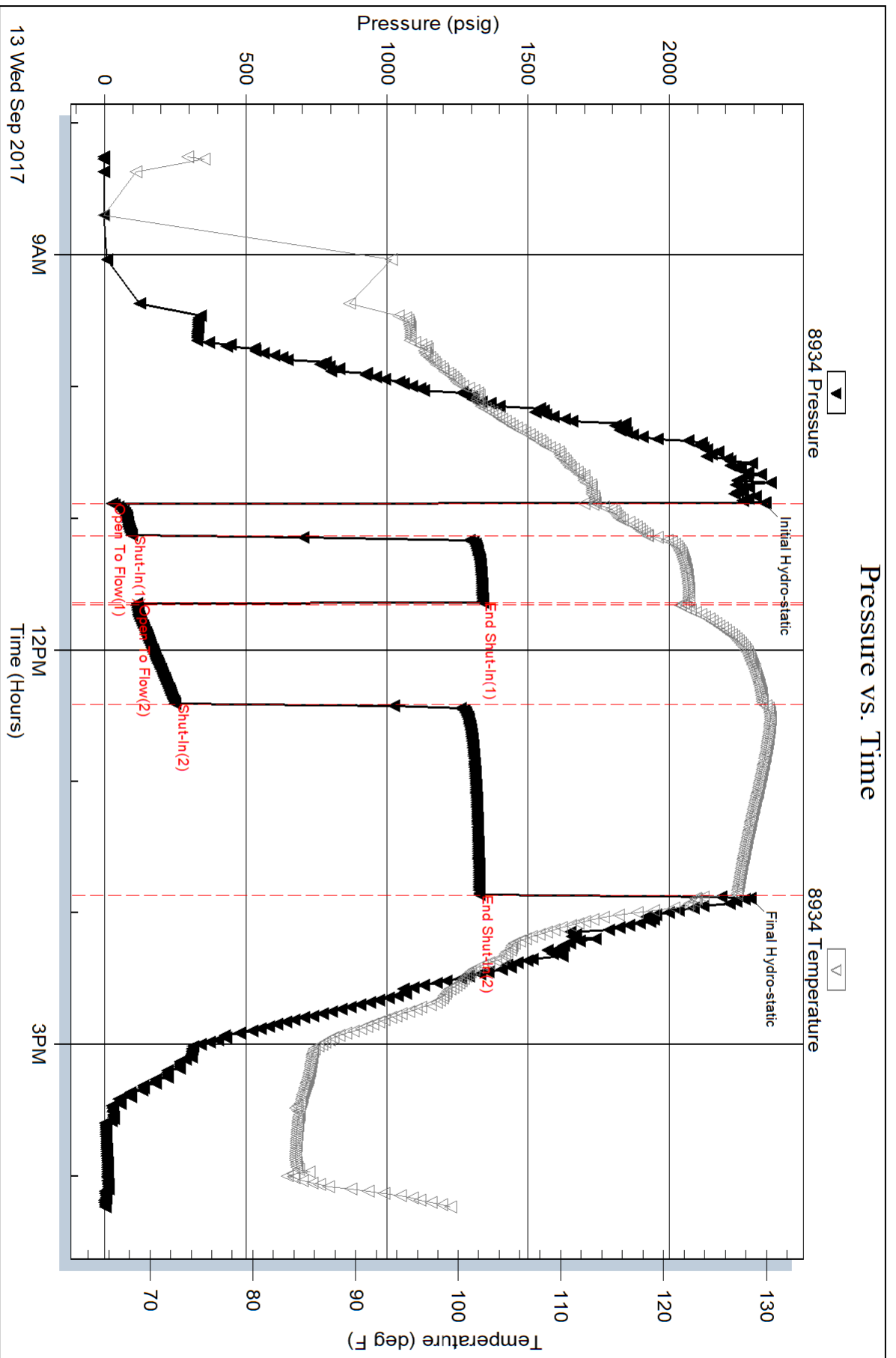
## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	MCGO 10%M 50%G 40%O	0.295
120.00	Gassy Emulsified Oil 30%G 70%O	0.599
120.00	GO 30%G 70%O	1.683
180.00	GO 50%G 50%O	2.525
80.00	GO 10%G 90%O	1.122
0.00	1640' GIP 100%G	0.000

Total Length: 560.00 ft      Total Volume: 6.224 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: 1/2#LCM





