

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

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

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

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

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

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

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

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

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

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

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

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

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

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

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

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

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

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

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

Plug Back  Liner  Conv. to GSW  Conv. to Producer

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

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

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

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

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

Spud Date or Date Reached TD Completion Date or Recompletion Date

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

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

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

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

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

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

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

Datum:  NAD27  NAD83  WGS84

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

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

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

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

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

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

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

Multiple Stage Cementing Collar Used?  Yes  No

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

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

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

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

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

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

Location of fluid disposal if hauled offsite:

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

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

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

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

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

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

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

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

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

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

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

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

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

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
--	---

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
---	---	------------------------------------

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	Carmen Schmitt, Inc.
Well Name	SUNRAY 1-28
Doc ID	1576038

All Electric Logs Run

Sonic
Dual Induction
Porosity
Micro

Form	ACO1 - Well Completion
Operator	Carmen Schmitt, Inc.
Well Name	SUNRAY 1-28
Doc ID	1576038

Tops

Name	Top	Datum
Stone Corral	2682	1087
Topeka	3858	-89
Heebner	4101	-332
Toronto	4128	-359
Lansing	4157	-388
B/ KC	4558	-789
Marmaton	4573	-804
Cherokee	4754	-985
Morrow	4970	-1201
Keyes Lst	5070	-1301
Mississippi	5092	-1323



# 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:  
**C60328-IN**

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

**LEASE: SUNRAY 1-28 NEW WELL**

DATE	ORDER	SALESMAN	ORDER DATE	PURCHASE ORDER	SPECIAL INSTRUCTIONS	
05/31/2021	60328		05/28/2021	SUNRAY 1-28 NEW WELL	NET 30	
QUANTITY	U/M	ITEM NO./DESCRIPTION		D/C	PRICE	EXTENSION
		NEW WELL				
80.00	MI	MILEAGE CEMENT PUMP TRUCK		20.00	4.00	256.00
1.00	EA	PUMP CHARGE SURFACE		20.00	1,100.00	880.00
6.00	HR	ADDITIONAL HOURS		20.00	100.00	480.00
250.00	SK	60/40 POZ MIX 2% GEL		20.00	11.25	2,250.00
14.00	SK	CALCIUM CHLORIDE		20.00	40.00	448.00
264.00	EA	BULK CHARGE		20.00	1.25	264.00
929.28	MI	BULK TRUCK - TON MILES		20.00	1.10	817.77
		<i>7/10/43</i> <i>19891.0128</i> <i>BCP Well-Ale</i> <i>Surface Cement</i>				
<b>REMIT TO:</b> P.O. BOX 438 HAYSVILLE, KS 67060		COP		Net Invoice:		5,395.77
		FUEL SURCHARGE IS NOT TAXABLE AND IS ADDED TO MILEAGE, PUMP AND OR DELIVERY CHARGES ONLY.		GRLCO Sales Tax:		238.35
<b>RECEIVED BY</b>		<b>NET 30 DAYS</b>		<b>Invoice Total:</b>		<b>5,634.12</b>

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



NEW WELL

FIELD ORDER N° C 60328

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

DATE 28-May 20 21

IS AUTHORIZED BY: CARMEN SCHMITT (NAME OF CUSTOMER)

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

TO TREAT WELL AS FOLLOWS Lease SUNRAY Well No. 1-28 Customer Order No. \_\_\_\_\_

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

CONDITIONS: As a part of the consideration hereof it is agreed that Copeland Acid 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
20.0002	80	Mileage P.T.	\$4.00	\$320.00
20.0005	1	Pump Charge Surface	\$1,100.00	\$1,100.00
20.001	6	Add. Hrs. per hour	\$100.00	\$600.00
20.1002	250	60/40 Poz 2% Gel	\$11.25	\$2,812.50
20.1012	14	Calcium Chloride per 50 lb.	\$40.00	\$560.00
20.0011	264	Bulk Charge	\$1.25	\$330.00
20.0012	929.28	Bulk Truck Miles	\$1.10	\$1,022.21
		Process License Fee on	Gallons	
TOTAL BILLING				\$6,744.71

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. \$ 5,345.77

Copeland Representative GREG C.

Station GB MATT SUCHY  
Well Owner, Operator or Agent

Remarks \_\_\_\_\_

**NET 30 DAYS**



TREATMENT REPORT

Acid Stage No. \_\_\_\_\_

Date 5/28/2021 District GB F.O. No. C60328  
 Company CARMEN SCHMITT  
 Well Name & No. SUNRAY 1-28  
 Location \_\_\_\_\_ Field \_\_\_\_\_  
 County GREELEY State KS

Type Treatment: Amt. Type Fluid Sand Size Pounds of Sand  
 Bkdown \_\_\_\_\_ Bbl./Gal. \_\_\_\_\_  
 \_\_\_\_\_ Bbl./Gal. \_\_\_\_\_  
 \_\_\_\_\_ Bbl./Gal. \_\_\_\_\_  
 \_\_\_\_\_ Bbl./Gal. \_\_\_\_\_  
 Flush \_\_\_\_\_ Bbl./Gal. \_\_\_\_\_

Casing: Size 8 5/8 Type & Wt. \_\_\_\_\_ Set at \_\_\_\_\_ ft.  
 Formation: \_\_\_\_\_ Perf. \_\_\_\_\_ to \_\_\_\_\_  
 Formation: \_\_\_\_\_ Perf. \_\_\_\_\_ to \_\_\_\_\_  
 Formation: \_\_\_\_\_ Perf. \_\_\_\_\_ to \_\_\_\_\_  
 Liner: Size \_\_\_\_\_ Type & Wt. \_\_\_\_\_ Top at \_\_\_\_\_ ft. Bottom at \_\_\_\_\_ ft.  
 Cemented:  Yes  No Perforated from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 Tubing: Size & Wt. \_\_\_\_\_ Swung at \_\_\_\_\_ ft.  
 Perforated from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Treated from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. No. ft. 0  
 from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. No. ft. 0  
 from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. No. ft. 0

Actual Volume of Oil / Water to Load Hole: \_\_\_\_\_ Bbl./Gal.

Pump Trucks. No. Used: Std. 320 Sp. \_\_\_\_\_ Twin \_\_\_\_\_  
 Auxiliary Equipment 327  
 Personnel GREG CLARENCE  
 Auxiliary Tools \_\_\_\_\_

Open Hole Size \_\_\_\_\_ T.D. \_\_\_\_\_ ft. P.B. to \_\_\_\_\_ ft.

Plugging or Sealing Materials: Type \_\_\_\_\_  
 \_\_\_\_\_ Gals. \_\_\_\_\_ lb.

Company Representative MATT SUCHY Treater GREG C.

TIME a.m./p.m.	PRESSURES		Total Fluid Pumped	REMARKS
	Tubing	Casing		
10:15				ON LOCATION 5/27/2021
				DRILL PIPE GOT STUCK @ APPROX 240' @ 1:30 AM.
3:00				LEFT LOCATION @ 3:00 AM
9:00				ON LOCATION 5/28/2021
				DRILL PIPE IS FREE, SHORT TRIP AND CIRCULATE
				START RUNNING 8 5/8 @ 1:00 PM
				PUMP 250 SKS 60/40 2% GEL 3% CC
				DISPLACE WITH 18 BBLs H2O
				CEMENT CIRCULATED TO SURFACE
2:30				JOB COMPLETE 2:30 PM
				THANK YOU!!!



# 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:  
**C60330-IN**

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

**LEASE: SUNRAY 1-28 NEW WELL**

DATE	ORDER	SALESMAN	ORDER DATE	PURCHASE ORDER	SPECIAL INSTRUCTIONS	
06/14/2021	60330		06/08/2021	SUNRAY 1-28 NEW WELL	NET 30	
QUANTITY	U/M	ITEM NO./DESCRIPTION		D/C	PRICE	EXTENSION
		<b>NEW WELL</b>				
80.00	MI	MILEAGE CEMENT PUMP TRUCK		20.00	4.00	256.00
1.00	EA	PUMP CHARGE ROTARY PLUG		20.00	1,100.00	880.00
280.00	SK	60/40 POZ MIX 2% GEL		20.00	11.25	2,520.00
5.00	SK	2% ADDITIONAL GEL		20.00	24.00	96.00
70.00	LB	CELLO-FLAKES		20.00	3.00	168.00
288.00	EA	BULK CHARGE		20.00	1.25	288.00
1,013.76	MI	BULK TRUCK - TON MILES		20.00	1.10	892.11
		<i>7/10/43</i> <i>19891.0128</i> <i>BCP Well A/c</i> <i>Surface Cement</i>				
<b>REMIT TO:</b> P.O. BOX 438 HAYSVILLE, KS 67060		<b>COP</b>		Net Invoice: 5,100.11		
		FUEL SURCHARGE IS NOT TAXABLE AND IS ADDED TO MILEAGE, PUMP AND OR DELIVERY CHARGES ONLY.		GRLCO Sales Tax: 196.20		
<b>RECEIVED BY</b> _____		<b>NET 30 DAYS</b>		Invoice Total: <u><u>5,296.31</u></u>		

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

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

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



**NEW OIL WELL**

FIELD  
ORDER

Nº C \_\_\_\_\_

60330

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

DATE 8-Jun 20 21

IS AUTHORIZED BY: CARMEN SCHMITT (NAME OF CUSTOMER)

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

TO TREAT WELL AS FOLLOWS Lease SUNRAY Well No. 1 - 28 Customer Order No. \_\_\_\_\_

Sec. Twp. Range 28-19S-41W County GREELEY State KS

CONDITIONS: As a part of the consideration hereof it is agreed that Copeland Acid 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
20.0002	80	Mileage P.T.	\$4.00	\$320.00
20.0006	1	Pump Charge Rotary Plug	\$1,100.00	\$1,100.00
20.1002	280	60/40 Poz 2% Gel	\$11.25	\$3,150.00
20.1004	5	Add. Gel after 2% Per Sack	\$24.00	\$120.00
20.1013	70	Celloflake per lb.	\$3.00	\$210.00
20.0011	288	Bulk Charge	\$1.25	\$360.00
20.0012	1013.76	Bulk Truck Miles	\$1.10	\$1,115.14
		Process License Fee on Gallons		
		<b>TOTAL BILLING</b>		<b>\$6,375.14</b>

I certify that the above material has been accepted and used; that the above service was performed in a good and workmanlike manner under the direction, supervision and control of the owner, operator or his agent, whose signature appears below. **\$5,100.11**

Copeland Representative GREG C.

Station GB MATT SUCHY  
Well Owner, Operator or Agent

Remarks \_\_\_\_\_

**NET 30 DAYS**



TREATMENT REPORT

Acid Stage No. \_\_\_\_\_

Date 6/8/2021 District GB F.O. No. C60330  
 Company CARMEN SCHMITT  
 Well Name & No. SUNRAY 1-28  
 Location \_\_\_\_\_ Field \_\_\_\_\_  
 County GREELEY State KS

Type Treatment: Amt. Type Fluid Sand Size Pounds of Sand  
 Bkdown \_\_\_\_\_ Bbl./Gal. \_\_\_\_\_  
 \_\_\_\_\_ Bbl./Gal. \_\_\_\_\_  
 \_\_\_\_\_ Bbl./Gal. \_\_\_\_\_  
 \_\_\_\_\_ Bbl./Gal. \_\_\_\_\_  
 Flush \_\_\_\_\_ Bbl./Gal. \_\_\_\_\_

Casing: Size \_\_\_\_\_ Type & Wt. \_\_\_\_\_ Set at \_\_\_\_\_ ft.  
 Formation: \_\_\_\_\_ Perf. \_\_\_\_\_ to \_\_\_\_\_  
 Formation: \_\_\_\_\_ Perf. \_\_\_\_\_ to \_\_\_\_\_  
 Formation: \_\_\_\_\_ Perf. \_\_\_\_\_ to \_\_\_\_\_  
 Liner: Size \_\_\_\_\_ Type & Wt. \_\_\_\_\_ Top at \_\_\_\_\_ ft. Bottom at \_\_\_\_\_ ft.  
 Cemented:  Perforated from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 Tubing: Size & Wt. \_\_\_\_\_ Swung at \_\_\_\_\_ ft.  
 Perforated from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Treated from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. No. ft. 0  
 from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. No. ft. 0  
 from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. No. ft. 0

Actual Volume of Oil / Water to Load Hole: \_\_\_\_\_ Bbl./Gal.

Pump Trucks No. Used: Std. 320 Sp. \_\_\_\_\_ Twin \_\_\_\_\_  
 Auxiliary Equipment 327

Personnel GREG JIM  
 Auxiliary Tools \_\_\_\_\_

Open Hole Size \_\_\_\_\_ T.D. \_\_\_\_\_ ft. P.B. to \_\_\_\_\_ ft.

Plugging or Sealing Materials: Type 60/40 4% 1/4# CELLOFLAKE  
 Gals. \_\_\_\_\_ lb. \_\_\_\_\_

Company Representative MATT SUCHY Treater GREG C.

TIME a.m./p.m.	PRESSURES		Total Fluid Pumped	REMARKS
	Tubing	Casing		
8:15				ON LOCATION
				PUMP 50 SKS @ 2670'
				PUMP 80 SKS @ 1920'
				PUMP 50 SKS @ 960'
				PUMP 50 SKS @ 360'
				CIRCULATE CEMENT FROM 60' TO SURFACE. TOOK 20 SKS
				PLUG RATHOLE WITH 30 SKS
1:45				JOB COMPLETE
				THANK YOU!!!



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

Well Name: Sunray #1-28 - Carmen Schmitt, Inc.  
API: 15-071-20894-00-00  
Location: N2-SE-SE-SW, Section 28-16S-41W  
License Number: KCC #6569  
Spud Date: May 27, 2021  
Surface Coordinates: 500' FSL & 2310' FWL,  
of Section  
Bottom Hole Vertical Wellbore  
Coordinates:  
Ground Elevation (ft): 3761 Ft.  
Logged Interval (ft): 3600 Ft. To: 5230Ft. Total Depth (ft): RTD 5230 Ft. LTD 5236 Ft.  
Formation: Mississippian at Total Depth  
Type of Drilling Fluid: Chemical

Region: Greeley Co., Kansas  
Drilling Completed: June 08, 2021  
Results: D & A  
Field: Wildcat  
K.B. Elevation (ft): 3769 Ft.

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 #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 plug and abandon the "Sunray #1-28", on June 08, 2021.

Respectfully,  
M. Bradford Rine, geologist

## Drilling Information

**Rig:** Murfin Drilling Co., Inc. #112  
**Pump:** Emsco D-375 6x14  
**Drawworks:** National T-32  
**Collars:** 470' 2-1/4" x 6-1/4"  
**Drillpipe:** 4-1/2" 16.6# XH  
**Toolpusher:** Paco Gonzales

**Mud:** Mud-Co (Tony Maestas)  
**Gas Detector:** None  
**Drill Stem Tests:** Trilobite (Walt Walters)  
**Logs:** Midwest (J. Henrickson)  
**Water:** Water Well (Midwest Water Line)  
**Company Representatives:**  
**Office:** Carmen Schmitt  
**Field:** None

## Daily Drilling Status

<b>Date:</b>	<b>Operations/Depth/Comments</b>
05-26-21	MIRT @ 0'
05-27-21	MIRT, RU, Spud @ 0'
05-28-21	Stuck in Surface Hole @ 307'
05-29-21	Drilling @ 985'
05-30-21	Drilling @ 2549'
05-31-21	Bit Trip @ 3554'
06-01-21	Make Up Test Tool @ 3882'
06-02-21	Drilling @ 3930'
06-03-21	Drilling @ 4395'
06-04-21	Drilling @ 4772'
06-05-21	Make Up Test Tool @ 5000'
06-06-21	Circulating to Condition Hole after DST #4 @ 5015'
06-07-21	Drilling @ 5120'
06-08-21	Prepare to plug @ 5230', plugging completed at 5:00 PM.

	Results: D & A			(Well A)	P&A	(Well B)	D&A		
	Carmen Schmitt, Inc.			Ritchie Exploration, Inc.		Castle Resources			
	Sunray #1-28			FTIA #1		Johnson #2			
	500' FSL & 2310' FWL			560' FSL & 568' FWL		330' FNL & 330' FEL			
	Sec. 28-16S-41W			Sec. 28-16S-41W		Sec. 32-16S-41W			
	KB 3769			KB 3767		KB 3773		Well A	Well B
Formations	Sample	E-Log	Datum	E-Log	Datum	E-Log	Datum	Comparison(s)	
Anhydrite*	2688	2682	1087	2671	1096	2689	1084	-9	3
B/Anhydrite*	2715	2713	1056	2698	1069	2715	1058	-13	-2
Topeka	3861	3858	-89	3836	-69	3860	-87	-20	-2
Oread	4039	4036	-267	4010	-243	4038	-265	-24	-2
Heebner Sh.	4105	4101	-332	4072	-305	4101	-328	-27	-4
Toronto	4127	4128	-359	4092	-325	4120	-347	-34	-12
Lansing	4154	4157	-388	4123	-356	4153	-380	-32	-8
Muncie Creek Sh.	4341	4338	-569	4308	-541	4341	-568	-28	-1
Stark Sh.	4431	4428	-659	4404	-637	4437	-664	-22	5
B/Kansas City	4564	4558	-789	4532	-765	4570	-797	-24	8
Marmaton	4578	4573	-804	4546	-779	4582	-809	-25	5
Ft. Scott	4716	4716	-947	4700	-933	4739	-966	-14	19
Cherokee Sh.	4753	4754	-985	4742	-975	4778	-1005	-10	20
Atoka	4822	4821	-1052	4810	-1043	4848	-1075	-9	23
Morrow Sh.	4977	4970	-1201	4967	-1200	5006	-1233	-1	32
Mid-Morrow Sd	5014	5015	-1246	5001	-1234	5047	-1274	-12	28
Keyes Ls.	5082	5070	-1301	5049	-1282	5090	-1317	-19	16
Mississippi	5097	5092	-1323	5079	-1312	5203	-1430	-11	107
Total Depth	5230	5236	-1467	5299	-1532	5470	-1697	65	230

\* Original Anhydrite Interval depths were corrected, following depth correction at Pipe Strap at 3584 ft!

