

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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FRANKS Oilfield Service

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

TICKET NUMBER 4232
 LOCATION Horio, Va
 FOREMAN Mita Stone

FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY																
<u>1/7/21</u>		<u>Madison Denver #1</u>	<u>8</u>	<u>8 S</u>	<u>18 W</u>	<u>Polk</u>																
CUSTOMER <u>Anders Est Foreign LLC</u>			<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>TRUCK #</th> <th>DRIVER</th> <th>TRUCK #</th> <th>DRIVER</th> </tr> </thead> <tbody> <tr> <td><u>101</u></td> <td><u>Tyler</u></td> <td></td> <td></td> </tr> <tr> <td></td> <td><u>Mita Stone</u></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				TRUCK #	DRIVER	TRUCK #	DRIVER	<u>101</u>	<u>Tyler</u>				<u>Mita Stone</u>						
TRUCK #	DRIVER	TRUCK #					DRIVER															
<u>101</u>	<u>Tyler</u>																					
	<u>Mita Stone</u>																					
MAILING ADDRESS																						
CITY	STATE	ZIP CODE																				

JOB TYPE <u>PTA</u>	HOLE SIZE <u>7 7/8"</u>	HOLE DEPTH <u>4500'</u>	CASING SIZE & WEIGHT
CASING DEPTH	DRILL PIPE <u>4.5"</u>	TUBING	OTHER
SLURRY WEIGHT <u>13.7</u>	SLURRY VOL <u>14'</u>	WATER gal/sk	CEMENT LEFT in CASING
DISPLACEMENT	DISPLACEMENT PSI	MIX PSI	RATE

REMARKS: Supply materials + Rig up for discussion drilling on box 14 Plug and seal
1" plug 505 @ 3415'
2" plug 505 @ 1400'
3" plug 115x @ 800'
4" plug 505 @ 300'
5" plug 115x @ 90'
PT 3050 MH 15.54

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
<u>P6007</u>	<u>1</u>	<u>PUMP CHARGE</u>	<u>1150.00</u>	<u>1150.00</u>
<u>Mile</u>	<u>65</u>	<u>MILEAGE</u>	<u>6.50</u>	<u>422.50</u>
<u>Misc</u>	<u>13.57 Ton</u>	<u>Ton material delivery</u>	<u>1.50</u>	<u>1323.02</u>
<u>CB010</u>	<u>305 SK</u>	<u>60/40 48 gal 14" Plug seal</u>	<u>16.25</u>	<u>4956.25</u>
<u>FE05V</u>	<u>1</u>	<u>8 5/8 Weston Plug</u>	<u>165.00</u>	<u>165.00</u>
			<u>Subtotal</u>	<u>8016.93</u>
			<u>155 36 % disc</u>	<u>2896.05</u>
			<u>Subtotal</u>	<u>5130.78</u>
			<u>SALES TAX</u>	
			ESTIMATED	
			TOTAL	

AUTHORIZATION Glen Goshier TITLE _____ DATE _____

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

OPERATOR

Company: AEF, LLC
 Address: 2522 Henry Drive
 Hays, KS 67601

Contact Geologist: SJ Staab
 Contact Phone Nbr: 785-259-5793
 Well Name: Maiden Voyage #1
 Location:
 API: 15-163-24417
 Pool: Wildcat
 State: KANSAS

Field: Unknown
 Country: USA

Scale 1:240 Imperial

Well Name: Maiden Voyage #1
 Surface Location:
 Bottom Location:
 API: 15-163-24417
 License Number: 35776
 Spud Date: 12/18/2020 Time: 1:00 PM
 Region:
 Drilling Completed: 1/6/2021 Time: 4:30 PM
 Surface Coordinates: 1840' FSL & 1810' FWL
 Bottom Hole Coordinates:
 Ground Elevation: 1984.00ft
 K.B. Elevation: 1992.00ft
 Logged Interval: 0.00ft To: 0.00ft
 Total Depth: 3500.00ft
 Formation: Arbuckle
 Drilling Fluid Type: Native/Premix

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: 39.36994
 Latitude: -99.35568
 N/S Co-ord: 1840' FSL
 E/W Co-ord: 1810' FWL

LOGGED BY

Company:
 Address: 7863 S. State Road 14
 Kingman, KS 67068

Phone Nbr: 913-687-0164
 Logged By: Geologist Name: Derek Rebel

CONTRACTOR

Contractor: Discovery Drilling Company
 Rig #: #4
 Rig Type: Mud Rotary
 Spud Date: 12/18/2020 Time: 1:00 PM
 TD Date: 1/6/2021 Time: 4:30 PM
 Rig Release: Time:

ELEVATIONS

K.B. Elevation: 1992.00ft Ground Elevation: 1984.00ft
 K.B. to Ground: 8.00ft

NOTES**Offset Well References**

Maiden Voyage				Haines		Haines W		Hayes		Milner	
KB=	1992			KB=	1942	KB=	1969	KB=	1965	KB=	1987
Depth	Datum	Vs. Offset #1	Vs. Offset #2	Vs. Offset #3	Vs. Offset #4	Depth	Datum	Depth	Datum	Depth	Datum

	Depth	Datum	vs. Onset #1	vs. Onset #2	vs. Onset #3	vs. Onset #4	Depth	Datum	Depth	Datum	Depth	Datum	Depth	Datum
AnH	1364	628	46	37	33	15	1360	582	1378	591	1370	595	1374	613
BAnH	1404	588	41	34	26	10	1395	547	1415	554	1403	562	1409	578
Top	2921	-929	-2	-9	5	-5	2869	-927	2889	-920	2899	-934	2911	-924
Top 30'	2954	-962	-7	-14	-1		2897	-955	2917	-948	2926	-961		-
Deer Creek	2965	-973	-3	-10	2		2912	-970	2932	-963	2940	-975		-
Lecompton	3034	-1042	-4	-10	0		2980	-1038	3001	-1032	3007	-1042		-
Oread	3079	-1087	-5	-10	2		3024	-1082	3046	-1077	3054	-1089		-
Heeb	3129	-1137	-4	-9	2		3075	-1133	3097	-1128	3104	-1139		-
Tor	3151	-1159	-3	-9	2		3098	-1156	3119	-1150	3126	-1161		-
LKC	3170	-1178	-4	-9	1		3116	-1174	3138	-1169	3144	-1179		-
BKC	3391	-1399	-9	-10	2		3332	-1390	3358	-1389	3366	-1401		-
Cong.	3411	-1419	-6		0		3355	-1413		-	3384	-1419		-
Simp	3416	-1424		-16	11			-	3377	-1408	3400	-1435		-
Arb	3466	-1474	-37	-51	-19	-17	3379	-1437	3392	-1423	3420	-1455	3444	-1457
RTD	3500	-1508	-10	3	7		3440	-1498	3480	-1511	3480	-1515		-
LTD	3498	-1506						-		-		-		-

DST #1



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Audere Est Facere, LLC

8-8S-18W Rooks,KS

2522 Henry Dr.
Hays, KS 67601

Maiden Voyage #1

ATTN: Spencer Staab

Job Ticket: 64505

DST#: 1

Test Start: 2021.01.05 @ 14:28:57

GENERAL INFORMATION:

Formation: **Oread- LKC "B"**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: **17:31:48**

Time Test Ended: **22:19:33**

Test Type: **Conventional Bottom Hole (Initial)**

Tester: **Brannan Lonsdale**

Unit No: **73**

Interval: **3096.00 ft (KB) To 3187.00 ft (KB) (TVD)**

Reference Elevations: **1992.00 ft (KB)**

Total Depth: **3187.00 ft (KB) (TVD)**

1994.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition:

KB to GR/CF: 8.00 ft

Serial #: **6771** Inside

Press@RunDepth: **67.19 psig @ 3097.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2021.01.05** End Date: **2021.01.05**

