

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 Recompletion Date _____ 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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Form	ACO1 - Well Completion
Operator	Darrah Oil Company, LLC
Well Name	COUNCIL 1-8
Doc ID	1591809

All Electric Logs Run

Dual induction
Micro
sonic
porosity



Customer	Darrah Oil Co		Lease & Well #	Council 1-8		Date	5/28/2021		
Service District	Oakley KS		County & State	Logan KS	Legals S/T/R	8-12S-36W		Job #	
Job Type	8.625" surface	<input checked="" type="checkbox"/> PROD	<input type="checkbox"/> INJ	<input type="checkbox"/> SWD	New Well?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> No	Ticket #	
Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures							
78	Fennis	<input checked="" type="checkbox"/> Hard hat	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging				
180/520	Mike	<input checked="" type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection				
242	Hugo	<input checked="" type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection	<input checked="" type="checkbox"/> Slip/Trip/Fall Hazards	<input type="checkbox"/> Specific Job Sequence/Expectations				
		<input checked="" type="checkbox"/> FRC/Protective Clothing	<input type="checkbox"/> Additional Chemical/Acid PPE	<input checked="" type="checkbox"/> Overhead Hazards	<input checked="" type="checkbox"/> Muster Point/Medical Locations				
		<input checked="" type="checkbox"/> Hearing Protection	<input checked="" type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below					
Comments									
Muster Point entrance to location. Person in charge of head count Fennis. Nearest hospital Oakley KS. Emergency phone number 911									
Product/Service Code	Description	Unit of Measure	Quantity					Net Amount	
CP015	H-325	sack	185.00					\$3,256.00	
M015	Light Equipment Mileage	mi	25.00					\$44.00	
M010	Heavy Equipment Mileage	mi	25.00					\$88.00	
M020	Ten Mileage	lm	218.00					\$287.76	
C011	Cement Pump Service	ea	1.00					\$968.00	
Customer Section: On the following scale how would you rate Hurricane Services Inc.?							Net:	\$4,643.76	
Based on this job, how likely is it you would recommend HSI to a colleague?							Total Taxable	\$ -	
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>							Tax Rate:		
Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely							State tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.	Sale Tax:	\$ -
							Total:	\$ 4,643.76	
							HSI Representative: <i>Fennis Garduno</i>		

TERMS: Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 1/4% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

X _____ CUSTOMER AUTHORIZATION SIGNATURE



CEMENT TREATMENT REPORT

Customer: Darrah Oil Co
City, State:
Field Rep: Fennis Garduno

Well: Council 1-8
County: Logan KS
S-T-R: 8-12S-36W

Ticket: WP 1437
Date: 5/28/2021
Service: 8.625" surface

Downhole Information
Hole Size: 12.25 in
Hole Depth: 283 ft
Casing Size: 8 5/8 in
Casing Depth: 281 ft
Tubing / Liner: in
Depth: ft
Tool / Packer:
Tool Depth: ft
Displacement: 16.6 bbls

Calculated Slurry - Load
Blend: H-325
Weight: 14.8 ppg
Water / Sx: 6.4 gal / sx
Yield: 1.41 ft³ / sx
Annular Bbls / Ft.: bbs / ft.
Depth: ft
Annular Volume: 0.0 bbls
Excess:
Total Slurry: 47.0 bbls
Total Sacks: 185 sx

