KOLAR Document ID: 1537738

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 # 6569
Name: Carmen Schmitt, Inc.
Address 1: PO BOX 47
Address 2:
City: GREAT BEND State: KS Zip: 67530 + 0047
Contact Person: Matt Suchy
Phone: (620) 793-5100
CONTRACTOR: License # 33350
Name: Southwind Drilling, Inc.
Wellsite Geologist: Brad Rine
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 #:

1/9/2021 Spud Date or Recompletion Date
1/22/2021 Date Reached TD
1/23/2021 Completion Date or Recompletion Date

API No.: 15-057-21048-00-00
Spot Description:
SE - NW - NW - NW Sec. 26 Twp. 28 S. R. 26 ☐ East ☑ West
610 Feet from ☑ North / ☐ South Line of Section
610 Feet from ☐ East / ☑ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☑ NW ☐ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Ford
Lease Name: DAVID Well #: 1
Field Name:
Producing Formation: NA
Elevation: Ground: 2680 Kelly Bushing: 2690
Total Vertical Depth: 5378 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 1125 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: 32000 ppm Fluid volume: 1200 bbls
Dewatering method used: Evaporated
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: 01/28/2021
☐ **Confidential Release Date:** 01/28/2023
☑ **Wireline Log Received** ☑ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** Karen Ritter **Date:** 01/28/2021

Operator Name: Carmen Schmitt, Inc. Lease Name: DAVID Well #: 1

Sec. 26 Twp. 28 S. R. 26 ☐ East ☑ West County: Ford

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 *(Attach Additional Sheets)*	☑ Yes	☐ No	
Samples Sent to Geological Survey	☑ Yes	☐ No	
Cores Taken	☐ Yes	☑ No	
Electric Log Run	☑ Yes	☐ No	
Geologist Report / Mud Logs	☑ Yes	☐ No	

List All E. Logs Run: Attached

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Attached	Attached	Attached

CASING RECORD ☑ New ☐ 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
Surface	12.25	8.625	24	1125	65/35 Poz	525	3%cc,2%gel

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate ☐ Protect Casing ☐ Plug Back TD ☐ 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: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	Top / Bottom

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

TUBING RECORD: Size: Set At: Packer At:

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Carmen Schmitt, Inc.
Well Name	DAVID 1
Doc ID	1537738

All Electric Logs Run

Sonic
Dual Induction
Comp Porosity
Mirco

Form	ACO1 - Well Completion
Operator	Carmen Schmitt, Inc.
Well Name	DAVID 1
Doc ID	1537738

Tops

Name	Top	Datum
Stone Corral	1686	1004
Heebner Sh.	4361	-1671
Toronto	4380	-1690
Douglas Ls	4434	-1744
Lansing	4480	-1790
Muncie	4675	-1985
Stark Shale	4789	-2099
Base/KC	4930	-2240
Marmaton	4956	-2266
Pawnee	5033	-2343
Fort Scott	5086	-2396
Cherokee Sh	5116	-2426
Morrow Sh	5205	-2515
Miss	5238	-2548

Form	ACO1 - Well Completion
Operator	Carmen Schmitt, Inc.
Well Name	DAVID 1
Doc ID	1537738

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	24	1125	65/35 Poz	525	3%cc,2%gel

COPELAND
Acid & Cement

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

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

Invoice

INVOICE NUMBER: C50363-IN

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

LEASE: DAVID #1

DATE	ORDER	SALESMAN	ORDER DATE	PURCHASE ORDER	SPECIAL INSTRUCTIONS
01/18/2021	50363		01/10/2021	DAVID #1	NET 30

QUANTITY	U/M	ITEM NO./DESCRIPTION	D/C	PRICE	EXTENSION
40.00	MI	MILEAGE PICKUP	24.00	2.00	60.80
40.00	MI	MILEAGE CEMENT PUMP TRUCK	24.00	4.00	121.60
1.00	EA	PUMP CHARGE SURFACE	24.00	1,100.00	836.00
300.00	SK	60/40 POZ MIX 2% GEL	24.00	11.25	2,565.00
225.00	SK	65/35 POZ MIX 2% GEL	24.00	11.50	1,966.50
11.00	SK	2% ADDITIONAL GEL	24.00	24.00	200.64
28.00	SK	CALCIUM CHLORIDE	24.00	40.00	851.20
1.00	EA	8 5/8" BAFFLE PLATE	24.00	105.00	79.80
1.00	EA	8 5/8" WOOD PLUG	24.00	65.00	49.40
564.00	EA	BULK CHARGE	24.00	1.25	535.80
974.00	MI	BULK TRUCK - TON MILES	24.00	1.10	814.26

7/10/43
19831.0001
Well Cl4
BCP Surface Cement

REMIT TO:
P.O. BOX 438
HAYSVILLE, KS 67060

RECEIVED BY

COP

FUEL SURCHARGE IS NOT TAXABLE AND IS ADDED TO MILEAGE, PUMP AND OR DELIVERY CHARGES ONLY.

NET 30 DAYS

Net Invoice:	8,081.00
FORCO Sales Tax:	618.20
Invoice Total:	**8,699.20**

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

COPELAND Acid & Cement

FIELD ORDER N° C 50363

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

DATE 10-Jan 20 21

IS AUTHORIZED BY: Carmen Schmitt
(NAME OF CUSTOMER)

Address _____ City _____ State _____

TO TREAT WELL
AS FOLLOWS Lease David Well No. 1 Customer Order No. _____

Sec. Twp.
Range _____ County Ford 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
20.0001	40	Mileage P.U.	$2.00	$80.00
20.0002	40	Mileage P.T.	$4.00	$160.00
20.0005	1	Pump Charge Surface	$1,100.00	$1,100.00
20.1002	300	60/40 Poz 2% Gel	$11.25	$3,375.00
20.1003	225	65/35 Poz 2% Gel	$11.50	$2,587.50
20.1004	11	Add. Gel after 2% Per Sack	$24.00	$264.00
20.1012	28	Calcium Chloride per 50 lb.	$40.00	$1,120.00
20.2018	1	8 5/8" Baffle Plate	$105.00	$105.00
20.202	1	8 5/8" Wood Plug	$65.00	$65.00
20.0011	564	Bulk Charge	$1.25	$705.00
20.0012	974	Bulk Truck Miles	$1.10	$1,071.40
		Process License Fee on Gallons		
		TOTAL BILLING		$10,632.90

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. 8081.00

Copeland Representative _____

Station _____ Matt S.
Well Owner, Operator or Agent

Remarks _____

NET 30 DAYS

TREATMENT REPORT

Acid Stage No. _____

Date 1/10/2021 District GB F.O. No. 50363

Company Carmen Schmitt

Well Name & No. David #1

Location _____ Field _____

County Ford State KS

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 Perforated from _____ ft. to _____ ft

Tubing: Size & Wt. _____ Swung at _____ ft

Perforated from _____ ft. to _____ ft

Open Hole Size _____ T.D. _____ ft. P.B. to _____ ft

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

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 317

Personnel Nathan-Greg-Clarence

Auxiliary Tools _____

Plugging or Sealing Materials: Type _____

_____ Gals. _____ lb.

Company Representative Matt S. Treater Nathan W.

TIME	PRESSURES		Total Fluid Pumped	REMARKS
a.m./p.m.	Tubing	Casing		
8:30		8 5/8"		On Location.
				Break circulation with mud pump.
				Mix 300sks 65/35poz 6%gel 3% C.C.
				Mix 225sks 60/40poz 2%gel 3% C.C.
				Displace with with 70.4bbls at 2.5bpm-600# Circulated
				cement to surface.
				Plug landed at 1000#
10:45				Shut in.
				Thank You!
				Nathan W.

DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc**

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

David #1

26-28s-26w Ford,KS

Start Date: 2021.01.18 @ 14:04:01
End Date: 2021.01.18 @ 16:42:56
Job Ticket #: 66790 DST #: 1

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

Printed: 2021.01.25 @ 14:25:54

DRILL STEM TEST REPORT

Carmen Schmitt, Inc

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

26-28s-26w Ford,KS

David #1

Job Ticket: 66790 **DST#: 1**

Test Start: 2021.01.18 @ 14:04:01

GENERAL INFORMATION:

Formation: **Pawnee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:32:26
Time Test Ended: 16:42:56

Test Type: Conventional Bottom Hole (Initial)
Tester: Brandon Turley
Unit No: 79

Interval: 5017.00 ft (KB) To 5058.00 ft (KB) (TVD)
Total Depth: 5058.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

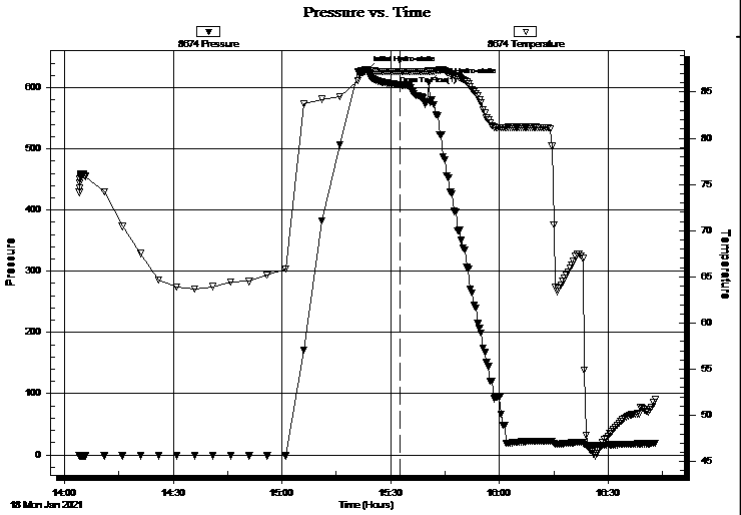
Reference Elevations: 2690.00 ft (KB)
2680.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8674 **Outside**

Press@RunDepth: psig @ 5018.00 ft (KB)
Start Date: 2021.01.18 End Date: 2021.01.18
Start Time: 14:04:01 End Time: 16:42:56

Capacity: 8000.00 psig
Last Calib.: 2021.01.18
Time On Btm: 2021.01.18 @ 15:23:26
Time Off Btm: 2021.01.18 @ 15:40:26

TEST COMMENT: Hit a bridge 1252'



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	628.46	87.27	Initial Hydro-static
9	604.45	87.21	Open To Flow (1)
17	607.94	87.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00		0.00

Gas Rates

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

DRILL STEM TEST REPORT

Carmen Schmitt, Inc

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

26-28s-26w Ford,KS

David #1

Job Ticket: 66790 **DST#: 1**

Test Start: 2021.01.18 @ 14:04:01

GENERAL INFORMATION:

Formation: **Pawnee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:32:26
Time Test Ended: 16:42:56

Test Type: Conventional Bottom Hole (Initial)
Tester: Brandon Turley
Unit No: 79

Interval: 5017.00 ft (KB) To 5058.00 ft (KB) (TVD)
Total Depth: 5058.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

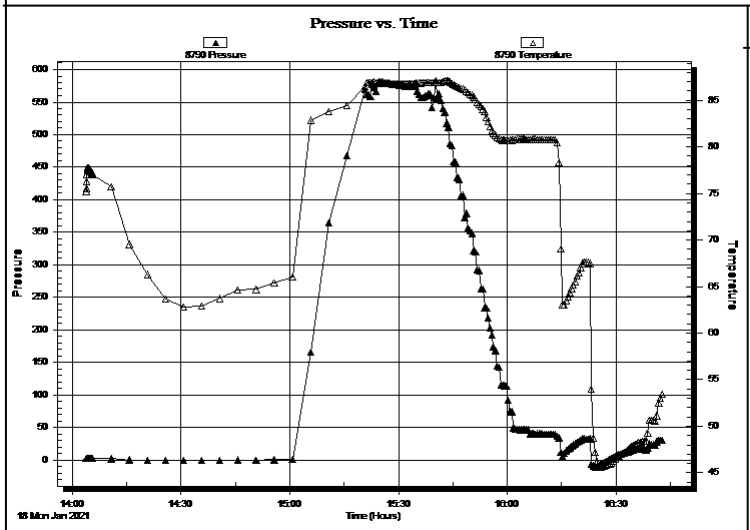
Reference Elevations: 2690.00 ft (KB)
2680.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8790 **Inside**

Press@RunDepth: psig @ 5018.00 ft (KB)
Start Date: 2021.01.18 End Date: 2021.01.18
Start Time: 14:03:50 End Time: 16:42:45

Capacity: 8000.00 psig
Last Calib.: 2021.01.18
Time On Btm:
Time Off Btm:

TEST COMMENT: Hit a bridge 1252'



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
0.00		0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt, Inc

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

26-28s-26w Ford,KS

David #1

Job Ticket: 66790 **DST#: 1**

Test Start: 2021.01.18 @ 14:04:01

Tool Information

Drill Pipe:	Length:	5003.00 ft	Diameter:	3.80 inches	Volume:	70.18 bbl	Tool Weight:		20000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:		10000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:		20000.00 lb
					Total Volume:	70.18 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		16.00 ft					String Weight:	Initial	20000.00 lb
Depth to Top Packer:		5017.00 ft						Final	20000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		41.00 ft							
Tool Length:		71.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Stubb	1.00			4988.00		
Shut In Tool	5.00			4993.00		
Hydraulic tool	5.00			4998.00		
Jars	5.00			5003.00		
EM Tool	3.00			5006.00		
Safety Joint	2.00			5008.00		
Packer	5.00			5013.00	30.00	Bottom Of Top Packer
Packer	4.00			5017.00		
Stubb	1.00			5018.00		
Recorder	0.00	8790	Inside	5018.00		
Recorder	0.00	8674	Outside	5018.00		
Perforations	3.00			5021.00		
Change Over Sub	1.00			5022.00		
Drill Pipe	32.00			5054.00		
Change Over Sub	1.00			5055.00		
Bullnose	3.00			5058.00	41.00	Bottom Packers & Anchor
Total Tool Length:	**71.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

26-28s-26w Ford,KS

David #1

Job Ticket: 66790 **DST#: 1**

Test Start: 2021.01.18 @ 14:04:01

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:	7.98 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

