

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) (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	HEYEN TRUST 1-27
Doc ID	1603740

Tops

Name	Top	Datum
Stone Corral	1679	995
Heebener Sh	4336	-1662
Toronto LS	4358	-1684
Dogulas LS	4410	-1736
Lansing	4456	-1782
Stark Sh	4470	-2096
Hushpuckney	4814	-2140
Base/KC	4908	-2234
Marmaton	4928	-2254
Altamont	4936	-2262
Pawnee	5008	-2334
Ft.Scott	5060	-2386
Cherokee Sh	5090	-2416
Morrow Sh	5183	-2509
Mississippi	5190	-2516

FRANKS Oilfield Service, LLC

Invoice

815 Main Street
Victoria, KS 67671

Office (785) 639-3949
24 Hour Service Line (785) 639-7269

Email: franksoilfield@yahoo.com

Date	Invoice #
12/2/2021	0463

Please Pay from this Invoice.
Remit Payment to:
815 Main Street
Victoria, KS 67671
Billing Questions-Call Tianna at
(785) 639-3949

Bill To
Carmen Schmitt, Inc PO Box 47 Great Bend, KS 67530

County/State	Lease/Well#	Terms	Job Type
Ford County, KS	Heyen Trust #1-27	Net 30	LS Surface

Description	Quantity	Rate	Amount
Pump Charge	1	1,850.00	1,850.00
Mileage	75	6.50	487.50
24.66 tons at 75 miles	1,849.5	1.50	2,774.25
Head & Manifold Charge	1	0.00	0.00T
8-5/8" Top Rubber Plug	1	265.00	265.00T
65/35 6% gel 3% calcium	300	19.20	5,760.00T
60/40 3%cal 2% gel	225	18.25	4,106.25T
8-5/8" Baffles	1	180.00	180.00T
Discount		-3,084.60	-3,084.60

Thank you

New Company

7/10/43
19808.0127
BCP Well Ate Surface Cement

Accounts Due Net 10th. 1-1/2% Per Month on all Past Due Accounts. 18% Annual Rate.	Subtotal	\$12,338.40
<i>We appreciate your business and look forward to serving you again!</i>	Sales Tax (7.65%)	\$631.05
	Balance Due	\$12,969.45

FRANKS Oilfield Service

◆ 815 Main Street Victoria, KS 67671 ◆ 24 Hour Phone (785) 639-7269
 ◆ Office Phone (785) 639-3949 ◆ Email: franksoilfield@yahoo.com

TICKET NUMBER 0463
 LOCATION Harc
 FOREMAN Tyler Williams

FIELD TICKET & TREATMENT REPORT

CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
12-02-21	6569	Heyer Trust #1-27	27	28E	26N	Ford
CUSTOMER <u>Carmin Schmitt Inc</u>			TRUCK #			
MAILING ADDRESS <u>P.O. Box 47</u>			DRIVER			
CITY <u>Great Bend</u>			TRUCK #			
STATE <u>KS</u>			DRIVER			
ZIP CODE <u>67530</u>			TRUCK #			
			DRIVER			

JOB TYPE LS Surface HOLE SIZE 12 1/4" HOLE DEPTH 12.35' CASING SIZE & WEIGHT 8 3/8" 24#
 CASING DEPTH 12.34' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 14.8 SLURRY VOL 1.23 WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT 76.5 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safe, meeting & rig up on Martin 114. Shaves run in surface pipe. Hooked up our head & manifold. Circulated mud. Mix 300 sks 6/35, followed by 200 sk 6/40. Displace 76.5 Bbl plug down 2:30 am. Cement did circulate

Thanks Tom & Jack

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
PC003	1	PUMP CHARGE <u>heavy string surface</u>	\$1850 ⁰⁰	\$1850 ⁰⁰
MO01	75	MILEAGE	\$6 ⁵⁰	\$487 ⁵⁰
MO02	24.66 tons	Ton	\$2774 ²⁵	\$2774 ²⁵
LE003	1	8 3/8" head & manifold	—	—
FE06	1	8 3/8" Top rubber plug	\$265 ⁰⁰	\$265 ⁰⁰
CB016	300 sks	6/35 6 gal 3 3/4 LL	\$19 ²⁰	\$5760 ⁰⁰
CB014	225 sks	6/40 2 3/4 gal 3 3/4 LL	\$18 ²⁵	\$4106 ²⁵
		8 3/8" fiber baffle	\$180 ⁰⁰	\$180 ⁰⁰
		sub total		\$15,423 ⁰⁰
		less 20% disc.		\$3,084 ⁶⁰
		sub total		\$12,338 ⁴⁰
		SALES TAX		631.05
		ESTIMATED TOTAL		12969.45

AUTHORIZATION [Signature] TITLE _____ DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



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



Invoice

DATE	INVOICE #
12/15/2021	34095

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	#1-27	Heyen Trust	Ford	WW Drilling	Oil	Development	Long String	David
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				75	Miles	6.00	450.00
578D-L	Pump Charge - Long String				1	Job	1,500.00	1,500.00
290	D-Air				3	Gallon(s)	42.00	126.00T
281	Mud Flush				500	Gallon(s)	1.50	750.00T
221	Liquid KCL (Clayfix)				2	Gallon(s)	25.00	50.00T
403-5	5 1/2" Cement Basket				1	Each	275.00	275.00T
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
409-5	5 1/2" Turbolizer				10	Each	90.00	900.00T
580	Additional Hours (If Circulate More Than 1 Hour)				3	Hours	350.00	1,050.00T
325	Standard Cement				225	Sacks	14.50	3,262.50T
279	Bentonite Gel				4	Sack(s)	30.00	120.00T
283	Salt				1,200	Lb(s)	0.25	300.00T
292	Halad 322				100	Lb(s)	8.50	850.00T
276	Flocele				50	Lb(s)	3.00	150.00T
581D	Service Charge Cement				225	Sacks	2.00	450.00
583D	Drayage				818	Ton Miles	1.00	818.00
	Subtotal							11,626.50
	Sales Tax Ford County						7.65%	643.25
							<p>7/10/43 19808.0127 Well A/c Cement Lays String</p>	
Thank You For Your Business!							Total	\$12,269.75



TICKET 34095

CHARGE TO: ARMAN SCHWITZ
 ADDRESS _____
 CITY, STATE, ZIP CODE _____

PAGE 1 OF 1

SERVICE LOCATIONS? 1-27 WELL/PROJECT NO. 1-27 LEASE HEYERS TRUST COUNTY/PARISH FOLS STATE Ks CITY _____ DATE 12/15/21 OWNER _____
HAYS 25 CONTRACTOR AM DALLMAN RIG NAME/NO. RIG 14 SHIPPED VIA TR ORDER NO. _____
 2. Ness City Ks TICKET TYPE SERVICE SALES WELL TYPE OIL WELL CATEGORY Development JOB PURPOSE LONG STAIN DELIVERED TO Location
 3. _____ WELL PERMIT NO. _____
 4. _____ INVOICE INSTRUCTIONS _____ WELL LOCATION _____

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC ACCT DF	DESCRIPTION	QTY			UNIT PRICE	AMOUNT
				QTY	U/M	U/M		
575			MILEAGE TRAV # 111	75	Mi		6.00	450.00
579			PUMP CHARGE - LONG STAIN	1	EA		1500.00	1500.00
290			D-Air	3	EA		42.00	126.00
281			MUDSUSH	500	gal		1.50	750.00
221			Liquid Kell	2	bar		25.00	50.00
403			GENERATOR	1	EA	5/2	225.00	225.00
406			LATCH DOWN PILE & BATTERY	1	EA		250.00	250.00
407			INSERT HOSE SHOE w/ AUTO FILL	1	EA		325.00	325.00
409			TURBOCHARGER	10	EA		90.00	900.00
580			Additional Hours (wait times)	3	Hrs		350.00	1050.00

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.

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

SURVEY	AGREE	UNDECIDED	DISAGREE	PAGE TOTAL	AMOUNT
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				5676	00
WE UNDERSTOOD AND MET YOUR NEEDS?				5950	50
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				11626	50
WE OPERATED THE EQUIPMENT AND PERFORMED JOB SATISFACTORILY?					
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO			

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.
 X DATE SIGNED _____ TIME SIGNED _____
 A.M. P.M.

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

TOTAL	AMOUNT
12101.50	

SWIFT OPERATOR David Edwards APPROVAL _____
 Thank You!



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

TICKET CONTINUATION

TICKET No. 34095

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	LOC	ACCT	DF	TIME	CUSTOMER	WELL	DATE	PAGE	OF
						Carmen Schmitt	Heyden Trust 1-22	12/15/21	2	3

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	LOC	ACCT	DF	TIME	DESCRIPTION	WELL		UNIT PRICE	AMOUNT
							QTY	U/M		
325		2				STANDARD CEMENT	225	SX	14.50	3262.50
279		2				BENTONITE GEL	4	SX	30.00	120.00
283		2				SALT	1200	lbs	25	300.00
292		2				HAARD 322	100	lbs	8.50	850.00
276		2				FLOCCLE	50	lbs	3.00	150.00
581		2				CEMENT	225	SX	2.00	450.00
583		2				MILEAGE CHARGE	218.22			218.22
						TON MILES	95			
						CUBIC FEET	818			

CONTINUATION TOTAL 5950.50

JOB LOG

SWIFT Services, Inc.

DATE 12/15/21 PAGE NO.

CUSTOMER CARMEN SCHMIT WELL NO. 1-27 LEASE HEYEN TRUST JOB TYPE LONG STROKE TICKET NO. 34095

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1130							ON LOCATION
								5 1/2 x 15.5 #
								RTO-5405
								TOTAL PIPE- 5395.31
								SHOE JT - 42.39
								CENTRALIZERS- 3,5,7,9,11,13,15,17,19
								BASKET- 2
								WAIT FOR WINDS & Csg CREW
	2100							START RUNNING Csg
	2330							Circ on Btm
		6	12			400		pump mud FLUSH - 500 GAL
		6	20			400		PUMP KCL SPACER
		2.5	8			0		Plug RAT HOLE - 30 SX
		2.5	4			0		Plug mouse HOLE - 20 SX
								pump CMT - 175 SX @ 15.0 PPG
								Drop plug - WASH P+L
		7	0			400		START DISP
	225	7	127			1200		LAND plug @ 1800 #
								RELEASE PSI - DRY
								JOB COMPLETE
								THANKS
								DAVID, SETH & JOHN



DRILL STEM TEST REPORT

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

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

Heyen Trust #1-27

27-28s-26w Ford,KS

Start Date: 2021.12.10 @ 22:25:00

End Date: 2021.12.11 @ 08:26:47

Job Ticket #: 67830 DST #: 1

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

Printed: 2021.12.17 @ 12:02:21

Carmen Schmitt, Inc.
27-28s-26w Ford,KS
Heyen Trust #1-27
DST # 1
Pawnee
2021.12.10



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

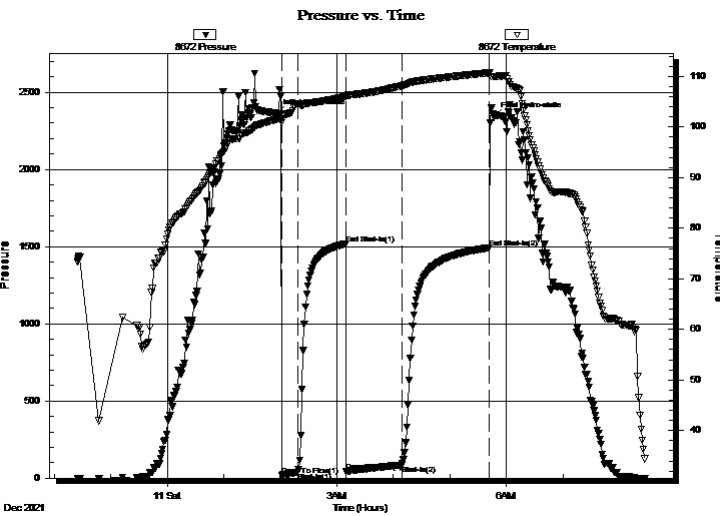
27-28s-26w Ford,KS
Heyen Trust #1-27
 Job Ticket: 67830 **DST#: 1**
 Test Start: 2021.12.10 @ 22:25:00

GENERAL INFORMATION:

Formation: **Pawnee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:01:32
 Time Test Ended: 08:26:47
 Interval: **5001.00 ft (KB) To 5045.00 ft (KB) (TVD)**
 Total Depth: 5045.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Chris Hagman
 Unit No: 69
 Reference Elevations: 2676.00 ft (KB)
 2666.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8672 Inside
 Press@RunDepth: 85.39 psig @ 5003.00 ft (KB) Capacity: psig
 Start Date: 2021.12.10 End Date: 2021.12.11 Last Calib.: 2021.12.10
 Start Time: 22:25:01 End Time: 08:26:47 Time On Btm: 2021.12.11 @ 01:56:47
 Time Off Btm: 2021.12.11 @ 05:46:32

TEST COMMENT: IF: 15 min., Fair building blow, 1.7"
 IS: 45 min., No blow back
 FF: 60 min., Fair building blow, 6.6"
 FS: 90 min., No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2363.84	101.54	Initial Hydro-static
5	19.39	100.83	Open To Flow (1)
22	40.07	104.58	Shut-In(1)
73	1518.69	105.98	End Shut-In(1)
74	42.78	106.14	Open To Flow (2)
132	85.39	108.13	Shut-In(2)
225	1492.77	110.72	End Shut-In(2)
230	2343.43	109.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
143.00	V SOWCM 2% O, 2% W, 96% M	0.70