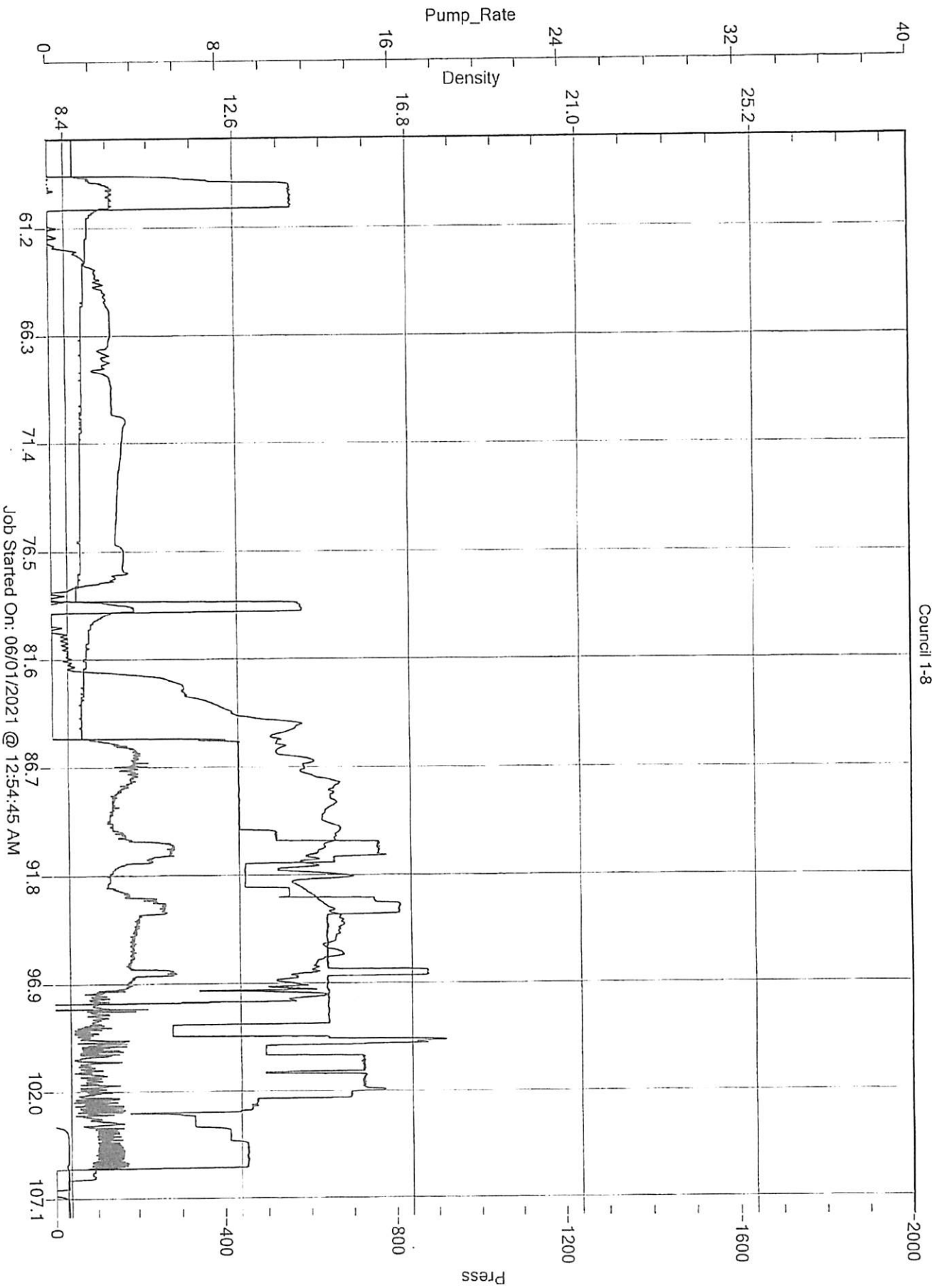
Calculated Slurry - Tail
Blend:
Weight: ppg
Water / Sx: gal / sx
Yield: ft³ / sx
Annular Bbls / Ft.: bbs / ft.
Depth: ft
Annular Volume: 0 bbls
Excess:
Total Slurry: 0.0 bbls
Total Sacks: 0 sx