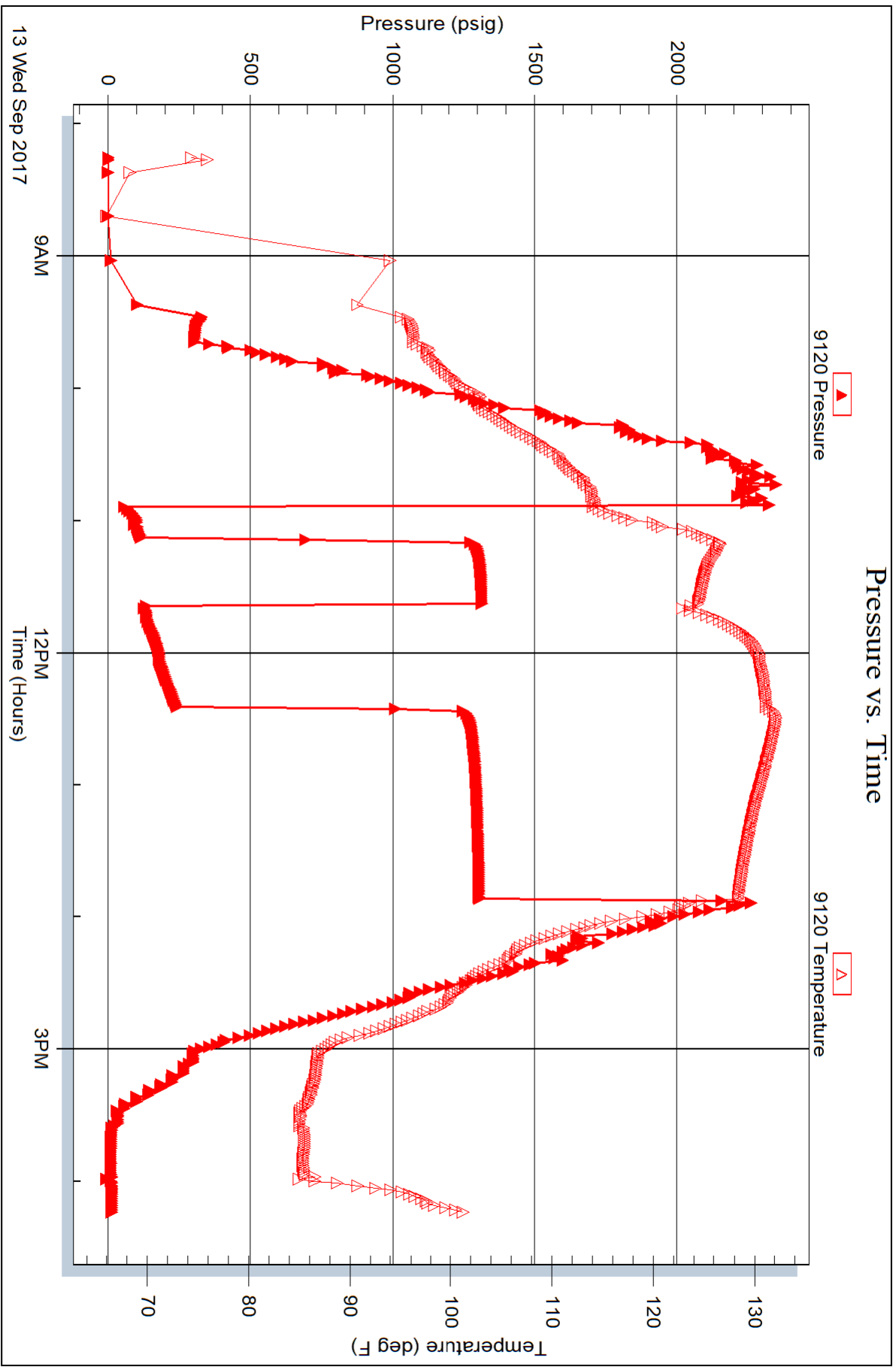
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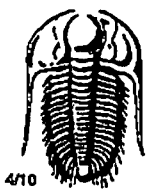
Inside

Carmen Schmitt, Inc.

Gleason #1

DST Test Number: 1





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 63042

Well Name & No. Alison #1 Test No. 1 Date 09/13/2017  
 Company Carmen Schmitt, Inc Elevation 2334 KB 2329 GL  
 Address PO BOX 47 Great Bend Ks 67530 +0047  
 Co. Rep / Geo. Brad Rine Rig Murphy #16  
 Location: Sec. 14 Twp. 23s Rge. 2W Co. Hodgeman State Ks

Interval Tested 4575' - 4598' Zone Tested Mississippi  
 Anchor Length 23' Drill Pipe Run 4402' Mud Wt. 9.3  
 Top Packer Depth 4570' Drill Collars Run 179' Vis 58  
 Bottom Packer Depth 4575' Wt. Pipe Run - WL 8.4  
 Total Depth 4598' Chlorides 3050 ppm System LCM 1/2#

