

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

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

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

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

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

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

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

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

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

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

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

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

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

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

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

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

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

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

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

Plug Back  Liner  Conv. to GSW  Conv. to Producer

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

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

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

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

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

Spud Date or Date Reached TD Completion Date or Recompletion Date

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

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

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

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

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

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

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

Datum:  NAD27  NAD83  WGS84

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

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

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

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

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

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

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

Multiple Stage Cementing Collar Used?  Yes  No

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

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

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

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

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

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

Location of fluid disposal if hauled offsite:

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

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

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

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

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

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

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

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

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

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

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

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Carmen Schmitt, Inc.
Well Name	BAALMAN 1-23
Doc ID	1516939

All Electric Logs Run

Dual Induction
Micro
Comp Porosity
Sonic

Form	ACO1 - Well Completion
Operator	Carmen Schmitt, Inc.
Well Name	BAALMAN 1-23
Doc ID	1516939

Tops

Name	Top	Datum
Anhydrite	2661	317
Topeka	3834	-856
Heebner Sh.	4035	-1057
Toronto	4056	-1078
Lansing	4072	-1094
B/KC	4329	-1351
Marmaton	4342	-1364
Pawnee Lime	4450	-1472
Ft.Scott	4492	-1514
Cherokee	4514	-1536
Mississippi	4630	-1652



# 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**

Page: 1

INVOICE NUMBER:  
**C60130-IN**

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

**LEASE: BAALMAN 1 23**

DATE	ORDER	SALESMAN	ORDER DATE	PURCHASE ORDER	SPECIAL INSTRUCTIONS	
05/12/2020	60130		05/10/2020	BAALMAN 1 23	NET 30	
QUANTITY	U/M	ITEM NO./DESCRIPTION		D/C	PRICE	EXTENSION
40.00	MI	MILEAGE CEMENT PUMP TRUCK		23.00	4.00	123.20
1.00	EA	PUMP CHARGE SURFACE		23.00	1,100.00	847.00
225.00	SK	60/40 POZ MIX 2% GEL		23.00	11.25	1,949.06
12.00	SK	CALCIUM CHLORIDE		23.00	40.00	369.60
237.00	EA	BULK CHARGE		23.00	1.25	228.11
417.12	MI	BULK TRUCK - TON MILES		23.00	1.10	353.30
		17773.0123 BCP				
		710/43 4189.57				
		"Cement Surface Casing"				
		Well File				
<b>REMIT TO:</b> P.O. BOX 438 HAYSVILLE, KS 67060		COP		Net Invoice:		3,870.27
		FUEL SURCHARGE IS NOT TAXABLE AND IS ADDED TO MILEAGE, PUMP AND OR DELIVERY CHARGES ONLY.		THOMCO Sales Tax:		319.30
RECEIVED BY _____		<b>NET 30 DAYS</b>		<b>Invoice Total:</b>		<b>4,189.57</b>

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.







# COPELAND

## Acid & Cement

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

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 HAYSVILLE, KS 67060  
 (316) 524-1225  
 (316) 524-1027 FAX

**Invoice**

Page: 1

INVOICE NUMBER:  
**C60132-IN**

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

**LEASE: BAALMAN 1-23**

DATE	ORDER	SALESMAN	ORDER DATE	PURCHASE ORDER	SPECIAL INSTRUCTIONS	
05/20/2020	60132		05/19/2020	BAALMAN 1-23	NET 30	
QUANTITY	U/M	ITEM NO./DESCRIPTION		D/C	PRICE	EXTENSION
40.00	MI	MILEAGE CEMENT PUMP TRUCK		23.00	4.00	123.20
1.00	EA	PUMP CHARGE ROTARY PLUG		23.00	1,100.00	847.00
255.00	SK	60/40 POZ MIX 2% GEL		23.00	11.25	2,208.94
5.00	SK	2% ADDITIONAL GEL		23.00	22.00	84.70
64.00	LB	CELLO-FLAKES		23.00	3.00	147.84
1.00	EA	8 5/8" WOOD PLUG		23.00	65.00	50.05
263.00	EA	BULK CHARGE		23.00	1.25	253.14
462.88	MI	BULK TRUCK - TON MILES		23.00	1.10	392.06
<p><i>710/43</i>  <i>19773.0123</i>  <i>BCP Cement to Plug</i>  <i>Well A/c</i></p>						
<b>REMIT TO:</b>		COP		Net Invoice:		4,106.93
P.O. BOX 438 HAYSVILLE, KS 67060		FUEL SURCHARGE IS NOT TAXABLE AND IS ADDED TO MILEAGE, PUMP AND OR DELIVERY CHARGES ONLY.		THOMCO Sales Tax:		326.62
RECEIVED BY _____		<b>NET 30 DAYS</b>		Invoice Total:		<b>4,433.55</b>

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.





TREATMENT REPORT

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

Date 5/19/2020 District GB I.O. No. C60132  
 Company CARMEN SCHMITT  
 Well Name & No. BAALMAN 1-23  
 Location \_\_\_\_\_ Field \_\_\_\_\_  
 County THOMAS State KS

Type Treatment	Amnt.	Type Fluid	Sand Size	Pounds of Sand
Bkdown	_____	_____	_____	_____
	_____	_____	_____	_____
	_____	_____	_____	_____
	_____	_____	_____	_____
Flush	_____	_____	_____	_____

Casing: Size 4 1/2 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	No. ft.	0
from _____	ft. to _____	No. ft. _____	0
from _____	ft. to _____	No. ft. _____	0

Actual Volume of Oil / Water to Load Hole: \_\_\_\_\_ Bbl./Gal.  
 Pump Trucks: No. Used: Std 320 Sp \_\_\_\_\_ Twin \_\_\_\_\_  
 Auxiliary Equipment 360-308T  
 Personnel GREG CLARENCE  
 Auxiliary Tools \_\_\_\_\_  
 Plugging or Sealing Materials: Type \_\_\_\_\_ Gals. \_\_\_\_\_ lb.

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

Company Representative MATT SUCHY Treater GREG CURTIS

TIME	PRESSURES		Total Fluid Pumped	REMARKS
	Tubing	Casing		
4:00				ON LOCATION
				255 SKS 60/40 4% GEL W/ 1/4# PER SACK CELLOFLAKE
				PUMP 50 SKS @ 2675'
				PUMP 100 SKS @ 1665'
				PUMP 50 SKS @ 315'
				PUMP 10 SKS @ 40'
				PLUG RATHOLE WITH 30 SKS
				PLUG MOUSEHOLE WITH 15 SKS
10:15				JOB COMPLETE
				THANK YOU!!!



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

Well Name: Baalman #1-23 - Carmen Schmitt, Inc.  
API: 15-193-21077-00-00  
Location: NE-SW-NW-NE, Section 23-08S-31W  
License Number: KCC #6569  
Spud Date: May 10, 2020  
Surface Coordinates: 750' FNL & 2220' FEL,  
of Section  
Bottom Hole Vertical Wellbore  
Coordinates:  
Ground Elevation (ft): 2968 Ft.  
Logged Interval (ft): 3500 Ft. To: 4700 Ft. Total Depth (ft): RTD 4700 Ft. LTD 4702 Ft.  
Formation: Mississippian at Total Depth  
Type of Drilling Fluid: Chemical

Region: Thomas Co., Kansas  
Drilling Completed: May 19, 2020  
Results: P & A  
Field: Wildcat

Printed by MudLog from WellSight Systems 1-800-447-1534 [www.WellSight.com](http://www.WellSight.com)

Operator

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

Geologist

Name: M. Bradford Rine  
Company: Consulting Geologist, Kansas Lic. #204, Wyo #189, AAPG Cert. #2647  
Address: 100 South Main, Suite #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 "Baalman #1-23", on May 18, 2020.

Respectfully,  
M. Bradford Rine, geologist

## Drilling Information

Rig: Southwind, Rig #8  
Pump: Emsco D-375 6x14  
Drawworks: RMI 550  
Collars: 463', 2-1/4 x 6-1/4  
Drillpipe: 4-1/2" 16.5# XH  
Toolpusher: Frank Rome

Mud: Mudco (Reid Atkins)  
Gas Detector: None  
Drill Stem Tests: Trilobite (Bradley Walter)  
Logs: Pioneer (J. Henrickson)  
Water: Private Water Well ENE of location (landowner pumping over)  
Company Representatives:  
Office: Carmen Schmitt  
Field: NA

## Daily Drilling Status

Date:	Operations/Depth/Comments
05-06-20	MIRT, RU @ 0'
05-07-20	Waiting to Spud @ 0'
05-08-20	Waiting to Spud @ 0'
05-09-20	Waiting to Spud @ 0'
05-10-20	Spud at 9:00 am @ 0'
05-11-20	Drilling @ 1330'
05-12-20	Drilling @ 3364'
05-13-20	Circulating for Samples @ 3856'
05-14-20	Trip in Hole After DST #1 @ 4066'
05-15-20	On Bottom with DST #3 @ 4112'
05-16-20	Drilling @ 4180'
05-17-20	Circulating to Condition Hole for DST #6 @ 4330'
05-18-20	Drilling @ 4571'
05-19-20	Prepare to P&A @ 4700' (Plugging completed at 10:00 am)

	Results: D & A			(Well A) D & A		(Well B) Oil			
	Carmen Schmitt, Inc.			Murfin Drlg Co, Inc.		Carmen Schmitt, Inc.			
	Baalman #1-23			Christenson #1		Steiger Unit #1-35			
	750' FNL & 2220' FEL			330' FSL & 330' FEL		600' FNL & 1250' FEL			
	Sec. 23-08S-31W			Sec. 34-08S-31W		Sec. 35-08S-31W			
	KB 2978			KB 2977		KB 2973		Well A	Well B
Formations	Sample	E-Log	Datum	E-Log	Datum	E-Log	Datum	Comparison(s)	
Anhydrite	2660	2661	317	2600	377	2594	379	-60	-62
B/Anhydrite	2693	2694	284	2632	345	2626	347	-61	-63
Tarkio	3706	3708	-730	3650	-673	3638	-665	-57	-65
Topeka	3834	3834	-856	3778	-801	3764	-791	-55	-65
Oread	3997	3994	-1016	3940	-963	3927	-954	-53	-62
Heebner Sh	4035	4035	-1057	3980	-1003	3969	-996	-54	-61
Toronto	4056	4056	-1078	4005	-1028	3991	-1018	-50	-60
Lansing	4070	4072	-1094	4018	-1041	4003	-1030	-53	-64
Muncie Creek Sh	4190	4193	-1215	4135	-1158	4125	-1152	-57	-63
Stark Sh.	4270	4271	-1293	4221	-1244	4210	-1237	-49	-56
B/Kansas City	4329	4329	-1351	4282	-1305	4264	-1291	-46	-60
Marmaton	4338	4342	-1364	4292	-1315	4276	-1303	-49	-61
Pawnee	4448	4450	-1472	4400	-1423	4372	-1399	-49	-73
Ft. Scott	4490	4492	-1514	4435	-1458	4413	-1440	-56	-74
Cherokee Sh	4512	4514	-1536	4460	-1483	4445	-1472	-53	-64
Cherokee Sd	NP		2978						
Mississippi	4632	4630	-1652	4588	-1611	4566	-1593	-41	-59
Total Depth	4700	4702	-1724	4641	-1664	4666	-1693	-60	-31

## Casing Record, Bit Record, Deviation Surveys

### CASING:

Conductor: None

Surface: Ran 6 jts of new 8-5/8" 20# Casing. Tallied @ 252.65'. Set @ 264.65 ft. (Copeland) Cement with 225 sx 60/40 POZ, 3%CC 2% gel. Cement did circulate. Plug down at 2:00 pm, May 10, 2020.

Production: Plug well as follows: (Copeland) 255 sx 60/40 Poz, 4% gel, 1/4# flo-seal. 50 sx @ 2675', 100 sx @ 1665', 50 sx @ 315', 10 sx @ 40', 30 sx in RH, 15 sx in MH.  
Job Completed at 10:00 am, May 19, 2020.

### BITS:

No.	Size	Make	Model	Depth In	Depth Out	Hours
1	12-1/4	JZ	RR	0	264	2.25
2	7-7/8	PDC Logic	P660SX	264	3458	23.75
3	7-7/8	JZ	GTM20Y	3458	4700	52.50

### DEVIATION SURVEYS:

Deviation:	Depth:	Deviation:	Depth:
0.75*	265'	0.75*	4330'
0.25*	3458'	1.00*	4700'
0.25*	4066'		

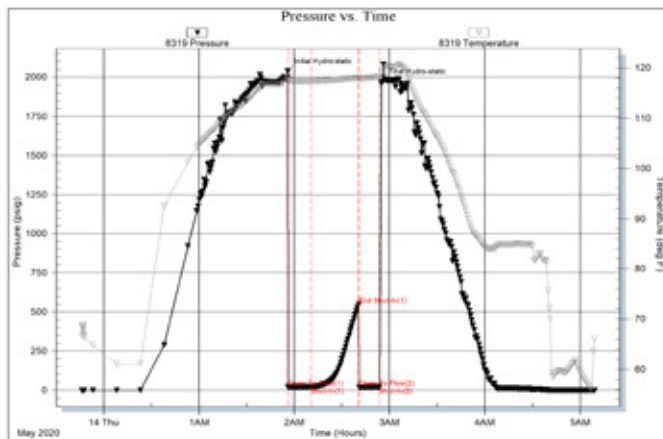
### PIPE STRAPS:

Difference:	Depth:
2.69' long	3458'
3.38' long	4066'

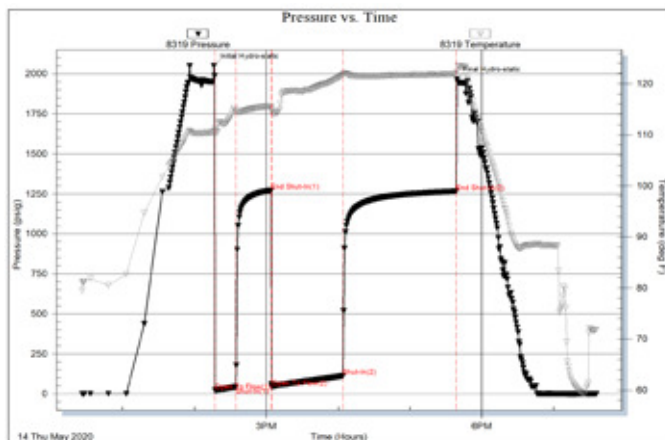
### DISPLACEMENT AND MUDUP:

Begin: 3364'  
Complete: 3433'

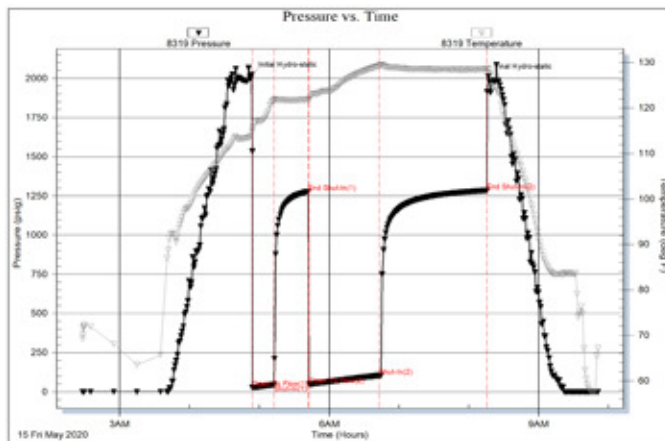
**DST #1: 4033-4066 (Toronto)**  
**Times: 15-30-10-out**  
**Initial Open: Wk Blow, Built to 3/4"**  
**Final Open: None**  
**Rec: 6' mud/oil spots**  
**IHP: 2037 FHP: 1971**  
**IFP: 19-21 FFP: 20-22**  
**ISIP: 549 FSIP: NA**  
**BHT: 118°F**