TIME	RATE	PSI	STAGE		REMARKS
			BBLs	TOTAL BBLs	
10:45 PM			-	-	Journey management meeting
11:00 PM					Convey to location
11:30 PM					Arrive on location
11:35 PM					Safety meeting
11:50 PM					Spot in rig up equipment
1:45 AM		150.0			Rig land casing and circulate
1:53 AM	6.0	170.0	5.0	5.0	Hook cement pump to casing pump fresh water spacer
2:00 AM	6.0	150.0	47.0	52.0	Mix 185 sx H-325 @ 14.8 ppg
2:30 AM	5.0	180.0	16.6	68.6	Displace with fresh water
2:40 AM		180.0		68.6	S/D with 180 psi on casing
3:00 AM				68.6	Rig down leave location
					Circulated 5 bbls cement to surface

	CREW		UNIT	SUMMARY		
				Average Rate	Average Pressure	Total Fluid
Cementer:	Fennis		78	5.7 bpm	166 psi	69 bbls
Pump Operator:	Mike		180/520			
Bulk #1:	Hugo		242			
Bulk #2:						

ftv: 13-2021/01/19
mplv: 105-2021/01/27

Darrah Oil
Council 1-8



Job Started On: 06/01/2021 @ 12:54:45 AM

Saman Sharfaie

Petroleum Geologist

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY **Darrin Oil Company, LLC**

LEASE **Council #1-8**

FIELD **Wildcat**

LOCATION **74°3' N & 99°5' W**

SEC **8** TWP **12S** RGE **36W**

COUNTY **Logan** STATE **Kansas**

CONTRACTOR **Martin Drilling #21**

SPUD **05/29/21** COM **06/11/21**

RTD **4900'** LTD **4901'**

MUD UP **3450'** TYPE MUD **Chemical**

SAMPLES SAVED FROM **3620'** TO RTD

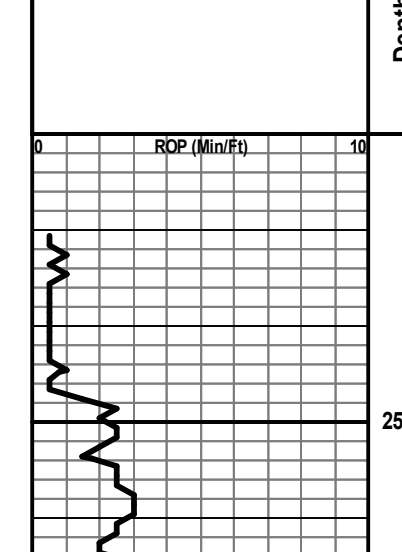
DRILLING TIME KEPT FROM **3520'** TO RTD

SAMPLES EXAMINED FROM **3520'** TO RTD

GEOLOGICAL SUPERVISION FROM **3320'**

REFERENCE WELL **Ritchie - #1 Saline Valley, JD**

Formation	Sample Tops	E-log Tops	Strat Pos.
Athydrite	2548 (+624)	2544 (+628)	-1.2
Base Athydrite	2571 (+601)	2569 (+603)	-1.3
Heebner	3890 (-718)	3888 (-716)	-1
Toronto	3918 (-746)	3914 (-742)	+1
Lansing	3934 (-762)	3933 (-761)	+1
Muncie Creek	4090 (-918)	4087 (-915)	+1
BKC	4245 (-1073)	4242 (-1070)	+1
Altamont	4302 (-1130)	4310 (-1138)	+2
Mississippian	4690 (-1518)	4700 (-1528)	+3



REMARKS Due to poor to fair shows of oil in multiple potential pay zones and negative DST results, it is recommended and agreed upon by all parties that this well be plugged and abandoned.