## Casing Record, Bit Record, Deviation Surveys, Pipe Straps

### CASING:

Conductor: None

Surface: Pipeworks 8 5/8" 23# Casing. Set @ 307'. (Copeland) Cement with 250 sx of 60/40 Poz, 2%gel, 4%cc. Plug down @ 2:00 PM, 5/28/2021. Cement did circulate. Drilled out @ 10:30 PM on 5/28/21.

Production: Plugged as follows: (Copeland) plugged well w/ 250 sks of 60/40 Poz, 2%gel, 4%cc. 30sx in rathole. Plug down @ 1:00 PM 06/08/21. Rig Released 5:00 PM.

### BITS:

No.	Size	Make	Model	Depth In	Depth Out	Hours
1	12-1/4	Smith	Tooth	0	307	5.25
2	7-7/8	Smith	MI616	306	3554	51.00
3	7-7/8	Smith	F27	3554	5230	86.00

### DEVIATION SURVEYS:

Deviation:	Depth:	Deviation:	Depth:
0.75*	307'	0.75*	3882'
1.00*	1331'	1.00*	5000'
1.50*	3554'	0.75*	5230'

### PIPE STRAPS:

Difference:    Depth:

31' long        Depth @ Pipe Strap 3554 ft.\*

\*(Found extra joint of pipe in hole! Corrected Depth to 3584' after Strap.)

0.84' long     5000'

### DISPLACE & MUDUP:

3491 Ft.

**DST #1: 3864-3882 (Topeka B)**

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

**Initial Open: Wk Blow, built to 0.8" i.b.**

**Final Open: Wk Blow, built to 0.3" i.b.**

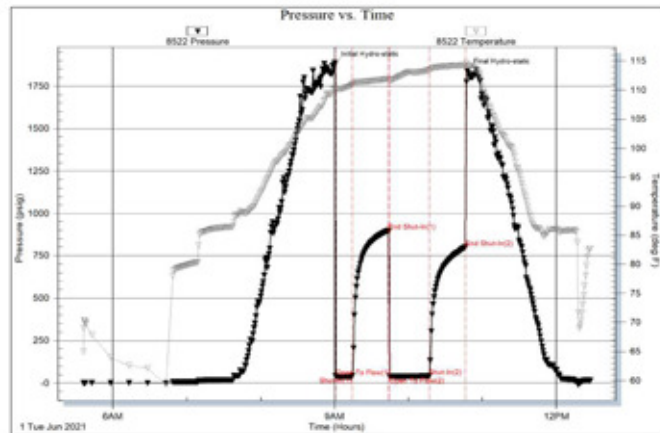
**Rec: 25 ft thin mud**

**IHP: 1880 IHP: 1838**

**IFP: 38-37 FFP: 38-40**

**ISIP: 897 FSIP: 800**

**BHT: 118°F**



**DST #2: 3864-3918 (Topeka B,C)**

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

**Initial Open: Stg Blow, b.o.b. 12 min, built to 10.8"**

**Final Open: Stg Blow, b.o.b. 14 min, built to 34.7"**

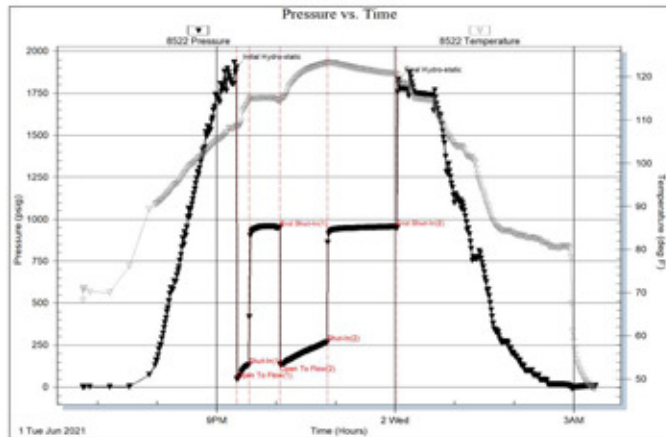
**Rec: 480' MCW/H2S: 85%w 15%m (Chl Wtr 44,000 ppm)**

**IHP: 1904 FHP: 1829**

**IFP: 47-132 FFP: 135-267**

**ISIP: 950 FSIP: 952**

**BHT: 121°F**



**DST #3: 4968-5000 (U. Morrow)**

**Times: 15-30-10-out**

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

**Final Open: No Blow**

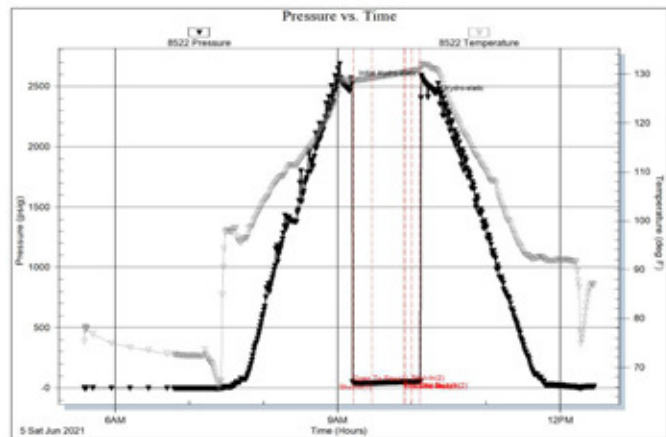
**Rec: 8' mud/oil spots in tool**

**IHP: 2524 FHP: 2402**

**IFP: 44-40 FFP: 51-53**

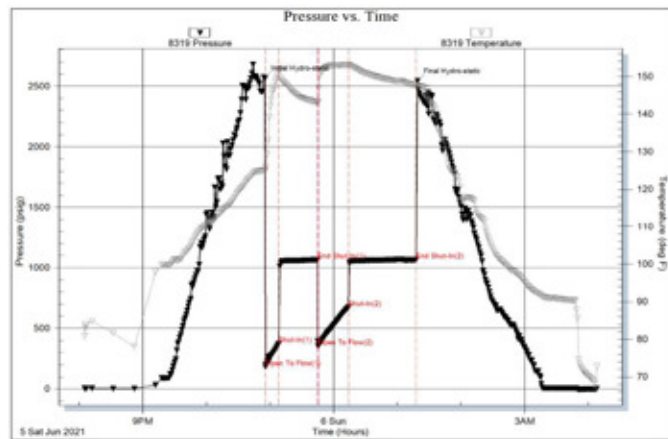
**ISIP: 50 FSIP: 53**

**BHT: 131°F**

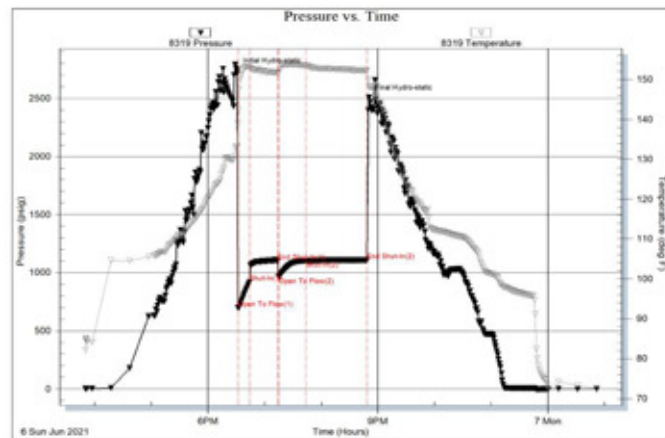




**DST #4: 4968-5015 (Mid Morrow)**  
**Times: 15-30-30-60**  
**Initial Open: Stg Blow, b.o.b. 4 min, built to 39", No Return**  
**Final Open: Stg Blow, b.o.b. 5 min, built to 85", No Return**  
**Rec: 1450' MCW: 95%w 05%m (Chl/Wtr: 54000 ppm)**  
**IHP: 2565 FHP: 2541**  
**IFP: 181-372 FFP: 351-672**  
**ISIP: 1065 FSIP: 1065**  
**BHT: 148°F**



**DST #5: 5053-5084 (Lwr Morrow)**  
**Times: 15-30-30-60**  
**Initial Open: Stg Blow, b.o.b. 4 min, built to 187", No Return**  
**Final Open: Stg Blow, b.o.b. 1.5 min, Built to 74", No Return**  
**Rec: 2450' MCW: 97%w 03%m (Chl/wtr: 61000 ppm)**  
**IHP: 2737 FHP: 2505**  
**IFP: 697-918 FFP: 961-1101**  
**ISIP: 1101 FSIP: 1107**  
**BHT: 153°F**



### Rock Types

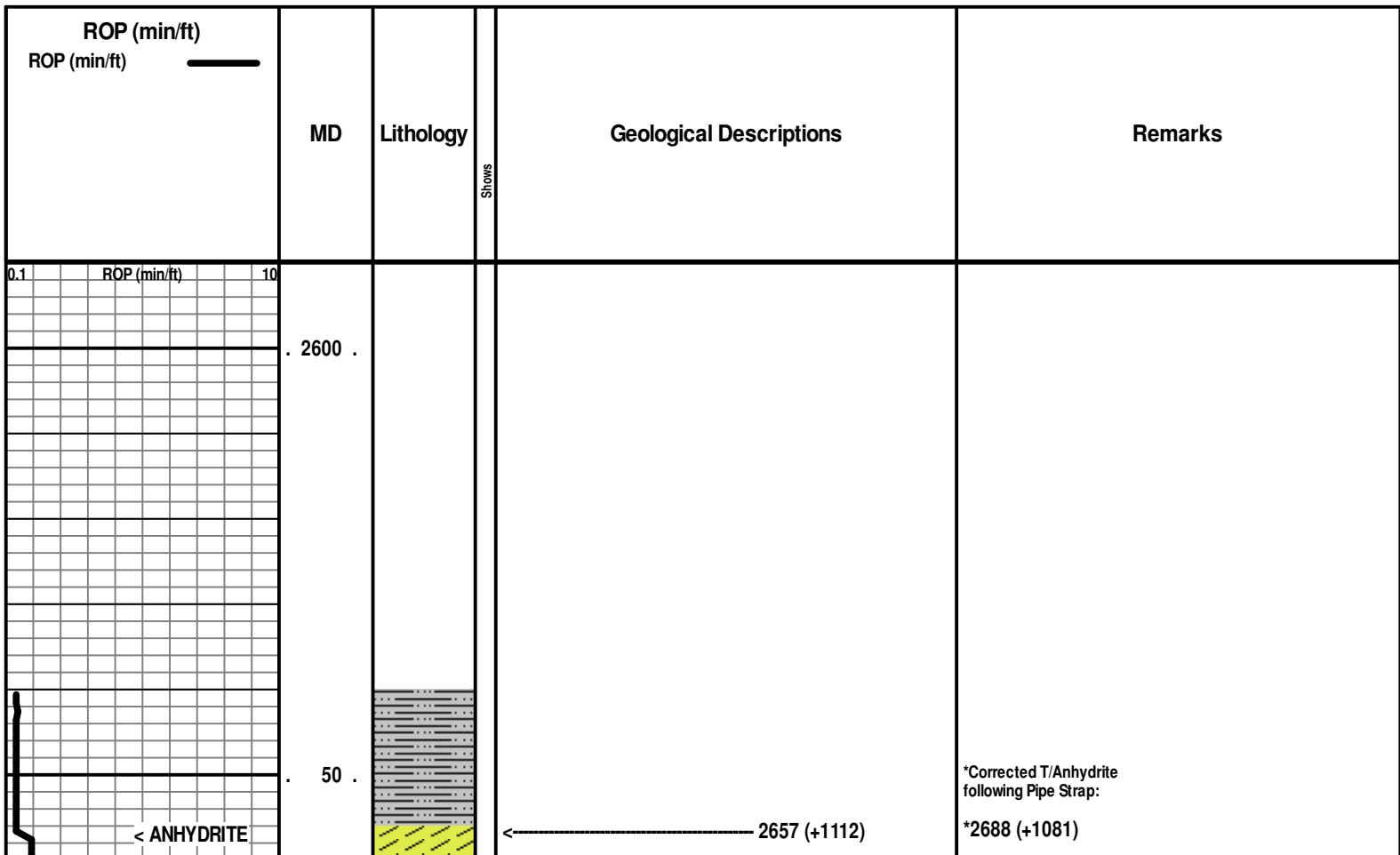
	Cgl/gran wash		Bent		Dol		Salt		Till
	Dol ls/lmy dol		Brec		Gyp		Shale		Siltysh
	New symbol		Cht		Igne		Shcol		Shlysiltst
	Dol ls/lmy dol		Clyst		Lmst		Shgy		Siltst
	New symbol		Blk sh/coal		Meta		Ss		Sandyls
	Anhy		Congl		Mrlst				

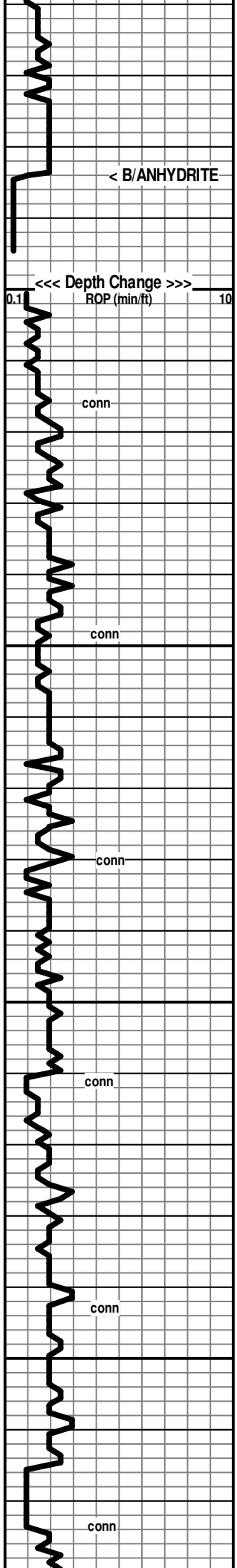
### Accessories

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

### Other Symbols

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





< B/ANHYDRITE

3600  
3650  
3700  
3750



Anhydrite Interval, based on drill time only!

\* See Correction comments in far right column!

← 2684 (+1085)

\* Bit Trip at corrected depth: 3584'!

100% silty shale to shaley siltstone, red

90% Silty Shale to shaley Siltstone; 10% Ls pl gy, dns

70% Shale gy in pt, red silty in pt; 30% Ls cr-gy, fn xln, dns, foss in pt

60% Ls, cr-gy, fn xln, pr xln por to dns, foss to abund foss; 40% Sh gy in pt, red in pt, silty to earthy to clay

75% Shales, red-gy, silty in pt; 25% Ls & dolom ls, fn xln, subsucr, pr vis xln por

50% Ls wh-cr-pl gy, fn xln, dns; 50% Shales pl gy-gy-red, silty in pt

75% Dolo & Dolom Ls, cr-pl gy, fn xln, subsucr-sucr, pr vis xln por; 25% Shale red-gy, silty in pt

80% Ls cr-tan-gy, fn xln, pr xln por, foss to abund foss; 20% shales, red-gy

60% Ls wh-cr-gy, fn xln, dns to pr xln por with some fr xln por in pt,

\*Corrected B/Anhydrite following Pipe Strap:

\* 2715 (1054)

Displace & Mudup @ 3491 ft!