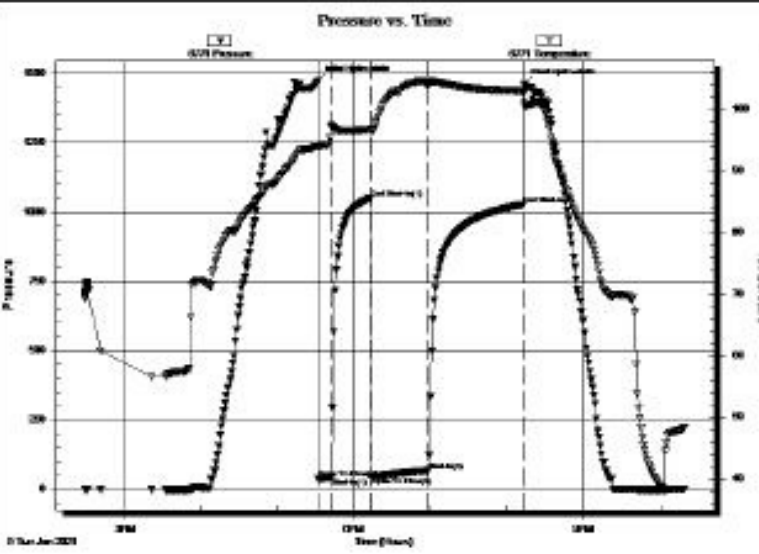
Last Calib.: **2021.01.05**

Start Time: **14:28:58** End Time: **22:19:33**

Time On Btm: **2021.01.05 @ 17:31:18**

Time Off Btm: **2021.01.05 @ 20:13:18**

TEST COMMENT: 10- IF- Slowly built to 1.25"
30- IS- No blow
45- FF- Slowly built to 3.21"
75- FS- No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1473.28	94.06	Initial Hydro-static
1	37.36	94.03	Open To Flow (1)
11	44.12	97.27	Shut-In(1)
42	1049.22	96.77	End Shut-In(1)
43	47.36	96.41	Open To Flow (2)
87	67.19	103.82	Shut-In(2)
162	1025.25	102.97	End Shut-In(2)
162	1461.15	100.98	Final Hydro-static

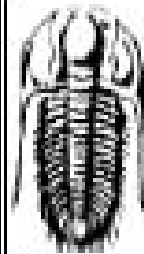
Recovery

Gas Rates

Length (ft)	Description	Volume (bb)
110.00	WM, 45%W 55%M	1.27

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

DST #2



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Audens Est Facere, LLC

8-83-18W Rook, K8

2522 Henry Dr.
Hays, KS 67601

Malden Voyage #1

ATTN: Spencer Staab

Job Ticket: 64506

DST# 2

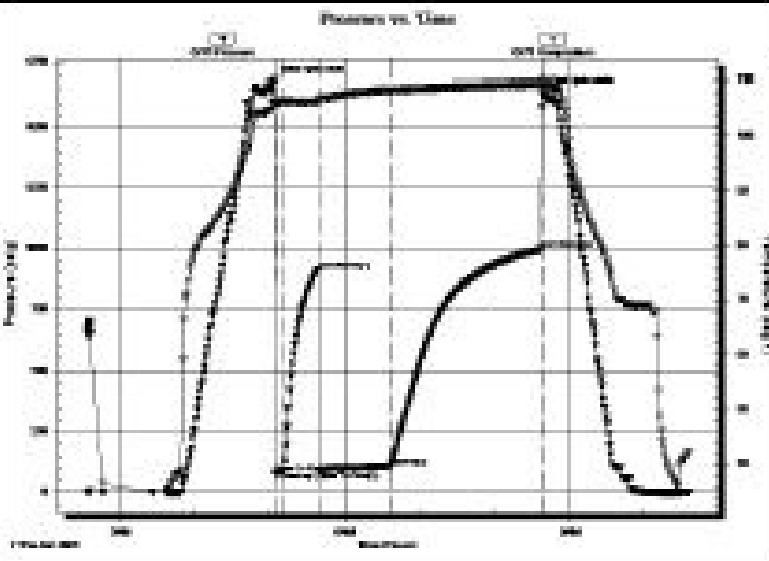
Test Start: 2021.01.07 @ 02:34:03

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: **No Whipstock** ft (KB)
 Test Type: **Conventional Straddle (Res at)**
 Time Tool Opened: **05:03:54**
 Tester: **Brannan Lonsdale**
 Time Test Ended: **10:35:00**
 Unit No: **73**
 Interval: **3422.00 ft (KB) To 3450.00 ft (KB) (TVD)**
 Reference Elevations: **1992.00 ft (KB)**
 Total Depth: **3500.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 KB to GR/CF: **8.00 ft**

Serial #: 6771 **Inside**
 Press@RunDepth: **105.10 psig @ 3423.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2021.01.07** End Date: **2021.01.07** Last Calib: **2021.01.07**
 Start Time: **02:34:04** End Time: **10:35:00** Time On Btm: **2021.01.07 @ 05:03:24**
 Time Off Btm: **2021.01.07 @ 08:38:00**

TEST COMMENT: 005- F- Slowly built to 3.20"
 030- BI- No blow
 060- FF- Slowly built to 5.60"
 120- FSI- No blow



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1672.66	108.18	Initial Hydro-static
1	78.40	105.95	Open To Flow (1)
8	88.45	108.36	Shut-in (1)
38	914.08	108.31	End Shut-in (1)
38	89.45	108.36	Open To Flow (2)
94	105.10	108.37	Shut-in (2)
214	998.65	109.42	End Shut-in (2)
215	1635.65	109.69	Final Hydro-static

Recovery











Length (ft)	Description	Volume (bb)
185.00	SOOM, 10%O-90%M	2.34

Gas Rates

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

*Recovery from multiple wells

ROCK TYPES

 Congl	 Lmst fw7>	 shale, red	 Slstst
 Dolprim	 shale, gry	 Shcol	
 Dolsec	 Carbon Sh	 Ss	

ACCESSORIES

MINERAL

- Carbonaceous Flakes
- ▲ Chert, dark
- ∠ Dolomitic
- ≡ Nodules
- P Pyrite
- △ Chert White