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

27-28s-26w Ford, KS
Heyen Trust #1-27
Job Ticket: 67830 **DST#: 1**
Test Start: 2021.12.10 @ 22:25:00

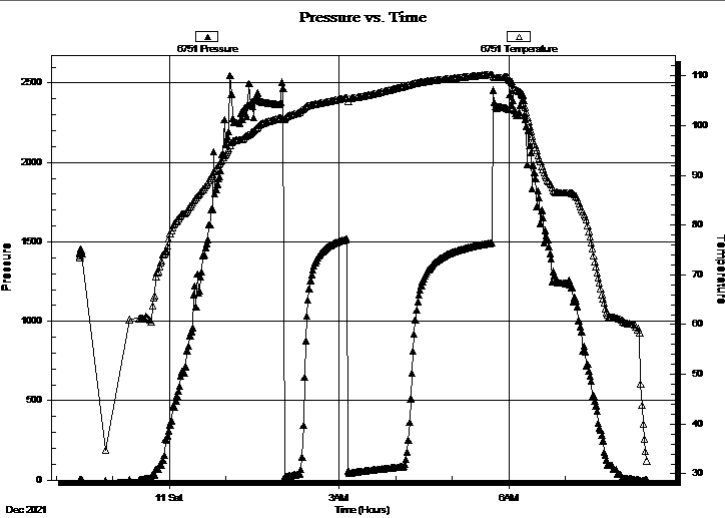
GENERAL INFORMATION:

Formation: Pawnee	Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock: ft (KB)	Tester: Chris Hagman
Time Tool Opened: 02:01:32	Unit No: 69
Time Test Ended: 08:26:47	Reference Elevations: 2676.00 ft (KB)
Interval: 5001.00 ft (KB) To 5045.00 ft (KB) (TVD)	2666.00 ft (CF)
Total Depth: 5045.00 ft (KB) (TVD)	KB to GR/CF: 10.00 ft
Hole Diameter: 7.88 inches	Hole Condition: Good

Serial #: 6751

Press@RunDepth: psig @ ft (KB)	Capacity: psig
Start Date: 2021.12.10 End Date: 2021.12.11	Last Calib.: 1899.12.30
Start Time: 22:25:01 End Time: 08:26:47	Time On Btm:
	Time Off Btm:

TEST COMMENT: IF: 15 min., Fair building blow , 1.7"
IS: 45 min., No blow back
FF: 60 min., Fair building blow , 6.6"
FS: 90 min., No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
143.00	V SOWCM 2% O, 2% W, 96% M	0.70

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt, Inc.

27-28s-26w Ford,KS

PO Box 47
Great Bend, KS 67530

Heyen Trust #1-27

Job Ticket: 67830

DST#: 1

ATTN: Brad Rine

Test Start: 2021.12.10 @ 22:25:00

Tool Information

Drill Pipe:	Length: 4821.00 ft	Diameter: 3.80 inches	Volume: 67.63 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 173.00 ft	Diameter: 2.25 inches	Volume: 0.85 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 68.48 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	5001.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	70.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4980.00	
Hydraulic tool	5.00			4985.00	
Jars	5.00			4990.00	
Safety Joint	2.00			4992.00	
Packer	5.00			4997.00	26.00 Bottom Of Top Packer
Packer	4.00			5001.00	
Stubb	1.00			5002.00	
Perforations	1.00			5003.00	
Recorder	0.00	8672	Inside	5003.00	
Recorder	0.00	6751	Outside	5003.00	
Perforations	5.00			5008.00	
Change Over Sub	1.00			5009.00	
Drill Pipe	32.00			5041.00	
Change Over Sub	1.00			5042.00	
Bullnose	3.00			5045.00	44.00 Bottom Packers & Anchor

Total Tool Length: 70.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc.

27-28s-26w Ford,KS

PO Box 47
Great Bend, KS 67530

Heyen Trust #1-27

Job Ticket: 67830

DST#: 1

ATTN: Brad Rine

Test Start: 2021.12.10 @ 22:25:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
143.00	VSOWCM 2%O,2%W,96%M	0.703

Total Length: 143.00 ft Total Volume: 0.703 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

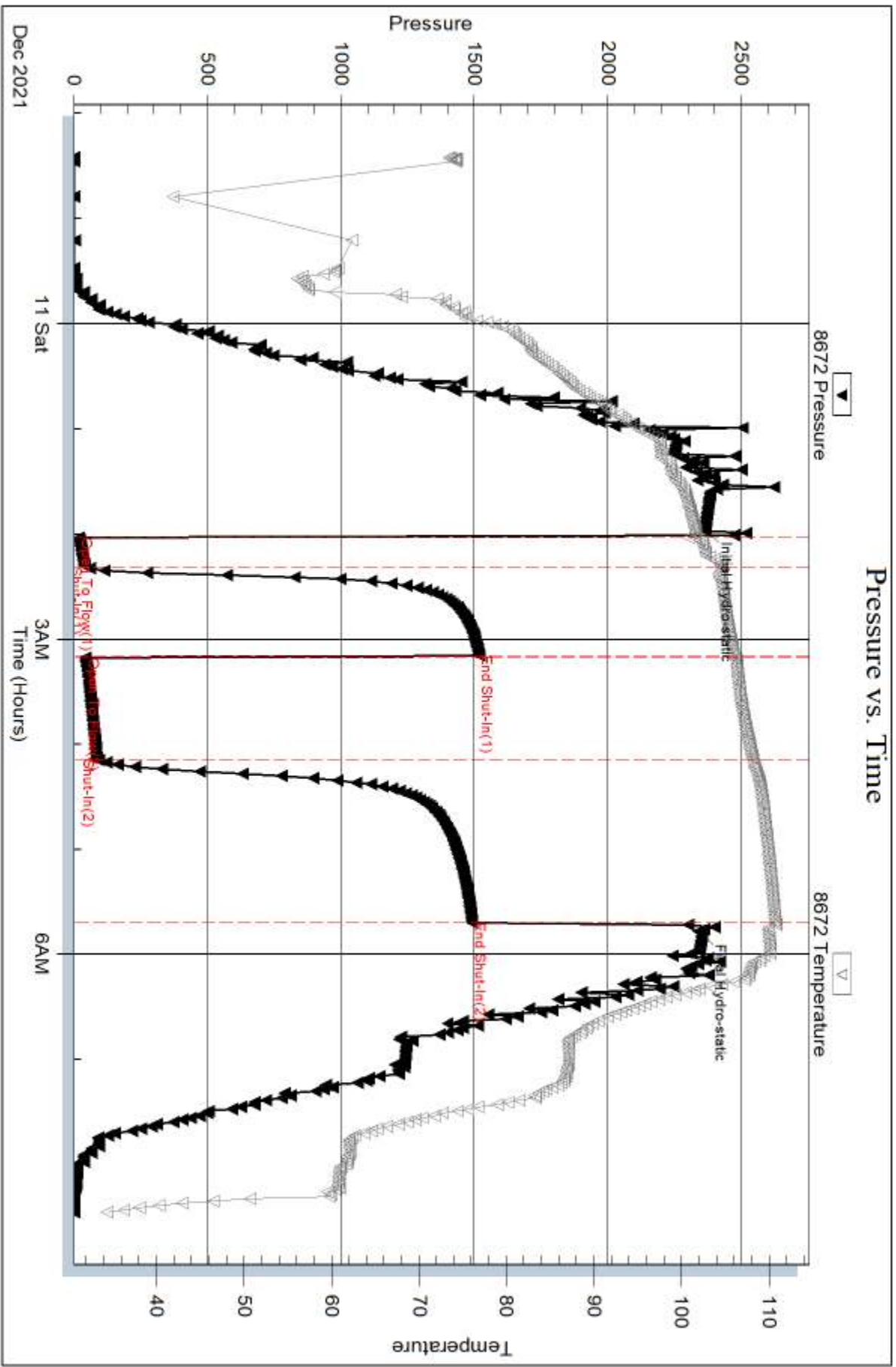
Serial #: 8672

Inside

Carmen Schmitt, Inc.

Heyen Trust #1-27

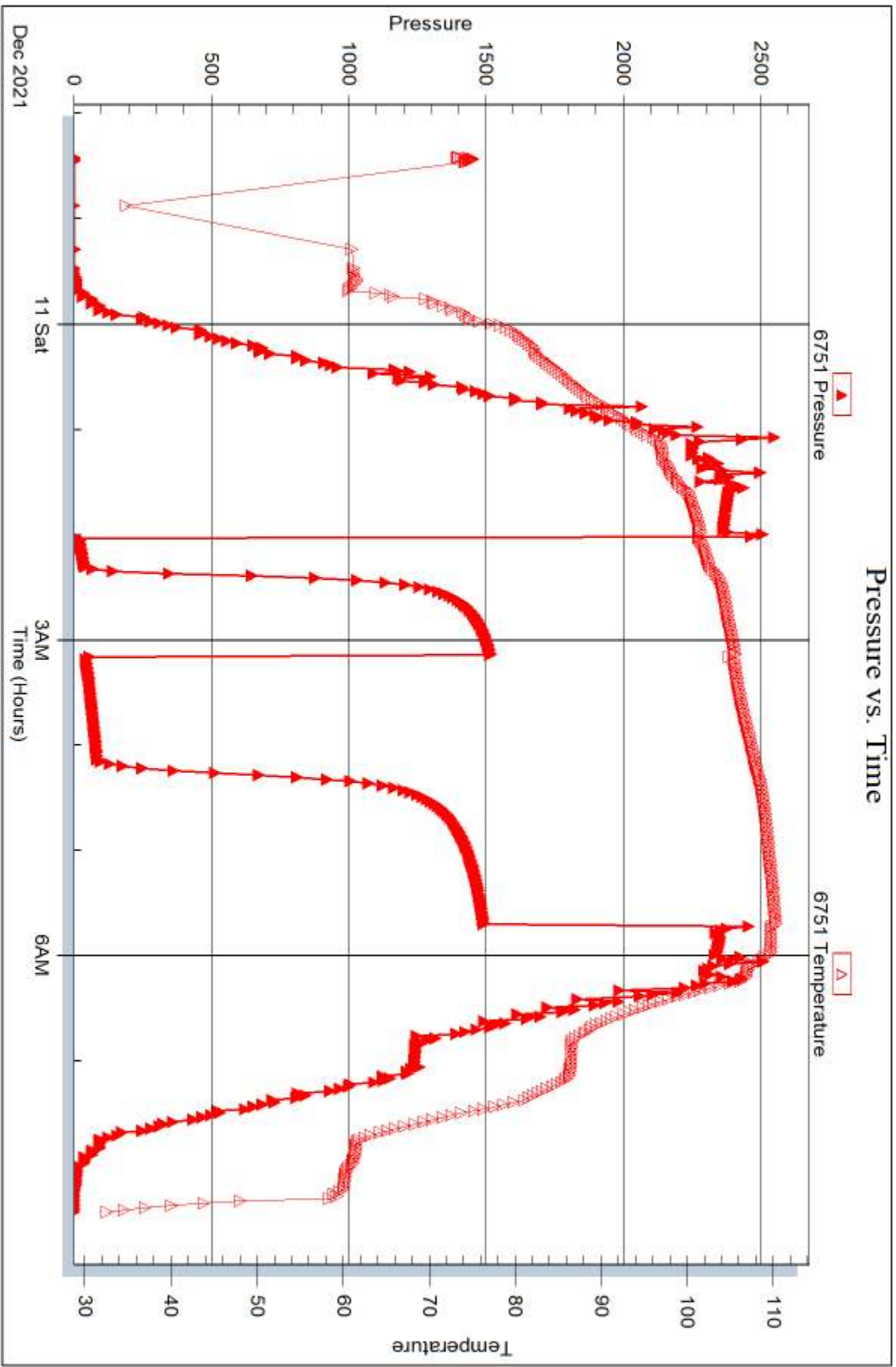
DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 67830

Printed: 2021.12.17 @ 12:02:23





DRILL STEM TEST REPORT

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

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

Heyen Trust #1-27

27-28s-26w Ford,KS

Start Date: 2021.12.12 @ 08:00:00

End Date: 2021.12.12 @ 13:44:02

Job Ticket #: 67831 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2021.12.17 @ 12:01:18



DRILL STEM TEST REPORT

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

27-28s-26w Ford,KS
Heyen Trust #1-27
 Job Ticket: 67831 **DST#: 2**
 Test Start: 2021.12.12 @ 08:00:00

GENERAL INFORMATION:

Formation: **Atoka**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 10:27:17 Tester: Chris Hagman
 Time Test Ended: 13:44:02 Unit No: 69
Interval: 5141.00 ft (KB) To 5170.00 ft (KB) (TVD) Reference Elevations: 2676.00 ft (KB)
 Total Depth: 5170.00 ft (KB) (TVD) 2666.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 10.00 ft