Survey @ 3584\*\* 1.50\* (see Pipe Strap)

Pipe Strap @ 3554': 31' Long!\*

(Found extra joint of pipe in drill string during Strap.)  
Corrected Depth, based on Strap to: 3584 ft)

Mud Check, Bit Trip/3584':

Vis	Wt	WL	PV	YP
47	8.6	7.2	15	14
Chl	Hd	pH	LCM	Solids
26000	20	11.0	2	1.8

conn

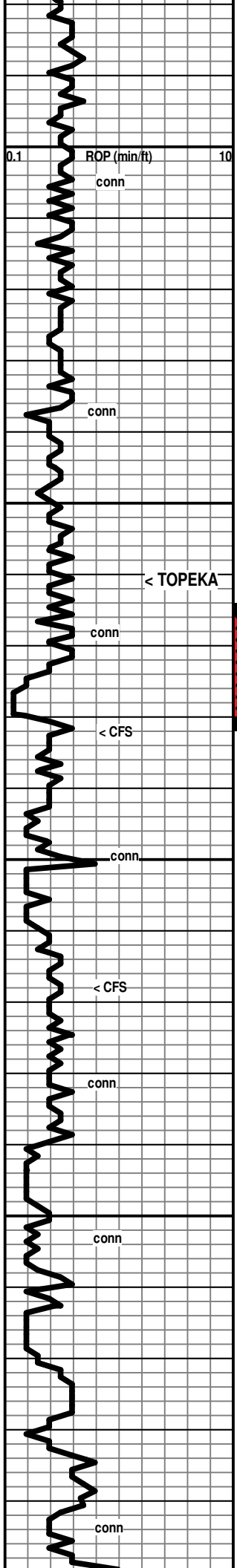
conn

conn

conn

conn

conn



3800

3850

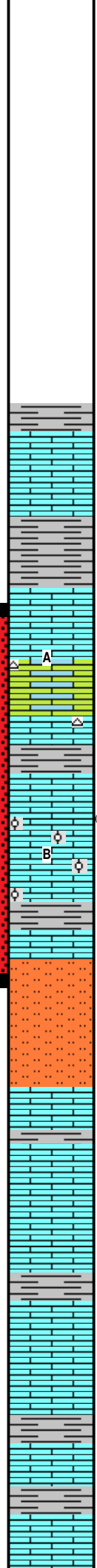
3900

3950

4000

D  
S  
T  
1

D  
S  
T  
2



dolom in pt, chalky in pt; 40% Shales red-gy

75% Ls cr-gy, fn xln, dns, sli foss in pt; 25% Shales red-gy

60% Ls cr-gy, fn xln, dns, sli foss in pt; 40% Shales red-gy

40% Ls wh-cr-gy, fn xln, dns, sli foss in pt; 60% Shales red-gy, silty in pt

50% Ls wh-cr-pl gy, fn xln, dns, foss in pt; 50% Shales red-gy

< TOPEKA

← 3861 (-92)

Ls & Dolom Ls & Dol, cr, fn xln, subsucr text to sucr, fr vis xln por, some fresh chert  
**[Mild Sour Odor, low % pcs with Brt speckled fluor, with colorless microdrops on crush vis under blk lt, No vis stn or show in white L!]**

Sh red-gy-dk gy

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

Ls wh-cr-tan, fn xln, pr vis xln por, chalky in pt, dns in pt, foss, ool in pt, some fresh chert, foss in pt  
**[3885-3910: Mild sour odor, few pcs per tray with Brt speckled fluor-some in chalky pcs, with trace to vsli shows of colorless micro-drops vis only under blk lt]**

3950' spl: 90% Siltstone, wh-gy, with shaley to calc cement; 10% red-gy shale

3960' spl: 33% Siltstone wh-gy as above; 33% Shales red-gy-dk gy; 33% Ls wh-cr, fn xln, pr-fr xln por, foss

Ls cr-tan fn xln, scatt pr-fr xln porscattered inclusions of gy chert, foss, to ool with inter ool pores in Ls, some sh silty Ls to limey siltstone, some red-gy shale

3980' spl: 80% Ls wh-cr-tan, fn xln, subchalky to chalky in pt, pr-fr xln por in pt with scatt pp pores, abund foss, ool in pt; 20% Shales & siltstones

Sh gy-dk gy

4000' spl: 80% Ls & Dolom Ls & Limey Dol, cr, fn xln, subsucr-sucr in pt, pr-fr xln in pt, foss; 20% gy-red shale

**DST #1: 3864-3882 (Topeka B)**  
 Times: 15-30-30-30  
 Initial Open: Wk Blow, built to 0.8" i.b.  
 Final Open: Wk Blow, built to 0.3" i.b.  
 Rec: 25 ft thin mud  
 IHP: 1880 IHP: 1838  
 IFP: 38-37 FFP: 38-40  
 ISIP: 897 FSIP: 800  
 BHT: 118°F

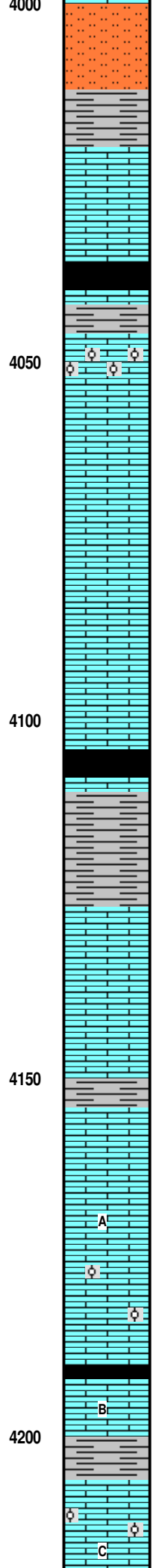
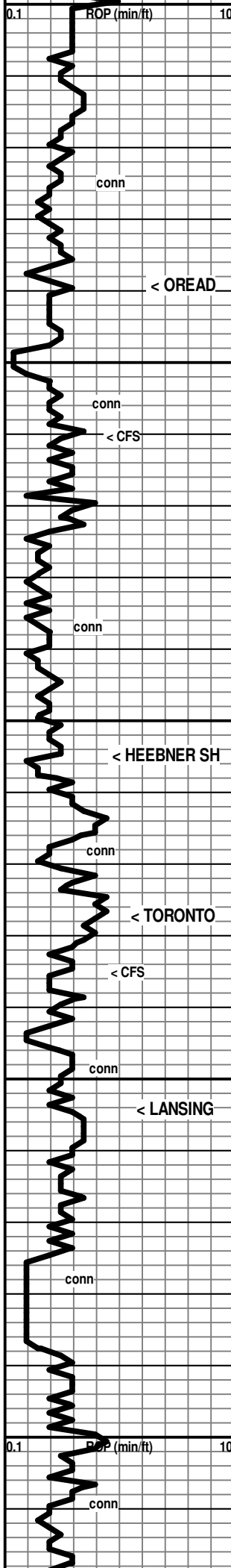
7:00 AM, June 01,2021

Mud Check, TIH/DST1 @ 3882':  
 Vis Wt WL PV YP  
 56 8.9 8.0 16 19  
 Chl Hd pH LCM Solids  
 4000 20 10.5 2 3.9

**DST #2: 3864-3918 (Topeka B,C)**  
 Times: 15-30-45-60  
 Initial Open: Stg Blow, b.o.b. 12 min, built to 10.8"  
 Final Open: Stg Blow, b.o.b. 14 min, built to 34.7"  
 Rec: 480' MCW/H2S: 85%w 15%<sub>m</sub> (Chl Wtr: 44,000 ppm)  
 IHP: 1904 FHP: 1829  
 IFP: 47-132 FFP: 135-267  
 ISIP: 950 FSIP: 952  
 BHT: 121°F

7:00 AM, June 02,2021

Mud Check, Drlg @ 3961':  
 Vis Wt WL PV YP  
 51 9.0 8.8 16 18  
 Chl Hd pH LCM Solids  
 5300 40 9.5 1 4.6



Siltstone gy, calc to shaley

Sh gy-red

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

Sh black, carb (v. rare in spls)

← 4039 (-270)

Sh red-gy

Ls wh-cr, fn xln, pr xln por in pt with interool & interfoss pores, dns in pt, abund foss

Ls wh-cr, fn xln, mix of dns in pt, pr vis xln por in pt, chalky in pt, foss (Mod am't of reda shales in spls)

Ls wh-cr, fn xln, mix of dns in pt, pr vis xln por in pt, chalky in pt, foss (Mod am't of reda shales in spls)

← 4105 (-336)

Sh black, carb(v. poorly repres. in spls)

Spls 80% shales red & gy!

← 4127 (-358)

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

4160' spl: 98% Ls wh-cr, fn xln, dns pr vis xln por, foss in pt

← 4154 (-385)

Ls wh-cr, fn xln, dns in pt, pr xln por in pt, foss in pt \*(Spls 90% LCM?)

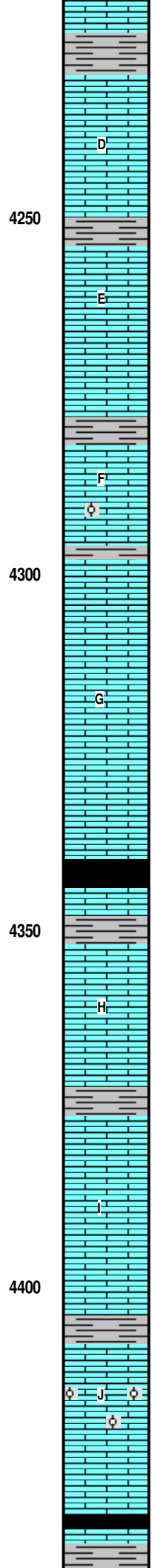
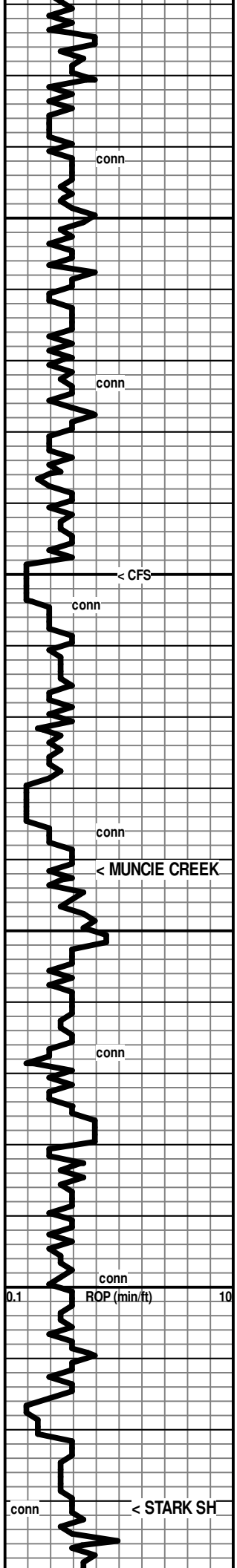
\* These spls of are v. little value!

Ls wh-cr, fn xln, pr-fr xln por, ool in pt, \*(spls 90% LCM?)

\* Spl Box had sunk into the mud at great angle. Therefore most cuttings went over box into pits! Crew Hoisted it back up and leveled.

75% Ls wh-cr, fn xln, dns in pt, pr vis xln por in pt, foss in pt; 25% Shales red to gy

Ls wh-cr, fn xln, mostly pr xln por with scatt pp pores, dns in pt, foss to abund foss, some ool



Sh red

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

4250

Sh red

Ls wh-cr-pl gy, fn xln, mostly dns, some pr xln por, some chalky, foss in pt; 50% red shale

Ls wh-cr-gy, fn xln, dns, some chalky, some graint text, foss in pt

Sh red

F

Ls cr-gy, vfn-fn xln, dns, ool in pt

4300

Ls wh-pl gy, fn xln, pr-fr xln por, foss in pt

G

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

Ls wh-cr-pl gy, fn xln, dns to pr vis xln por, subchalky inpt, foss in pt

< 4341 (-572)

Sh black, carb

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

4350

Sh gy-red-grn

H

Ls wh-cr-tan-gy, vfn-fn xln, mostly dns & firm, some pr xln por, some subchalky, foss in pt

Sh gy-red-grn

I

Ls wh-cr, fn-fnxln, dns to pr xln por, sli foss in pt

4400

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

J

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

Ls cr-gy fn xln, dns

< 4431 (-662)

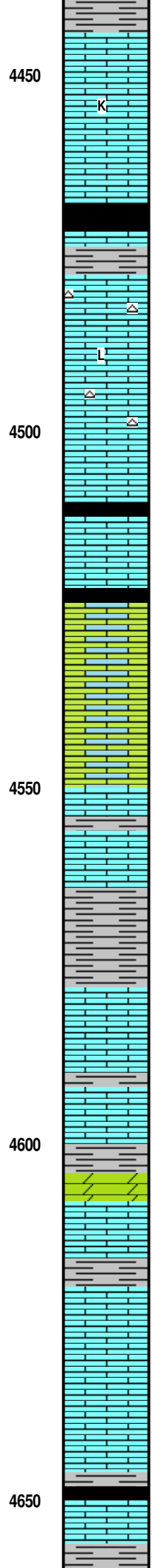
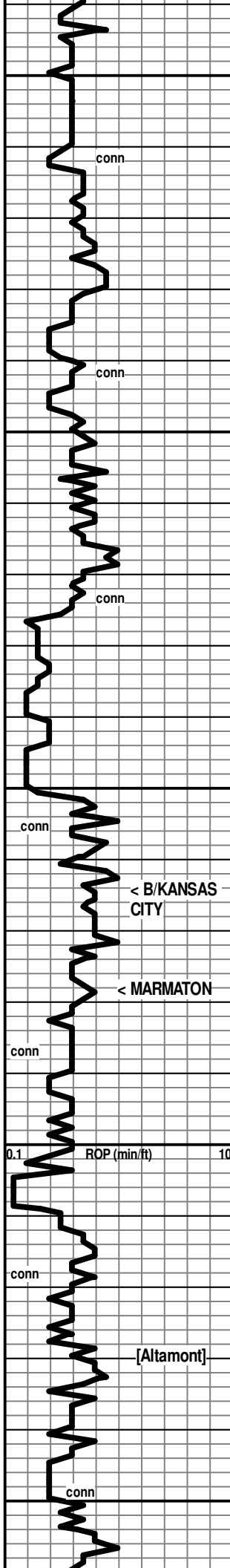
Sh black, carb

7:00 AM, June 03, 2021

Mud Check, Drlg @ 4407':

Vis	Wt	WL	PV	YP
61	9.5	9.6	18	22
Chl	Hd	pH	LCM	Solids
6000	60	9.0	1	7.3

\* Jet & Add Premix!



Sh gy-red-grn, silty in pt

4450  
Ls wh-cr, fn xln, pr xln pr to dns, chalky in pt, foss, some finely ool in chalky cem (high red shale %)

conn

Sh dk gy-black, carb in pt

Ls wh-gy, fn xln, chalky in pt, pr vis xln por in pt, scatt interfoss pores, Chert: transl, fresh

4500  
Ls pl gy, fn xln, dns, foss in pt

Sh black, carb

Ls pl gy to gy, fn xln, dns, sli foss

Sh black, carb

Dol Ls to Limey Dol cr-gy, fn xln, subsucr-sucr. pr to fr xln por in pt, foss in pt, a few pcs with good xln por

4550  
Sh gy-grn-red, sdy in pt

< B/KANSAS CITY

← 4564 (-795)

< MARMATON

← 4578 (-809)

Ls Wh-cr-pl gy, fn xln, mostly dns, Rr por xln por, foss in pt (abund red-grn-gy shale in spls)

Ls wh-cr-pl gy, vfn-fn xln, dns in pt, chalky & soft in pt, scatt pr iz xln por, foss, some chert: gy, subopaq, foss (high shale %)

4600  
Dol fn xln, subsucr-sucr-subrhombic,, some black shale

Ls cr, vfn-fn xln, dns

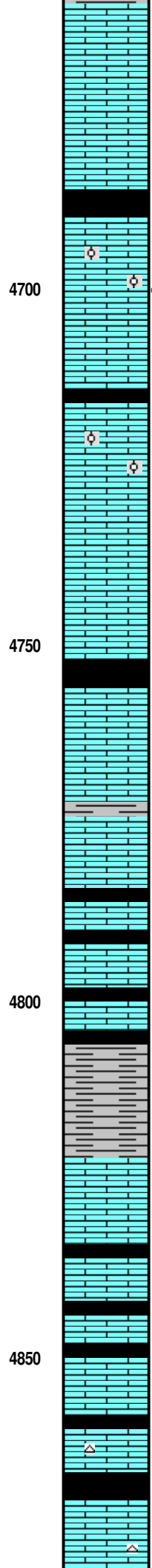
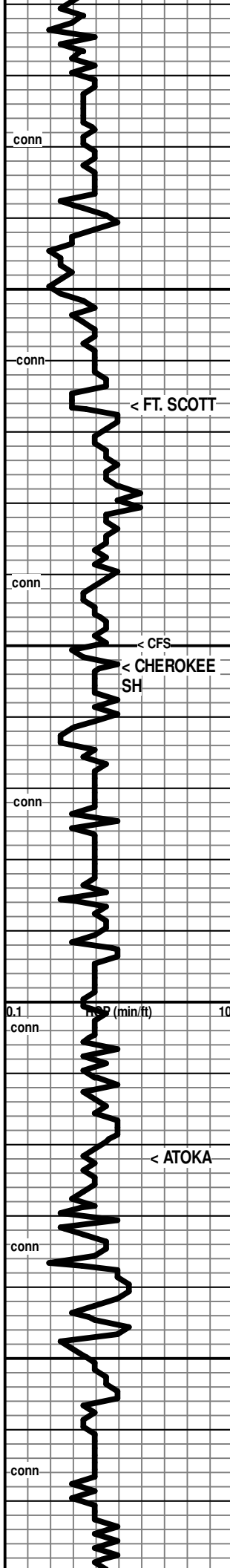
Sh gy-red

[Altamont]

Ls wh-cr, vfn xln, dns (continued poor spls due to excessive high shale percentage and very fine, discuss with rig. Spls of no value!)

4650  
Sh gy-red

(Jet & add premix!)



Ls wh-cr-gy, vfn-fn xln, dns, foss (V High Shale %)

4700' spl: abund black shale with dns cr-gy Ls

\*(Spls are good now!)