FOSSIL

- Crinoids
- F Fossils < 20%
- ⊕ Oolite
- ⊗ Fossilinid

STRINGER

- ~~~~ Chert
- ▨ Dolomite
- Sandstone

OTHER SYMBOLS

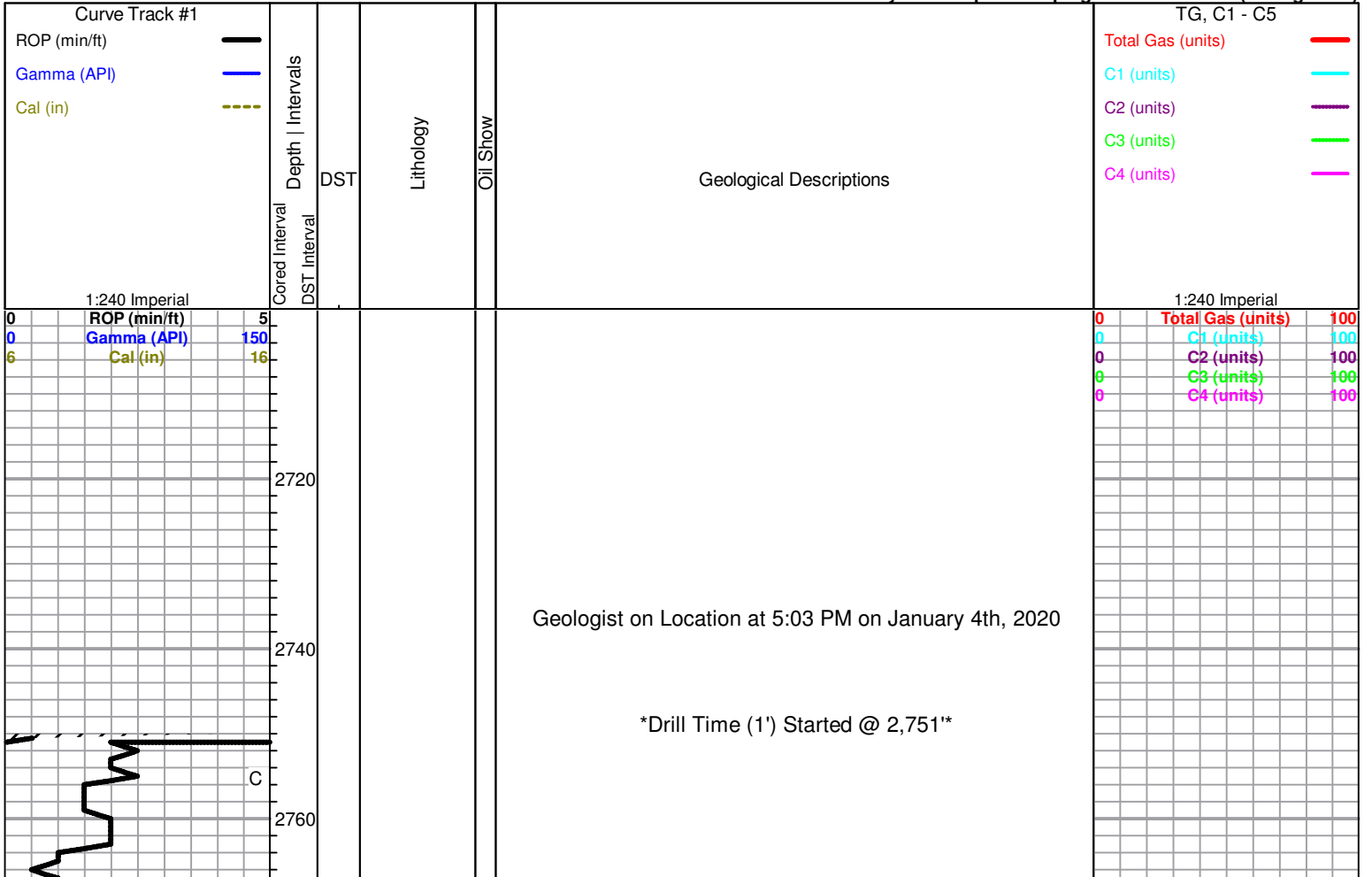
Oil Show

- Good Show
- Fair Show
- Poor Show
- Spotted or Trace
- Questionable Stn
- D Dead Oil Stn
- Fluorescence
- * Gas

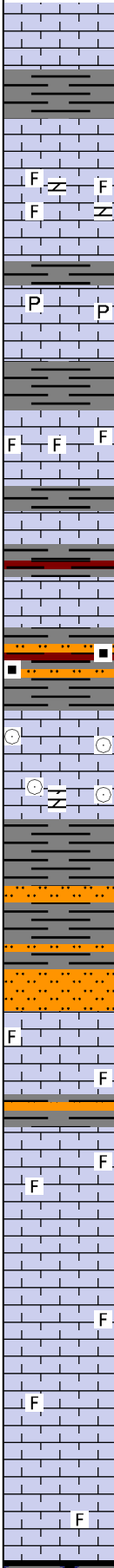
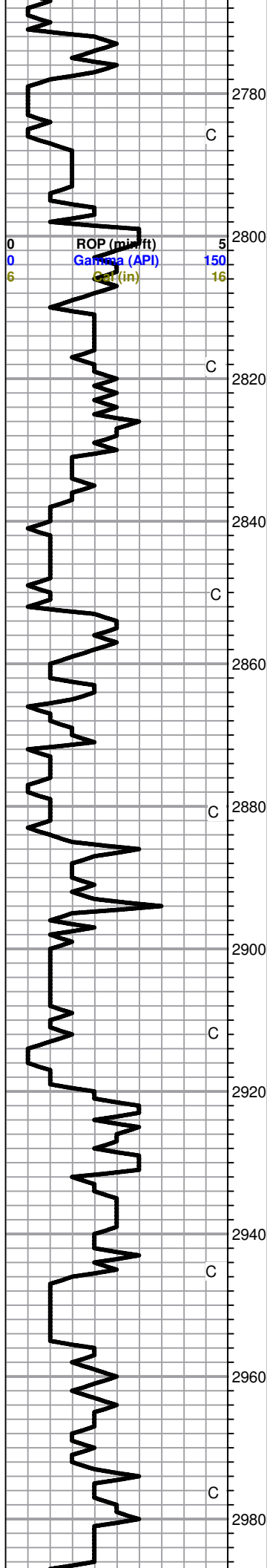
DST

- DST Int
- DST alt
- Core
- || tail pipe

Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca)



Geologist on Location at 5:03 PM on January 4th, 2020



(10') Samples start @ 2,820

Sh - Brown, Drk Gry, Gry, fissile, with trace sltstone. Soft to moderately dense

LS - Gry to Off White, fine xtln, poor porosity, fossiliferous in parts, No Show No oil. Quartz Grns, medium, translucent, sub rounded

LS - Drk to lght Gray, fine xtln, dense, with no shows no odor with an abundance of white chalk, and a few pieces of pyrite

Sh - Brown, Drk Gray, Gray, fissile to blk

LS - Gray to light gray, fine to medium grained, dense, with trace fossils, few pieces with pinpoint porosity. No Odor, No Show

Sh - Various Grays molted red, soft gummy, with some fissile

Sh/Sltstne - Gray, light gray, soft, fissile blk, blk carbonaceous interbedded. Sand - Qtz, subangular, poorly sorted

LS - Gray, fine to medum xtln, dense, crinoids no show no odor with white chalk in parts

LS - Drk Gray, Brown, off white, fine to medium, poor porosity, with qtz nodules, Fossil. in Part No Show No Odor

Sh - Various Grays, fissile, gummy, sand in a couple pieces

Sltstone - Gray/Aqua - qtz, fine grained, sub angular, mod. sorted

Topeka 2,921', (-929)

LS - Gray, Medium xtln, dense, with no visual porosity, rcrystl fossils throughout, no show no odor

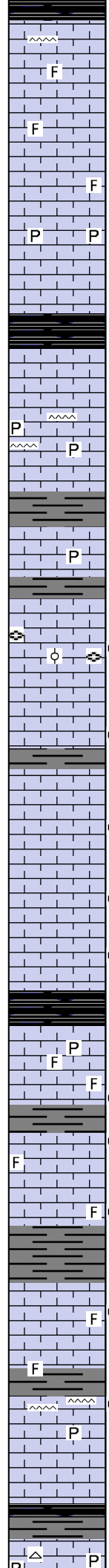
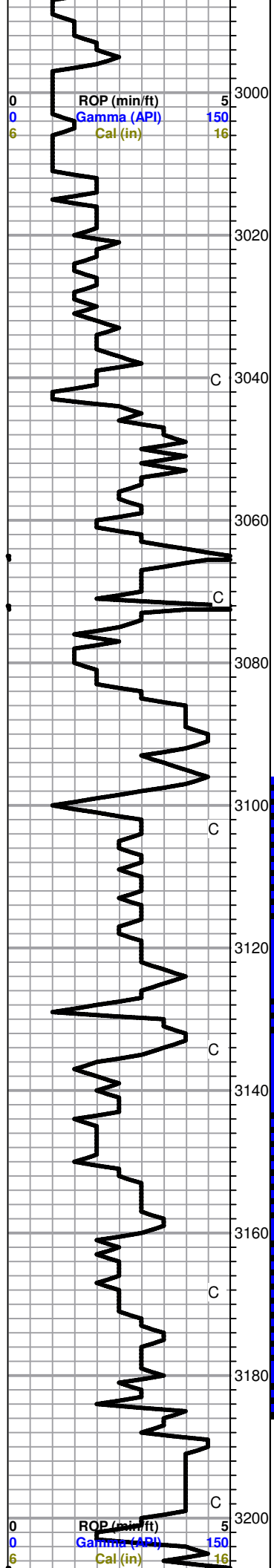
LS - Same as above, more off white, with an abundance of fossils, crinoids, trilobites

LS - Off White to tan, fine xtln, with interparticle porosity, dead oil with edge staining in parts. Very Faint Odor, No Show Free Oil

LS - Gray, fine xtln, dense, with few fossils, and few scattered pcs of chalk

LS - Tan, fine to mdm xtln, dense, with a few interparticle porosity rocks, No Shows, no odir

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	Displaced @ 2,808'	100
0	C4 (units)	100



Sh - Blk Carb

LS - Off White, tan, micro to tan, no vis. porosity, with some brown chert

LS - Same as above with an abundance of white chalk throughout

LS - Off White. Tan, fine xtln, interparticle porosity but mostly tight, a couple pieces of pyrite

Sh - Blk

LS - Gray to Off white, fine xtln, with pin porosity, and white chalk, no show no odor

LS - Same as above, with pyrite and chert

Sh - Gray, gummy to fissile

LS - Gray, fine to medium xtln, dense, no visible porosity, pyrite inclusions

Oread - 3,073' (-1081)

LS - Off White to Tan, fine xtln, with interparticle and pinpoint porosity, No Odor, and a couple pieces of oil stain, with edge staining

LS - Tan, Off white, fine xtln, with pinpoint porosity, Mostly dense, with oil saturated rocks scattered in tray, no sfo, slight odor

LS - Off White, fine to mdm xtln, with oolitic and pinpoint porosity, GS Oil, saturated rocks, free oil when rocks broke with faint odor.