Blow Description 67- Strong Blow; BOB in 7 mins  
68- Fair Blow; Built to 5"; died back to 4"  
77- Strong Blow; BOB in 3 mins  
78- Fair Blow; BOB in 30 mins

Rec	Feet of	%gas	%oil	%water	%mud
60'	MCMO	50	40	10	
120'	Gassy Emulsified Oil	30	70		
120'	Gassy Oil	30	70		
180'	Gassy Oil	50	50		
80'	Gassy Oil	10	90		

Rec Total 560' <sup>1640'</sup> BHT <sup>127°</sup> Gravity 40° API RW 100 @ - °F Chlorides - ppm

(A) Initial Hydrostatic 2335  Test 06:55 T-On Location  
 (B) First Initial Flow 26  Jars 08:15 T-Started  
 (C) First Final Flow 97  Safety Joint 10:52 T-Open  
 (D) Initial Shut-In 1340  Circ Sub 13:52 T-Pulled  
 (E) Second Initial Flow 114  Hourly Standby 16:12 T-Out  
 (F) Second Final Flow 250  Mileage 150 RT Comments  
 (G) Final Shut-In 1328  Sampler  
 (H) Final Hydrostatic 2286  Straddle  Ruined Shale Packer  
 Shale Packer  Ruined Packer  
 Extra Packer  Extra Copies  
 Extra Recorder Sub Total  
 Day Standby Total  
 Accessibility MP/DST Disc't

Initial Open 15  
 Initial Shut-In 30  
 Final Flow 45  
 Final Shut-In 90  
 Approved By \_\_\_\_\_  
 Our Representative Spencer J. Staab Thanks!  
 785-259-0056



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

Well Name: Gleason #1 - Carmen Schmitt, Inc.  
API: 15-083-21943  
Location: N2-NE-SE-NE, Section 14-23S-21W  
License Number: KCC #6569  
Spud Date: September 07, 2017  
Surface Coordinates: 1390'FNL & 330'FEL,  
of Section  
Bottom Hole Vertical Wellbore  
Coordinates:  
Ground Elevation (ft): 2329 Ft. K.B. Elevation (ft): 2334 Ft.  
Logged Interval (ft): 3800 Ft. To: 4598 Ft. Total Depth (ft): RTD 4598 Ft. LTD 4599 Ft.  
Formation: Mississippian at Total Depth  
Type of Drilling Fluid: Chemical

Region: Hodgeman Co., Ks.  
Drilling Completed: September 14, 2017  
Results: Prod Csg Set  
Field: Horacek

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 on the "Gleason #1", for completion in the Mississippian.

Respectfully submitted,  
M. Bradford Rine  
Geologist

**Carmen Schmitt, Inc.**  
**"Gleason #1"**  
**Section 14-23S-21W, Hodgeman County, Kansas**



**Drilling Information**

**Rig: Murfin Drlg Co (Rig #16)**

**Pump: Emsco D375 6x14**

**Drawworks: Cardwell Royale**

**Collars: 498' 2-1/4 x 6-1/4**

**Drillpipe: 4-1/2" 16.6# XH**

**Toolpusher: Andrew Dinkel**

**Mud: Mudco (Jason Whiting)**

**Gas Detector: None**

**Drill Stem Tests: Trilobite (Spencer Staab)**

**Logs: Pioneer (D. Schmidt)**

**Water: Farm Pond, Horacek Lease (Pumped over)**

**Company Representatives:**

**Office: Carmen Schmitt**

**Field: Curtis Hitchmann**

## Daily Drilling Status

**Date:**       **Operations/Depth/Comments**  
 09-06-17   **MIRT @ 0'**  
 09-07-17   **Finish MIRT, RU, Spud @ 0', at 1:15 PM**  
 09-08-17   **Drilling @ 475'**  
 09-09-17   **Drilling @ 2210'**  
 09-10-17   **Drilling @ 3100'**  
 09-11-17   **Drilling @ 3850'**  
 09-12-17   **Drilling @ 4360'**  
 09-13-17   **Trip Out of Hole for DST 1 @ 4598'**  
 09-14-17   **Complete logging at 1:00 am @ 4598'**  
               **Complete run casing and cementing 5:00 PM**