Respectfully Submitted,
Saman Sharfaie
Petroleum Geologist

API #15-109-21617

*Tops have been adjusted to electric logs

Depth	Lithology	Geological Descriptions	Engineering Data
0 - 2550	Anhydrite	Anhydrite 2544 (+628)	
2550 - 3550	Base	Base 2569 (+603)	
3550 - 3700	DAILY PENETRATION	<p>@ 7:00 AM</p> <p>05/29/21 - Spudded at 1:45 PM 05/30/21 - Shut down</p> <p>05/31/21 - Shut down</p> <p>06/01/21 - Shut down</p> <p>06/02/21 - Drilling surface casing</p> <p>06/03/21 - Drilling at 1942'</p> <p>06/04/21 - Drilling at 3020'</p> <p>06/05/21 - Drilling at 3820'</p> <p>06/06/21 - Testing at 4200'</p> <p>06/07/21 - Drilling at 4210'</p> <p>06/08/21 - Drilling at 4340'</p> <p>06/09/21 - Drilling at 4452'</p> <p>06/10/21 - Testing at 4530'</p> <p>06/11/21 - Logging at 4900'</p>	<p>Pipe Strap @ 3494': 0.82 Short to Board Deviation Survey: 0.2'</p>
3700 - 3800	Topoka	Topoka 3732 (-560)	<p>Mud-Co @ 3622'</p> <p>Wt: 8.8</p> <p>Vis: 5.2</p> <p>WI: 7.2</p> <p>Chl: 5,000</p> <p>LCM: #4</p>
3800 - 3900	Creed	Creed 3838 (-666)	
3900 - 3950	Heebner	Heebner 3888 (-716)	
3950 - 4000	Toronto	Toronto 3914 (-742)	
4000 - 4100	Lansing	Lansing 3933 (-761)	<p>DST #1 (LKC A-D) 3926'-4020'</p> <p>30-45-30-60 IF: BOB in 8 mins IS1: No blow FF: BOB in 10 mins FS1: No blow Rec: 220' WCM (90%W, 60%M), 630' WCM (10%W, 90%W)</p> <p>IFP: 42 - 246 FFP: 256 - 389 ISIP: 1203 FSIP: 1204 IHP: 2023 FHP: 1917 BHT: 124° RW: 0.24 @ 88°F Chl: 21,000 PPM</p>
4100 - 4200	Muncie Creek	Muncie Creek 4087 (-915)	<p>Mud-Co @ 4020'</p> <p>Wt: 9.3</p> <p>Vis: 6.3</p> <p>WI: 7.2</p> <p>Chl: 6,500</p> <p>LCM: #3</p> <p>Deviation Survey @ 4020': 0.4'</p>
4200 - 4300	Stark	Stark 4170 (-998)	<p>DST #2 (LKC I-J) 4124'-4180'</p> <p>30-45-30-45 IF: Blow built to 1 1/2" FF: Blow built to 1" Rec: 60' WCM (30%W, 70%M), 60' WCM (40%W, 60%M)</p> <p>IFP: 26 - 42 FFP: 48 - 72 ISIP: 1276 FSIP: 1251 IHP: 2173 FHP: 2013 BHT: 124° RW: 0.21 @ 91°F Chl: 25,000 PPM</p>
4300 - 4400	Marmaton	Marmaton 4286 (-1114)	
4400 - 4500	Altamont	Altamont 4310 (-1138)	
4500 - 4600	Pawnee	Pawnee 4302 (-1200)	<p>DST #3 (Pawnee-Ft Scott) 4347'-4450'</p> <p>30-50-10-Pulled Tool IF: Blow built to 1/2" FF: Blow built to 1/2" Rec: 10' M (100%M)</p> <p>IFP: 28 - 30 FFP: 32 - 30 ISIP: 717 FSIP: N/A IHP: 2317 FHP: 2235 BHT: 124°</p>
4600 - 4700	Myrick Station	Myrick Station 4418 (-1246)	
4700 - 4800	Ft Scott	Ft Scott 4434 (-1262)	
4800 - 4900	Cherokee	Cherokee 4466 (-1294)	<p>Deviation Survey @ 4460': 0.3'</p> <p>Mud-Co @ 4457'</p> <p>Wt: 9.3</p> <p>Vis: 6.7</p> <p>WI: 8.8</p> <p>Chl: 8,400</p> <p>LCM: #2</p>
4900 - 5000	Johnson Zone	Johnson Zone 4526 (-1354)	<p>DST #4 (Johnson Zn) 4468'-4530'</p> <p>30-30-10-Pulled Tool IF: Surface blow Rec: 10' M w/ O spts</p> <p>IFP: 32 - 35 FFP: 38 - 36 ISIP: 963 FSIP: N/A IHP: 2259 FHP: 2229 BHT: 125°</p>
5000 - 5100	Morrow Sd	Morrow Sd 4593 (-1421)	<p>Mud-Co @ 4597'</p> <p>Wt: 9.4</p> <p>Vis: 8.8</p> <p>WI: 8.0</p> <p>Chl: 7,500</p> <p>LCM: #3</p>
5100 - 5200	Mississippian	Mississippian 4700 (-1528)	