LS - Off White, tan, fine to mdm xtln, poor poristy, dense with edge staining, no show free oil, no odor

LS - Off White, Tan, Fine xtln, with some fractured porosity, mostly dense, with good oil saturation, slight odor, and Oil Droplets when rock is broke open

Heebner - 3,129' (-1137)

Sh - Black Carb.

LS - Tan, fine xtln, with pyrite, poor porosity, dense, no show

LS - Off White, Tan, fine xtln, with pinpoint porosity, mostly dense, SFO, in sample, good odor, saturated rocks

LS - Same as above

Toronto - 3,151' (-1159)

LS - Off White, tan, fine xtln, dense, with no visual porosity, a few fossils present, with edge staining, fleeting odor

Lansing - 3,170' (-1178)

LS - Bne White, fine xtln, pinpoint porosity, with some ool. porosity, mostly dense, edge staining with a few pieces of saturated, No SFO, Strong Odor, Gas Bubbles

3,187' (30) - LS - Off White to tan, fine to mdm xtln, mostly dense, with a few pinpoint porosity. Tr edge staining, No SFO, Very Faint Odor. Chert - Tan/Brown Fresh

(60) - LS - Mostly same as above, tight, with scattered chert, NO SFO, No Odor,

LS - A/A

Sh - Drk gray, gray, fissile

LS - Bne to Off White, micro to fne xtln, dense, with no visible porosity, a nice with edge staining and pyrite

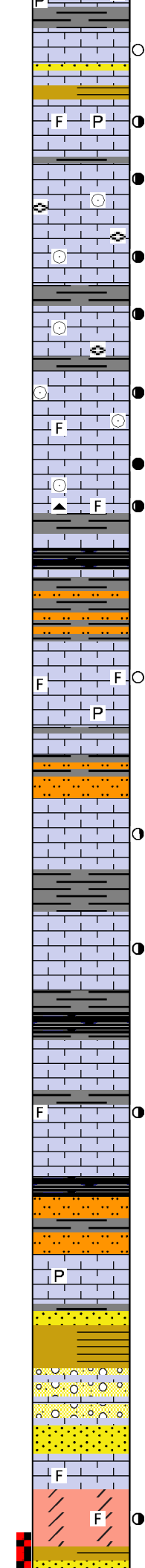
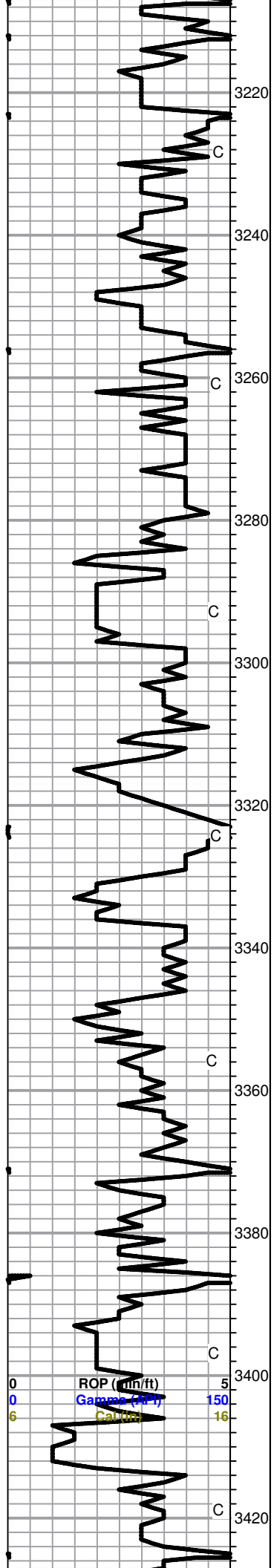
0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100

Mudco @ 3,125'
 Wt. - 8.8, Vis - 58,
 Filtrate - 5.2, Chl. -
 900, LCM - 2

DST #1 - Oread to Lansing B
 Test. Int. 3.096' to 3.187'

(15) Std Sht Trip
 CFS @ 3,187'

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100



visible porosity, a piece with edge staining and pyrite

LS - Off White, buff, fine xtn, with no visible porosity, some edge staining, SS - Clear, fine grained, well sorted, sub rounded, faint odor

LS - Off White, fine to mdm xtn, pinpoint porosity, mostly dense, with a few saturated rocks, fair odor

LS - Off Wht, mdm xtn, with pinpoint and a few fractured porosity, dense, oil saturated rocks, SFO when broke, fair odor

LS - Buff to off white, mdm xtn, vug and pinpoint porosity, dnse, with oil saturation, SFO, and good odor

LS - Buff, mdm xtn, with good interprt. porosity, SFO, oil stained rocks, good odor

LS - Off Wht, Fne xtn, interpart and vug porosity, with light oil staining, NO SFO, Good Odor

LS - Buff to Off Wht, mdm xtn, with **good vug porosity in prts, GSFO, Oil Saturation, Strong Odor**

LS - As above, with oil on top of cup. few fresh pieces of chert. Sh - Gray, brown

Sh - Black Carb

Sh/Sistne - Gray, Brown, lght gray. SltStn - fine grained, subangular, gummy

LS - Off White, gray, dense, with poor porosity, some edge stains in part, pyrite and fossils present

LS - Bne White, micro to fne grained, dense, with no visible porosity, no show. Ch - multi colored, fresh, and pyrite

SH/SltStne - Gray to Drk Gray, fissile, with sub angular qtz grains, fine,

LS - Off White to tan, micro to fine xtn, poor to pinpoint porosity, with a couple oil sat rocks, good edge staining fair odor, and skim of oil in cup

Sh - Vrs Colors gray, Brown,

LS - Off Wht, mdm xtn, with pinpoint porosity a couple micro vugs, good edge staining, SFO, oil skim, Fair Odor

Sh - Blk Carb

LS - Off White, fine xtn, dense with little porosity, and some edge staining, faint odor. Sh - Brown, Reddish