**DST #2: 4033-4085 (Tor, Lsg A)**  
**Times: 15-30-60-90**  
**Initial Open: Wk Blow, built to 4-1/2"**  
**Final Open: Stg Blow, b.o.b. 45 min, Reached 12.5"**  
**Rec: 195' MCW/oil spots: 70%w 30%m (Chl/Wtr 20,000 ppm)**  
**IHP: 2047 FHP: 1965**  
**IFP: 21-43 FFP: 45-112**  
**ISIP: 1271 FSIP: 1266**  
**BHT: 122°F**

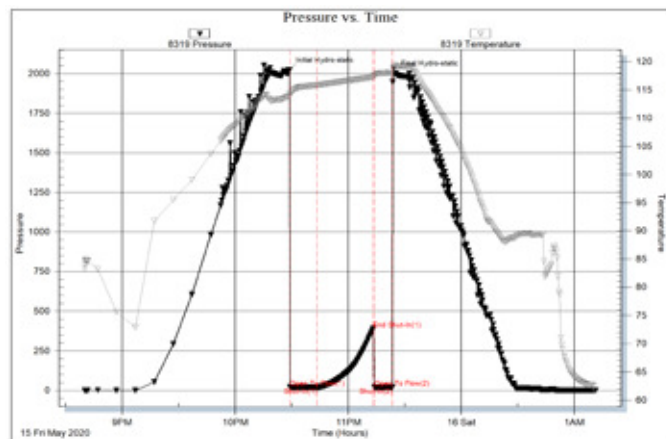


**DST #3: 4079-4112 (Lsg C)**  
**Times: 15-30-60-90**  
**Initial Open: Wk Blow, built to 5-1/2"**  
**Final Open: Stg Blow, b.o.b./10" in 60 min.**  
**Rec: 185' MCW/oil spots: 85%w 15%m (Chl/wtr 24,000 ppm)**  
**IHP: 2022 FHP: 2012**  
**IFP: 27-45 FFP: 47-104**  
**ISIP: 1278 FSIP: 1284**  
**BHT: 127°F**

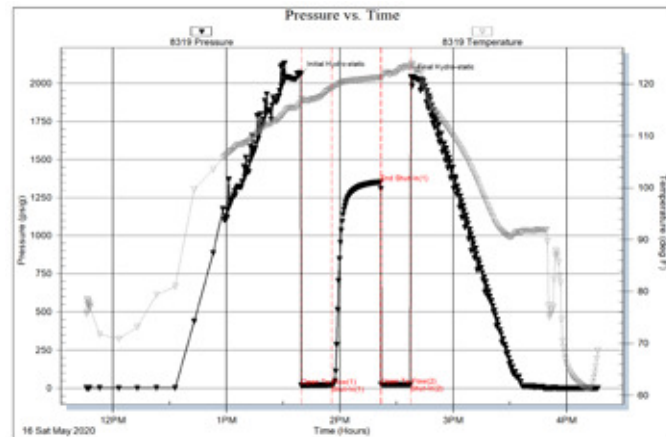




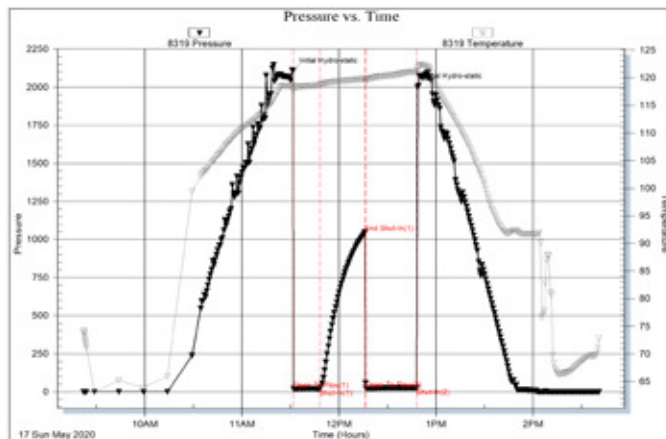
**DST #4: 4109-4155 (Lsg D,E,F)**  
**Times: 15-30-10-out**  
**Initial Open: Wk Blow, built to 3/4"**  
**Final Open: No Blow**  
**Rec: 8' mud/oil spots**  
**IHP: 2022 FHP: 2001**  
**IFP: 20-20 FFP: 20-20**  
**ISIP: 390 FSIP: NA**  
**BHT: 118°F**



**DST #5: 4183-4215 (LKC H)**  
**Times: 15-30-15-out**  
**Initial Open: Wk Blow, built to 3/4"**  
**Final Open: Wk Surf Blow**  
**Rec: 15' mud/oil spots**  
**IHP: 2059 FHP: 2041**  
**IFP: 18-21 FFP: 22-24**  
**ISIP: 1353 FSIP: NA**  
**BHT: 123°F**



**DST #6: 4213-4330 (LKC I,J,K,L)**  
**Times: 15-30-30-out**  
**Initial Open: Wk Blow, built to 1"**  
**Final Open: None**  
**Rec: 15' mud/oil spots on top**  
**IHP: 2107 FHP: 2009**  
**IFP: 20-21 FFP: 23-26**  
**ISIP: 1047 FSIP: NA**  
**BHT: 120°F**



### Rock Types

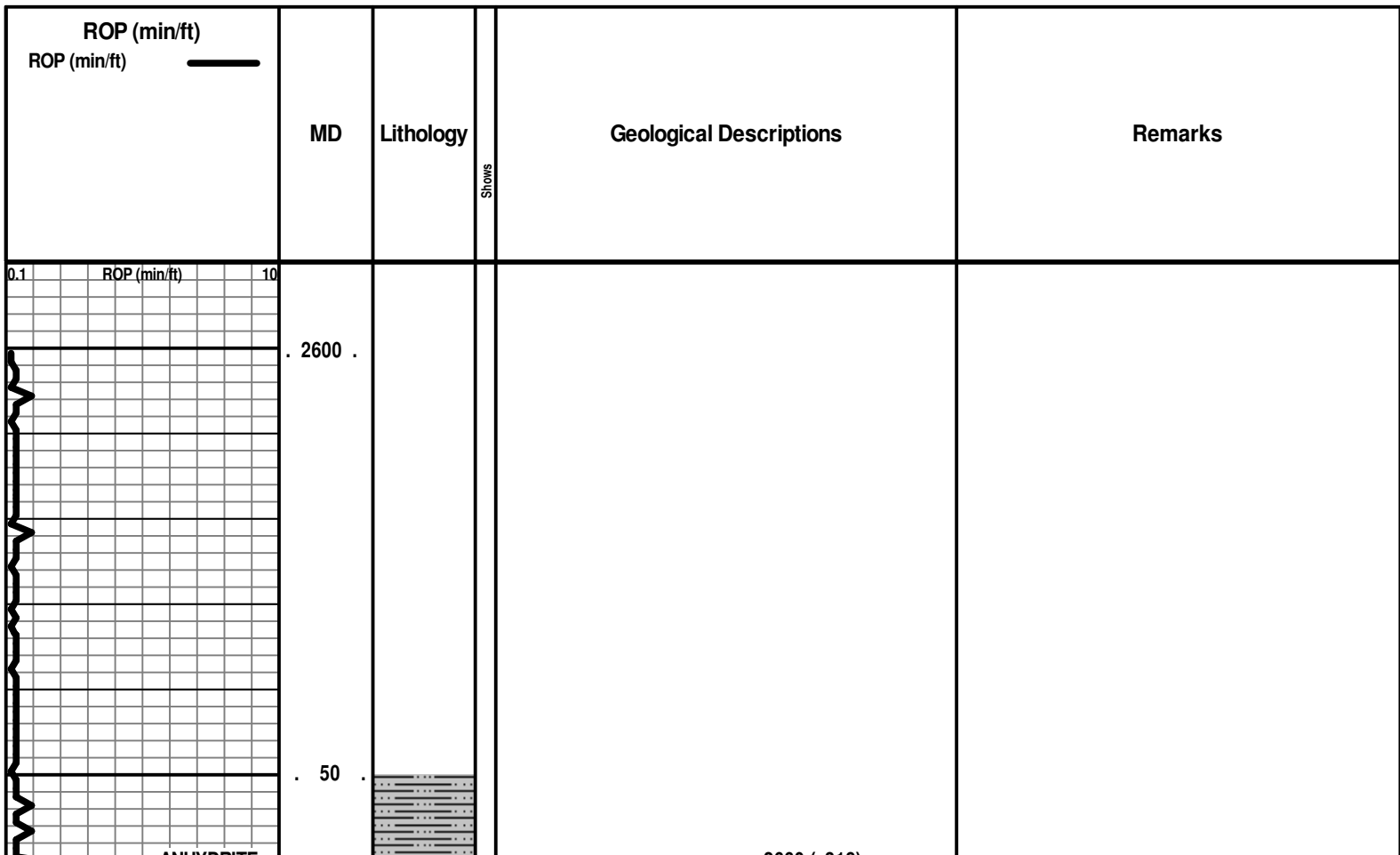
	Cgl/gran wash		Bent		Dol		Salt		Till
	Dol ls/lmy dol		Brec		Gyp		Shale		Siltysh
	New symbol		Cht		Igne		Shcol		Shlysiltst
	Dol ls/lmy dol		Clyst		Lmst		Shgy		Siltst
	New symbol		Blk sh/coal		Meta		Ss		Sandyls
	Anhy		Congl		Mrlst				

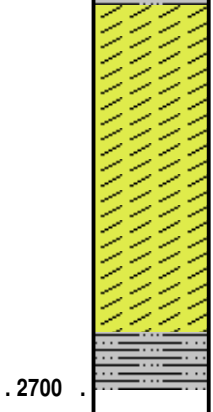
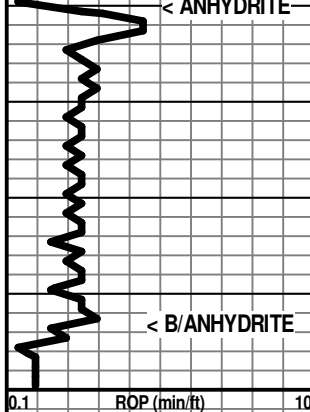
### Accessories

<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		Coal		Microxln
	Dol		Sil		Dol		Mudst
	Feldspar		Sulphur		Gyp		Packst
	Ferrpel		Tuff		Ls		Wackest
	Ferr				Mrst		
	Glau						

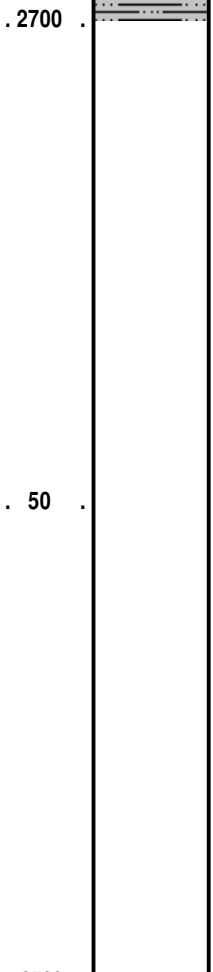
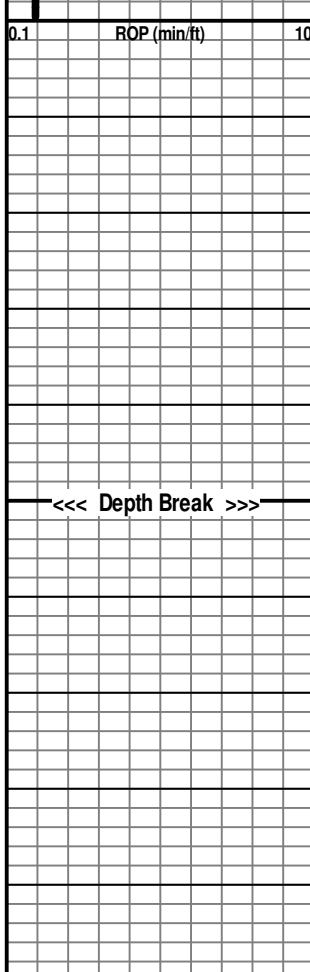
### Other Symbols

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





← 2660 (+318)  
 Anhydrite Interval: based on drill time only!  
 ← 2693 (+285)

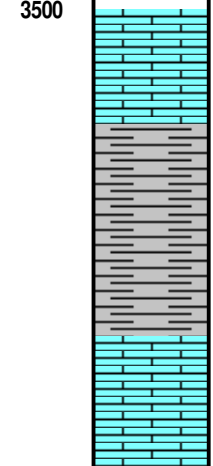
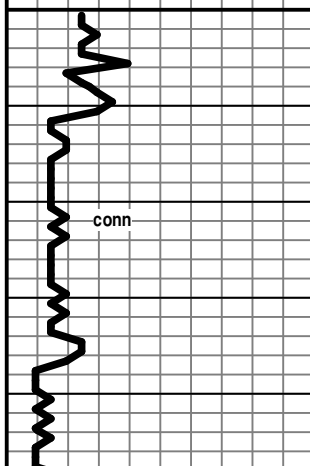


Displace & Mudup:  
 Begin: 3364'  
 Complete: 3433'

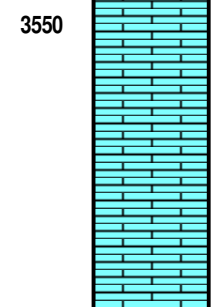
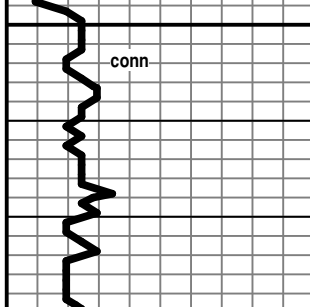
Bit Trip @ 3458 Ft!

Pipe Strap @ 3458 Ft:  
 2.69' Long!