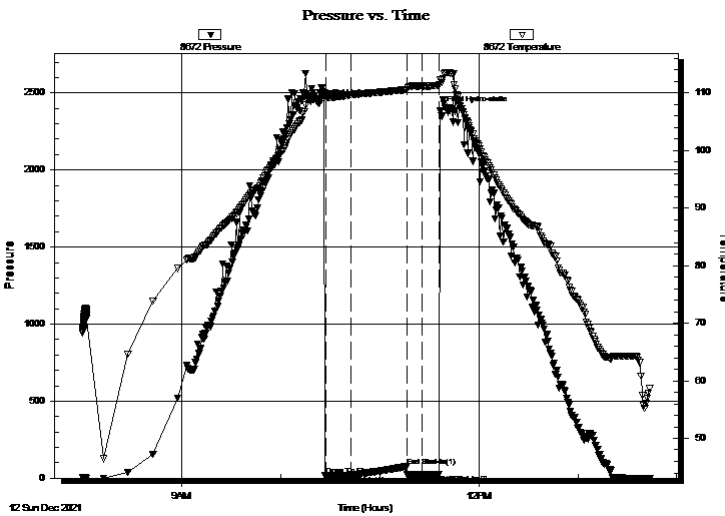
Serial #: 8672

Inside

Press@RunDepth:	23.38 psig @	5143.00 ft (KB)	Capacity:	psig	
Start Date:	2021.12.12	End Date:	2021.12.12	Last Calib.:	2021.12.12
Start Time:	08:00:01	End Time:	13:44:02	Time On Btm:	2021.12.12 @ 10:23:32
				Time Off Btm:	2021.12.12 @ 11:36:47

TEST COMMENT: IF: 15 min., Weak surface blow , .7"
 IS: 30 min., No blow back
 FF: 10 min., Weak surface blow , .1"
 FS: 10 min., No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2431.40	108.93	Initial Hydro-static
4	19.46	109.18	Open To Flow (1)
19	19.81	109.65	Shut-In(1)
53	74.91	110.57	End Shut-In(1)
54	21.96	110.55	Open To Flow (2)
62	23.38	111.19	Shut-In(2)
73	25.33	111.34	End Shut-In(2)
74	2383.39	112.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100% Mud	0.02

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

27-28s-26w Ford, KS

Heyen Trust #1-27

Job Ticket: 67831

DST#: 2

Test Start: 2021.12.12 @ 08:00:00

GENERAL INFORMATION:

Formation: **Atoka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:27:17

Time Test Ended: 13:44:02

Interval: 5141.00 ft (KB) To 5170.00 ft (KB) (TVD)

Total Depth: 5170.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 69

Reference Elevations: 2676.00 ft (KB)

2666.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6751

Press@RunDepth: psig @ ft (KB)

Start Date: 2021.12.12 End Date: 2021.12.12

Start Time: 08:00:01 End Time: 13:44:02

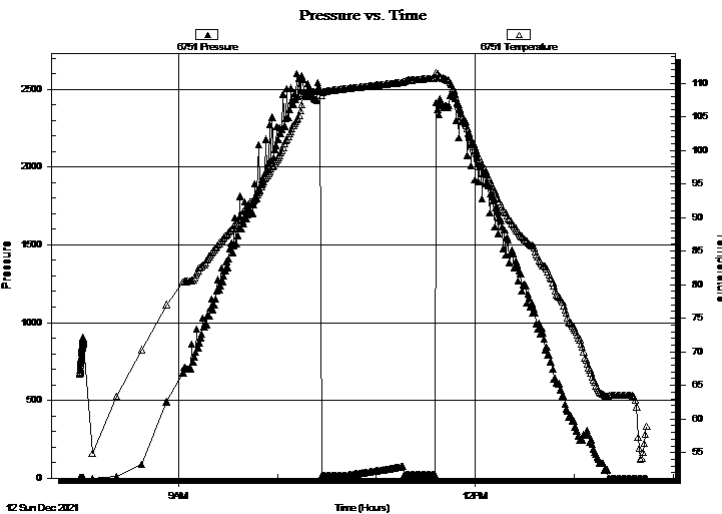
Capacity: psig

Last Calib.: 1899.12.30

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 15 min., Weak surface blow, .7"
 IS: 30 min., No blow back
 FF: 10 min., Weak surface blow, .1"
 FS: 10 min., No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100% Mud	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt, Inc.

27-28s-26w Ford,KS

PO Box 47
Great Bend, KS 67530

Heyen Trust #1-27

Job Ticket: 67831

DST#: 2

ATTN: Brad Rine

Test Start: 2021.12.12 @ 08:00:00

Tool Information

Drill Pipe:	Length: 4945.00 ft	Diameter: 3.80 inches	Volume: 69.37 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 173.00 ft	Diameter: 2.25 inches	Volume: 0.85 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 70.22 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	5141.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	55.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Shut In Tool	5.00			5120.00	
Hydraulic tool	5.00			5125.00	
Jars	5.00			5130.00	
Safety Joint	2.00			5132.00	
Packer	5.00			5137.00	26.00 Bottom Of Top Packer
Packer	4.00			5141.00	
Stubb	1.00			5142.00	
Perforations	1.00			5143.00	
Recorder	0.00	8672	Inside	5143.00	
Recorder	0.00	6751	Outside	5143.00	
Perforations	24.00			5167.00	
Bullnose	3.00			5170.00	29.00 Bottom Packers & Anchor

Total Tool Length: 55.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc.

27-28s-26w Ford,KS

PO Box 47
Great Bend, KS 67530

Heyen Trust #1-27

Job Ticket: 67831

DST#: 2

ATTN: Brad Rine

Test Start: 2021.12.12 @ 08:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5050.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	100% Mud	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

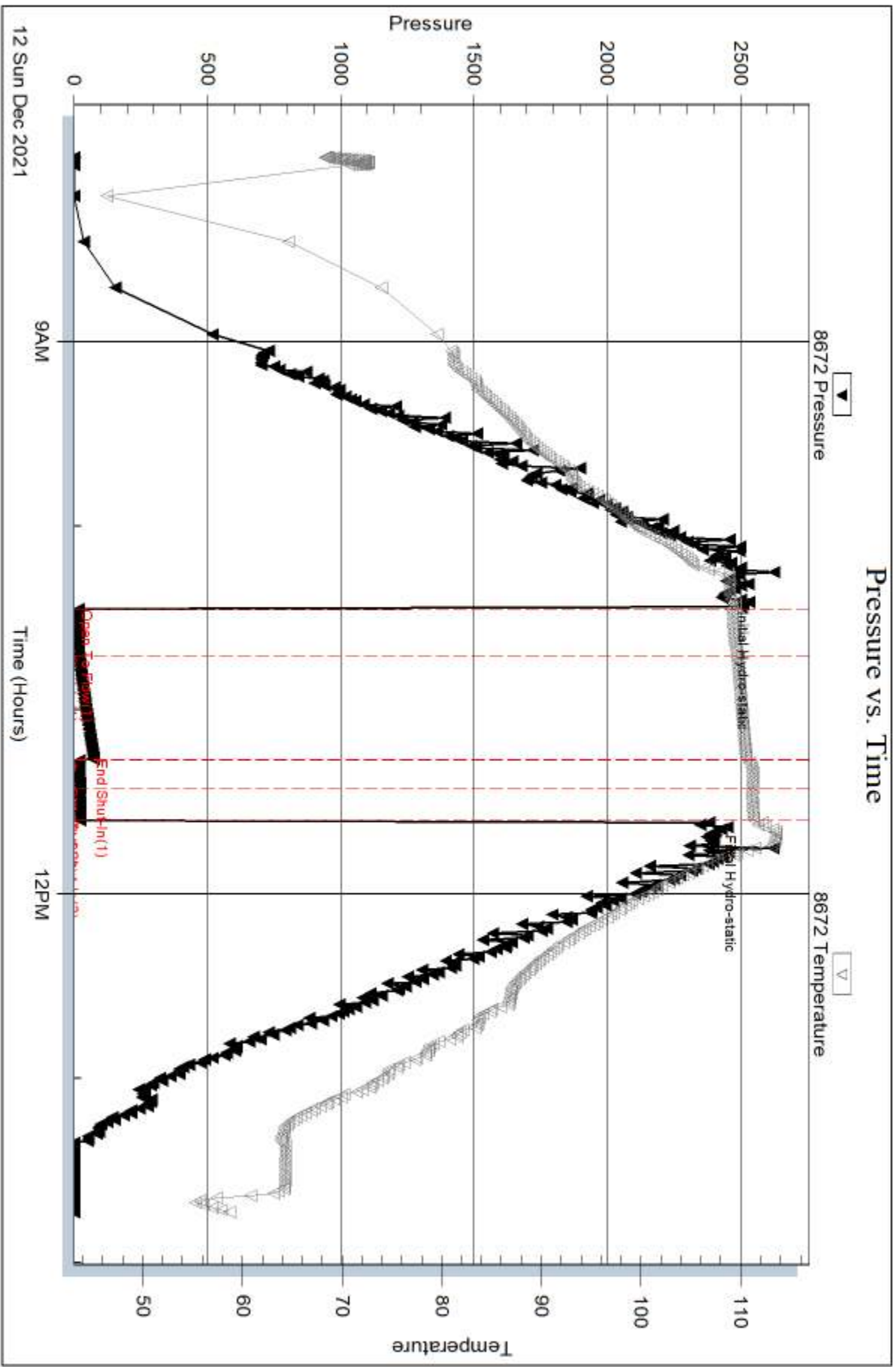
Serial #: 8672

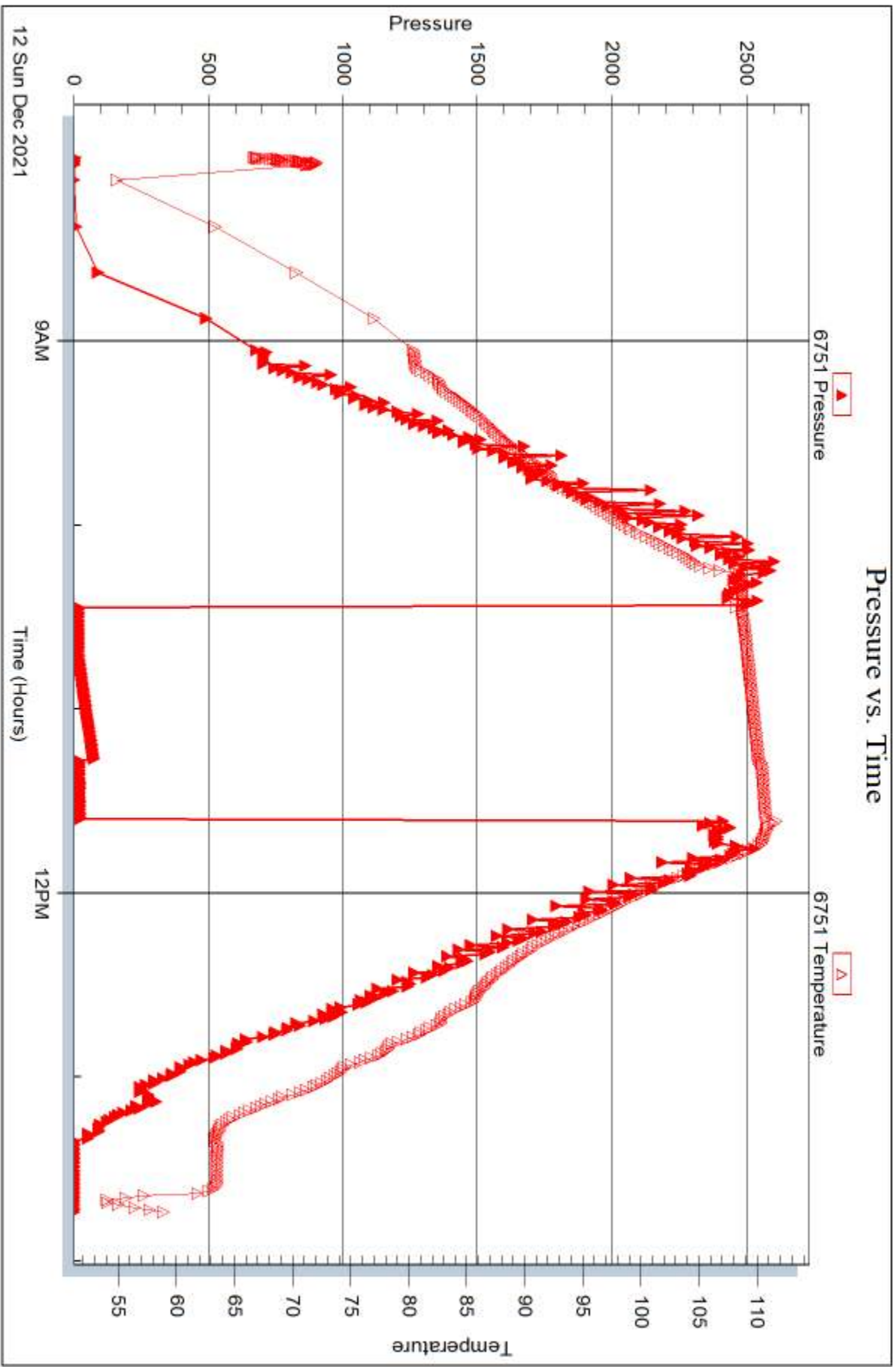
Inside

Carmen Schmitt, Inc.