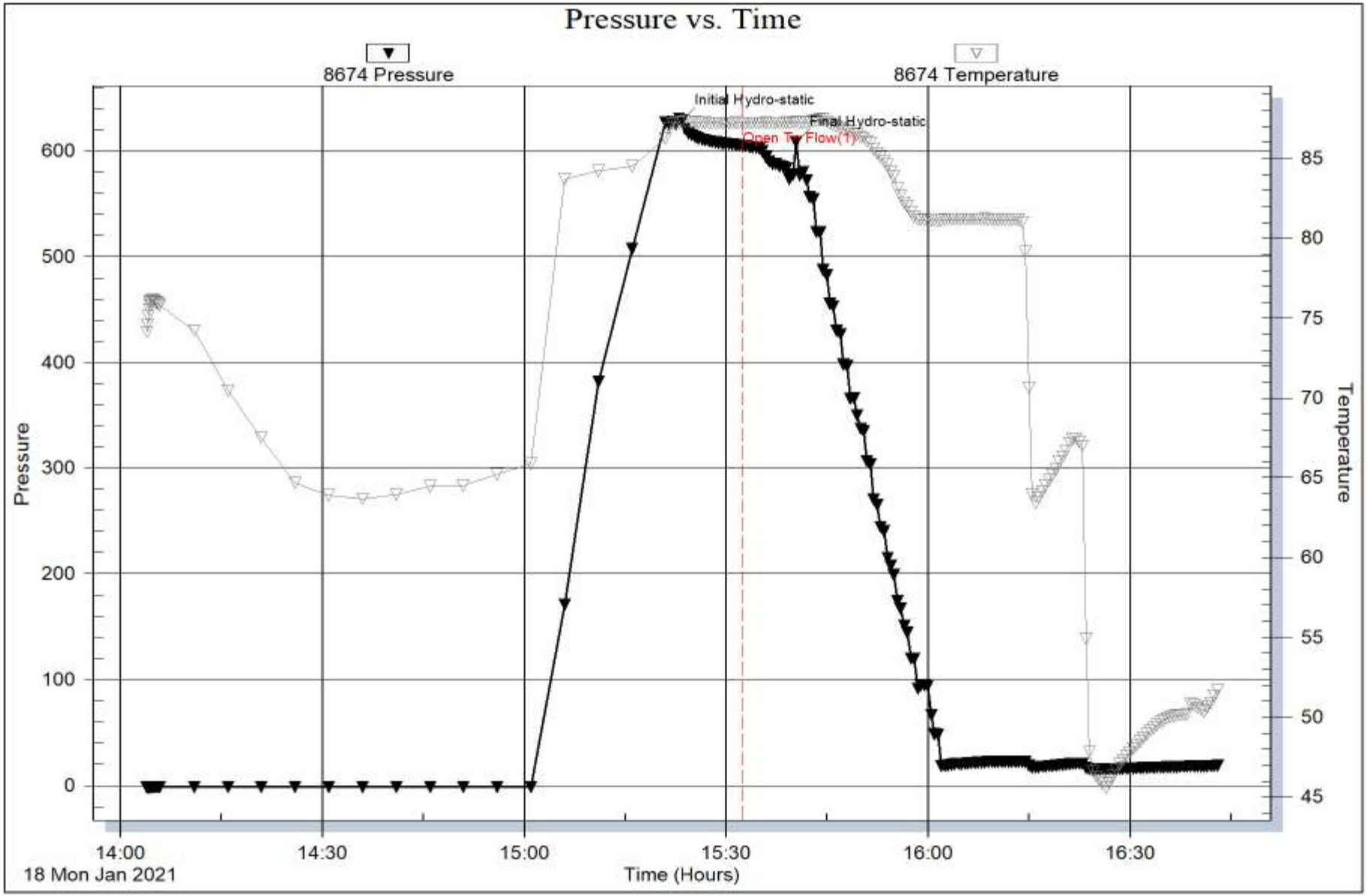
Recovery Table

Length ft	Description	Volume bbl
0.00		0.000

Total Length: ft Total Volume: bbl

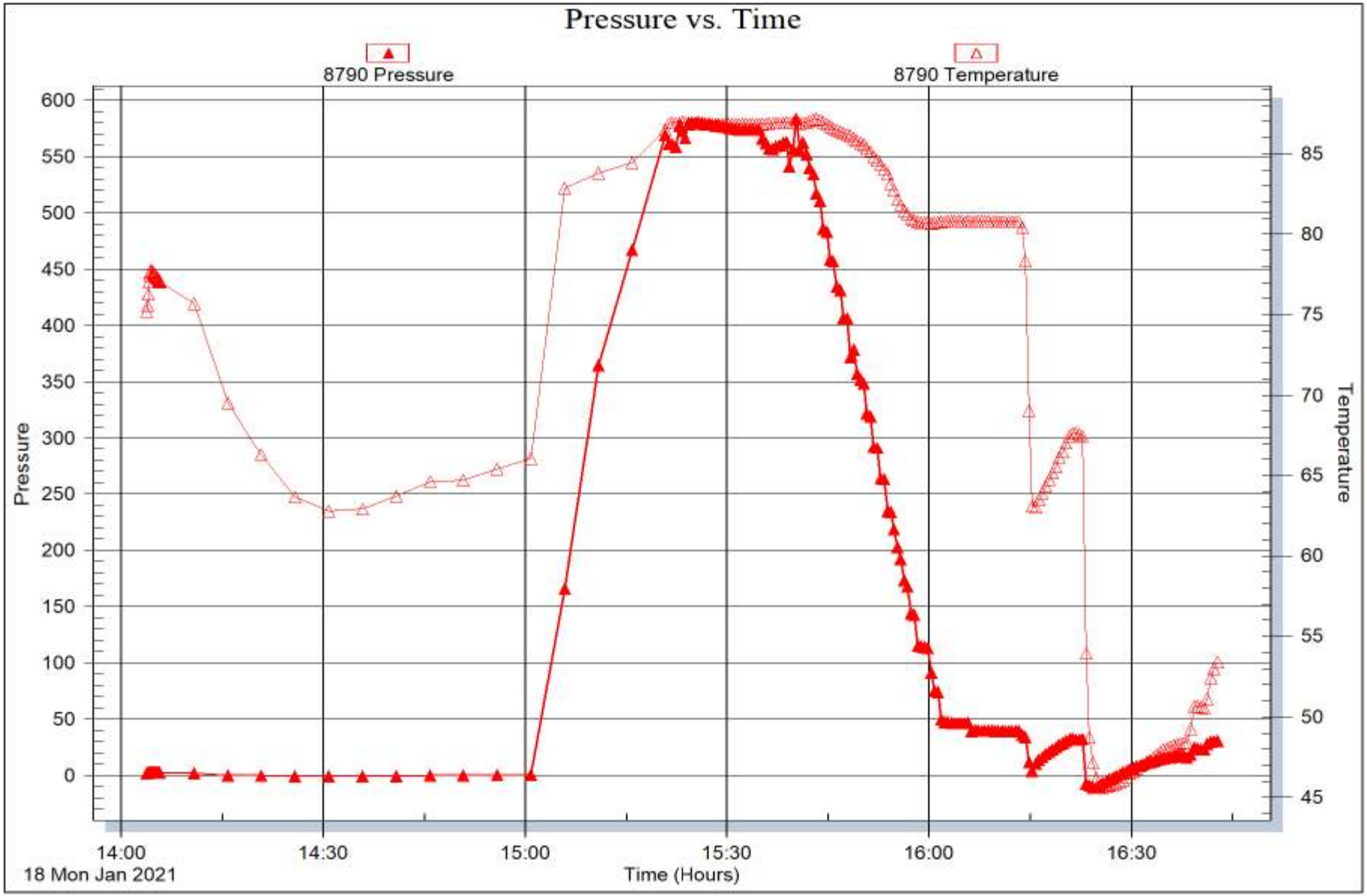
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8674 **Outside** Carmen Schmitt, Inc David #1 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 66790 Printed: 2021.01.25 @ 14:25:55

Serial #: 8790 **Inside** Carmen Schmitt, Inc David #1 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 66790 Printed: 2021.01.25 @ 14:25:55

DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc**

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

David #1

26-28s-26w Ford,KS

Start Date: 2021.01.18 @ 23:12:27
End Date: 2021.01.19 @ 07:56:57
Job Ticket #: 66791 DST #: 2

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

Printed: 2021.01.25 @ 14:25:15

DRILL STEM TEST REPORT

Carmen Schmitt, Inc

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

26-28s-26w Ford,KS

David #1

Job Ticket: 66791 **DST#: 2**

Test Start: 2021.01.18 @ 23:12:27

GENERAL INFORMATION:

Formation: **Pawnee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:09:57
Time Test Ended: 07:56:57

Test Type: Conventional Bottom Hole (Reset)
Tester: Brandon Turley
Unit No: 79

Interval: 5017.00 ft (KB) To 5058.00 ft (KB) (TVD)
Total Depth: 5058.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

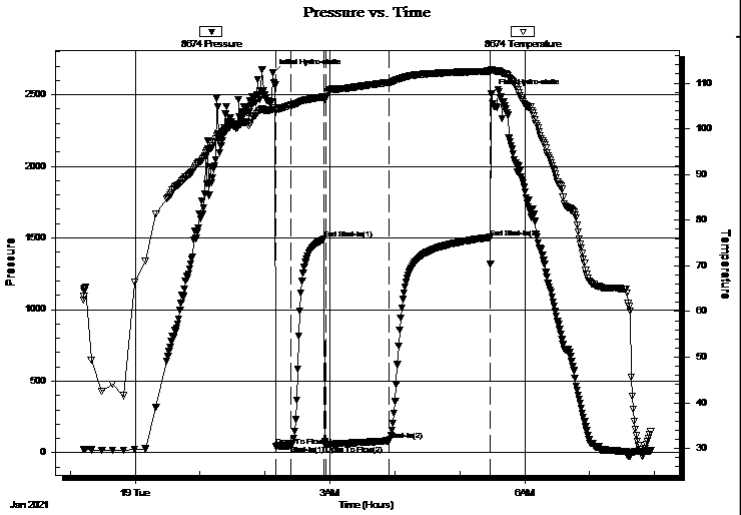
Reference Elevations: 2690.00 ft (KB)
2680.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8674 **Outside**

Press@RunDepth: 83.51 psig @ 5018.00 ft (KB)
Start Date: 2021.01.18 End Date: 2021.01.19
Start Time: 23:12:32 End Time: 07:56:57

Capacity: 8000.00 psig
Last Calib.: 2021.01.19
Time On Btm: 2021.01.19 @ 02:07:27
Time Off Btm: 2021.01.19 @ 05:29:27

TEST COMMENT: IF: 1/4" blow built to 8 3/4"
IS: No return.
FF: BOB in 3 mins. 78"
FS: No return, 15-30-60-90



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2651.25	104.25	Initial Hydro-static
3	44.93	104.11	Open To Flow (1)
17	51.98	105.15	Shut-In(1)
48	1494.15	106.99	End Shut-In(1)
49	54.20	106.57	Open To Flow (2)
107	83.51	110.13	Shut-In(2)
201	1503.71	112.64	End Shut-In(2)
202	2507.79	113.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
126.00	gocw m 40%g 2%o 5%w 53%m	1.77
0.00	1134' GIP	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Carmen Schmitt, Inc

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

26-28s-26w Ford,KS

David #1

Job Ticket: 66791 **DST#: 2**

Test Start: 2021.01.18 @ 23:12:27

GENERAL INFORMATION:

Formation: **Pawnee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:09:57
Time Test Ended: 07:56:57

Test Type: Conventional Bottom Hole (Reset)
Tester: Brandon Turley
Unit No: 79

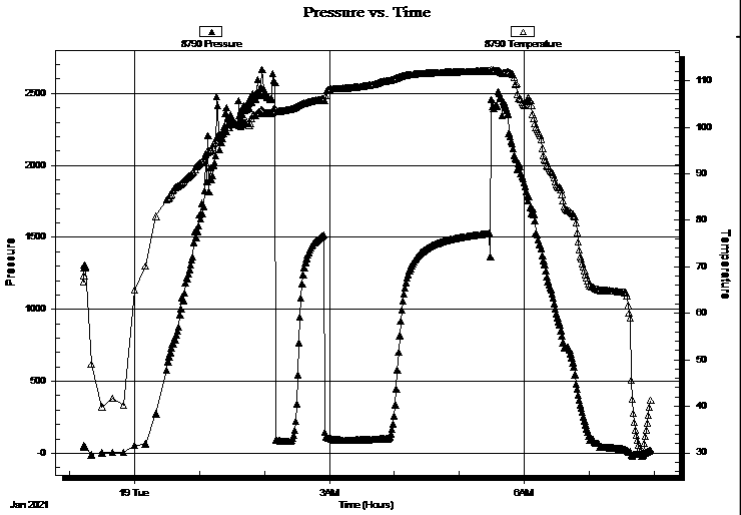
Interval: 5017.00 ft (KB) To 5058.00 ft (KB) (TVD)
Total Depth: 5058.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2690.00 ft (KB)
2680.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8790 **Inside**
Press@RunDepth: psig @ 5018.00 ft (KB)
Start Date: 2021.01.18 End Date: 2021.01.19
Start Time: 23:12:53 End Time: 07:57:18

Capacity: 8000.00 psig
Last Calib.: 2021.01.19
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: 1/4" blow built to 8 3/4"
IS: No return.
FF: BOB in 3 mins. 78"
FS: No return, 15-30-60-90



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
126.00	gocw m 40%g 2%o 5%w 53%m	1.77
0.00	1134' GIP	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt, Inc

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

26-28s-26w Ford,KS

David #1

Job Ticket: 66791 **DST#: 2**

Test Start: 2021.01.18 @ 23:12:27

Tool Information

Drill Pipe:	Length:	5003.00 ft	Diameter:	3.80 inches	Volume:	70.18 bbl	Tool Weight:		20000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:		30000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:		65000.00 lb
					Total Volume:	70.18 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		16.00 ft					String Weight:	Initial	50000.00 lb
Depth to Top Packer:		5017.00 ft						Final	50000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		41.00 ft							
Tool Length:		71.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Stubb	1.00			4988.00		
Shut In Tool	5.00			4993.00		
Hydraulic tool	5.00			4998.00		
Jars	5.00			5003.00		
EM Tool	3.00			5006.00		
Safety Joint	2.00			5008.00		
Packer	5.00			5013.00	30.00	Bottom Of Top Packer
Packer	4.00			5017.00		
Stubb	1.00			5018.00		
Recorder	0.00	8790	Inside	5018.00		
Recorder	0.00	8674	Outside	5018.00		
Perforations	3.00			5021.00		
Change Over Sub	1.00			5022.00		
Drill Pipe	32.00			5054.00		
Change Over Sub	1.00			5055.00		
Bullnose	3.00			5058.00	41.00	Bottom Packers & Anchor
Total Tool Length:	**71.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

26-28s-26w Ford,KS

David #1

Job Ticket: 66791 **DST#: 2**

Test Start: 2021.01.18 @ 23:12:27

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:	7.98 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

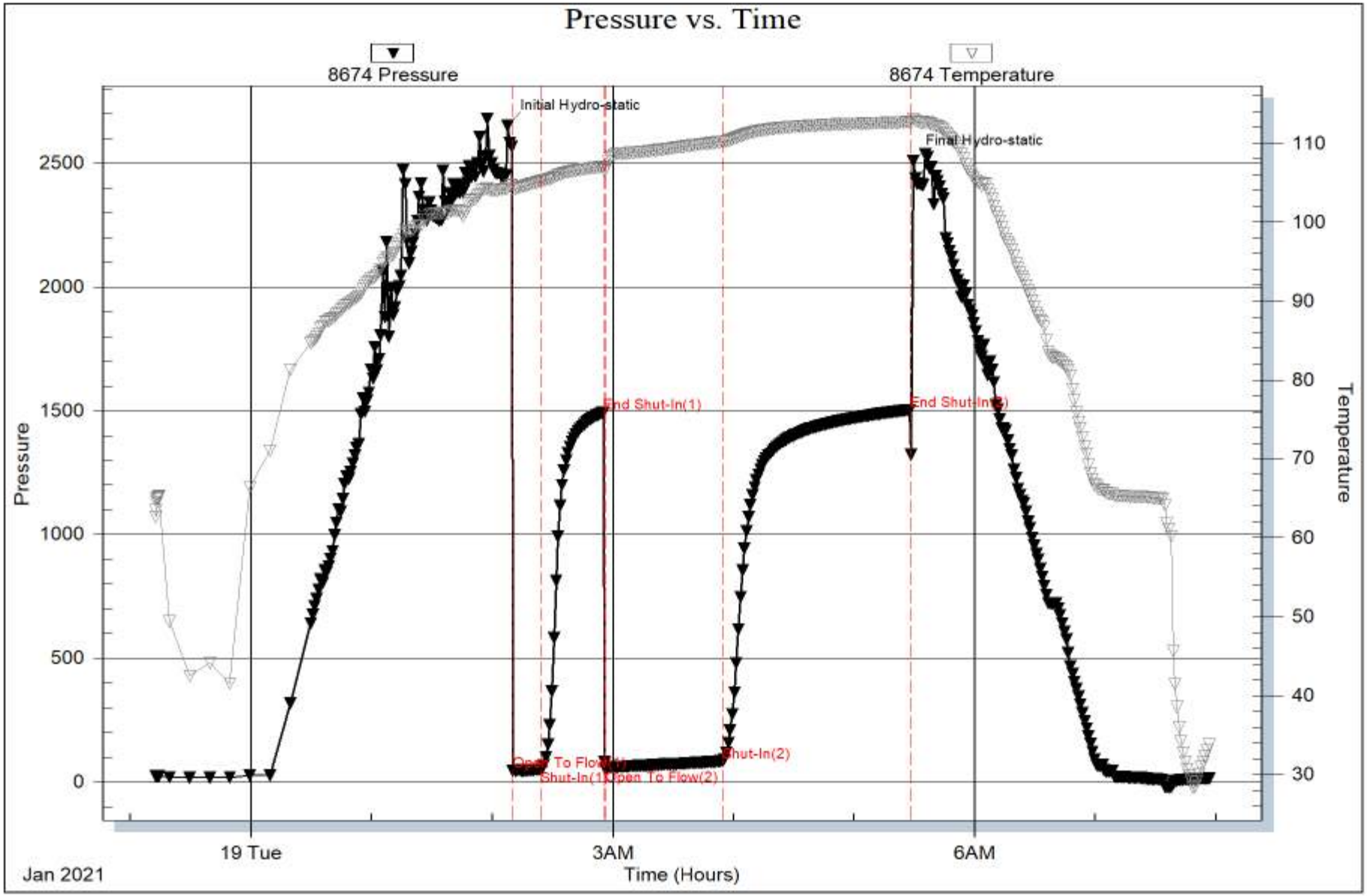
Recovery Table

Length ft	Description	Volume bbl
126.00	gocw m 40%g 2%o 5%w 53%m	1.767
0.00	1134' GIP	0.000