Mud Check, Tripping Bit @ 3458':  
 Vis Wt WL LCM PV YP  
 67 8.6 6.4 2 19 17  
 Chl Hd pH Solids  
 2500 40 11.5 2.0

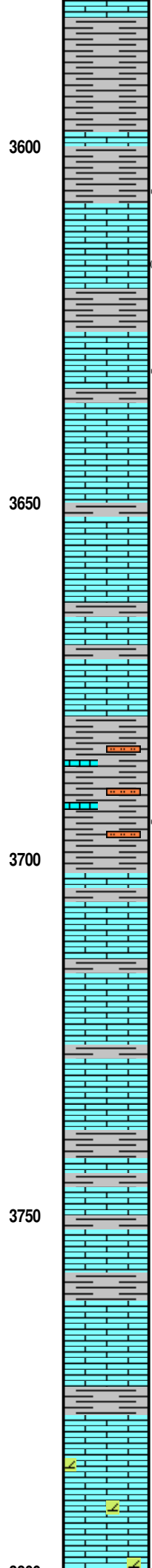
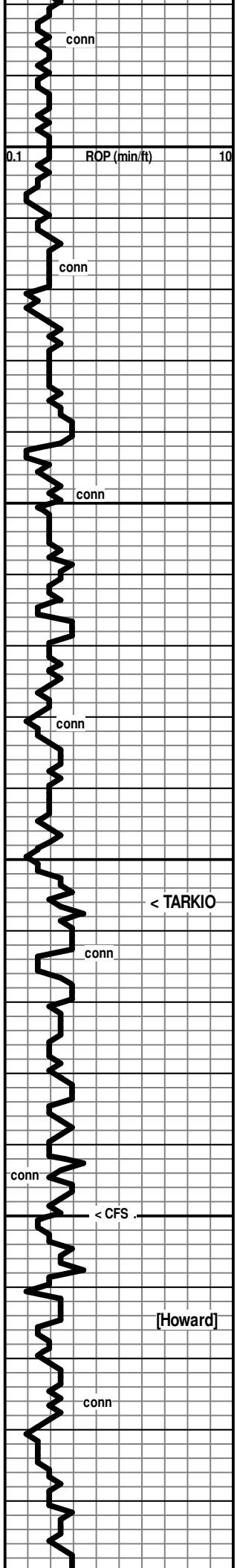


40% Shales gy-dk gy-red-grmish; 60% Ls cr-gy-dk gy, mostly dns, some pr-fr xln por with dolom text, foss in pt



40% Shales gy-dk gy-red-brn, silty in pt; 60% Ls cr-gy-dk gy, some dns, some pr-fr xln por, foss in pt, a few loose pyr pcs

70% Ls cr-tan-brn-gy, fn xln, dns in pt, pr-fr xln por in pt, some subrsucr/dol text, foss in pt; 30% Sh gy-reddish, silty text in pt



30% Sh mostly gy, some red-grnsh; 70% Ls cr-tan-brn-gy, fn xln, dns to pr-fr xln por, foss in pt, Chert: cr, subopaq, spic in pt

3600 70% Ls cr-gy-dk gy, vfn-fn xln, mostly dns, some pr xln por and grainy text, foss in pt; 30% Sh mostly gy-dk gy, some red

Show Descr. —————>

80% Ls sh-cr-gy, fn xln, grainy text in pt, fn xln, subchalky in pt, pr xln por in pt, dns in pt, foss in pt

Ls wh-cr-tan, dolom, fn xln, mostly dns to pr xln por, foss, in pt, some gy-grnsh-reddish shale

3660' spl: Ls wh, fn xln, pr-fr xln por, ool (No show in ool pcs)

3650 3670' spl: 90% Ls wh-cr-gy, fn xln, pr-fr xln por in pt, foss

[No Odor, No fluor, a few pcs with spotty dk brn-blk stn, resid stn to DO stn, NSFO]

90% Ls wh-cr-gy, fn xln, pr-fr xln por in pt, foss to abund foss to packed foss; 10% Sh gy-red

90% Ls wh-cr-gy, fn xln, silty/dolom text in pt, pr-fr xln por in pt, foss to abund foss; 10% Sh gy-red

3700' spl: 70% Shale red-gy-grn, silty in pt, mushy to soft (washes red); 30% Ls wh-gy-grnsh, silty text in pt, dns to pr xln por

3710' spl: 70% mix of silty Ls-limey siltstone and fn xln Ls with pr xln por, foss in pt; 30% Sh as above

[No Odor, No fluor, low % pcs with tan-dk brn-blk spotty stn, with sli shows of resid DO and trace of tan oil film on crush, NSFO]

<----- 3706 (-728)

3720' spl: 30% Siltstone, wh-brn-gy, calc in pt, shaley in pt; 30% Ls cr-gy, fn xln, dns, silty in pt; 30% Sh gy-red-grnsh

Ls cr-gy-brn, fn xln, dns to pr xln por, foss with gy-dk gy shales

3750' spl: 30% Sh gy-dk gy-black; 70% Ls wh-cr-gy, fn xln, chalky in pt, dns to pr xln por in pt, v Rr vugs, foss-some foss weath'd to gy

[No Odor, No fluor, Rr vug stn'd with blk resid/gilson/tarry DO]

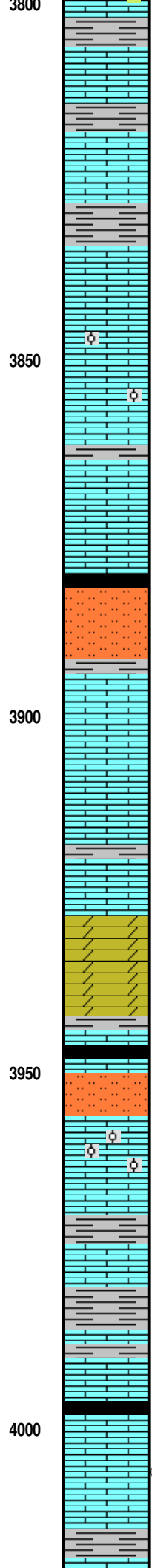
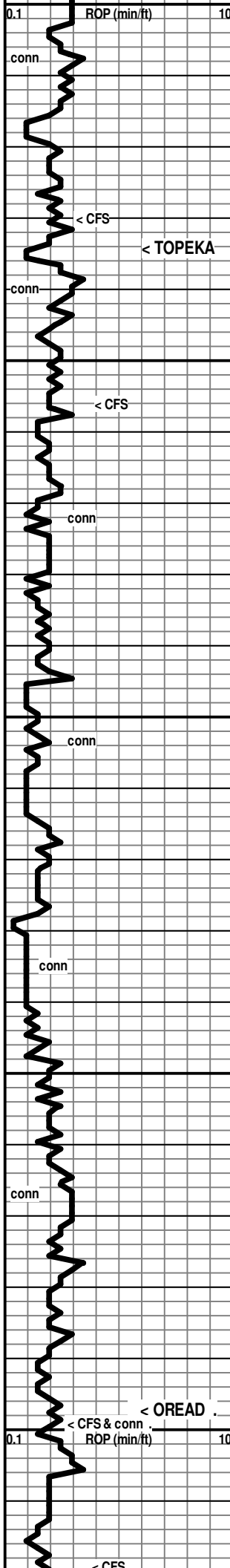
90% Ls wh-cr-tan, fn xln, dns to pr xln por, some subchalky, abund foss

90% Ls wh-cr-tan, fn xln, dns to pr xln por, scatt pp pores & foss mold pores, some subchalky, abund foss

90% Ls wh-cr-tan, fn xln, dns in pt, pr-fr xln por in pt, scatt pp pores & foss mold pores, some subchalky, abund foss

98% Ls wh-cr, fn xln, dolom in pt, pr-fr xln por, scatt pp pores

[3610'-3650' spls: No Odor, No fluor, V Low % of pcs with spotty to patchy dk brn-blk stn, with a mix of trace shows of DO, NVL dk hvy oil, & a few pcs with trace of micro-drops of dk brn FO]



98% Ls cr, fn xln, mostly dns, some pr xln por with scatt pp pores, foss in pt

90% Ls cr-tan, fn xln, pr xln por to dns with scatt pp pores & sm vugs, foss; 10% Sh gy-gnrish-grn

[No Odor, No fluor, a few pcs with blk spotty stn of resid/gilson,NSFO]

85% Ls cr-gy, fn xln, dns to pr xln por, foss to abund foss; 15% Sh gy-grn

← 3834 (-856)

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

[3850' spl: No Odor, Scatt spotty dull fluor, mod am't of pcs with spotty brn-dk brn-blk stn, with trace to sli shows of DO, NVL oil, and Tr fbrn-dk brn FO]

Ls cr-tan, fn xln, dns to pr xln por, ool in pt-well cem. (No show in ool pcs)

Ls wh-cr, fn xln, chalky in pt, pr xln por in pt, dns in pt, foss to abund foss; few % gy-dk gy shale

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

[No odor, No fluor, Rr patches of spotty black stn, resid DO, NSFO]

Ls wh-cr, fn xln, chalky in pt, pr xln por in pt, dns in pt, foss to abund foss; 5% Sh gy-blk-grnsh-red; Mod % pl gy-grnsh-reddish siltstone

Sh gy-red

Ls wh-cr-tan, fn xln, sof & chalky in pt, pr-fr xln por in pt, some dns, scatt pp pores & Rr sm vugs, foss to abund foss

[No Odor, No fluor, few pcs per tray with spotty blk-dk brn stn, some resid/gilsonitic, few pcs with trace dk brk hvy NVL oil, abund barren porosity]

Dol cr-pl tan, fn xln, sucrosic, fr xln por with pp pores, pr-fr crush

Sh gy-dk grn-blk, & Ls cr-tan, fn xln, dns to pr xln por, foss to abund foss

Siltstone, wh-gy, vfn grn calc in pt

Ls cr, fn xln, pr xln por, chalky in pt, ool in pt (crs) with scatt interool pores, foss

Show Descr. →

Sh gy-dk gy-reddish & soft

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

[No Odor, No fluor, few pcs with resid-DO show and tr of FO, Likely from above?]

Sh gy-dk gy-blk-grnsh

Ls wh-cr, fn xln, chalky in pt, pr vis xln por in pt, scatt pp pores, foss

Show Descr. →

Sh black carb

← 3997 (-1019)

Ls wh-cr fn xln, pr-fr xln por in pt, dns in pt, some subchalky, foss, ool in pt (well cem)

[No Odor, No fluor, v low % pcs with dk spotty stn, mostly resid/dead stn, few pcs with trace show of micro-drops dk FO on crush, scatt barren por.]

Mud Check, CFS @ 3856':

Vis	Wt	WL	LCM	PV	YP
59	8.9	7.2	1	17	14
Chl	Hd	pH	Solids		
2400	60	10.5	4.8		

7:00 AM, May 13, 2020

[3970' & 3980' spls: Fnt Odor on crush, No fluor, low to mod % pcs with spots, patches & pores of dk brn-blk stn, some resid/gilson to dk hvy DO, some of NVL Hvy oil, mix of trace to sli shows of brn FO, scatt barren pores]

[No Odor, Rr spots of dull fluor, low % pcs with spotty-patches of spotty dk brn-brn stn, Mix of sli shows of mostly Deadish oil and NVL oil with some brn FO]

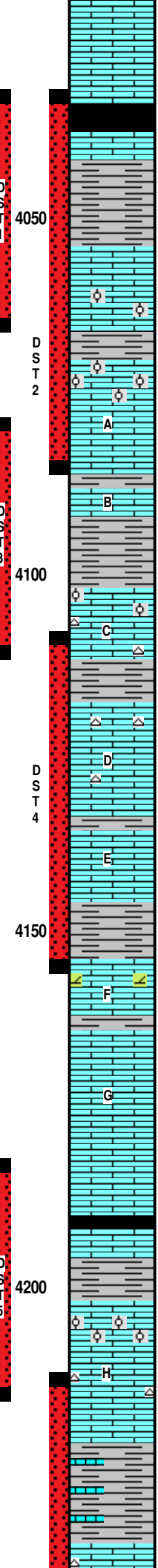
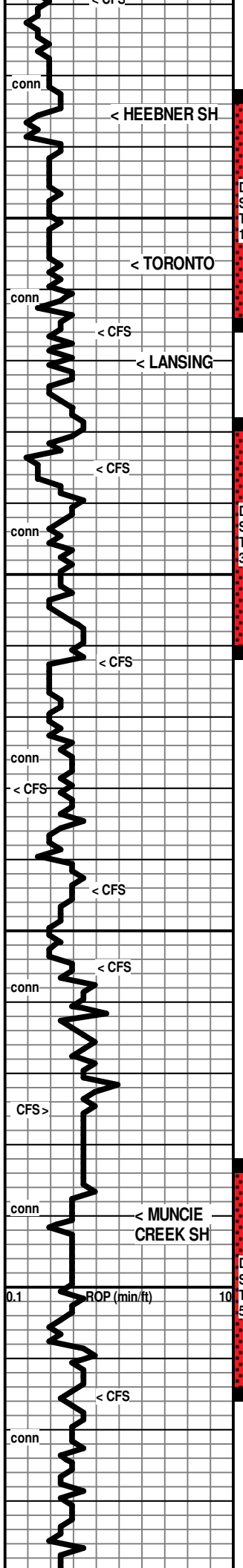
DST #1: 4033-4066 (Toronto)

Times: 15-30-10-out  
Initial Open: Wk Blow, Built to 3/4"

Final Open: None  
Rec: 6' mud/oil spots

IHP: 2037 FHP: 1971  
IFP: 19-21 FFP: 20-22

ISID: 540 ESID: NA



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

Ls cr-gy, dns

← 4035 (-1057)  
Sh black, carb (abund in 4050' spl)  
Ls cr, fn xln, dns, foss in pt

Sh gy-gmish, mushy & calc in pt

← 4056 (-1078)

Ls wh-cr, fn xln, pr vix xln por, mod am't of pp pores & interfoss pores, abund foss with scatt fossmolds, ool in pt with scatt interool pores, some dns ls

Sh gy-grn-red **Show Descr. →**

← 4070 (-1092)  
Ls cr, fn xln, pr vis xln por, chalky in pt, mod am't of vugs & foss moldic pores and vugs, ool in pt with scatt interool pores & vugs, foss in pt, more dns with depth, becoming shaley with tr of grainy 7 sdy pcs  
[Stg Odor, mod % pcs with dull-mod fluor, mod am't pcs with brn-dk brn patchy stn, mix of sli-fr-gd shows of dk brn NVL oil & Brn FO, gassy in pt]

Ls wh-cr, fn xln, chalky in pt, dns to pr xln por in pt  
Sh gy-gmish gy-blk-red

Ls wh-cr, fn xln, mostly pr xln por, Rr fr xln por, scatt pp pores, Rr vugs, chalky to dns in pt, foss with scatt interfoss pores, Rr micro-ool, chert: fresh, wh-gy, opa q foss, becoming dns with depth

**Show Descr. →**

Sh gy-red (washes red)

Ls wh-cr, fn xln, dns to pr xln por with scatt sm vugs & pp pores, abund chert: fresh, cr-tan-or, transl-subtr, foss, become more dns with depth  
[No Odor, Scatt dull-mod spotty-patchy fluor, mix of blk-dk brn-brn stn in vugs & pores, mix of blk res DO, sli dk brn NVL oil and trace to sli shows brn FO, sli gassy in pt]  
Sh gy-dk gy-gmish

Ls wh-cr, fn xln, dns in pt, subchalky in pt, Rr patches of pr xln por, foss  
[No Odor, scatt dull fluor, Rr patches of spotty dk brn-brn stn, with a few pcs with trace of brn FO on crush]

Ls wh-cr, fn xln, subchalky to dolom, pr xln por to dns, foss in pt  
[No Odor, No fluor, Widely scatt patches of blk to V dk brn patchy stn, mostly resid DO stn with Rr trace show FO on crush]

Ls wh-cr-tan, vfn-fn xln, vitreous-subxln text in pt, mostly dns, some chalky, scatt pr xln por, foss in pt

Ls wh-cr-tan, vfn-fn xln, mostly dns, some chalky, scatt pr xln por, scatt sm calcite patches, foss in pt  
7:00 AM, May 16, 2020

← 4190 (-1212)  
Sh black, carb (some in 4200' spl)  
Ls wh-cr-tan-brn, fn xln, chalky in pt, mostly dns, foss, some dirtv/shaley with red marbling  
Sh gy-gmish-dk red

Ls wh-cr, fn xln, subchalky in pt, pr xln por to dns, foss, micro-ool with scatt interool pores, becoming more dns and becoming cherty with depth  
[No Odor, Low % pcs with dull fluor, in ool pcs (low % pcs) lt brn-dk brn stn-mostly patchy, some even, with slight shows of brn NVL oil & lt brn FO, v sli gassy in Rr pt]

Ls wh-cr, fn xln, dns & firm to softer & chalky, foss in pt

Sh gy-dk gy-blk-gmish-some red; abund ls in spls

Ls wh-cr-tan, vfn-fn xln, mostly dns, some pr xln por, chalky in pt, foss in pt. Chert: fresh transl cr-tan

ISIP: 349 FSIP: NA  
BHT: 118°F

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DST #2: 4033-4085 (Tor, Lsg A)  
Times: 15-30-60-90  
Initial Open: Wk Blow, built to 4-1/2"  
Final Open: Stg Blow, b.o.b. 45 min,  
Reached 12.5"  
Rec: 195' MCW/oil spots: 70%w 30%  
(Chl/Wtr 20,000 ppm)  
IHP: 2047 FHP: 1965  
IFP: 21-43 FFP: 45-112  
ISIP: 1271 FSIP: 1266  
BHT: 122°F

[Toronto: Mild Odor, mod am't of dull-mod fluor, low to mod % of pcs with spotty-patchy brn to dk brn stn, with sli-fr shows of hvy NVL oil and brn-dk brn FO, sli gassy in pt]  
7:00 AM, May 14, 2020

Mud Check, CTCH after DST1 @ 4066':  
Vis Wt WL LCM PV YP  
63 9.3 8.8 1 19 15  
Chl Hd pH Solids  
4000 120 10.0 5.8  
\*Jet Pit, Add Premix!