LS - As above, with more sat. samples, and pinpoint porosity, edge staining, SFO when broke, fair odor

Sh - Black

Sltstone/Shale - Gray, brown, blocky, fne grained, subrounded

LS - Tan to Gray, fne xtn, dense, with pyrite

BKC - 3,391' (-1399)

Sh - various colors of brown and gray

LS - Off White, gray, tan, fne xtn, dense, various colors of shales, siltstones

SS - Clear, Fine to mdm grained, sub rounded, well sorted, a few shows

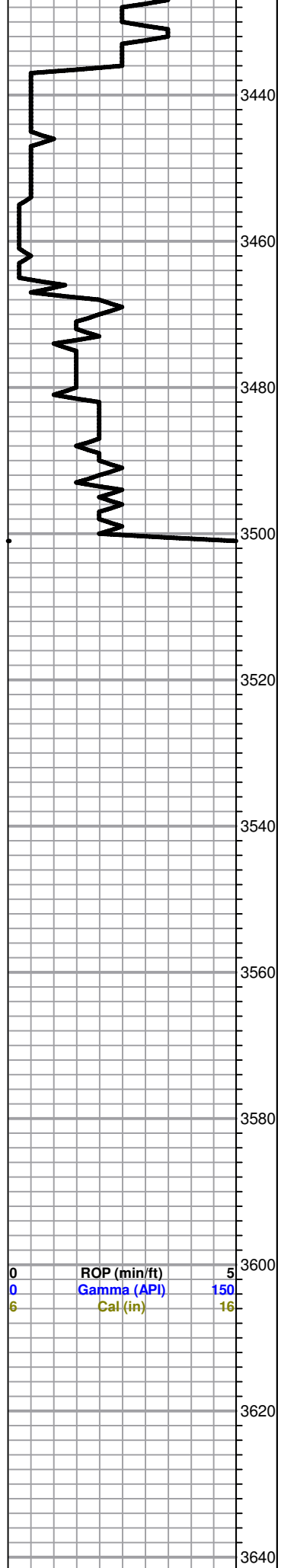
Simpson - 3,416' (-1424)

Dol - Off Wht to tan, micro xtn, with pinpoint porosity, a few shows and slight odor

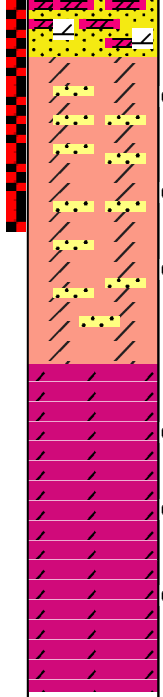
Sh - Mutlicolored, greens, browns

Mudco @ 3,275'
 Wt. - 9.1, Vis - 60,
 Filtrate - 5.4, Chl. - 900,
 LCM - 1

0	C3 (units)	100
0	C4 (units)	100
0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100



0 ROP (min/ft) 5
 0 Gamma (API) 150
 6 Cal (in) 16



SS - Clear, fine grained, well rounded, well sorted, friable

Dol - Tan to buff, fine xtl, Sandy dolomite matrix with good ool. porosity, good sfo, good odor, free oil

Dol - Same as above, almost sucrosic, more oil in sample, free floating oil

Dol- Tan, fine xtl, ool. , sandy, and some vug porosity, saturarted with good show of free oil and strong odor

Arbuckle - 3,466' (-1474)

Dol - Buff to tan, micro to fine xtl, edge staining and vugs, good stain, show free oil, good odor

Dol - Same as above dark staining, dead or low gravity oil, oil floating in tray

Dol - buff to tan, fine xtl, with few shows of oil, mostly barron, with good odor

RTD @ 3,500' @ 4:30 PM on January 6th, 2021.

LTD @ 3,498' @ 11:10 PM on Jan. 6th, 2021

DST #2 - Arbuckle
(3.422' to 3.450')

CFS @ 3.490' (30' & 60')

CFS @ 3.500' (30' & 60')

0 Total Gas (units) 100
 0 C1 (units) 100
 0 C2 (units) 100
 0 C3 (units) 100
 0 C4 (units) 100



DRILL STEM TEST REPORT

Prepared For: **Audere Est Facere, LLC**

2522 Henry Dr.
Hays, KS 67601

ATTN: Spencer Staab

Maiden Voyage #1

8-8S-18W Rooks,KS

Start Date: 2021.01.05 @ 14:28:57

End Date: 2021.01.05 @ 22:19:33

Job Ticket #: 64505 DST #: 1

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

Printed: 2021.01.07 @ 17:00:36

Audere Est Facere, LLC

8-8S-18W Rooks,KS

Maiden Voyage #1

DST # 1

Oread- LKC "B"

2021.01.05



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Audere Est Facere, LLC

8-8S-18W Rooks,KS

2522 Henry Dr.
Hays, KS 67601

Maiden Voyage #1

Job Ticket: 64505

DST#: 1

ATTN: Spencer Staab

Test Start: 2021.01.05 @ 14:28:57

GENERAL INFORMATION:

Formation: **Oread- LKC "B"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:31:48

Time Test Ended: 22:19:33

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan Lonsdale

Unit No: 73

Interval: 3096.00 ft (KB) To 3187.00 ft (KB) (TVD)

Reference Elevations: 1992.00 ft (KB)

Total Depth: 3187.00 ft (KB) (TVD)

1984.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 8.00 ft

Serial #: 6771 Inside

Press@RunDepth: 67.19 psig @ 3097.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.01.05 End Date: 2021.01.05

Last Calib.: 2021.01.05

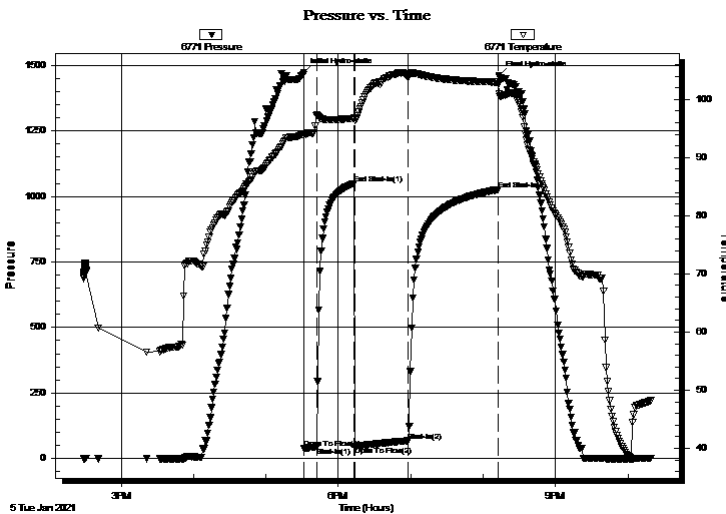
Start Time: 14:28:58 End Time: 22:19:33

Time On Btm: 2021.01.05 @ 17:31:18

Time Off Btm: 2021.01.05 @ 20:13:18

TEST COMMENT: 10- IF- Slow ly built to 1.25"
30- IS- No blow
