KOLAR Document ID: 1603741

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 #:

12/14/2021 Spud Date or Recompletion Date
12/21/2021 Date Reached TD
01/10/2022 Completion Date or Recompletion Date

API No.: 15-053-21378-00-00
Spot Description:
NE - SW - SE - NW Sec. 36 Twp. 16 S. R. 9 ☐ East ☑ West
2045 Feet from ☑ North / ☐ South Line of Section
1850 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: Ellsworth
Lease Name: ROLFS Well #: #2
Field Name:
Producing Formation: NA
Elevation: Ground: 1764 Kelly Bushing: 1774
Total Vertical Depth: 3341 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 249 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: 18500 ppm Fluid volume: 800 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: 02/17/2022
☐ **Confidential Release Date:** 02/17/2024
☑ **Wireline Log Received** ☑ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** Deanna Garrison **Date:** 02/17/2022

Operator Name: Carmen Schmitt, Inc. Lease Name: ROLFS Well #: #2

Sec. 36 Twp. 16 S. R. 9 ☐ East ☑ West County: Ellsworth

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:

Dual Induction
Porosity
Micro

☑ 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
Production	7.875	5.5	14	3334	SMD	355	2%gel
Surface	12.25	8.625	20	249	60/40	200	2%gel,3%cc

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	ROLFS #2
Doc ID	1603741

Tops

Name	Top	Datum
Stone Corral	424	1350
Topeka	2434	-660
Heebner	2691	-917
Toronto	2711	-937
Brown Lm	2786	-1012
Lansing	2810	-1036
BKC	3130	-1356
Conglomerate	3133	-1359
Viola	3211	-1437
Simpson	3242	-1468
Arbuckle	3280	-1506

Form	ACO1 - Well Completion
Operator	Carmen Schmitt, Inc.
Well Name	ROLFS #2
Doc ID	1603741

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Production	7.875	5.5	14	3334	SMD	355	2%gel
Surface	12.25	8.625	20	249	60/40	200	2%gel,3% cc

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:
C60471-IN

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

LEASE: NEW WELL ROLFS #2

DATE	ORDER	SALESMAN	ORDER DATE	PURCHASE ORDER	SPECIAL INSTRUCTIONS
12/15/2021	60471		12/14/2021	NEW WELL ROLFS #2	NET 30

QUANTITY	U/M	ITEM NO./DESCRIPTION	D/C	PRICE	EXTENSION
		NEW WELL			
35.00	MI	MILEAGE CEMENT PUMP TRUCK	0.00	4.00	140.00
1.00	EA	PUMP CHARGE SURFACE	0.00	1,100.00	1,100.00
200.00	SK	60/40 POZ MIX 2% GEL	0.00	12.25	2,450.00
11.00	SK	CALCIUM CHLORIDE	0.00	40.00	440.00
211.00	EA	BULK CHARGE	0.00	1.25	263.75
324.94	MI	BULK TRUCK - TON MILES	0.00	1.10	357.43

7/0/43
14712,0002
BCP Well File
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:	4,751.18
ELSCO Sales Tax:	216.75
Invoice Total:	**4,967.93**

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

COPELAND Acid & Cement

NEW WELL

FIELD ORDER N° C 60471

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

DATE 14-Dec 20 21

IS AUTHORIZED BY: CARMEN SCHMITT
(NAME OF CUSTOMER)

Address _____ City _____ State KS

TO TREAT WELL
AS FOLLOWS Lease ROLFS Well No. 2 Customer Order No. _____

Sec. Twp.
Range _____ County ELLSWORTH State KS

CONDITIONS: As a part of the consideration hereof it is agreed that Copeland Acid is to service or treat at owners risk, the hereinbefore mentioned well and is not to be held liable for any damage that may accrue in connection with said service or treatment. Copeland Acid Service has made no representation, expressed or *implied, and no representations have been relied on, as to what may be the results or effect of the servicing or treating said well. The consideration of said service or* treatment is payable. There will be no discount allowed subsequent to such date. 6% interest will be charged after 60 days. Total charges are subject to correction by our invoicing department in accordance with latest published price schedules.

The undersigned represents himself to be duly authorized to sign this order for well owner or operator.

THIS ORDER MUST BE SIGNED
BEFORE WORK IS COMMENCED _____ By _____
Well Owner or Operator Agent

CODE	QUANTITY	DESCRIPTION	UNIT COST	AMOUNT
20.0002	35	Mileage P.T.	$4.00	$140.00
20.0005	1	Pump Charge Surface	$1,100.00	$1,100.00
20.1002	200	60/40 Poz 2% Gel	$12.25	$2,450.00
20.1012	11	Calcium Chloride per 50 lb.	$40.00	$440.00
20.0011	211	Bulk Charge	$1.25	$263.75
20.0012	324.94	Bulk Truck Miles	$1.10	$357.43
		Process License Fee on Gallons		
		TOTAL BILLING		$4,751.18

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

Copeland Representative GREG C.

Station GB MATT SUCHY
Well Owner, Operator or Agent

Remarks _____

NET 30 DAYS

CORBELLIDD Acid & Cement

TREATMENT REPORT

Acid Stage No. _____

Date 12/14/2021 District GB F.O. No. C60471

Company CARMEN SCHMITT

Well Name & No. ROLFS #2

Location _____ Field _____

County ELLSWORTH 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 360-308T

Personnel GREG CLARENCE

Auxiliary Tools _____

Plugging or Sealing Materials: Type _____

_____ Gals. _____ lb.

Company Representative MATT SUCHY Treater GREG C.

TIME	PRESSURES		Total Fluid Pumped	REMARKS
a.m./p.m.	Tubing	Casing		
5:15				ON LOCATION
				RUN 249' OF 8 5/8" SURFACE PIPE
				PUMP 200 SKS 60/40 2% GEL 3% CC
				DISPLACE WITH 14 BBLS
				CEMENT CIRCULATED TO SURFACE
6:15				PLUG DOWN
6:30				JOB COMPLETE
				THANK YOU!!!

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

Invoice

DATE	INVOICE #
12/22/2021	34098

BILL TO

Carmen Schmitt, Inc.
P. O. Box 47
915 Harrison
Great Bend, KS 67530-0047

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#2	Rolfs	Ellsworth	Southwind	Oil	Development	Top/Btm Longstr...	David E

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	70	Miles	6.00	420.00
579D	Pump Charge - Two-Stage & Top To Bottom LongString	1	Job	2,050.00	2,050.00
290	D-Air	4	Gallon(s)	42.00	168.00T
281	Mud Flush	500	Gallon(s)	1.50	750.00T
221	Liquid KCL (Clayfix)	2	Gallon(s)	25.00	50.00T
402-5	5 1/2" Centralizer	10	Each	75.00	750.00T
403-5	5 1/2" Cement Basket	3	Each	275.00	825.00T
406-5	5 1/2" Latch Down Plug & Baffle	1	Each	250.00	250.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill	1	Each	325.00	325.00T
330	Swift Multi-Density Standard (MIDCON II)	235	Sacks	18.00	4,230.00T
325	Standard Cement	150	Sacks	14.50	2,175.00T
284	Calseal	7	Sack(s)	40.00	280.00T
283	Salt	800	Lb(s)	0.25	200.00T
292	Halad 322	100	Lb(s)	8.50	850.00T
276	Flocele	100	Lb(s)	3.00	300.00T
581D	Service Charge Cement	385	Sacks	2.00	770.00
583D	Drayage	1,313	Ton Miles	1.00	1,313.00
	Subtotal				15,706.00
	Sales Tax Ellsworth County			7.50%	836.48

710/43
14717.0002
Well Site
Cement Long String

We Appreciate Your Business!

Total $16,542.48

SWIFT Services, Inc.

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

TICKET 34098

PAGE 1 OF

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY	DATE	OWNER
1. Hays Ks	#2	Rolfs	Ellsworth	Ks		12/22/21	
2. Ness City	TICKET TYPE ☐ SERVICE ☐ SALES — CONTRACTOR: Southwind	RIG NAME/NO.	SHIPPED VIA: CT	DELIVERED TO: Location		ORDER NO.	
3.	WELL TYPE: oil	WELL CATEGORY: Development	JOB PURPOSE: TOP TO Btm Long String	WELL PERMIT NO.		WELL LOCATION	
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC	ACCT	DF	DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
575		1			MILEAGE TRK # 111	70	Mi			6 00	420 00
579		1			PUMP CHARGE - TOP TO BOTTOM	1	EA			2050 00	2050 00
290		1			D-AIR	4	GAL			42 00	168 00
281		1			MUDFLUSH	500	GAL			1 50	750 00
221		1			LIQUID KCL	2	GAL			25 00	50 00
402		1			CENTRALIZER	10	EA	5½		75 00	750 00
403		1			CEMENT BASKET	3	EA			275 00	825 00
406		1			LATCH DOWN PLUG & BAFFLE	1	EA			250 00	250 00
407		1			INSERT FLOAT SHOE W/ AUTO FILL	1	EA			325 00	325 00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.

X

DATE SIGNED | TIME SIGNED ☐ A.M. ☐ P.M.

REMIT PAYMENT TO:

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

SURVEY	AGREE	UNDECIDED	DISAGREE
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?			
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			

ARE YOU SATISFIED WITH OUR SERVICE? ☐ YES ☐ NO
☐ CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL P. 1	5588 00
P. 2	~~10818 50~~ 10118 50
TOTAL	~~15406 50~~ 15706 00
TAX Ellsworth	836 48
TOTAL	16542 48

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

SWIFT OPERATOR: David Edgerton | APPROVAL

Thank You!

SWIFT Services, Inc.

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

TICKET CONTINUATION

TICKET No. 34098

CUSTOMER: Carmen Schmidt | WELL: Rolfs # 2 | DATE: 12/22/21 | PAGE | OF

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC	ACCT	DF	TIME	DESCRIPTION	QTY	U/M	QTY	U/M	UNIT PRICE	AMOUNT
330						Swift Multi Density	235	sx			~~14~~ 18 00	~~4230~~ 4230 00
325						Standard Cement	150	sx			14 ~~50~~ 18 00	~~2700~~ 2700 00
284						Calseal	7	5x			40 00	280 00
283						Salt	800	lbs			25	200 00
292						Halad - 322	100	lbs			8 50	850 00
276						Flocele	100	lbs			3 00	300 00
						SERVICE CHARGE Cement	CUBIC FEET 385 sx				2 50	770 00
						MILEAGE CHARGE TOTAL WEIGHT 37515 LOADED ~~MILES~~ 70	TON MILES 1313				1 00	1313 00

CONTINUATION TOTAL ~~9820~~ 9820 50

10818.00

JOB LOG

SWIFT Services, Inc.