---

[Lsg C: Mod+ Odor, abund mod-brt fluor, mod am't pcs with spotty-patchy lt brn-brn stn, Rr even stn, with sli-fr shows of NVL brn oil & lt brn gassy FO, a few vugs filled with dk hvy deadish oil]  
7:00 AM, May 15, 2020

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DST #3: 4079-4112 (Lsg C)  
Times: 15-30-60-90  
Initial Open: Wk Blow, built to 5-1/2"  
Final Open: Stg Blow, b.o.b./10" in 60 min.  
Rec: 185' MCW/oil spots: 85%w 15%  
(Chl/wtr 24,000 ppm)  
IHP: 2022 FHP: 2012  
IFP: 27-45 FFP: 47-104  
ISIP: 1278 FSIP: 1284  
BHT: 127°F

Mud Check, TOOH/DST3 @ 4112':  
Vis Wt WL LCM PV YP  
54 9.4 7.2 1 13 15  
Chl Hd pH Solids  
5000 60 10.5 7.4  
\*Jet Pit, Add Premix!

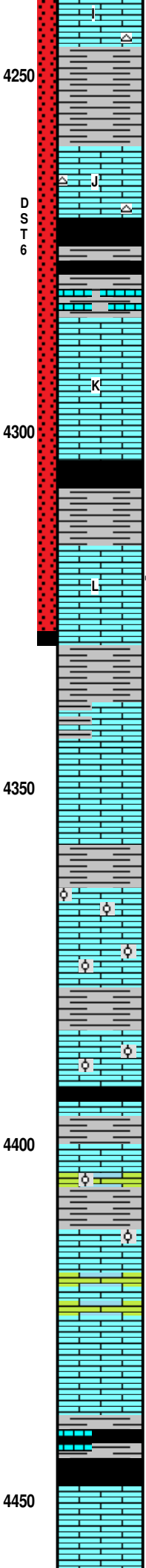
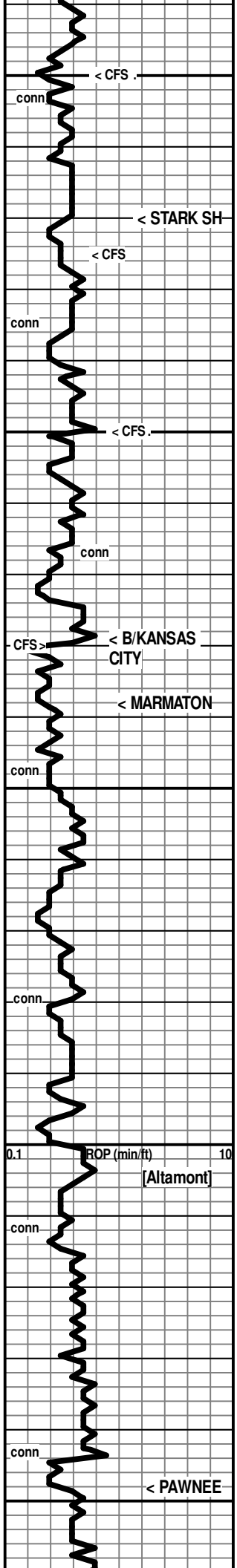
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DST #4: 4109-4155 (Lsg D,E,F)  
Times: 15-30-10-out  
Initial Open: Wk Blow, built to 3/4"  
Final Open: No Blow  
Rec: 8' mud/oil spots  
IHP: 2022 FHP: 2001  
IFP: 20-20 FFP: 20-20  
ISIP: 390 FSIP: NA  
BHT: 118°F

---

DST #5: 4183-4215 (LKC H)  
Times: 15-30-15-out  
Initial Open: Wk Blow, built to 3/4"  
Final Open: Wk Surf Blow  
Rec: 15' mud/oil spots  
IHP: 2059 FHP: 2041  
IFP: 18-21 FFP: 22-24  
ISIP: 1353 FSIP: NA  
BHT: 123°F

Mud Check, TOOH for DST5 @ 4215':  
Vis Wt WL LCM PV YP  
52 9.3 8.0 1 16 19  
Chl Hd pH Solids  
4500 80 10.5 6.5



[No Odor, scatt spotty-patchy dull fluor, low+ % pcs with lt brn patches of spotty stn, Rr trace of micro-drops lt brn FO on crush]

Sh gy-grn-red (washes red)

Ls wh-cr-tan, v fn-fn xln, mostly dns, Rr patches of pr xln por, some chalky, foss, chert: fresh, cr-tan

[No Odor, Rr patch of dull fluor, V low % of pcs with patches of brn spotty stn, Rr pcs with trace show of micro-drops lt brn FO on crush]

← 4270 (-1292)

Sh black & carb to red-gy-grn in pt (washes red)

Ls wh-cr-tan, fn xln, mostly dns, some pr xln por, Rr fr xln por, Rr pcs with pp pores, chalky in pt, foss

[No Odor, Rr dull fluor, Rr pcs with dk brn stn in pp pores, with sli shows of dk brn thick NVL oil & dk brn FO, v sli gassy in pt]

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

Sh gy-grn-red-black, subsilty-silty in pt, carb in pt, soft to mushy in pt

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

[No Odor, Rr patches of fnt fluor, Rr pcs with patch of scant stn, few pcs total with trace show of micro-drops brn FO on crush]

← 4329 (-1351)

Sh gy-grn-pk grn-red, silty in pt

← 4338 (-1360)

4360' spl: 75% Shales as above; 25% Ls wh-cr, fn xln, soft & chalky to dns & firm

4370' spl: 25% Shales as above; 75% Ls wh-cr-pl gy, fn xln, soft & chalky to dns & firm

4380' spl: 60% Sh red-gy-grn, silty to siltstone; 40% Ls wh-cr, vfn-fn xln, dns & firm in pt, chalky & soft in pt

4390' spl: 50% Sh red-gy-grn; 50% Ls wh-cr-brn, vfn-fn xln, mostly dns & hard, some softer & chalky, vitreous text in pt, abund ool pcs (mostly well cem with cr-brn cem't), some ool weath'd to brn

4400' & 4410' spls: 25% Sh red-gy-grn; 75% Ls wh-cr-brn, vfn-fn xln, mostly dns & hard, some softer & chalky, vitreous text in pt, abund ool pcs (mostly well cem with cr-brn cem't, some red shale filled pores), some ool weath'd to brn

4400

65% Ls wh-cr-gy, vfn-fn xln, dns & firm to soft & chalky, foss in pt; 35% Shales

Ls-Dol Ls -Limey Dol, fn xln, sucrosic in pt, pr-fr xln por, foss in pt, ool in pt

Ls cr-gy, fnxln, dns, dol in pt, foss in pt

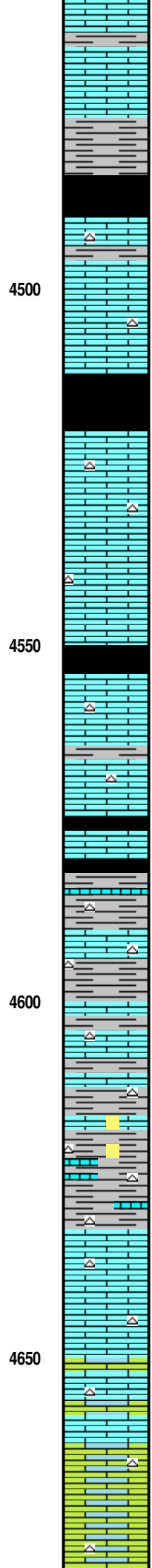
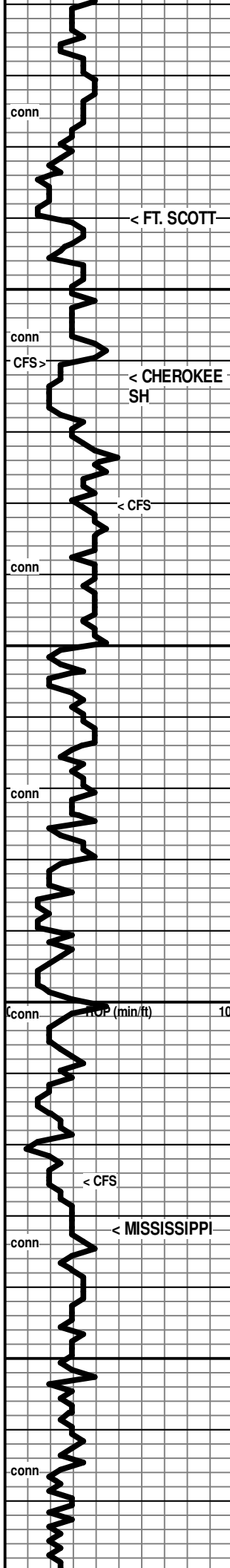
4460' spl: 80% Sh black, gy-grnish, soft in pt, carb in pt, (washes dk gy)

← 4448 (-1470)

4470' spl: 95% Ls wh-cr-pl gy, vfn-fn xln, mostly dns, Rr pr xln por, chalky in pt, foss in pt

DST #6: 4213-4330 (LKC I,J,K,L)  
 Times: 15-30-30-out  
 Initial Open: Wk Blow, built to 1"  
 Final Open: None  
 Rec: 15' mud/oil spots on top  
 IHP: 2107 FHP: 2009  
 IFP: 20-21 FFP: 23-26  
 ISIP: 1047 FSIP: NA  
 BHT: 120°F

7:00 AM, May 17, 2020  
 Mud Check, TOOH for DST6 @ 4330':  
 Vis Wt WL LCM PV YP  
 52 9.4 8.0 1 14 17  
 Chl Hd pH Solids  
 5000 160 10.0 7.7  
 \* Add Premix!



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

4490' spl: 85% Sh gy-dk gy-black, soft, carb in pt (washes dk gy)

← 4490 (-1512)  
Ls wh-cr-tan, vfn-fn xln, mostly dns, some subchalky & softer, foss, chert: fresh, wh-gy, opaq, foss  
Sh gy-dk gy

Ls wh-cr-tan-gy, vfn-fn xln, mostly dns, some subchalky & softer, foss, chert: fresh, wh-gy, opaq, foss

← 4512 (-1534)  
Sh black, carb

Ls wh-cr-tan-gy, vfn-fn xln, dns & firm in pt, chalky & soft in pt, foss, chert: fresh, gy, foss, opaq

Ls wh-cr-tan-gy, vfn-fn xln, dns & firm in pt, chalky & soft in pt, foss, chert: fresh, gy, foss, opaq

Sh black, carb

Ls wh-cr-tan-gy, vfn-fn xln, dns & firm in pt, chalky & soft in pt, foss, chert: fresh, gy, foss, opaq

Sh dk gy-black, carb in pt

Ls wh-cr-tan-gy, vfn-fn xln, dns & firm in pt, chalky & soft in pt, foss, chert: fresh, gy, foss, opaq

4590' spl: 75% Ls cr-tan, vfn-fn xln, mostly dns & firm, some chalky in patches & pcs, foss; 25% Sh dk gy-black, subcarb-carb

4600' spl: 75% Ls as above, with trace of fn gm sdy ls; 20% Sh gy-dk gy-pl, gm to dk gm, red; 05% Chert: fresh, gr-tan, opaq, foss/spic.

4610' spl: as above

4620' spl: 40% Sh gy-dk gy-red-purple-yell-grn, silty in pt; 60% Ls cr-tan, fn xln, dns, foss

60% Sh gy-dk gy-red-purple-yell-grn, silty in pt; 40% Ls cr-tan, fn xln, dns, sdy in pt, foss; Tr Chert: fresh, transl, tan-brn-orange

← 4632 (-1654)

Ls wh-cr-tan, fn xln, mostly dns, some chalky, some sdy, foss in pt, Chert: fresh, tan-or, transl-subop, foss

Ls wh-cr-tan, some dolom ls, fn xln, mostly dns, some chalky, some sdy, foss in pt, Chert: fresh, tan-or, transl-subop, foss

Ls wh-cr-tan, some dolom ls, fn xln, mostly dns, some chalky, some sdy, foss in pt, Chert: fresh, tan-or, transl-subop, foss; spls 40% mixed shales

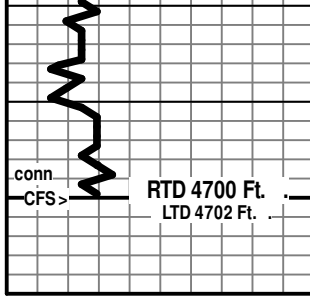
Dol Ls to Limey Dol, wh-cr, vfn-fn xln, subsucrosic text in pt, dns, chert: fresh to subgrainy text wh-gy opaq foss in pt

7:00 AM, May 18, 2020

Mud Check, Drlg @ 4576':

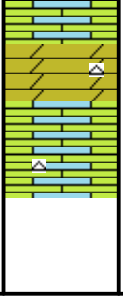
Vis	Wt	WL	LCM	PV	YP
57	9.4	8.0	1	14	19
Chl	Hd	pH	Solids		
4000	80	10.5	7.3		





RTD 4700 Ft.  
LTD 4702 Ft.

4700



Chert: fresh to subgrainy text, wh-gy, opa, foss in pt  
Dol Dol Ls Limey Dol, wh-cr, fn xln, grainy-subsucr-sucr text, Pr  
xln por to dns, Abund Chert: fresh to grainy text, opa, foss, wh-cr-gy

RTD Reached at 2:15 PM,  
May 18, 2020!







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Carmen Schmitt, Inc  
 PO Box 47  
 Great Bend, Ks 67570  
 ATTN: Brad Rine

**23 8s 31w Thomas, Ks**  
**Baalman 1-23**  
 Job Ticket: 66193      **DST#: 1**  
 Test Start: 2020.05.13 @ 23:46:00

## Mud and Cushion Information

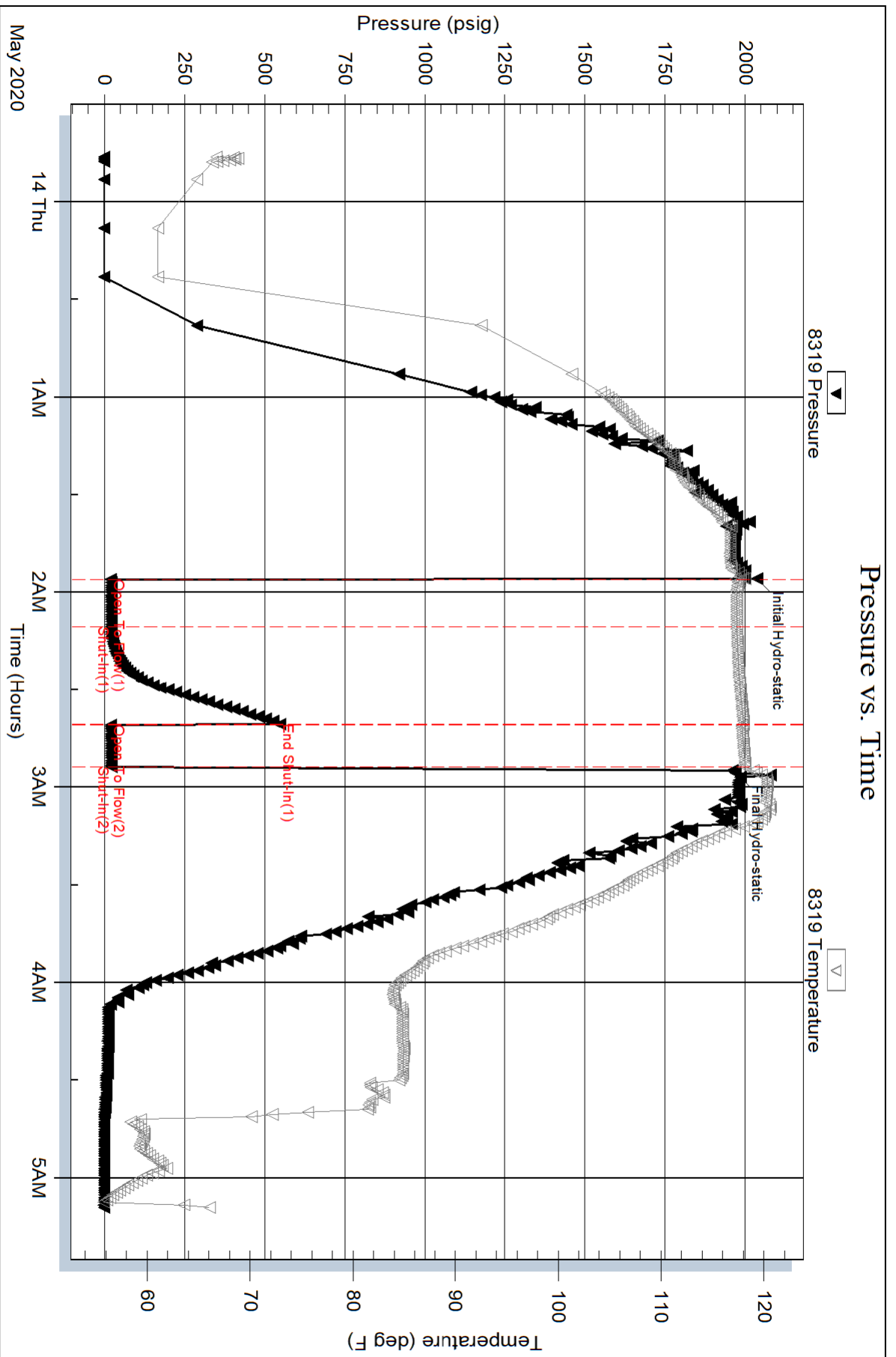
Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 59.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.20 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2400.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
6.00	Mud 100m (oil spots)	0.084