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Darrah Oil Company LLC

8-12-36 Logan, Ks

125 N Market Suite 1425
Wichita, KS 67202

Council 1-8

ATTN: Saman Sharifaie

Job Ticket: 66849

DST#: 1

Test Start: 2021.06.06 @ 09:09:58

GENERAL INFORMATION:

Formation: **LKC A-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:36:58

Time Test Ended: 17:13:58

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 79

Interval: 3926.00 ft (KB) To 4020.00 ft (KB) (TVD)

Reference Elevations: 3171.00 ft (KB)

Total Depth: 4020.00 ft (KB) (TVD)

3161.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8674 Outside

Press@RunDepth: 389.47 psig @ 3927.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.06.06

End Date:

2021.06.06

Last Calib.:

2021.06.06

Start Time: 09:10:03

End Time:

17:13:57

Time On Btm:

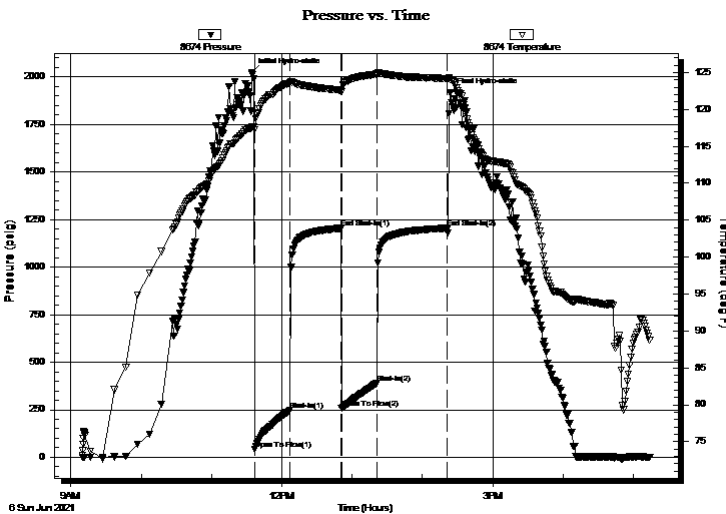
2021.06.06 @ 11:34:28

Time Off Btm:

2021.06.06 @ 14:23:58

TEST COMMENT: IF: BOB in 8 min. 21 3/4
IS: No return.
FF: BOB in 10 min. 19"
FS: No return. 30-45-30-60

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2023.97	117.50	Initial Hydro-static
3	42.29	117.22	Open To Flow (1)
33	246.92	123.57	Shut-In(1)
76	1203.94	122.61	End Shut-In(1)
77	256.52	122.44	Open To Flow (2)
107	389.47	124.77	Shut-In(2)
167	1204.59	124.16	End Shut-In(2)
170	1917.71	124.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
630.00	mcw 90%w 10%m	6.65
220.00	w cm 40%w 60%m	3.09

Gas Rates

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



DRILL STEM TEST REPORT

Darrah Oil Company LLC
 125 N Market Suite 1425
 Wichita, KS 67202
 ATTN: Saman Sharifaie