DATE 12/22/21 | PAGE NO.

CUSTOMER: Carmen Smith | WELL NO.: # 2 | LEASE: Rolfs | JOB TYPE: TOP TO BOTTOM | TICKET NO.: 34098

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	1200							ON LOCATION
								5½ x 14 #
								RTD - 3340
								TOTAL PIPE - 3333
								SHOE 42.47
								CENTRALIZERS - 4, 6, 8, 10, 12, 14, 17, 19, 70, 72
								BASKETS - 3, 16, 68
	245							START Running Csg
	440							BREAK CIRC
	510	2	8			0		plug RAT HOLE - 30 sx
		6	12			400		pump MUDFLUSH - 500 GAL
		6	20			400		pump KCL SPACER
		6	0			400		START CMT - 205 sx SMD @ 11.2 PPG
		6	115			400		SWITCH to EA-2 - 150 sx @ 15.5 PPG
		4.5	150			300		END CMT
								Drop plug - WASH P&L
		7	0			300		START DISP
		7	80.25			1200		LAND plug - @ 2200
								Release psi - Dry
								CIRC 35 sx to pit
								JOB COMPLETE
								THANKS
								DAVID - SETH & ISAAC

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

Well Name:	**Rolfs #2 - Carmen Schmitt, Inc.**
API:	**15-053-21378-00-00**
Location:	**NE-SW-SE-NW, Section 36-16S-09W**
License Number:	**KCC #6569**
Region:	**Ellsworth Co., Ks**
Spud Date:	**December 14, 2021**
Drilling Completed:	**December 21, 2021**
Surface Coordinates:	**2045' FNL & 1850' FWL, of Section**
Results:	**Production Casing Set**
Bottom Hole Coordinates:	**Vertical Wellbore**
Field:	**Gregory**
Ground Elevation (ft):	**1764 Ft.**
K.B. Elevation (ft):	**1774 Ft.**
Logged Interval (ft):	**2500 Ft. To: 3340 Ft.**
Total Depth (ft):	**RTD 3340 Ft. LTD 3341 Ft.**
Formation:	**Arbuckle at Total Depth**
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 set production casing on the "Rolfs #2", for further testing.

M. Bradford Rine
geologist

Drilling Information

Rig: Southwind #8
Pump: Emsco D375 6x14
Drawworks: RMI 550
Collars: 491' 2-1/4 x 6-1/4
Drillpipe: 4-1/2" 10.6# XH
Toolpusher: Doug Roberts

Mud: Mudco (Gary Schmidtberger, Brad Bortz)
Gas Detector: None
Drill Stem Tests: Trilobite (Dustin Day)
Logs: Midwest (Dan Schmidt)
Water: Farm Pond (Midwest Waterline)
Company Representatives:
Office: Carmen Schmitt
Field: Curtis Hitchmann

Daily Drilling Status

Date:	Operations/Depth/Comments
12-13-21	MIRT, RU @ 0'
12-14-21	Spud @ 0'
12-15-21	Drilling @ 425'
12-16-21	Drilling @ 1630'
12-17-21	Drilling @ 2450'
12-18-21	Trip out of Hole for DST #1 @ 3032'
12-19-21	Drilling @ 3117'
12-20-21	Trip Out of Hole with DST #3@ 3265'
12-21-21	Circulating to Condition Hole @ 3340' RTD
12-22-21	Finish Cementing Production Casing at 6:30 AM

	Results:	Oil		(Well A)	Oil	(Well B)	Oil		
	Carmen Schmitt, Inc.			Glickman Oil Co.		Trek AEC LLC			
	Rolfs #2			Rolfs #1		Staatz #2			
	2045' FNL & 1850'FWL			330' FNL & 1320' FWL		1445' FSL & 1945' FEL			
	Sec. 36-16S-09W			Sec. 36-16S-09W		Sec. 35-16S-09W			
	KB	1774		KB	1752	KB	1747	Well A	Well B
Formations	Sample	E-Log	Datum	E-Log	Datum	E-Log	Datum	Comparison(s)	
Anhydrite	424	424	1350	NOL		424	1323		27
Topeka	2434	2434	-660	NOL		2430	-683		23
Heebner Sh.	2691	2691	-917	2667	-915	2690	-943	-2	26
Toronto	2710	2711	-937	2684	-932	2710	-963	-5	26
Brown Lime	2786	2786	-1012	2767	-1015	2794	-1047	3	35
Lansing	2810	2810	-1036	2785	-1033	2807	-1060	-3	24
Stark Sh.	3052	3057	-1283	3035	-1283	3047	-1300	0	17
B/Kansas City	3124	3130	-1356	3106	-1354	3119	-1372	-2	16
Conglomerate	3130	3133	-1359	3110	-1358	3125	-1378	-1	19
Viola	3210	3211	-1437	3172	-1420	3174	-1427	-17	-10
Simpson	3240	3242	-1468	3208	-1456	3190	-1443	-12	-25
Arbuckle	3277	3280	-1506	3258	-1506	3230	-1483	0	-23
Total Depth	3340	3341	-1567	3242	-1490	3331	-1584	-77	17

Casing Record, Bit Record, Deviation Surveys

CASING:

Conductor: None

Surface: Ran 6 jts 8-5/8", 20#, new. Set at 249'. (Copeland) Cement with 200 sx, 60/40 Poz, 2% gel, 3% CC. Cement did circulate.

Production: Ran 79 joints of new, 15.5#, 5 /12" casing, tally @ 3336', set @ 3334', (Swift) Cemented with 200 sacks of SMD & 150 sacks of EA-2, 30 sacks RH. Plug down @ 6:30 a.m., on 12.22.21.

BITS:

No.	Size	Make	Model	Depth In	Depth Out	Hours
1	12-1/4	JZ	tooth	0	252	2.5
2	7-7/8	JZ	HA23	252	3032	56.0
3	7-7/8	HTC	MX30rr	3032	3340	14.75

DEVIATION SURVEYS:

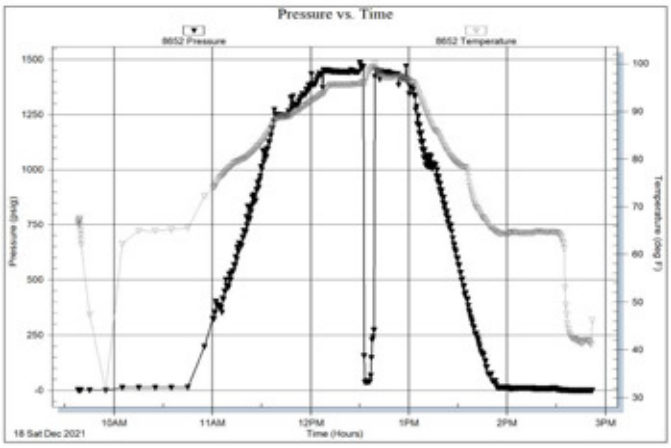
Deviation:	Depth:	Deviation:	Depth:
0.25*	252'	0.25*	3265'
1.50*	3032'	0.50*	3340'

PIPE STRAPS:

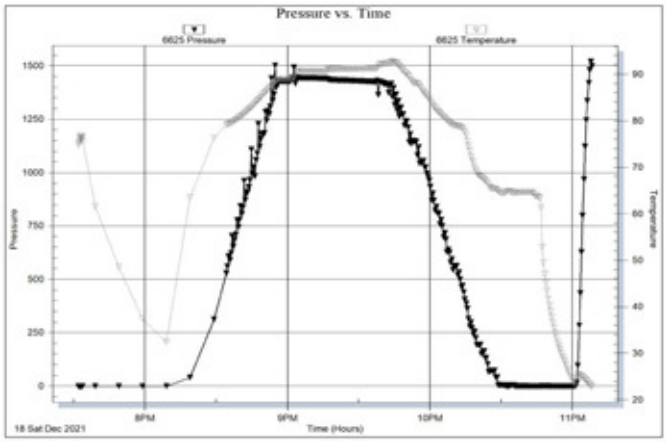
Difference:	Depth:
0.19' Long	3032'
2.19' Long	3340'

MUD UP:
Displace @ 2386'
Mudup @ 2418'

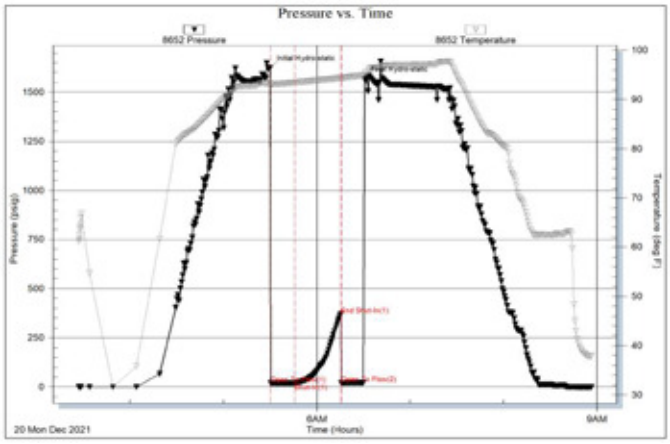
DST #1: 3013-3032 (LKC J)
Misrun, Hit bridge or fill 30' off bottom, slid tool 15' decided to pull test Tool full of cuttings!
Rec: 32' mud



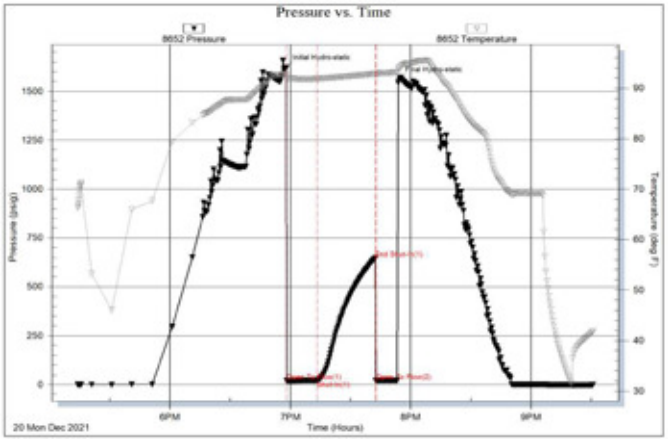
DST #2: 3013-3032 (LKC J)
Misrun: Hit bridge/fill 17' off bottom.
Pull Tool.
Rec: None