	Results: Oil			(Well A)	Oil	Well B)	D&A		
	Carmen Schmitt, Inc.			Carmen Schmitt, Inc.		Sunray DX Oil			
	Gleason #1			Horacek "A" #1		Gertrude Burr #1			
	1390'FNL & 330'FEL			1820'FNL & 1000'FWL		C-NE-SW			
	Sec. 14-23S-21W			Sec. 13-23S-21W		Sec. 11-23S-21W			
	2334 KB			2316 KB		2343 KB		Well A	Well B
Formations	Sample	E-Log	Datum	E-Log	Datum	E-Log	Datum	Comparison(s)	
Anhydrite	1442	1441	893	1426	890	1457	886	3	7
B/Anhydrite	1463	1462	872	1447	869	1480	863	3	9
Heebner Sh.	3943	3944	-1610	3921	-1605	3961	-1618	-5	8
Brown Lime	4018	4019	-1685	3994	-1678	4041	-1698	-7	13
Lansing	4034	4034	-1700	4008	-1692	4052	-1709	-8	9
Stark Sh.	4263	4262	-1928	4232	-1916	4290	-1947	-12	19
B/Kansas City	4352	4349	-2015	4320	-2004	4373	-2030	-11	15
Marmaton	4358	4355	-2021	4327	-2011	4379	-2036	-10	15
Pawnee	4456	4458	-2124	4434	-2118	4490	-2147	-6	23
Ft. Scott	4530	4527	-2193	4502	-2186	4559	-2216	-7	23
Cherokee Sh.	4554	4553	-2219	4525	-2209	4583	-2240	-10	21
Mississippian	4593	4593	-2259	4567	-2251	4635	-2292	-8	33
Total Depth	4598	4599	-2265	4576	-2260	4723	-2380	-5	115

## Casing Record, Bit Record, Deviation Surveys

### CASING:

Conductor: None

Surface: Set 8-5/8" 23# Casing @ 218 ft. (Copeland) Cement with 185 sx Common 60/40 POZ 3%CC, 2% gel. Cement did circulate.

Production: Ran 108 jts 15.50# 5.5 new casing 4592 ft. with packer shoe. Shoe jt 42.42 ft. centralizes on 4,6,8,10,12,14,16,18,20,22,74,&75th jts. Baskets on 31 & 73 jts. Picked up jt. tagged bottom 4598ft picked up 3ft. off bottom. set pipe at 4592 ft. Circulated 1 hr. Dropped ball and set packer shoe w/(Swift) pump truck. Pumped 500 gal mud flush followed by 20 bbl. KCL flush. Plugged RH with 30 sx and MH with 20 sx. Mixed 550 SKS SMD. started at 11.2# finished at 14.5#. Washed pump and lines, started displacing. Displaced 108.4 bbls at 6.5 bpm. Landed plug at 2000#. Plug held. Cement circulated to surface. 10 SKS to pit. Cement was falling back in surface pipe. First 50 bbl displacement had 2% KCL fluid. Rig released 5:00 PM 09/15/2017

### BITS:

No.	Size	Make	Model	Depth In	Depth Out	Hours
1	12-1/4	RR	TC-11	0	220	3.25
2	7-7/8	HTC	GX20C	220	4598	105.25

### DEVIATION SURVEYS:

Deviation:	Depth:	Deviation:	Depth:
0.25*	220'	0.75*	4598'
0.87*	2441'		

#### DST #1: 4575-4598 (Mississippi)

Times: 15-30-45-90

Initial Open: Stg Blow b.o.b. 7 min,  
Return blow max 5", died back to 4"

Final Open: Stg Blow b.o.b. 3 min,  
Return blow b.o.b. 30 min.

Rec: 560' Total Fluid, 1640' Gas in Pipe

60' GMCO: 50%g 40%o 10%m

120' GCO: 30%g 70%o (emulsified)

120' GCO: 30%g 70%o

180' GCO: 50%g 50%o

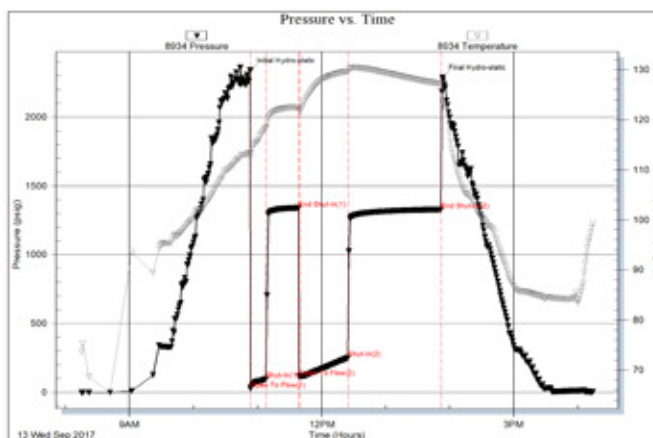
80' SGCO: 10%g 90%o (40\* API)