Total Length: 126.00 ft Total Volume: 1.767 bbl

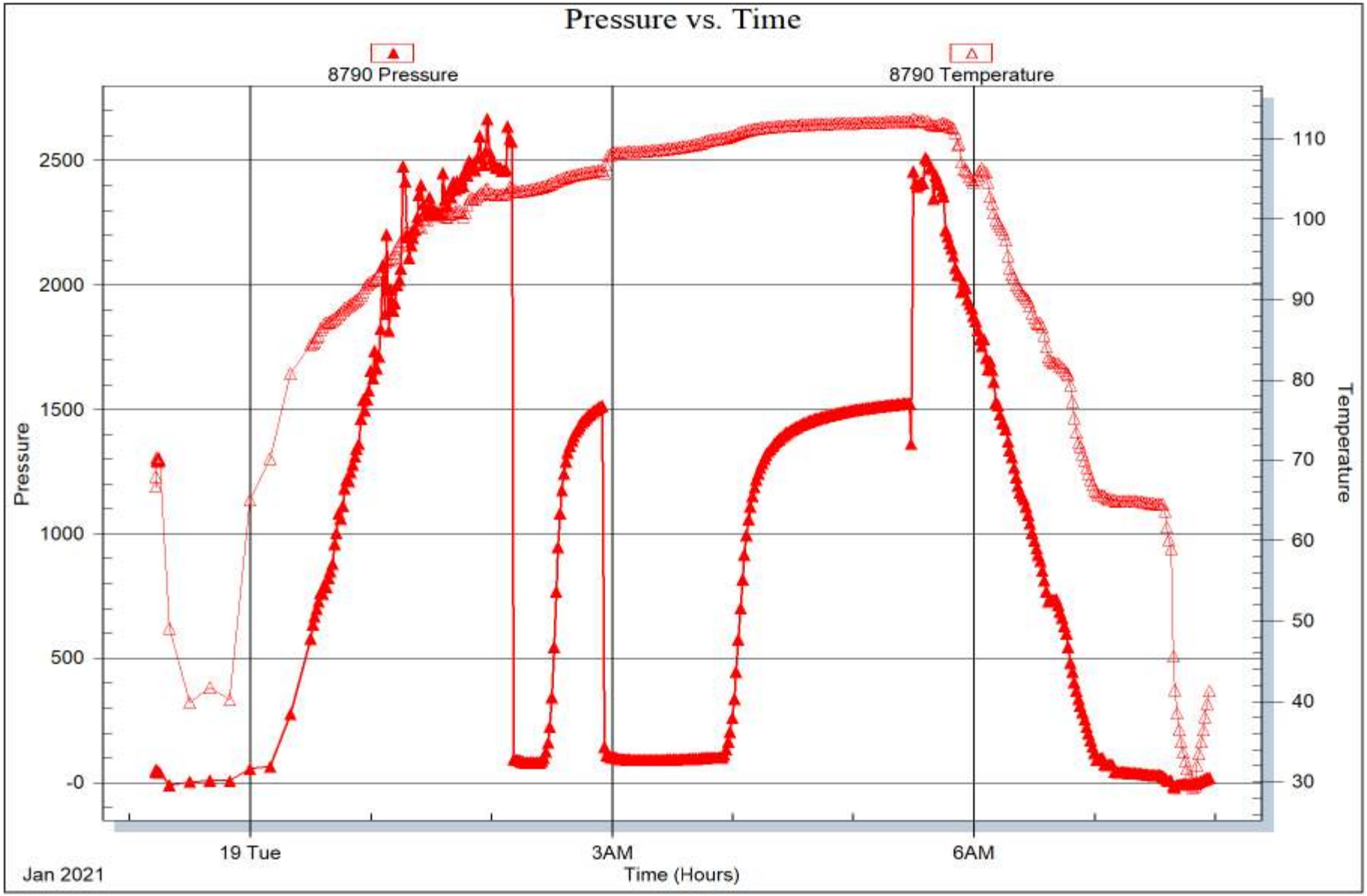
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8674 **Outside** Carmen Schmitt, Inc David #1 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 66791 Printed: 2021.01.25 @ 14:25:16

Serial #: 8790 **Inside** Carmen Schmitt, Inc David #1 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 66791 Printed: 2021.01.25 @ 14:25:16

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc**

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

David #1

26-28s-26w Ford,KS

Start Date: 2021.01.20 @ 07:54:57
End Date: 2021.01.20 @ 10:35:57
Job Ticket #: 66792 DST #: 3

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

Printed: 2021.01.25 @ 14:24:49

DRILL STEM TEST REPORT

Carmen Schmitt, Inc

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

26-28s-26w Ford,KS

David #1

Job Ticket: 66792 **DST#: 3**

Test Start: 2021.01.20 @ 07:54:57

GENERAL INFORMATION:

Formation: **Morrow**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:37:27
Time Test Ended: 10:35:57

Test Type: Conventional Bottom Hole (Reset)
Tester: Brandon Turley
Unit No: 79

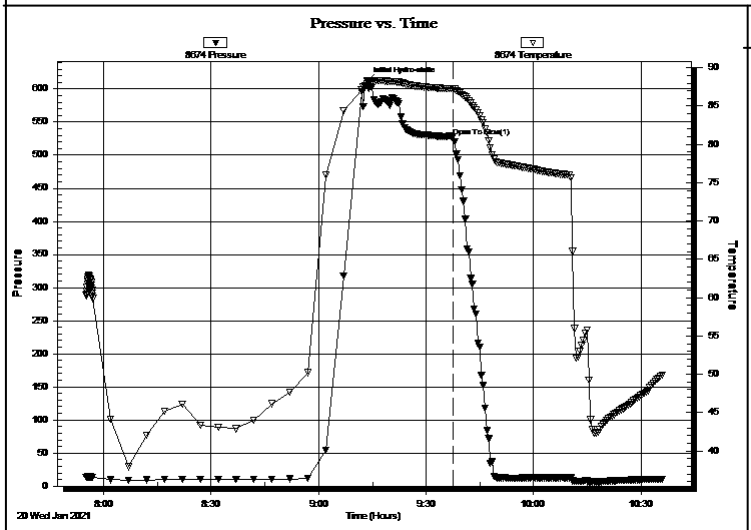
Interval: 5155.00 ft (KB) To 5245.00 ft (KB) (TVD)
Total Depth: 5245.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2690.00 ft (KB)
2680.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8674 **Outside**
Press@RunDepth: psig @ 5156.00 ft (KB)
Start Date: 2021.01.20 End Date: 2021.01.20
Start Time: 07:55:02 End Time: 10:35:57

Capacity: 8000.00 psig
Last Calib.: 2021.01.20
Time On Btm: 2021.01.20 @ 09:13:27
Time Off Btm:

TEST COMMENT: Hit Bridge at 1323'



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	611.78	87.91	Initial Hydro-static
24	527.71	87.24	Open To Flow (1)

Recovery

Length (ft)	Description	Volume (bbl)
0.00		0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Carmen Schmitt, Inc

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

26-28s-26w Ford,KS

David #1

Job Ticket: 66792 **DST#: 3**

Test Start: 2021.01.20 @ 07:54:57

GENERAL INFORMATION:

Formation: **Morrow**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:37:27
Time Test Ended: 10:35:57

Test Type: Conventional Bottom Hole (Reset)
Tester: Brandon Turley
Unit No: 79

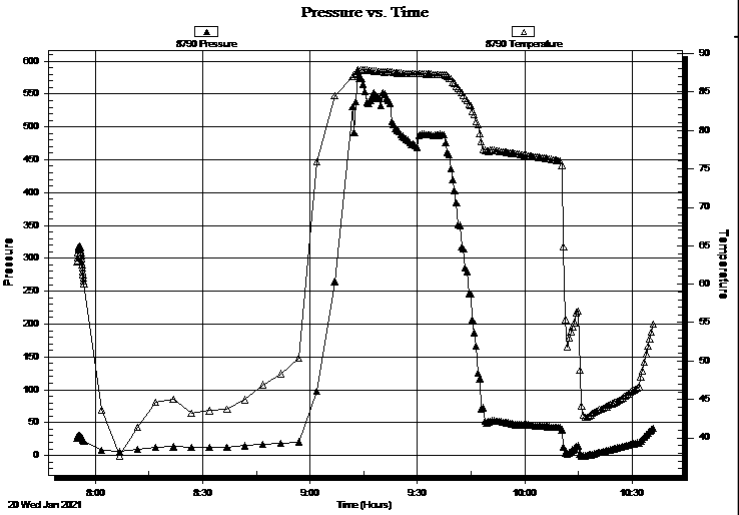
Interval: 5155.00 ft (KB) To 5245.00 ft (KB) (TVD)
Total Depth: 5245.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2690.00 ft (KB)
2680.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8790 **Inside**
Press@RunDepth: psig @ 5156.00 ft (KB)
Start Date: 2021.01.20 End Date: 2021.01.20
Start Time: 07:54:57 End Time: 10:35:52

Capacity: 8000.00 psig
Last Calib.: 2021.01.20
Time On Btm:
Time Off Btm:

TEST COMMENT: Hit Bridge at 1323'



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
0.00		0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt, Inc

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

26-28s-26w Ford,KS

David #1

Job Ticket: 66792 **DST#: 3**

Test Start: 2021.01.20 @ 07:54:57

Tool Information

Drill Pipe:	Length:	5155.00 ft	Diameter:	3.80 inches	Volume:	72.31 bbl	Tool Weight:		20000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:		26000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:		260000.0 lb
					Total Volume:	72.31 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		30.00 ft					String Weight:	Initial	26000.00 lb
Depth to Top Packer:		5155.00 ft						Final	26000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		90.00 ft							
Tool Length:		120.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Stubb	1.00			5126.00		
Shut In Tool	5.00			5131.00		
Hydraulic tool	5.00			5136.00		
Jars	5.00			5141.00		
EM Tool	3.00			5144.00		
Safety Joint	2.00			5146.00		
Packer	5.00			5151.00	30.00	Bottom Of Top Packer
Packer	4.00			5155.00		
Stubb	1.00			5156.00		
Recorder	0.00	8790	Inside	5156.00		
Recorder	0.00	8674	Outside	5156.00		
Perforations	21.00			5177.00		
Change Over Sub	1.00			5178.00		
Drill Pipe	63.00			5241.00		
Change Over Sub	1.00			5242.00		
Bullnose	3.00			5245.00	90.00	Bottom Packers & Anchor
Total Tool Length:	**120.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

26-28s-26w Ford,KS

David #1

Job Ticket: 66792 **DST#: 3**

Test Start: 2021.01.20 @ 07:54:57

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:	7.98 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

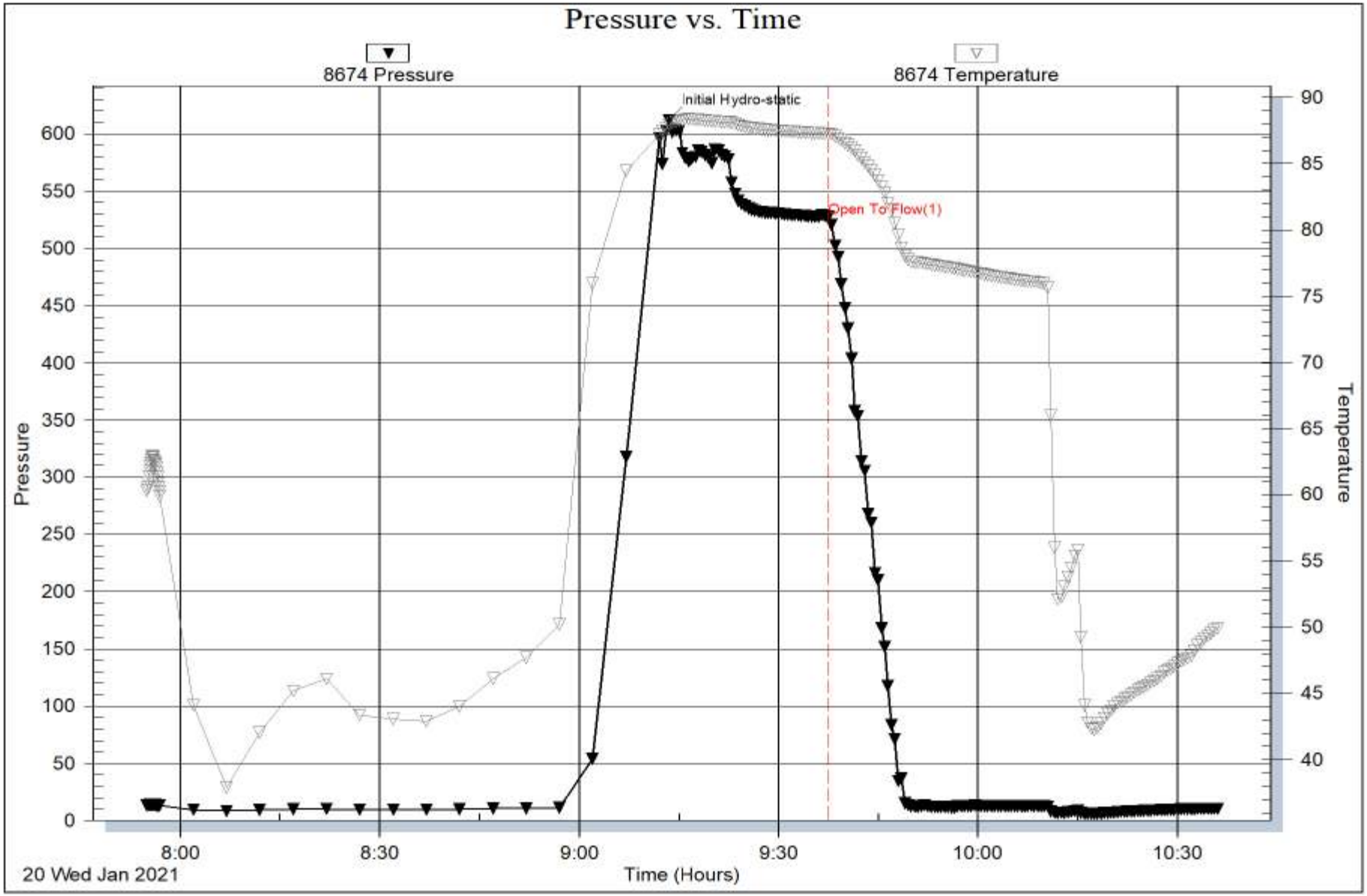
Recovery Table

Length ft	Description	Volume bbl
0.00		0.000

Total Length: ft Total Volume: bbl

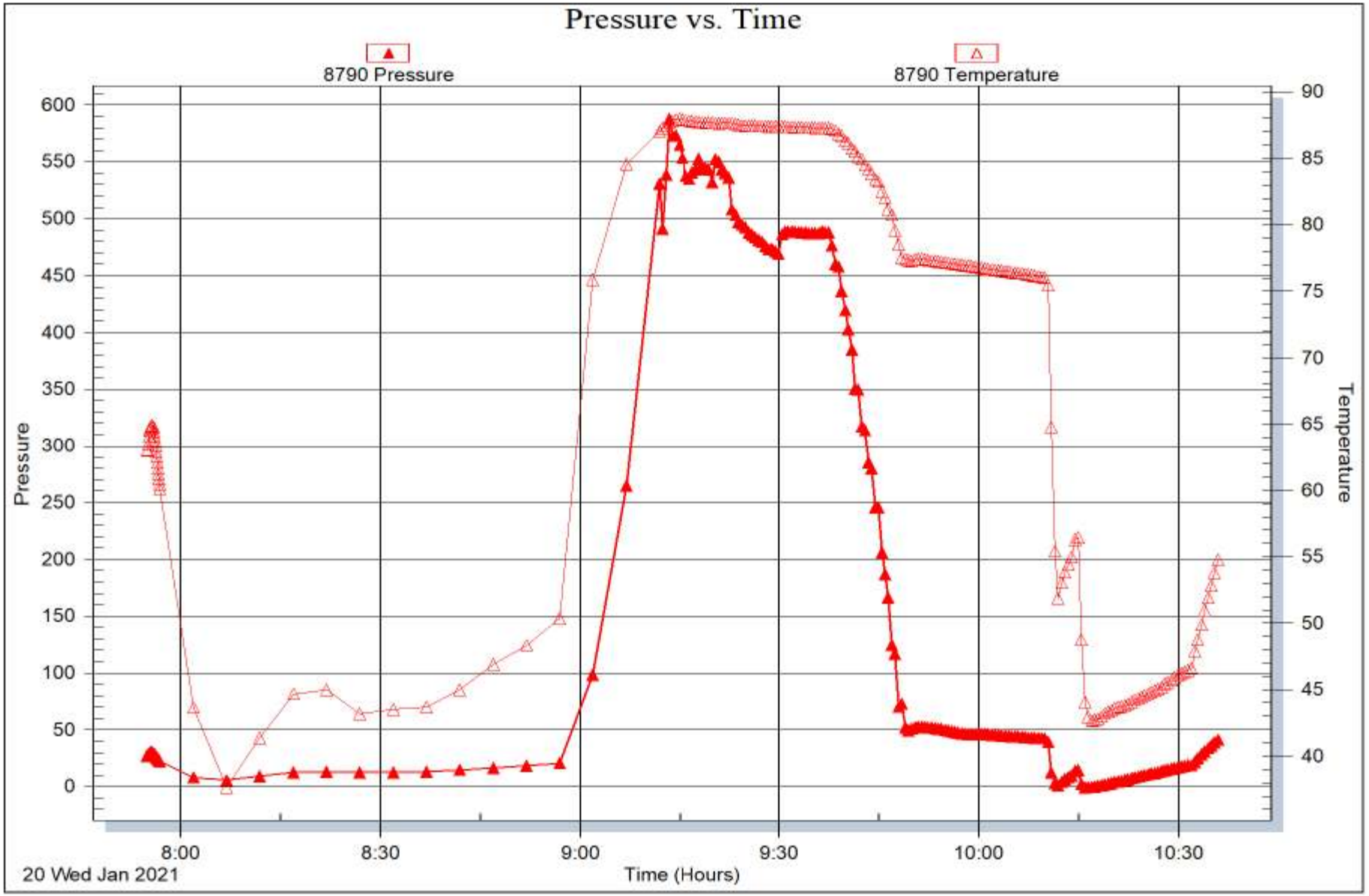
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8674 **Outside** Carmen Schmitt, Inc David #1 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 66792 Printed: 2021.01.25 @ 14:24:49