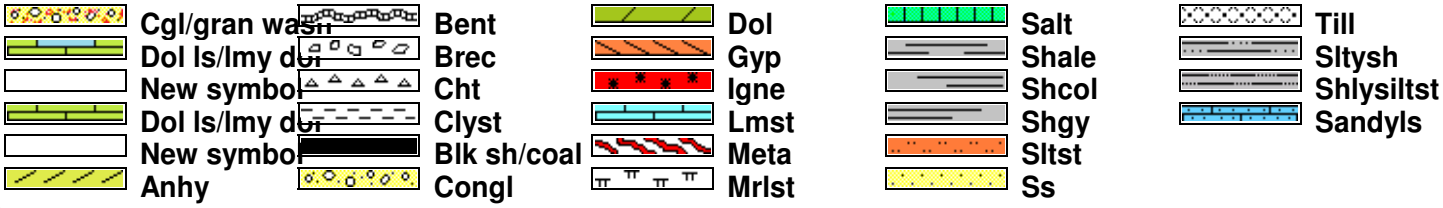
DST #3: 3227-3265 (Simpson)
Times: 15-30-15-out
Initial Open: Weak blow, built to 3/4" i.b.
Final Open: V Weak surf blow
Rec: 1' mud, with oil spots in tool
IHP: 1622 FHP: 1565
IFP: 19-20 FFP: 20-...
ISIP: NA
BHT: 94*F



DST #4: 3227-3276 (Arbuckle)
Times: 15-30-10-out
Initial Open: Wk Blow, built to 1" i.b.
Final Open: No Blow
Rec: 1' mud
IHP: 1621 FHP: 1559
IFP: 19-22 FFP: 20-...
ISIP: 646 FSIP: NA
BHT: 94



Rock Types



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

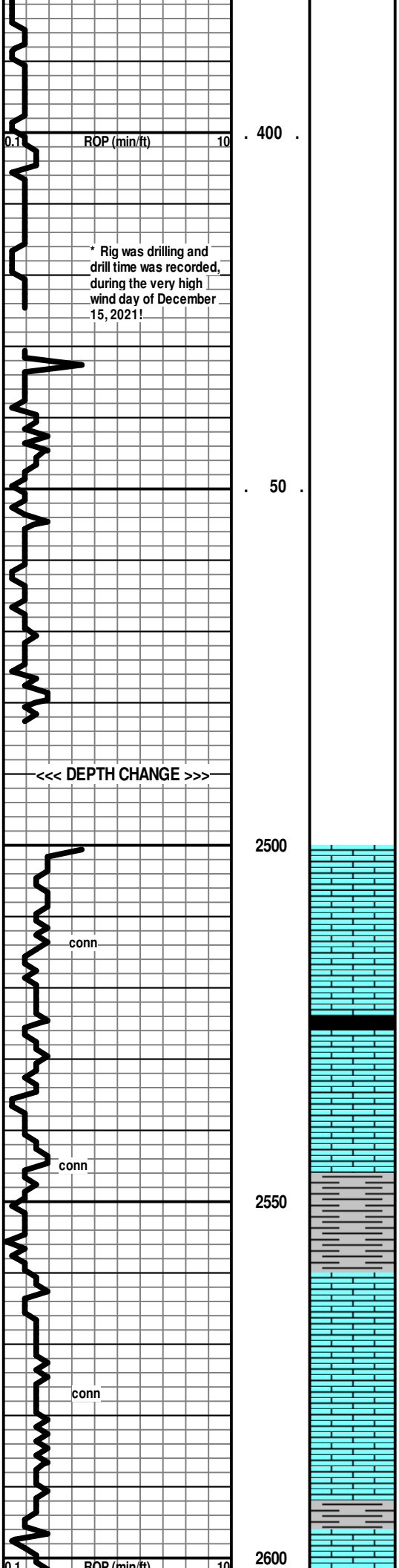
STRINGER

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

TEXTURE

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

ROP (min/ft)	MD	Lithology	Shows	Geological Descriptions	Remarks
0.1 ROP (min/ft) 10	. 300 .				
	. 50 .				



* Due to the wind storm on 12-15-21, along with the shallow depth and weak Anhydrite in this area, this geologist found the drill time of little value, defining the position of the Anhydrite. Therefore, no drilling tops were picked!

It recommended to wait for log picks of the Anhydrite Interval!

Ls wh-cr-tan, fn xln, pr-fr xln por, some dns, some chalky, scatt pp pores, foss (some weath'dto gy); Low % gy shales in spls

Ls wh-cr-tan, fn xln, pr xln por to dns, chalky in pt, foss; some black shale, carb, incr in gy grnish-gy shales, subsilty in pt

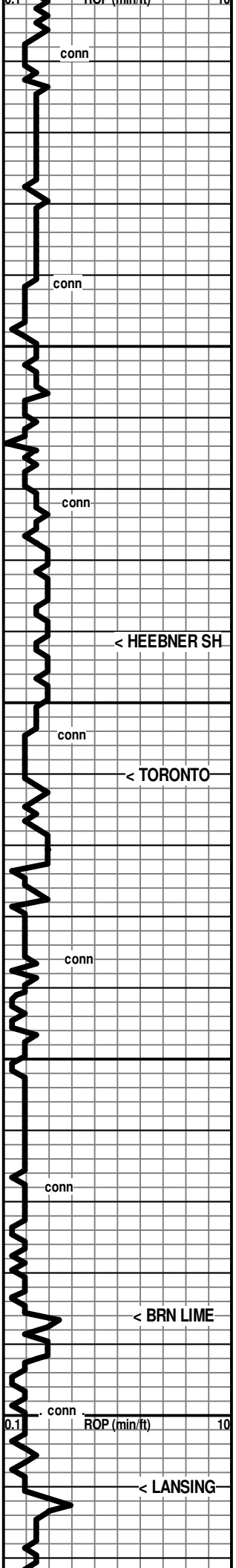
Ls wh-cr-tan,fn xln, abund chalky & soft, abund pr xln por to dns, foss

Ls wh-cr-gy, fn xln, pr vis xln por, abund chalky & soft, foss

* Displace @2386', Mudup @ 2418'!

Mud Check, Drlg @ 2580':

Vis	Wt	WL	PV	YP
64	8.5	7.2	22	23
Chl	Hd	pH	LCM	Solids
3100	60	11.5	3	1.3



2620' spl: Mod am't of black shale, carb;

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

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

Ls wh-cr-tn, fn xln, dns & hard to soft & chalky, ool in pt

Ls wh-cr, fn xln, chalky to dns to pr xln por, foss, sli cherty: fresh

Ls wh-cr, fn xln, pr vis xln por, chalky in pt, abund chert: fresh, tan-gy-dk gy, foss

<---------- 2691 (-917)

Sh black, carb (v sli repres in 2690' & 2700' spls)
Ls cr-tan, fn xln, dns, foss

Sh pl gy-gy

<---------- 2710 (-936)

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

Sh gy-grn, subsilty to silty in pt

Sh gy-grnish, silty in pt to shaley siltstone

Sh gy-grnish, silty in pt to shaley siltstone

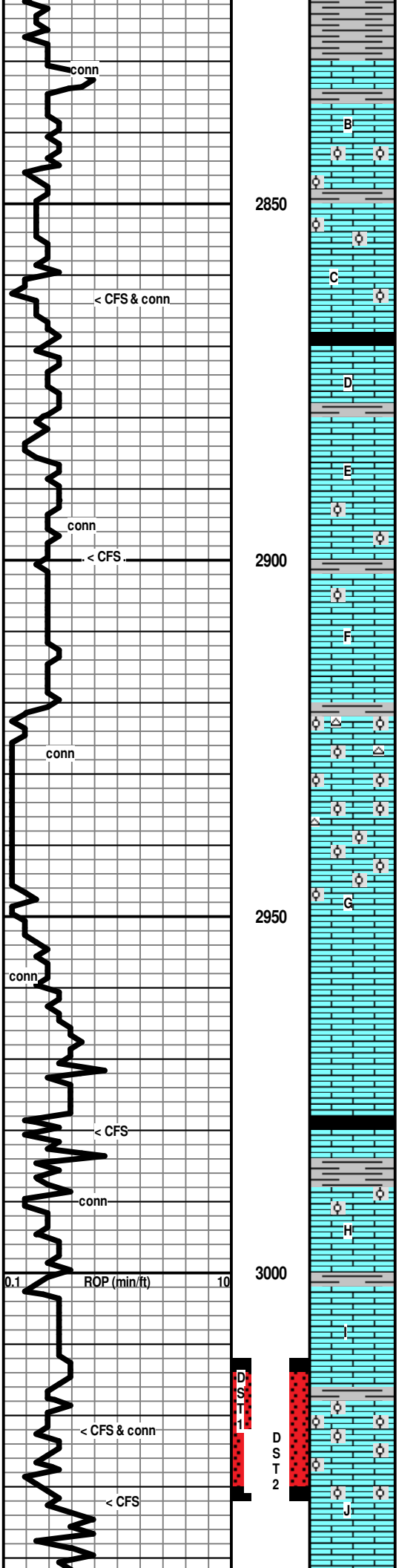
<---------- 2786 (-1012)

Ls cr-tan, fnxln, dns

Sh gy-grnish, silty

<---------- 2810 (-1036)

Ls wh-cr, fn xln, mostly pr xln por, some fr xln por, subchalky in pt, foss, some sdy in pt



2830 & 2840'spls: 60% pl gy-gy silty shale and shale; 40% Ls cr, fn xln, mostly pr xln por, dns in pt, foss

2850'spl: 50% pl gy-gy silty shale and shale; 50% Ls cr, fn xln, mostly pr xln por, dns in pt, foss

Ls cr, fn xln, pr vis xln por, abund ool & oom with scatt gd oom por,foss

Ls wh-cr, fn xln, chalky in pt, ool-oom in pt with scatt gd oom por

Sh dk gy-black, carb in pt

Ls wh-cr, vfn-fnxln, mostly dns, some pr xln por, foss

Sh gy

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

Ls wh-cr-gy,fn xln, pr-fr xln por in pt, dns in pt, abund foss & ool

Ls cr-tan fn xln, dns, some fresh ool chert
Sh gy

Ls cr-tan, fnxln, pr-fr xln por, ool to oom with scatt gd oom por, chert: fresh, ool, opaq

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

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

Sh black, carb

Ls wh-cr-tan, fn xln, dns to pr xln por, ool in pt (fn)

Sh gy

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

Ls wh-cr-tan, fnxln, somechalky, mostly pr xln por, foss (weath'd gy in pt), ool in pt, abund oom

