

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 0498  
 LOCATION Victoria, KS  
 FOREMAN Tom Williams

## FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
1-19-22	5612	B-1000-21-22-6 Amy Marie 2	5	4	12 W	Deshome

CUSTOMER  
Bruce Oil LLC

MAILING ADDRESS  
1704 LINDSEY RD

CITY  
McPherson

STATE  
KS

ZIP CODE  
67460

TRUCK #	DRIVER	TRUCK #	DRIVER
101	Tom W		
22103	Jack T		

JOB TYPE water plug HOLE SIZE \_\_\_\_\_ HOLE DEPTH \_\_\_\_\_ CASING SIZE & WEIGHT \_\_\_\_\_  
 CASING DEPTH \_\_\_\_\_ DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 11.7 SLURRY VOL 2.3 WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING \_\_\_\_\_  
 DISPLACEMENT \_\_\_\_\_ DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: safety meeting & rig up at production drilling. Plug well as ordered

1	SSD'	50 sacks
2	SSD'	100 sacks
3	SSD'	50 sacks
	CEMENT	10 sacks
	RH	20 sacks
	MH	15 sacks

Thanks Tom & Jack

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
PL002	1	PUMP CHARGE <u>Rosary plug</u>	\$1150 <sup>00</sup>	\$1150 <sup>00</sup>
MO01	55	MILEAGE	\$650	\$35750
MCA2	11.35 tons	Ton Mileage delivery	\$934 <sup>38</sup>	\$934 <sup>38</sup>
CB010	255 sacks	60/40 490 g/gal Vef 5/10	\$1475	\$4271 <sup>25</sup>
FL055	1	8 3/4 water plug	\$165 <sup>00</sup>	\$165 <sup>00</sup>
			sub total	\$4880 <sup>13</sup>
			less 20% disc.	\$1374 <sup>02</sup>
			sub total	\$5504 <sup>11</sup>
			SALES TAX	\$230.69
			ESTIMATED TOTAL	\$5734.80

AUTHORIZATION [Signature] TITLE 77 DATE 1-15-22

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.

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 2644

Date	12-30-21	Sec.	5	Twp.	9	Range	12	County	Osborne	State	KS	On Location		Finish	5:45 PM
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Lease **Anne Marie** Location **Luray - 13N to 180th Rd, 1/2E**  
Well No. **#2** Owner **5/5 side**

Contractor **Murfin #16** To Quality Oilwell Cementing, Inc.  
Type Job **Surface** You are hereby requested to rent cementing equipment and furnish  
Hole Size **12 1/4"** T.D. **216'** Charge To **Bruce oil**  
Csg. **8 5/8"** Depth **211'** Street

Tbg. Size Depth City State  
Tool Depth

Cement Left in Csg. **15'** Shoe Joint **15'** The above was done to satisfaction and supervision of owner agent or contractor.

Meas Line Displace **8LS 2% Gel** Cement Amount Ordered **150 ~~lb~~ 80/20 3% CC**

EQUIPMENT			
Pumptrk	16	No. Cementer Helper <b>David</b>	Common <b>120</b>
Bulktrk	14	No. Driver <b>Dougy</b>	Poz. Mix <b>30</b>
Bulktrk	P.U.	No. Driver <b>Rick</b>	Gel. <b>3</b>
			Calcium <b>6</b>

JOB SERVICES & REMARKS		
Remarks:	<b>Cement did Circulate</b>	Hulls
Rat Hole		Salt
Mouse Hole		Flowseal
Centralizers		Kol-Seal
Baskets		Mud CLR 48
DV or Port Collar		CFL-117 or CD110 CAF 38
		Sand
		Handling <b>159</b>
		Mileage

FLOAT EQUIPMENT	
	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down

Pumptrk Charge **Surface**  
Mileage **36**

Signature **[Signature]** Thanks **[Signature]**  
Tax  
Discount  
Total Charge

# GEOLOGIST'S REPORT

## DRILLING TIME AND SAMPLE LOG

BRUCE OIL COMPANY, L.L.C

ANNE MARIE #2

5-9-12W

515' FNL & 2300' FEL

OSBORNE COUNTY, KANSAS

API: 15-141-20491-00-00

DRILLING CONTR.: MURFIN RIG #16

SPUD: 12-30-2021 COMP: 1-15-2022

MUD UP: 2200' TYPE MUD: CHEM.

DRILL TIME: 2200' to RTD

RTD: 2964' LTD: 2936'

DRILLED TO 2964' AFTER LOG

SAMPLES SAVED: 2300' to RTD

GEOLOGIST: ROBERT J. PETERSEN

### ELEVATION

KB: 1688

GL: 1683

LOG MEASURED

FROM: KB

### SURFACE CASING

24# 8 5/8" SET @211'

Cem. W/160SX

80/20 3%cc 2% gel

### PRODUCTION CASING

D&A

### WELL LOG SURVEYS

DIL/CDL/MICRO

### ELECTRIC LOG TOPS

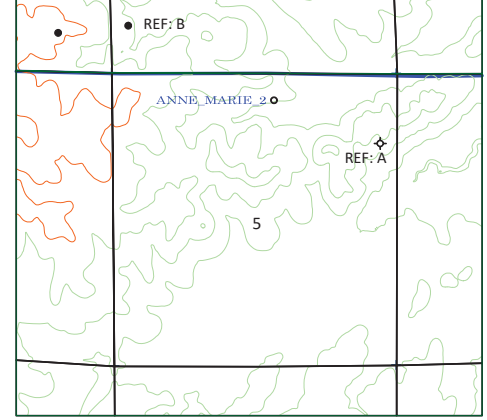
FORMATION	DEPTH	DATUM	POS A	POS B
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### LOCATION MAP



ANHY	832	+856	0	-14
BASE_ANHY	863	+825	+1	-10
STOTLER	2401	-713	0	0
TARKIO SD	2427	-739	-1	-1
TOPEKA	2610	-922	+5	+2
QUEEN HILL	2802	-1114	+3	0
HEEBNER	2875	-1187	+3	+2
TORONTO	2898	-1210	+3	+3
LANSING*	2926	-1238	0	+4
TD	2936	-1248	—	—

\* LKC SAMPLE TOP



## REFERENCE WELL

REF. WELL A  
DREILING OIL, INC  
ANNE MARIE #1  
1320' FNL & 300' FEL  
5-9-12W

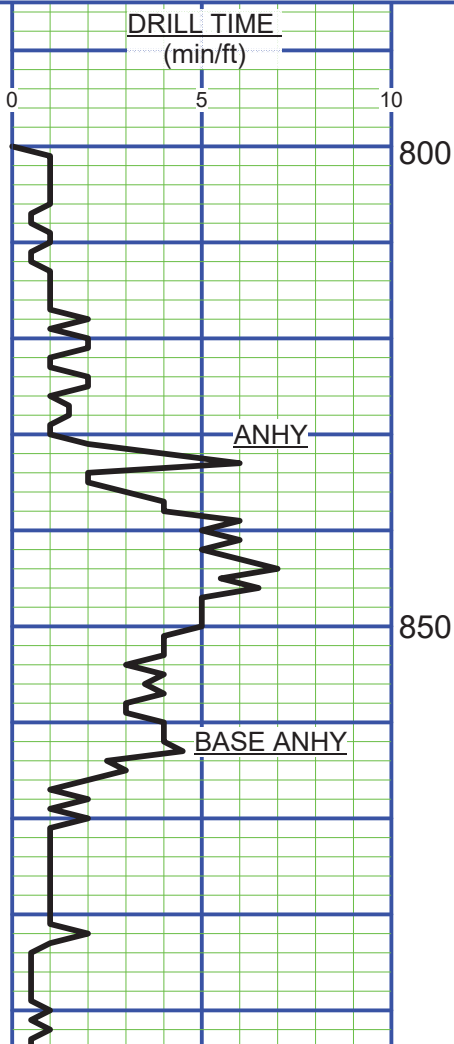
REF. WELL B  
DREILING OIL, INC  
DIXON #1-32  
880' FSL & 330' FWL  
32-8-12W

## REMARKS

THE OPERATOR PLUGGED AND ABANDONED THIS TEST.