Serial #: 8790 **Inside** Carmen Schmitt, Inc David #1 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 66792 Printed: 2021.01.25 @ 14:24:49

DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc**

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

David #1

26-28s-26w Ford,KS

Start Date: 2021.01.20 @ 17:12:39
End Date: 2021.01.21 @ 01:13:09
Job Ticket #: 66793 DST #: 4

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

Printed: 2021.01.25 @ 14:24:17

DRILL STEM TEST REPORT

Carmen Schmitt, Inc

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

26-28s-26w Ford,KS

David #1

Job Ticket: 66793 **DST#: 4**

Test Start: 2021.01.20 @ 17:12:39

GENERAL INFORMATION:

Formation: **Morrow**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:33:39
Time Test Ended: 01:13:09

Test Type: Conventional Bottom Hole (Reset)
Tester: Brandon Turley
Unit No: 79

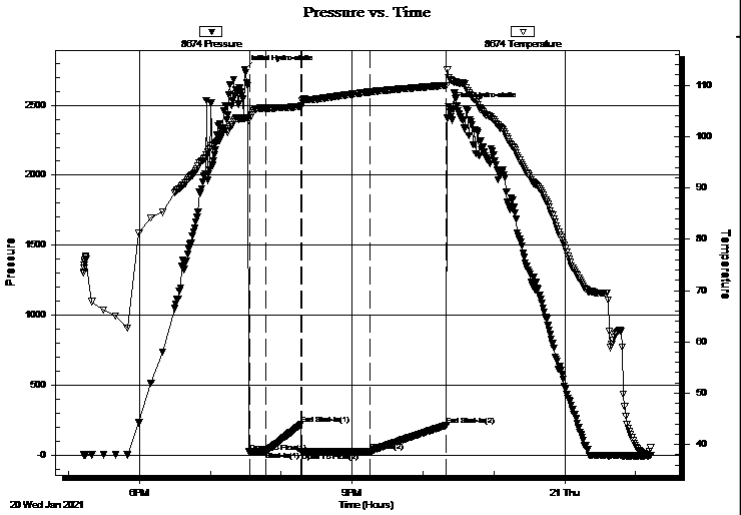
Interval: 5155.00 ft (KB) To 5245.00 ft (KB) (TVD)
Total Depth: 5245.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2690.00 ft (KB)
2680.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8674 **Outside**
Press@RunDepth: 25.51 psig @ 5156.00 ft (KB)
Start Date: 2021.01.20 End Date: 2021.01.21
Start Time: 17:12:44 End Time: 01:13:08

Capacity: 8000.00 psig
Last Calib.: 2021.01.21
Time On Btm: 2021.01.20 @ 19:29:09
Time Off Btm: 2021.01.20 @ 22:21:39

TEST COMMENT: IF: 1/4" blow built to 3 3/4"
IS: No return.
FF: 5" blow BOB in 32 mins. 12"
FS: No return. 15-30-60-60



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2756.17	103.52	Initial Hydro-static
5	24.17	103.71	Open To Flow (1)
18	27.71	105.56	Shut-In(1)
48	220.24	105.85	End Shut-In(1)
48	23.58	106.02	Open To Flow (2)
106	25.51	108.68	Shut-In(2)
171	214.08	109.97	End Shut-In(2)
173	2490.68	111.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	mud 100%m	0.28
0.00	106' GIP	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Carmen Schmitt, Inc

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

26-28s-26w Ford,KS

David #1

Job Ticket: 66793 **DST#: 4**

Test Start: 2021.01.20 @ 17:12:39

GENERAL INFORMATION:

Formation: **Morrow**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:33:39
Time Test Ended: 01:13:09

Test Type: Conventional Bottom Hole (Reset)
Tester: Brandon Turley
Unit No: 79

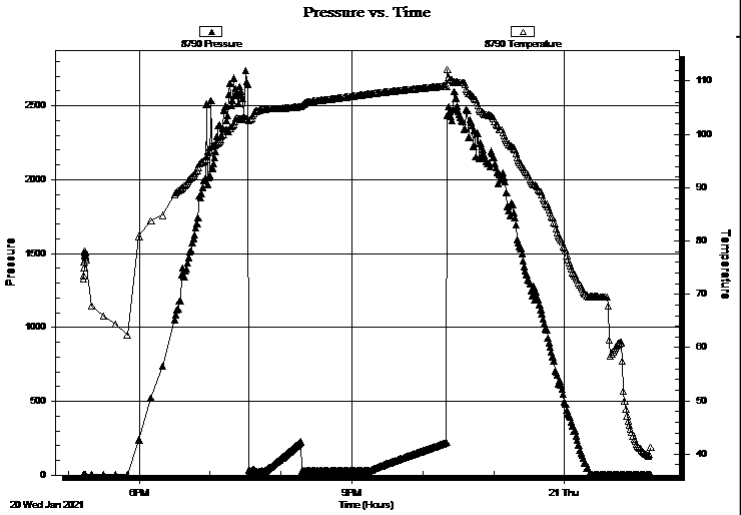
Interval: 5155.00 ft (KB) To 5245.00 ft (KB) (TVD)
Total Depth: 5245.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2690.00 ft (KB)
2680.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8790 **Inside**
Press@RunDepth: psig @ 5156.00 ft (KB)
Start Date: 2021.01.20 End Date: 2021.01.21
Start Time: 17:13:00 End Time: 01:13:24

Capacity: 8000.00 psig
Last Calib.: 2021.01.21
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: 1/4" blow built to 3 3/4"
IS: No return.
FF: 5" blow BOB in 32 mins. 12"
FS: No return. 15-30-60-60



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
20.00	mud 100%m	0.28
0.00	106' GIP	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt, Inc

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

26-28s-26w Ford,KS

David #1

Job Ticket: 66793 **DST#: 4**

Test Start: 2021.01.20 @ 17:12:39

Tool Information

Drill Pipe:	Length:	5131.00 ft	Diameter:	3.80 inches	Volume:	71.97 bbl	Tool Weight:		20000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:		30000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:		80000.00 lb
					Total Volume:	71.97 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		6.00 ft					String Weight:	Initial	56000.00 lb
Depth to Top Packer:		5155.00 ft						Final	56000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		90.00 ft							
Tool Length:		120.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Stubb	1.00			5126.00		
Shut In Tool	5.00			5131.00		
Hydraulic tool	5.00			5136.00		
Jars	5.00			5141.00		
EM Tool	3.00			5144.00		
Safety Joint	2.00			5146.00		
Packer	5.00			5151.00	30.00	Bottom Of Top Packer
Packer	4.00			5155.00		
Stubb	1.00			5156.00		
Recorder	0.00	8790	Inside	5156.00		
Recorder	0.00	8674	Outside	5156.00		
Perforations	21.00			5177.00		
Change Over Sub	1.00			5178.00		
Drill Pipe	63.00			5241.00		
Change Over Sub	1.00			5242.00		
Bullnose	3.00			5245.00	90.00	Bottom Packers & Anchor
Total Tool Length:	**120.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

26-28s-26w Ford,KS

David #1

Job Ticket: 66793 **DST#: 4**

Test Start: 2021.01.20 @ 17:12:39

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:	68.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.19 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4000.00 ppm				
Filter Cake:	1.00 inches				

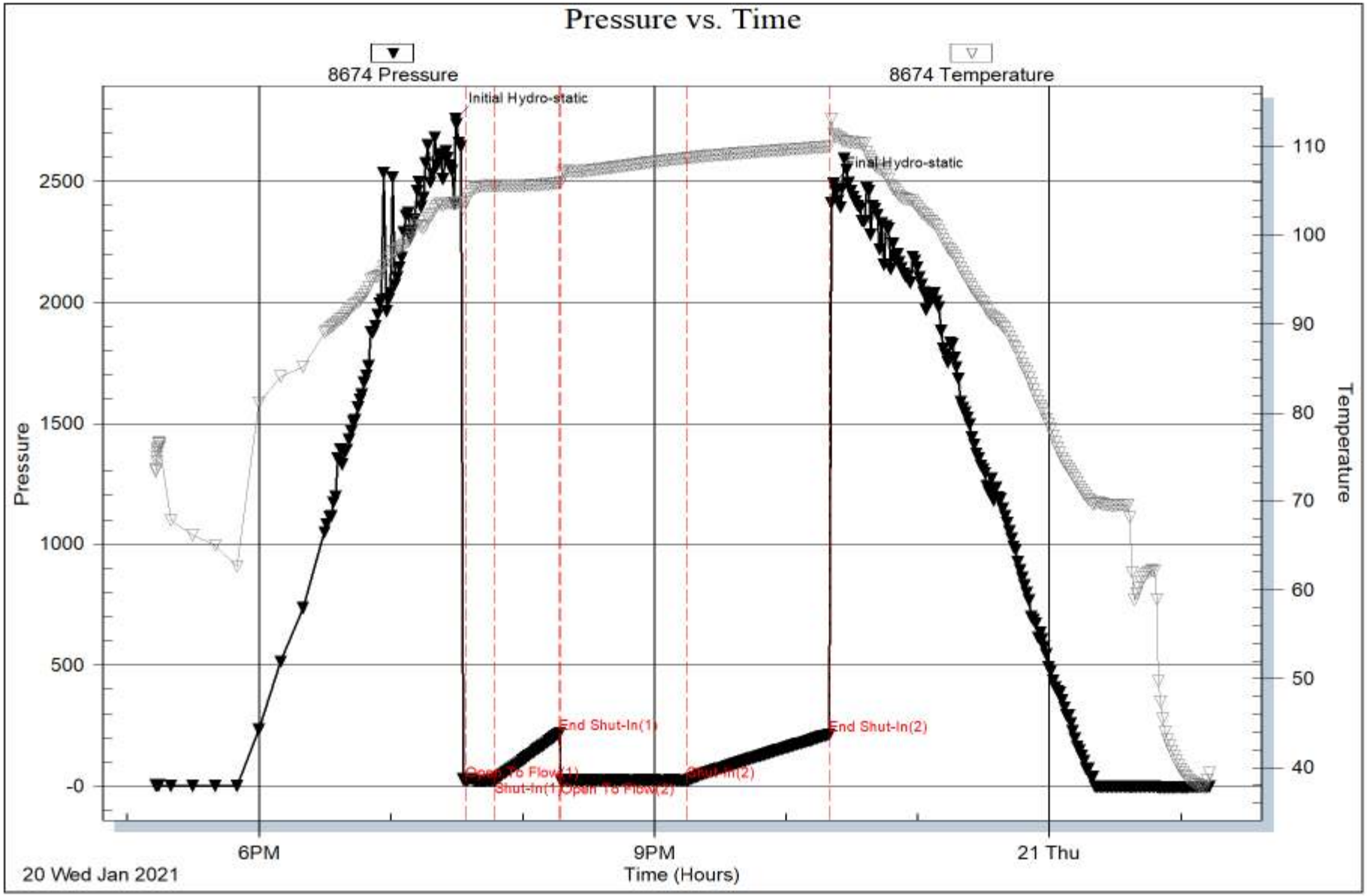
Recovery Information

Recovery Table

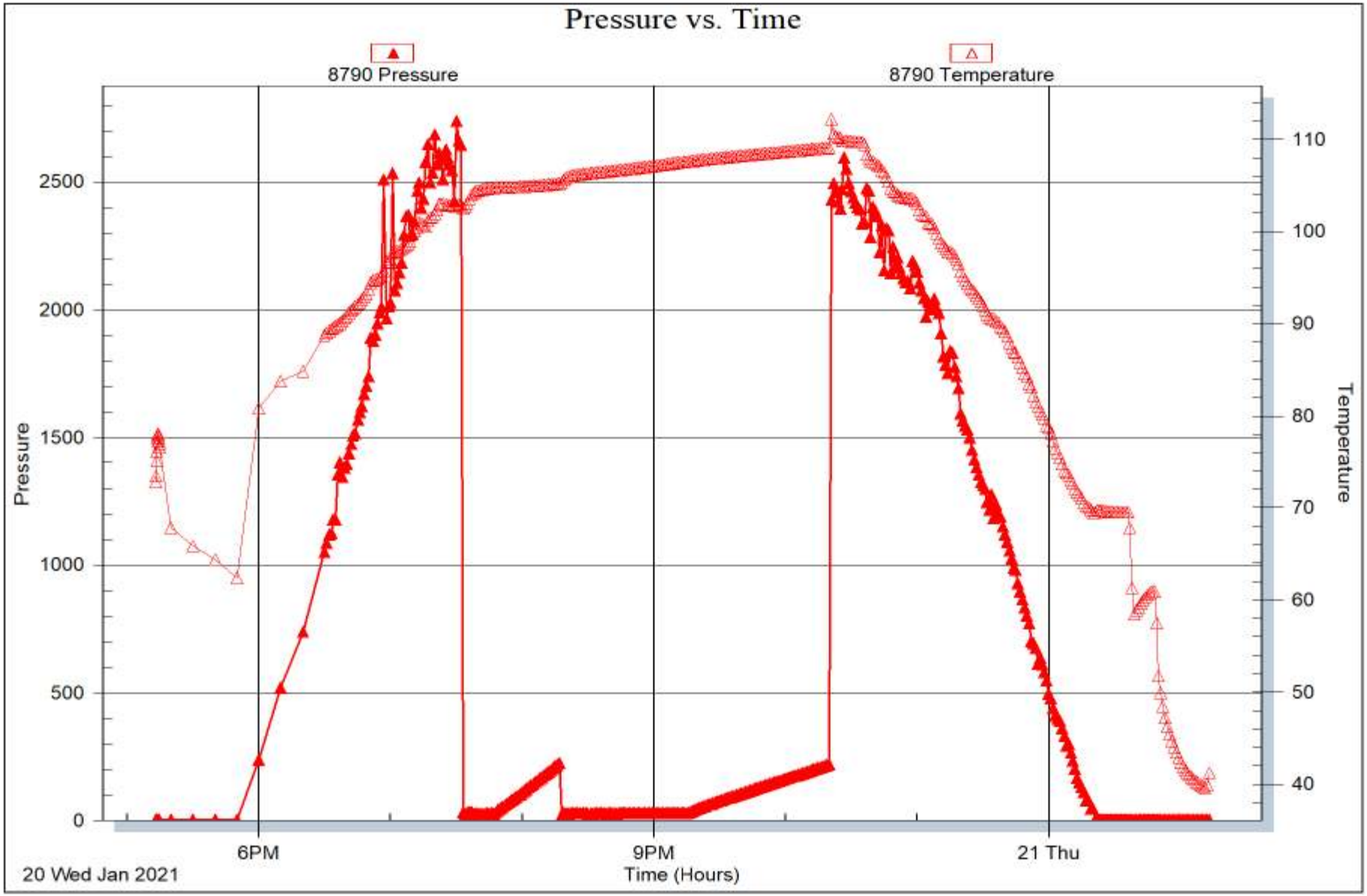
Length ft	Description	Volume bbl
20.00	mud 100%m	0.281
0.00	106' GIP	0.000

Total Length: 20.00 ft Total Volume: 0.281 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:


Pressure vs. Time
8674 Pressure
8674 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Pressure
Temperature
2500
2000
1500
1000
500
-0
110
100
90
80
70
60
50
40
6PM
9PM
21 Thu
20 Wed Jan 2021
Time (Hours)

Serial #: 8790 **Inside** Carmen Schmitt, Inc David #1 DST Test Number: 4



Trilobite Testing, Inc Ref. No: 66793 Printed: 2021.01.25 @ 14:24:18

DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc**

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

David #1

26-28s-26w Ford,KS

Start Date: 2021.01.22 @ 00:58:19
End Date: 2021.01.22 @ 08:35:19
Job Ticket #: 66794 DST #: 5

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

Printed: 2021.01.25 @ 14:23:51

DRILL STEM TEST REPORT

Carmen Schmitt, Inc

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

26-28s-26w Ford,KS

David #1

Job Ticket: 66794 **DST#: 5**

Test Start: 2021.01.22 @ 00:58:19

GENERAL INFORMATION:

Formation: **Miss**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:49:49
Time Test Ended: 08:35:19

Test Type: Conventional Bottom Hole (Reset)
Tester: Brandon Turley
Unit No: 79

Interval: 5245.00 ft (KB) To 5300.00 ft (KB) (TVD)
Total Depth: 5300.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