Sh black, carb

4700

Ls wh-gy.fn xln, subchalky to chalky in pt, dns to pr xln por in pt, foss to abund foss, ool in pt (well cem)  
**[No Odor, Rr specks of dull fluor, NSO]**

Sh black, carb

← 4716 (-947)

Ls wh-gy, fn xln, chalky & mushy in pt, dns in pt, foss, ool, Rr scatt interool pores

4750

Ls wh-gy, fn xln, chalky & mushy in pt, dns in pt, foss, ool, Rr scatt interool pores

Sh black, carb

← 4753 (-984)

Ls wh-cr-tan-gy, fn xln, chalky & softer to dns & firm, foss

7:00 AM, June 04, 2021

Mud Check, Drlg @ 4780':

Vis	Wt	WL	PV	YP
58	9.3	8.8	17	21
Chl	Hd	pH	LCM	Solids
5600	60	10.0	2	6.7

0.1 conn min/ft 10

4800

Ls wh-gy, fn-fn xln, dns & firm to soft & chalky, foss; Shale black, carb ((washes dk gy)

Ls wh-gy, vfn xln, dns, chalky in pt, foss

Sh gy-black, soft, carb in pt (washes dk gy)

← 4822 (-1053)

Ls wh-tan-gy, fn-vfn xln, dns & firm to softer & chalky, foss; Abund dk gy-black shale, carb in pt (washes dk gy)

conn

4850

Ls cr-tan-gy-dk gy, vfn xln,dns; Shales black, carb in pt, gm

conn

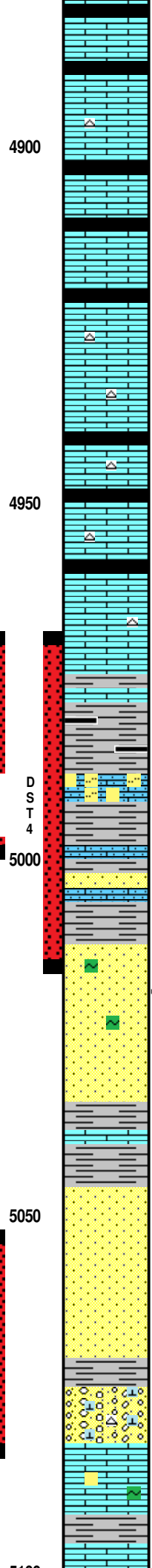
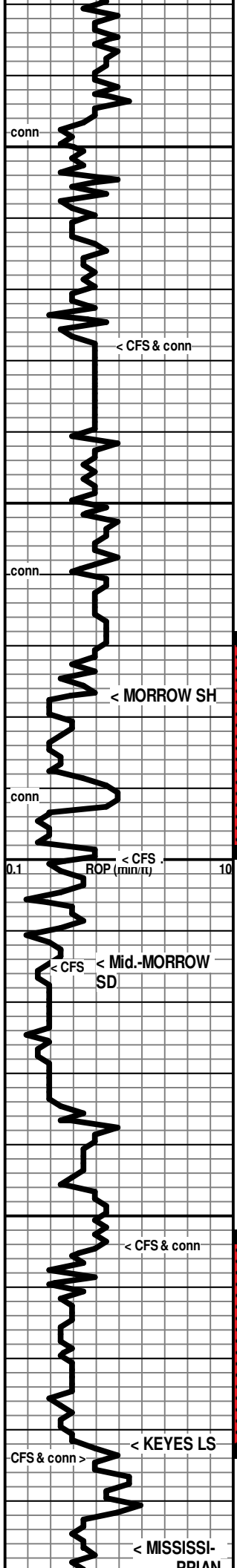
Ls tan-brn-gy-dk gy, vfn xln, dns, chert: gy, fresh, subtransl

< FT. SCOTT

< CFS  
 < CHEROKEE SH

< ATOKA





Sh gy-dk gy-black, carb in pt

Ls tan-brn-gy-dk gy, vfn xln, dns

Sh gy-dk gy-black, carb in pt

Sh

Lscr tan-brn-gy-dk gy, vfn xln, dns, foss in pt

Sh gy-dk gy-black, carb in pt

Ls tan-gy, vfn xln, dns, foss in pt, chert: fresh, tan transl

Sh dk gy-black, carb in pt

Ls as above

Sh dk gy-black, carb in pt

Ls as above

Sh dk gy-black, carb in pt

Ls tan-gy, vfn xln, dns, foss in pt, chert: fresh, tan, transl

← 4977 (-1208)  
Sh dy gy-black with some grn, pyr in pt, foss in pt (washes black)

Some mica/subcoal pcs  
Small amt of loose vfn gm siltstone/Sst in bottom of tray, Rr v. shaley to calc tiny clusters  
[ No Odor, Rr sm patches of brt fluor, NSO ]  
Sh dy gy-black with some grn, pyr in pt, foss in pt (washes black)

Sh gy-black with some grnish; Possible some sand-see below

← 5014 (-1245)  
Sd glassy-gy, md grn (250u-500u), some grns, anglr-subanglr to subrd in pt, fr-gd grmlr por, some cem or shaley, mod-gd sort, fr-gd fri, scatt glauc patches, some sm shale inclusions, subconglomeritic sd appearance

Show Descr. →

Sh pl gy-gy-dk gy, Rr red pcs, argill to subcarb, some pcs gy with blk shale fragments embedded, embedded to loose pyr, Rr crs cgl chert frags, Rr clusters of vfn gm silty sd; Some cr-tan Ls pcs, dns

5054' CFS: 90% Shales as above, some pyr as above, Trace of Ls cr-tan, fxln, dns, foss; SD 05% of  
spls: glassy-pl gy-some crs orange frags & grns, fn-md grn mix, pr-fr sort, subrd-subanglr, pr-fr intergrmlr por, pr-fr fri, some shaley, some scatt calc (NS)

85% Sh gy-dk gy-black, pyr in pt, silty in pt; 15% Ls cr-tan-yell, vfn-fn xln, dns, a few crs qrtz grns & frags

5084' CFS: 80% Shales, gy-grnish gy-black, silty in pt, pyr in pt; 20% Ls & Sdy Ls wh- cr-tan-gy, fn xln, dns, sdy in pt, scatt glauc specks in pt  
Trace of SD/Cgl, glassy-wh, calc/limey in pt, md grn, fr-gd sort, subanglr-subrd, pr-fr fri, pr-gd intergrmlr por; Chert: fresh to subanglr, crs frags, wh-orange

Show Descr. →

← 5082 (-1313)  
Ls cr-tan vfn xln, dns (spls 90% shales)

Sh gy-dk gy-black (spls 95% shales)

← 5097 (-1328)

< Short Trip at 4928 Ft, to condition hole for Morrow penetration and DST!(Pulled 20 Stands)

**DST #3: 4968-5000 (U. Morrow)**  
Times: 15-30-10-out  
Initial Open: Wk Blow, built to 1/2" i.b.  
Final Open: No Blow  
Rec: 8' mud/oil spots in tool  
IHP: 2524 FHP: 2402  
IFP: 44-40 FFP: 51-53  
ISIP: 50 FSIP: 53  
BHT: 131°F

\* Pipe Strap @ 5000 ft: 0.84' Long

Mud Check, TIH/DST3 @ 5000':  
Vis Wt WL PV YP  
51 9.4 8.8 16 18  
Chl Hd pH LCM Solids  
6400 60 9.0 2 7.4

7:00 AM, June 05, 2021

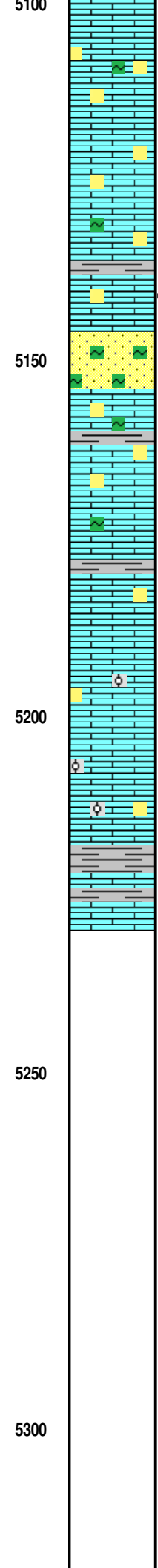
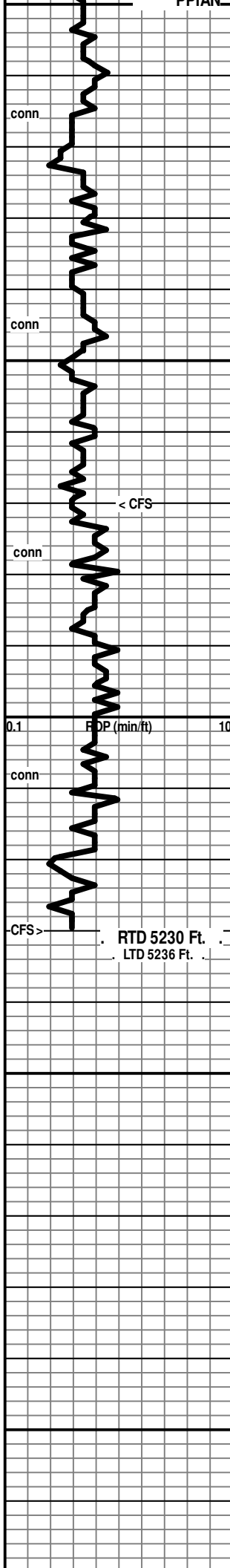
[5015' CFS: No Odor, Low % clusters with speckled-patchy mod-brt fluor, trace to v. sli shows of v. sli gassy & v.lt brn FO on crush, poss fnt. yellow spots of stn in dry, most clusters with no vis. show]

7:00 AM, June 06, 2021

**DST #4: 4968-5015 (Mid Morrow)**  
Times: 15-30-30-60  
Initial Open: Stg Blow, b.o.b. 4 min, built to 39", No Return  
Final Open: Stg Blow, b.o.b. 5 min, built to 85", No Return  
Rec: 1450' MCW: 95%w 05% m  
(Chl/Wtr: 54000 ppm)  
IHP: 2565 FHP: 2541  
IFP: 181-372 FFP: 351-672  
ISIP: 1065 FSIP: 1065  
BHT: 148°F

[No Odor, a few sdy clusters with mod fluor, trace of micro-drops of colorless oil visible only under blk lt., no show in white lt]

Mud Check, Drlg @ 5020':  
Vis Wt WL PV YP  
59 9.4 9.6 18 22  
Chl Hd pH LCM Solids  
7000 60 9.0 2 7.3



5110' spl: 50% Shales gy-black; 50% Ls wh-cr-tan, sdy in pt, scatt dk grn glauc specks, dns-pr vis xln por, some chalky, foss in pt

5120' spl: 35% Shales gy-black; 65% Ls wh-cr-tan, sdy in pt, scatt dk grn glauc specks, dns-pr vis xln por, some chalky, foss in pt

5130' spl: 15% Shales gy-black; 85% Ls wh-cr-tan, sdy in pt, scatt dk grn glauc specks, dns-pr vis xln por, some chalky, foss in pt

5140' spl: 05% Shales gy-black; 95% Ls wh-cr-tan, sdy in pt with some limey SD, scatt dk grn glauc specks, dns-pr vis xln por, foss in pt

5150' spl: 05% Shales gy-black; 95% Ls wh-cr-tan, sdy in pt with some limey SD, scatt dk grn glauc specks, dns-pr vis xln por, chalky in pt foss in pt

5160' spl: 05% Shales gy-black; 95% Ls wh-cr-tan, sdy in pt with some limey SD, scatt dk grn glauc specks, dns-pr vis xln por, chalky in pt foss in

**No Odor, NSO, a few pcs with scant spotty dull-mod fluor, mineral fluor?]**

5170' spl: 85% Ls wh-cr-tan, sdy in pt with some limey SD, scatt dk grn glauc specks, dns-pr vis xln por, chalky in pt, foss in pt; 15% Sd gm, vfn-fn gm, subrd, pr-gd sort, gm with glauc & glauc stn'd cem, pr vis intergrnlr por

**[No shows in SD, still Rr spotty dull fluor in Ls]**

5170' cfs spl: 95% Ls wh-cr-tan, sdy in pt with some limey SD, scatt dk grn glauc specks, dns-pr vis xln por, chalky in pt, foss in pt; 05% Sd gm, vfn-fn gm, subrd, pr-gd sort, gm with glauc & glauc stn'd cem, pr vis intergrnlr por

Ls wh-cr-tan, sdy in pt with some limey SD, scatt dk grn glauc specks, dns-pr vis xln por, chalky in pt, foss in pt

Ls wh-cr-tan, fn xln, dns, becoming less sdy than above, foss in pt

Ls cr-tan, fn xln, dns, foss, ool in pt, sli sdy in less pt

Ls cr-tan with some white, fn xln, soft & chalky in minor pt, mostly dns, sli sdy/silty in pt, foss in pt, some fn ool

Ls cr-tan with some white, fn xln, soft & chalky in minor pt, mostly dns, sli sdy/silty in pt, foss in pt, more ool than above, (15% dk gy-black shale)

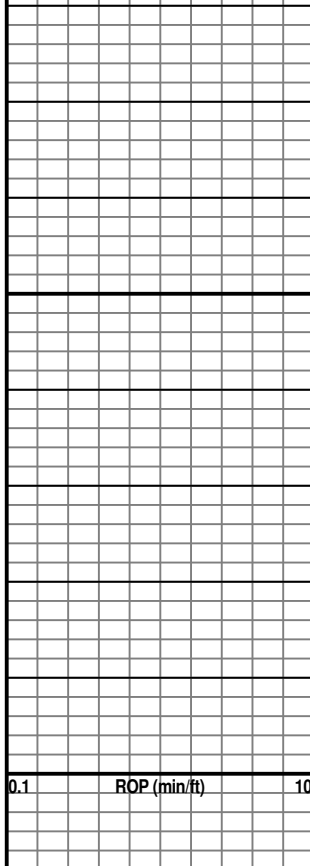
5230' 60-min spl: 75% shale gy-dk gy-black, 25% Ls sh-cr-tan, vfn-fn xln, dns to pr xln por, sdy in pt, ool in pt (shale could be the Morrow Formation sloughing?)

Mud Check, Drig @ 5115':  
 Vis Wt WL PV YP  
 50 9.1 8.8 16 18  
 Chl Hd pH LCM Solids  
 6800 40 10.0 2 5.2

7:00 AM, June 07, 2021

**DST #5: 5053-5084 (Lwr Morrow)**  
**Times: 15-30-30-60**  
**Initial Open: Stg Blow, b.o.b. 4 min, built to 187", No Return**  
**Final Open: Stg Blow, b.o.b. 1.5 min, Built to 74", No Return**  
**Rec: 2450' MCW: 97%w 03%m (Chl/wtr: 61000 ppm)**  
**IHP: 2737 FHP: 2505**  
**IFP: 697-918 FFP: 961-1101**  
**ISIP: 1101 FSIP: 1107**  
**BHT: 153°F**

RTD 5230 Ft. reached at 3:30 pm, June 07, 2021!



5350

5400



## DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc**

PO Box 47  
Great Bend, KS 67530

ATTN: Brad Rine

### **Sunray #1-28**

#### **28-16s-41w Greeley,KS**

Start Date: 2021.06.01 @ 05:36:00

End Date: 2021.06.01 @ 12:27:45

Job Ticket #: 66992                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2021.06.08 @ 13:19:18



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

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

**28-16s-41w Greeley,KS**

**Sunray #1-28**

Job Ticket: 66992

**DST#: 1**

Test Start: 2021.06.01 @ 05:36:00

## GENERAL INFORMATION:

Formation: **Toronto B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:01:00

Time Test Ended: 12:27:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 78

**Interval: 3864.00 ft (KB) To 3882.00 ft (KB) (TVD)**

Total Depth: 3882.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3769.00 ft (KB)

3761.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 8522 Inside**

Press@RunDepth: 40.61 psig @ 3865.00 ft (KB)

Start Date: 2021.06.01

End Date:

2021.06.01

Start Time: 05:36:05

End Time:

12:27:44

Capacity: 8000.00 psig

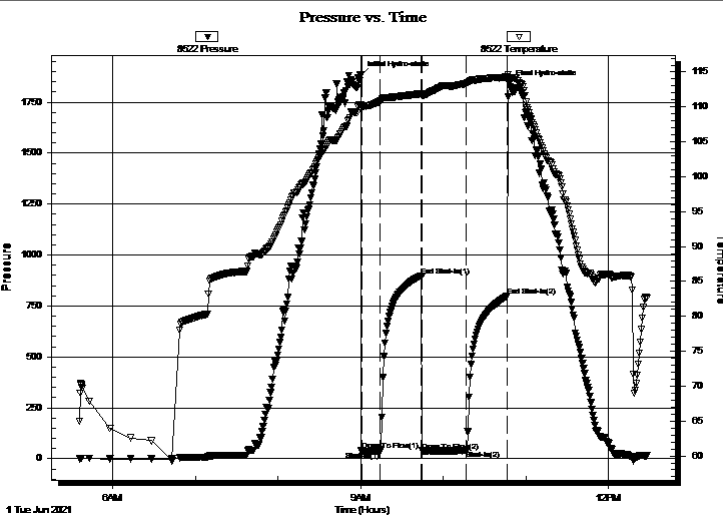
Last Calib.: 2021.06.01

Time On Btm: 2021.06.01 @ 09:00:15

Time Off Btm: 2021.06.01 @ 10:47:45

**TEST COMMENT:** 15- IF: .8" Blow .  
30- IS: No return.  
30- FF: .3" blow .  
30- FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1880.83	110.30	Initial Hydro-static
1	38.93	110.17	Open To Flow (1)
14	37.91	110.87	Shut-In(1)
44	897.36	111.89	End Shut-In(1)
45	38.74	111.63	Open To Flow (2)
77	40.61	113.32	Shut-In(2)
107	800.14	114.29	End Shut-In(2)
108	1838.48	114.23	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
25.00	mud 100m (thin)	0.12

## Gas Rates

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



**TRILOBITE TESTING, INC**

## DRILL STEM TEST REPORT

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

**28-16s-41w Greeley,KS**

**Sunray #1-28**

Job Ticket: 66992

**DST#: 1**

Test Start: 2021.06.01 @ 05:36:00

### GENERAL INFORMATION:

Formation: **Toronto B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:01:00

Time Test Ended: 12:27:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 78

**Interval: 3864.00 ft (KB) To 3882.00 ft (KB) (TVD)**

Reference Elevations: 3769.00 ft (KB)

Total Depth: 3882.00 ft (KB) (TVD)

3761.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8319 Outside**

Press@RunDepth: psig @ 3865.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.06.01

End Date: 2021.06.01

Last Calib.: 2021.06.01

Start Time: 05:36:05

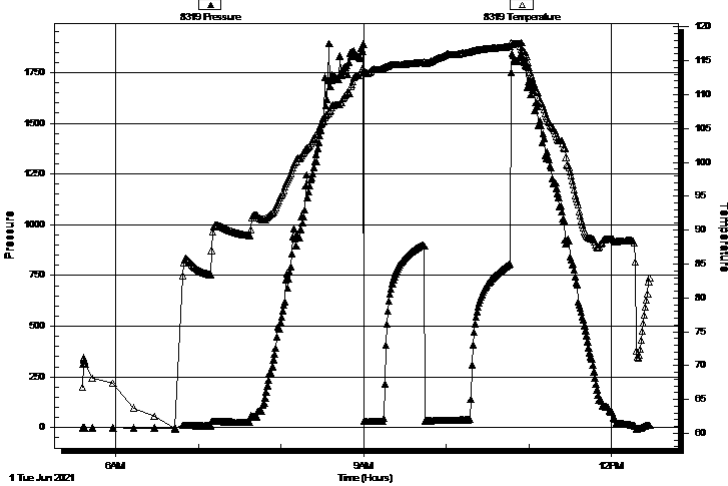
End Time: 12:27:44

Time On Btm:

Time Off Btm:

TEST COMMENT: 15- IF: .8" Blow.  
 30- IS: No return.  
 30- FF: .3" blow.  
 30- FS: No return.