Heyen Trust #1-27

DST Test Number: 2







DRILL STEM TEST REPORT

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

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

Heyen Trust #1-27

27-28s-26w Ford,KS

Start Date: 2021.12.13 @ 08:07:00

End Date: 2021.12.13 @ 17:40:47

Job Ticket #: 67832 DST #: 3

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

Printed: 2021.12.17 @ 11:59:52



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

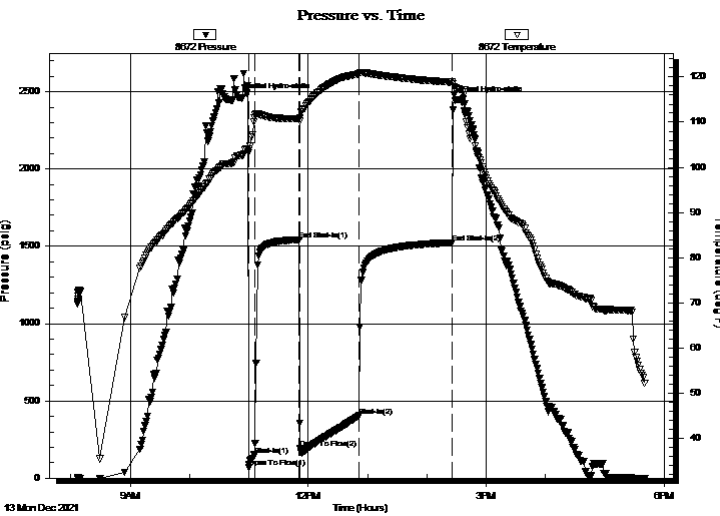
27-28s-26w Ford,KS
Heyen Trust #1-27
Job Ticket: 67832 **DST#: 3**
Test Start: 2021.12.13 @ 08:07:00

GENERAL INFORMATION:

Formation: **Miss.**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 10:59:47 Tester: Chris Hagman
Time Test Ended: 17:40:47 Unit No: 69
Interval: 5198.00 ft (KB) To 5270.00 ft (KB) (TVD) Reference Elevations: 2676.00 ft (KB)
Total Depth: 5270.00 ft (KB) (TVD) 2666.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 10.00 ft

Serial #: 8672 Inside
Press@RunDepth: 403.88 psig @ 5201.00 ft (KB) Capacity: psig
Start Date: 2021.12.13 End Date: 2021.12.13 Last Calib.: 2021.12.13
Start Time: 08:07:01 End Time: 17:40:47 Time On Btm: 2021.12.13 @ 10:52:47
Time Off Btm: 2021.12.13 @ 14:28:47

TEST COMMENT: IF: 5 min., BOB 3 min., strong building blow , 29 "
IS: 45 min., No blow back
FF: 60 min., BOB 2 min., strong building blow , 345"
FS: 90 min., Blow back immediately, BOB 8 min., 33", GTS



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2459.03	102.65	Initial Hydro-static
7	67.18	103.21	Open To Flow (1)
13	145.72	111.07	Shut-In(1)
59	1543.22	110.84	End Shut-In(1)
59	189.77	110.96	Open To Flow (2)
119	403.88	120.70	Shut-In(2)
213	1523.78	118.88	End Shut-In(2)
217	2441.49	117.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
173.00	GWMCO 5%G,5%O,90%W	0.85
252.00	GMOCW 15%G,20%O,45%W,20%M	3.53
504.00	GWMCO10%G,50%O,5%W,35%M	7.07

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

27-28s-26w Ford,KS
Heyen Trust #1-27
Job Ticket: 67832 **DST#: 3**
Test Start: 2021.12.13 @ 08:07:00

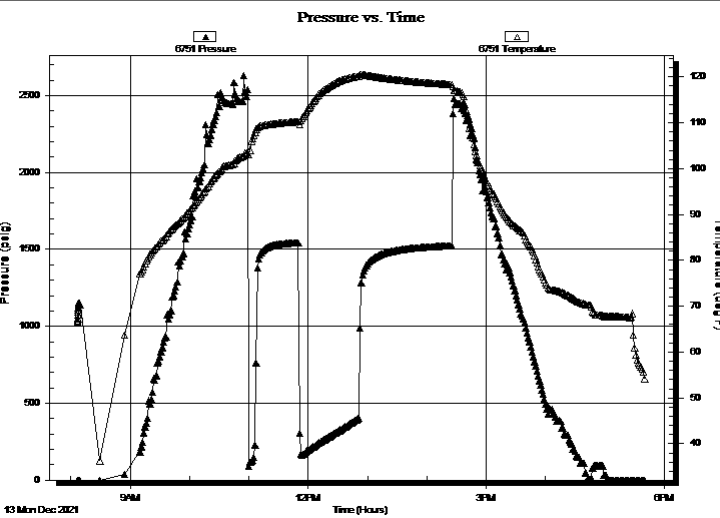
GENERAL INFORMATION:

Formation: **Miss.**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:59:47
 Time Test Ended: 17:40:47
 Interval: **5198.00 ft (KB) To 5270.00 ft (KB) (TVD)**
 Total Depth: 5270.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Chris Hagman
 Unit No: 69
 Reference Elevations: 2676.00 ft (KB)
 2666.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 6751

Press@RunDepth: psig @ ft (KB) Capacity: psig
 Start Date: 2021.12.13 End Date: 2021.12.13 Last Calib.: 1899.12.30
 Start Time: 08:07:01 End Time: 17:40:47 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: 5 min., BOB 3 min., strong building blow , 29 "
 IS: 45 min., No blow back
 FF: 60 min., BOB 2 min., strong building blow , 345"
 FS: 90 min., Blow back immediately, BOB 8 min., 33", GTS



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
173.00	GWMCO 5%G,5%O,90%W	0.85
252.00	GMOCW 15%G,20%O,45%W,20%M	3.53
504.00	GWMCO 10%G,50%O,5%W,35%M	7.07

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt, Inc.

27-28s-26w Ford,KS

PO Box 47
Great Bend, KS 67530

Heyen Trust #1-27

Job Ticket: 67832

DST#: 3

ATTN: Brad Rine

Test Start: 2021.12.13 @ 08:07:00

Tool Information

Drill Pipe:	Length: 5008.00 ft	Diameter: 3.80 inches	Volume: 70.25 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 173.00 ft	Diameter: 2.25 inches	Volume: 0.85 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 71.10 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 82000.00 lb
Depth to Top Packer:	5198.00 ft			Final 92000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	72.00 ft			
Tool Length:	98.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			5177.00	
Hydraulic tool	5.00			5182.00	
Jars	5.00			5187.00	
Safety Joint	2.00			5189.00	
Packer	5.00			5194.00	26.00 Bottom Of Top Packer
Packer	4.00			5198.00	
Stubb	1.00			5199.00	
Perforations	2.00			5201.00	
Recorder	0.00	8672	Inside	5201.00	
Recorder	0.00	6751	Outside	5201.00	
Perforations	32.00			5233.00	
Change Over Sub	1.00			5234.00	
Drill Pipe	32.00			5266.00	
Change Over Sub	1.00			5267.00	
Bullnose	3.00			5270.00	72.00 Bottom Packers & Anchor

Total Tool Length: 98.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc.

27-28s-26w Ford,KS

PO Box 47
Great Bend, KS 67530

Heyen Trust #1-27

Job Ticket: 67832

DST#: 3

ATTN: Brad Rine

Test Start: 2021.12.13 @ 08:07:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

48000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5050.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
173.00	GWMC0 5%G,5%O,90%W	0.851
252.00	GMOCW 15%G,20%O,45%W,20%M	3.535
504.00	GWMC010%G,50%O,5%W,35%M	7.070

Total Length: 929.00 ft Total Volume: 11.456 bbl

Num Fluid Samples: 0

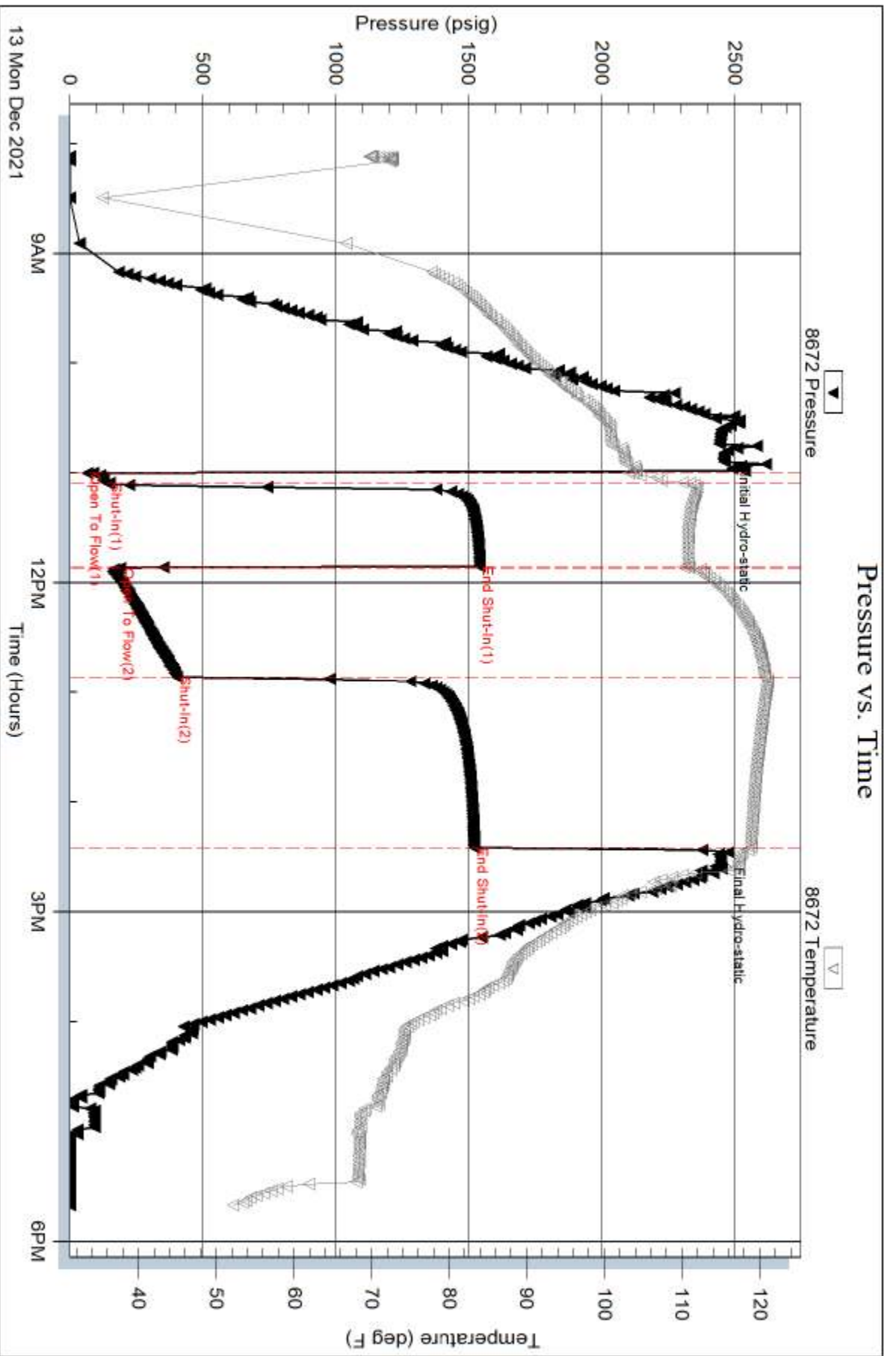
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW=.214@49F=48000ppm

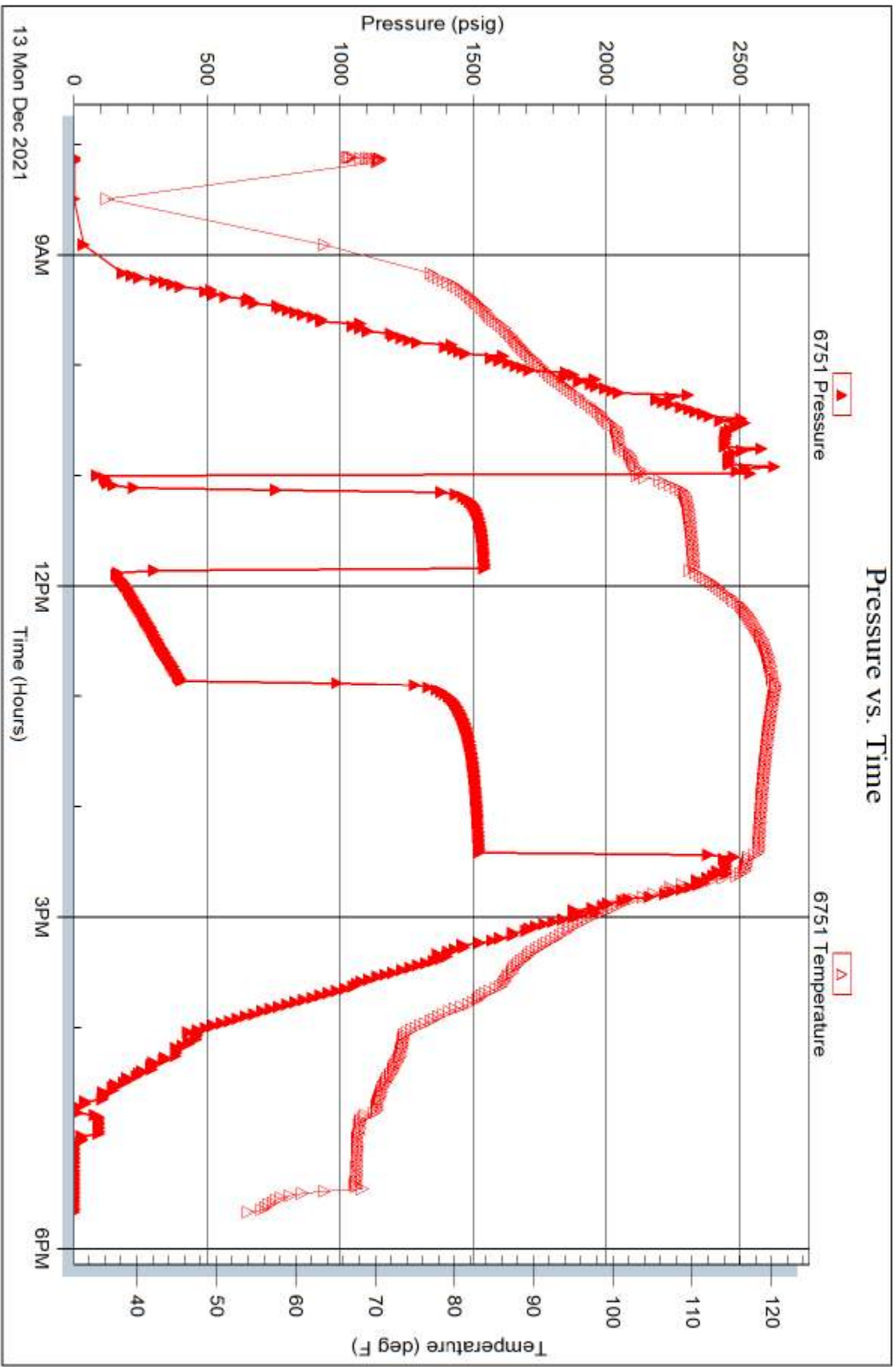


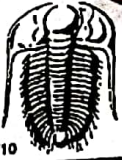
Serial #: 6751

Carmen Schmitt, Inc.