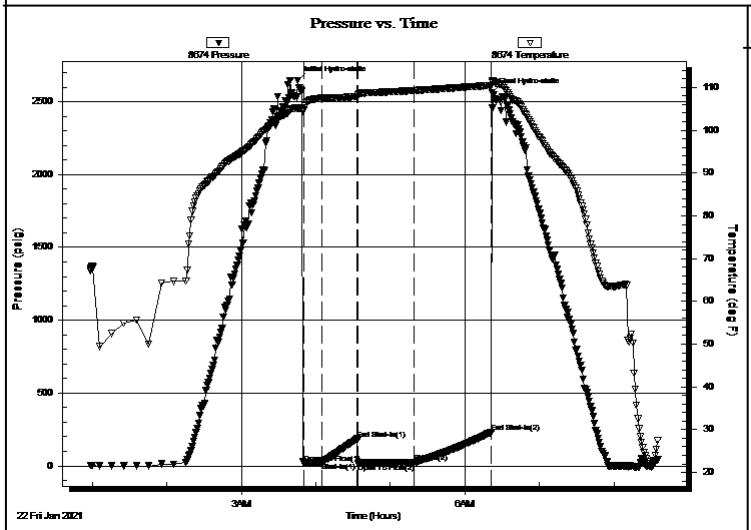
Reference Elevations: 2690.00 ft (KB)
2680.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8674 **Outside**

Press@RunDepth: 24.33 psig @ 5246.00 ft (KB)
Start Date: 2021.01.22 End Date: 2021.01.22
Start Time: 00:58:24 End Time: 08:35:18

Capacity: 8000.00 psig
Last Calib.: 2021.01.22
Time On Btm: 2021.01.22 @ 03:45:19
Time Off Btm: 2021.01.22 @ 06:21:49

TEST COMMENT: IF: 1/4" blow built to 3 1/2"
IS: No return.
FF: 2" blow built to 4"
FS: No return. 15-30-45-60



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2645.41	105.19	Initial Hydro-static
5	20.75	104.51	Open To Flow (1)
20	25.36	107.48	Shut-In(1)
48	185.82	107.85	End Shut-In(1)
49	17.91	108.21	Open To Flow (2)
94	24.33	109.28	Shut-In(2)
156	229.91	110.47	End Shut-In(2)
157	2561.63	111.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	w cm 2%w 98%m	0.21
0.00	111' GIP	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Carmen Schmitt, Inc

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

26-28s-26w Ford,KS

David #1

Job Ticket: 66794 **DST#: 5**

Test Start: 2021.01.22 @ 00:58:19

GENERAL INFORMATION:

Formation: **Miss**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:49:49
Time Test Ended: 08:35:19

Test Type: Conventional Bottom Hole (Reset)
Tester: Brandon Turley
Unit No: 79

Interval: 5245.00 ft (KB) To 5300.00 ft (KB) (TVD)
Total Depth: 5300.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

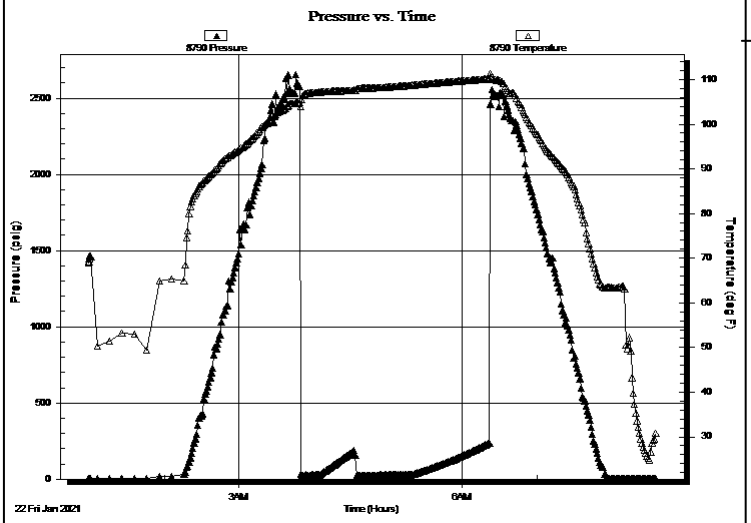
Reference Elevations: 2690.00 ft (KB)
2680.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8790 **Inside**

Press@RunDepth: psig @ 5246.00 ft (KB)
Start Date: 2021.01.22 End Date: 2021.01.22
Start Time: 00:58:56 End Time: 08:35:50

Capacity: 8000.00 psig
Last Calib.: 2021.01.22
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: 1/4" blow built to 3 1/2"
IS: No return.
FF: 2" blow built to 4"
FS: No return. 15-30-45-60



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
15.00	w cm 2%w 98%m	0.21
0.00	111' GIP	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt, Inc

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

26-28s-26w Ford,KS

David #1

Job Ticket: 66794 **DST#: 5**

Test Start: 2021.01.22 @ 00:58:19

Tool Information

Drill Pipe:	Length:	5226.00 ft	Diameter:	3.80 inches	Volume:	73.31 bbl	Tool Weight:		2000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:		30000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:		65000.00 lb
					Total Volume:	73.31 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		11.00 ft					String Weight:	Initial	45000.00 lb
Depth to Top Packer:		5245.00 ft						Final	45000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		55.00 ft							
Tool Length:		85.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Stubb	1.00			5216.00		
Shut In Tool	5.00			5221.00		
Hydraulic tool	5.00			5226.00		
Jars	5.00			5231.00		
EM Tool	3.00			5234.00		
Safety Joint	2.00			5236.00		
Packer	5.00			5241.00	30.00	Bottom Of Top Packer
Packer	4.00			5245.00		
Stubb	1.00			5246.00		
Recorder	0.00	8790	Inside	5246.00		
Recorder	0.00	8674	Outside	5246.00		
Perforations	18.00			5264.00		
Change Over Sub	1.00			5265.00		
Drill Pipe	31.00			5296.00		
Change Over Sub	1.00			5297.00		
Bullnose	3.00			5300.00	55.00	Bottom Packers & Anchor
Total Tool Length:	**85.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc

PO Box 47
Great Bend, KS 67530

ATTN: Brad Rine

26-28s-26w Ford,KS

David #1

Job Ticket: 66794 **DST#: 5**

Test Start: 2021.01.22 @ 00:58:19

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:	43.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.79 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4500.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

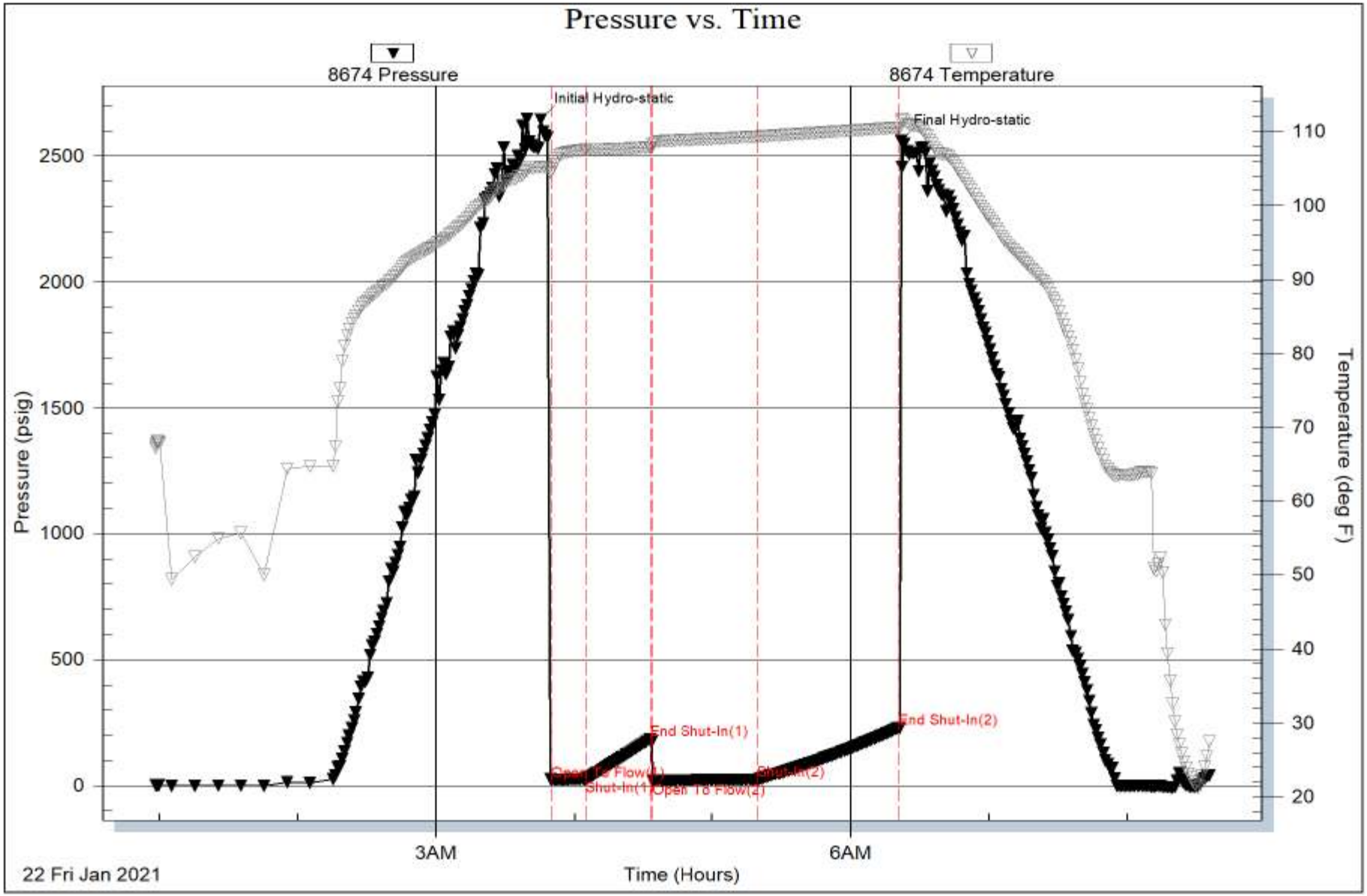
Recovery Table

Length ft	Description	Volume bbl
15.00	w cm 2%w 98%m	0.210
0.00	111' GIP	0.000

Total Length: 15.00 ft Total Volume: 0.210 bbl

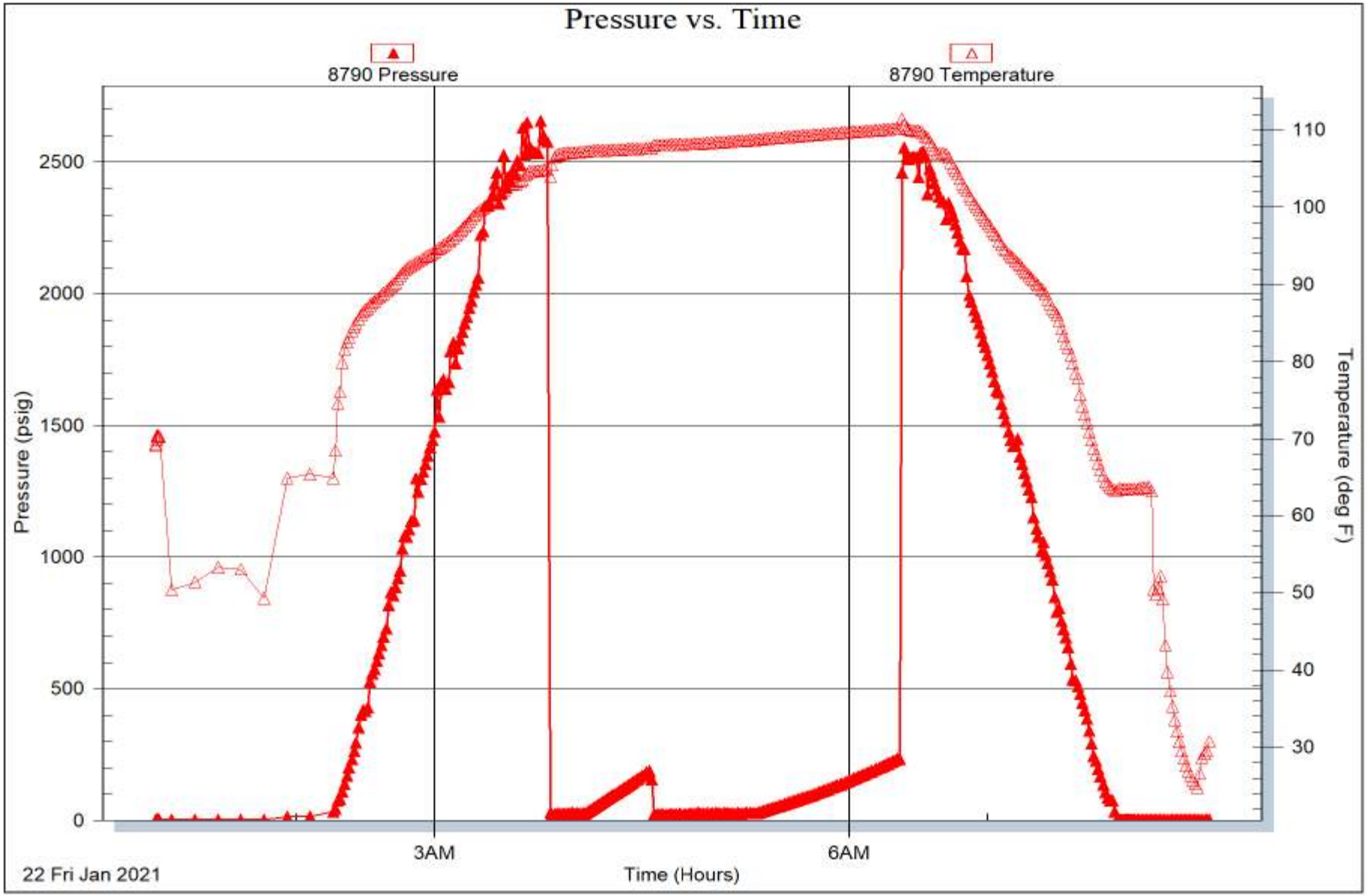
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8674 **Outside** Carmen Schmitt, Inc David #1 DST Test Number: 5



Trilobite Testing, Inc Ref. No: 66794 Printed: 2021.01.25 @ 14:23:51

Serial #: 8790 **Inside** Carmen Schmitt, Inc David #1 DST Test Number: 5



Trilobite Testing, Inc Ref. No: 66794 Printed: 2021.01.25 @ 14:23:51

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 66790

Well Name & No. David #1 Test No. 1 Date 1-18-21

Company Carmen Schmitt, INC Elevation 2690 KB 2680 GL

Address P.O. Box 47 Great Bend, KS 67530

Co. Rep / Geo. Brad Rine Rig Southwind #1

Location: Sec. 26 Twp 28S Rge. 26W Co. Ford State KS

Interval Tested 5017 5058 Zone Tested Pawnee

Anchor Length 41 Drill Pipe Run 5003 Mud Wt. 9.4

Top Packer Depth 5012 Drill Collars Run — Vis 55

Bottom Packer Depth 5017 Wt. Pipe Run — WL 8.0

Total Depth 5058 Chlorides 4000 ppm System LCM 2

Blow Description bridged out 1252

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 ____ Feet of ____ %gas ____ %oil ____ %water ____ %mud

Rec Total 0 BHT 93 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 628	☑ Test 1150	T-On Location 12:15
(B) First Initial Flow 609	☑ Jars 250	T-Started 14:03
(C) First Final Flow	☑ Safety Joint 75	T-Open
(D) Initial Shut-In	☑ Circ Sub N/C	T-Pulled
(E) Second Initial Flow	☐ Hourly Standby	T-Out 16:45
(F) Second Final Flow	☑ Mileage 220 - 168	Comments out of town
(G) Final Shut-In	☐ Sampler	
(H) Final Hydrostatic 607	☐ Straddle	☑ EM Tool 350
	☐ Shale Packer	☐ Ruined Shale Packer
Initial Open	☐ Extra Packer	☐ Ruined Packer
Initial Shut-In	☐ Extra Recorder	☐ Extra Copies
Final Flow	☐ Day Standby	Sub Total 0
Final Shut-In	☐ Accessibility	Total 1643
	Sub Total 1643	MP/DST Disc't

Approved By ____ Our Representative ____

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

4/10

Test Ticket

NO. 66791

Well Name & No. David #1 Test No. 2 Date 1-18-21

Company Carmen Schmitt, Inc Elevation 2690 KB 2680 GL

Address

Co. Rep / Geo. Brad Rine Rig Southwind #1

Location: Sec. 26 Twp 28S Rge. 26W Co. Ford State KS

Interval Tested 5017 5058 Zone Tested Pawnee

Anchor Length 41 Drill Pipe Run 5003 Mud Wt. 9.4

Top Packer Depth 5012 Drill Collars Run — Vis 55

Bottom Packer Depth 5017 Wt. Pipe Run — WL 8.0

Total Depth 5058 Chlorides 4000 ppm System LCM 2

Blow Description IF: 1/4 blow built to 8 3/4.