[Fnt Odor, No fluor, Low% pcs with sli-fr shows of tan-Brn-Dk brn FO to NVL Hvy oil, sli gassy, scatt patchy & spotty tan-lt brn stn]

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

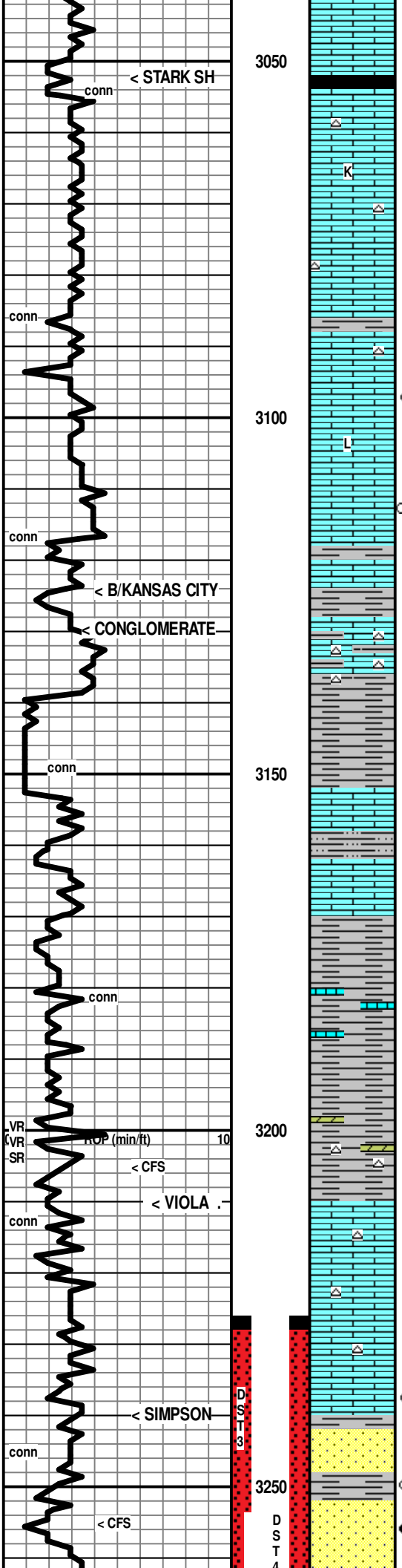
* 2980': Short Trip 20-stands to condition hole for deeper DSTs!

Mud Check, TIH/DST1 @ 3032':

Vis	Wt	WL	PV	YP
53	9.3	7.2	18	16
Chl	Hd	pH	LCM	Solids
4000	80	10.5	2	6.8

7:00 AM, December 18, 2021

* Pipe Strap @ 3032': 0.19' long!



<---------- 3052 (-1278)
Sh gy-dk gy-black, carb in pt

Ls cr-tan, fn xln, dns, sli foss in pt, Chert: fresh, cr, opaq

K

Ls wh-cr-tan,vfn-fnxln, dns, packed foss in pt

Ls wh-cr-tan-dk gy, fn xln, mostly dns to pr xln por, some chalky to Sh gy-dk gy foss; 30% Shales dk gy-black

Ls wh-cr-tan, vfn-fn xln, mostly dns, some pr vis xln por, foss to packed foss, chert: fresh, wh, opaq

Ls cr, fn xln, dns, with Rr patches of pr xln por, foss
[No Odor,No fluor, few pcs with scant patch of brn stn, NSFO]

L

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

<---------- 3124 (-1350)
Sh gy-dk gy
<---------- 3130 (-1356)

Mix of: Ls cr, fn xln, mostly pr xln por to dns, foss in pt; Sh gy-dk gy; low % chert: fresh, wh, foss in pt

3170' spl: 65% Shales gy-grn-red, silty to clay, soft to firm; 35% Ls wh-cr-tan, fn xln, chalky & mushy to dns-pr xln por, silty in pt shaley in pt (washes pl red)

3180' spl: 35% Shales gy-grn-red, silty to clay, soft to firm; 65% Ls wh-cr-tan, fn xln, chalky & mushy to dns-pr xln por, silty in pt shaley in pt (washes pl red)

3190'&3200' spls: 50% Shales gy-grn-red, silty to clay, soft to firm; 50% Ls wh-cr-tan, fn xln, chalky & mushy to dns-pr xln por, some loosely cem paccked foss with interfoss por, silty in pt shaley in pt (washes red)

<---------- 3210 (-1436)
CFS: Mostly as above, some dolomitic Ls, cr-gy, fn-md xln, dns to pr xln por, tr of fresh to sli weath'd chert, wh-gy, foss (washes red)

3220' spl: 50% Shales gy-grn-red, silty in pt; 50% Ls wh-cr-pl gy, fn xln, dns to some pr xln por, silty in pt, sdy in pt, tr fresh chert (washes red)

3230' spl: 65% Ls wh-cr,fn-md xln, dns to pr vis xln por, sdy in pt; 35% Sh gy-grn-red, loose pyr (washes red)
3240' spl: Mostly Ls wh-cr, fn xln, sdy in pt, pr vis xln por, scatt pyrite inclusions., chert: fresh, tan, transl
Sh pl grn-grn-dk grn

<---------- 3240 (-1466)
Sd glassy-pl grn, fn-md grn, subrd, fr-gd sort, pr-fr-gd fri, cem in pt, mostly pr vis por
3272' CFS: Abund Shale, grn, waxy-subwaxy text, subsilty in pt, scatt pyr-sucrosic text; also debris above
[Fnt Sour Odor, No Fluor, NSO]
Sd glassy-gy-pl grn, fn grn, subrd to nearly rd, cem in pt, pr-fr-gd fri, mostly pr vis intergrnlr por, some fr por
[Mod-Stg Sli Sour Odor, No fluor, v low % of pcs with sli-mod show of lt brn FO & NVL oil on crush, a couple of pcs with gd show oil-v sli gassy, v low %

DST #1: 3013-3032 (LKC J)
Misrun: Hit bridge or fill 30' off bottom, slid tool 15' decided to pull test Tool full of cuttings!
Rec: 32' mud

DST #2: 3013-3032 (LKC J)
Misrun: Hit bridge/fill 17' off bottom. Pull Tool.
Rec: None

---

* After DSTs: Drill cuttings in fill comprised of: 65% Shales gy-grnish, silty in pt; 35% Ls cr-tan, fn xln, dns in pt, ool & oom in pt!

7:00 AM, December 19, 2021

Mud Check, Drlg @ 3173':

Vis	Wt	WL	PV	YP
52	9.1	8.8	15	15
Chl	**Hd**	**pH**	**LCM**	**Solids**
6000	80	10.5	2	5.4

DST #3: 3227-3265 (Simpson)
Times: 15-30-15-out
Initial Open: Weak blow, built to 3/4" i.b.
Final Open: V Weak surf blow
Rec: 1' mud, with oil spots in tool
IHP: 1622 FHP: 1565
IFP: 19-20 FFP: 20-...
ISIP: NA
BHT: 94*F

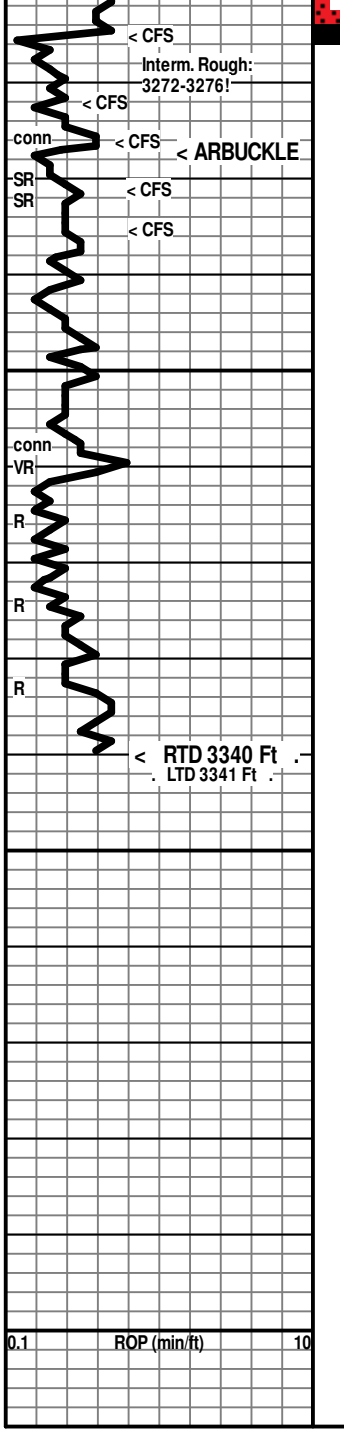
---

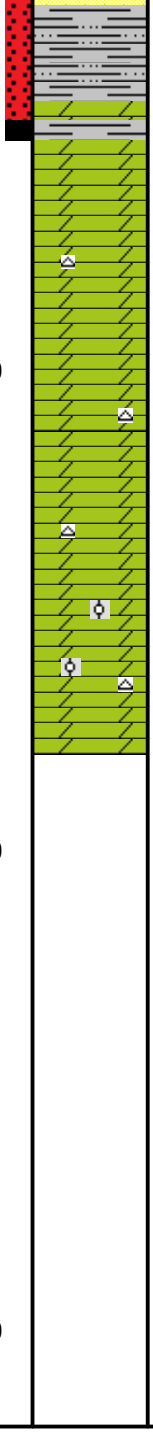
* Add Pre-mix!

* Ran first short trip at 3255', had 90' fill, reamed to bottom. Ran second short trip, had no fill!

Mud Check, 2nd Short Trip @ 3255':

Vis	Wt	WL	PV	YP
75	9.2	7.2	28	29
Chl	**Hd**	**pH**	**LCM**	**Solids**
6000	80	10.5	1.5	6.0





pcs with lt brn patchy-even Stn]

3265' CFS: Sd glassy, fn grn, subrd, gd sort, fr-gd fri, clean in pt; Sh gy-pl grn, wax in pt, silty in pt, glauc

[3265' CFS: Stg Odor, No fluor, fr-gd shows of lt brn-brn FO & NVL oil, patchy to even lt brn stn in pt]

3276'CFS: loose pyr; abund Sd & Sh as above; Few pcs Ls/ Dolom Ls wh-cr, dns, Few pcs Dol cr-tan, fnxln, pr-fr xln por, sucrosic

.3273-3276: Fnt Odor, No fluor, Tr show of brn FO in the few pcs of Dol.]