Total Length: 6.00 ft      Total Volume: 0.084 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:







**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Carmen Schmitt, Inc  
 PO Box 47  
 Great Bend, Ks 67570  
 ATTN: Brad Rine

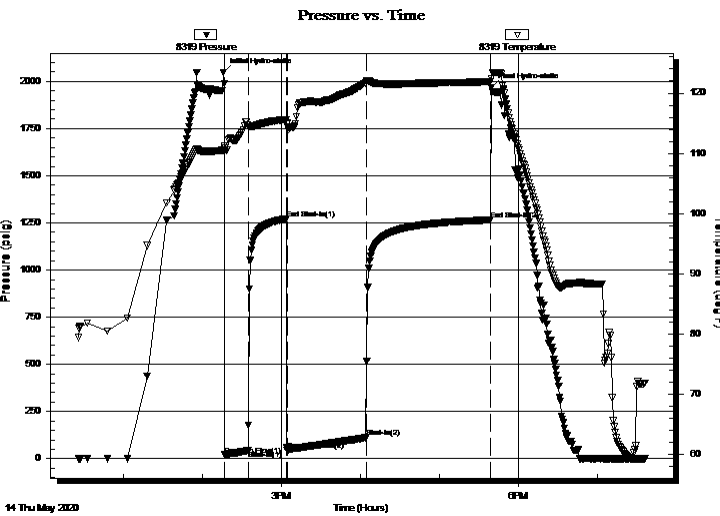
**23 8s 31w Thomas, Ks**  
**Baalman 1-23**  
 Job Ticket: 66194 **DST#: 2**  
 Test Start: 2020.05.14 @ 12:26:00

## GENERAL INFORMATION:

Formation: **Toronto- LKC- A**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 14:17:00  
 Time Test Ended: 19:35:30  
 Interval: **4033.00 ft (KB) To 4085.00 ft (KB) (TVD)**  
 Total Depth: 4085.00 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: 2978.00 ft (KB)  
 2968.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 8319 Outside**  
 Press@RunDepth: 111.61 psig @ 4034.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2020.05.14 End Date: 2020.05.14 Last Calib.: 2020.05.14  
 Start Time: 12:26:05 End Time: 19:35:29 Time On Btm: 2020.05.14 @ 14:16:00  
 Time Off Btm: 2020.05.14 @ 17:39:15

TEST COMMENT: 15- IF: 4 1/2 min.  
 30- ISI No return.  
 60- FF: BOB @ 45 min. built to 12 1/2".  
 90- FSI: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2047.18	110.54	Initial Hydro-static
1	21.13	110.83	Open To Flow (1)
19	43.48	114.45	Shut-In(1)
48	1271.49	115.61	End Shut-In(1)
49	45.00	114.99	Open To Flow (2)
109	111.61	121.78	Shut-In(2)
203	1265.93	121.92	End Shut-In(2)
204	1965.43	122.41	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
195.00	mcw 30m 70w (oil spots)	2.74

\* Recovery from multiple tests

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Carmen Schmitt, Inc  
PO Box 47  
Great Bend, Ks 67570  
ATTN: Brad Rine

**23 8s 31w Thomas, Ks**  
**Baalman 1-23**  
Job Ticket: 66194      **DST#: 2**  
Test Start: 2020.05.14 @ 12:26:00

## Mud and Cushion Information

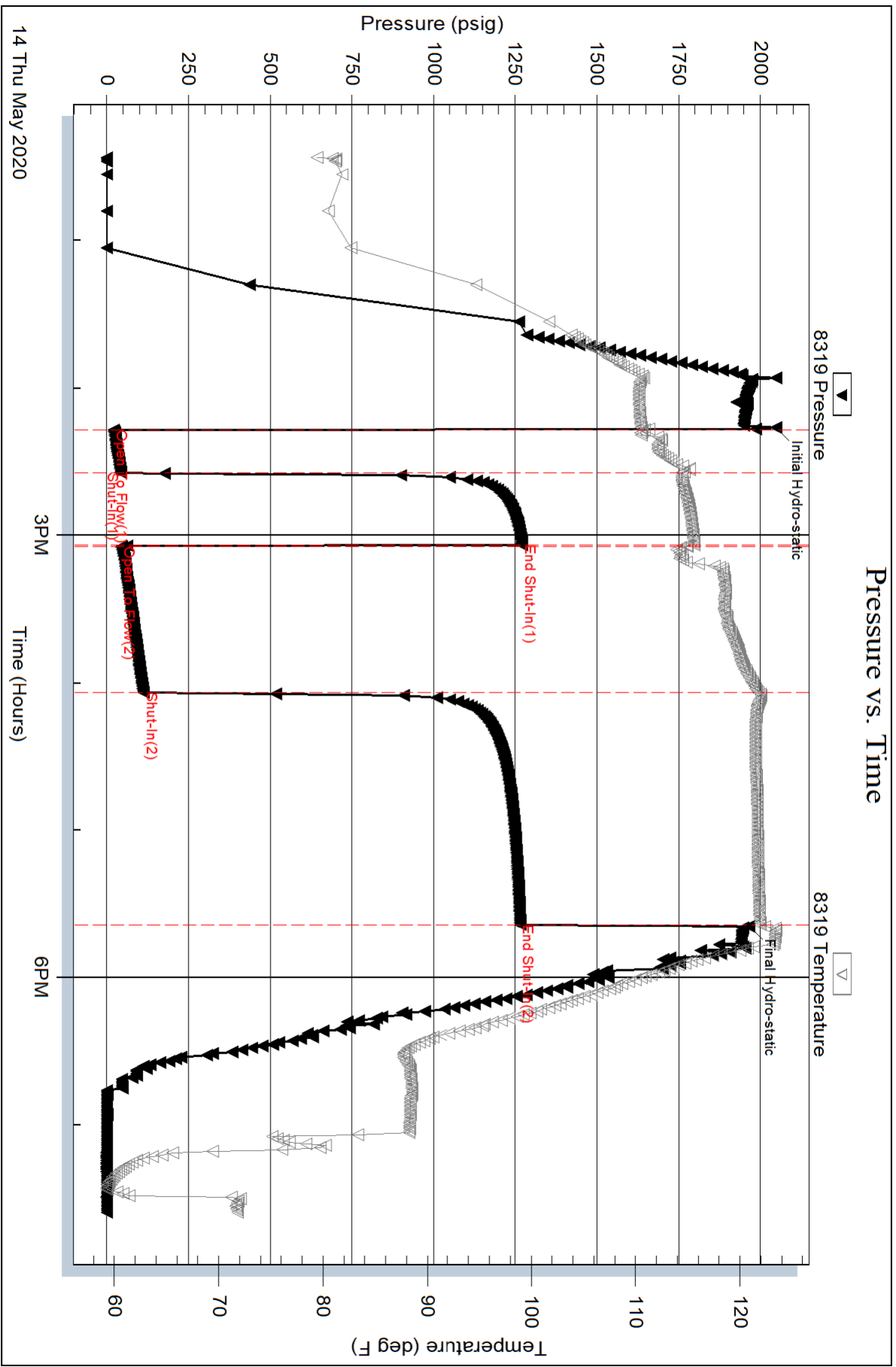
Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
195.00	mcw 30m 70w (oil spots)	2.735

Total Length: 195.00 ft      Total Volume: 2.735 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: rw is .310 @ 71F = 20000ppm



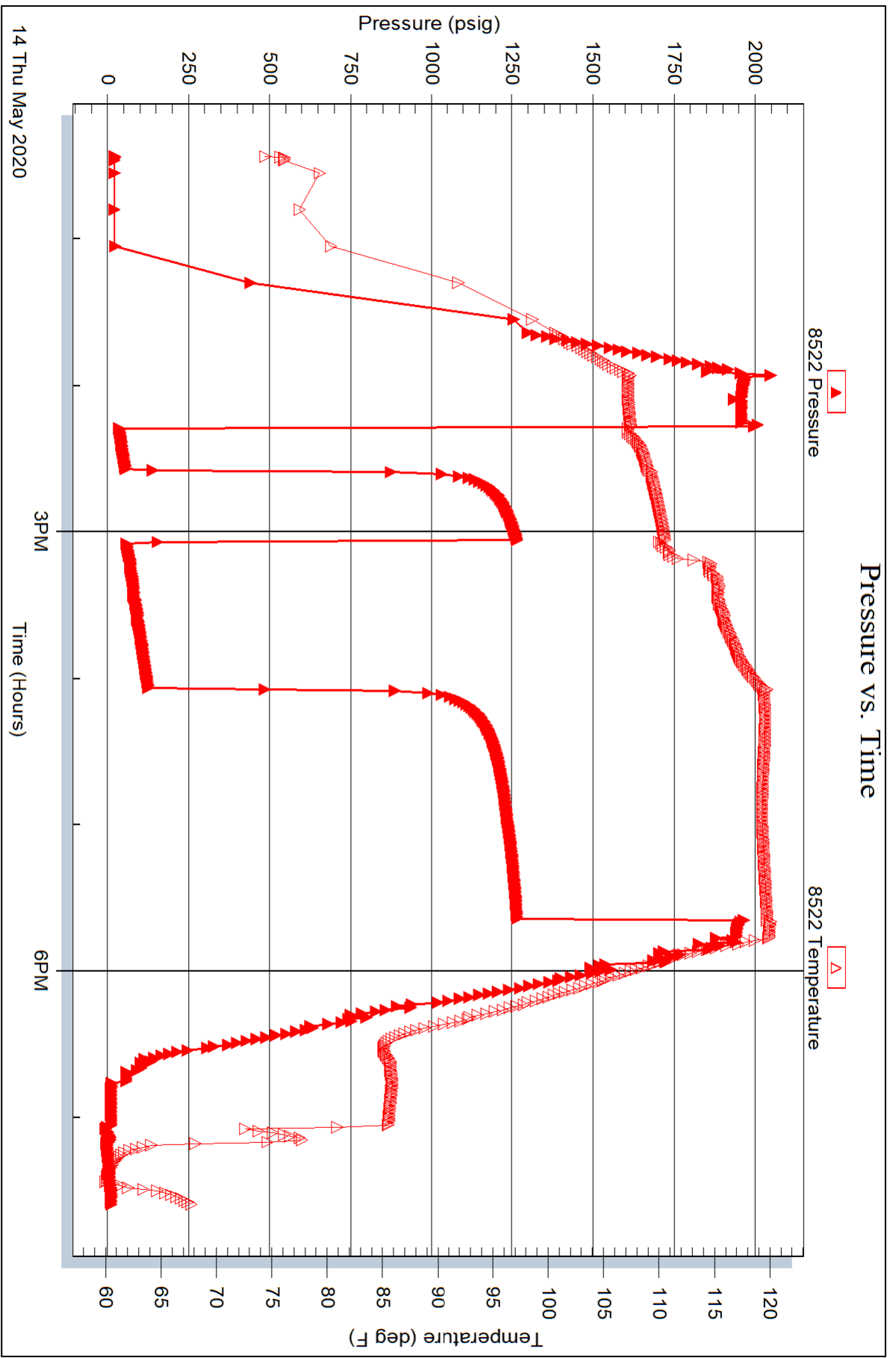
Serial #: 8522

Inside

Carmen Schmitt, Inc

Bairman 1-23

DST Test Number: 2





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Carmen Schmitt, Inc  
 PO Box 47  
 Great Bend, Ks 67570  
 ATTN: Brad Rine

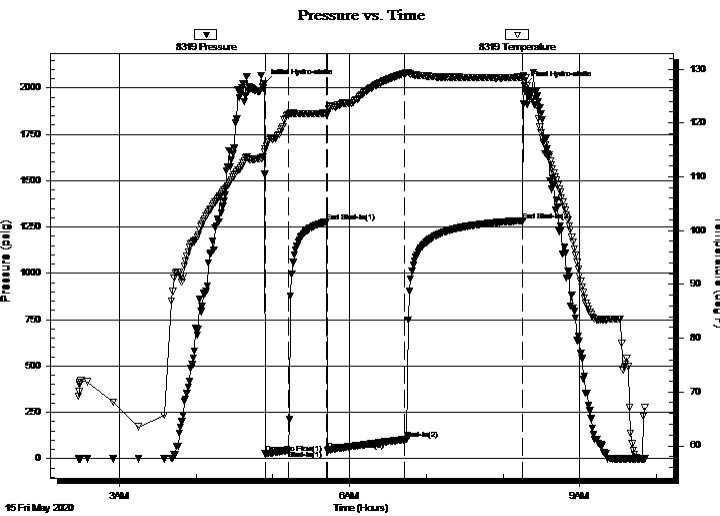
**23 8s 31w Thomas, Ks**  
**Baalman 1-23**  
 Job Ticket: 66195 **DST#: 3**  
 Test Start: 2020.05.15 @ 02:28:00

## GENERAL INFORMATION:

Formation: **LKC- C**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 04:54:00  
 Time Test Ended: 09:51:00  
 Interval: **4079.00 ft (KB) To 4112.00 ft (KB) (TVD)**  
 Total Depth: 4112.00 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: 2978.00 ft (KB)  
 2968.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 8319 Outside**  
 Press@RunDepth: 103.87 psig @ 4080.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2020.05.15 End Date: 2020.05.15 Last Calib.: 2020.05.15  
 Start Time: 02:28:05 End Time: 09:50:59 Time On Btm: 2020.05.15 @ 04:53:30  
 Time Off Btm: 2020.05.15 @ 08:16:45

**TEST COMMENT:** 15- IF: 5 1/2" blow .  
 30- IS: No return.  
 60- FF: BOB-10" @ 60 min.  
 90- FSI: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2022.18	114.62	Initial Hydro-static
1	26.89	115.15	Open To Flow (1)
19	45.00	121.58	Shut-In(1)
49	1278.44	121.85	End Shut-In(1)
49	46.81	121.65	Open To Flow (2)
110	103.87	129.21	Shut-In(2)
202	1284.26	128.53	End Shut-In(2)
204	2012.04	127.80	Final Hydro-static

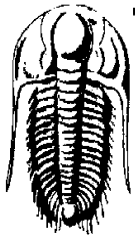
## Recovery

Length (ft)	Description	Volume (bbl)
185.00	mcw 15m 85w (oil spots)	2.60

\* 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 67570  
 ATTN: Brad Rine