45- FF- Slow ly built to 3.21"
75- FS- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1473.26	94.06	Initial Hydro-static
1	37.36	94.03	Open To Flow (1)
11	44.12	97.27	Shut-In(1)
42	1049.22	96.77	End Shut-In(1)
43	47.36	96.41	Open To Flow (2)
87	67.19	103.82	Shut-In(2)
162	1025.25	102.97	End Shut-In(2)
162	1461.15	100.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
110.00	WM, 45%W 55%M	1.27

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Audere Est Facere, LLC

8-8S-18W Rooks, KS

2522 Henry Dr.
Hays, KS 67601

Maiden Voyage #1

Job Ticket: 64505

DST#: 1

ATTN: Spencer Staab

Test Start: 2021.01.05 @ 14:28:57

Tool Information

Drill Pipe:	Length: 3069.00 ft	Diameter: 3.82 inches	Volume: 43.50 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 5.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3096.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	91.00 ft			
Tool Length:	116.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3072.00	
Shut In Tool	5.00			3077.00	
Hydraulic tool	5.00			3082.00	
Gap Sub	5.00			3087.00	
Packer	5.00			3092.00	25.00 Bottom Of Top Packer
Packer	4.00			3096.00	
Stubb	1.00			3097.00	
Recorder	0.00	6771	Inside	3097.00	
Recorder	0.00	8700	Outside	3097.00	
Perforations	20.00			3117.00	
Change Over Sub	1.00			3118.00	
Drill Pipe	64.00			3182.00	
Change Over Sub	1.00			3183.00	
Perforations	1.00			3184.00	
Bullnose	3.00			3187.00	91.00 Bottom Packers & Anchor

Total Tool Length: 116.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Audere Est Facere, LLC

8-8S-18W Rooks,KS

2522 Henry Dr.
Hays, KS 67601

Maiden Voyage #1

Job Ticket: 64505

DST#: 1

ATTN: Spencer Staab

Test Start: 2021.01.05 @ 14:28:57

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:

27000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
110.00	WM, 45%W 55%M	1.272

Total Length: 110.00 ft Total Volume: 1.272 bbl

Num Fluid Samples: 0

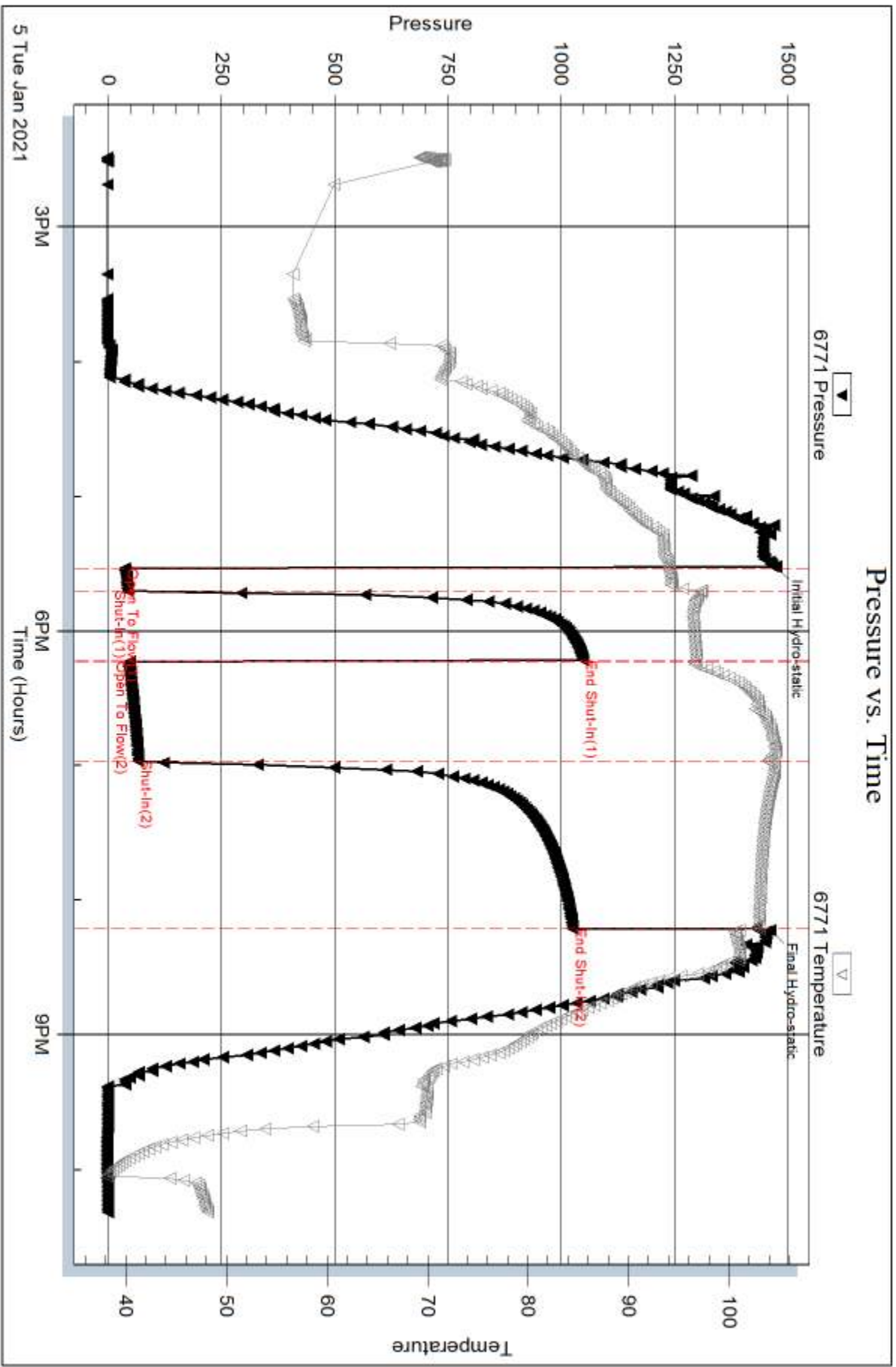
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .32@52deg

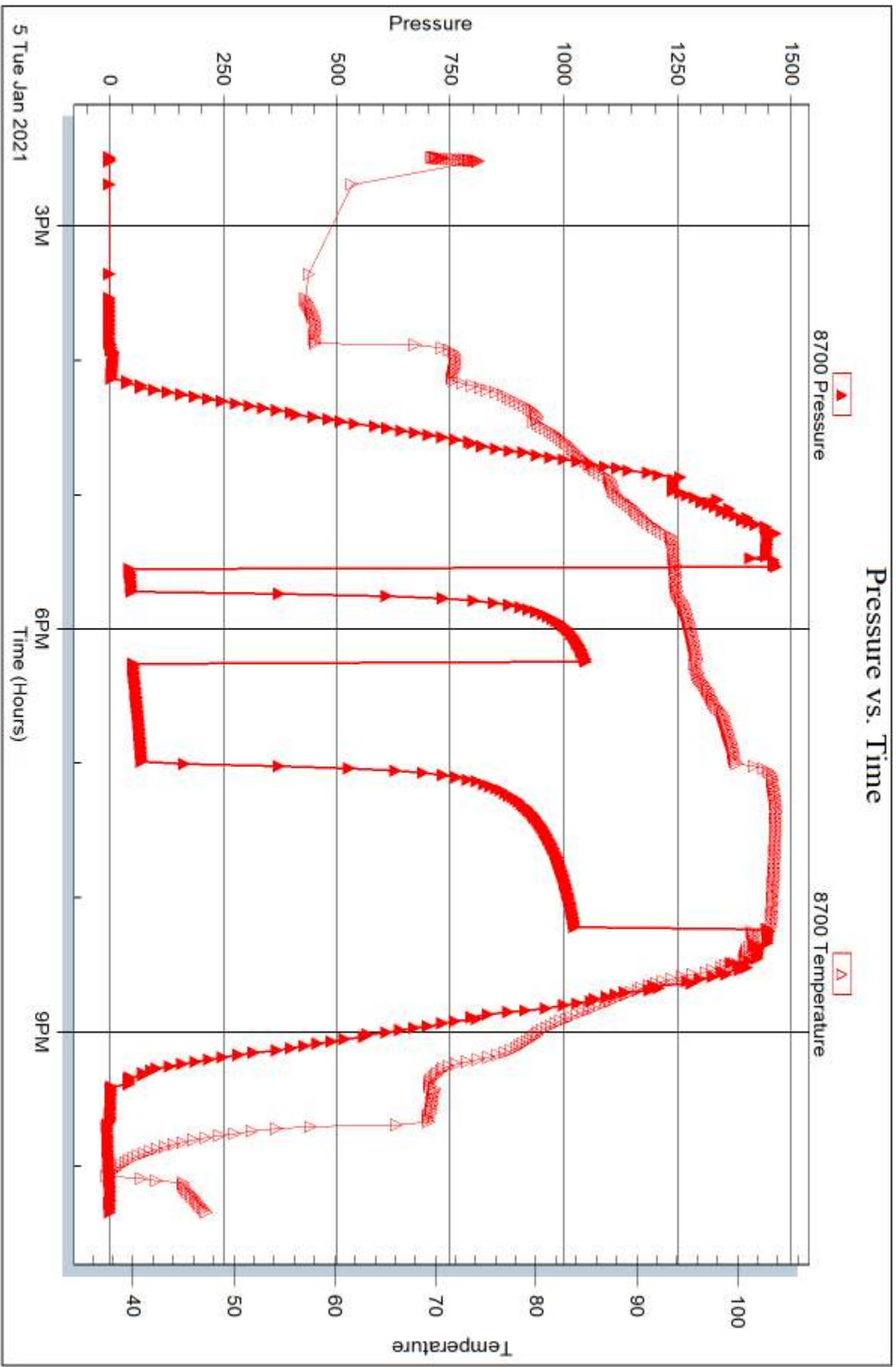


Serial #: 8700

Outside Audere Est Facere, LLC

Maiden Voyage #1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Audere Est Facere, LLC**

2522 Henry Dr.
Hays, KS 67601

ATTN: Spencer Staab

Maiden Voyage #1

8-8S-18W Rooks,KS

Start Date: 2021.01.07 @ 02:34:03

End Date: 2021.01.07 @ 10:35:09

Job Ticket #: 64506 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2021.01.07 @ 16:59:58

Audere Est Facere, LLC
8-8S-18W Rooks,KS
Maiden Voyage #1
DST # 2
Arbuckle
2021.01.07



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Audere Est Facere, LLC

8-8S-18W Rooks,KS

2522 Henry Dr.
Hays, KS 67601

Maiden Voyage #1

Job Ticket: 64506

DST#: 2

ATTN: Spencer Staab

Test Start: 2021.01.07 @ 02:34:03

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:03:54

Time Test Ended: 10:35:09

Test Type: Conventional Straddle (Reset)

Tester: Brannan Lonsdale

Unit No: 73

Interval: 3422.00 ft (KB) To 3450.00 ft (KB) (TVD)

Reference Elevations: 1992.00 ft (KB)

Total Depth: 3500.00 ft (KB) (TVD)

1984.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 6771 Inside

Press@RunDepth: 105.10 psig @ 3423.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.01.07 End Date: 2021.01.07

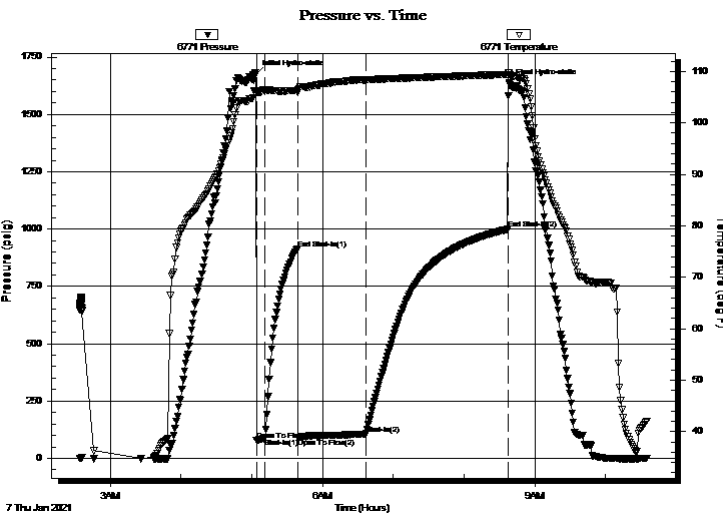