.3281 CFS: Dol cr, fn-md xln, subsucr-sucr, subrhombic-rhombic, mostly dns, some pr vis xln por, scatt patches& pcs with fr xln por, pr-fr crush, sdy in pt, Rr vugs, chert: fresh to subvitreous, wh, opaque

[3277-3281: V Fnt Sour/Sulphur Odor, v Rr specks/spots of stn, NSFO]

.3281' CFS: Dol cr-tan-pinkish, fn-md xln, sucrosic-subsucr., pr-fr xln por, pr-fr-gd crush, dns in pt, scatt vugs, [NS]

3300' spl: Dol cr-tan-pinkish, fn-md xln, sucrosic-subsucr., pr-fr xln por, pr-fr-gd crush, dns in pt, scatt vugs, sdy in pt, Chert: sli devitrified, wh-cr, opaque

Dol cr-tan, fn-md xln, sucrosic-subsucr., subrhombic-rhombic, pr-fr-gd xln por, pr-fr-gd crush, dns in pt, scatt vugs, sdy in pt, some ool/oom pcs, Chert: sli devitrified, wh-cr, opaque, some loose pyrite

7:00 AM, December 20, 2021

<---------- 3277 (-1503)

* Kelly 2' long @ 3276'!

Mud Check, CFS @ 3276':

Vis	Wt	WL	PV	YP
58	9.1	8.0	19	17
Chl	Hd	pH	LCM	Solids
6000	80	9.5	1	5.4

(Raised LCM to cut Arb.)

DST #4: 3227-3276 (Arbuckle)
Times: 15-30-10-out
Initial Open: Wk Blow, built to 1" i.b.
Final Open: No Blow
Rec: 1' mud
IHP: 1621 FHP: 1559
IFP: 19-22 FFP: 20-...
ISIP: 646 FSIP: NA
BHT: 94

RTD @ 3340 Ft., 5:12 AM, December 21, 2021

Mud Check, Logging @ 3340':

Vis	Wt	WL	PV	YP
59	9.2	8.0	16	20
Chl	Hd	pH	LCM	Solids
6000	100	10.0	2	6.1

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.

PO Box 47
Greatbend, KS 67530

ATTN: Brad Rine

36_16_9 Ellsworth

Rolfs #2

Job Ticket: 68021 **DST#: 2**

Test Start: 2021.12.18 @ 00:00:00

GENERAL INFORMATION:

Formation: **LKC J**
Deviated: No Whipstock: ft (KB)
Time Tool Opened:
Time Test Ended:

Test Type: Conventional Bottom Hole (Reset)
Tester: Dustin Day
Unit No: 70

Interval: 3013.00 ft (KB) To 3032.00 ft (KB) (TVD)
Total Depth: 3032.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition:

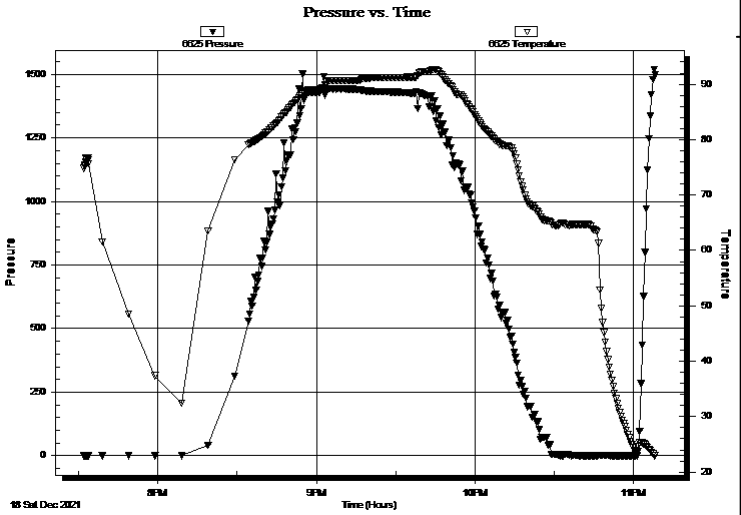
Reference Elevations: 1774.00 ft (KB)
1764.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6625 **Inside**

Press@RunDepth: psig @ 3014.00 ft (KB)
Start Date: 2021.12.18 End Date: 2021.12.18
Start Time: 19:32:05 End Time: 23:08:15

Capacity: 8000.00 psig
Last Calib.: 2021.12.18
Time On Btm:
Time Off Btm:

TEST COMMENT: Hit bridge aprox. 17' up from bottom, pulled tool



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
32.00	mud 100%	0.45

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.

PO Box 47
Greatbend, KS 67530

ATTN: Brad Rine

36_16_9 Ellsworth

Rolfs #2

Job Ticket: 68021 **DST#: 2**

Test Start: 2021.12.18 @ 00:00:00

GENERAL INFORMATION:

Formation: **LKC J**
Deviated: No Whipstock: ft (KB)
Time Tool Opened:
Time Test Ended:

Test Type: Conventional Bottom Hole (Reset)
Tester: Dustin Day
Unit No: 70

Interval: 3013.00 ft (KB) To 3032.00 ft (KB) (TVD)
Total Depth: 3032.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition:

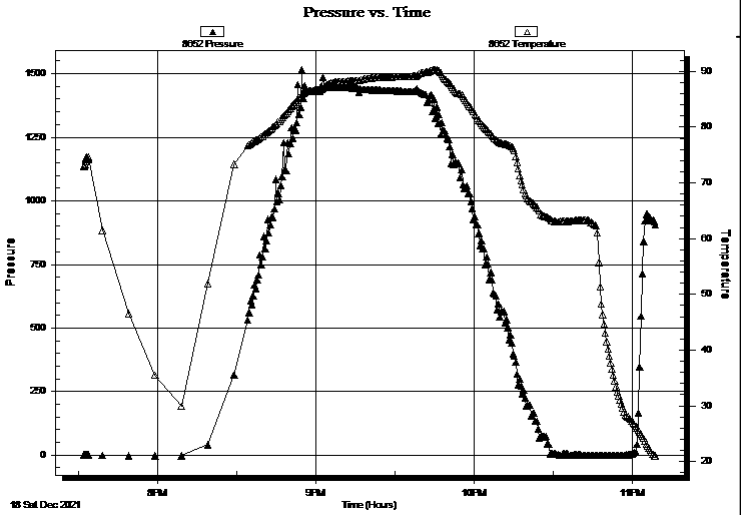
Reference Elevations: 1774.00 ft (KB)
1764.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8652 **Outside**

Press@RunDepth: psig @ 3014.00 ft (KB)
Start Date: 2021.12.18 End Date: 2021.12.18
Start Time: 19:32:05 End Time: 23:09:00

Capacity: 8000.00 psig
Last Calib.: 2021.12.18
Time On Btm:
Time Off Btm:

TEST COMMENT: Hit bridge aprox. 17' up from bottom, pulled tool



PRESSURE SUMMARY

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

Recovery

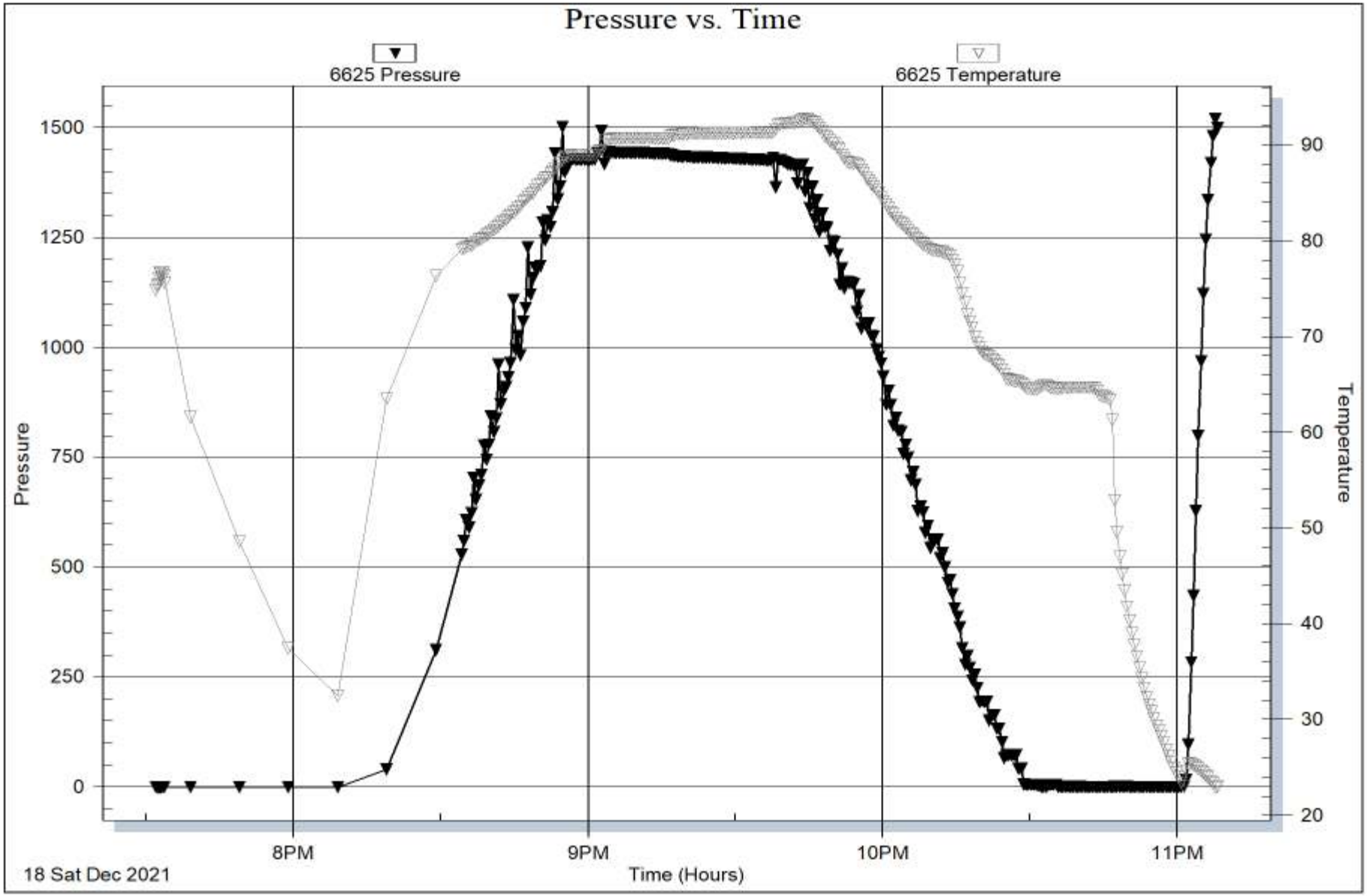
Length (ft)	Description	Volume (bbl)
32.00	mud 100%	0.45