Pressure vs. Time



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
25.00	mud 100m (thin)	0.12

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

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

**28-16s-41w Greeley,KS**  
**Sunray #1-28**  
Job Ticket: 66992 **DST#: 1**  
Test Start: 2021.06.01 @ 05:36:00

## Tool Information

Drill Pipe:	Length: 3673.00 ft	Diameter: 3.80 inches	Volume: 51.52 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 177.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 52.39 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	3864.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	45.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3838.00	
Shut In Tool	5.00		Fluid	3843.00	
Hydraulic tool	5.00			3848.00	
Jars	5.00			3853.00	
Safety Joint	2.00			3855.00	
Packer	5.00		Inside	3860.00	27.00 Bottom Of Top Packer
Packer	4.00			3864.00	
Stubb	1.00			3865.00	
Recorder	0.00	8522	Inside	3865.00	
Recorder	0.00	8319	Outside	3865.00	
Perforations	14.00			3879.00	
Bullnose	3.00			3882.00	18.00 Bottom Packers & Anchor

**Total Tool Length: 45.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

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

**28-16s-41w Greeley,KS**  
**Sunray #1-28**  
Job Ticket: 66992      **DST#: 1**  
Test Start: 2021.06.01 @ 05:36:00

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.98 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	mud 100m (thin)	0.123

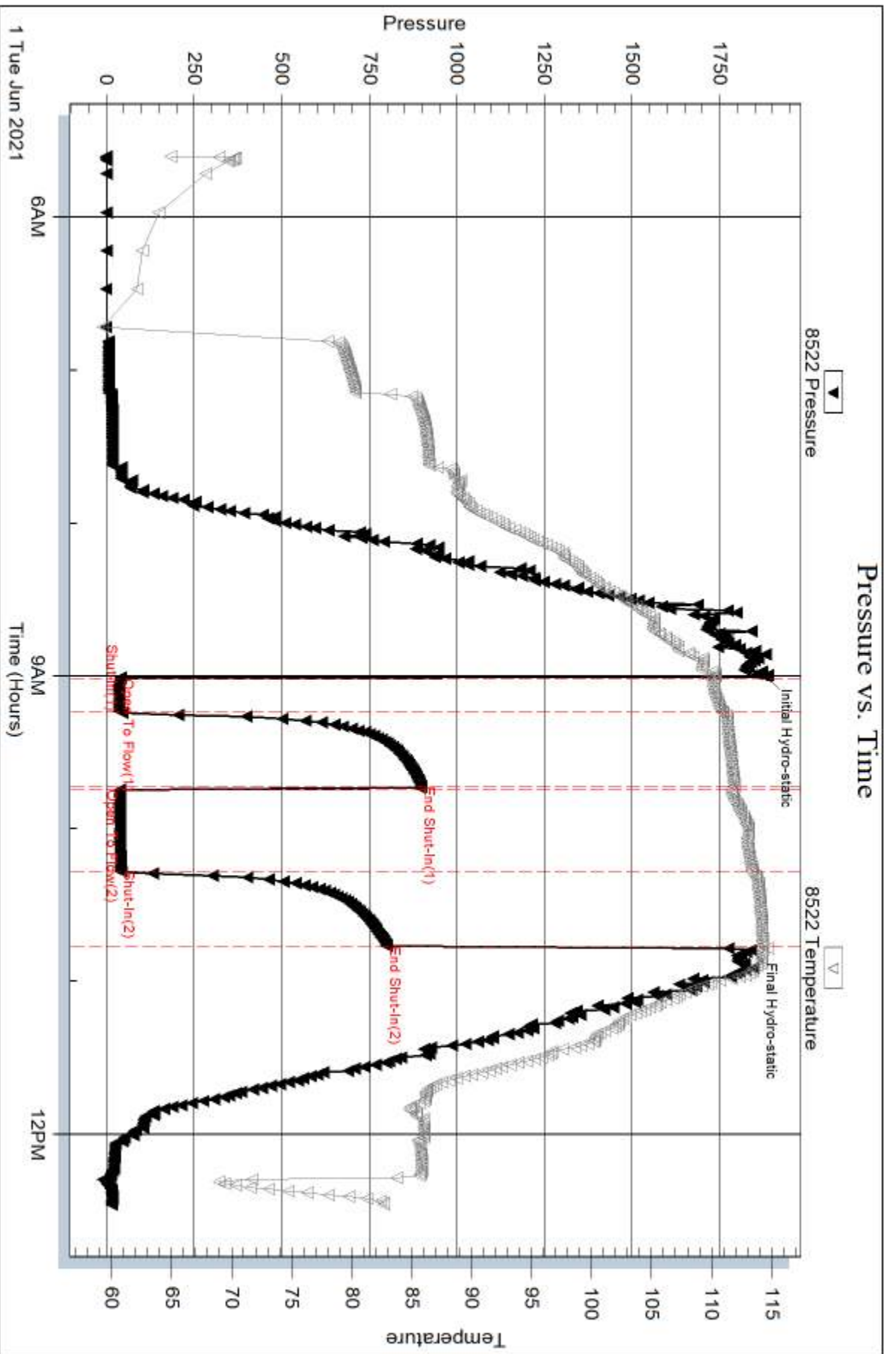
Total Length: 25.00 ft      Total Volume: 0.123 bbl

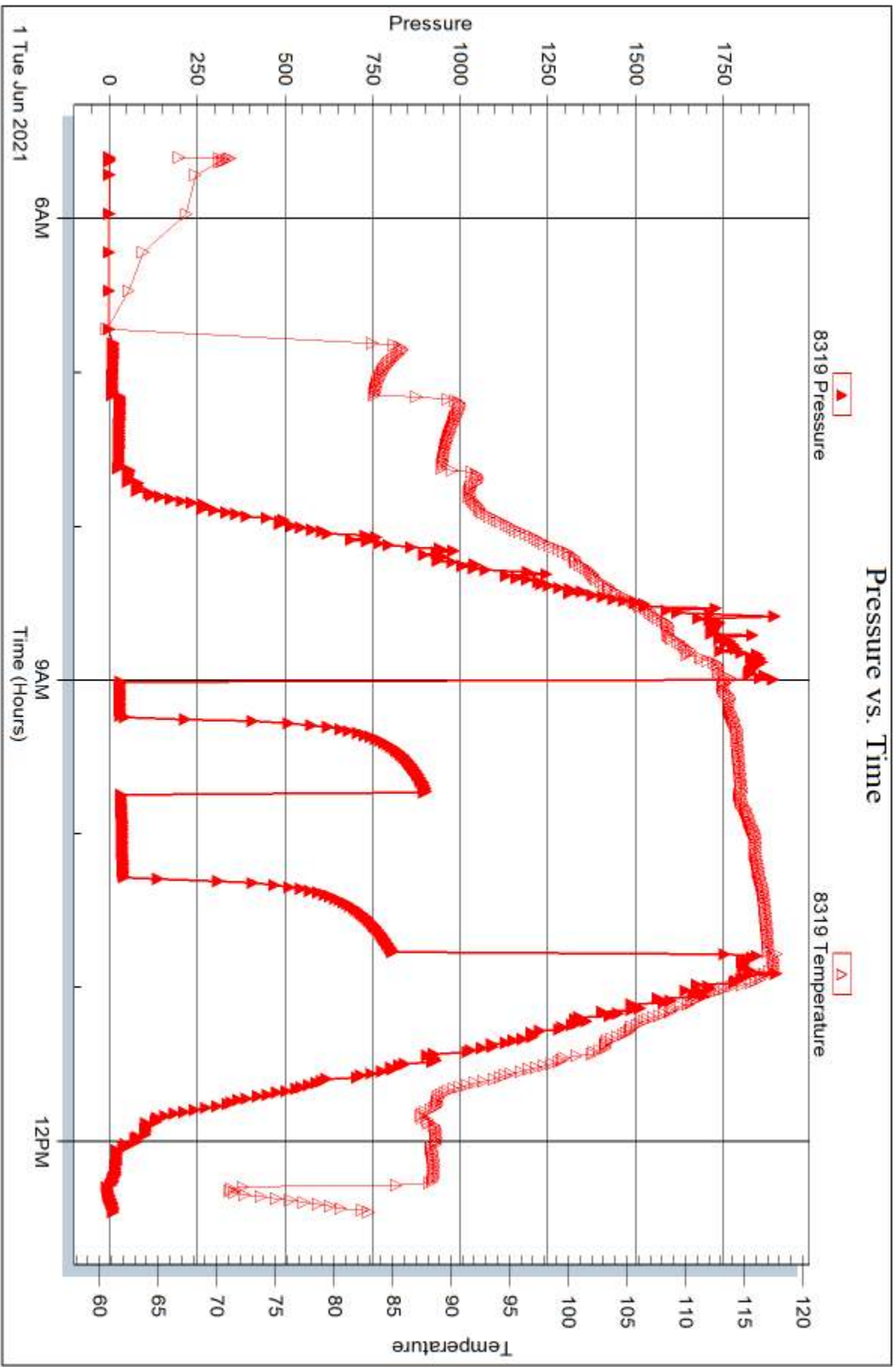
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:









## DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc**

PO Box 47  
Great Bend, KS 67530

ATTN: Brad Rine

### **Sunray #1-28**

#### **28-16s-41w Greeley,KS**

Start Date: 2021.06.01 @ 18:45:00

End Date: 2021.06.02 @ 03:22:30

Job Ticket #: 66993                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2021.06.08 @ 13:18:16



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

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

**28-16s-41w Greeley,KS**

**Sunray #1-28**

Job Ticket: 66993

**DST#: 2**

Test Start: 2021.06.01 @ 18:45:00

## GENERAL INFORMATION:

Formation: **Toronto**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 21:20:15  
 Time Test Ended: 03:22:30  
 Interval: **3864.00 ft (KB) To 3918.00 ft (KB) (TVD)**  
 Total Depth: 3918.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Bradley Walter  
 Unit No: 78  
 Reference Elevations: 3769.00 ft (KB)  
 3761.00 ft (CF)  
 KB to GR/CF: 8.00 ft

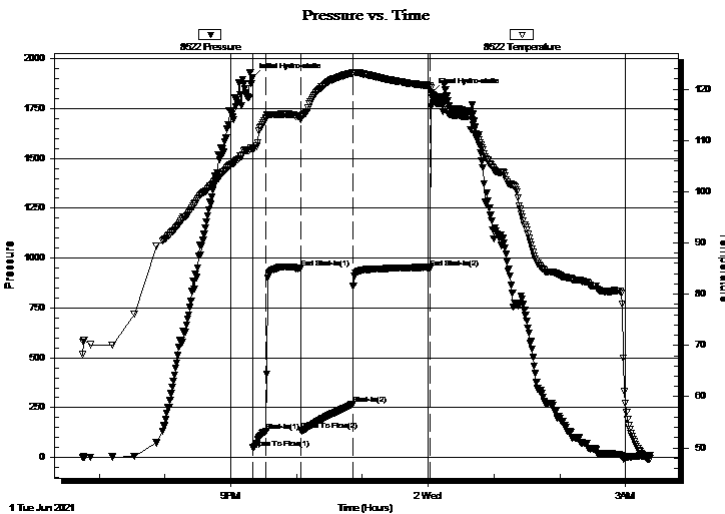
## Serial #: 8522

Inside

Press@RunDepth: 267.73 psig @ 3865.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2021.06.01 End Date: 2021.06.02 Last Calib.: 2021.06.02  
 Start Time: 18:45:05 End Time: 03:22:30 Time On Btm: 2021.06.01 @ 21:19:45  
 Time Off Btm: 2021.06.02 @ 00:03:15

TEST COMMENT: 15- IF: BOB @ 12 min built to 10.8"  
 30- IS: No return.  
 45- FF: BOB @ 14 min. built to 34.7"  
 60- IS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1904.80	108.65	Initial Hydro-static
1	47.97	108.11	Open To Flow (1)
13	132.43	114.48	Shut-In(1)
44	950.90	114.54	End Shut-In(1)
44	135.35	114.08	Open To Flow (2)
92	267.73	123.16	Shut-In(2)
162	952.66	120.62	End Shut-In(2)
164	1829.31	119.39	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
480.00	mcw 15m 85w	5.12

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

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

**28-16s-41w Greeley,KS**

**Sunray #1-28**

Job Ticket: 66993

**DST#: 2**

Test Start: 2021.06.01 @ 18:45:00

### GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:20:15

Time Test Ended: 03:22:30

**Interval: 3864.00 ft (KB) To 3918.00 ft (KB) (TVD)**

Total Depth: 3918.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Reference Elevations: 3769.00 ft (KB)

3761.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 8319 Outside**

Press@RunDepth: psig @ 3865.00 ft (KB)

Start Date: 2021.06.01

End Date: 2021.06.02

Start Time: 18:45:05

End Time: 03:22:30

Capacity: 8000.00 psig

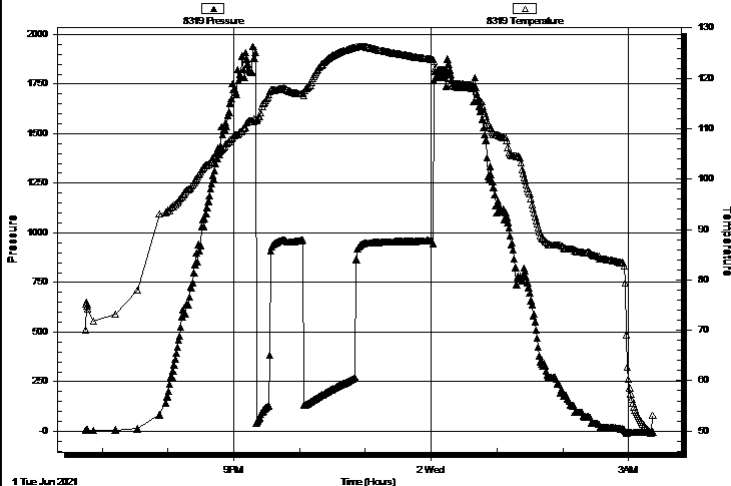
Last Calib.: 2021.06.02

Time On Btm:

Time Off Btm:

**TEST COMMENT:** 15- IF: BOB @ 12 min built to 10.8"  
30- IS: No return.  
45- FF: BOB @ 14 min. built to 34.7"  
60- IS: No return.

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
480.00	mcw 15m 85w	5.12

Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

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

**28-16s-41w Greeley,KS**  
**Sunray #1-28**  
 Job Ticket: 66993 **DST#: 2**  
 Test Start: 2021.06.01 @ 18:45:00

**Tool Information**

Drill Pipe:	Length: 3673.00 ft	Diameter: 3.80 inches	Volume: 51.52 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 177.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 52.39 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3864.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	54.00 ft			
Tool Length:	81.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

**Tool Description**

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3838.00	
Shut In Tool	5.00		Fluid	3843.00	
Hydraulic tool	5.00			3848.00	
Jars	5.00			3853.00	
Safety Joint	2.00			3855.00	
Packer	5.00		Inside	3860.00	27.00 Bottom Of Top Packer
Packer	4.00			3864.00	
Stubb	1.00			3865.00	
Recorder	0.00	8522	Inside	3865.00	
Recorder	0.00	8319	Outside	3865.00	
Perforations	17.00			3882.00	
Change Over Sub	1.00			3883.00	
Drill Pipe	31.00			3914.00	
Change Over Sub	1.00			3915.00	
Bullnose	3.00			3918.00	54.00 Bottom Packers & Anchor

**Total Tool Length: 81.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

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

**28-16s-41w Greeley,KS**  
**Sunray #1-28**  
Job Ticket: 66993      **DST#: 2**  
Test Start: 2021.06.01 @ 18:45:00

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 44000 ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.98 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 4000.00 ppm		
Filter Cake: 1.00 inches		

## Recovery Information

Recovery Table

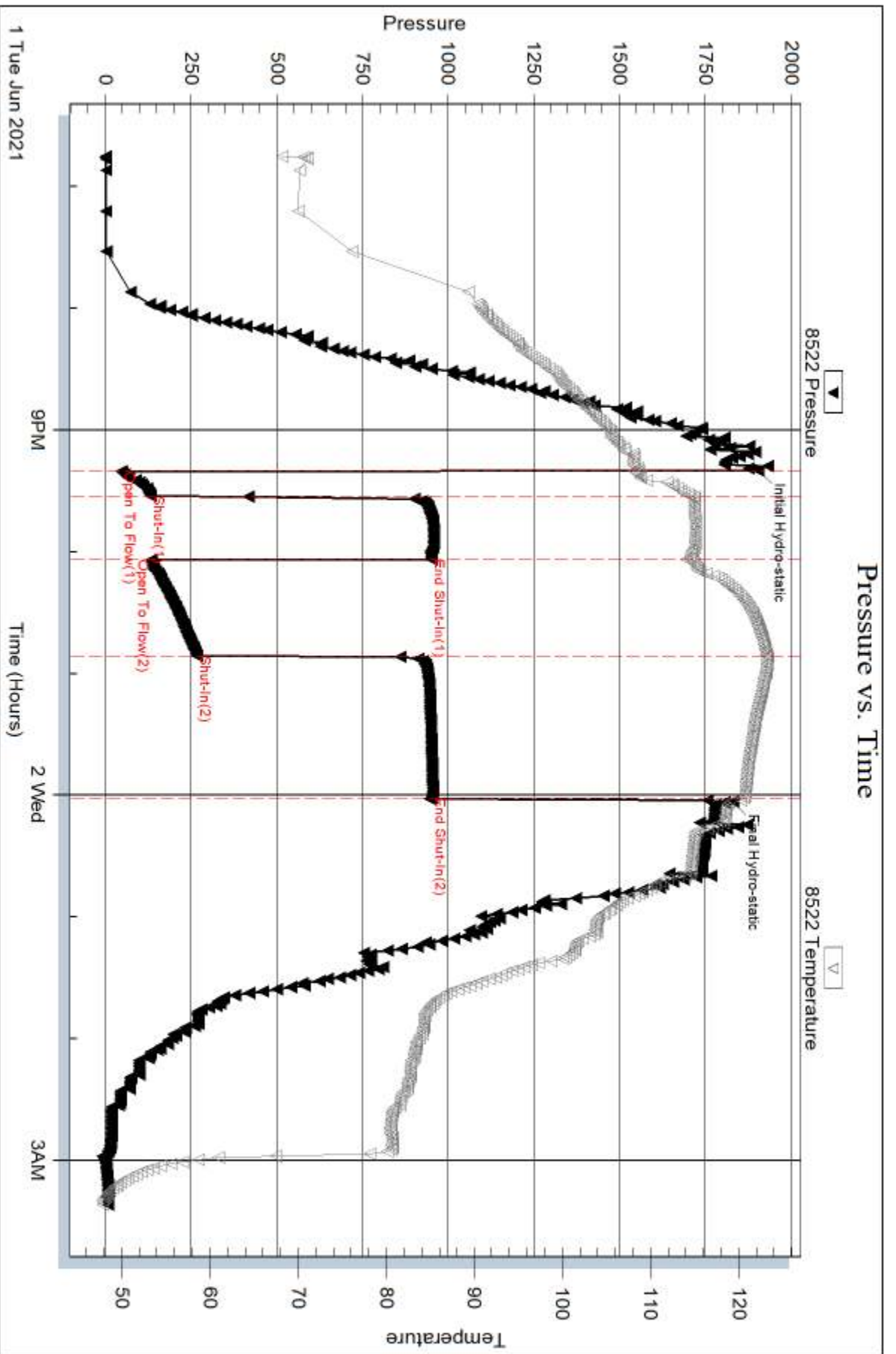
Length ft	Description	Volume bbl
480.00	mcw 15m 85w	5.121