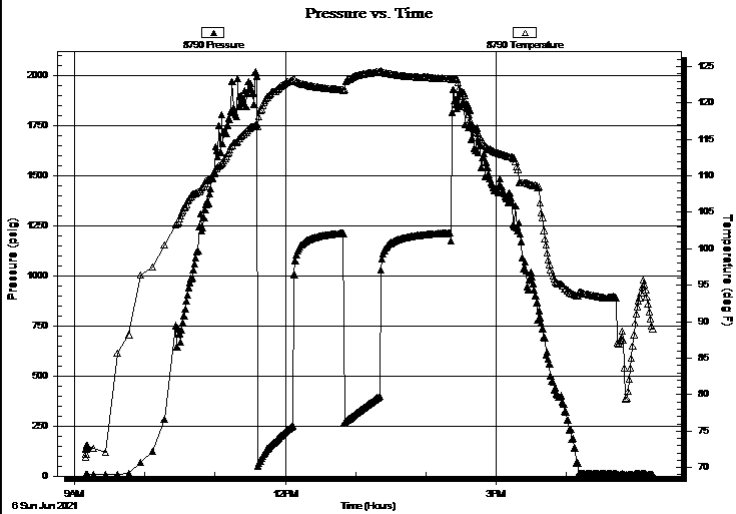
8-12-36 Logan, Ks
Council 1-8
 Job Ticket: 66849 **DST#: 1**
 Test Start: 2021.06.06 @ 09:09:58

GENERAL INFORMATION:

Formation: **LKC A-D**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:36:58
 Time Test Ended: 17:13:58
 Interval: **3926.00 ft (KB) To 4020.00 ft (KB) (TVD)**
 Total Depth: 4020.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Brandon Turley
 Unit No: 79
 Reference Elevations: 3171.00 ft (KB)
 3161.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8790 Inside
 Press@RunDepth: psig @ 3927.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2021.06.06 End Date: 2021.06.06 Last Calib.: 2021.06.06
 Start Time: 09:09:33 End Time: 17:13:27 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: BOB in 8 min. 21 3/4
 IS: No return.
 FF: BOB in 10 min. 19"
 FS: No return. 30-45-30-60



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
630.00	mcw 90%w 10%m	6.65
220.00	w cm 40%w 60%m	3.09

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Darrah Oil Company LLC

8-12-36 Logan, Ks

125 N Market Suite 1425
Wichita, KS 67202

Council 1-8

Job Ticket: 66849

DST#: 1

ATTN: Saman Sharifaie

Test Start: 2021.06.06 @ 09:09:58

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

21000 ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
630.00	mcw 90%w 10%m	6.651
220.00	w cm 40%w 60%m	3.086