IS: No return.

FF: BoB in 4 min. 78"

FS: No return.

Rec 126	Feet of gocwm	40 %gas	2 %oil	5 %water	53 %mud
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 126 BHT 112 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2651	☑ Test 1400	T-On Location 22:10
(B) First Initial Flow 44	☑ Jars 250	T-Started 23:12
(C) First Final Flow 51	☑ Safety Joint 75	T-Open 2:08
(D) Initial Shut-In 1494	☑ Circ Sub N/C	T-Pulled 5:23
(E) Second Initial Flow 54	☐ Hourly Standby	T-Out 7:55
(F) Second Final Flow 83	☑ Mileage 220 - 168	Comments Out of town
(G) Final Shut-In 1503	☐ Sampler	
(H) Final Hydrostatic 2507	☐ Straddle	☑ EM Tool
	☐ Shale Packer	☐ Ruined Shale Packer
Initial Open 15	☐ Extra Packer	☐ Ruined Packer
Initial Shut-In 30	☐ Extra Recorder	☐ Extra Copies
Final Flow 60	☐ Day Standby	Sub Total 0
Final Shut-In 90	☐ Accessibility	Total 1893
	Sub Total 1893	MP/DST Disc't

Approved By Brad Rine Our Representative

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

4/10

Test Ticket

NO. 66792

Well Name & No. Druid #1 Test No. 3 Date 1-20-21

Company Carmen Schmitt Inc Elevation 2690 KB 2680 GL

Address

Co. Rep / Geo. Brad Rine Rig Southwind #1

Location: Sec. 26 Twp 28S Rge. 26W Co. Ford State KS

Interval Tested 5155 5245 Zone Tested Morrow

Anchor Length 90 Drill Pipe Run Mud Wt. 9.4

Top Packer Depth 5150 Drill Collars Run — Vis 49

Bottom Packer Depth 5155 Wt. Pipe Run — WL 8.8

Total Depth 5245 Chlorides 4200 ppm System LCM 2

Blow Description 4.4 bridge at 1323

Rec 0 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 Feet of %gas %oil %water %mud

Rec Total 0 BHT 87 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic	☑ Test 1150	T-On Location	6:00
(B) First Initial Flow	☑ Jars 250	T-Started	7:54
(C) First Final Flow	☑ Safety Joint 75	T-Open	
(D) Initial Shut-In	☑ Circ Sub NIC	T-Pulled	
(E) Second Initial Flow	☐ Hourly Standby	T-Out	10:34
(F) Second Final Flow	☑ Mileage 220 - 168	Comments	64 of town
(G) Final Shut-In	☐ Sampler		
(H) Final Hydrostatic	☐ Straddle	☑ EM Tool 350	
	☐ Shale Packer	☐ Ruined Shale Packer	
Initial Open	☐ Extra Packer	☐ Ruined Packer	
Initial Shut-In	☐ Extra Recorder	☐ Extra Copies	
Final Flow	☐ Day Standby	Sub Total	0
Final Shut-In	☐ Accessibility	Total	1643
	Sub Total 1643	MP/DST Disc't	

Approved By Our Representative

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 66793

Well Name & No. David #1 Test No. 4 Date 1-20-21

Company Carmen Schmitt Inc Elevation 2690 KB 2680 GL

Address

Co. Rep / Geo. Brad Rine Rig Southwind #1

Location: Sec. 26 Twp 28S Rge. 26W Co. Ford State KS

Interval Tested 5155 5245 Zone Tested Morrow

Anchor Length 90 Drill Pipe Run 5131 Mud Wt. 9.4

Top Packer Depth 5150 Drill Collars Run — Vis 68

Bottom Packer Depth 5155 Wt. Pipe Run — WL 7.2

Total Depth 5245 Chlorides 4000 ppm System LCM 3

Blow Description IF: 1/4 blow built to 3 3/4.
ISI: No return.
FF: 5" blow BoB in 32 min. 12"
FSI: No return.

Rec 20	Feet of mud	%gas	%oil	%water 100	%mud
Rec	Feet of 106 GIP	%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 26 BHT 110 Gravity API RW @ °F Chlorides ppm

(A) Initial Hydrostatic 2756	☑ Test 1400	T-On Location 16:30	
(B) First Initial Flow 24	☑ Jars 250	T-Started 17:12	
(C) First Final Flow 27	☑ Safety Joint 75	T-Open 19:33	
(D) Initial Shut-In 220	☑ Circ Sub N/C	T-Pulled 22:18	
(E) Second Initial Flow 23	☐ Hourly Standby	T-Out 1:15	
(F) Second Final Flow 25	☑ Mileage 220 – 168	Comments Out of town	
(G) Final Shut-In 214	☐ Sampler		
(H) Final Hydrostatic 2490	☐ Straddle	☑ EM Tool 350	
	☐ Shale Packer	☐ Ruined Shale Packer	
Initial Open 15	☐ Extra Packer	☑ Ruined Packer 320	
Initial Shut-In 30	☐ Extra Recorder	☐ Extra Copies	
Final Flow 60	☐ Day Standby	Sub Total 320	
Final Shut-In 60	☐ Accessibility	Total 2213	
	Sub Total 1893	MP/DST Disc't	

Approved By Brad Rine Our Representative

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

4/10

Test Ticket

NO. 66794

Well Name & No. David #1 Test No. 5 Date 1-21-11

Company Carmen Schmitt Elevation 2690 KB 2680 GL

Address

Co. Rep / Geo. Brad Rine Rig Southwind #1

Location: Sec. 26 Twp 28S Rge. 26W Co. Ford State KS

Interval Tested 5245 5300 Zone Tested Miss

Anchor Length 55 Drill Pipe Run 5246 Mud Wt. 9.1

Top Packer Depth 5240 Drill Collars Run — Vis 43

Bottom Packer Depth 5245 Wt. Pipe Run — WL 8.8

Total Depth 5300 Chlorides 4500 ppm System LCM 2

Blow Description IF: 1/4 blow built to 3½.
IS: No return.
FF: 2" blow built to 4.
FS: No return.

Rec 15	Feet of wcm	%gas	%oil 2	%water 98	%mud
Rec	Feet of 111 GIP	%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 15 BHT 110 Gravity — API RW — @ — °F Chlorides 12,000 Mud Mfn ppm

(A) Initial Hydrostatic 2645	☑ Test 1400	T-On Location 23:00
(B) First Initial Flow 20	☑ Jars 250	T-Started 00:58
(C) First Final Flow 25	☑ Safety Joint 75	T-Open 3:48
(D) Initial Shut-In 185	☑ Circ Sub N/C	T-Pulled 6:18
(E) Second Initial Flow 17	☐ Hourly Standby	T-Out 8:35
(F) Second Final Flow 24	☑ Mileage 210 x 2 336	Comments out of town
(G) Final Shut-In 229	☐ Sampler	
(H) Final Hydrostatic 2561	☐ Straddle	☑ EM Tool 350
	☐ Shale Packer	☐ Ruined Shale Packer
Initial Open 15	☐ Extra Packer	☐ Ruined Packer
Initial Shut-In 30	☐ Extra Recorder	☐ Extra Copies
Final Flow 45	☐ Day Standby	Sub Total 0
Final Shut-In 60	☐ Accessibility	Total 2061
	Sub Total 2061	MP/DST Disc't

Approved By Brad Rine Our Representative

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

Well Name:	**David #1 - Carmen Schmitt, Inc.**		
API:	**15-057-21048-00-00**		
Location:	**SE-NW-NW-NW, Section 26-28S-26W**		
License Number:	**KCC #6569**	**Region:**	**Ford County, Ks**
Spud Date:	**January 09, 2021**	**Drilling Completed:**	**January 23, 2021**
Surface Coordinates:	**610' FNL & 610' FWL, of Section**	**Results:**	**D & A**
Bottom Hole Coordinates:	**Vertical Wellbore**	**Field:**	**Wildcat**
Ground Elevation (ft):	**2680 Ft.**	**K.B. Elevation (ft):**	**2690 Ft.**
Logged Interval (ft):	**4100 Ft. To: 5375 Ft.**	**Total Depth (ft):**	**RTD 5375 Ft. LTD 5378 Ft.**
Formation:	**Mississippian**		
Type of Drilling Fluid:	**Chemical**		

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

Operator

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

Geologist

Name: M. Bradford Rine
Company: Consulting Geologist, Kansas Lic. #204, Wyo #189, AAPG Cert. #2647
Address: 100 South Main, Suite #320A
Wichita, Kansas 67202

Remarks

Based on sample observations, drill stem test results, and electric log evaluation, it was the decision of the Operator, to plug and abandon the "David #1", on January 23, 2021.

Respectfully,
M. Bradford Rine, geologist

Drilling Information

Rig: Southwind #1
Pump: Emsco D-375 6 x 14
Drawworks: TSM 6000
Collars: 484' 2-1/4" x 6-1/4"
Drillpipe: 4-1/2" 16.6# XH
Toolpusher: Frank Rome

Mud: Mudco (Tony Maestas)
Gas Detector: None
Drill Stem Tests: Trilobite (Brandon Turley)
Logs: Midwest (Dan Schmidt)
Water: Irrigation Well/D. Woddziak (Elk Transport)
Company Representatives:
Office: Carmen Schmitt
Field: None

Daily Drilling Status

Date:	Operations/Depth/Comments
01-09-21	Complete MIRT, RU, Spud @ 0'
01-10-21	Drilling at 725'
01-11-21	Waiting on Cement @ 1125'
01-12-21	Drilling @ 1860'
01-13-21	Drilling @ 2625'
01-14-21	Drilling @ 3270'
01-15-21	Drilling @ 3833'
01-16-21	Circulating for Samples @ 4390'
01-17-21	Drilling @ 4805'
01-18-21	Drilling @ 5022'
01-19-21	Trip Out of Hole with DST #2 @ 5058'
01-20-21	Trip Out of Hole for DST #3 @ 5245'
01-21-21	Drilling @ 5260'
01-22-21	Trip Out of Hole with DST 5 @ 5300'
01-23-21	Prepare to Plug and abandon @ 5375'
01-24-21	Completed Plugging at 3:15 PM, 01/23/21

	Results:	D & A		(Well A)	D & A	
	Carmen Schmitt, Inc.			Jabon Investments		
	David #1			Foulks #1-25		
	610' FWL & 610' FNL			1920' FNL & 2460' FWL		
	Sec. 26-28S-26W			Sec. 25-28S-26W		
	KB	2690		KB	2662	Well A
Formations	Sample	E-Log	Datum	E-Log	Datum	Comp
Blaine Anhydrite	NC	1183	1507	1154	1508	-1
Stone Corral	1683	1686	1004	1650	1012	-8
Stotler	NC	3687	-997	3684	-1022	25
Heebner Sh.	4356	4361	-1671	4358	-1696	25
Toronto	4380	4380	-1690	4382	-1720	30
Douglas Ls.	4432	4434	-1744	4432	-1770	26
Brown Lime	4464	4469	-1779	4468	-1806	27
Lansing	4479	4480	-1790	4478	-1816	26
Muncie Creek Sh.	4672	4675	-1985	4676	-2014	29
Stark Sh.	4788	4789	-2099	4789	-2127	28
Swope Ls.	4792	4793	-2103	4801	-2139	36
Hushpuckney Sh.	4830	4830	-2140	4834	-2172	32
B/Kansas City	4927	4930	-2240	4927	-2265	25
Marmaton	4954	4956	-2266	4946	-2284	18
Altamont	4963	4964	-2274	4957	-2295	21
Pawnee	5030	5033	-2343	5030	-2368	25
Ft. Scott	5078	5086	-2396	5079	-2417	21
Cherokee Sh.	5113	5116	-2426	5109	-2447	21
Atoka	5194	5196	-2506	5187	-2525	19
Morrow Sh.	5205	5205	-2515	5199	-2537	22
Morrow Sd.	5227	5231	-2541	5204	-2542	1
Mississippi	5238	5238	-2548	5213	-2551	3
Miss. "A"	5238	5238	-2548	5213	-2551	3
Miss "B"	NC	5252	-2562	5232	-2570	8
Total Depth	5375	5378	-2688	5416	-2754	66

Casing Record, Bit Record, Deviation Surveys

CASING:

Conductor: None

Surface: Ran 27 jts, new 8-5/8" 24# casing, tally @ 1113.58 ft, set @ 1125.58 ft. (Copeland) Cement with Total 525 sx, as follows: 300 sx 65/35 poz, 3%CC, 6% gel, and 225 sx 60/40 poz, 3%CC, 2% gel. Cement did circulate. Plug down at 10:45 PM, January 10, 2021.

Production: P&A. Plugged well with 170 sacks of 60/40 Poz, 4% gel; 1st plug set @ 1800' w/ 50 sacks, 2nd plug @ 1170' w/ 50 sacks, 3rd plug @ 60' w/ 20 sacks, RH w/ 30 sacks, MH w/ 20 sacks, (Cemented by Copeland), completed @ 3:15pm on 1/23/21.

BITS:

No.	Size	Make	Model	Depth In	Depth Out	Hours
1	12-1/4	JZ	PDC	0	1125	15.75
2	7-7/8	JZ	PDC	1125	1953	19.50
3	7-7/8	JZ	HA20TL	1953	5245	128.75
4	7-7/8	JZ	HA20TL	5245	5375	10.50

DEVIATION SURVEYS:

Deviation:	Depth:	Deviation:	Depth:
0.50*	1125'	0.875*	5245'
0.50*	5058'	1.50*	5375'

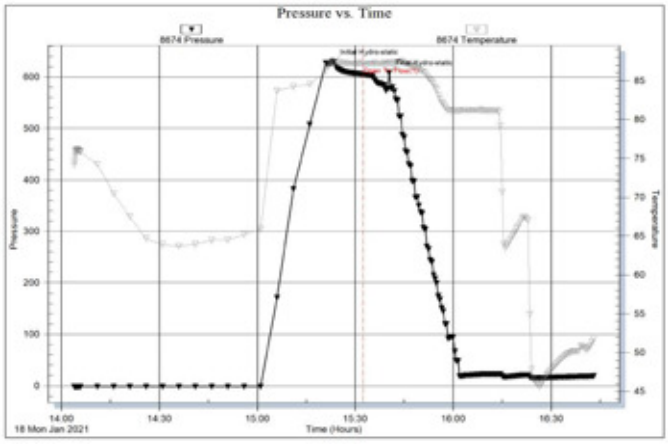
PIPE STRAPS:

Difference:	Depth:
*Counted Drill Pipe on Wiper Trip. Matches Board @ 4896')	
0.85' short	5245'

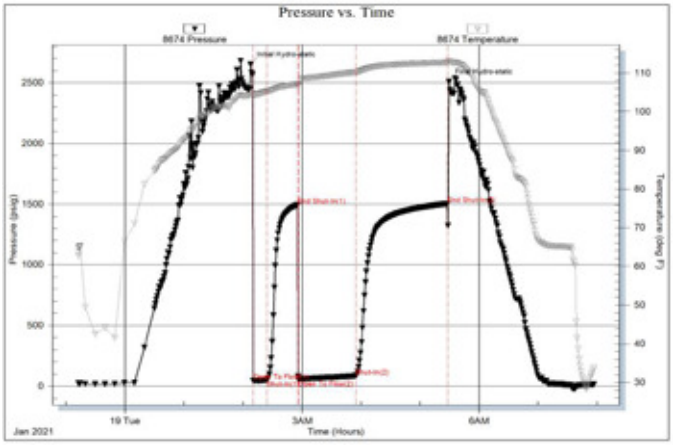
Mudup:

Displace/Mudup @ 3530'

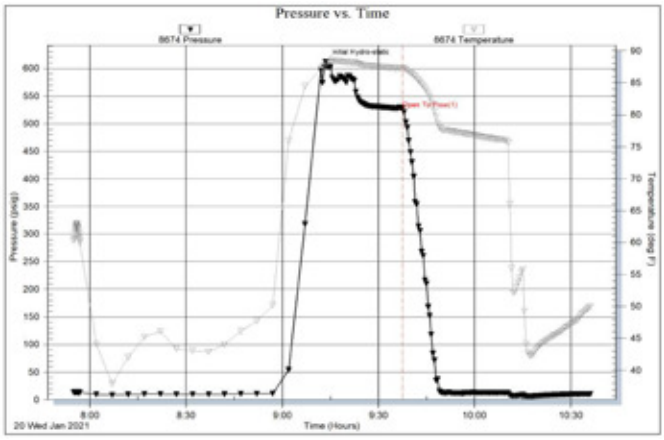
DST #1: 5017-5058 (Pawnee)
MIsrun! hit bridge/ledge? near 1252 ft.
could not get through.
Pull test tool. Subsequent measurement with bit located bridge at 1307 ft



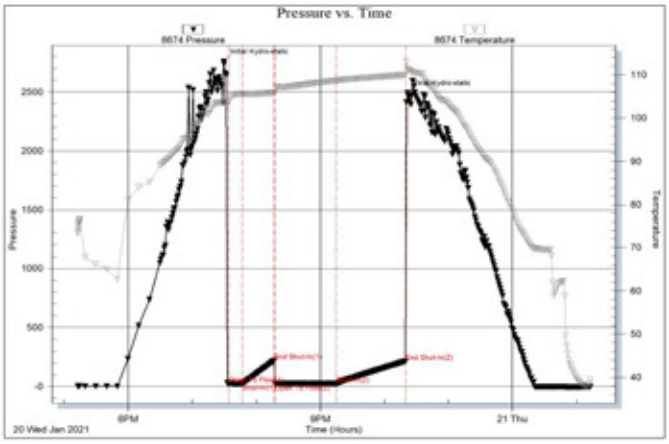
DST #2: 5017-5058 (Pawnee)
Times: 15-30-60-90
Initial Open: Mod Blow, built to 8.75"
Final Open: Stg Blow, b.o.b. 4 min, max 78" i.b.
Rec: 1134' gas in pipe, 126' Total Fluid
126' GOWCM: 40%g 02%o 05%w 53%m
IHP: 2651 FHP: 2507
IFP: 44-51 FFP: 54-83
ISIP: 1494 FSIP: 1503
BHT: 112*F



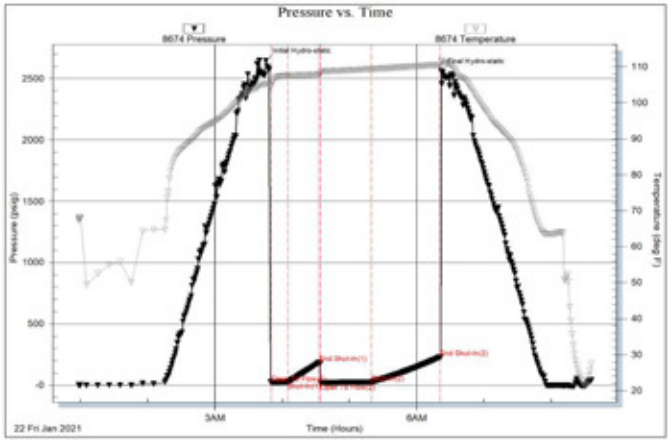
DST #3: 5155-5245 (Morrow)
Misrun! Hit bridge near 1325 ft.
Could not get through.
Pull test tool.
Go back to bottom with bit to condition hole!