IHP: 2335 FHP: 2286









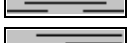
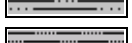



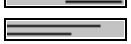
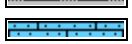
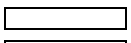
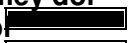





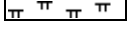




IFP: 26-97 FFP: 114-250

ISIP: 1340 FSIP: 1328






















































BHT: 127°F




### Rock Types

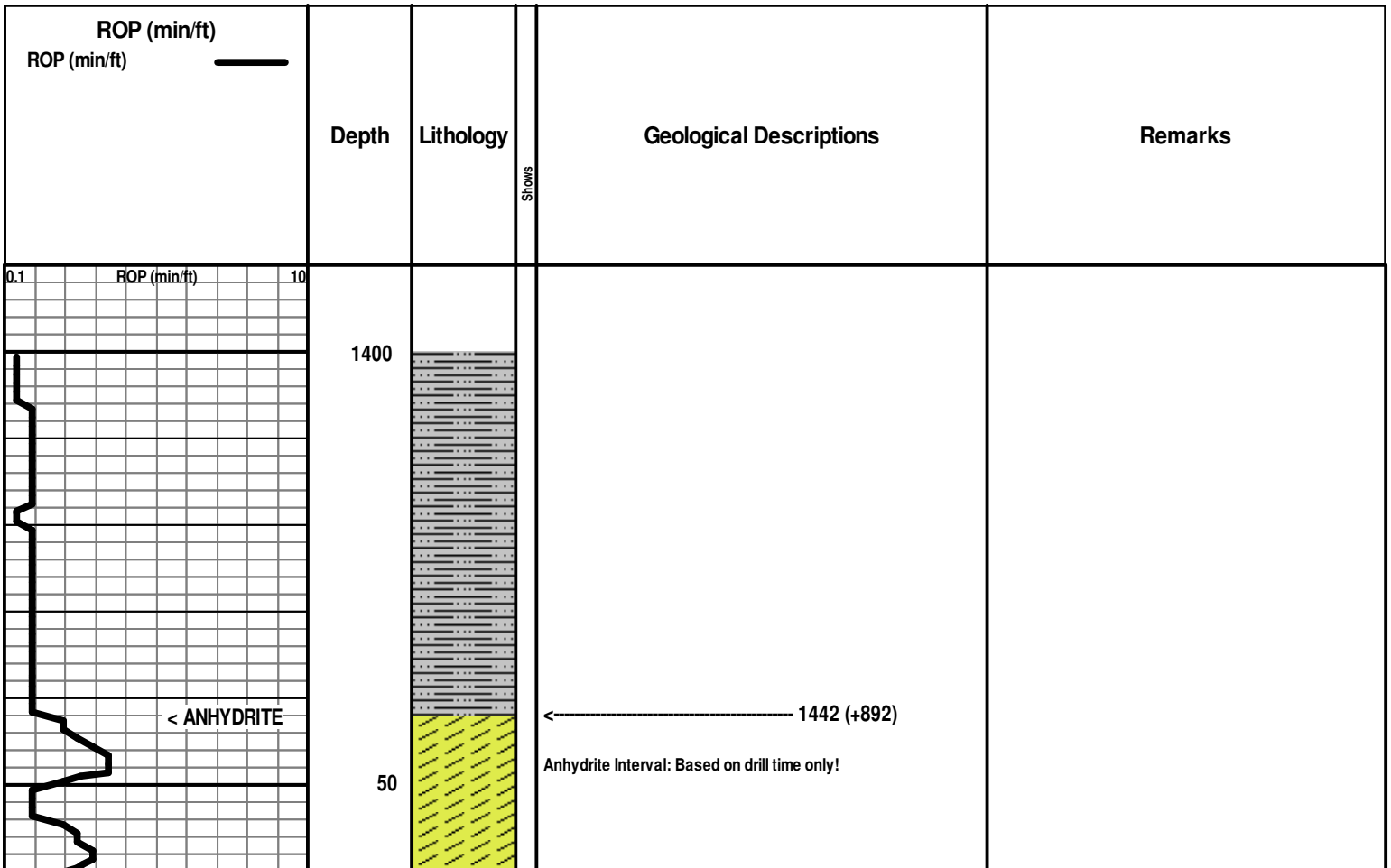
	Congl granite dol ls limey		Bent		Dol		Salt		Till
	New symbol		Brec		Gyp		Shale		Siltysh
	Dolom ls limey		Cht		Igne		Shcol		Shlysiltst
	New symbol		Clyst		Lmst		Shgy		Sandyls
	Anhy		Black shale/coal		Meta		Siltst		
			Congl		Mrlst		Ss		

### Accessories

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

### Other Symbols

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





< B/ANHYDRITE

1463 (+871)

1500

Depth Break

\*Lost Circulation (80  
bbls) @ 2762 ft!