**23 8s 31w Thomas, Ks**  
**Baalman 1-23**  
 Job Ticket: 66195      **DST#: 3**  
 Test Start: 2020.05.15 @ 02:28:00

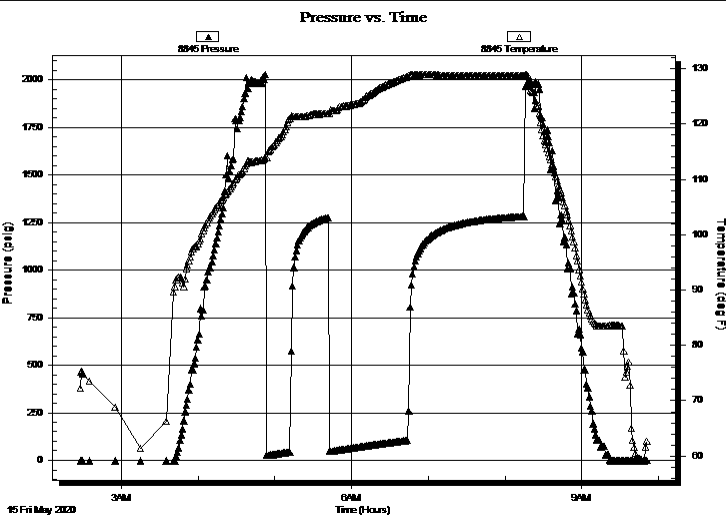
**GENERAL INFORMATION:**

Formation:	<b>LKC- C</b>		
Deviated:	No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened:	04:54:00		Tester: Bradley Walter
Time Test Ended:	09:51:00		Unit No: 78
<b>Interval:</b>	<b>4079.00 ft (KB) To 4112.00 ft (KB) (TVD)</b>		Reference Elevations: 2978.00 ft (KB)
Total Depth:	4112.00 ft (KB) (TVD)		2968.00 ft (CF)
Hole Diameter:	7.88 inches	Hole Condition: Good	KB to GR/CF: 10.00 ft

**Serial #: 8845**      **Inside**

Press@RunDepth:	psig @ 4080.00 ft (KB)	Capacity:	8000.00 psig
Start Date:	2020.05.15	End Date:	2020.05.15
Start Time:	02:28:05	End Time:	09:50:44
		Time On Btm:	
		Time Off Btm:	

**TEST COMMENT:** 15- IF: 5 1/2" blow .  
 30- IS: No return.  
 60- FF: BOB-10" @ 60 min.  
 90- FSI: No return.



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

Recovery		
Length (ft)	Description	Volume (bbl)
185.00	mcw 15m 85w (oil spots)	2.60

\* Recovery from multiple tests

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Carmen Schmitt, Inc  
PO Box 47  
Great Bend, Ks 67570  
ATTN: Brad Rine

**23 8s 31w Thomas, Ks**  
**Baalman 1-23**  
Job Ticket: 66195      **DST#: 3**  
Test Start: 2020.05.15 @ 02:28:00

## 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:	ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
185.00	mcw 15m 85w (oil spots)	2.595

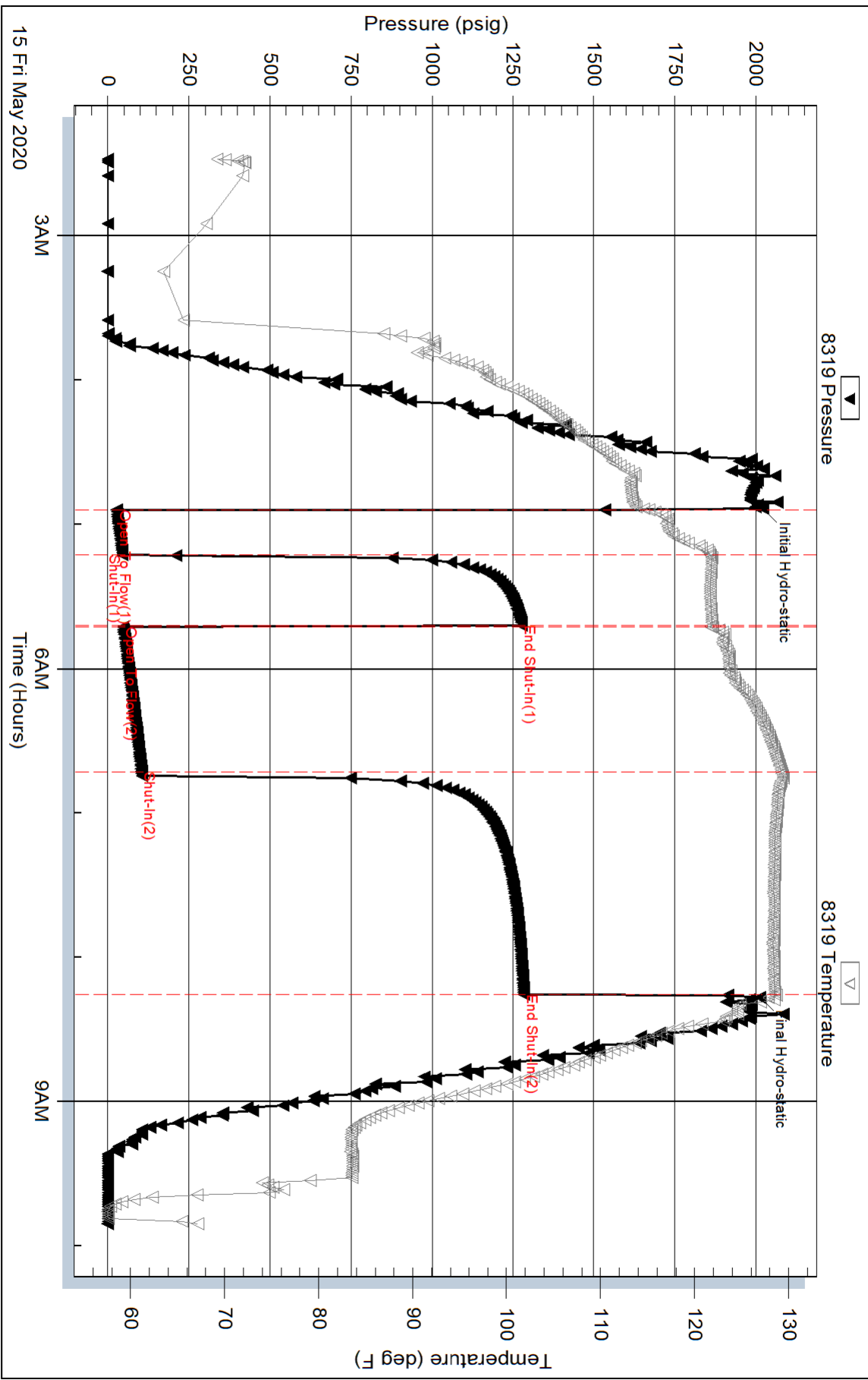
Total Length: 185.00 ft      Total Volume: 2.595 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: rw is .330 @57f= 24000ppm

# Pressure vs. Time



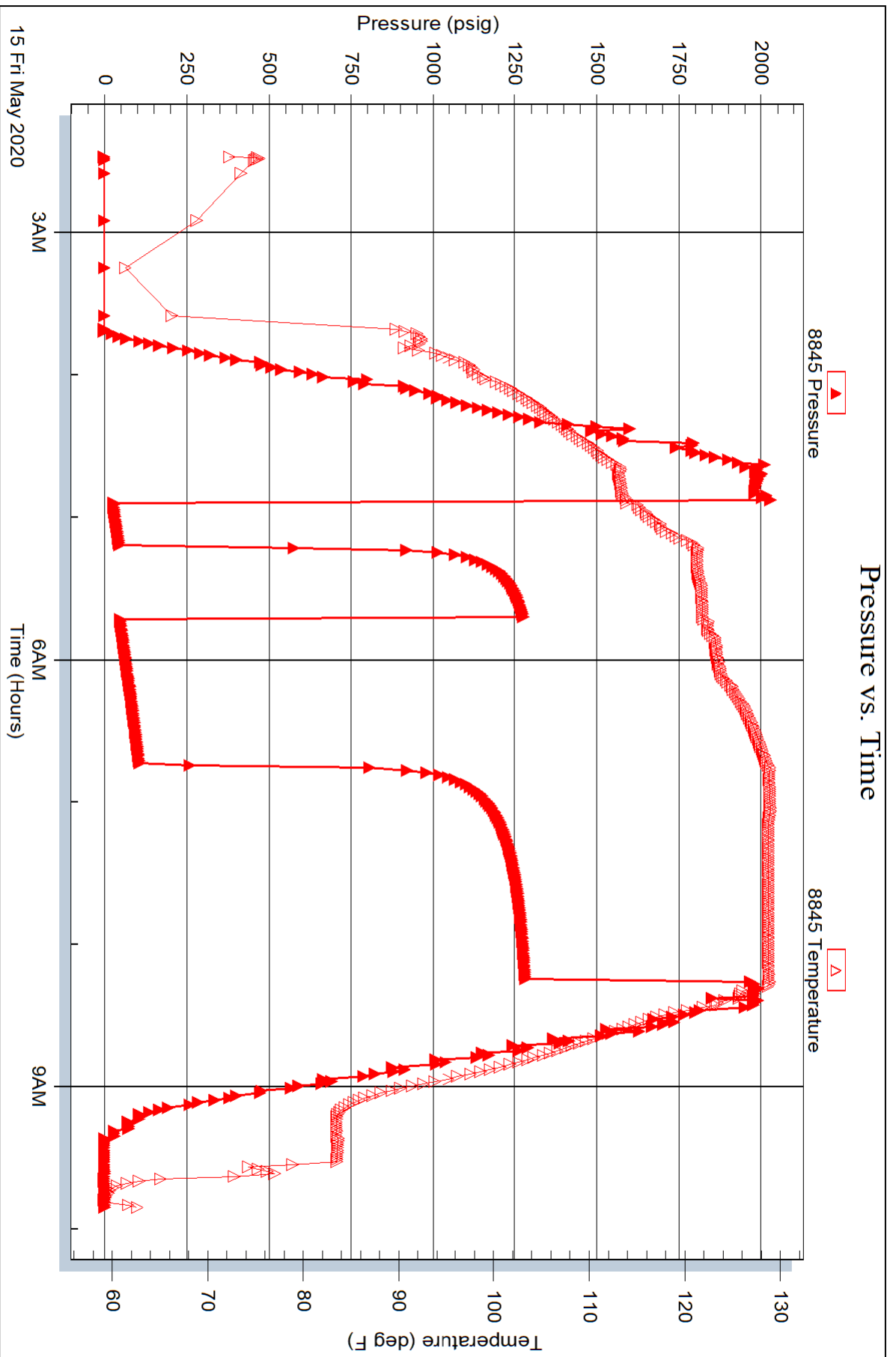
Serial #: 8845

Inside

Carmen Schmitt, Inc

Bairman 1-23

DST Test Number: 3







**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Carmen Schmitt, Inc  
 PO Box 47  
 Great Bend, Ks 67570  
 ATTN: Brad Rine

**23 8s 31w Thomas, Ks**  
**Baalman 1-23**  
 Job Ticket: 66196 **DST#: 4**  
 Test Start: 2020.05.15 @ 20:40:00

## GENERAL INFORMATION:

Formation: **LKC- D-E-F**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 22:29:00  
 Time Test Ended: 01:11:15  
 Interval: **4109.00 ft (KB) To 4155.00 ft (KB) (TVD)**  
 Total Depth: 4155.00 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: 2978.00 ft (KB)  
 2968.00 ft (CF)  
 KB to GR/CF: 10.00 ft

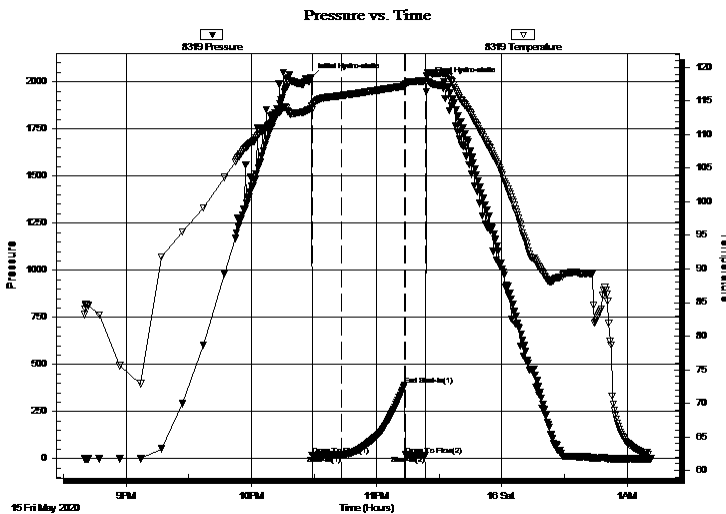
## Serial #: 8319

Outside

Press@RunDepth: 20.20 psig @ 4110.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2020.05.15 End Date: 2020.05.16 Last Calib.: 2020.05.16  
 Start Time: 20:40:05 End Time: 01:11:14 Time On Btm: 2020.05.15 @ 22:28:45  
 Time Off Btm: 2020.05.15 @ 23:24:45

TEST COMMENT: 15- IF: 3/4" blow .  
 30- IS: No return.  
 10- FF: No blow .  
 Pulled Test.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2022.30	114.31	Initial Hydro-static
1	20.15	113.75	Open To Flow (1)
15	20.20	115.82	Shut-In(1)
45	389.65	117.24	End Shut-In(1)
46	20.77	117.52	Open To Flow (2)
55	20.17	118.02	Shut-In(2)
56	2001.35	119.26	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
8.00	Mud 100m (oil spots)	0.11

## 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 67570  
ATTN: Brad Rine

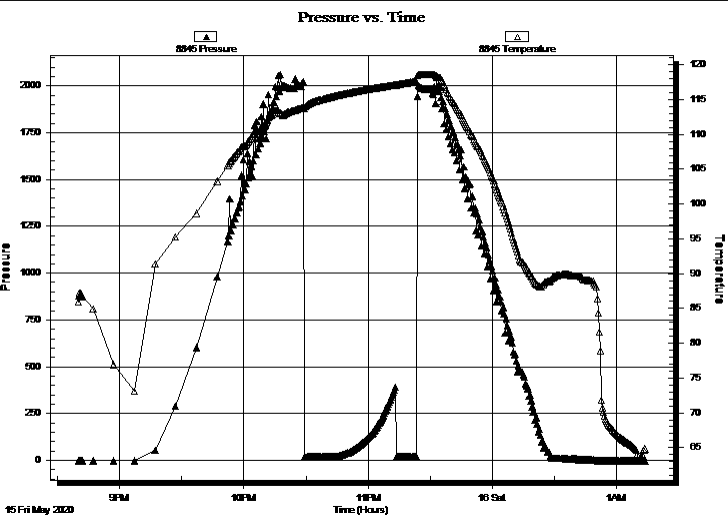
**23 8s 31w Thomas, Ks**  
**Baalman 1-23**  
Job Ticket: 66196      **DST#: 4**  
Test Start: 2020.05.15 @ 20:40:00

**GENERAL INFORMATION:**

Formation: **LKC- D-E-F**  
Deviated: No Whipstock:                          ft (KB)      Test Type: Conventional Bottom Hole (Reset)  
Time Tool Opened: 22:29:00      Tester: Bradley Walter  
Time Test Ended: 01:11:15      Unit No: 78  
**Interval: 4109.00 ft (KB) To 4155.00 ft (KB) (TVD)**      Reference Elevations: 2978.00 ft (KB)  
Total Depth: 4155.00 ft (KB) (TVD)      2968.00 ft (CF)  
Hole Diameter: 7.88 inches      Hole Condition: Good      KB to GR/CF: 10.00 ft

**Serial #: 8845      Inside**  
Press@RunDepth:                          psig @ 4110.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2020.05.15      End Date: 2020.05.16      Last Calib.: 2020.05.16  
Start Time: 20:40:05      End Time: 01:13:44      Time On Btm:  
Time Off Btm:

**TEST COMMENT:** 15- IF: 3/4" blow .  
30- IS: No return.  
10- FF: No blow .  
Pulled Test.



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

Recovery		
Length (ft)	Description	Volume (bbl)
8.00	Mud 100m (oil spots)	0.11

\* Recovery from multiple tests

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Carmen Schmitt, Inc  
 PO Box 47  
 Great Bend, Ks 67570  
 ATTN: Brad Rine

**23 8s 31w Thomas, Ks**  
**Baalman 1-23**  
 Job Ticket: 66196      **DST#: 4**  
 Test Start: 2020.05.15 @ 20:40:00

## 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: 7.20 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: 1.00 inches			

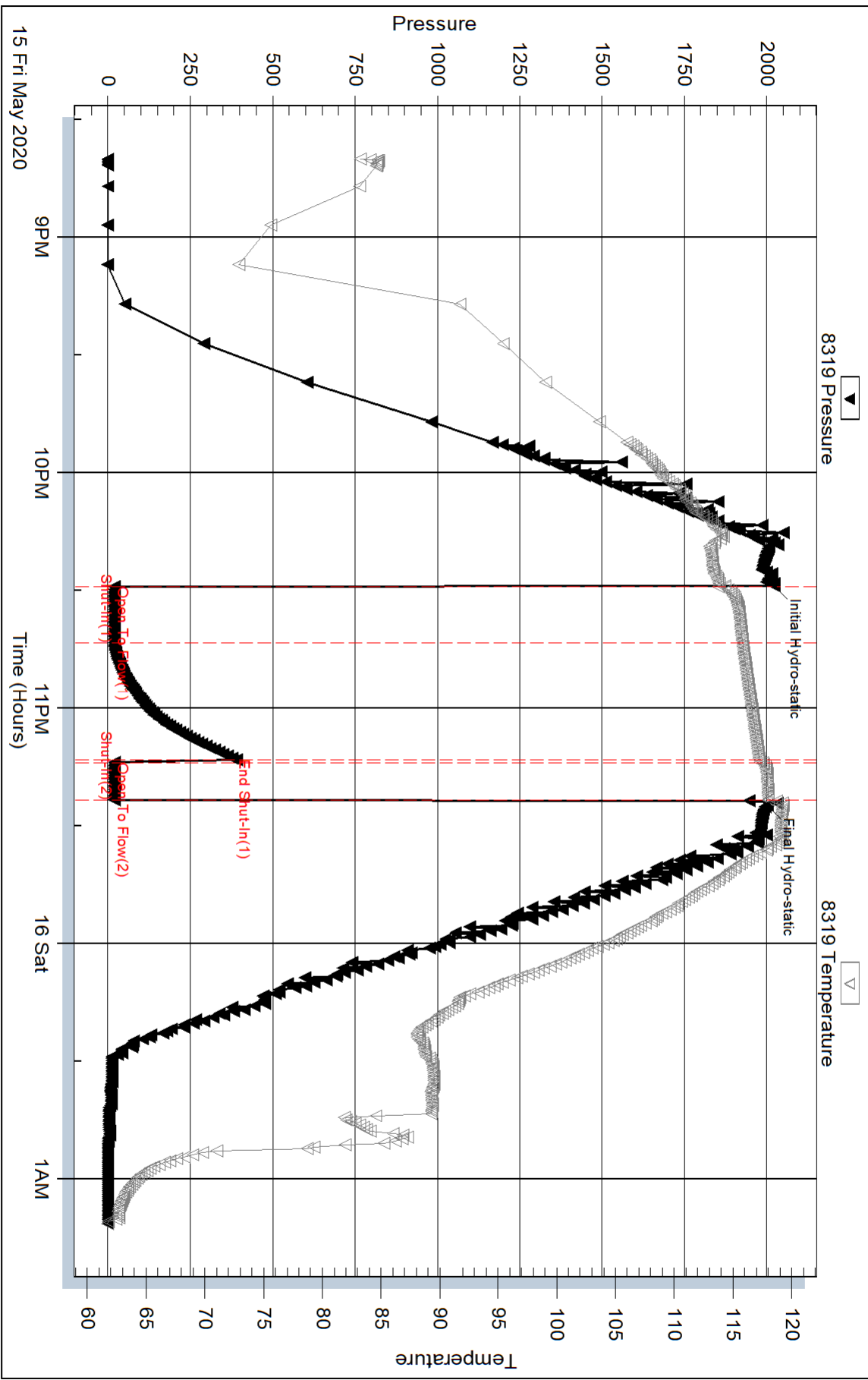
## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
8.00	Mud 100m (oil spots)	0.112

Total Length: 8.00 ft      Total Volume: 0.112 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

# Pressure vs. Time



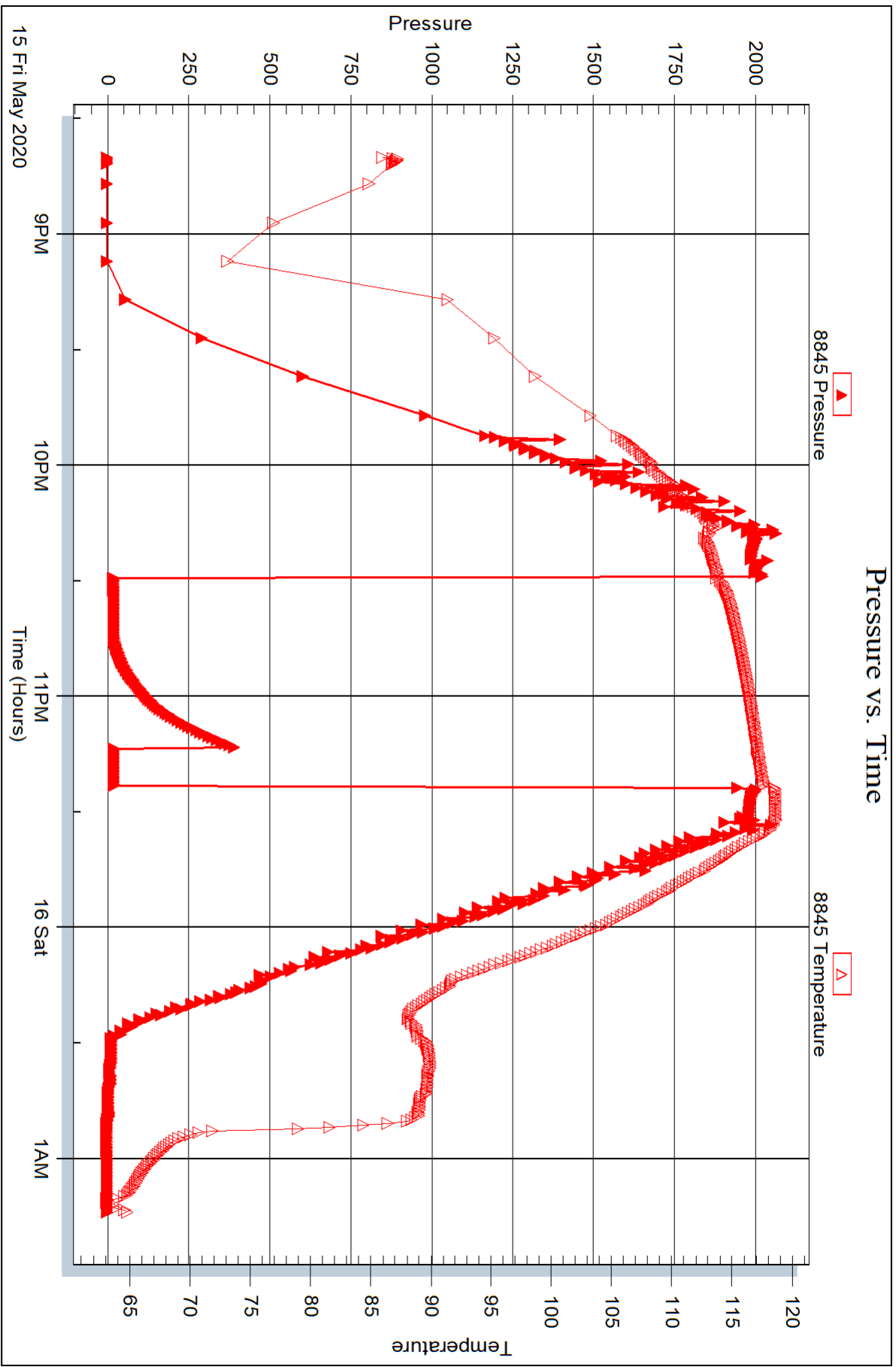
Serial #: 8845

Inside

Carmen Schmitt, Inc

Bairman 1-23

DST Test Number: 4





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Carmen Schmitt, Inc  
 PO Box 47  
 Great Bend, Ks 67570  
 ATTN: Brad Rine

**23 8s 31w Thomas, Ks**  
**Baalman 1-23**  
 Job Ticket: 66197 **DST#: 5**  
 Test Start: 2020.05.16 @ 11:46:00

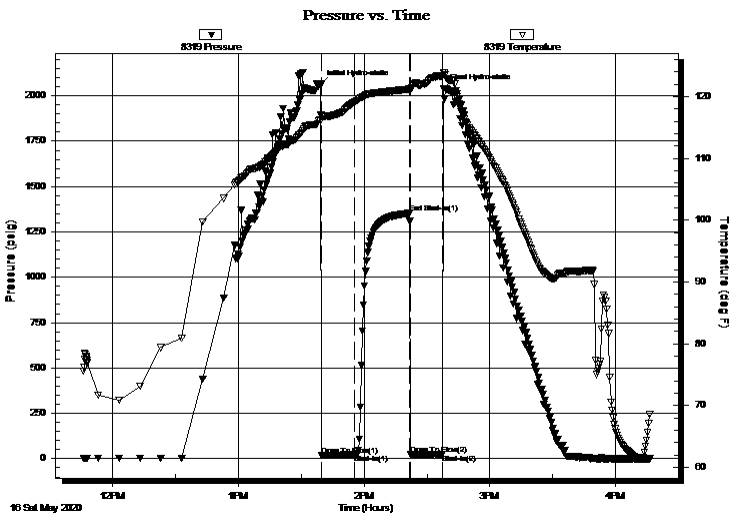
## GENERAL INFORMATION:

Formation: **LKC- H**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 13:39:30  
 Time Test Ended: 16:16:30  
**Interval: 4183.00 ft (KB) To 4215.00 ft (KB) (TVD)**  
 Total Depth: 4066.00 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: 2978.00 ft (KB)  
 2968.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 8319 Outside**  
 Press@RunDepth: 21.37 psig @ 4184.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2020.05.16 End Date: 2020.05.16 Last Calib.: 2020.05.16  
 Start Time: 11:46:05 End Time: 16:16:29 Time On Btm: 2020.05.16 @ 13:39:15  
 Time Off Btm: 2020.05.16 @ 14:37:45

**TEST COMMENT:** 15- IF: 3/4" blow .  
 30- IS: No return.  
 15- FF Surface blow .  
 Pulled test.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2059.15	117.11	Initial Hydro-static
1	17.59	116.21	Open To Flow (1)
17	21.37	119.14	Shut-In(1)
43	1352.56	121.21	End Shut-In(1)
43	22.32	120.99	Open To Flow (2)
59	23.89	123.36	Shut-In(2)
59	2040.73	123.92	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud 100m (oil spots)	0.21

\* 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 67570  
ATTN: Brad Rine

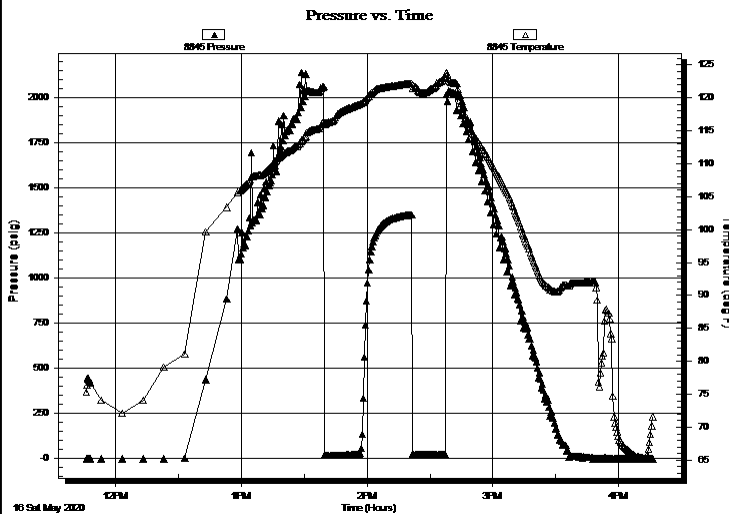
**23 8s 31w Thomas, Ks**  
**Baalman 1-23**  
Job Ticket: 66197      **DST#: 5**  
Test Start: 2020.05.16 @ 11:46:00

## GENERAL INFORMATION:

Formation:      **LKC- H**  
Deviated:      No      Whipstock:           ft (KB)      Test Type:      Conventional Bottom Hole (Reset)  
Time Tool Opened: 13:39:30      Tester:      Bradley Walter  
Time Test Ended: 16:16:30      Unit No:      78  
**Interval:      4183.00 ft (KB) To      4215.00 ft (KB) (TVD)**      Reference Elevations:      2978.00 ft (KB)  
Total Depth:      4066.00 ft (KB) (TVD)      2968.00 ft (CF)  
Hole Diameter:      7.88 inches      Hole Condition:      Good      KB to GR/CF:      10.00 ft

**Serial #: 8845      Inside**  
Press@RunDepth:           psig @      4184.00 ft (KB)      Capacity:      8000.00 psig  
Start Date:      2020.05.16      End Date:      2020.05.16      Last Calib.:      2020.05.16  
Start Time:      11:46:05      End Time:      16:16:29      Time On Btm:           Time Off Btm:          

**TEST COMMENT:** 15- IF: 3/4" blow .  
30- IS: No return.  
15- FF Surface blow .  
Pulled test.



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud 100m (oil spots)	0.21

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Carmen Schmitt, Inc  
 PO Box 47  
 Great Bend, Ks 67570  
 ATTN: Brad Rine

**23 8s 31w Thomas, Ks**  
**Baalman 1-23**  
 Job Ticket: 66197      **DST#: 5**  
 Test Start: 2020.05.16 @ 11:46:00

## 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: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.20 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: 1.00 inches			