Total Length: 850.00 ft Total Volume: 9.737 bbf

Num Fluid Samples: 0

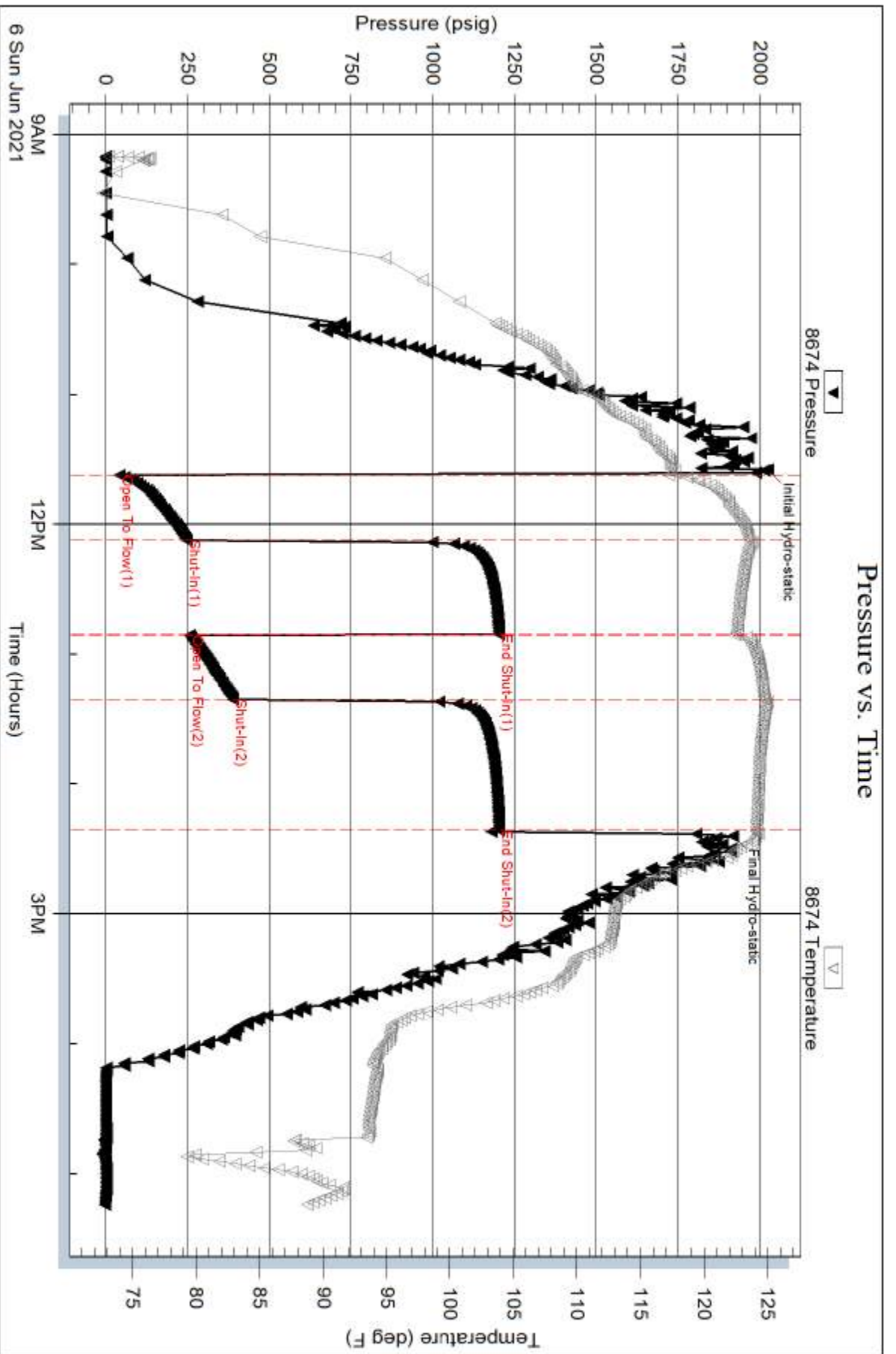
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .24@88=21000