Total Length: 480.00 ft      Total Volume: 5.121 bbl

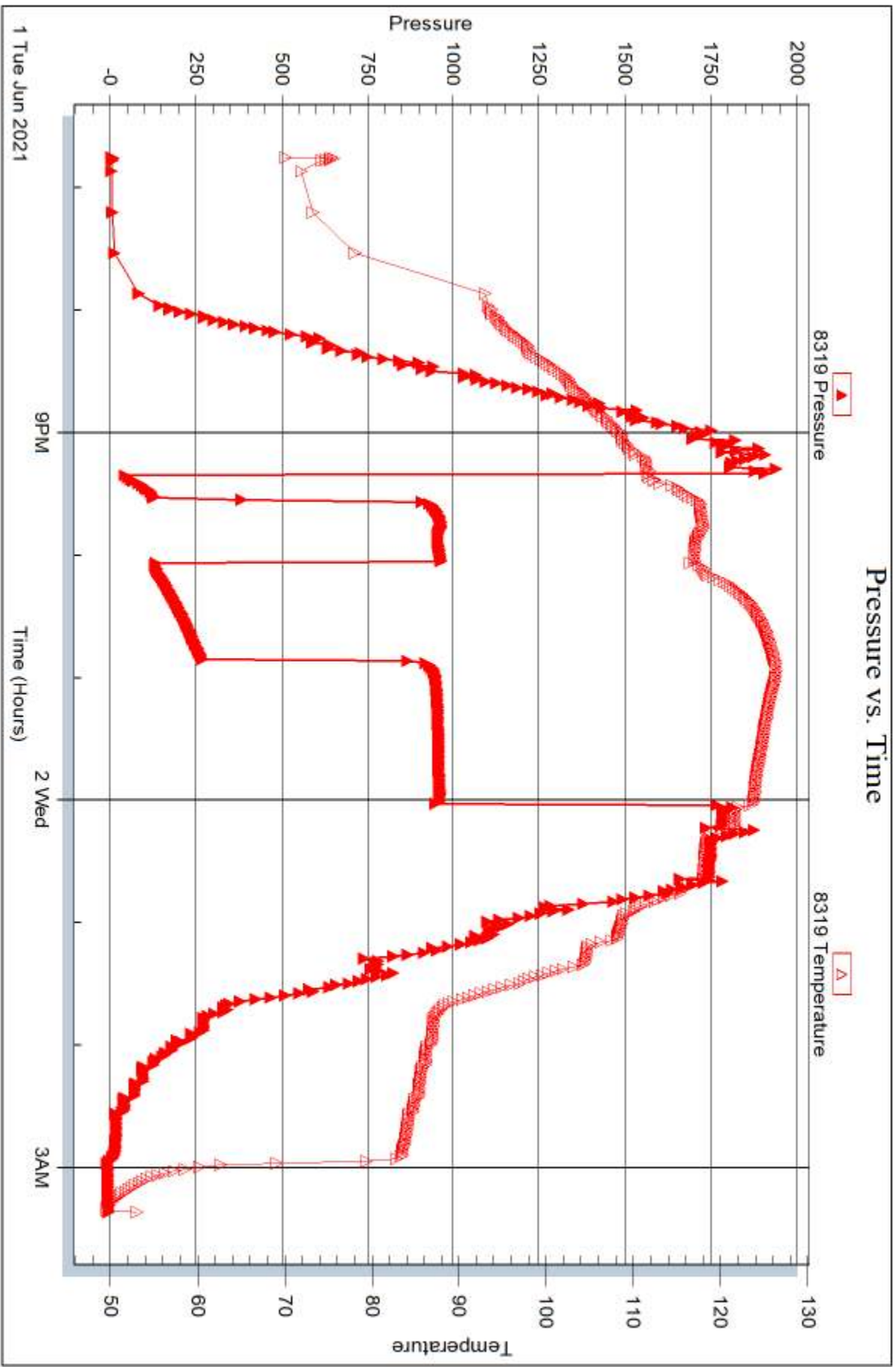
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments: rw is .184 @ 62f = 44000ppm  
H2s detected









## DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc**

PO Box 47  
Great Bend, KS 67530

ATTN: Brad Rine

### **Sunray #1-28**

#### **28-16s-41w Greeley,KS**

Start Date: 2021.06.05 @ 05:35:00

End Date: 2021.06.05 @ 12:27:30

Job Ticket #: 66994                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2021.06.08 @ 13:17:47



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

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

**28-16s-41w Greeley, KS**

**Sunray #1-28**

Job Ticket: 66994

**DST#: 3**

Test Start: 2021.06.05 @ 05:35:00

## GENERAL INFORMATION:

Formation: **U Morrow**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 09:13:00  
 Time Test Ended: 12:27:30  
 Interval: **4968.00 ft (KB) To 5000.00 ft (KB) (TVD)**  
 Total Depth: 5000.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Bradley Walter  
 Unit No: 78  
 Reference Elevations: 3769.00 ft (KB)  
 3761.00 ft (CF)  
 KB to GR/CF: 8.00 ft

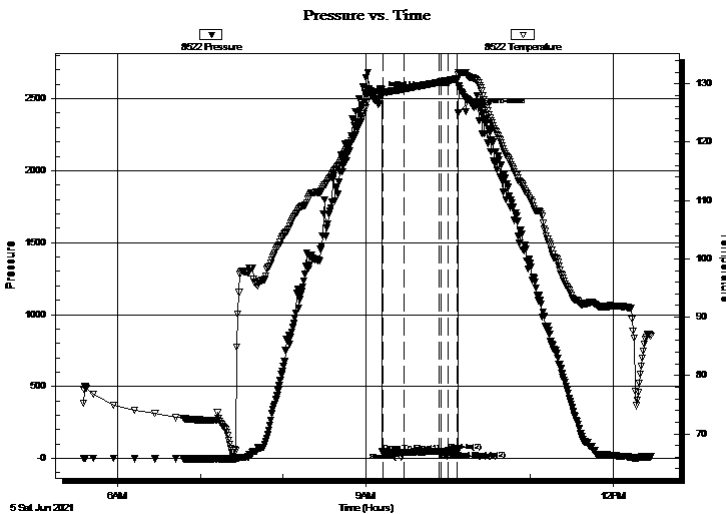
## Serial #: 8522

Inside

Press@RunDepth: 51.73 psig @ 4969.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2021.06.05 End Date: 2021.06.05 Last Calib.: 2021.06.05  
 Start Time: 05:35:05 End Time: 12:27:29 Time On Btm: 2021.06.05 @ 09:12:00  
 Time Off Btm: 2021.06.05 @ 10:07:30

TEST COMMENT: 15- IF: 1/2" blow .  
 30- IS: No return.  
 10- FF: No blow .  
 pulled test.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2524.80	128.97	Initial Hydro-static
1	44.60	128.54	Open To Flow (1)
16	40.67	129.12	Shut-In(1)
42	50.46	130.27	End Shut-In(1)
43	49.14	130.29	Open To Flow (2)
48	51.73	130.55	Shut-In(2)
55	53.50	130.82	End Shut-In(2)
56	2402.83	131.56	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
8.00	mud 100m (oil spots in tool)	0.04

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

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

**28-16s-41w Greeley,KS**  
**Sunray #1-28**  
 Job Ticket: 66994      **DST#: 3**  
 Test Start: 2021.06.05 @ 05:35:00

**Tool Information**

Drill Pipe:	Length: 4796.00 ft	Diameter: 3.80 inches	Volume: 67.28 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 177.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 68.15 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4968.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	59.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Change Over Sub	1.00			4942.00	
Shut In Tool	5.00		Fluid	4947.00	
Hydraulic tool	5.00			4952.00	
Jars	5.00			4957.00	
Safety Joint	2.00			4959.00	
Packer	5.00		Inside	4964.00	27.00      Bottom Of Top Packer
Packer	4.00			4968.00	
Stubb	1.00			4969.00	
Recorder	0.00	8522	Inside	4969.00	
Recorder	0.00	8319	Outside	4969.00	
Perforations	28.00			4997.00	
Bullnose	3.00			5000.00	32.00      Bottom Packers & Anchor

**Total Tool Length: 59.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

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

**28-16s-41w Greeley,KS**  
**Sunray #1-28**  
 Job Ticket: 66994      **DST#: 3**  
 Test Start: 2021.06.05 @ 05:35:00

## Mud and Cushion Information

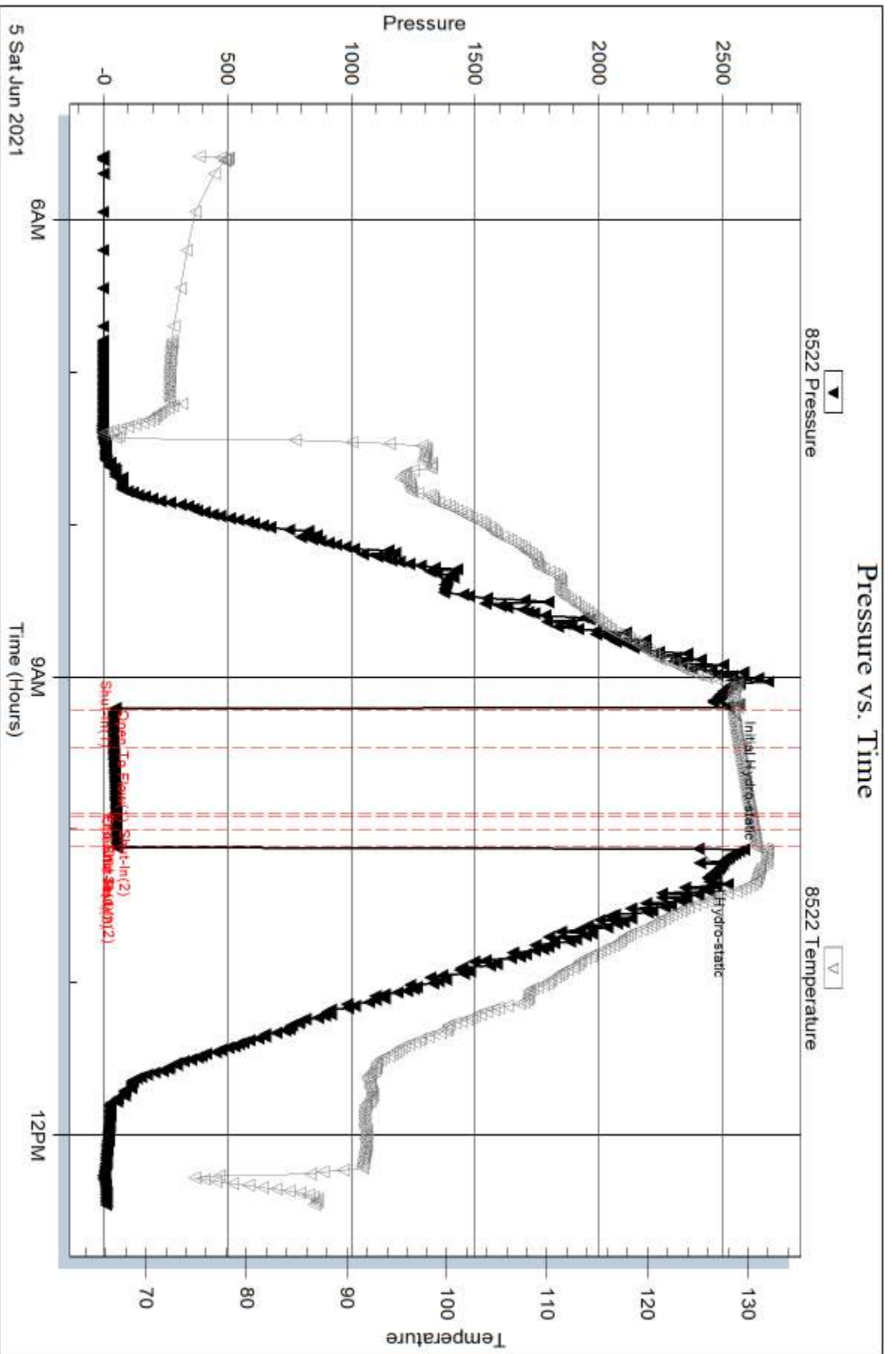
Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6400.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
8.00	mud 100m (oil spots in tool)	0.039

Total Length: 8.00 ft      Total Volume: 0.039 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:





## DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc**

PO Box 47  
Great Bend, KS 67530

ATTN: Brad Rine

### **Sunray #1-28**

#### **28-16s-41w Greeley,KS**

Start Date: 2021.06.05 @ 20:05:00

End Date: 2021.06.06 @ 04:08:15

Job Ticket #: 66995                      DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2021.06.08 @ 13:17:17



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

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

**28-16s-41w Greeley, KS**

**Sunray #1-28**

Job Ticket: 66995      **DST#: 4**  
 Test Start: 2021.06.05 @ 20:05:00

## GENERAL INFORMATION:

Formation: **Mid-Morrow**  
 Deviated: No Whipstock:      ft (KB)  
 Time Tool Opened: 22:55:15  
 Time Test Ended: 04:08:15  
 Interval: **4968.00 ft (KB) To 5015.00 ft (KB) (TVD)**  
 Total Depth: 5015.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Bradley Walter  
 Unit No: 78  
 Reference Elevations: 3769.00 ft (KB)  
 3761.00 ft (CF)  
 KB to GR/CF: 8.00 ft

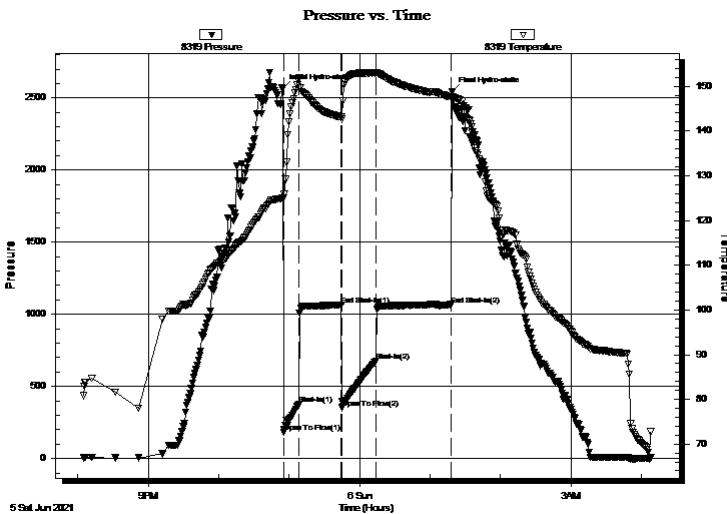
## Serial #: 8319

**Outside**

Press@RunDepth: 672.96 psig @ 4969.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2021.06.05      End Date: 2021.06.06      Last Calib.: 2021.06.06  
 Start Time: 20:05:05      End Time: 04:08:14      Time On Btm: 2021.06.05 @ 22:54:45  
 Time Off Btm: 2021.06.06 @ 01:18:45

TEST COMMENT: 15- IF: BOB @ 4 min.- 39" blow .  
 30- IS: No return.  
 30- FF: BOB @ 5 min. 83"  
 60- FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2565.05	125.10	Initial Hydro-static
1	181.57	125.05	Open To Flow (1)
14	372.98	151.65	Shut-In(1)
50	1065.04	143.10	End Shut-In(1)
51	351.45	143.22	Open To Flow (2)
79	672.96	153.01	Shut-In(2)
143	1065.93	147.70	End Shut-In(2)
144	2541.31	147.47	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1450.00	mcw 5m 95w	18.73

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

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

**28-16s-41w Greeley,KS**

**Sunray #1-28**

Job Ticket: 66995

**DST#: 4**

Test Start: 2021.06.05 @ 20:05:00

## GENERAL INFORMATION:

Formation: **Mid-Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:55:15

Time Test Ended: 04:08:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

**Interval: 4968.00 ft (KB) To 5015.00 ft (KB) (TVD)**

Reference Elevations: 3769.00 ft (KB)

Total Depth: 5015.00 ft (KB) (TVD)

3761.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8522 Inside**

Press@RunDepth: psig @ 4969.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.06.05

End Date:

2021.06.06

Last Calib.:

2021.06.06

Start Time: 20:05:05

End Time:

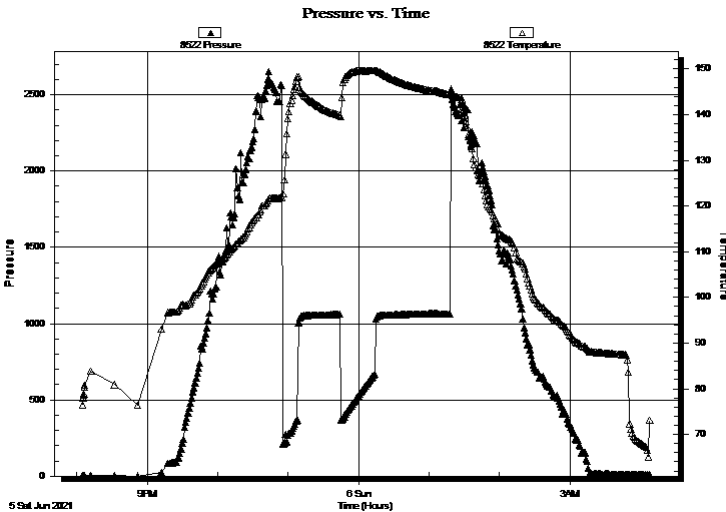
04:08:14

Time On Btm:

Time Off Btm:

TEST COMMENT: 15- IF: BOB @ 4 min.- 39" blow .  
 30- IS: No return.  
 30- FF: BOB @ 5 min. 83"  
 60- FS: No return.