Heyen Trust #1-27

DST Test Number: 3





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 67830

Well Name & No. Heyen Trust 1-27 Test No. 1 Date 11-10-21
 Company Carmen Schmitt, Inc. Elevation 2666 KB 2676 GL
 Address P.O. Box 47 Great Bend, KS 67530
 Co. Rep / Geo. Brad Rine Rig Martin #114
 Location: Sec. 27 Twp 28 Rge. 26 Co. Ford State KS

Interval Tested 5001-5045 Zone Tested Paynee
 Anchor Length 44' Drill Pipe Run 4821 Mud Wt. 9.05
 Top Packer Depth 4996 Drill Collars Run 173 Vls 49
 Bottom Packer Depth 5001 Wt. Pipe Run N.A. WL 8.0
 Total Depth 5045 Chlorides 4,900 ppm System LCM 2[#]

Blow Description IF: 15 min, fair building blow 1.7 inches
IS: 45 min, No blow back
FF: 60 min, fair building blow 6.6 inches
FS: 90 min, No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>143</u>	<u>Feet of oily watery mud</u>	<u>2</u>	<u>2</u>	<u>96</u>	<u></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 143 BHT 110 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2364 Test CONV. 1550 T-On Location 2100
 (B) First Initial Flow 19 Jars 250 T-Started 2245
 (C) First Final Flow 40 Safety Joint 75 T-Open 0200
 (D) Initial Shut-In 1519 Circ Sub _____ T-Pulled 0530
 (E) Second Initial Flow 43 Hourly Standby _____ T-Out 0830
 (F) Second Final Flow 85 Mileage 180, Pratt 225 Comments bats on @ 2225
 (G) Final Shut-In 1493 Sampler _____
 (H) Final Hydrostatic 2343 Straddle _____ EM Tool _____
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Day Standby _____ Sub Total _____
 Accessibility _____ Total 2100
 Sub Total 2100 MP/DST Disc't _____

Initial Open 15
 Initial Shut-In 45
 Final Flow 60
 Final Shut-In 90

Approved By Brad Rine Our Representative Chris Hagran

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. 67831

Well Name & No. Hejzer Trust 1-27 Test No. 2 Date 12-12-21
 Company Carmen Schmitt, Inc Elevation 2676 KB 2666 GL
 Address P.O. BOX 47 Great Bend, KS 67530
 Co. Rep / Geo. Brad Rhee Rlg Murfin #114
 Location: Sec. 27 Twp 28 Rge. 26 Co. Ford State KS

Interval Tested 5141-5170 Zone Tested Aroka
 Anchor Length 29' Drill Pipe Run 4945 Mud Wt. 9.3
 Top Packer Depth 5136 Drill Collars Run 173 Vls 49
 Bottom Packer Depth 5141 Wt. Pipe Run N.A. WL 17.6
 Total Depth 5170 Chlorides 5050 ppm System LCM 2[#]
 Blow Description IF: 15 min., weak surface blow, .7 inches
ISL: 30 min., no blow back
FF: 10 min., weak surface blow, .1 inches, pulled tool

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 111 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm
 (A) Initial Hydrostatic 2431 Test conv. 1550 T-On Location 0300
 (B) First Initial Flow 19 Jars 250 T-Started 0800 w.o.R
 (C) First Final Flow 20 Safety Joint 75 T-Open 1025
 (D) Initial Shut-In 75 Circ Sub _____ T-Pulled 1130
 (E) Second Initial Flow 22 Hourly Standby _____ T-Out 1345
 (F) Second Final Flow 23 Mileage 180 225 Comments bats on @ ~~0800~~
 (G) Final Shut-In 25 Sampler _____ 0800
 (H) Final Hydrostatic 2383 Straddle _____ EM Tool _____
 Shale Packer x 1.0 250 Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Day Standby _____ Sub Total 0
 Accessibility _____ Total 2350
 Sub Total 2350 MP/DST Disc't _____

Approved By Brad Rhee Our Representative Chris Hagman
 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.



TRIBOLITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

NO. 67832

Well Name & No. Hagen Trust 1-27 Test No. 3 Date 12-13-27
 Company Carmen Schmitt, Inc. Elevation 2676 KB 2666 GL
 Address P.O. Box 47 Great Bend, KS 67530
 Co. Rep / Geo. Brad Rine Rig Murfin #114
 Location: Sec. 27 Twp 28 Rge. 26 Co. Ford State KS

Interval Tested 5198-5270 Zone Tested Miss.
 Anchor Length 72' Drill Pipe Run 5008 Mud Wt. 9.3
 Top Packer Depth 5193 Drill Collars Run 173 Vis 49
 Bottom Packer Depth 5198 Wt. Pipe Run N.A. WL 7.6
 Total Depth 5270 Chlorides 5050 ppm System LCM 2#

Blow Description IF: 5 min, BOB 3 min, strong building blow, 29 inches
IS: 45 min, No blow back
FE: 60 min, BOB 2 min, strong building blow, 345 inches
PS: 90 min, Blow back imm, BOB 8 min, 33 inches, GTS

Rec	Feet of	%gas	%oil	%water	%mud
<u>504</u>	<u>gassy watery muddy oil</u>	<u>10%</u>	<u>50%</u>	<u>5%</u>	<u>35%</u>
<u>252</u>	<u>gassy oily muddy water</u>	<u>15%</u>	<u>20%</u>	<u>45%</u>	<u>20%</u>
<u>173</u>	<u>gassy oily water</u>	<u>5%</u>	<u>5%</u>	<u>90%</u>	<u>%mud</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 929 BHT 119 Gravity API RW, 211 @ 49 °F Chlorides 48,000 ppm

(A) Initial Hydrostatic 2459 Test CONV. 1550 T-On Location 0700
 (B) First Initial Flow 67 Jars 250 T-Started 0830
 (C) First Final Flow 146 Safety Joint 75 T-Open 1100
 (D) Initial Shut-In 1543 Circ Sub _____ T-Pulled ~~1420~~ 1420
 (E) Second Initial Flow 190 Hourly Standby _____ T-Out ~~1730~~ 1730
 (F) Second Final Flow 404 Mileage 180 450 Comments lets on @ 0807
 (G) Final Shut-In 1524 Sampler _____ loaded tools 12/15 1:35
 (H) Final Hydrostatic 2441 Straddle _____ EM Tool _____
 Shale Packer X1.0 250 Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Day Standby 1d 8h Sub Total 800
 Accessibility _____ Total 3375
 Sub Total 2575 MP/DST Disc't _____

Approved By Brad Rine Our Representative Chris Hagan

Tribolite 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.



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

Well Name: Heyen Trust #1-27 - Carmen Schmitt, Inc.
API: 15-057-210620-00-00
Location: SE-NW-SE-NW, Section 27-28S-26W
License Number: KCC #6569
Spud Date: November 30, 2021
Surface Coordinates: 1679'FNL & 1729' FWL,
of Section
Bottom Hole Vertical Wellbore
Coordinates:
Ground Elevation (ft): 2666 Ft. K.B. Elevation (ft): 2674 Ft.
Logged Interval (ft): 4100 Ft. To: 5405 Ft. Total Depth (ft): RTD 5405 Ft. LTD 5402 Ft.
Formation: Mississippian at Total Depth
Type of Drilling Fluid: Chemical

Region: Ford County, Kansas
Drilling Completed: December 15, 2021
Results: Production Casing Set
Field: Wildcat

Printed by MudLog from WellSight Systems 1-800-447-1534 www.WellSight.com

Operator

Company: Carmen Schmitt, Inc.
Address: PO Box 47
Great Bend, Kansas 67530-0047

Geologist

Name: M. Bradford Rine
Company: Consulting Geologist, Kansas Lic. #204, Wyo #189, AAPG Cert. #2647
Address: 100 South Main, Suite #320A
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 "Heyen Trust #1-27", on December 15, 2021.

Respectfully,
M. Bradford Rine, geologist

Drilling Information

Rig: Murfin Rig #114
Pump: Ideco 550 7x15
Drawworks: DWM 650
Collars: 522' 2-1/4 x 6-1/4
Drillpipe: 4-1/2" 16.6# XH
Toolpusher: Paco Gonzalas

Mud: Muco (Justin Whiting)
Gas Detector: None
Drill Stem Tests: Trilobite (Chris Hagman)
Logs: Midwest (Dan Schmidt)
Water: Pond SE of location (Midwest Waterline)
Company Representatives:
Office: Carmen Schmitt
Field: Curtis Hitschmann

Daily Drilling Status

Date:	Operations/Depth/Comments
11-29-21	MIRT, RU @ 0'
11-30-21	Spud at 10:00 pm @ 0'
12-01-21	Work on Rig (pump) @ 243'
12-02-21	Setting Surface Casing @ 1234'
12-03-21	Drilling @ 3250'
12-04-21	Down for Repairs (pump) @ 3612'
12-05-21	Down for Repairs @ 3612'
12-06-21	Down for Repairs @ 3612'
12-07-21	Down for Repairs @ 3612'
12-08-21	Drilling @ 3900'
12-09-21	Circulating for Samples @ 4525'
12-10-21	Circulating to Condition Hole @ 4905'
12-11-21	Trip Out of Hole with DST #1 @ 5045'
12-12-21	Rig Down for Repairs (Drawworks) @ 5170'
12-13-21	Trip Out of hole for DST 3 @ 5270'
12-14-21	(DFR 8 hrs) Circulating to Condition Hole @ 5270'
12-15-21	Lay Down Drill Pipe @ 5405'

	Results: Oil			(Well A)	D&A	(Well B)	D&A		
	Carmen Schmitt, Inc.			Jabon Investments		Carmen Schmitt, Inc.			
	Heyen Trust #1-27			Foulks #1-25		David #1			
	1750'FNL & 1800' FWL			1920'FNL & 2460'FWL		610'FNL & 610'FWL			
	Sec. 27-28S-26W			Sec. 25-28S-26W		Sec. 26-28S-26W			
	KB 2674			KB 2662		KB 2690		Well A	Well B
Formations	Sample	E-Log	Datum	E-Log	Datum	E-Log	Datum	Comparison(s)	
Anhydrite	NC	1679	995	1650	1012	1686	1004	-17	-9
B/Anhydrite	NC	1734	940	1703	959	1740	950	-19	-10
Stotler	NC	3670	-996	3684	-1022	3687	-997	26	1
Heebner Sh	4343	4336	-1662	4358	-1696	4361	-1671	34	9
Toronto	4363	4358	-1684	4382	-1720	4380	-1690	36	6
Douglas Ls.	4416	4410	-1736	4432	-1770	4434	-1744	34	8
Brown Lime	4448	4445	-1771	4468	-1806	4469	-1779	35	8
Lansing	4462	4456	-1782	4478	-1816	4480	-1790	34	8
Muncie Creek Sh	4658	4649	-1975	4676	-2014	4675	-1985	39	10
Stark Sh.	4776	4770	-2096	4789	-2127	4789	-2099	31	3
Swope Ls.	4780	4777	-2103	4801	-2139	4793	-2103	36	0
Hushpuckney Sh.	4820	4814	-2140	4834	-2172	4830	-2140	32	0
B/Kansas City	4917	4908	-2234	4927	-2265	4930	-2240	31	6
Marmaton	4933	4928	-2254	4946	-2284	4956	-2266	30	12
Altamont	4943	4936	-2262	4957	-2295	4964	-2274	33	12
Pawnee	5014	5008	-2334	5030	-2368	5033	-2343	34	9
Ft. Scott	5064	5060	-2386	5079	-2417	5086	-2396	31	10
Cherokee Sh	5098	5090	-2416	5109	-2447	5116	-2426	31	10
Atoka	5175	5172	-2498	5187	-2525	5196	-2506	27	8
Morrow Sh.	5189	5183	-2509	5199	-2537	5205	-2515	28	6
Morrow Sd.	Abs	Abs		5204	-2542	5231	-2541		
Mississippi	5195	5190	-2516	5213	-2551	5238	-2548	35	32
Miss. "A"	5190	5190	-2516	5213	-2551	5238	-2548	35	32
Miss. "B"	5245	5240	-2566	5232	-2570	5252	-2562	4	-4
Total Depth	5405	5402	-2728	5416	-2754	5378	-2688	26	-40

Casing Record, Bit Record, Deviation Surveys

CASING:

Conductor: None

Surface: 8-5/8" 24# new csg. @ 1234'. (Copeland) Cement with 525 sx of 65/35 Poz, 6% gel, 03% CC. Plug down at 9:30 am. Cement did circulate. December 02, 2021.