## DAILY REPORT @7:00 A.M.

12-29-21 MIRU  
12-30-21 SPUD SET SURF /PD 5:45PM  
12-31-21 SHUT DOWN FOR WEATHER  
01-10-22 START UP  
01-11-22 1030' DRILLING  
01-12-22 2110' DRILLING  
01-13-22 2635' DRILLING  
01-14-22 2936' LOGGING  
01-15-22 2964' DST #2  
01-16-22 2964' PLUGGED



900

DRILL TIME  
(min/ft)

0 5 10

2200

MORGAN MUD CHECK 2222'  
VIS 93/ WT 8.6/ WL 6.4  
CHL 1,300/ LCM 0#

2250

SAMPLE DESCRIPTION

2300

SH; Gray, calc/LS; Tan/brown, dense, foss, chalky (2310)

SH; Gray/dark gray, calc +LS; Tan, dense, foss (2320)

SH; Gray/olive, sandy + LS; Tan, dense (2330)

SH; Gray, sandy tr SD; Tan/gray, calc, ang, tr dead oil fl, + LS; Tan/brown dense, ool (2340)

2350

SH; Gray, sandy, blocky + LS; Cream/gray, mottled in part, dense, chaky (2350-2360)

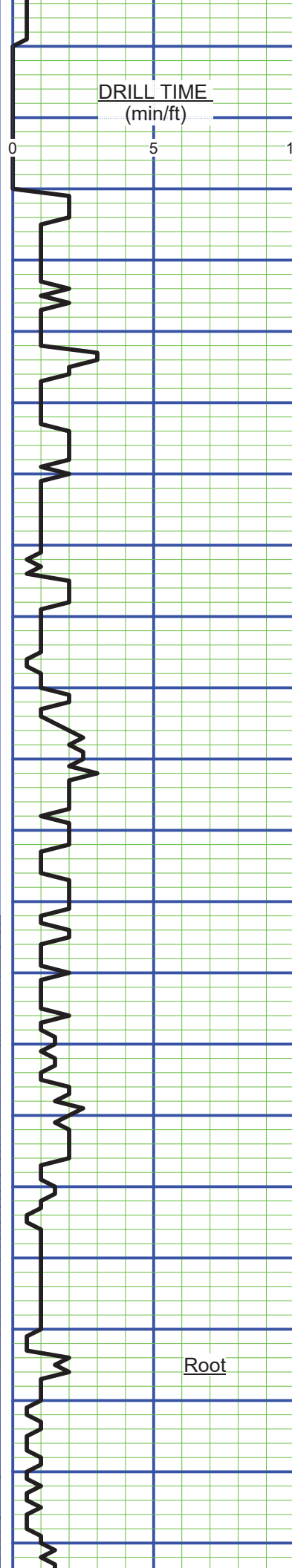
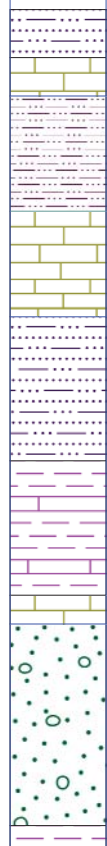
SH; Gray, calc, blocky, sandy + LS; Tan/cream, dense, foss (2370)

Root

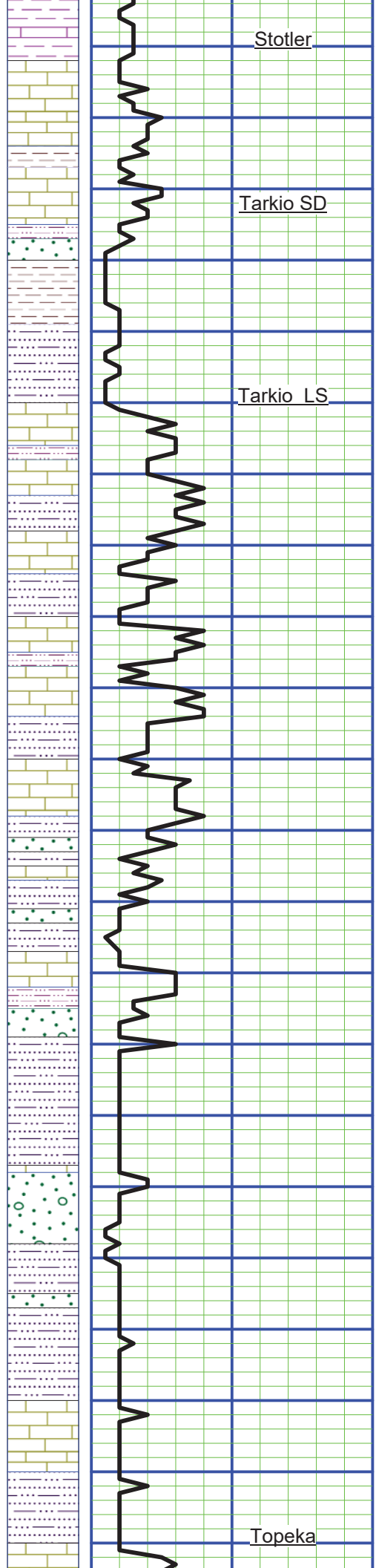
LS: Gray/brown, dense, foss, tr dead stain + SD; Gray, calc + SH; Gray (2380)

SD; Gray, calc, mica, tr dead oil fl + SH; Gray (2380-2390)

SD; Gray, mic + SH; Gray (2400)







Stotler 2400

SH; Gray, sandy + LS; Tan, dense, foss, cherty (2410)

SH; Gray (2420)

LS; Tan/gray, mottled, dense, foss (2420)

SH; Gray, soft, sandy (2430)

Tarkio SD

LS; Cream/tan, dense, foss + SH; Gray (2440)

SH; Gray, sandy, calc + SD; Blue gray, friable (2450/30-45") (plugged bit-poor samples )

Tarkio LS 2450

LS; Gray/tan, dense, foss, chalky (2460)

Ls; Cream/gray, dense, foss/ool, chalky + SH; gray (2470)

LS; Tan/gray, dense, foss,arg, tr dead stain + SH; Gray (2480)

SD; Bluish-gray, fine grained, ang, sfo (lt brown), no odor (2490)

● LS; Cream/tan, fine crystalline to dense, foss, ppt por,vssfo, no odor (2490)

LS; Cream/tan/gray, dense, arg, chalky, tr stain (2500)

LS; Gray, dense, chalky (2510)

2500

LS; Cream/dark gray mottle, dense, sl dol, foss, tr ppt por, tr stain + SH; Gray, sandy (vfg) (2510/15) (2510/30")

LS;Tan, dense, very fine crystalline, chalky, tr stain (2520)