## PRESSURE SUMMARY



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

## Recovery

Length (ft)	Description	Volume (bbl)
1450.00	mcw 5m 95w	18.73

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

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

**28-16s-41w Greeley,KS**  
**Sunray #1-28**  
Job Ticket: 66995 **DST#: 4**  
Test Start: 2021.06.05 @ 20:05:00

## Tool Information

Drill Pipe:	Length: 4796.00 ft	Diameter: 3.80 inches	Volume: 67.28 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 177.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 68.15 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4968.00 ft			Final 69000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	47.00 ft			
Tool Length:	74.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4942.00	
Shut In Tool	5.00		Fluid	4947.00	
Hydraulic tool	5.00			4952.00	
Jars	5.00			4957.00	
Safety Joint	2.00			4959.00	
Packer	5.00		Inside	4964.00	27.00 Bottom Of Top Packer
Packer	4.00			4968.00	
Stubb	1.00			4969.00	
Recorder	0.00	8522	Inside	4969.00	
Recorder	0.00	8319	Outside	4969.00	
Perforations	10.00			4979.00	
Change Over Sub	1.00			4980.00	
Drill Pipe	31.00			5011.00	
Change Over Sub	1.00			5012.00	
Bullnose	3.00			5015.00	47.00 Bottom Packers & Anchor

**Total Tool Length: 74.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

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

**28-16s-41w Greeley,KS**  
**Sunray #1-28**  
 Job Ticket: 66995      **DST#: 4**  
 Test Start: 2021.06.05 @ 20:05:00

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6400.00 ppm			
Filter Cake: 2.00 inches			

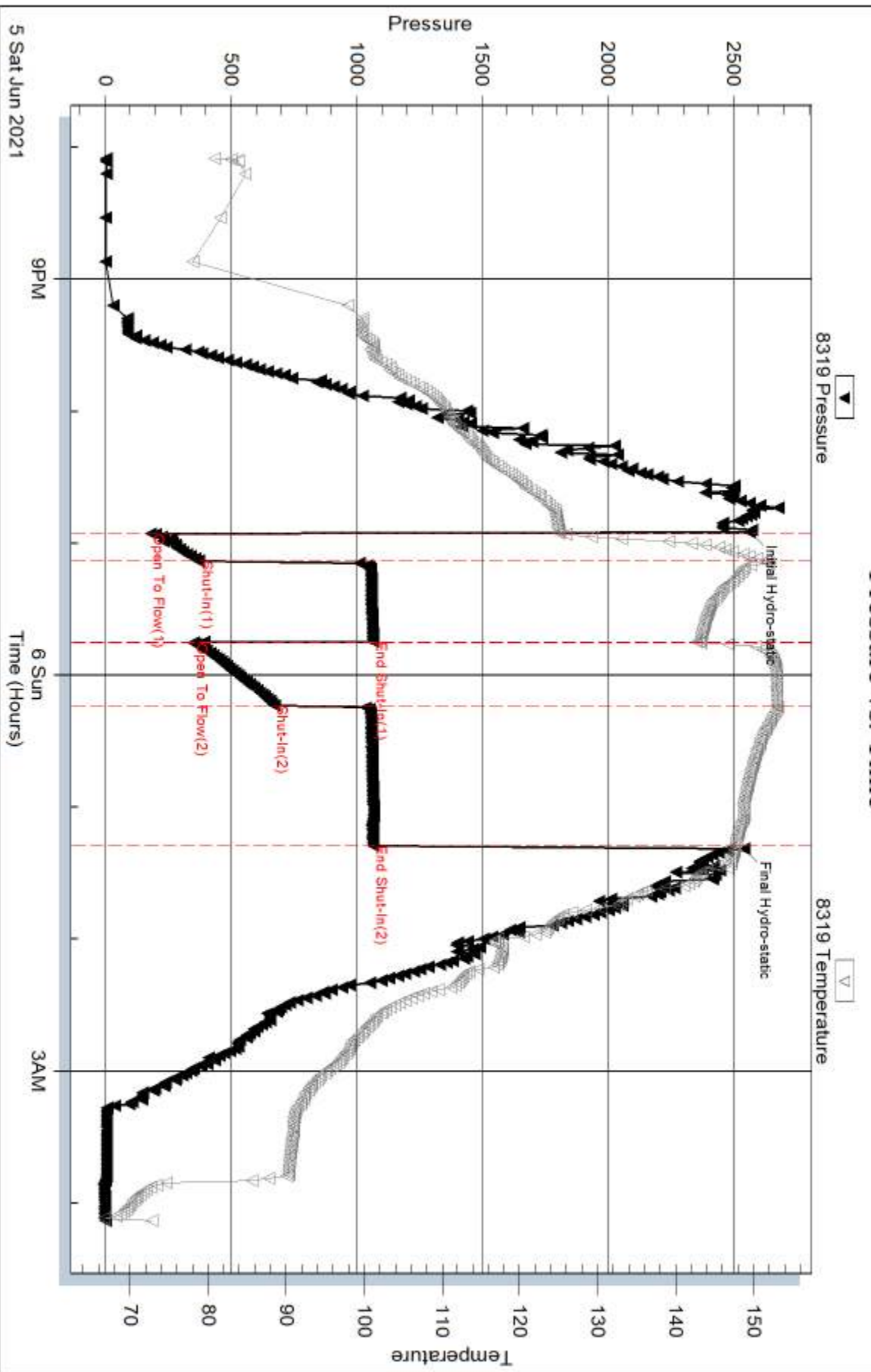
### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1450.00	mcw 5m 95w	18.727

Total Length: 1450.00 ft      Total Volume: 18.727 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: rw is .171 @ 63f = 53000ppm

### Pressure vs. Time



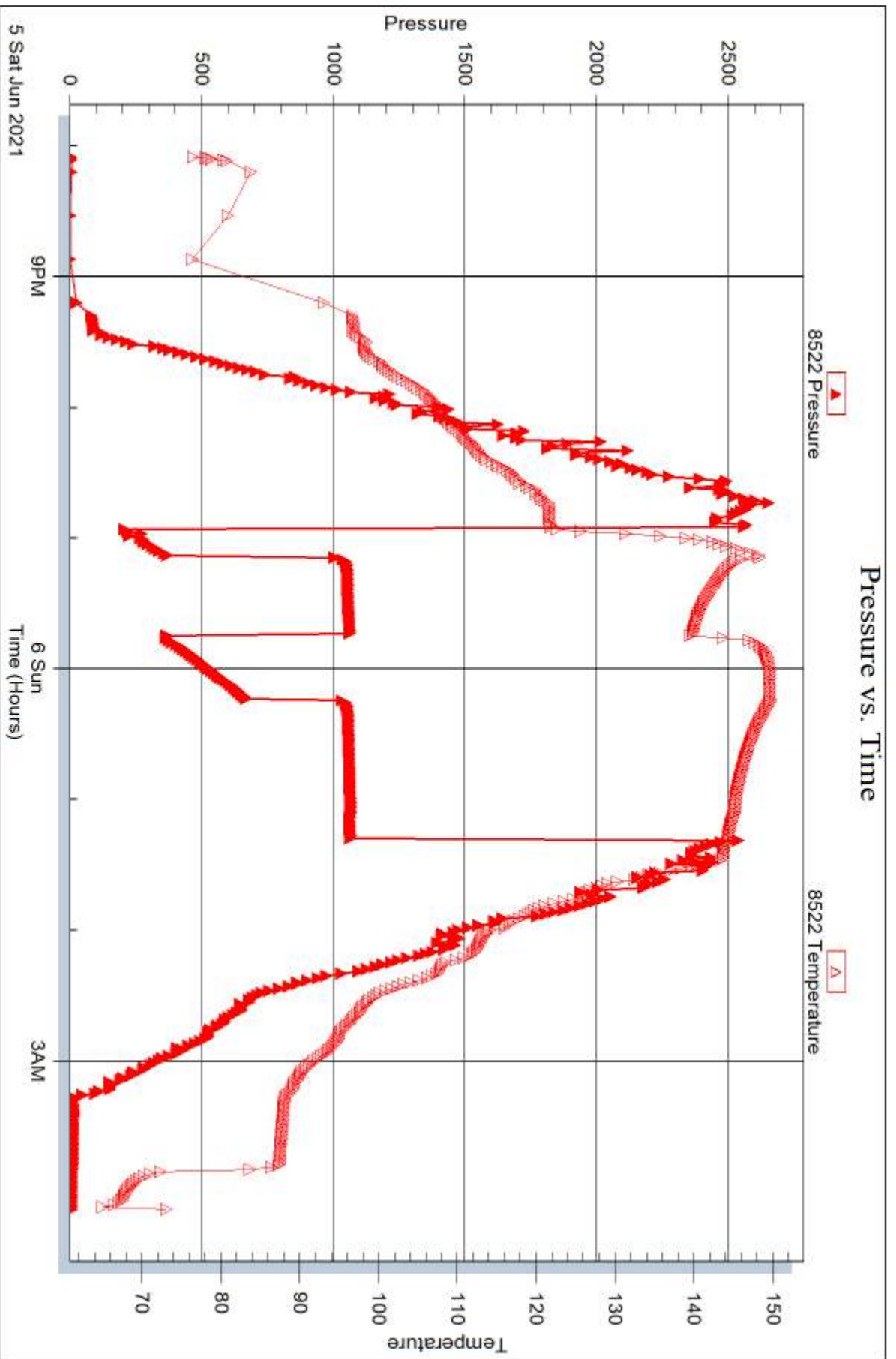
Serial #: 8522

Inside

Carmen Schmitt, Inc

Sunray #1-28

DST Test Number: 4





## DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc**

PO Box 47  
Great Bend, KS 67530

ATTN: Brad Rine

### **Sunray #1-28**

#### **28-16s-41w Greeley,KS**

Start Date: 2021.06.06 @ 15:50:00

End Date: 2021.06.07 @ 01:01:23

Job Ticket #: 66996                      DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2021.06.08 @ 13:16:38



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

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

**28-16s-41w Greeley, KS**

**Sunray #1-28**

Job Ticket: 66996

**DST#: 5**

Test Start: 2021.06.06 @ 15:50:00

## GENERAL INFORMATION:

Formation: **L Morrow**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 18:31:30  
 Time Test Ended: 01:01:23  
 Interval: **5053.00 ft (KB) To 5084.00 ft (KB) (TVD)**  
 Total Depth: 5084.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Bradley Walter  
 Unit No: 78  
 Reference Elevations: 3769.00 ft (KB)  
 3761.00 ft (CF)  
 KB to GR/CF: 8.00 ft

## Serial #: 8319

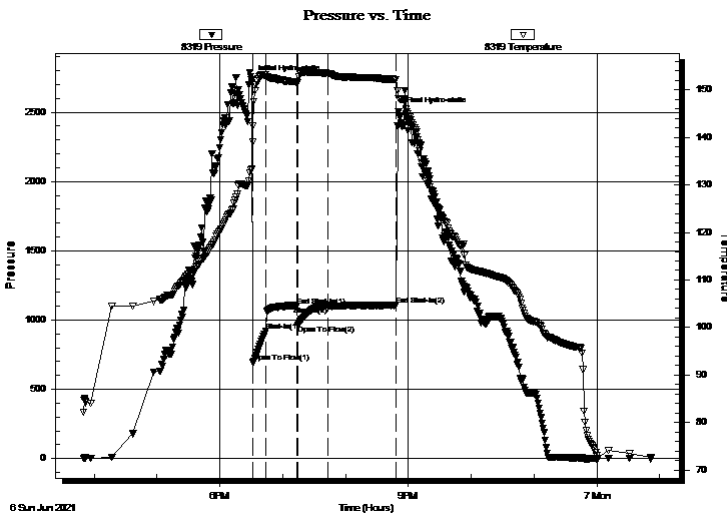
**Outside**

Press@RunDepth: 1101.71 psig @ 5054.00 ft (KB)  
 Start Date: 2021.06.06 End Date: 2021.06.07  
 Start Time: 15:50:05 End Time: 01:01:22  
 Capacity: 8000.00 psig  
 Last Calib.: 2021.06.07  
 Time On Btm: 2021.06.06 @ 18:30:15  
 Time Off Btm: 2021.06.06 @ 20:50:45

TEST COMMENT: 15- IF: BOB @ 1 min. 187"  
 30- IS: No return.  
 30- FF: BOB @ 1.5 min- 74"  
 60- FS: No return.

## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2737.82	133.28	Initial Hydro-static
2	697.94	139.03	Open To Flow (1)
14	918.11	153.20	Shut-In(1)
44	1101.10	151.61	End Shut-In(1)
45	961.26	151.56	Open To Flow (2)
73	1101.71	153.47	Shut-In(2)
139	1107.02	152.22	End Shut-In(2)
141	2505.98	148.23	Final Hydro-static



## Recovery

Length (ft)	Description	Volume (bbl)
2450.00	mcw 3m 97w	32.75

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

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

**28-16s-41w Greeley,KS**

**Sunray #1-28**

Job Ticket: 66996

**DST#: 5**

Test Start: 2021.06.06 @ 15:50:00

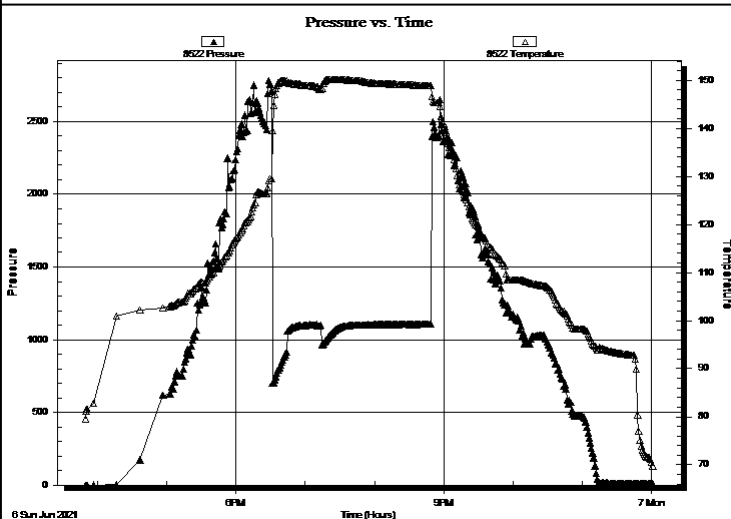
### GENERAL INFORMATION:

<b>Formation:</b> L Morrow	<b>Test Type:</b> Conventional Bottom Hole (Reset)
<b>Deviated:</b> No Whipstock: ft (KB)	<b>Tester:</b> Bradley Walter
<b>Time Tool Opened:</b> 18:31:30	<b>Unit No:</b> 78
<b>Time Test Ended:</b> 01:01:23	
<b>Interval:</b> 5053.00 ft (KB) To 5084.00 ft (KB) (TVD)	<b>Reference Elevations:</b> 3769.00 ft (KB)
<b>Total Depth:</b> 5084.00 ft (KB) (TVD)	3761.00 ft (CF)
<b>Hole Diameter:</b> 7.88 inches	<b>KB to GR/CF:</b> 8.00 ft
<b>Hole Condition:</b> Good	

**Serial #: 8522**     **Inside**

<b>Press@RunDepth:</b> psig @ 5054.00 ft (KB)	<b>Capacity:</b> 8000.00 psig
<b>Start Date:</b> 2021.06.06 <b>End Date:</b> 2021.06.07	<b>Last Calib.:</b> 2021.06.07
<b>Start Time:</b> 15:50:05 <b>End Time:</b> 00:01:29	<b>Time On Btm:</b>
	<b>Time Off Btm:</b>

**TEST COMMENT:** 15- IF: BOB @ 1 min. 187"  
 30- IS: No return.  
 30- FF: BOB @ 1.5 min- 74"  
 60- FS: No return.



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
2450.00	mcw 3m 97w	32.75

### Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

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

**28-16s-41w Greeley,KS**  
**Sunray #1-28**  
 Job Ticket: 66996 **DST#: 5**  
 Test Start: 2021.06.06 @ 15:50:00

**Tool Information**

Drill Pipe:	Length: 4858.00 ft	Diameter: 3.80 inches	Volume: 68.14 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 177.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 69.01 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	5053.00 ft			Final 75000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	31.00 ft			
Tool Length:	58.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Change Over Sub	1.00			5027.00	
Shut In Tool	5.00		Fluid	5032.00	
Hydraulic tool	5.00			5037.00	
Jars	5.00			5042.00	
Safety Joint	2.00			5044.00	
Packer	5.00		Inside	5049.00	27.00 Bottom Of Top Packer
Packer	4.00			5053.00	
Stubb	1.00			5054.00	
Recorder	0.00	8522	Inside	5054.00	
Recorder	0.00	8319	Outside	5054.00	
Perforations	27.00			5081.00	
Bullnose	3.00			5084.00	31.00 Bottom Packers & Anchor