Production: Ran 128 jts of 5-1/2" 15.50# casing, set @ 5395.3 ft. (Swift) Ran 500 gal mud flush, followed by 20 bbl KCL flush. Cemented with 175 sx common with additives at 15# per gal. Displaced with fresh water. Landed plug at 1800#, plug held. Job completed at 2:30 am, December 16, 2021.

BITS:

No.	Size	Make	Model	Depth In	Depth Out	Hours
1	12-1/4	Smith	Tooth	0'	1234'	16.00
2	7-7/8	Smith	M616	1234'	3612'	36.50
3	7-7/8	Smith	F27Y	3612'	5405'	79.25

DEVIATION SURVEYS:

Deviation:	Depth:	Deviation:	Depth:
1.00*	1234'	1.00*	5045'
0.75*	2786'	0.75*	5170'
1.00*	3612'	1.00*	5405'

PIPE STRAPS:

Difference:	Depth:
+1.90'	3612'
+21.0'	5191' (Found geolograph mechanical problems reset/corrected depth to 5170')

MUD UP:

Displace & Mudup @ 3580'

DST #1: 5001-5045 (Pawnee)

Times: 15-45-60-90

Initial Open: Wk Blow, built to 1.5" i.b.

Final Open: Mod Blow, built to 6.5" i.b.

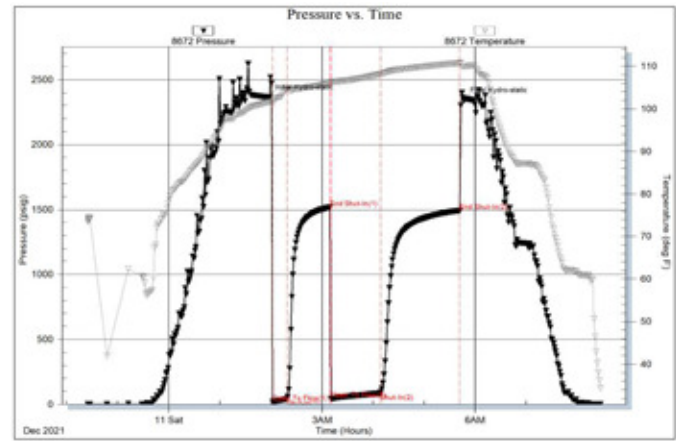
Rec: 143' SOCWM: 02%o 02%w 96%m

IHP: 2364 FHP: 2343

IFP: 19-40 FFP: 43-85

ISIP: 1519 FSIP: 1493

BHT: 110°F



DST #2: 5141-5170 (Cherokee Lm, Atoka Lm)

Times: 15-30-10-10

Initial Open: Weak Blow, built to 3/4" i.b.

Final Open: Weak surface blow

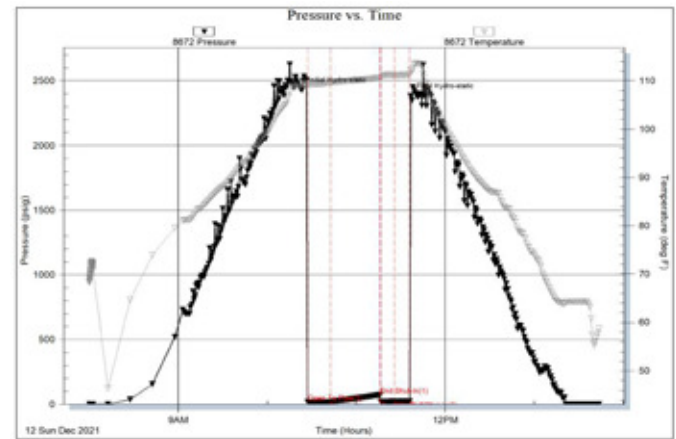
Rec: 5' mud

IHP: 2431 FHP: 2383

IFP: 19-20 FFP: 22-23

ISIP: 75 FSIP: 25

BHT: 111°F



DST #3: 5198-5270 (Mississippi)

Times: 05-45-60-90

Initial Open: Stg Blow, b.o.b. 3 min, built to 29 inches, No return blow

Final Open: Stg Blow, b.o.b. 2 min, built to 345 inches, Return blow built to 33", with gas to surface TSTM or capture sample

Rec: 929' Total Fluid, GTS on final shutin TSTM

504' GWMCO: 10%g 50%o 05%w 35%m

252' GOMCW: 15%g 20%o 45%w 20%m

173' SGOCW: 05%g 05%o 90%w

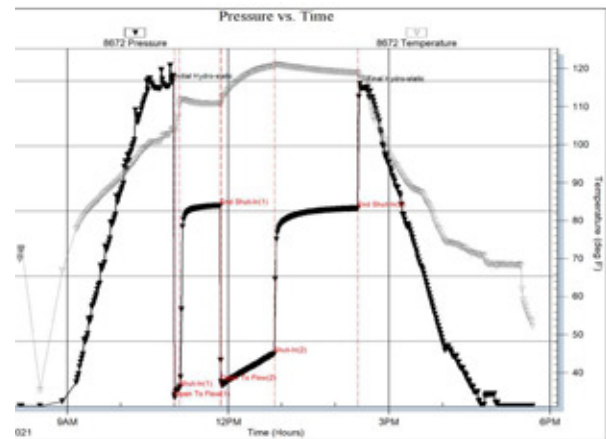
Chl/W: 48000 ppm, API oil: Too foamy to measure!

IHP: 2459 FHP: 2441

IFP: 67-146 FFP: 190-404

ISIP: 1543 FSIP: 1524

BHT: 119°F



Rock Types

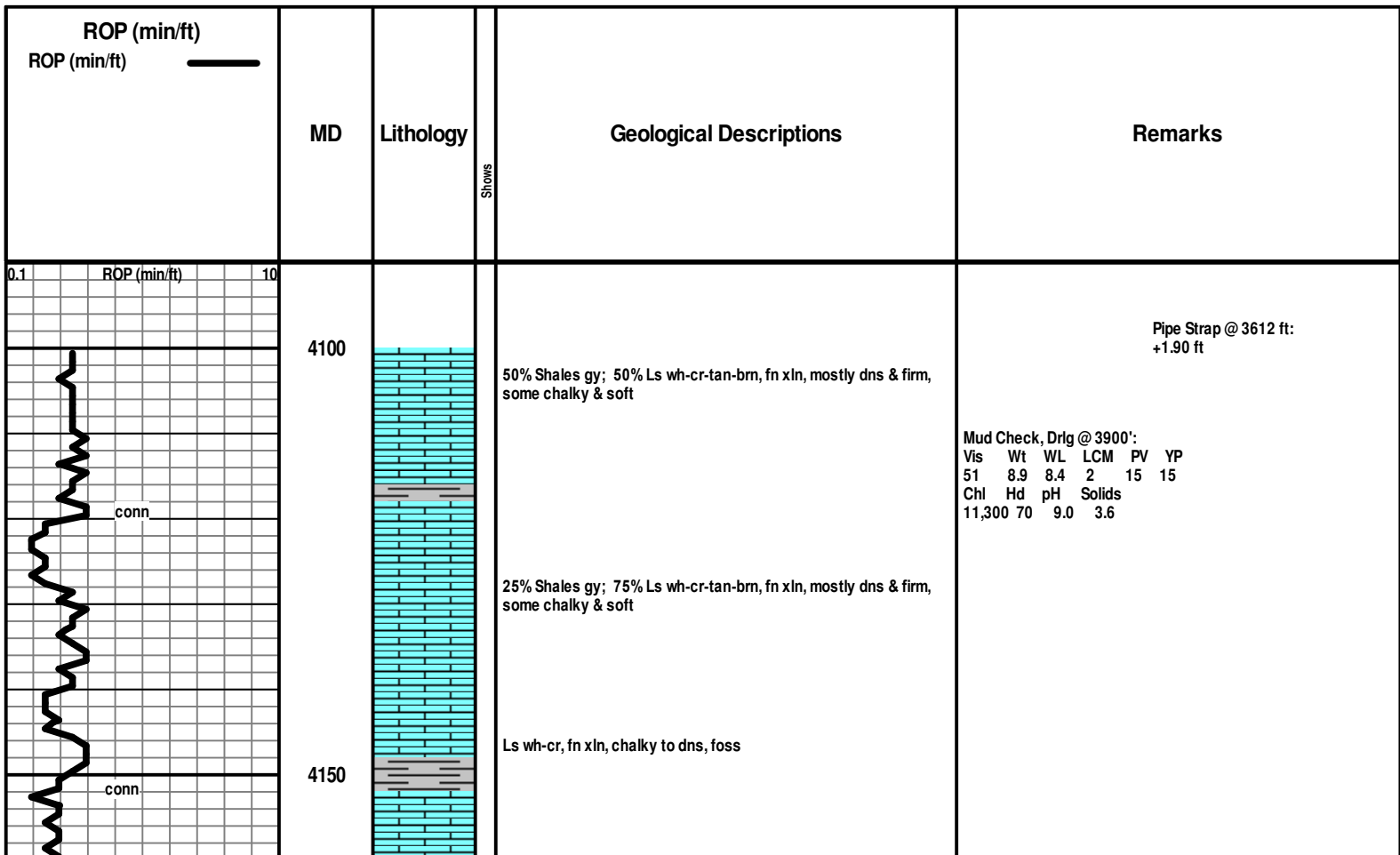
	Cgl/gran wash		Bent		Dol		Salt		Till
	Dol ls/lmy dol		Brec		Gyp		Shale		Siltysh
	New symbol		Cht		Igne		Shcol		Shlysiltst
	Dol ls/lmy dol		Clyst		Lmst		Shgy		Siltst
	New symbol		Blk sh/coal		Meta		Ss		Sandyls
	Anhy		Congl		Mrlst				

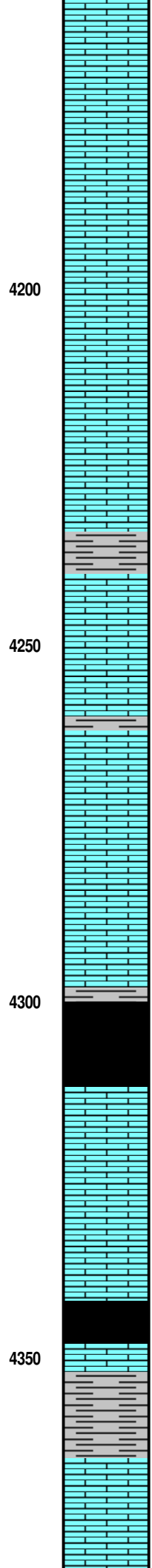
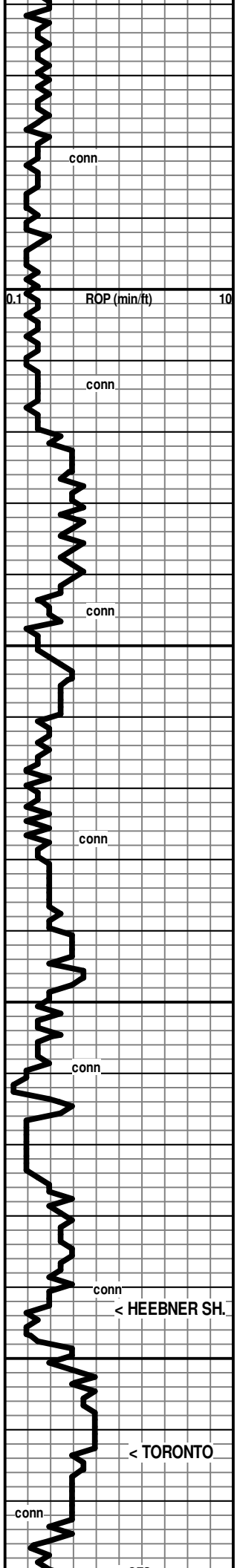
Accessories

MINERAL		Gyp	FOSSIL		Ostra		Siltstrg
	Anhy		Hvymin		Pelec		Ssstrg
	Arggrn		Kaol		Pellet	TEXTURE	
	Arg		Marl		Pisolite		Boundst
	Bent		Minxl		Plant		Chalky
	Bit		Nodule		Strom		Cryxln
	Brecfrag		Phos	STRINGER			Earthy
	Calc		Pyr		Anhy		Finexln
	Carb		Salt		Shale		Grainst
	Chtdk		Sandy		Bent		Lithogr
	Chtlt		Silt		Coal		Microxln
	Dol		Sil		Dol		Mudst
	Feldspar		Sulphur		Gyp		Packst
	Ferrpel		Tuff		Ls		Wackest
	Ferr				Mrst		
	Glau						

Other Symbols

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





Ls wh-cr-tan, fn xln, abund chalky & soft, some dns, abund foss (washes white)

Ls wh, fn xln, chalky soft to mushy (washes white)

30% Sh gy-dl gy; 70% Ls wh-cr-tan, fn xln, dns-pr vis xln por, foss, abund chalky, soft & mushy (washes white)

40% Sh gy-dl gy; 60% Ls wh-cr-tan, fn xln, dns-pr vis xln por, foss, abund chalky, soft & mushy (washes white)

40% Sh gy-dl gy; 60% Ls wh-cr-tan, fn xln, dns-pr vis xln por, foss, abund chalky, soft & mushy (washes white)

10% Sh gy-dl gy; 90% Ls wh-cr-tan, fn xln, dns-pr vis xln por, foss, abund chalky, soft & mushy (washes white)

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

Sh gy-dk gy-black, carb in pt

Ls wh-cr, fn xln, scatt xln por, micro-ool to ool in pt

Ls cr-tan, fn xln, dns, foss

← 4343 (-1669)
Sh black, carb

Ls cr-tan, fnxln, dns, foss

Sh gy-gmish

← 4363 (-1689)