Last Calib.: 2021.01.07

Start Time: 02:34:04 End Time: 10:35:09

Time On Btm: 2021.01.07 @ 05:03:24

Time Off Btm: 2021.01.07 @ 08:38:09

TEST COMMENT: 005- IF- Slow ly built to 3.26"
030- IS- No blow
060- FF- Slow ly built to 5.80"
120- FS- No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1672.69	106.18	Initial Hydro-static
1	78.40	105.95	Open To Flow (1)
8	86.45	106.36	Shut-In(1)
36	914.06	106.31	End Shut-In(1)
36	89.45	106.36	Open To Flow (2)
94	105.10	108.37	Shut-In(2)
214	998.55	109.42	End Shut-In(2)
215	1635.65	109.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
185.00	SOCM, 10%O 90%M	2.34

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Audere Est Facere, LLC

8-8S-18W Rooks, KS

2522 Henry Dr.
Hays, KS 67601

Maiden Voyage #1

Job Ticket: 64506

DST#: 2

ATTN: Spencer Staab

Test Start: 2021.01.07 @ 02:34:03

Tool Information

Drill Pipe:	Length: 3386.00 ft	Diameter: 3.82 inches	Volume: 48.00 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3422.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	3450.00 ft			
Interval between Packers:	28.00 ft			
Tool Length:	102.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

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

Change Over Sub	1.00			3398.00	
Shut In Tool	5.00			3403.00	
Hydraulic tool	5.00			3408.00	
Gap Sub	5.00			3413.00	
Packer	5.00			3418.00	25.00 Bottom Of Top Packer
Packer	4.00			3422.00	
Stubb	1.00			3423.00	
Recorder	0.00	6771	Inside	3423.00	
Recorder	0.00	8700	Outside	3423.00	
Perforations	23.00			3446.00	
Blank Off Sub	1.00			3447.00	
Blank Spacing	3.00			3450.00	28.00 Tool Interval
Packer	1.00			3451.00	
Stubb	1.00			3452.00	
Perforations	9.00			3461.00	
Change Over Sub	1.00			3462.00	
Recorder	0.00	8367	Below	3462.00	
Drill Pipe	32.00			3494.00	
Change Over Sub	1.00			3495.00	
Perforations	1.00			3496.00	
Bullnose	3.00			3499.00	49.00 Bottom Packers & Anchor

Total Tool Length: 102.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Audere Est Facere, LLC

8-8S-18W Rooks,KS

2522 Henry Dr.
Hays, KS 67601

Maiden Voyage #1

Job Ticket: 64506

DST#: 2

ATTN: Spencer Staab

Test Start: 2021.01.07 @ 02:34:03

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbl

Water Loss: 5.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
185.00	SOCM, 10%O 90%M	2.335

Total Length: 185.00 ft Total Volume: 2.335 bbl

Num Fluid Samples: 0

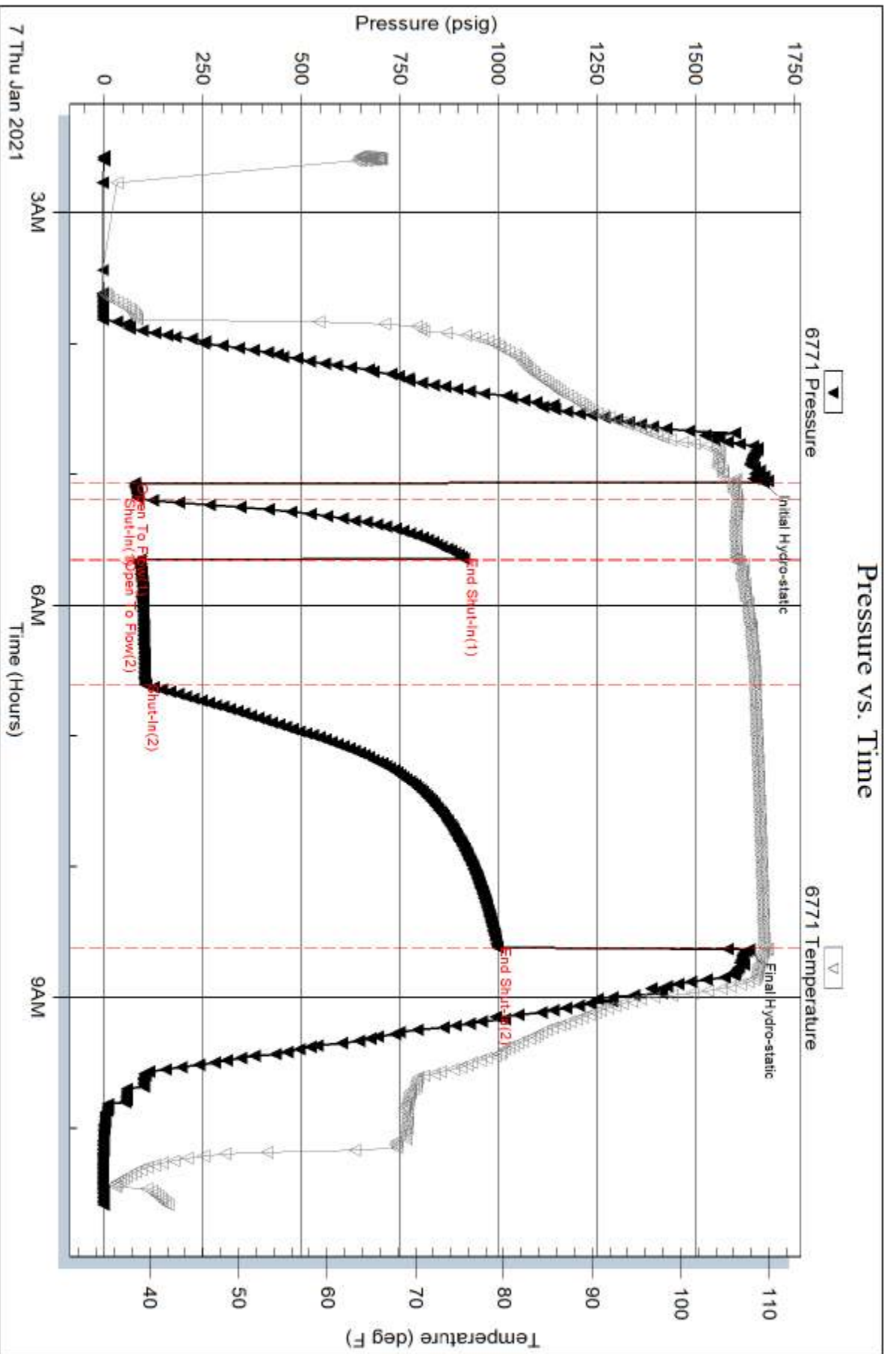
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

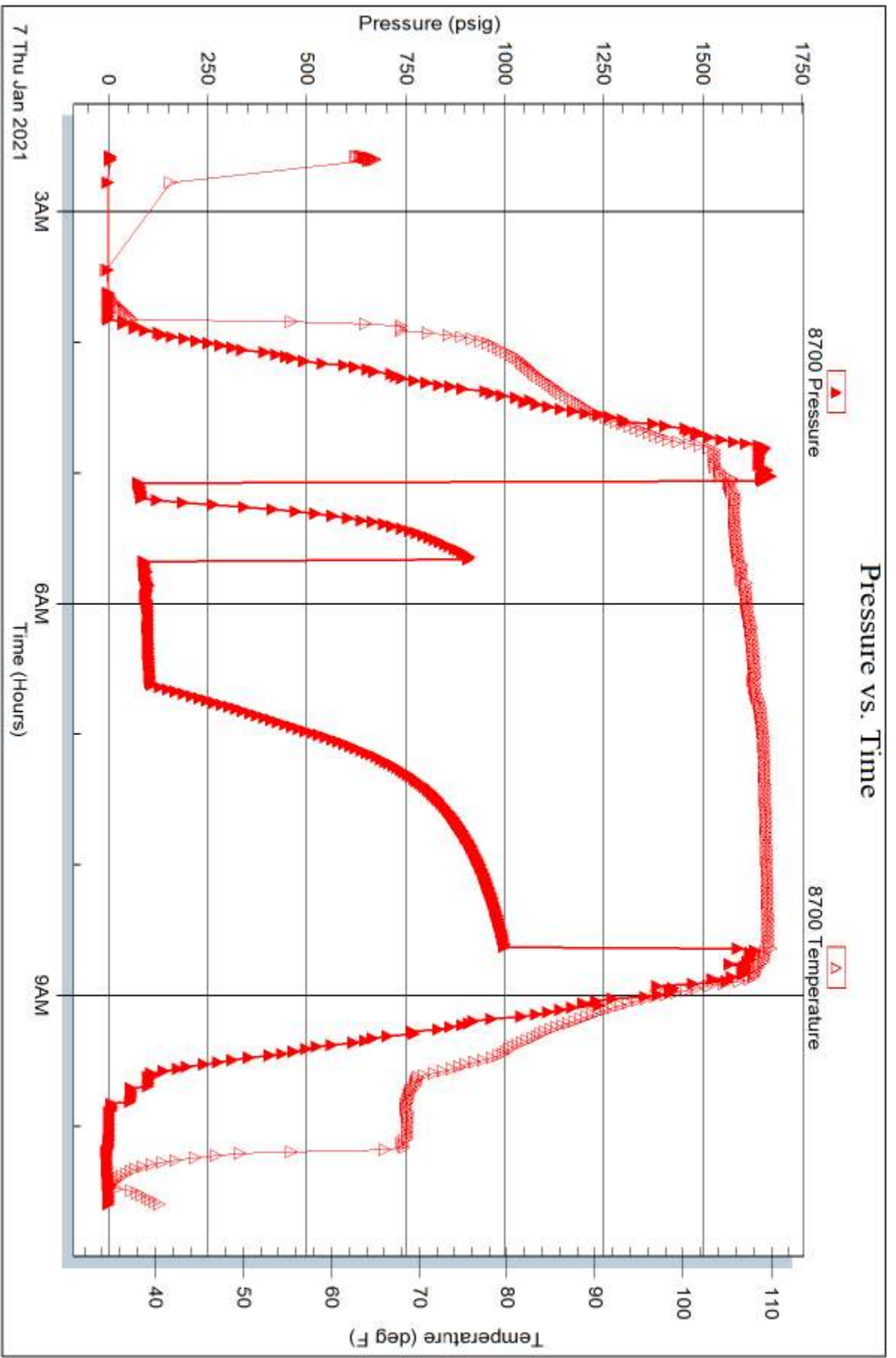


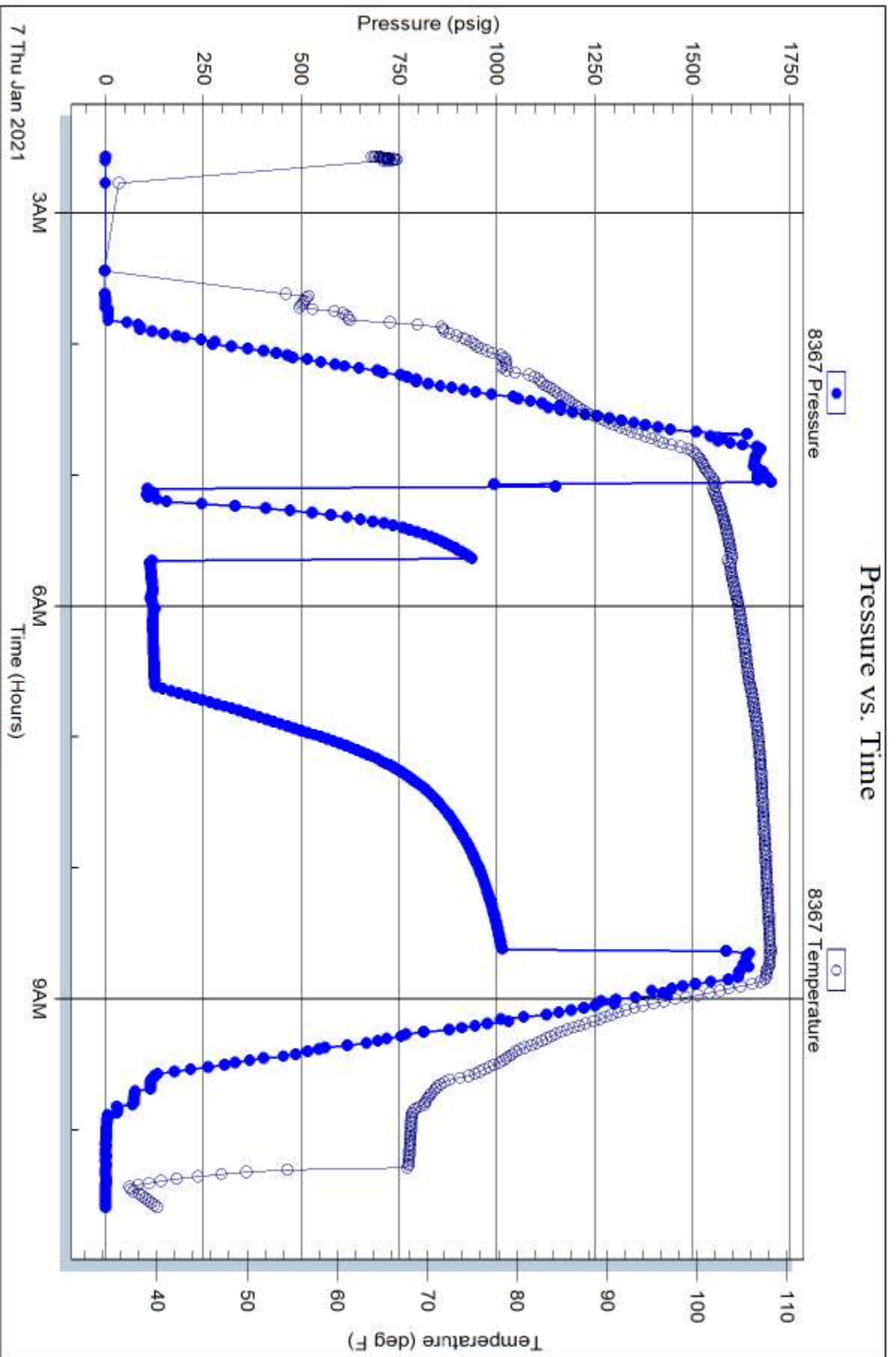
Serial #: 8700

Outside Audere Est Facere, LLC

Maiden Voyage #1

DST Test Number: 2







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64505

Well Name & No. Maiden Voyage #1 Test No. 1 Date 1/5/2021
 Company Andere Fst Facere, LLC Elevation 1992 KB 1984 GL
 Address 2522 Henry Dr. Hays, KS 67601
 Co. Rep / Geo. Spencer Staab Rig Discovery 4
 Location: Sec. 8 Twp 8 S Rge. 18 W Co. Rooks State KS

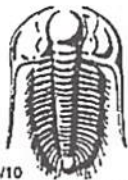
Interval Tested 3096-3187 Zone Tested Oread-LKC "B"
 Anchor Length 91' Drill Pipe Run 3069 Mud Wt. FF
 Top Packer Depth 3091 Drill Collars Run 31 Vis 58
 Bottom Packer Depth 3096 Wt. Pipe Run ————— WL 5.2
 Total Depth 3187 Chlorides 900 ppm System LCM 2nd