**Total Tool Length: 58.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

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

**28-16s-41w Greeley,KS**  
**Sunray #1-28**  
Job Ticket: 66996      **DST#: 5**  
Test Start: 2021.06.06 @ 15:50:00

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 61000 ppm
Viscosity: 59.00 sec/qt	Cushion Volume: bbl	
Water Loss: 9.59 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 7000.00 ppm		
Filter Cake: 1.00 inches		

### Recovery Information

Recovery Table

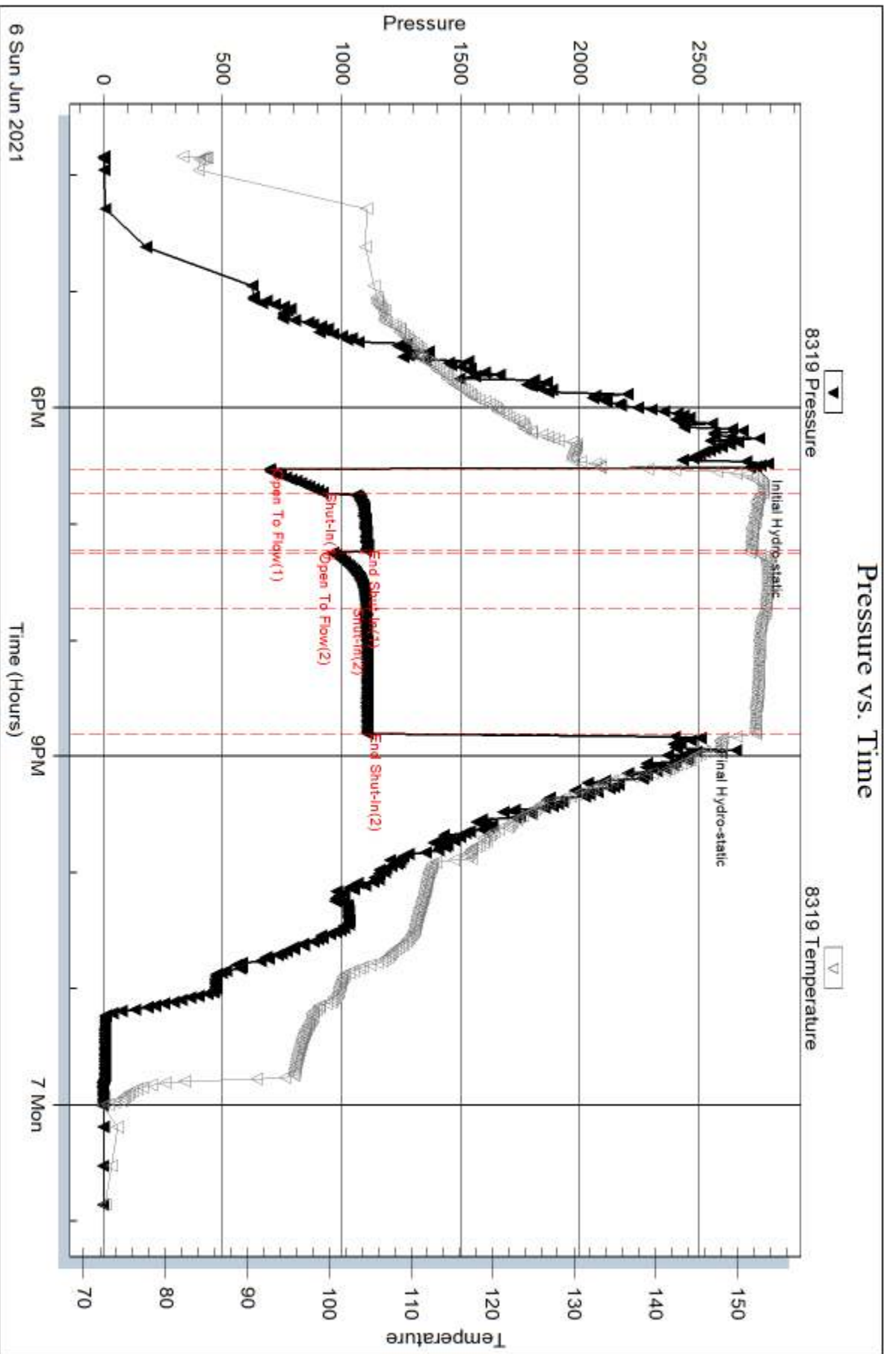
Length ft	Description	Volume bbl
2450.00	mcw 3m 97w	32.755

Total Length: 2450.00 ft      Total Volume: 32.755 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: rw is .123 @ 71f = 61000ppm



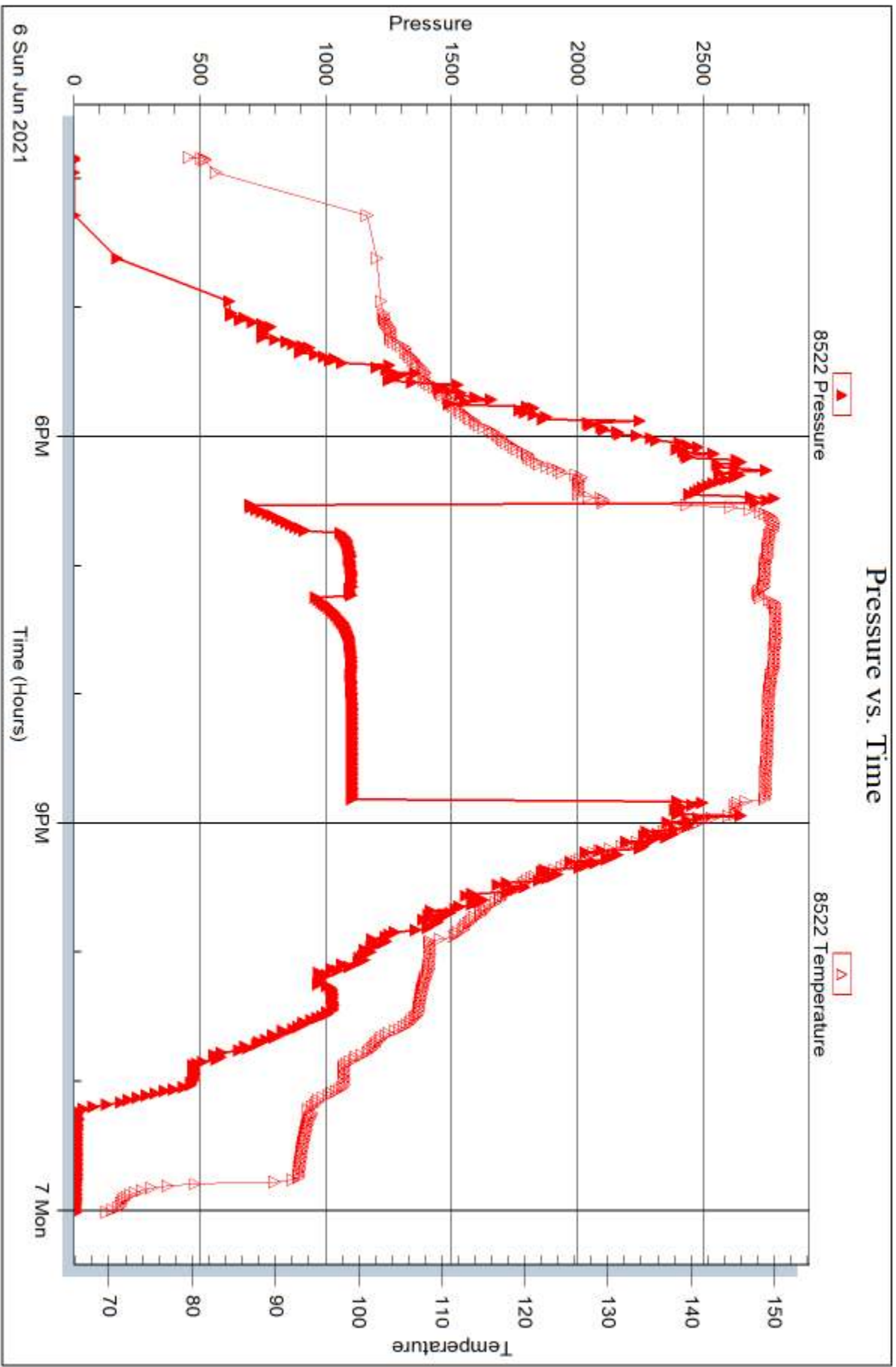
Serial #: 8522

Inside

Carmen Schmitt, Inc

Sunray #1-28

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 66996

Printed: 2021.06.08 @ 13:16:39



# TRIBOLITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **66992**

Well Name & No. SUNRAY 1-28 Test No. 1 Date 06/01/2021  
 Company Carmen Schmitt Elevation 3769 KB 3761 GL  
 Address PO Box 47 Great Bend Ks 67530  
 Co. Rep / Geo. Brad Rine Rig MuAn 112  
 Location: Sec. 28 Twp 16S Rge. 41W Co. Greeley State Ks

Interval Tested 3864 3882 Zone Tested Toronto "B"  
 Anchor Length 18' Drill Pipe Run 3673 Mud Wt. 8.9  
 Top Packer Depth 3859 Drill Collars Run 177 Vis 56  
 Bottom Packer Depth 3864 Wt. Pipe Run 0 WL 8.0  
 Total Depth 3882 Chlorides 4,000 ppm System LCM 2#

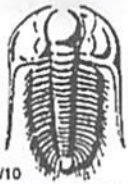
Blow Description IF 18" blow  
ISI No return  
FF 13" blow  
FSI No return

Rec	Feet of	Thin	%gas	%oil	%water	%mud
<u>25</u>	<u>Mud</u>	<u>Thin</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 25 BHT 118 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>1880</u>	<input checked="" type="checkbox"/> Test <u>1200</u>	T-On Location <u>0530</u>
(B) First Initial Flow <u>28</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0536</u>
(C) First Final Flow <u>37</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0900</u>
(D) Initial Shut-In <u>897</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1045</u>
(E) Second Initial Flow <u>38</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1228</u>
(F) Second Final Flow <u>40</u>	<input checked="" type="checkbox"/> Mileage <u>141RT</u> 176.25	Comments
(G) Final Shut-In <u>800</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1838</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> EM Tool
Initial Open <u>15</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>1701.25</u>
	Sub Total <u>1701.25</u>	MP/DST Disc't

Approved By \_\_\_\_\_ Our Representative [Signature]  
 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.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 66993

4/10

Well Name & No. Sunray #1-28 Test No. 2 Date 06/02/2024  
 Company Carmen Schmitt Inc Elevation 3769 KB 374 GL  
 Address PO Box 47 Great Bend Ks  
 Co. Rep / Geo. Brad Rine Rig MAA 112  
 Location: Sec. 28 Twp 16S Rge. 41W Co. Greeley State KS

Interval Tested 3864-3918 Zone Tested Toronto  
 Anchor Length 39 54' Drill Pipe Run 5763 Mud Wt 8.9  
 Top Packer Depth 3859 Drill Collars Run 177 Vis 52  
 Bottom Packer Depth 3864 Wt. Pipe Run 0 WL 8.0  
 Total Depth 3918 Chlorides 4000 ppm System LCM 2#

Blow Description IF BOB @ 12 min - 10.8"  
ISF No return.  
FF BOB @ 14 min - 34.7"  
FSI No return.

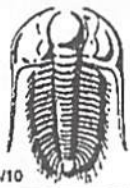
Rec	Feet of	%gas	%oil	%water	%mud
<u>480</u>	<u>mcw</u>			<u>85</u>	<u>15</u>
	<u>H2S detected</u>				

Rec Total 480 BHT 121 Gravity — API RW 184 @ 62 °F Chlorides 44,000 ppm

(A) Initial Hydrostatic <u>1904</u>	<input checked="" type="checkbox"/> Test <u>1200</u>	T-On Location <u>1730</u>
(B) First Initial Flow <u>47</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1845</u>
(C) First Final Flow <u>132</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>2120</u>
(D) Initial Shut-In <u>950</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>2355</u>
(E) Second Initial Flow <u>135</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0323</u>
(F) Second Final Flow <u>267</u>	<input checked="" type="checkbox"/> Mileage <u>141 RT</u> 176.25	Comments
(G) Final Shut-In <u>952</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1829</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> EM Tool
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>1701.25</u>
	Sub Total <u>1701.25</u>	MP/DST Disc't

Approved By \_\_\_\_\_ Our Representative [Signature]

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



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 66994

Well Name & No. Sunray #1-28 Test No. 3 Date 06/05/2021  
 Company Carmen Schmitt Inc Elevation 3769 KB 3761 GL  
 Address Brad Rine Great Bend  
 Co. Rep / Geo. Brad Rine Rig Martin 112  
 Location: Sec. 28 Twp 16S Rge. 41W Co. Greeley State Ks

Interval Tested 4968-5000 Zone Tested U Marrow  
 Anchor Length 32 Drill Pipe Run 4796 Mud Wt. 9.4  
 Top Packer Depth 4963 Drill Collars Run 179 Vis 51  
 Bottom Packer Depth 4968 Wt. Pipe Run 0 WL 8.8  
 Total Depth 5000 Chlorides 6400 ppm System LCM 2#  
 Blow Description IF 1/2" blow  
ISI No return  
FP No blow  
Pulled test

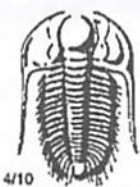
Rec	Feet of	%gas	%oil	%water	%mud
<u>8</u>	<u>mod</u>			<u>100</u>	
	<u>oil spots in tool</u>				

Rec Total 8 BHT 131 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2524</u>	<input checked="" type="checkbox"/> Test <u>1300</u>	T-On Location <u>0500</u>
(B) First Initial Flow <u>44</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0535</u>
(C) First Final Flow <u>40</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0911</u>
(D) Initial Shut-In <u>50</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1005</u>
(E) Second Initial Flow <u>40 49</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1227</u>
(F) Second Final Flow <u>51</u>	<input checked="" type="checkbox"/> Mileage <u>141 RT</u> 176.25	Comments
(G) Final Shut-In <u>53</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2402</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> EM Tool
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>1701.25</u>
	Sub Total <u>1701.25</u>	MP/DST Disc't

Approved By \_\_\_\_\_ Our Representative [Signature]

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



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 66995

Well Name & No. Sunray #1-28 Test No. 4 Date 06/05/2021  
 Company Carmen Schmitt, Inc Elevation 3769 KB 3761 GL  
 Address Great Bend, Ks  
 Co. Rep / Geo. Brad Rine Rig Mudlin 112  
 Location: Sec. 28 Twp 16s Rge. 41w Co. Greeley State Ks

Interval Tested 4968-5015 Zone Tested Mid - Morrow  
 Anchor Length 47 Drill Pipe Run 4796 Mud Wt. 9.2  
 Top Packer Depth 4963 Drill Collars Run 178 Vis 54  
 Bottom Packer Depth 4968 Wt. Pipe Run 0 WL 8.8  
 Total Depth 5015 Chlorides 6400 ppm System LCM 2#  
 Blow Description IF BOB @ 4min - 39"  
ISI No return.  
IF BOB @ 5min - 85"  
FSI No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>1450</u>	<u>mcw</u>		<u>9.5</u>	<u>5</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 1450 BHT 148 Gravity — API RW 171 @ 63 °F Chlorides 54000 ppm

(A) Initial Hydrostatic <u>2565</u>	<input checked="" type="checkbox"/> Test <u>1400</u>	T-On Location <u>1900</u>
(B) First Initial Flow <u>181</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>2005</u>
(C) First Final Flow <u>372</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>2240</u>
(D) Initial Shut-In <u>1065</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>0102</u>
(E) Second Initial Flow <u>351</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0408</u>
(F) Second Final Flow <u>672</u>	<input checked="" type="checkbox"/> Mileage <u>142 RT</u> <u>176.25</u>	Comments
(G) Final Shut-In <u>1065</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2541</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> EM Tool
Initial Open <u>15</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>1801.25</u>
	Sub Total <u>1801.25</u>	MP/DST Disc't

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





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 66996

Well Name & No. Sunray #1-28 Test No. 5 Date 06/06/2021  
 Company Carmen Schmitt, Inc Elevation 3769 KB 3761 GL  
 Address Great Bend KS  
 Co. Rep / Geo. Brad Rine Rig Martin 112  
 Location: Sec. 28 Twp 16S Rge. 44W Co. Greeley State KS

Interval Tested 5053 - 5084 Zone Tested L Morrow  
 Anchor Length 31 Drill Pipe Run 4858 Mud Wt. 9.4  
 Top Packer Depth 5048 Drill Collars Run 180 Vis 59  
 Bottom Packer Depth 5053 Wt. Pipe Run Ø WL 9.6  
 Total Depth 5084 Chlorides 7000 ppm System LCM 2<sup>nd</sup>

Blow Description TF BOB @ 1 min - 187"  
ISI No return.  
FF BOB @ 1.5 min 74"  
FST No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>2450</u>	<u>ncw</u>			<u>97</u>	<u>3</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 2450 BHT 153 Gravity — API RW 123 @ 71 °F Chlorides 64000 ppm  
 (A) Initial Hydrostatic 2737  Test 1400 T-On Location 1500  
 (B) First Initial Flow 697  Jars 250 T-Started 1550  
 (C) First Final Flow 918  Safety Joint 75 T-Open 1832  
 (D) Initial Shut-In 1101  Circ Sub used 50 T-Pulled 2048  
 (E) Second Initial Flow 961  Hourly Standby \_\_\_\_\_ T-Out 0001 06p7  
 (F) Second Final Flow 1101  Mileage 142 RT yr 176.25+176.25 Comments P/O Tool 0300 06/08  
 (G) Final Shut-In 1107  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2505  Straddle \_\_\_\_\_  EM Tool \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Day Standby \_\_\_\_\_ Sub Total 0  
 Accessibility \_\_\_\_\_ Total 2127.50  
 Sub Total 2127.50 MP/DST Disc't \_\_\_\_\_

Initial Open \_\_\_\_\_ 15  
 Initial Shut-In \_\_\_\_\_ 30  
 Final Flow \_\_\_\_\_ 30  
 Final Shut-In \_\_\_\_\_ 60

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