●

LS; Gray, very fine crystalline, sandy, sl chalky + SH; Gray, blue-gray, sandy + SD; Gray, fine grained, ang, friable, vssfo (lt brown), no odor(poor sample/repeat?) (2530)

SH; Gray/dark gray, sandy, tr dead oil flakes +LS; Cream/tan, very fine crystalline, foss, chalky (2540)

SH; Gray, silty, sandy (very fine grained) + LS; Cream/gray, mottled in part, chalky (2550-2560)

SH; Gray, silty + SD; Gray, fine grained, ang, mic, tr dead oil fl (2570)

2550

SH; Gray, silty, pyritic +LS; Cream/gray/black, mottled, dense, ool, chalky (2580)

SH;Gray, silty, sandy + SH; Dark gray + LS: Gray, dense, arg, chalky (2590-2600)

●

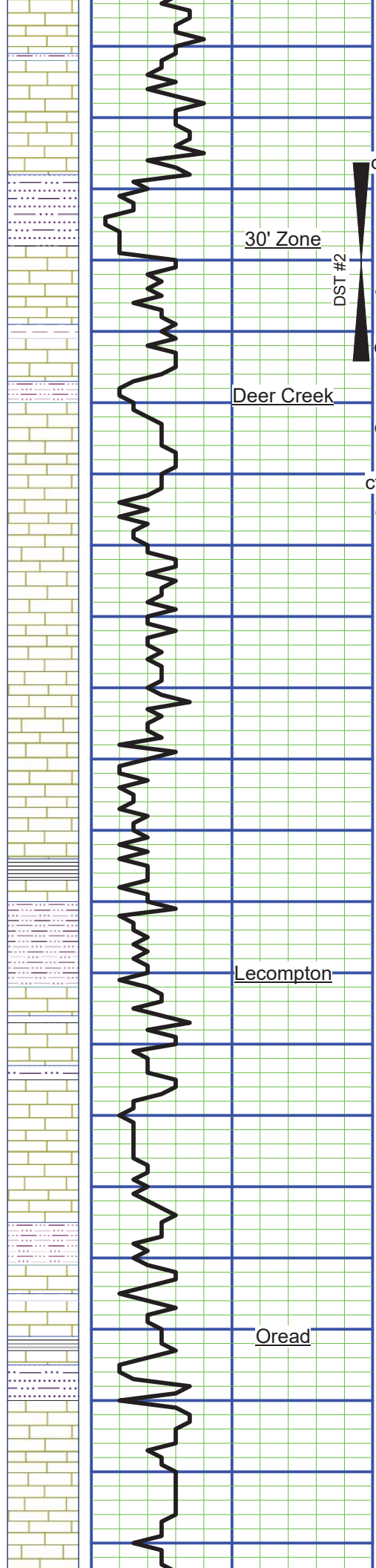
LS; Tan, very fine crystalline, sl foss, med stain, sfo, no odor tr SD; gray, fine grained, ang, friable, vssfo (repeat?)(2610)

2600

SH; Gray, silty-sandy, (2620)

Topeka

DST #2 2636-2664'  
 IF- WEAK SURF BLOW,  
 BUILT TO 1/4 INCH  
 FF- WEAK SURF BLOW  
 NO BLOW BACK  
 RECOVERED: 10' WCM 95%M 5%W 0.05  
 SIP: 727-706#  
 FP: 19-23/26-28#  
 HP: 1297-1264#  
 BHT: 87F



cfs

LS; Cream/tan/lt gray, fine crystalline, foss, chalky, sl dol (2630)

LS; Tan, fine crystalline, to dense, foss, poor ppt por, spot stain (2635)

LS; Cream/gray, mottled, very fine crystalline to dense, chalky (2635/15-45")

SHORT TRIP 15 STANDS

LS; Cream/gray/dark gray, mottled, ool/foss, chalky + SH; Gray (2640-2650)

SH; Gray, silty-sandy (2662)

30' Zone

2650

DST #2

LS; Cream/gray/tan, fine crystalline, sl dolo, foss, chalky, spot stain, sfo (brown) (2662/15")

LS; Cream/gray, fine crystalline, sl dolo, cherty (cream/dark gray (2662/30")+SH: Dark gray (2662/45")

SH; Gray/dark gray +SD; Clear, ang, friable (2670)

MORGAN MUD CHECK 2675'  
VIS 69/WL 8.9/ 4 WL 7.6.  
CHL 5.600/LCM 0#

LS; Cream/gray mottled, fine crystalline, foss, chalky (2680)

Deer Creek

cfs

LS; Tan, very fine crystalline, foss, tr poor ppt moldic por, sfo, faint odor (2680/15")

LS; Cream/tan/gray, very fine crystalline to dense, chalky, tr stain (2680/30")

SH; Gray, silty (2690)

cfs

LS; Cream/tan, very fine crystalline, foss, chalky, tr moldic por, sfo odor, brown sat (2700)

LS; Gray, fine crystalline, foss, chalky/mealy, tr dead oil flakes + SH; Gray (2710)

2700

LS; Cream/gray/tan, fine crystalline, foss, chalky, tr spot stain + SH; Gray, silty (2720)

LS; Tan/gray, fine crystalline, foss, chalky, tr stain, ssdo (2730)

LS; Cream/gray, dense, foss, chalky, mealy, stain, ssdo (2740)

SH; Black (2750)

SH; Gray, silty, sandy (2750)

Lecompton

2750

LS; Cream/tan, fine crystalline, ool-granular, chalky, tr lt brown stain (2760)

LS; Cream/gray, fine crystalline, foss, sl cherty, chalky, fair moldic por, sfo, fair odor, even sat (2770)

LS; Cream/lt gray, very fine crystalline, foss, chalky + SH; Gray/dark gray (2780)

LS; Cream/tan, fine crystalline, foss, chalky, tr chert incl, poor moldic por, stain, nsfo (2790)

SH; Gray, silty (2800)

LS; Cream/tan, fine crystalline, foss, chalky (2800)

LS; Cream/gray, fine crystalline, sl dolo, chalky, mealy + Chert; Dark gray, ang to blocky (2810)

Oread

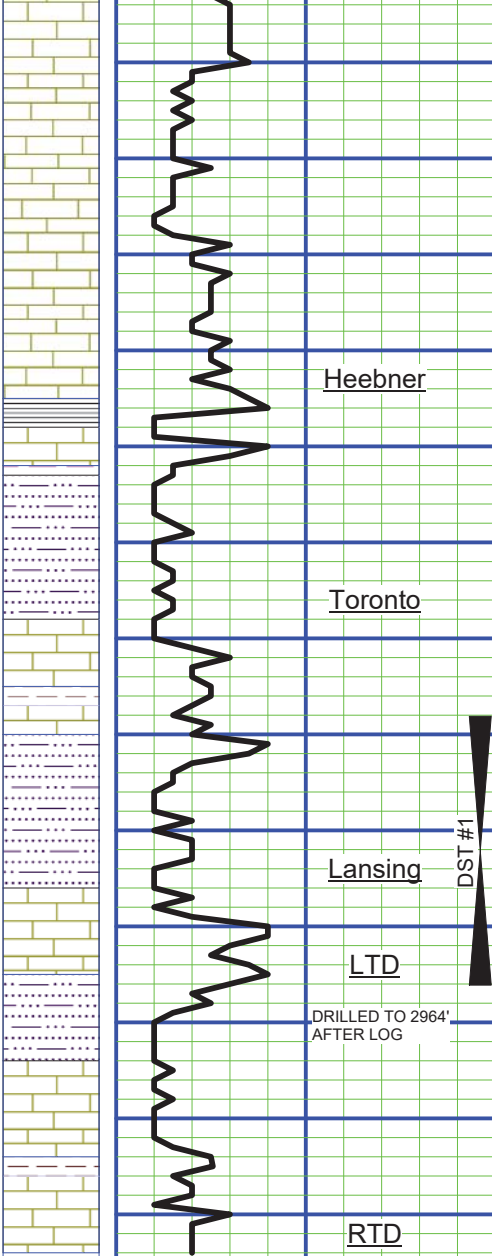
2800

SH; Black (2810)