 Blow Description IF - slowly built to 1.25"
FSI - No blow
FF - slowly built to 3.21"
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>110</u>	<u>WM</u>			<u>45</u>	<u>55</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 110' BHT 103° Gravity ————— API RW .32 @ 52 °F Chlorides 27,000 ppm
 (A) Initial Hydrostatic 1473 Test 1200 T-On Location 1357
 (B) First Initial Flow 37 Jars ————— T-Started 1429
 (C) First Final Flow 44 Safety Joint ————— T-Open 1733
 (D) Initial Shut-In 1049 Circ Sub ————— T-Pulled 2013
 (E) Second Initial Flow 47 Hourly Standby ————— T-Out 2221
 (F) Second Final Flow 67 Mileage PORT 80 Comments —————
 (G) Final Shut-In 1025 Sampler ————— EM Tool 350 NS
 (H) Final Hydrostatic 1461 Straddle ————— Ruined Shale Packer —————
 Shale Packer ————— Ruined Packer —————
 Extra Packer ————— Extra Copies —————
 Initial Open 10 Extra Recorder ————— Sub Total 0
 Initial Shut-In 30 Day Standby ————— Total 1280
 Final Flow 45 Accessibility ————— MP/DST Disc't —————
 Final Shut-In 75 Sub Total 1280

Approved By _____ Our Representative Brian Condale

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64506

Well Name & No. Maiden Voyage #1 Test No. 2 Date 1/7/2021
 Company Audere Fgt Pacere, LLC Elevation 1992 KB 1984 GL
 Address 2522 Henry Dr. Hays, KS 67601
 Co. Rep / Geo. Spencer Staab Rig Discovery 4
 Location: Sec. 8 Twp 8 S Rge. 18 W Co. Rooks State KS

Interval Tested 3422-3450 Zone Tested Arbuckle
 Anchor Length 28' tail: 50' Drill Pipe Run 3386 Mud Wt. 9.11
 Top Packer Depth 3417-3422 Drill Collars Run 31 Vis 60
 Bottom Packer Depth 3450 Wt. Pipe Run --- WL 5.4
 Total Depth 3500 Chlorides 900 ppm System LCM [#]
 Blow Description IF - Slowly built to 3.26"
ISI - No blow
FF - Slowly built to 5.80"
FST - No blow

Rec	Feet of	%gas	%oil	%water	%mud
375	SOCM		10		90

Rec Total 375' BHT 109° Gravity 38 API RW ---@ --- °F Chlorides --- ppm
 (A) Initial Hydrostatic 1673 Test 1200 T-On Location 0146
 (B) First Initial Flow 28 Jars --- T-Started 0234
 (C) First Final Flow 86 Safety Joint --- T-Open 0505
 (D) Initial Shut-In 914 Circ Sub --- T-Pulled 0837
 (E) Second Initial Flow 89 Hourly Standby --- T-Out 1034
 (F) Second Final Flow 105 Mileage FORT 80 Comments ---
 (G) Final Shut-In 999 Sampler --- EM Tool 350
 (H) Final Hydrostatic 1636 Straddle 600 Ruined Shale Packer ---
 Shale Packer 250 Ruined Packer ---
 Extra Packer --- Extra Copies ---
 Initial Open 065 Extra Recorder --- Sub Total 0
 Initial Shut-In 030 Day Standby --- Total 2130
 Final Flow 060 Accessibility --- MP/DST Disc't ---
 Final Shut-In 120 Sub Total 2130

Approved By _____ Our Representative Brannan Lonsdale
 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.

Conservation Division
266 N. Main St., Ste. 220
Wichita, KS 67202-1513



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Andrew J. French, Chairperson
Dwight D. Keen, Commissioner
Susan K. Duffy, Commissioner

Laura Kelly, Governor

April 21, 2021

SJ Staab
Audere Est Facere, LLC
2522 HENRY DRIVE
HAYS, KS 67601-2238

Re: ACO-1
API 15-163-24417-00-00
MAIDEN VOYAGE 1
SW/4 Sec.08-08S-18W
Rooks County, Kansas

Dear SJ Staab:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 12/15/2020 and the ACO-1 was received on April 21, 2021 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department