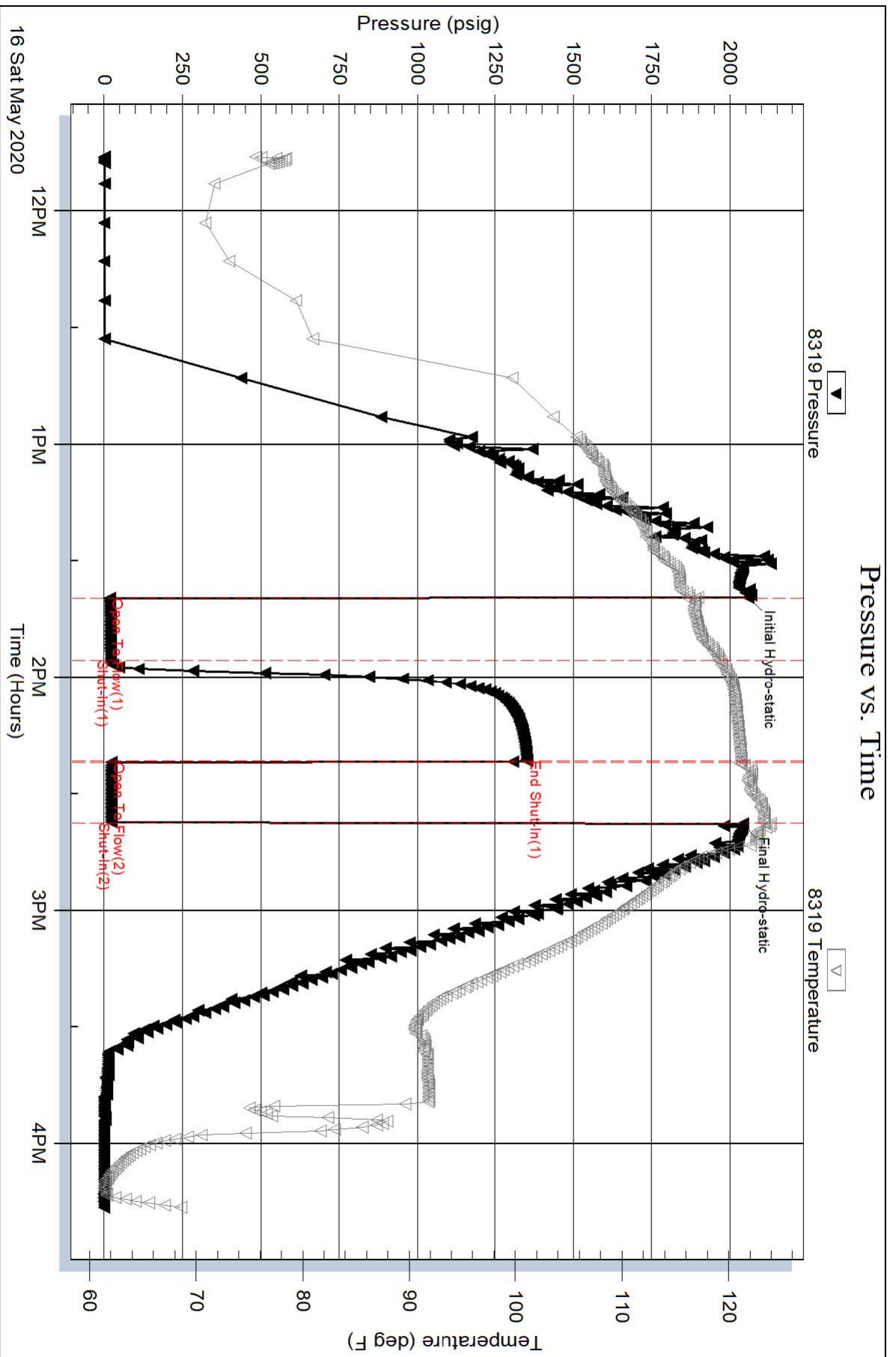
## Recovery Information

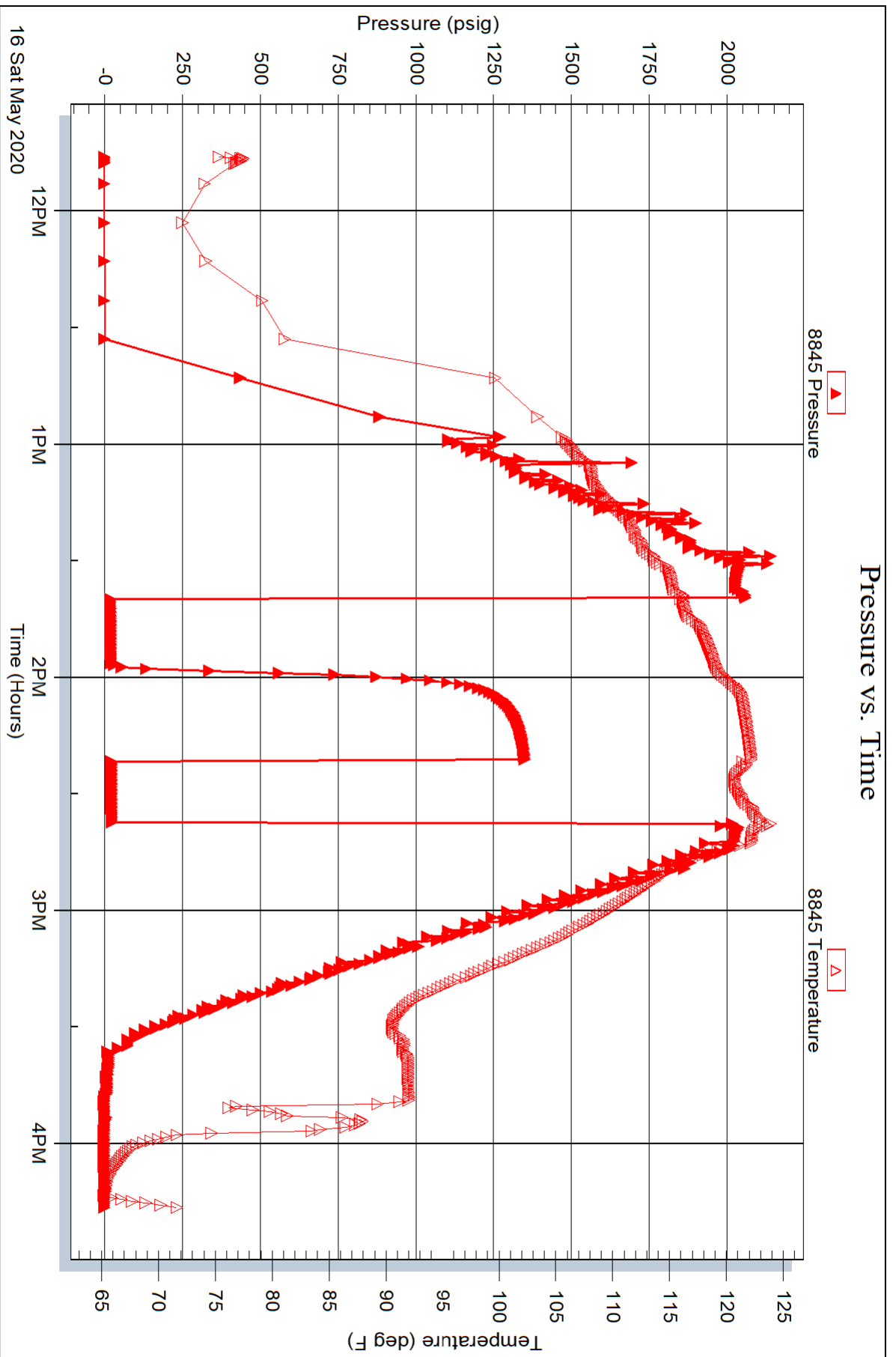
Recovery Table

Length ft	Description	Volume bbl
15.00	Mud 100m (oil spots)	0.210

Total Length: 15.00 ft      Total Volume: 0.210 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:









**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Carmen Schmitt, Inc  
 PO Box 47  
 Great Bend, Ks 67570  
 ATTN: Brad Rine

**23 8s 31w Thomas, Ks**  
**Baalman 1-23**  
 Job Ticket: 66198 **DST#: 6**  
 Test Start: 2020.05.17 @ 09:22:05

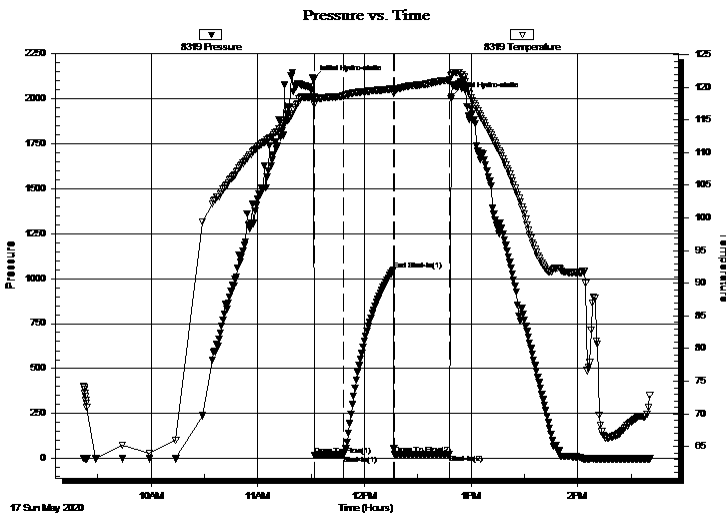
## GENERAL INFORMATION:

Formation: **LKC- I,J,K&L**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 11:31:45 Tester: Bradley Walter  
 Time Test Ended: 14:40:29 Unit No: 78  
 Interval: **4213.00 ft (KB) To 4330.00 ft (KB) (TVD)** Reference Elevations: 2978.00 ft (KB)  
 Total Depth: 4330.00 ft (KB) (TVD) 2968.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 10.00 ft

**Serial #: 8319 Outside**  
 Press@RunDepth: 21.12 psig @ 4214.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2020.05.17 End Date: 2020.05.17 Last Calib.: 2020.05.17  
 Start Time: 09:22:05 End Time: 14:40:29 Time On Btm: 2020.05.17 @ 11:31:30  
 Time Off Btm: 2020.05.17 @ 12:49:00

TEST COMMENT: 15- IF: 1" blow .  
 30- IS: No return.  
 30- FF: No blow .  
 Pulled test.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2107.04	118.62	Initial Hydro-static
1	19.90	117.34	Open To Flow (1)
17	21.12	118.66	Shut-In(1)
45	1046.91	119.76	End Shut-In(1)
46	22.82	119.52	Open To Flow (2)
77	26.15	121.09	Shut-In(2)
78	2008.15	121.90	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud 100m (oil spots on top)	0.21

\* 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 67570  
 ATTN: Brad Rine

**23 8s 31w Thomas, Ks**  
**Baalman 1-23**  
 Job Ticket: 66198 **DST#: 6**  
 Test Start: 2020.05.17 @ 09:22:05

## GENERAL INFORMATION:

Formation: **LKC- I,J,K&L**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 11:31:45 Tester: Bradley Walter  
 Time Test Ended: 14:40:29 Unit No: 78  
 Interval: **4213.00 ft (KB) To 4330.00 ft (KB) (TVD)** Reference Elevations: 2978.00 ft (KB)  
 Total Depth: 4330.00 ft (KB) (TVD) 2968.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 10.00 ft

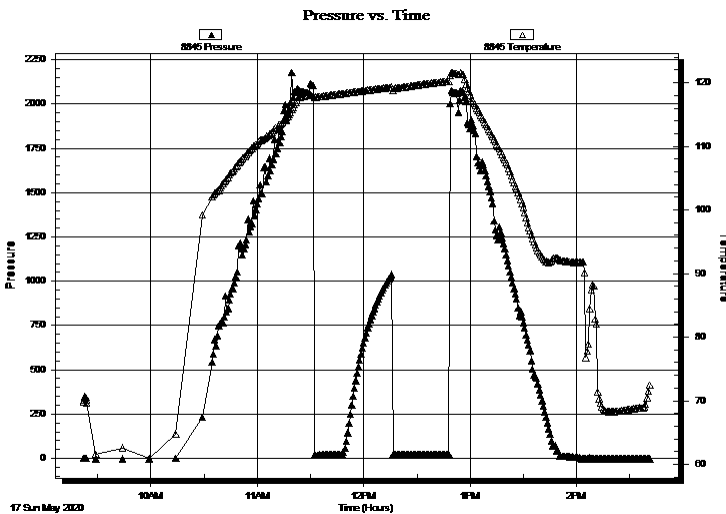
## Serial #: 8845

Inside

Press@RunDepth: psig @ 4214.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2020.05.17 End Date: 2020.05.17 Last Calib.: 2020.05.17  
 Start Time: 09:22:05 End Time: 14:41:29 Time On Btm:  
 Time Off Btm:

TEST COMMENT: 15- IF: 1" blow .  
 30- IS: No return.  
 30- FF: No blow .  
 Pulled test.

## PRESSURE SUMMARY



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

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud 100m (oil spots on top)	0.21

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Carmen Schmitt, Inc  
PO Box 47  
Great Bend, Ks 67570  
ATTN: Brad Rine

**23 8s 31w Thomas, Ks**  
**Baalman 1-23**  
Job Ticket: 66198      **DST#: 6**  
Test Start: 2020.05.17 @ 09:22:05

## 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: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.39 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

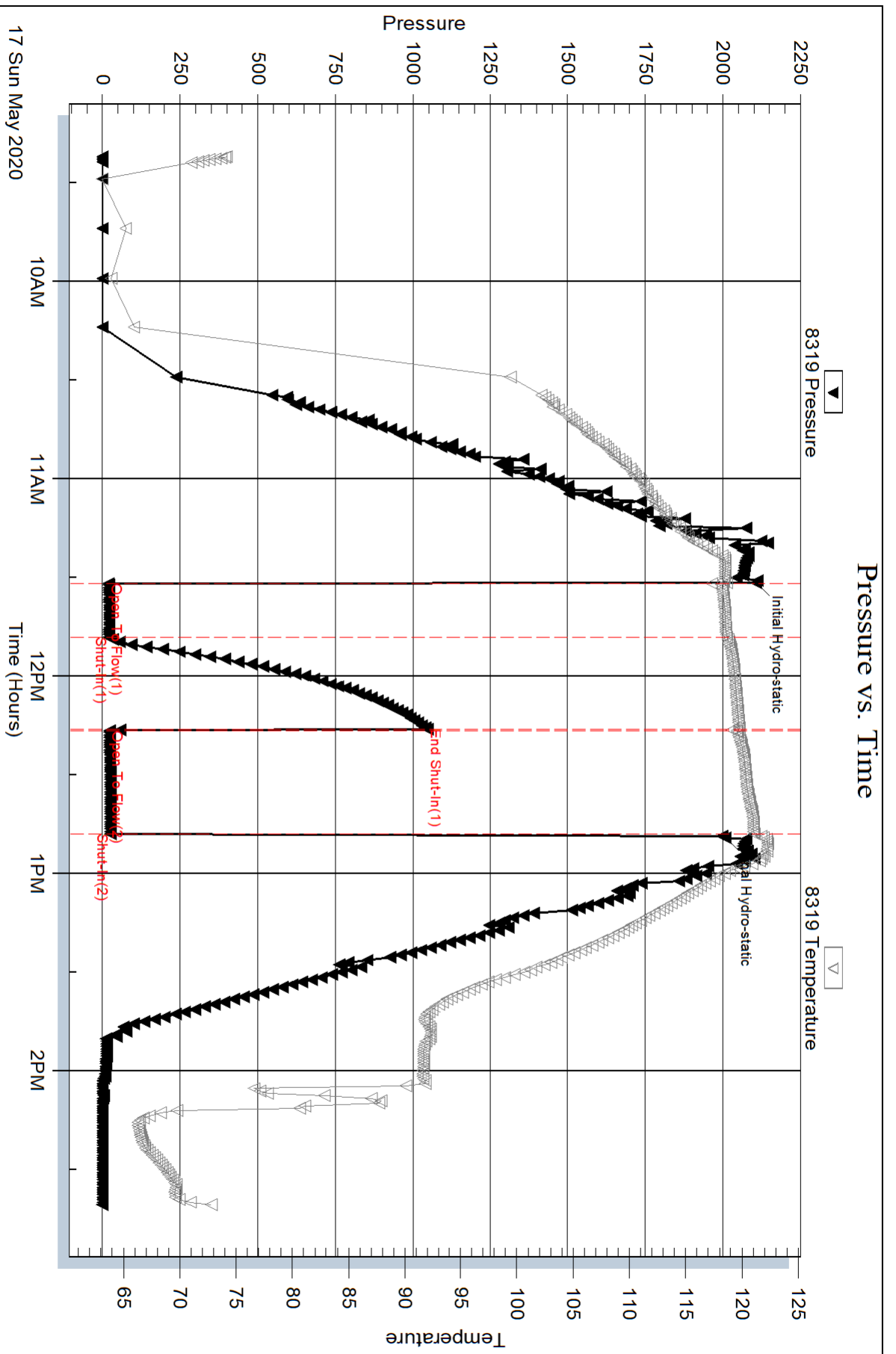
Length ft	Description	Volume bbl
15.00	Mud 100m (oil spots on top)	0.210

Total Length: 15.00 ft      Total Volume: 0.210 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:



Serial #: 8845

Inside

Carmen Schmitt, Inc

Bairman 1-23

DST Test Number: 6