LS; Cream/gray, fine crystalline, foss, sl dolo, chalky, cherty (cream/ang) + SH; Gray/dark gray (2820)

LS; Cream/gray, fine crystalline, foss, chalky, cherty (2830)

LS; Cream/gray/tan, fine crystalline, foss, sl dolo, chalky (plugged bit)(2840)



LS; Cream/gray mottled, loss w/shale incl + LS; Cream/white, very fine crystalline to dense, chalky (2850)

2850

LS; Cream/gray/brown, fine crystalline to dense, foss, chalky (2860)

LS: Cream/gray, mottled in part, foss, cherty (blocky/cream/gray mottled) (2870)

LS: Cream, fine crystalline, foss, poor moldic por w/spot stain (2880)

Heebner

SH; Black ( tr 2890)

SH; Red/gray, silty, sandy (2900)

Toronto

2900

LS; Gray, fine crystalline, foss, sl dolo, tr chert (2910)

LS; Cream, fine crystalline to dense, foss, cherty (tl/white) (2910/15-30")

SH; Dark gray (2910/45")

**2910' SHORT TRIP 15 STANDS**

SH; Red/gray (2920)

**MORGAN MUD CHECK 2935'**  
**VIS 75/WT 9.1/ 4 WL 8.4.**  
**CHL 9,800/LCM 0#**

Lansing DST #1

LS; Cream, fine crystalline, foss/ool-granular in part, cherty (tl/brown/ang) fair intercrystalline por/some fair moldic por, gsfo, good odor, amber sat on dry (2936/30")

LS; Cream, fine crystalline to dense, foss, chert, decrease stain/sfo (2936/45")

SH; Red/gray (2936/45")

LTD

DRILLED TO 2964' AFTER LOG

2950

LS; Cream/gray, very fine crystalline to dense + LS; Gray, mottled, fine crystalline, foss, cherty, abund pyrite, chalky (2960)

LS; Gray, fine crystalline ool, tr poor ppt por, tr stain, vssfo, no odor, cherty (2964/15")

RTD

LS; Cream/gray, fine crystalline, foss, chert (Orange) + SH; Gray (2964/45")

**LOST FLUID  
 ADDED MUD  
 LCM**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Bruce Oil Company LLC  
1704 Limestone Rd, McPherson, KS 67460  
ATTN: Bob Peterson

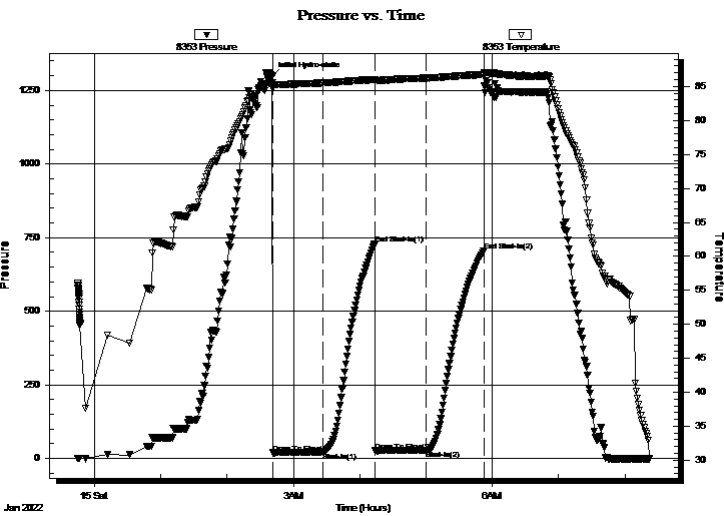
**5-9s-12w Osborne, KS**  
**Anne Marie #2**  
Job Ticket: 68566 **DST#: 2**  
Test Start: 2022.01.14 @ 23:45:00

## GENERAL INFORMATION:

Formation: **Topeka**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 02:41:30  
Time Test Ended: 08:23:00  
Interval: **2636.00 ft (KB) To 2664.00 ft (KB) (TVD)**  
Total Depth: 2964.00 ft (KB) (TVD)  
Hole Diameter: 7.87 inches Hole Condition: Fair  
Test Type: Conventional Straddle (Reset)  
Tester: Nathan Aneas  
Unit No: 71  
Reference Elevations: 1688.00 ft (KB)  
1683.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 8353 Inside**  
Press@RunDepth: 28.47 psig @ 2637.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2022.01.14 End Date: 2022.01.15 Last Calib.: 2022.01.15  
Start Time: 23:45:01 End Time: 08:23:00 Time On Btm: 2022.01.15 @ 02:40:45  
Time Off Btm: 2022.01.15 @ 05:53:00

TEST COMMENT: 45:IF- Weak surface blow , blow built to 1/4 inch  
45:IS- No blow back  
45:FF- Weak surface blow  
45:FS- No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1297.40	85.51	Initial Hydro-static
1	19.23	85.24	Open To Flow (1)
47	22.70	85.52	Shut-In(1)
93	727.21	86.01	End Shut-In(1)
94	26.13	85.85	Open To Flow (2)
140	28.47	86.23	Shut-In(2)
192	705.76	86.76	End Shut-In(2)
193	1265.16	87.06	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	WCM 95%M 5%W	0.05

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Bruce Oil Company LLC

5-9s-12w Osborne, KS

1704 Limestone Rd, McPherson, KS 67460

**Anne Marie #2**

Job Ticket: 68566

**DST#: 2**

ATTN: Bob Peterson

Test Start: 2022.01.14 @ 23:45:00

## GENERAL INFORMATION:

Formation: **Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:41:30

Time Test Ended: 08:23:00

**Interval: 2636.00 ft (KB) To 2664.00 ft (KB) (TVD)**

Total Depth: 2964.00 ft (KB) (TVD)

Hole Diameter: 7.87 inches Hole Condition: Fair

Test Type: Conventional Straddle (Reset)

Tester: Nathan Aneas

Unit No: 71

Reference Elevations: 1688.00 ft (KB)

1683.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 8646 Below (Straddle)**

Press@RunDepth: psig @ 2669.00 ft (KB)

Start Date: 2022.01.14

End Date:

2022.01.15

Start Time: 23:45:01

End Time:

08:22:15

Capacity: 8000.00 psig

Last Calib.: 2022.01.15

Time On Btm:

Time Off Btm:

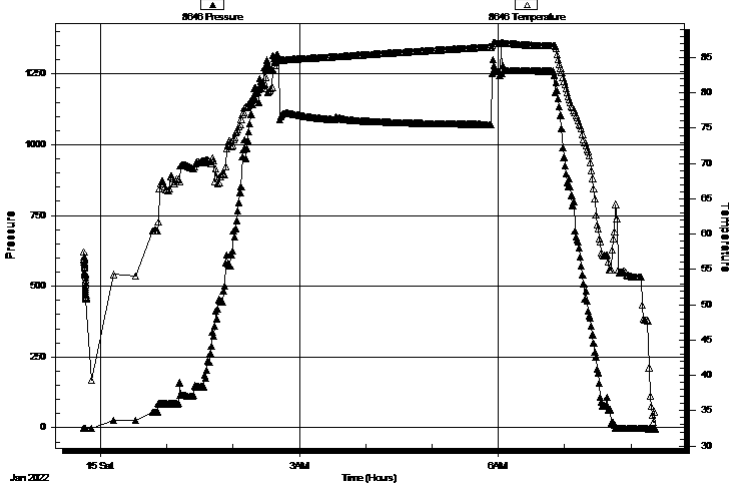
TEST COMMENT: 45:IF- Weak surface blow , blow built to 1/4 inch

45:IS- No blow back

45:FF- Weak surface blow

45:FS- No blow back

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	WCM 95%M 5%W	0.05

Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Bruce Oil Company LLC  
1704 Limestone Rd, McPherson, KS 67460  
ATTN: Bob Peterson

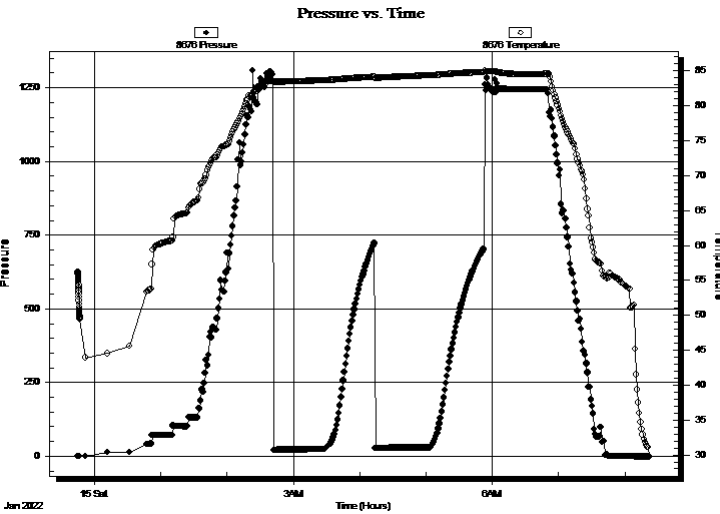
**5-9s-12w Osborne, KS**  
**Anne Marie #2**  
Job Ticket: 68566 **DST#: 2**  
Test Start: 2022.01.14 @ 23:45:00

## GENERAL INFORMATION:

Formation: **Topeka**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 02:41:30  
Time Test Ended: 08:23:00  
Interval: **2636.00 ft (KB) To 2664.00 ft (KB) (TVD)**  
Total Depth: 2964.00 ft (KB) (TVD)  
Hole Diameter: 7.87 inches Hole Condition: Fair  
Test Type: Conventional Straddle (Reset)  
Tester: Nathan Aneas  
Unit No: 71  
Reference Elevations: 1688.00 ft (KB)  
1683.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 8676 Outside**  
Press@RunDepth: psig @ 2637.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2022.01.14 End Date: 2022.01.15 Last Calib.: 2022.01.15  
Start Time: 23:45:01 End Time: 08:22:30 Time On Btm:  
Time Off Btm:

**TEST COMMENT:** 45:IF- Weak surface blow , blow built to 1/4 inch  
45:IS- No blow back  
45:FF- Weak surface blow  
45:FS- No blow back



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	WCM 95%M 5%W	0.05

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Bruce Oil Company LLC

**5-9s-12w Osborne, KS**

1704 Limestone Rd, McPherson, KS 67460

**Anne Marie #2**

Job Ticket: 68566

**DST#: 2**

ATTN: Bob Peterson

Test Start: 2022.01.14 @ 23:45:00

## 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: 75.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9800.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	WCM 95%M 5%W	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