\* Displace and Mudup  
Completed @ 3290 ft!

0.1 ROP (min/ft) 10

3800

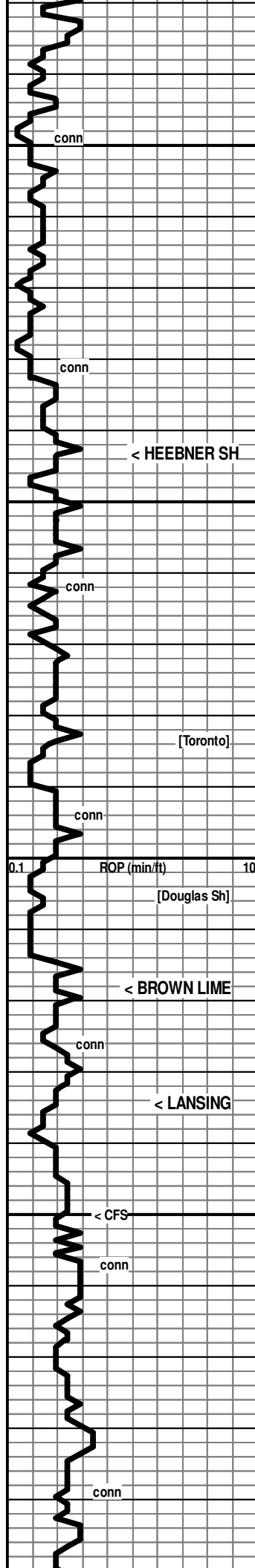
conn

conn

3850

conn

7:00 AM, September 11, 2017



3900

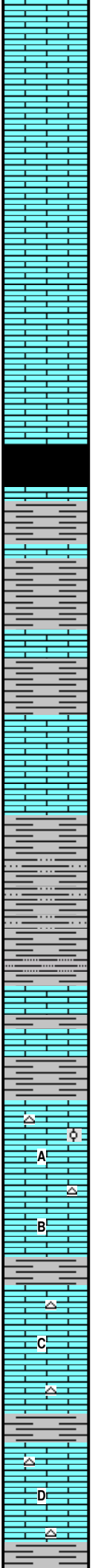
3950

4000

4050

4100

WOB 35k  
RPM 80  
PP 800  
SPM 62



Ls wh-cr, fnxln, pr xln por to dns in pt, chalky & soft in pt

Ls cr, pr-fr xln por with scatt interool pores

← 3943 (-1609)  
Sh black, carb (first arrival in 3970' spl, well repres in 3980' spl)

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

Sh gy-dk gy-grnish

Sh gy-grn

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

Sh gy-grnish, silty in pt to shaley siltstone

← 4018 (-1684)

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

Sh gy

← 4034 (-1700)

Ls cr-tan,fn xln, pr-fr xln por in pt, dns in pt, foss, scatt ool, chert: fresh, gy-tan, subopaq-subtransl, foss in pt

Ls wh-cr, fn xln, dns, foss, chert: fresh, wh-cr-tan, subtransl, foss

Sh gy

Ls wh-cr,fn xln, dns to pr xln por, sli foss in pt, chert: fresh, cr-gy, subtransl