DST #4: 5155-5245 (Morrow)
Times: 15-30-60-60
Initial Open: Wk Blow, built to 3.75" i.b.
Final Open: Stg Blow, b.o.b. 32 min, max blow 12"
Rec: 106' gas in pipe, 20' mud
IHP: 2756 FHP: 2490
IFP: 24-27 FFP: 23-25
ISIP: 220 FSIP: 214
BHT: 110*F



DST #5: 5245-5300 (Mississippi)
Times: 15-30-45-60
Initial Open: Wk Blow, built to 3.5"i.b.
Final Open: Wk Blow, built to 4"
Rec: 15' SWCM: 02%w 98%w (Chl/Wtr 12,000 ppm)
IHP: 2645 FHP: 2561
IFP: 20-25 FFP: 17-24
ISIP: 185 FSIP 229
BHT: 110*F



Rock Types

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

Accessories

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

STRINGER

- Anhy
- Shale
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg

TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

Other Symbols

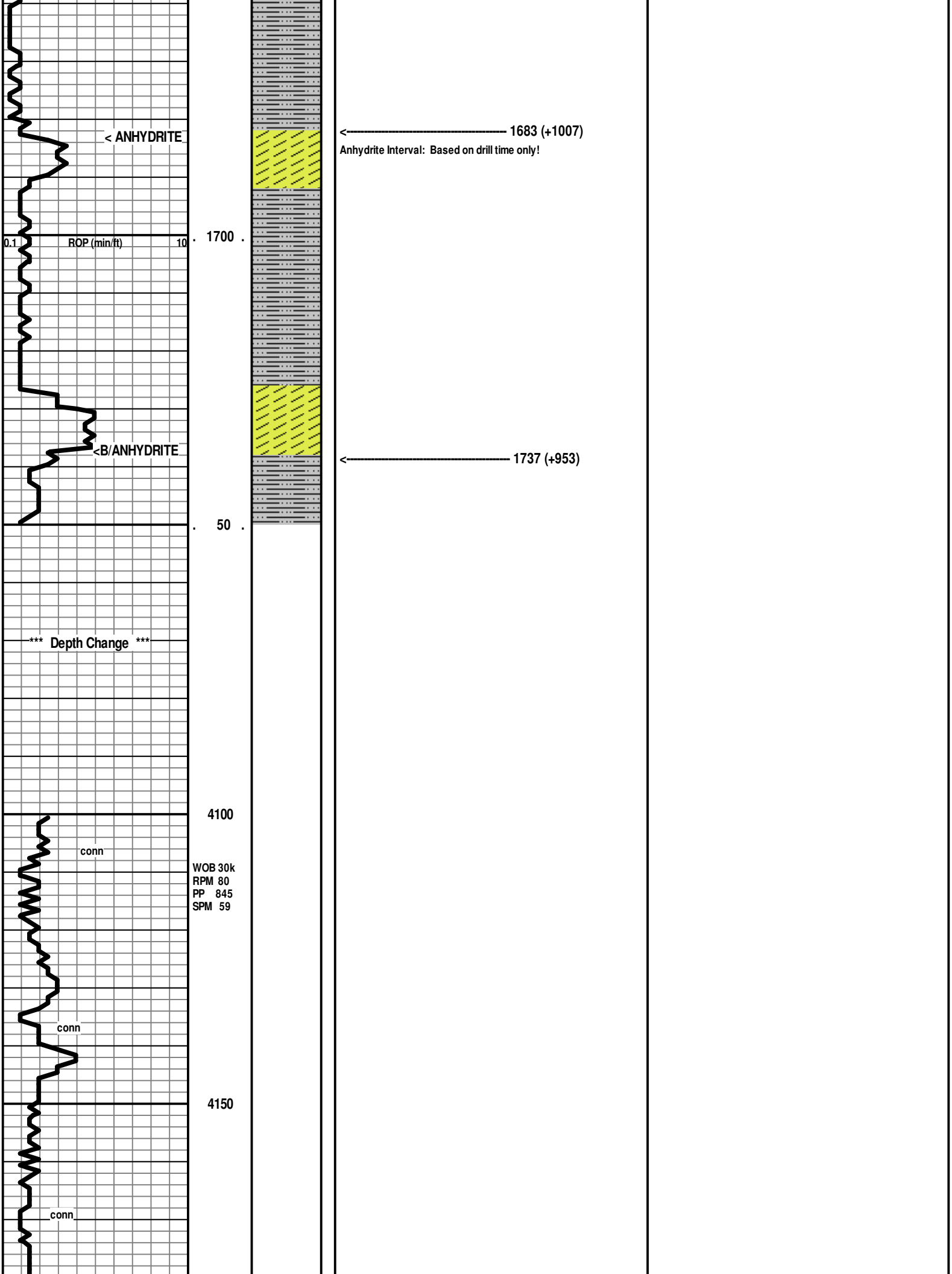
OIL SHOW

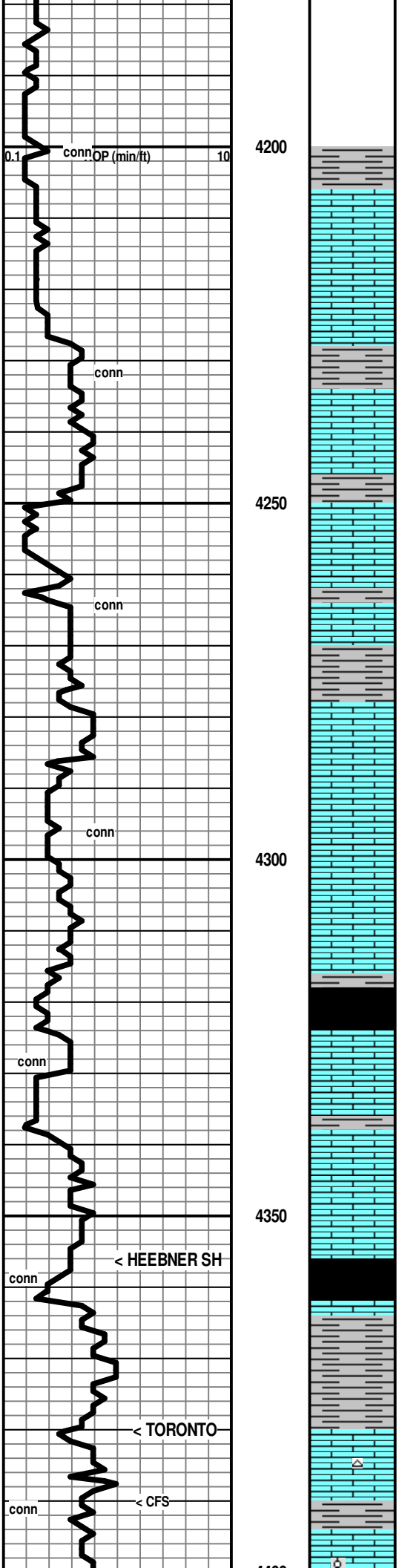
- Oil & gas show
- Gas show
- Even
- Spotted
- Trace or questionable
- Dead
- Gas

INTERVAL

- Core
- Dst

ROP (min/ft)	MD	Lithology	Shows	Geological Descriptions	Remarks
0.1 ROP (min/ft) 10	. 1600 .				
	. 50 .				


< ANHYDRITE
<---------- 1683 (+1007)
Anhydrite Interval: Based on drill time only!
0.1
ROP (min/ft)
10
1700
<B/ANHYDRITE
<---------- 1737 (+953)
50
*** Depth Change ***
4100
conn
WOB 30k
RPM 80
PP 845
SPM 59
conn
4150
conn



4200

Sh gy

Ls wh, mushy, chalky (washes white)

Sh gy

Ls gy, fn xln, dns, foss in pt

Sh gy

4250

Ls cr-tan-gy, fn xln, pr-fr xln por in pt, foss

Sh gy-grnish-grn

Ls cr-gy fn xln, dns-pr xln por, foss

4300

Ls wh-cr, fn xln, chalky & soft in pt, pr-fr xln por in pt, foss in pt

Sh gy-dk gy-grnish gy-black, sli carb in pt (poorly repres in spls)

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

4350

<---------- 4356 (-1666)

Sh black, carb

Sh gy-grnish gy

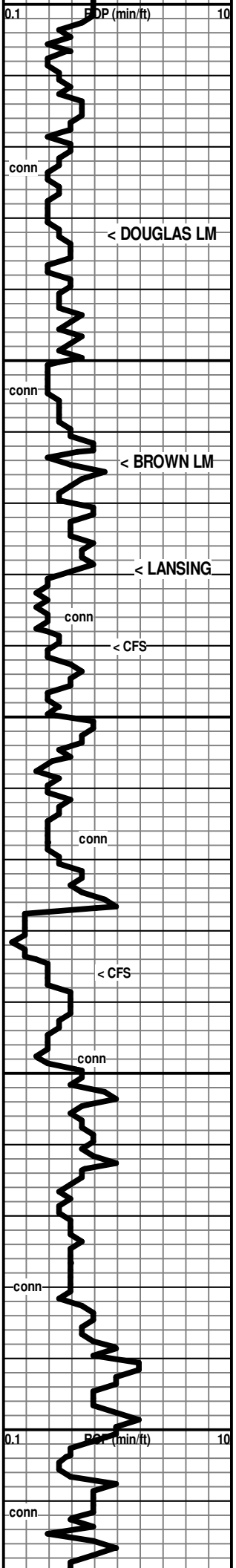
<----------4380 (-1690)

Ls wh-cr, fn xln, chalky in pt, pr xln por in pt, foss, trace of fresh chert

Sh pl grn

7:00 AM, January 16, 2021

Ls wh, fn xln, abund pool pcs (well cem with scatt vis intercol por)



4400

Ls wh, fn xln, abund oolpcs (well cemn with scatt vis intercol por)

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

Sh gy-grnish gy; Ls wh-cr-tan, fn xln, dns to pr-fr xln por, foss, ool

Sh gy-grnish gy

<---------- 4432 (-1742)

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

Ls wh-cr-tan, fn xln, chalky in pt, mostly dns, some pr xln por, silty text in pt, foss in pt

4450

Ls wh-cr-tan, fn xln, chalky in pt, mostly dns, some pr xln por, silty text in pt, scatt transl calcite patches, foss in pt, low % shales

Mud Check, drlg @ 4453':

Vis	Wt	WL	PV	YP
53	9.3	7.2	17	17
Chl	Hd	pH	LCM	Sol
3600	20	10.0	2	7.0

<---------- 4464 (-1774)

Ls tan, vfn xln, dns

Sh gy-grn, subsilty-calc text in pt

<---------- 4479 (-1789)

A

Ls wh-cr, fn xln, pr vis xln por, scatt vugs, chalky in pt, foss, micro-ool in pt

Ls wh-cr, fn xln, pr-frxln por in pt, scatt vugs, foss

4500

Sh gy

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

Sh gy-dk gy-grnish, tr of pyrite

B

Ls tan, fn xln, packed small-md ool (weathered in pt) oom in pt

4550

Abund Shales gy-dk gy-black; Abund Ls cr-tan-gy-dk gy, vfn-fn xln, dns, foss

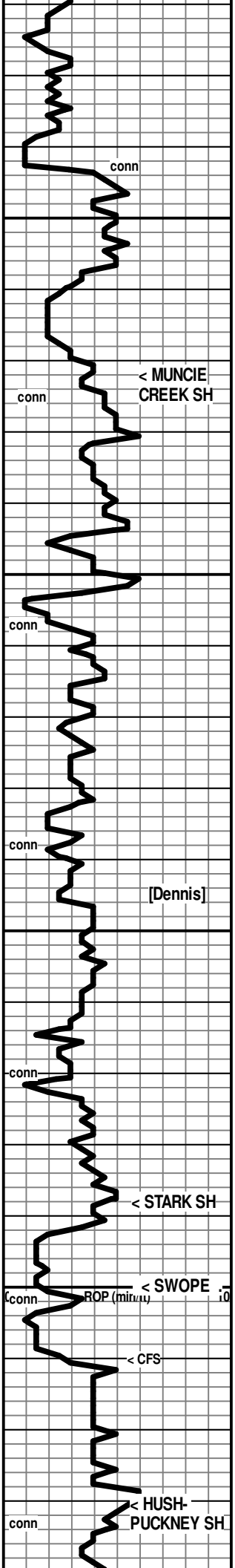
Ls wh-cr, fn xln, dns to pr xln por, foss

Ls cr,fn xln, vfn-fn xln, dns, foss in pt,tr of fresh chert; Shales gy-dk gy

4600

Sh gy

Ls cr-tan-gy, vfn-fn xln, dns in greater pt, pr vis xln por in pt, ,



some subchalky, foss

Ls wh-cr, fn xln, abund chalky & soft, some pr vis xln por, foss in pt, some shale

Ls cr, vfn xln, dns, sli foss, tr of gy, fresh chert, opaq

Sh gy

Ls wh-cr-tan, fn xln, dns in pt, softer & chalky in pt, foss, tr of pl gy fresh chert

<---------- 4672 (-1982)

Sh black, carb

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

Sh dk gy-black,carb in pt

Ls wh-cr, fn xln, pr xln por, ool in pt

Ls wh-cr with some tan, vfn-fn xln, chalky & soft in pt, dns in greater pt, some pr xln por, foss in pt, tr of white, fresh chert, foss, some ool pcs

Sh gy-dk gy

Ls wh-cr, fn xln, chalky to pr xln por, foss

Ls wh-cr, vfn-fn xln, mostly dns, some softer & subchalky, foss in Rr pt

Ls cr-tan, vfn xln, dns

4810' spl: Mostly dns ls; v low % shale, gy-dk gy

<---------- 4788 (-2098)

<---------- 4792 (-2102)

4810' spl-20 min cfs: Some black, carb shale; Mostly wh-cr-tan Ls, chalky & soft, with dns, vfn xln ls, sli foss

Ls wh-cr, fn xln, abund soft & chalky, abund dns & firm, foss in pt, ool in pt with Rr oom, Chert: cr-gy, fresh, subtransl, foss in pt

7:00 AM, January 17, 2021

Ls cr-tan, vfn-fn xln, dns, cherty

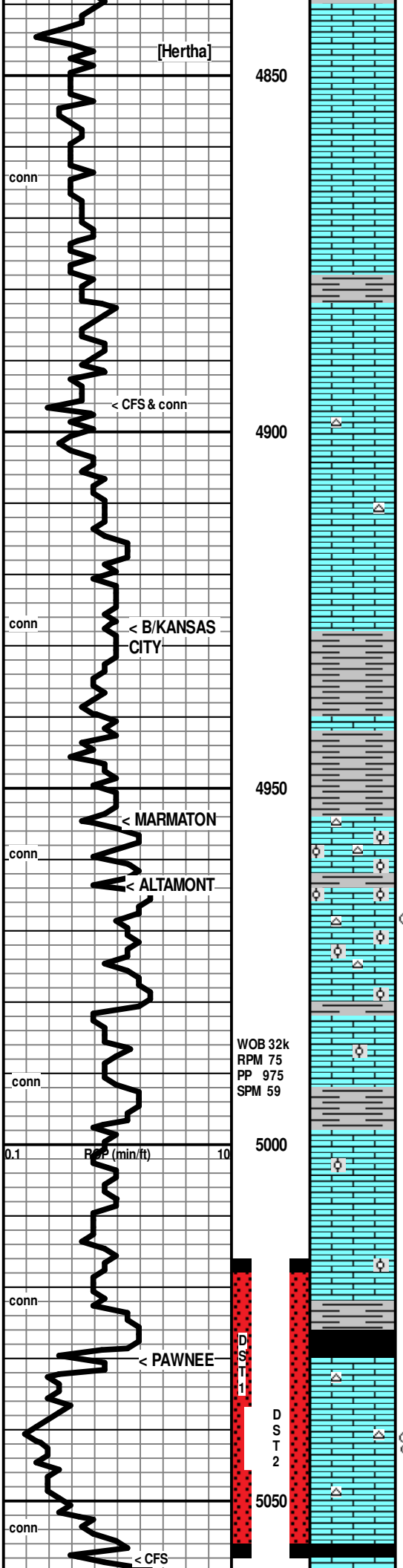
Ls wh-cr-tan, vfn-fn xln, mostly dns & firm, some soft & chalky

<---------- 4830 (-2140)

Sh black-dk gy, carb in pt

Mud Check, drlg @ 4829':

Vis	Wt	WL	PV	YP
50	9.4	8.0	16	15
Chl	Hd	pH	LCM	Sol
3800	40	10.0	1	7.5



Ls cr-tan, vfn-fn xln, dns

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

Sh grnish gy

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

< Wiper Trip

* 4896 ft: Wiper Run, Top of collars to surface, to condition hole and count drill pipe jts! (1rst Row + pulled very tight!) Hit Bridge/Ledge at 1252' going back down with bit, kelly'd up to get through!