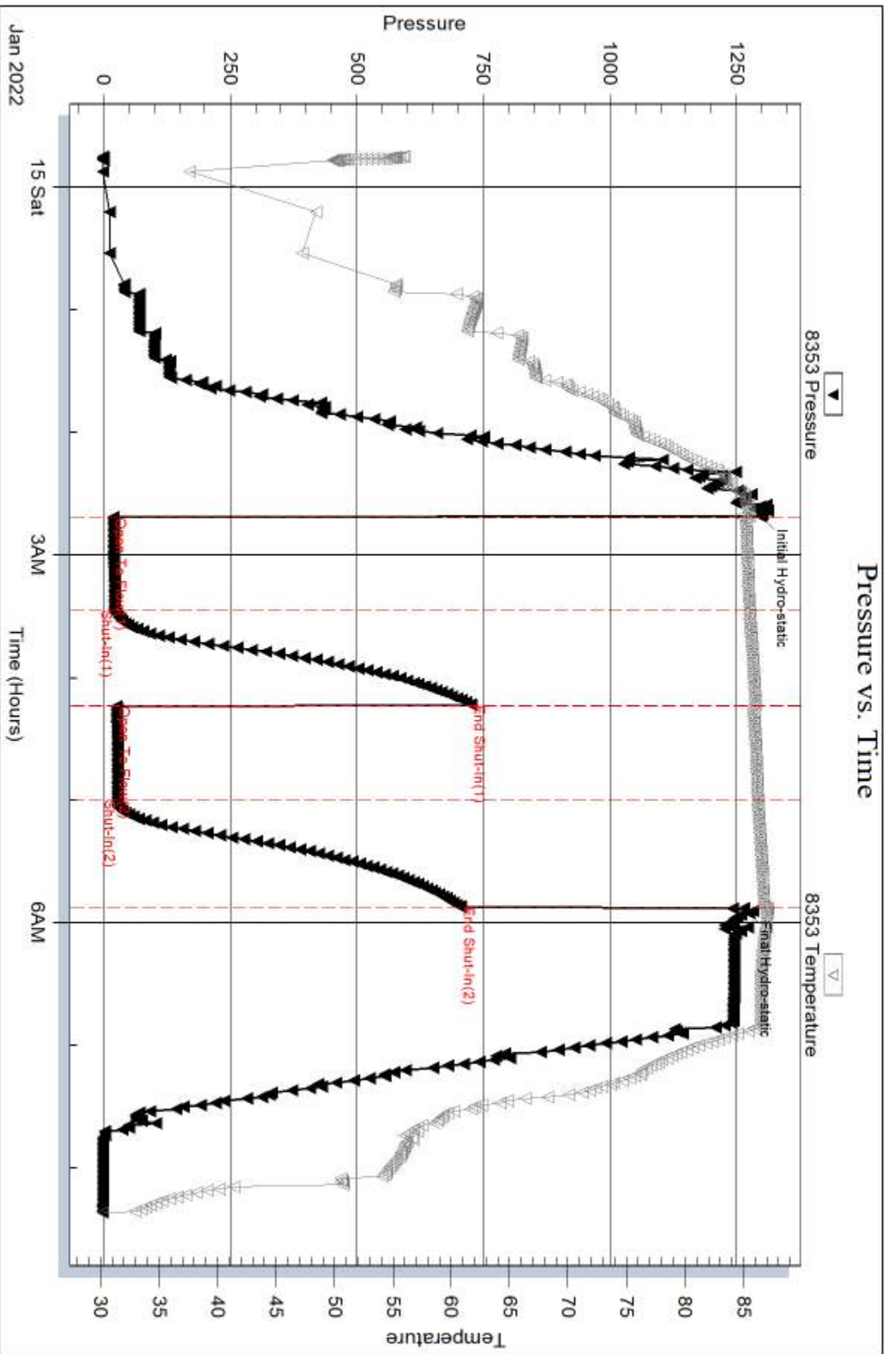
Serial #: 8353

Inside

Bruce Oil Company LLC

Anne Marie #2

DST Test Number: 2



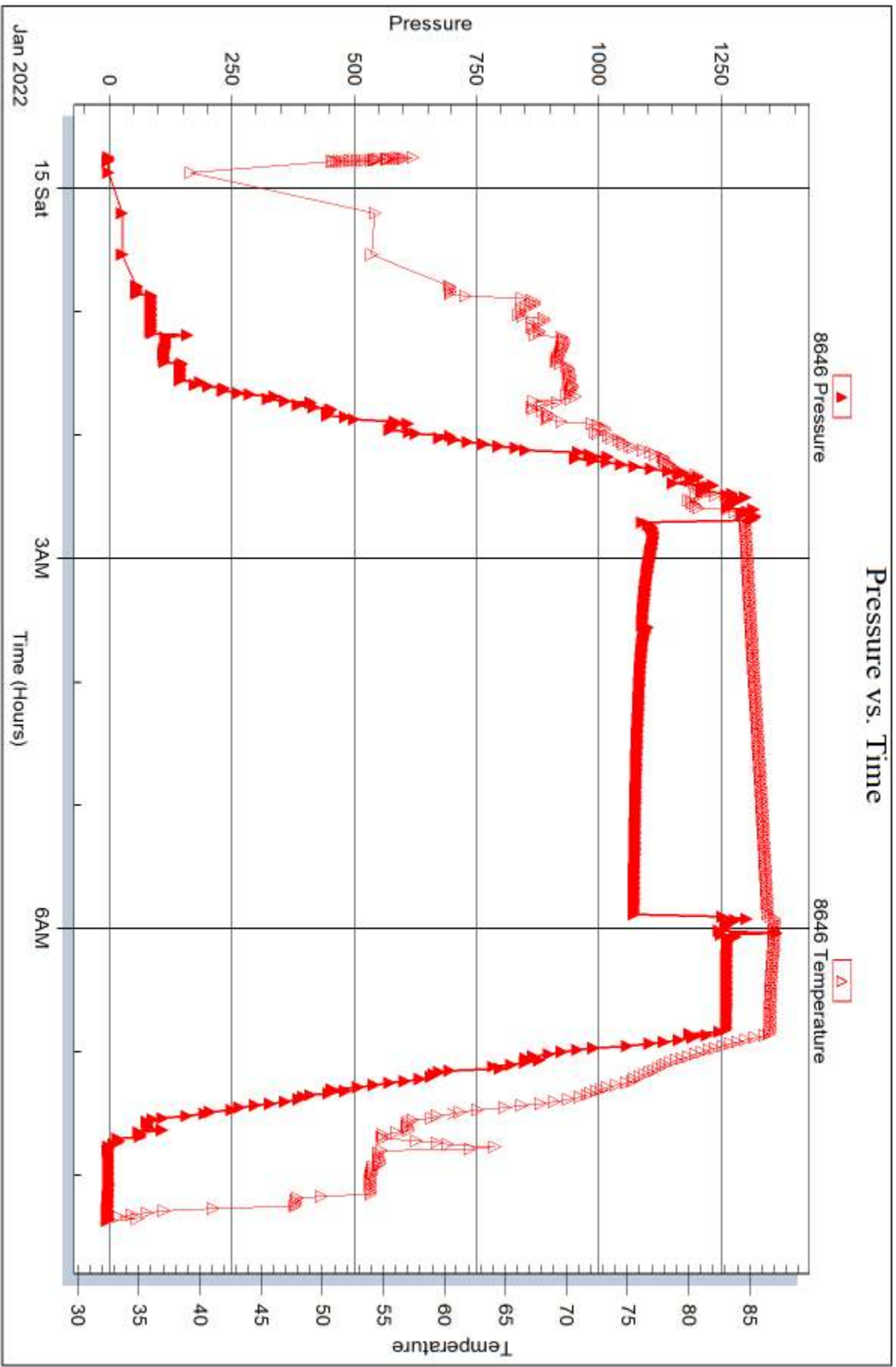


Serial #: 8646

Below (Stratfield) Oil Company LLC

Anne Marie #2

DST Test Number: 2

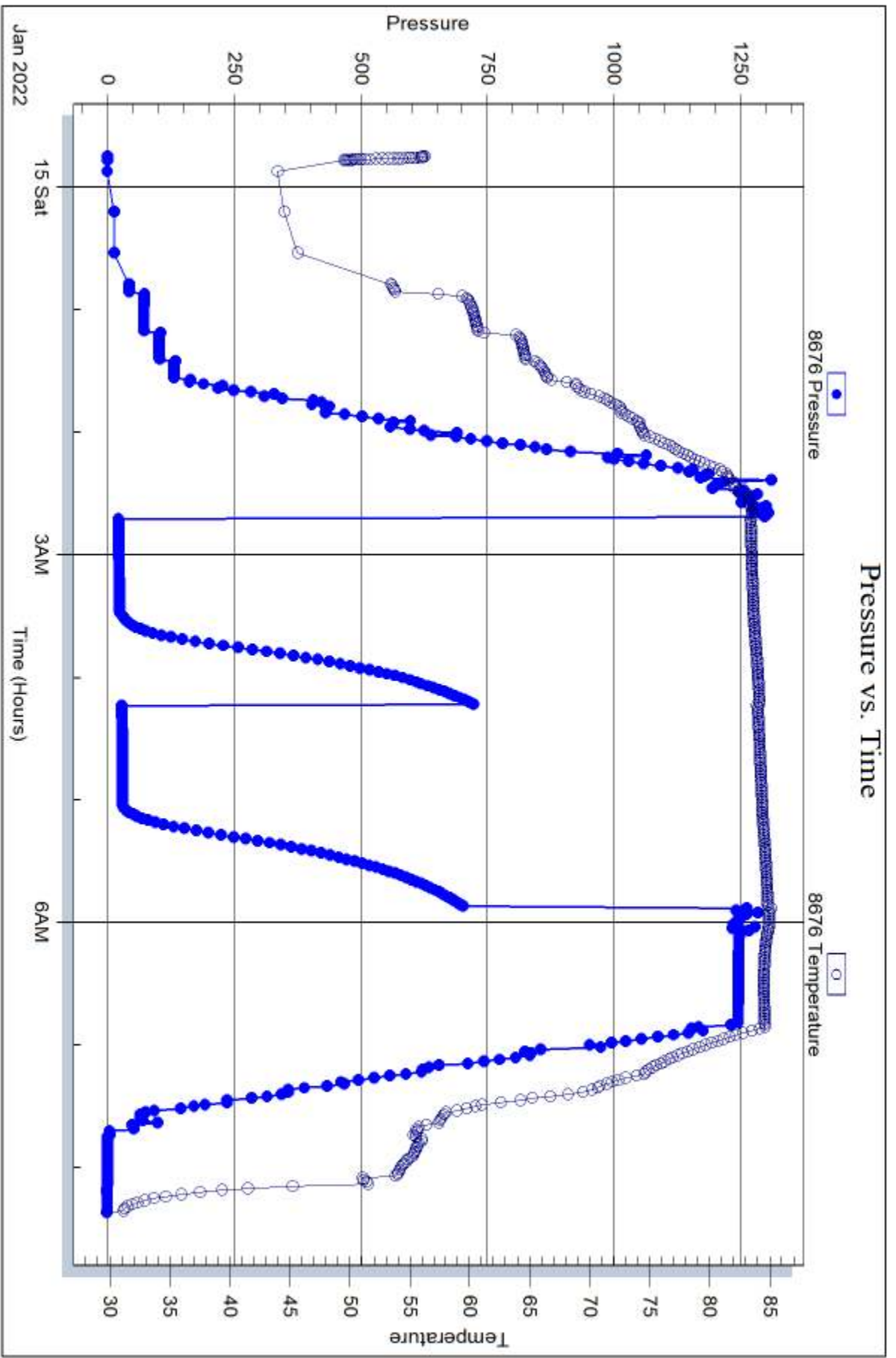


Serial #: 8676

Outside Bruce Oil Company LLC

Anne Marie #2

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 68566

Printed: 2022.01.15 @ 09:02:34



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Bruce Oil Company LLC

**5-9s-12w Osborne, KS**

1704 Limestone Rd, McPherson, KS 67460

**Anne Marie #2**

ATTN: Bob Peterson

Job Ticket: 68555

**DST#: 1**

Test Start: 2022.01.14 @ 09:45:00

## GENERAL INFORMATION:

Formation: **LKC A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:28:00

Time Test Ended: 14:15:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Nathan Aneas

Unit No: 71

**Interval: 2908.00 ft (KB) To 2936.00 ft (KB) (TVD)**

Reference Elevations: 1688.00 ft (KB)

Total Depth: 2936.00 ft (KB) (TVD)

1683.00 ft (CF)

Hole Diameter: 7.87 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8353 Inside**

Press@RunDepth: 19.84 psig @ 2909.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.01.14 End Date: 2022.01.14

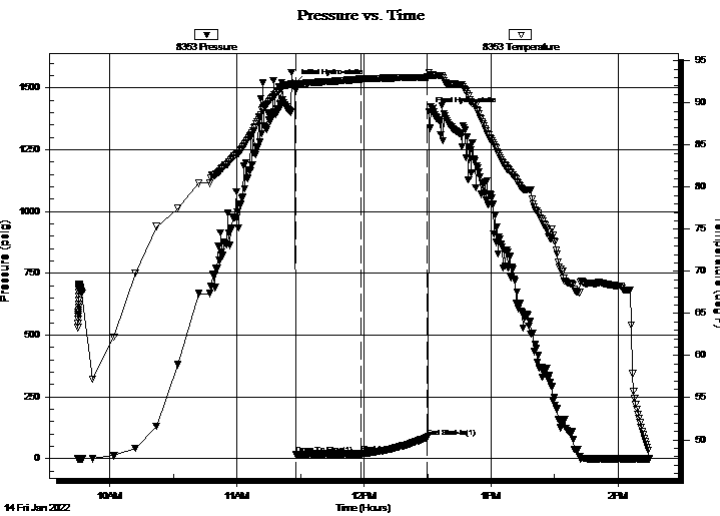
Last Calib.: 2022.01.14

Start Time: 09:45:01 End Time: 14:15:00

Time On Btm: 2022.01.14 @ 11:27:30

Time Off Btm: 2022.01.14 @ 12:30:45

**TEST COMMENT:** 30:IF- Weak surface blow , died right aw ay  
30:IS- No blow back. Pulled Tool



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1517.15	91.80	Initial Hydro-static
1	17.19	91.85	Open To Flow (1)
31	19.84	92.82	Shut-In(1)
63	87.11	93.05	End Shut-In(1)