* Recovery from multiple tests

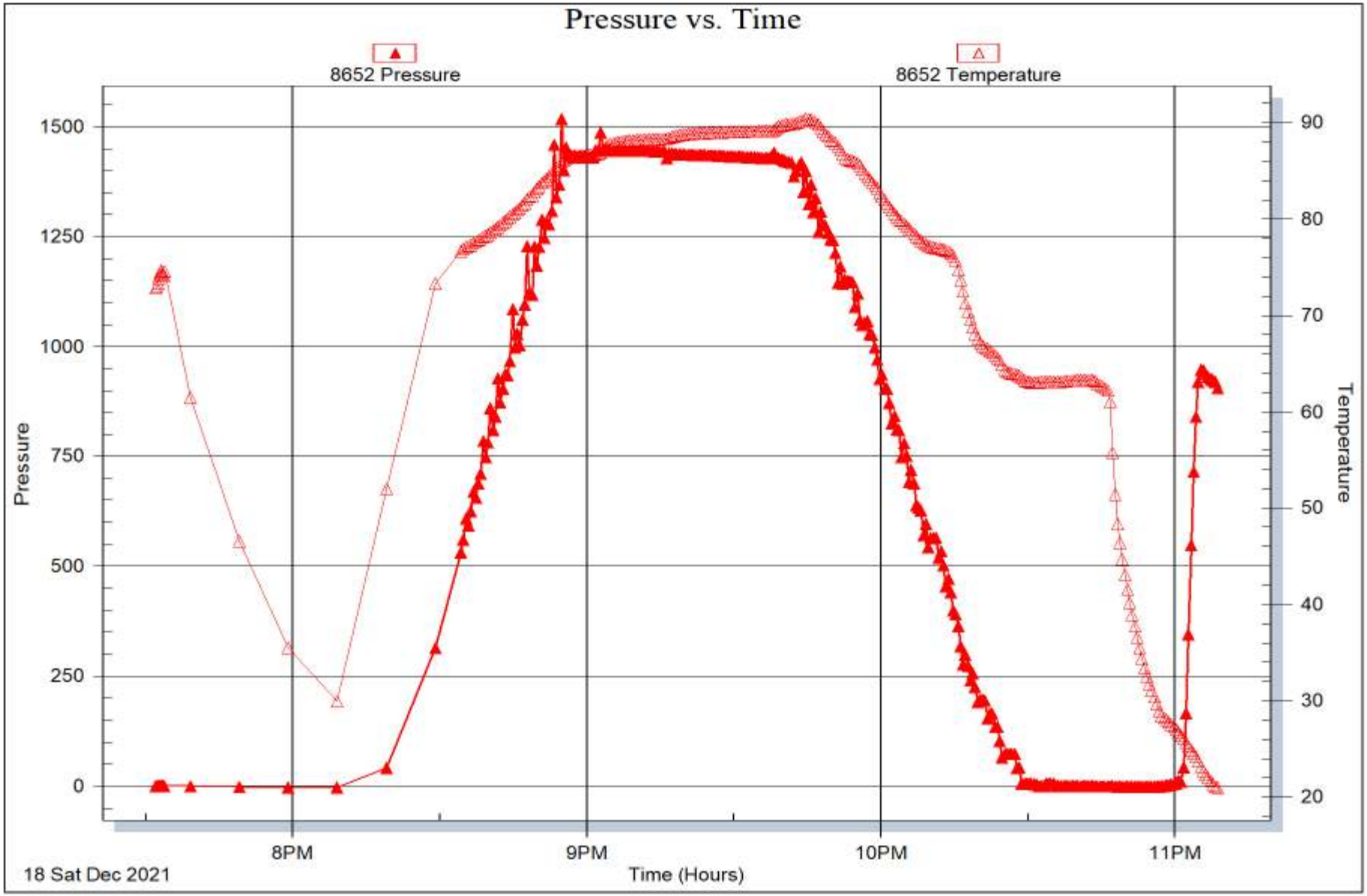
Gas Rates

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

Serial #: 6625 **Inside** Carmen Schmitt, Inc. Rolfs #2 DST Test Number: 2



Serial #: 8652 **Outside** Carmen Schmitt, Inc. Rolfs #2 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 68021 Printed: 2021.12.19 @ 07:35:49

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.

PO Box 47
Greatbend, KS 67530

ATTN: Brad Rine

36_16_9 Ellsworth

Rolfs #2

Job Ticket: 68023 **DST#: 3**

Test Start: 2021.12.20 @ 03:27:00

GENERAL INFORMATION:

Formation: **Simpson**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:30:15
Time Test Ended: 08:56:15

Test Type: Conventional Bottom Hole (Reset)
Tester: Dustin Day
Unit No: 70

Interval: 3227.00 ft (KB) To 3265.00 ft (KB) (TVD)
Total Depth: 3255.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

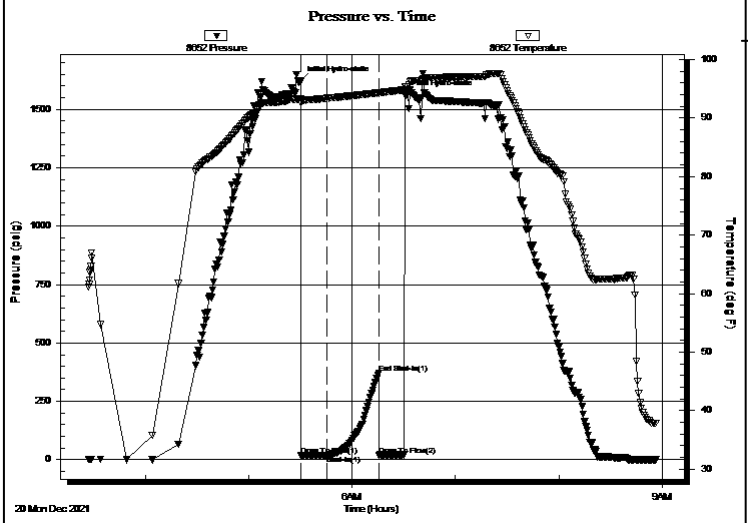
Reference Elevations: 1774.00 ft (KB)
1764.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8652 **Outside**

Press@RunDepth: 19.99 psig @ 3228.00 ft (KB)
Start Date: 2021.12.20 End Date: 2021.12.20
Start Time: 03:27:05 End Time: 08:56:14

Capacity: 8000.00 psig
Last Calib.: 2021.12.20
Time On Btm: 2021.12.20 @ 05:30:00
Time Off Btm: 2021.12.20 @ 06:30:45

TEST COMMENT: IF-15- Built to 3/4"
SI1-30- No return
FF-15- w eak surface blow
Pull tool



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1621.53	93.38	Initial Hydro-static
1	18.88	92.55	Open To Flow (1)
16	19.99	93.39	Shut-In(1)
46	370.27	94.32	End Shut-In(1)
46	19.50	94.24	Open To Flow (2)
61	1564.50	95.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	mud 100%	0.01
0.00	oil spots in tool	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
Greatbend, KS 67530

ATTN: Brad Rine

36_16_9 Ellsworth

Rolfs #2

Job Ticket: 68023 **DST#: 3**

Test Start: 2021.12.20 @ 03:27:00

GENERAL INFORMATION:

Formation: **Simpson**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:30:15
Time Test Ended: 08:56:15

Test Type: Conventional Bottom Hole (Reset)
Tester: Dustin Day
Unit No: 70

Interval: 3227.00 ft (KB) To 3265.00 ft (KB) (TVD)
Total Depth: 3255.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

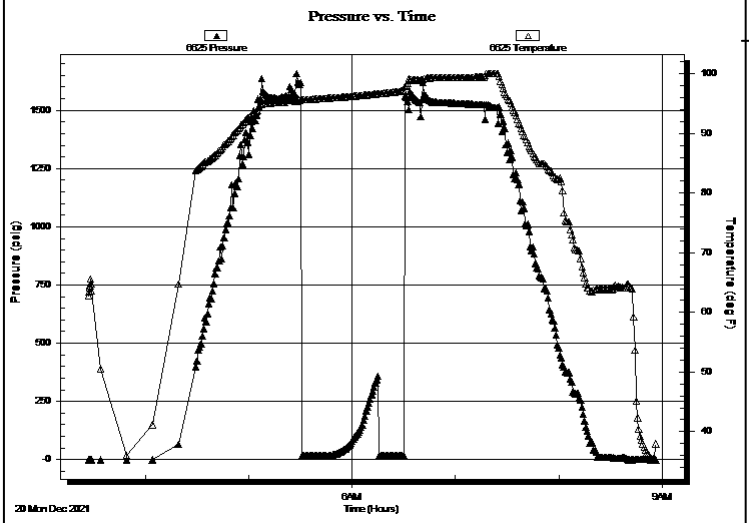
Reference Elevations: 1774.00 ft (KB)
1764.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6625 **Inside**

Press@RunDepth: psig @ 3228.00 ft (KB)
Start Date: 2021.12.20 End Date: 2021.12.20
Start Time: 03:27:05 End Time: 08:56:14

Capacity: 8000.00 psig
Last Calib.: 2021.12.20
Time On Btm:
Time Off Btm:

TEST COMMENT: IF-15- Built to 3/4"
SI1-30- No return
FF-15- w eak surface blow
Pull tool



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
1.00	mud 100%	0.01
0.00	oil spots in tool	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc.