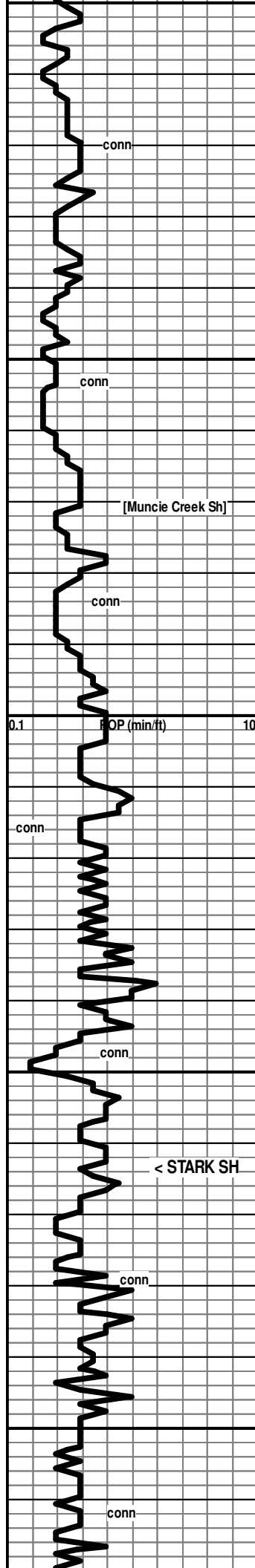
Sh gy

Ls wh-cr,fn xln, dns to pr xln por, sli foss, chert: fresh, cr-tan, transl-subtr

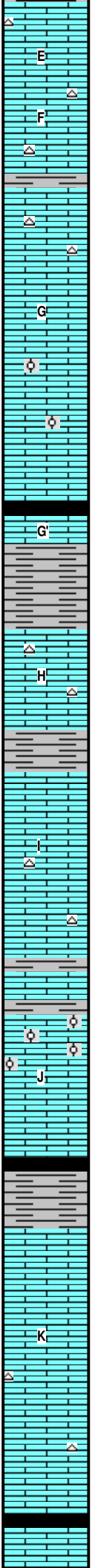
Sh gy-dk gy

Mud Check, CFS @ 4050':

Vis	Wt	WL	LCM	PV	YP
68	9.15	8.8	1/2	22	24
Chl	Hd	pH	Solids		
3900	20	10.0	5.5		



4100  
4150  
4200  
4250  
4300



Ls wh-cr, fn xln, pr xln por in pt, dns in pt, chalky in pt, foss, chert: wh-cr, transl, foss in pt

Sh gy-grn

Ls wh-cr, fn xln, chalky & soft to dns & firm, cherty

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

Sh black, carb

Ls cr, fn xln, pr-fr xln por, scatt sm vugs, foss

Sh gy

Ls wh-cr-tan, fn xln, dns in pt, some chalky, some pr xln por, foss, chert: fresh to grainy, wh-cr-tan, opa-q-transl

Sh gy

Ls wh-cr-tan, fn xln, mostly dns, some chalky, some pr xln por, sli foss, chert: fresh, tan, transl

Sh gy-grnish-red

Ls cr, fn xln, pr-fr xln por, ool & oom, fr oom por

Ls cr-tan,fn xln, dns, foss

← STARK SH → 4263 (-1929)

Sh black, carb...becoming gy with depth

Ls wh-cr,fn xln, mix of chalky & soft to pr xln por-dns & more firm, scatt calcite patches, foss in pt

Ls wh-cr,fn xln, mix of chalky & soft to pr xln por-dns & more firm, scatt calcite patches, foss in pt, chert: fresh, cr-gy, transl-subtr

Sh black, carb

conn

conn

[Muncie Creek Sh]

conn

0.1 P (min/ft) 10

conn

conn

< STARK SH

conn

conn

WOB 35k  
RPM 80  
PP 800  
SPM 62

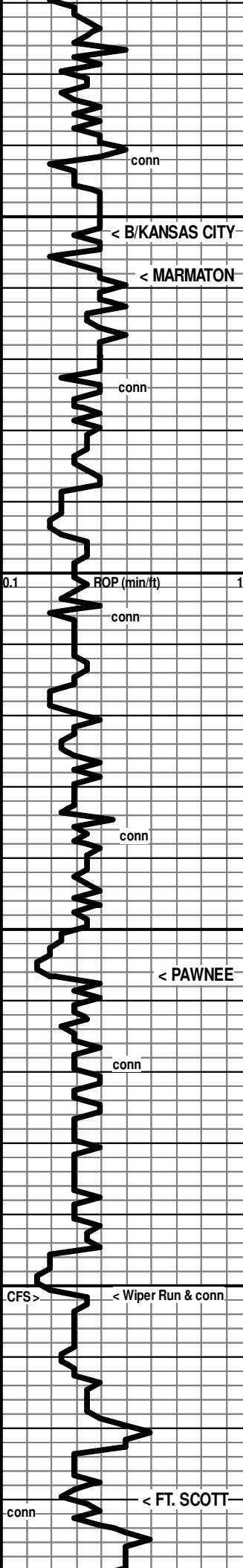
4350

4400

4450

4500

WOB 35k  
RPM 80



conn

< B/KANSAS CITY

< MARMATON

conn

conn

conn

< PAWNEE

conn

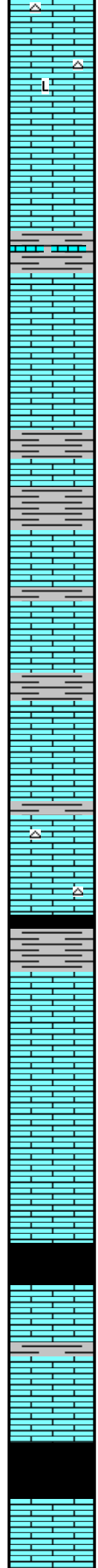
< Wiper Run & conn

< FT. SCOTT

0.1 ROP (min/ft) 10

CFS >

conn



Ls wh-cr-tan-brn, vfn-fn xln, dns, foss, chert: fresh, gy, subtransl

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

← 4352 (-2018)