64	1402.72	93.62	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	Mud in tool 100%M	0.00

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Bruce Oil Company LLC  
 1704 Limestone Rd, McPherson, KS 67460  
 ATTN: Bob Peterson

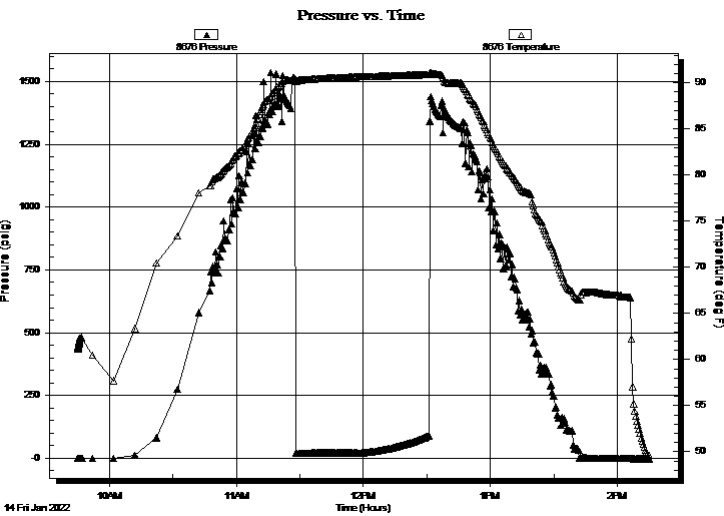
**5-9s-12w Osborne, KS**  
**Anne Marie #2**  
 Job Ticket: 68555 **DST#: 1**  
 Test Start: 2022.01.14 @ 09:45:00

## GENERAL INFORMATION:

Formation: **LKC A**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 11:28:00  
 Time Test Ended: 14:15:00  
 Interval: **2908.00 ft (KB) To 2936.00 ft (KB) (TVD)**  
 Total Depth: 2936.00 ft (KB) (TVD)  
 Hole Diameter: 7.87 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Nathan Aneas  
 Unit No: 71  
 Reference Elevations: 1688.00 ft (KB)  
 1683.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8676 Outside**  
 Press@RunDepth: psig @ 2909.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2022.01.14 End Date: 2022.01.14 Last Calib.: 1899.12.30  
 Start Time: 09:45:01 End Time: 14:15:30 Time On Btm:  
 Time Off Btm:

TEST COMMENT: 30:IF- Weak surface blow , died right aw ay  
 30:IS- No blow back. Pulled Tool



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	Mud in tool 100%M	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Bruce Oil Company LLC

**5-9s-12w Osborne, KS**

1704 Limestone Rd, McPherson, KS 67460

**Anne Marie #2**

Job Ticket: 68555

**DST#: 1**

ATTN: Bob Peterson

Test Start: 2022.01.14 @ 09:45:00

### 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: 69.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	Mud in tool 100%M	0.000

Total Length: ft Total Volume: bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