PO Box 47
Greatbend, KS 67530

ATTN: Brad Rine

36_16_9 Ellsworth

Rolfs #2

Job Ticket: 68023 **DST#: 3**

Test Start: 2021.12.20 @ 03:27:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	52.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.79 in³	Gas Cushion Type:			
Resistivity:	6000.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	mud 100%	0.014
0.00	oil spots in tool	0.000

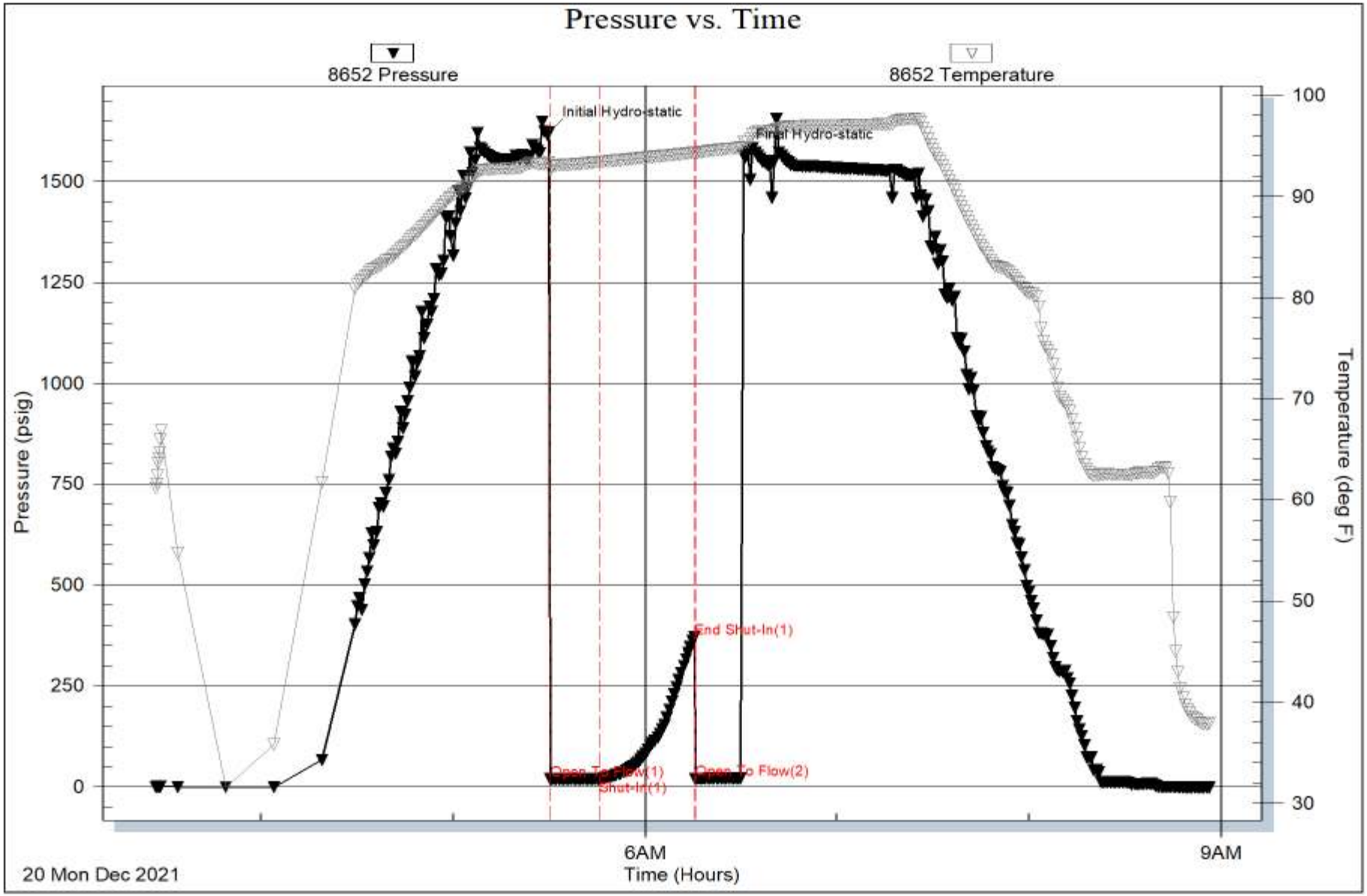
Total Length: 1.00 ft Total Volume: 0.014 bbl

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

Laboratory Name: Laboratory Location:

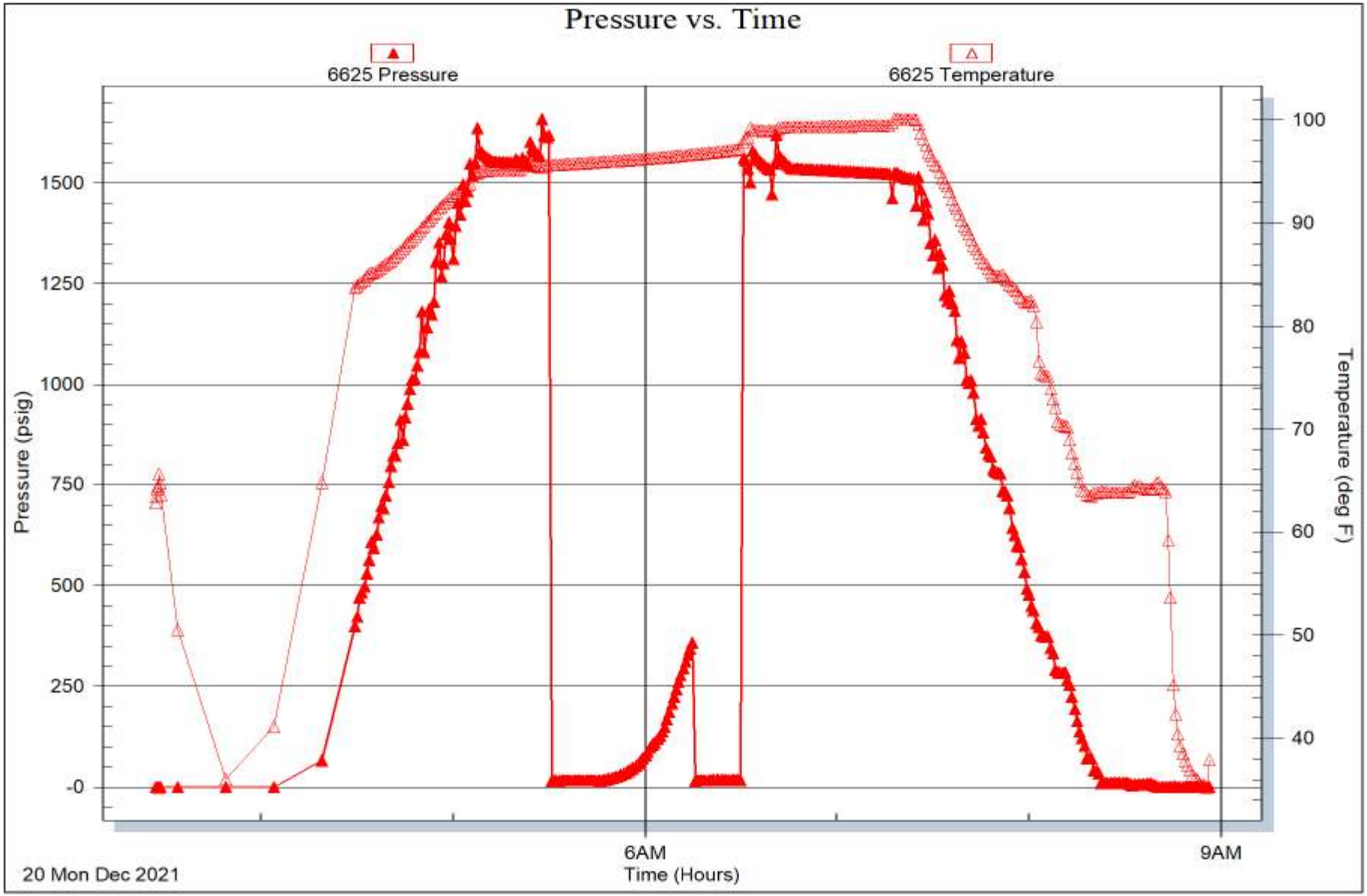
Recovery Comments: 2# LCM

Serial #: 8652 **Outside** Carmen Schmitt, Inc. Rolfs #2 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 68023 Printed: 2021.12.20 @ 09:31:56

Serial #: 6625 **Inside** Carmen Schmitt, Inc. Rolfs #2 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 68023 Printed: 2021.12.20 @ 09:31:56

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.

PO Box 47
Greatbend, KS 67530

ATTN: Brad Rine

36_16_9 Ellsworth

Rolfs #2

Job Ticket: 68024 **DST#: 4**

Test Start: 2021.12.20 @ 17:14:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:58:00
Time Test Ended: 21:30:45

Test Type: Conventional Bottom Hole (Reset)
Tester: Dustin Day
Unit No: 70

Interval: 3227.00 ft (KB) To 3276.00 ft (KB) (TVD)
Total Depth: 3032.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition:

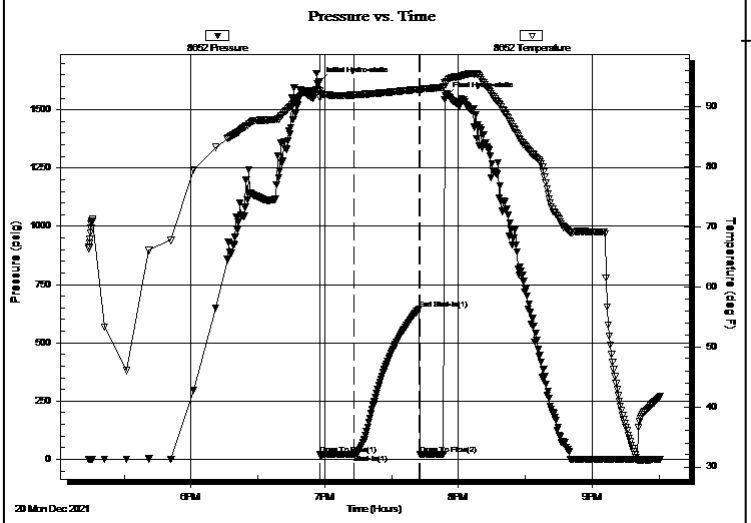
Reference Elevations: 1774.00 ft (KB)
1764.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8652 **Outside**

Press@RunDepth: 21.58 psig @ 3228.00 ft (KB)
Start Date: 2021.12.20 End Date: 2021.12.20
Start Time: 17:14:05 End Time: 21:30:44

Capacity: 8000.00 psig
Last Calib.: 2021.12.20
Time On Btm: 2021.12.20 @ 18:57:45
Time Off Btm: 2021.12.20 @ 19:54:15

TEST COMMENT: IF-15- Built to 1"
SI1-30- no return
FF-10- no blow
Pull tool



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1620.57	92.51	Initial Hydro-static
1	19.28	91.47	Open To Flow (1)
16	21.58	91.87	Shut-In(1)
45	645.76	92.81	End Shut-In(1)
45	20.03	92.54	Open To Flow (2)
57	1558.79	93.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	mud 100%	0.01

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.