Ls wh-cr-gy, fn xln, chllky text in pt, dns in pt, grainy text in pt with speckled dk shale/foss, chert, fresh, tan, opaq-subtransl

<---------- 4927 (-2237)

Sh gy-dk gy-grnish gy, with scatt wh-cr-tan limestone, dns

<---------- 4954 (-2264)

Ls cr-tan-pl gy, vfn-fn dns, foss in pt, ool in pt (cem), cherty

<---------- 4963 (-2273)

Ls wh-cr-tan, vfn-fn xln, foss in pt, mostly dns & hard, some softer & chalky, chert: fresh, tan, subtransl, foss' ool in pt (well-cem)

[No Odor, Rr widely scatt specks of dull fluor in chalky pcs (mineral fluor?), No Stn, NSO/NSG]

DST #1: 5017-5058 (Pawnee)
MIsrun! hit bridge/ledge? near 1252 ft. could not get through. Pull test tool. Subsequent measurement with bit located bridge at 1307 ft!

Ls wh-cr-tan, fn-vfn xln, mostly dns, some chalky, foss in pt, Rr ool pcs (well cem)

* After DST #1, went back in with bit, worked primary bridge at 1307 ft, and a minor bridge at 1316 ft! Went to bottom with bit to condition hole. No fill at bottom of hole! Rig dropped a slip die in hole!

Ls wh-cr-tan, fn-vfn xln, mostly dns, scatt pr xln por, some chalky, foss in pt, Rr ool pcs (well cem)

7:00 AM, January 18, 2021

Sh gy-dk gy-black, carb in pt

<---------- 5030 (-2340)

Ls wh-cr-tan, fn-vfn xln, mostly dns, scatt pr xln por, some chalky, widely scatt sm calcite patches, foss in pt, Chert: fresh, wh-gy, foss, subtransl-subopaq

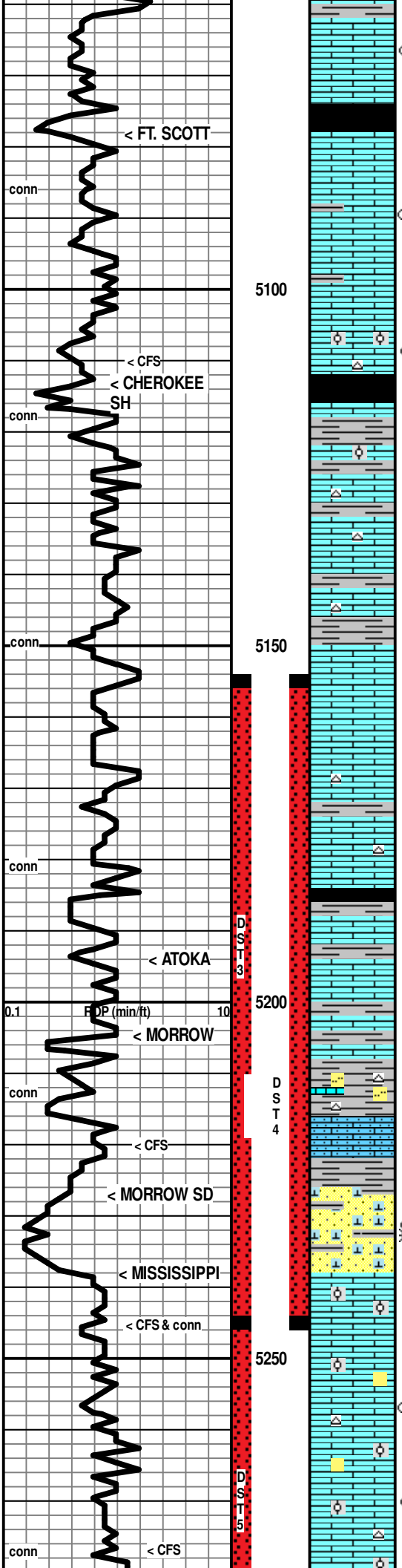
Show Descr. ---------->

[5032-5052: No Odor, low % pcs with specks & patches of brt fluor, Tr-sli shows of brt micro-drops of oil (on crush) in fluor pcs. Rr colorless oil micro-drops vis. under white light]

Ls wh-cr-tan, fn-vfn xln, mostly dns, scatt pr xln por, some chalky, widely scatt sm calcite patches, foss in pt, Chert: fresh, wh-gy-tan, foss, transl-subtransl-subopaq

Sh dk gy-black, carb in pt

7:00 AM, January 19, 2021



Ls cr-tan, vfn-fn xln, dns & hard to softer and chalky to subchalky, foss

[No Odor, V Rr pcs with scant specks of dull fluor, NSO, NSG, from above?]

Sh black, carb

<---------- 5078 (-2388)

Ls wh-cr-tan, vfn-fn xln, dns & hard to softer and chalky to subchalky, foss to abund foss

[No Odor, a few pcs with scant scattered specks of dull fluor, NSO, NSG, No Stn]

Ls cr-tan-gy, vfn-fn xln, mix of dns & hard to softer & subchalky to chalky, Rr patches of pr xln por, foss

30% Shale: gy-grnish-black; 70% Ls wh-cr-tan-gy, fn-vfn xln, dns in pt, pr xln por in pt, subchalky in pt, foss to abund foss, chert: fresh, gy-brn, foss

<---------- 5113 (-2423)

Sh black ,carb, soft to firm (washes dk gy)

[5110 +/-: No Odor, a few pcs with specks of mod fluor, No Stn, NSO, NSG]

40% Shale: gy-grnish-black; 60% Ls wh-cr-tan-gy, fn-vfn xln, dns in pt, pr xln por in pt, subchalky in pt, foss to abund foss, ool in pt, dns (well-cem) chert: fresh, gy-brn, foss

30% Shale: gy-grnish-grn; 70% Ls wh-cr-tan-gy, fn-vfn xln, dns in pt, pr xln por in pt, subchalky in pt, foss to abund foss, ool in Rr pt, dns (well-cem) chert: fresh, gy-brn, foss

95% Ls, wh-cr-tan, vfn-fn xln, dns & hard to softer & chalky, foss; 05% Sh gy-grn

95% Ls, wh-cr-tan, vfn-fn xln, dns & hard to softer & chalky, foss, Chert: fresh, tan, transl; 05% Sh gy-grn

5200' & 5210' spls: 50% Shale gy-grn-black carb in pt,scatt pyritic; 50% Ls wh-cr-tan, vfn-fn xln, dns, foss, some tan fresh chert

<---------- 5194 (-2504)

5220' spl: 85% Ls wh-cr-tan vfn-fn xln, chalky to dns, some vitreous text, foss in pt; 15% Shale gy-grn

<---------- 5205 (-2515)

Sh pl gy-pl grn-gy, silty-subwaxy, scatt foss, some fresh transl tan chert, some Ls wh-cr, fn xln chalky-dns, trace of silty wh chalky/pasty ls, soft

Ls wh-cr-tan, fn xln, chalky to dns, silty-sdy in pt, foss

Sh pl grn-grn, silty in pt

<---------- 5227 (-2537)

Sd whitish-pl grn-grn, vfn grn (75u-100u), gd sort, subang-subrd, mostly in mushy-pastey-soft calc cem, low % cleaner Sd with pr vis intergrnlr por, mod am't of loose vfn grns in tray Show Descr. ---------->

<---------- 5238 (-2548)

5245' 20-min spl: 85% Ls wh-cr, fn xln, dns to pr vis xln por, ool-packed ool (mostly well-cem); 15% Sd as above

Ls wh-cr, fn xln, chalky in pt, pr vis xln por, sdy in pt, ool in pt, (fn-md) some loose ools in tray, some chert: fresh, pinkish-tan, ool in pt

[No Odor, few pcs per tray with mod speckled four with tr of colorless micro-drops on crush vis under black light, In circ spl found a few pcs total with tr of brn micro-drops on crush in white light]

Ls wh-cr, fn xln, chalky in pt, pr vis xln por, sdy in pt, ool in pt, (fn-md) some loose ools in tray, some chert: fresh, pinkish-tan, ool

Mud Check, CFS @ 5058':

Vis	Wt	WL	PV	YP
55	9.4	8.0	17	19
Chl	Hd	pH	LCM	Solids
4000	40	8.0	2	7.5

Mud Check, TIH/Bit after DST2 @ 5058':

Vis	Wt	WL	PV	YP
49	9.4	8.8	16	17
Chl	Hd	pH	LCM	Solids
4200	40	9.0	2	7.5

* Add Premix!

DST #2: 5017-5058 (Pawnee)
Times: 15-30-60-90
Initial Open: Mod Blow, built to 8.75"
Final Open: Stg Blow, b.o.b. 4 min, max 78" i.b.
Rec: 1134' gas in pipe, 126' Total Fluid
126' GOWCM: 40%g 02%o 05%w 53%m
IHP: 2651 FHP: 2507
IFP: 44-51 FFP: 54-83
ISIP: 1494 FSIP: 1503
BHT: 112*F

DST #3: 5155-5245 (Morrow)
Misrun! Hit bridge near 1325 ft. c
Could not get through. Pull test tool. Go back to bottom with bit to condition hole. Hit bridge at 1297' and at 4130 ft.

DST #4: 5155-5245 (Morrow)
Times: 15-30-60-60
Initial Open: Wk Blow, built to 3.75" i.b.
Final Open: Stg Blow, b.o.b. 32 min,
max blow 12"
Rec: 106' gas in pipe, 20' mud
IHP: 2756 FHP: 2490
IFP: 24-27 FFP: 23-25
ISIP: 220 FSIP: 214
BHT: 110*F

[5227-5238: No Odor, No Fluor, few pcs with trace show of gas on crush, NSO]

7:00 AM, January 20, 2021

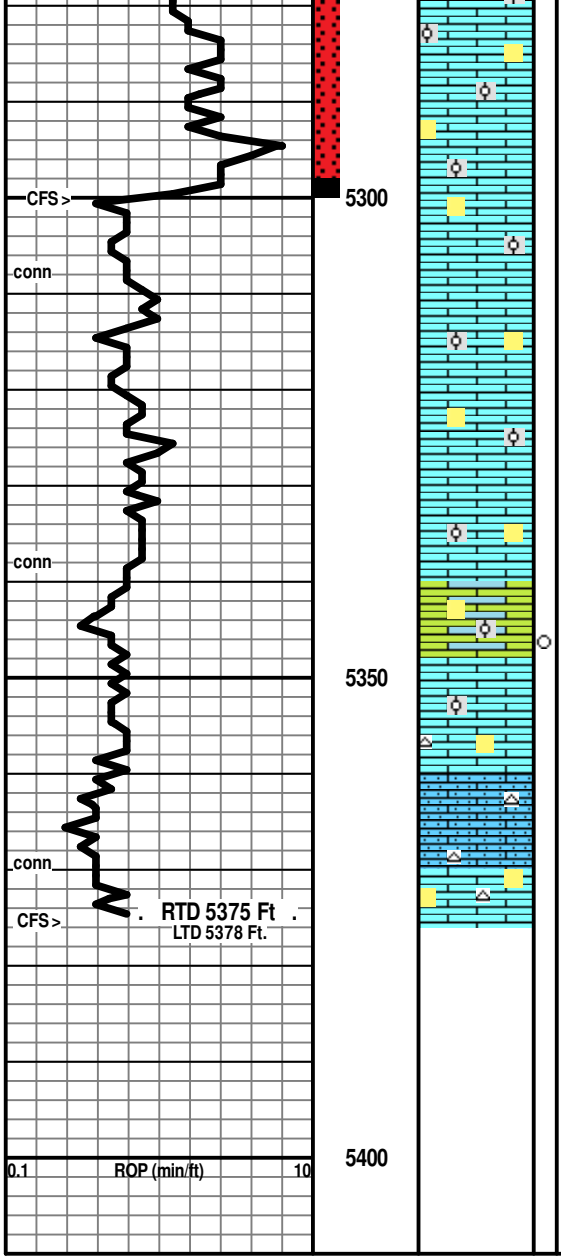
* Pipe Strap @ 5245': 0.85' short!

7:00 AM, January 21, 2021

Mud Check, TIH/Bit after DST3 @ 5245':

Vis	Wt	WL	PV	YP
68	9.4	7.2	18	22
Chl	Hd	pH	LCM	Solids
4000	40	9.0	3	7.4

< 5277': Change out .



in pt, abund well-cem, some interool calcite with pr vis xln por, Scatt glauc specks

Ls wh-cr, fn xln, dns to pr interool por, ool (mostly well cem) pr-fr crush, Sdy in pt, scatt glauc specks

65% Shales gy-dk gy-red, silty in pt; 35% Ls wh-cr, fn xln, pr xln por to dns, sdy in pt, ool in pt (5300 adn below samples should be nealry 100% Ls. abund shale slough occurring)

75% Shales gy-dk gy-red-grn-blk, silty in pt; 25% Ls wh-cr, fn xln, pr xln por to dns, sdy in pt, ool in pt

80% Shales gy-dk gy-red-grn-blk, silty in pt; 20% Ls wh-cr, fn xln, pr xln por to dns, sdy in pt, ool in pt

60% Shales gy-dk gy-red-grn-blk, silty in pt; 20% Ls wh-cr, fn xln, pr xln por to dns, sdy in pt, ool in pt; 20% Ls & Dol ls, wh-cr-tan, fn xln, pr vis xln por to dns, foss in pt, dolo in pt, subsucr, pr vis xln por

[No Odor, few pcs per tray with specks % patches of mod fluor, NSO, NSG]

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

Ls wh-cr-tan, vfn-fn xln, dns in pt, some sdy ls with chalky cem, abund chert: fresh, wh-pl gy-cr, transl-subtr

Ls as above, both cherty & sdy, foss

drilling line!

Mud Check, Work on Rig @ 5277':

Vis	Wt	WL	PV	YP
43	9.1	8.8	12	14
Chl	Hd	pH	LCM	Solids
4500	40	9.0	2	5.3

* Add Premix!

7:00 AM, January 22, 2021

DST #5: 5245-5300 (Mississippi)
Times: 15-30-45-60
Initial Open: Wk Blow, built to 3.5"i.b.
Final Open: Wk Blow, built to 4"
Rec: 15' SWCM: 02%w 98%w
(Chl/Wtr 12,000 ppm)
IHP: 2645 FHP: 2561
IFP: 20-25 FFP: 17-24
ISIP: 185 FSIP 229
BHT: 110*F

Mud Check, TIH after DST5 @ 5300':

Vis	Wt	WL	PV	YP
52	9.2	7.2	16	18
Chl	Hd	pH	LCM	Solids
4500	40	10.0	2	6.0

* Add Premix!

Reached RTD 5375 Ft., at 6:00 PM, January 22, 2021!