Sh gy-grnish gy, subsilty in pt

← 4358 (-2024)

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

Sh gy-grnish gy

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

Sh gy-grn

Ls cr, fn xln, dns, scatt calcite patches, foss

Ls cr, fn xln, dns, scatt calcite patches, foss

Sh gy-dk gy

Ls wh-cr, vfn-fn xln, dns to vpr xln por, foss in pt

Sh gy-grnish

Ls wh-cr, vfn-fn xln, dns to vpr xln por, foss in pt, chert: fresh, glassy-wh, transl, foss in pt

Sh mostly gy-grn, some dkgy-black, carb in pt

← 4456 (-2122)

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

Ls wh-cr, fn xln, mostly dns, some pr xln por, trace subchalky, foss in pt

Ls wh-cr, fn xln, mostly dns, some pr xln por, trace subchalky, foss in pt

Sh gy-dk gy-black, carb in pt

80% shales (from short trip?); 20% Ls cr, fn xln, dns, foss in pt

Sh gy

Ls wh-cr, fn xln, soft & chalky in pt, dns & firm in pt, foss, scatt pyr specks

Sh black, carb (arrived in 4540' spl)

← 4530 (-2196)

Ls wh-cr-gy, vfn-fn xln, soft & chalky in pt, dns & firm in pt, foss, scatt calcite specks & patches

7:00 AM, September 12, 2017

Mud Check, Drlg @ 4479':

Vis	Wt	WL	LCM	PV	YP
59	9.3	8.8	1/2	19	19
Chl	Hd	pH	Solids		
3450	20	10.0	7.0		

\* Ran 60-Stand Wiper Run @ 4501 ft, to condition hole for upcoming DSTs and logs!

DST #1: 4575-4598 (Mississippi)  
Time: 15:20:45:00

PP 800  
SPM 62

4550

< CHEROKEE  
SH

conn

< CFS

< CFS

< MISSISSIPPI

< CFS

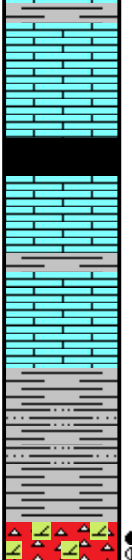
D  
S  
1

4600

RTD 4598 Ft.  
LTD 4599 Ft.

4650

4700



Sh gy

Ls wh-cr-tan, fnxln,dns in pt, chalky in pt, foss

← 4554 (-2220)

Sh black, carb (first arrival 4560' spl)

Ls wh-cr-tan, fnxln,dns in pt, chalky in pt, foss

Sh gy-dk gy

Ls wh-cr-tan, fnxln,dns in pt, chalky in pt, foss

Sh mostly gy-grn with some red, subsilty-silty in pt, foss in pt, abund dns wh ls in spls

← 4593 (-2259)

Dol & chert: Dol, cr-tan, fnxln, subsucrosic-sucr, pr vis xln por, scatt pp pores & sm vugs; Chert: fresh to sli weathered-weath'd with scatt vugs in patches & pcs, wh-cr-tan, subtransl-transl to opa, Tr of pyr

[Stg Odor, Abund Brt spotty-patchy-even Fluor, abund pcs with mix of sli-mod-gd shows of brn gassy FO, patchy-even tan-brn-dk Stn where porous]

Times: 15-30-45-90

Initial Open: Stg Blow b.o.b. 7 min, Return blow max 5", died back to 4"

Final Open: Stg Blow b.o.b. 3 min, Return blow b.o.b. 30 min.

Rec: 560' Total Fluid, 1640' Gas in Pipe

60' GMCO: 50%g 40%o 10%w

120' GCO: 30%g 70%o (emulsified)

120' GCO: 30%g 70%o

180' GCO: 50%g 50%o

80' SGCO: 10%g 90%o (40\* API)

IHP: 2335 FHP: 2286

IFP: 26-97 FFP: 114-250

ISIP: 1340 FSIP: 1328

BHT: 127°F

\* Pipe Strap @ 4598 ft: .34 ft long to board!

7:00 AM, September 13, 2017

Mud Check, Trip for DST @ 4598':

Vis	Wt	WL	LCM	PV	YP
58	9.3	8.4	1/2	18	19
Chl	Hd	pH	Solids		
3050	20	11.0	7.0		