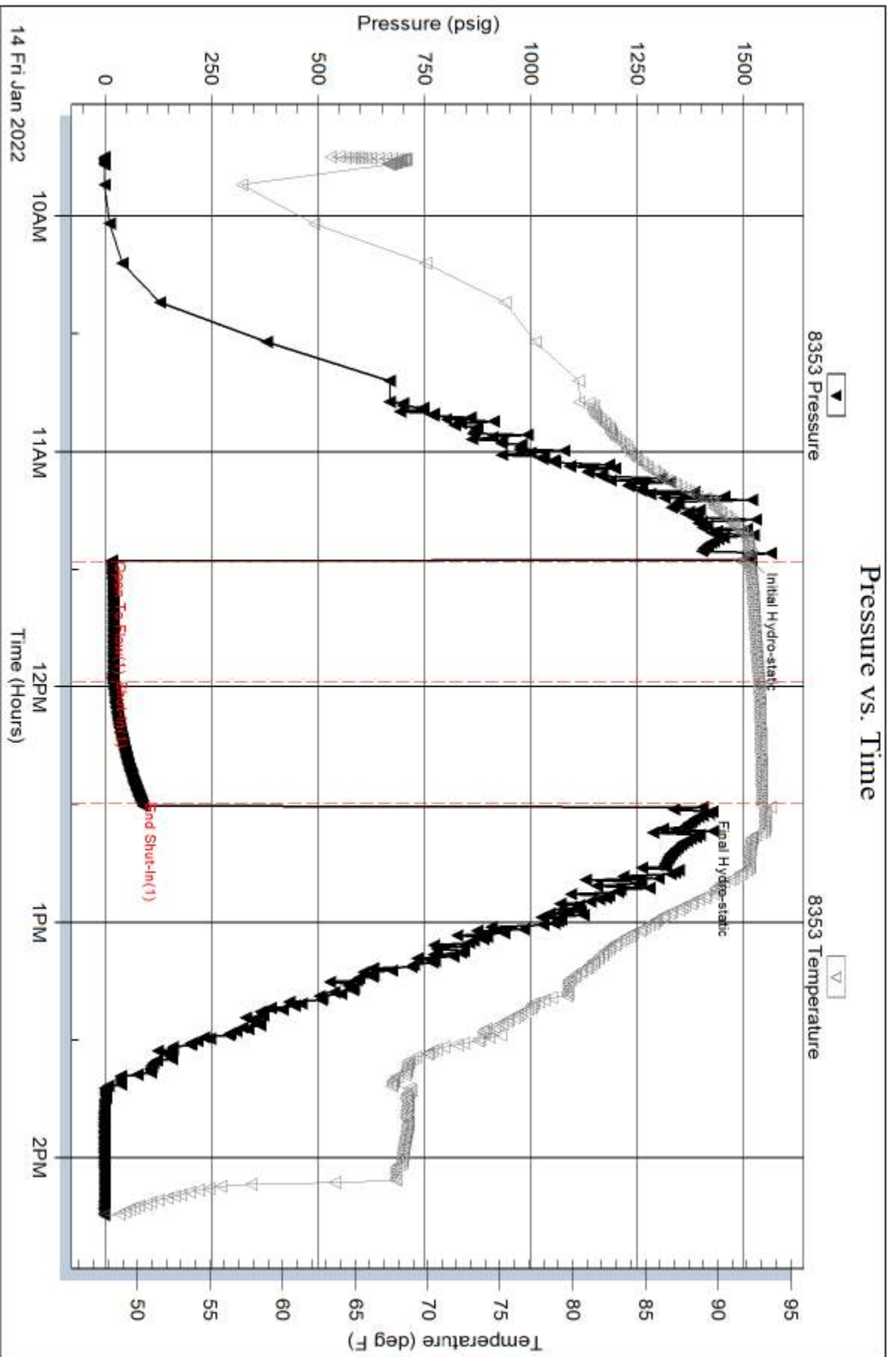
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Inside

Bruce Oil Company LLC

Anne Marie #2

DST Test Number: 1



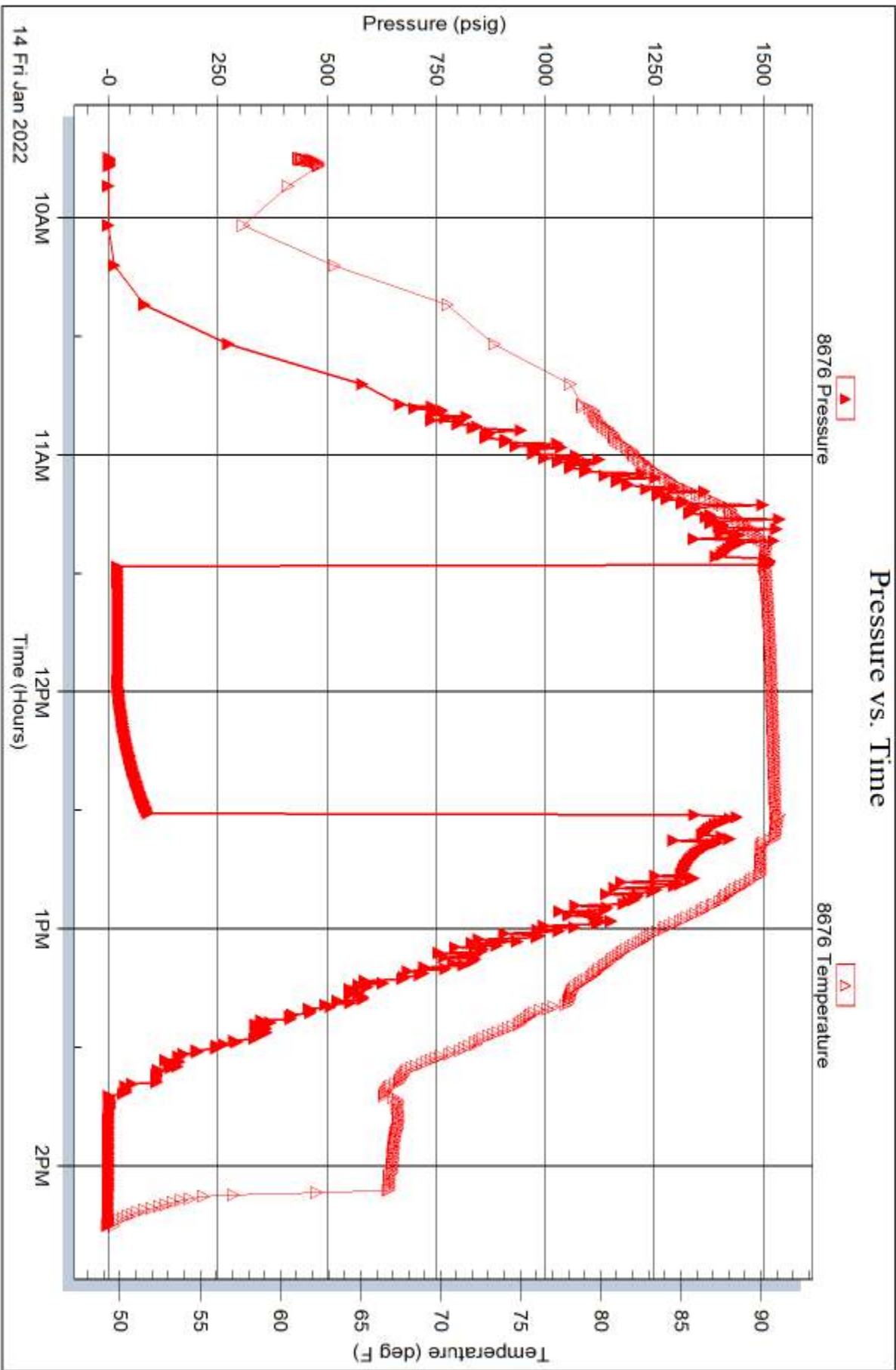
Serial #: 8676

Outside

Bruce Oil Company LLC

Anne Marie #2

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 68555

Printed: 2022.01.14 @ 15:01:38