PO Box 47
Greatbend, KS 67530

ATTN: Brad Rine

36_16_9 Ellsworth

Rolfs #2

Job Ticket: 68024 **DST#: 4**

Test Start: 2021.12.20 @ 17:14:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:58:00
Time Test Ended: 21:30:45

Test Type: Conventional Bottom Hole (Reset)
Tester: Dustin Day
Unit No: 70

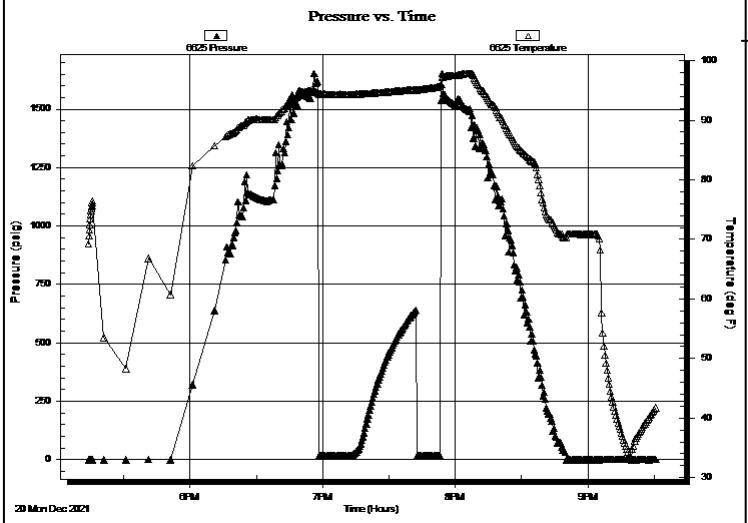
Interval: 3227.00 ft (KB) To 3276.00 ft (KB) (TVD)
Total Depth: 3032.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 1774.00 ft (KB)
1764.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6625 **Inside**
Press@RunDepth: psig @ 3228.00 ft (KB)
Start Date: 2021.12.20 End Date: 2021.12.20
Start Time: 17:14:05 End Time: 21:30:44

Capacity: 8000.00 psig
Last Calib.: 2021.12.20
Time On Btm:
Time Off Btm:

TEST COMMENT: IF-15- Built to 1"
SI1-30- no return
FF-10- no blow
Pull tool



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
1.00	mud 100%	0.01

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc.

PO Box 47
Greatbend, KS 67530

ATTN: Brad Rine

36_16_9 Ellsworth

Rolfs #2

Job Ticket: 68024 **DST#: 4**

Test Start: 2021.12.20 @ 17:14:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	58.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.99 in³	Gas Cushion Type:			
Resistivity:	6000.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	ppm				
Filter Cake:	1.00 inches				

Recovery Information

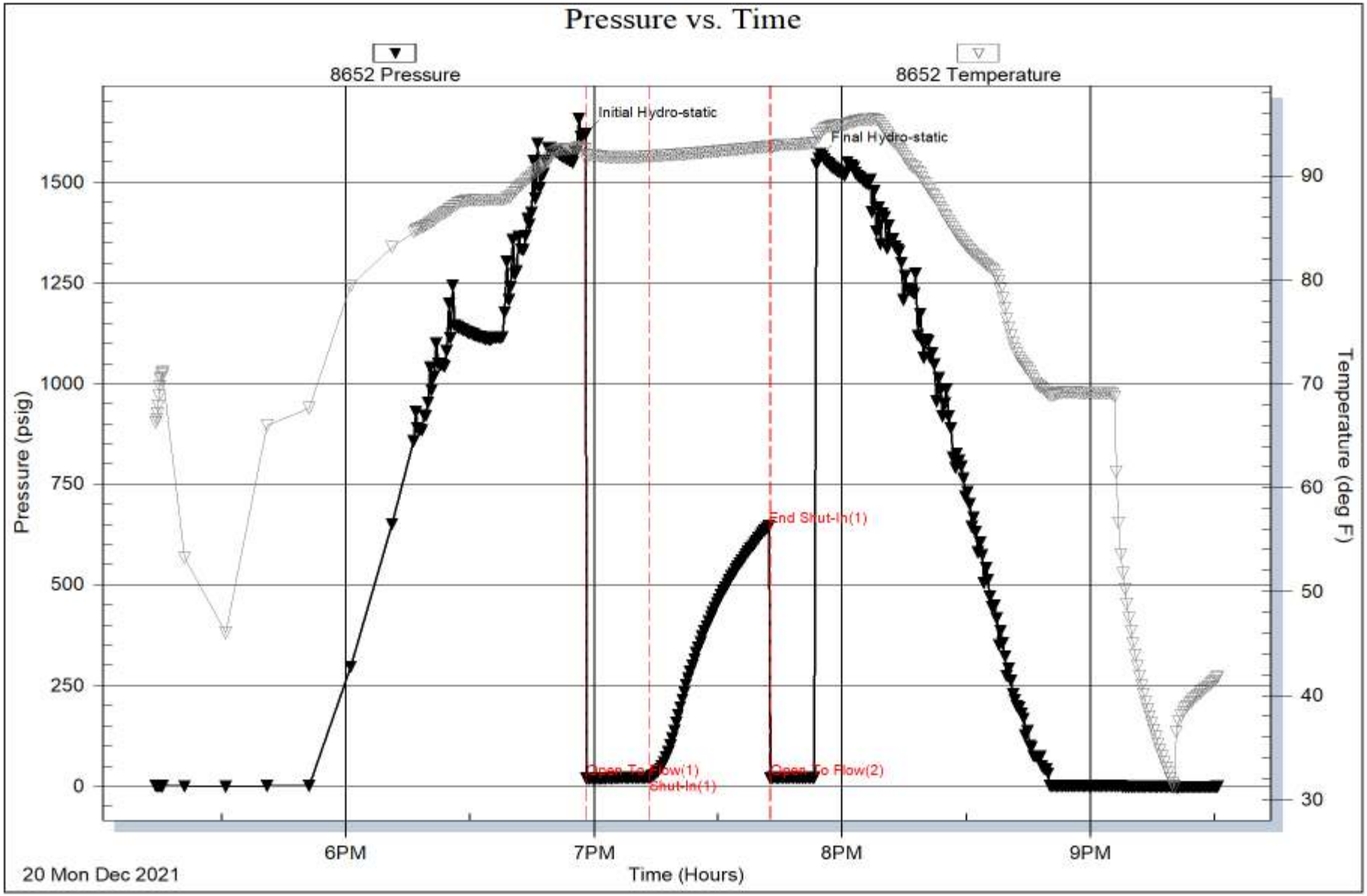
Recovery Table

Length ft	Description	Volume bbl
1.00	mud 100%	0.014

Total Length: 1.00 ft Total Volume: 0.014 bbl

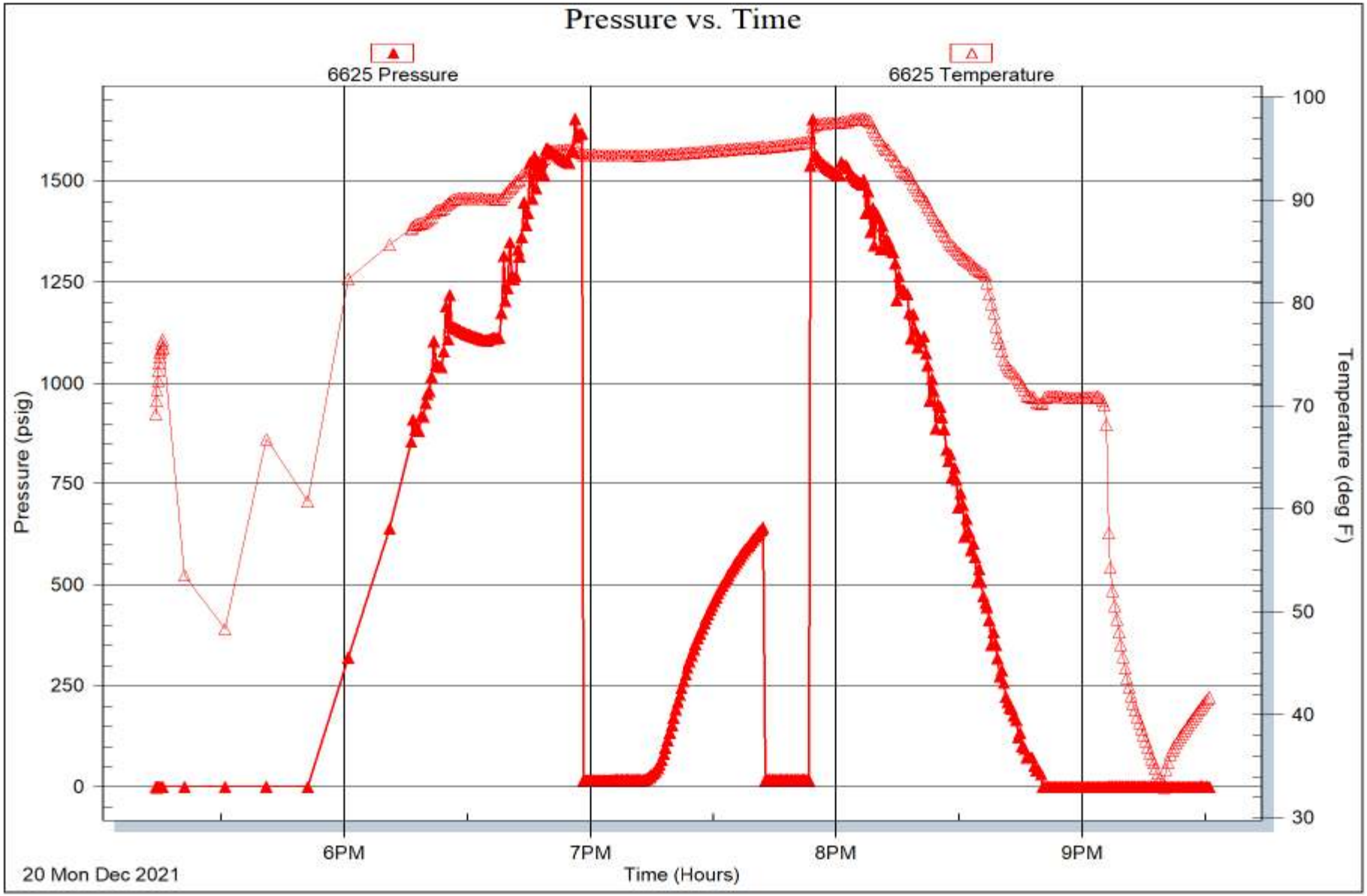
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: 1# LCM

Serial #: 8652 **Outside** Carmen Schmitt, Inc. Rolfs #2 DST Test Number: 4



Trilobite Testing, Inc Ref. No: 68024 Printed: 2021.12.20 @ 22:40:22

Serial #: 6625 **Inside** Carmen Schmitt, Inc. Rolfs #2 DST Test Number: 4



Trilobite Testing, Inc Ref. No: 68024 Printed: 2021.12.20 @ 22:40:22