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

Ls wh-cr, fn xln, pr xln por to chalky & soft

4200

4250

4300

4350

conn

ROP (min/ft)

conn

conn

conn

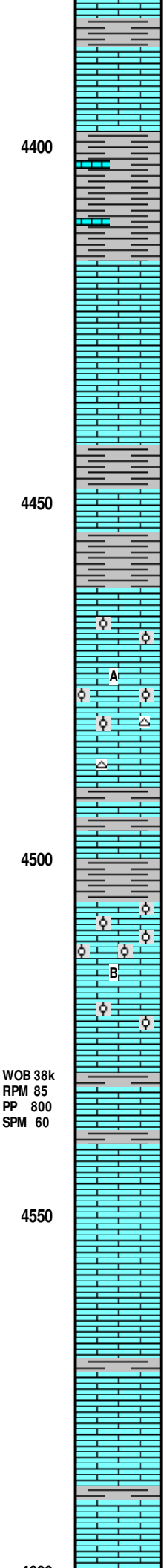
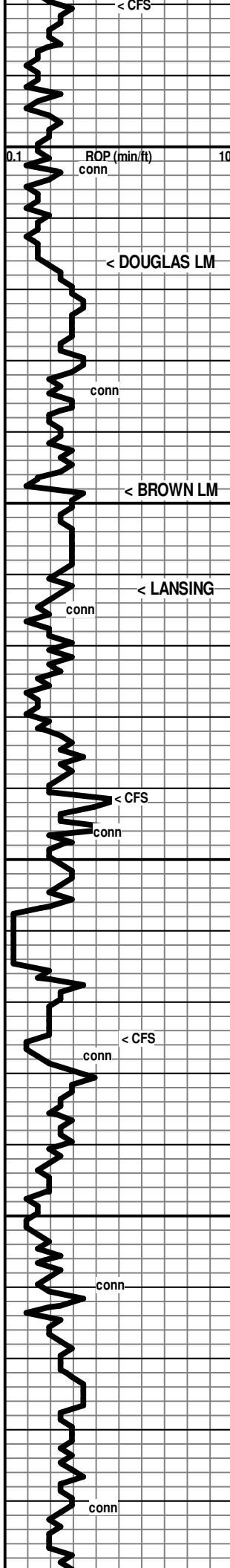
conn

conn

conn

< HEEBNER SH.

< TORONTO



Ls wh-cr, fn xln, pr vis xln por, chalky in pt, ool in pt, foss in pt (some weath'd to gy)

Sh gy-grnish; Ls wh-pl gy, fn xln, pr vis xln por, foss (weath'd to gy in pt)

← 4416 (-1742)

Ls wh-gy, fn-md xln, pr xln por to dns, abund foss (weath'd to gy in pt)

Sh gy-grnish

← 4448 (-1774)

Ls cr-tan, fn xln, dns

Sh gy-dk grn, soft to firm with silty stringers

← 4462 (-1788)

Ls wh-cr, subchalky in pt, pr xln por, widely scatt sm vugs, with scatt interool pores, ool in pt, foss

A

Ls wh-cr, fn xln, chalky to subchalky in pt, foss, ool in pt, chert: fresh, tan, subopaque

Ls cr-tan-gy, vfn-fn xln, mostly dns & hard, some chalky edges and pcs, foss; some gy-blk shale

Sh gy-dk gy-blk

Ls cr-tan-gy, fn xln, pr-fr xln por, scatt gd oom por, some interool pores, chalky in pt

B

[No Odor, low % pcs with dull fluor, NSO, NSG]

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

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

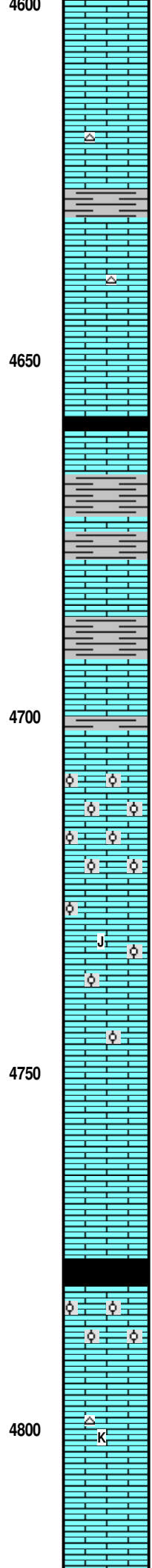
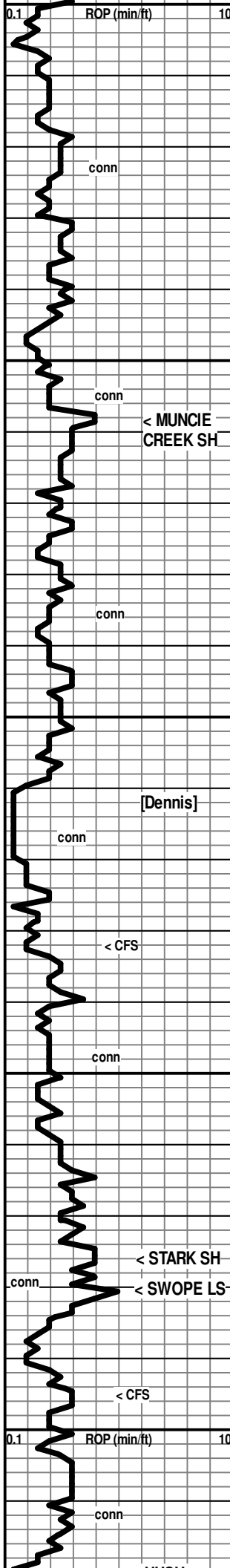
* [Roughneck claims a very faint odor detected at sample box while drilling at 4550' +/- . No odor, fluor, or shows observed in samples by geologist.]

Ls wh-cr-tan-gy, vfn-fn xln, mostly dns to pr xln por, mod am't chalky, foss, chert, fresh, gy, subopaq; Low % Shale gy-dk gy

Ls wh-cr-tan-gy, vfn-fn xln, mostly dns to pr xln por, mod am't chalky, foss, chert, fresh, gy-brn, subopaq; Low % Shale gy-dk gy

WOB 38k
RPM 85
PP 800
SPM 60

7:00 AM, December 09, 2021



Ls wh-cr-tan, fnxln, pr xln por, abund subchalky-chalky with reddish spotting of clay or organic debris, foss in pt; Some gy-dk gy shale

Ls wh-cr-tan, fnxln, pr xln por, abund subchalky-chalky with reddish spotting of clay or organic debris, foss in pt, some fresh gy-brn chert; Some gy-dk gy shale

Ls wh-cr, fn xln, mostly chalky with some pr vis xln por, foss

4650

<----- 4658 (-1984)
Sh black, carb
Low % of pcs dk gy-black shale, carb in pt; Ls cr-tan, vfn-fn xln, dns, sli foss
Sh dk gy

Low % Sh gy-grnsh, subslitly text in pt; Abund Ls wh-cr, fn xln, pr-fr xln por in pt, chalky & soft in pt, foss

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

4700

Sh gy

Ls cr-pl gy, fn xln, pr vis xln por, ool & oom with abund fr-gd oom por (zone well represented in spls)

[Dennis]

< CFS

Ls wh-cr-tan, fn xln, pr vis xln por, ool in pt, oom in pt, foss in pt

4750

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

<----- 4776 (-2102)
Sh black, carb
<----- 4780 (-2106)

Ls wh-cr, fn xln, abund chalky, mushy-soft, some ool ls with trace of weath'd ool in pr xln por matrix

< CFS

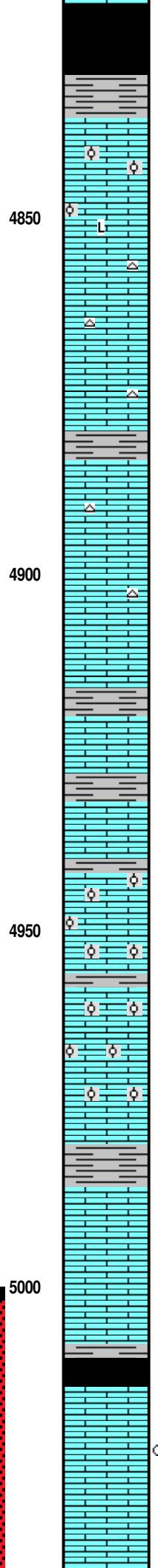
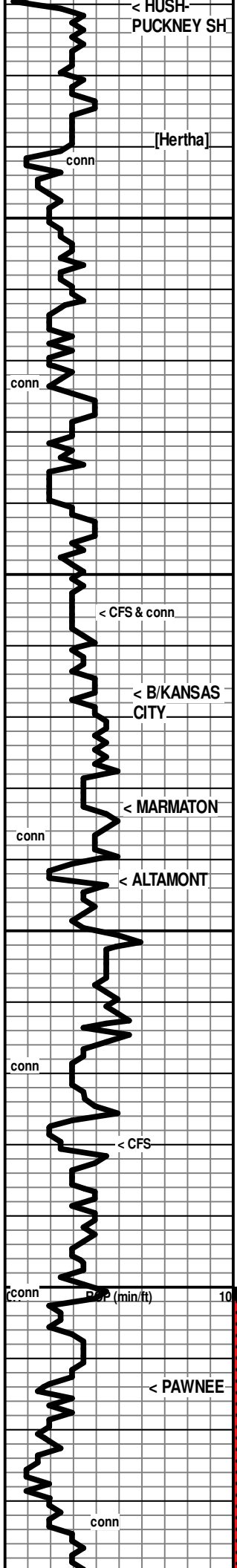
< STARK SH
< SWOPE LS

4800

Ls wh-cr-tan, vfn-fn xln, mostly dns, some chalky, foss in pt, chert, fresh, gy-tan, subtrans, spic; few pcs of grnsh gy shale

Mud Check, Drlg @ 4702':

Vis	Wt	WL	LCM	PV	YP
49	9.05	8.0	2	13	14
Chl	Hd	pH	Solids		
4900	20	10.0	4.7		



4820 (-2146)
 Sh black, carb

4850
 Ls wh-cr-tan, fn xln, mostly dns to pr xln por, chalky in pt, foss in pt, ool in pt (foss/ool weath'd to gy), chert: fresh, tan, subtransl, foss

Ls cr-tan-brn, vfn-fn xln, dns, foss, chert: dk brn-dk gy, fresh, subopaq, scatt foss

Sh gy-grnish gy

Ls cr-tan, vfn-fn xln, pr xln por to dns, chert, fresh, brn, subopaq

4900
 Ls wh-cr-tan, vfn-fn xln, dns & firm to soft & chalky, abund chert: fresh, cr-gy, foss, subtransl

< CFS & conn

Ls cr-tan, vfn-fn xln, dns with white chalky edges & pcs, foss in pt

< B/KANSAS CITY
 4917 (-2243)
 Ls cr-tan, vfn-fn xln, dns with white chalky edges & pcs, foss in pt

Sh gy-grn, subsilty in pt

< MARMATON
 4933 (-2259)

< ALTAMONT
 4943 (-2269)
 Ls wh-cr, fnxln, pr vis xln por to dns, mod am't of ool pcs with dns to pr xln cement (ool md-crs), some dolom ls

4950
 Ls mix of cr-tan-brn, vfn xln, dns & hard, sli foss in pt; and, wh-cr, ool pcs, chalky in pt; Sh dk gy-grnish

Ls mix of cr-tan-brn, vfn xln, dns & hard, sli foss in pt; and, wh-cr, ool pcs, chalky in pt

Ls mix of: wh-cr-tan-brn, fn xln, some dolom pcs with pr vis xln por, some white chalky, some ool with pr interool por,

Ls mix of: wh-cr-tan, fn xln, abund white chalky & mushy, some ool with pr interool por,

< CFS
 Sh gy-grnish

Ls wh-cr, fn xln, abund chalky, soft-mushy, ool in pt, some pr xln por ls

< PAWNEE
 5014 (-2340)
 Sh gy-dk gy-black, carb in pt

Ls wh-cr, fn xln, abund chalky & soft to mushy, mostly pr xln por with widely scatt patches of calcite with improved xln por, scatt Rr pp pores, chert: fresh, wh-cr, transl-subtransl-subopaque

[Mild Odor, scatt brt patchy & spotty fluor, trace shows of colorless micro-drops of FO on crush-mostly vis under blk light, Rr trace show of gas bubbles on crush]

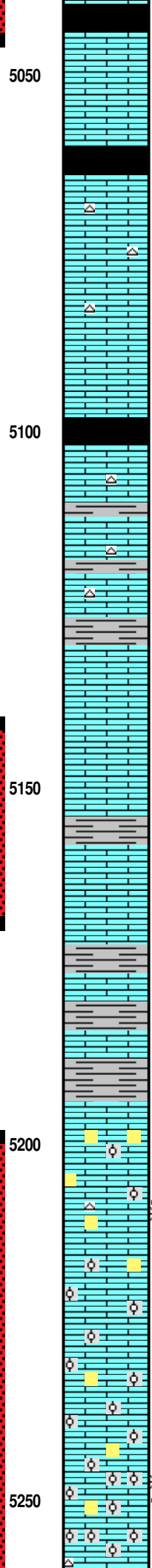
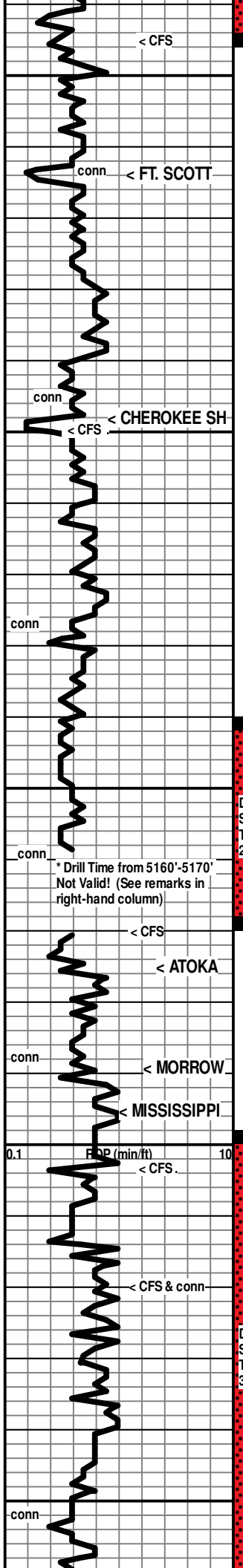
4905 ft: Wiper Run to condition hole for anticipated DSTs below.
 Pulled into surface casing with bit!

7:00 AM, December 10, 20201

Mud Check, Drlg @ 4906':

Vis	Wt	WL	LCM	PV	YP
49	9.2	7.2	2.5	16	14
Chl	Hd	pH	Solids		
4800	20	10.5	6.1		

DST #1: 5001-5045 (Pawnee)
 Times: 15-45-60-90
 Initial Open: Wk Blow, built to 1.5" i.b.
 Final Open: Mod Blow, built to 6.5" i.b.
 Rec: 143' SOCWM: 02%O 02%w 96%m
 IHP: 2364 FHP: 2343
 IFP: 19-40 FFP: 43-85
 ISIP: 1519 FSIP: 1493
 BHT: 110°F



Sh black, carb

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

Sh black, carb

← 5064 (-2390)

Ls cr-tan, vfn-fn xln, dns, foss, chert: fresh, tan, transl, spiculitic

[A few pcs with spots of dull fluor. Mineral fluor? No Odor, NSO, NSG]

Ls wh-cr-tan-brn-gy, vfn-fn xln, mostly dns & firm, some subchalky to chalky pcs & edges, foss, cherty; mod am't dk gy to blk shale in spls

Ls cr-tan, vfn-fn xln, dns, foss, some ool pcs and very Rr scatt ooms, (ool & oom sm) (well-cem)

← 5098 (-2424)

Sh black, carb

40% Sh dk av-black, carb in pt: 60% Ls wh-cr-tan, vfn-fn xln, Ls wh-cr, vfn-fn xln, subchalky in pt, dns in pt, sli foss in pt; fresh, brn, ool, transl

Ls cr-tan-gy, vfn xln, dns, some dolom & dns, abundn dk gy-blk shales in spls

Ls cr-tan, vfn xln, dns, chert: fresh, tan, transl, foss in pt; abundn dk gy-blk shales in spls

Ls wh-cr-tan, vfn-fn xln, abund chalky, mostly dns, foss; some dk shale in spls

*5180' spl: 90% Ls wh-cr-tan, vfn-fn xln, dns in pt, chalky in pt, foss in pt; 10% gy shales

*5190' spl: 90% Ls wh-cr-tan, vfn-fn xln, dns in pt, chalky in pt, foss in pt, Rr ool pcs, trace of fresh chert; 10% gy shales

5170' 20-min CFS spl: 95% Ls wh-cr-tan, vfn-fn xln, dns in pt, chalky in pt, foss in pt, trace of fresh chert; 05% gy-blk shales Show Description ----->

5170' 40-min spl: 95% Ls wh-cr,fn xln, pr vis xln por, sli foss in pt, sli cherty, fresh; 05% gy shale (No Sand!)

5170' 60-min spl: 95% Ls wh-cr,fn xln, pr vis xln por, sli foss in pt, sli cherty, fresh; 05% gy shale

[No Odor, Rr dull fluor, Low % pcs with trace show of gas bubbles on crush, NSO]

5190' spl: 90% Ls wh-cr-tan, vfn-fn xln, dns, with some softer and chalky pcs, sli foss in pt; 10% gy-grnsh shale, silty in pt

← 5195 (-2521)

5200' spl: 90% Ls wh-cr-tan, vfn-fn xln, mostly dns, some chalky softer pcs, foss, few pcs micro-ool in dns-chalky cement; 10% Sh gy-grnsh-blk, silty in pt

5203' CFS: 90% Ls mostly wh-cr, vfn-fn xln, Mostly dns & firm, some softer & chalky, sdy in great pt with vfn grn sd, ool in pt, scatt glauc specks

Ls mostly wh-cr, fn xln, mostly dns, some chalky, abund sdy, abund ool (cem), some dns, subvitreous text tan Ls

Ls wh-cr, fn xln, sdy in pt, abund loosely packed ool with exc fri, pr vis xln por, some loose ool in spls, Rr glauc specks

[No Odor, Low % pcs with scatt dull patchy fluor, NSO, NSG]

Ls wh-cr-gy,fn xln, mostly friable loose packed ool in soft cement with scatt interool pores, some loose ool, sdy in pt, few pcs dns & firm; 20% shales gy-dk gy

[Fnt Odor, Scatt patchy moderate fluor, few pcs per tray with show of gas on crush, found a few pcs with v. sli shows of colorless to lt brn FO]

Mud Check, Drlg @ 5116':

Vis	Wt	WL	LCM	PV	YP
56	9.1	8.0	2	16	17
Chl	Hd	pH	Solids		
4200	50	10.0	5.5		

Mud Check, DST2 @ 5170':

Vis	Wt	WL	LCM	PV	YP
49	9.3	7.6	2	16	15
Chl	Hd	pH	Solids		
5050	40	10.0	6.8		

* After connection at 5159 ft, it was later discovered at 5191 ft that the geograph line was hung up and penetration rate and depths became wrong. Pipe was strapped and a new TD was corrected to 5170 ft. Drill time below 5159' was considered in error and was deleted down to new depth of 5170'!

* Some depths for samples were corrected on report to honor Pipe Strap!

* Original drill time was determined not valid due to geolograph problem. See above remarks!

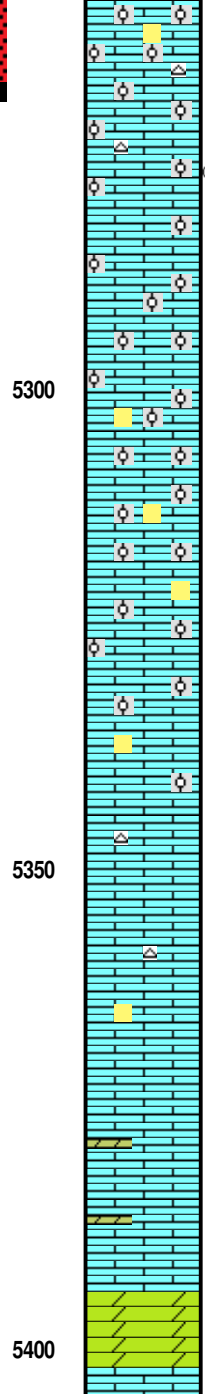
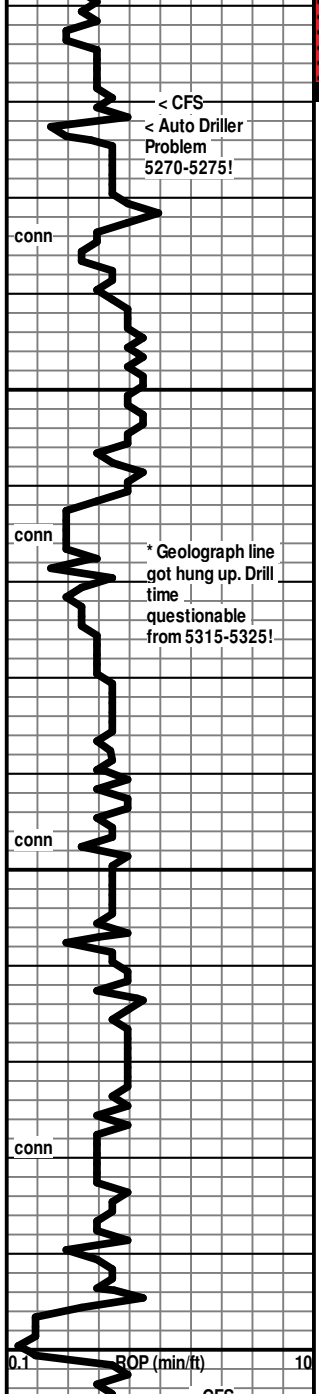
[5170' 40&60-min spls: Mod Odor, Mod am't of pcs of Ls with brt speck'd-patchy-even fluor, gassy with trace shows of colorless micro-drops of FO on crush]

DST #2: 5141-5170 (Cherokee Lm, Atoka Lm)

Times: 15-30-10-10
 Initial Open: Weak Blow, built to 3/4" i.b.
 Final Open: Weak surface blow
 Rec: 5' mud
 IHP: 2431 FHP: 2383
 IFP: 19-20 FFP: 22-23
 ISIP: 75 FSIP: 25
 BHT: 111°F

DST #3: 5198-5270 (Mississippi)

Times: 05-45-60-90
 Initial Open: Stg Blow, b.o.b. 3 min, built to 29 inches, No return blow
 Final Open: Stg Blow, b.o.b. 2 min, built to 345 inches, Return blow built to 33-inches, with gas to surface too small to measure or capture sample
 Rec: 929' Total Fluid, GTS on final shutin TSTM
 504' GWMCO: 10%g 50%o 05%w 35%w
 252' GOMCW: 15%g 20%o 45%w 20%w
 173' SGOCW: 05%g 05%o 90%w
 Chl/W: 48000 ppm, API oil: Too foamy to measure!
 IHP: 2459 FHP: 2441
 IFP: 67-146 FFP: 190-404
 ISIP: 1543 FSIP: 1524
 BHT: 119°F



5270' sps: 50% Shales gy-dk gy-bk-grm; 50% Ls wh-cr-gy, fn xln, dns in pt with Rr pores, abund ool-loosely cem to well cem., sdy in pt, trace of chert: fresh, wh-gy, opa

[Fnt Odor, mod am't of mod-brt patchy fluor, sli shows of gas on crush, trace-v. sli shows of colorless & v. lt tan FO on crush in a few pcs]
 * 5280' spl: as above, with rocks and shows
 Ls wh-cr, fn xln, pr xln por, chalky in pt, abund ool (md-crs) with scatt interool pores, chert: fresh, tan-gy, ool, opa; 05% Shales

[V Fnt Odor, few pcs per tray with brt fluor edges]
 Ls wh-cr, fn xln, pr xln por, chalky in pt, abund ool (md-crs) with scatt interool pores, chert: fresh, tan-gy, ool, opa; 05% Shales (NS in 5300' spl)

* Samples continue to carry faint odor from 5270-5350. Oil and gas in mud after DST3?
 Ls wh-cr, fn xln, pr xln por, chalky in pt, abund ool (md-crs) with scatt interool pores; abund sdy; 01% Shale

Ls wh-cr, fn xln, pr xln por, chalky in pt, abund ool (md-crs) with scatt interool pores, less sdy than above; 01% Shale

Ls wh-cr, more chalky than above, less sdy than above, ool in pt (fn-md grains); 60% Shales gy-grm

5350': Ls wh-cr, ool in pt, sdy in pt; * (Spl 85% Shales gy-grm)

5360' spl: Ls wh-cr-tan, fn xln, chalky in pt, dns & firm in pt, fewer pcs ool and sdy; (80% shale gy-grmish)

5370' spl: Ls wh-cr-tan, vfn-fn xln, mix of dns & firm, and, softer & chalky, foss in pt, chert: fresh wh-cr, subop-subtransl, foss; (spl 05% shales)

5380' spl: Ls wh-cr-tan, vfn-fn xln, mix of dns & firm, and softer & chalky, sdy in pt, foss in pt, chert: fresh wh-cr, subop-subtransl, foss; (spl 02% shales)

5390' & 5400' spls: Ls wh-cr-tan, vfn-fn xln, mix of mostly dns & firm with some chalky, some sli dolom text, sli foss in pt, increased chert: fresh wh-cr-tan, subop-subtransl-transl, foss; (Tr of shales)

Dol wh-cr-pl gy, v fn-fn xln, silty-sucrosic text, pr-fr vis xln por, pr-fr-gd crush, chalky in pt, the dol has dull-mod. mineral fluor

[No Odor over background odor, No fluor over mineral fluor, NSO, A couple of pieces per tray with a bubble or two on crush-gas or crush induced?]

Ls wh-cr, fn xln, chalky in pt, dns in pt, ool/pseudo ool in pt

7:00 AM, December 13, 2021
 7:00 AM, December 14, 2021

Mud Check, TOOH/DST3 @ 5270':

Vis	Wt	WL	LCM	PV	YP
47	9.2	9.2	2	15	14

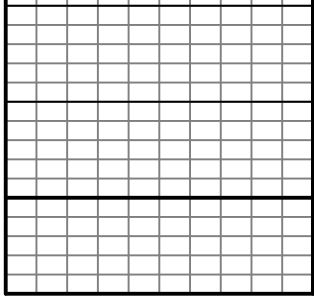
Chl Hd pH Solids
 4700 50 10.5 6.1

Mud Check, TOOH/DST3 @ 5281':

Vis	Wt	WL	LCM	PV	YP
56	9.1	8.8	2	19	17

Chl Hd pH Solids
 5800 12 9.5 5.4

* Down for Repairs
 appr 8 hrs after DST #3
 @ 5270'!



5500