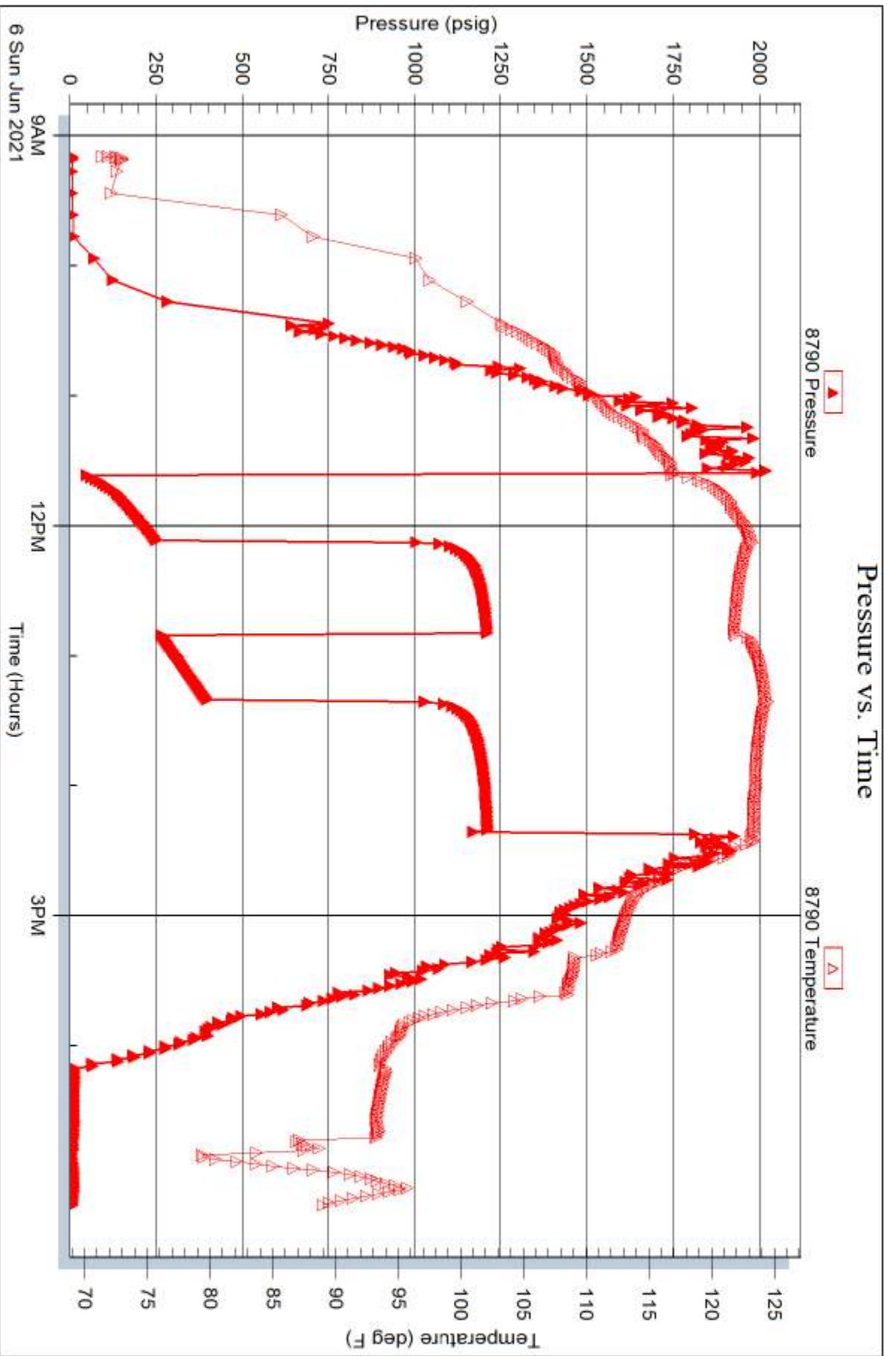
Serial #: 8790

Inside

Darrah Oil Company LLC

Council 1-8

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 66849

Printed: 2021.06.06 @ 18:53:00



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Darrah Oil Company LLC

8-12-36 Logan, Ks

125 N Market Suite 1425
Wichita, KS 67202

Council 1-8

ATTN: Saman Sharifaie

Job Ticket: 66850

DST#: 2

Test Start: 2021.06.07 @ 10:22:42

GENERAL INFORMATION:

Formation: **LKC I-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:46:42

Time Test Ended: 17:39:12

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: 4124.00 ft (KB) To 4180.00 ft (KB) (TVD)

Total Depth: 4180.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3171.00 ft (KB)

3161.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8674 Outside

Press@RunDepth: 72.37 psig @ 4125.00 ft (KB)

Start Date: 2021.06.07

End Date:

2021.06.07

Start Time: 10:22:47

End Time:

17:39:11

Capacity: 8000.00 psig

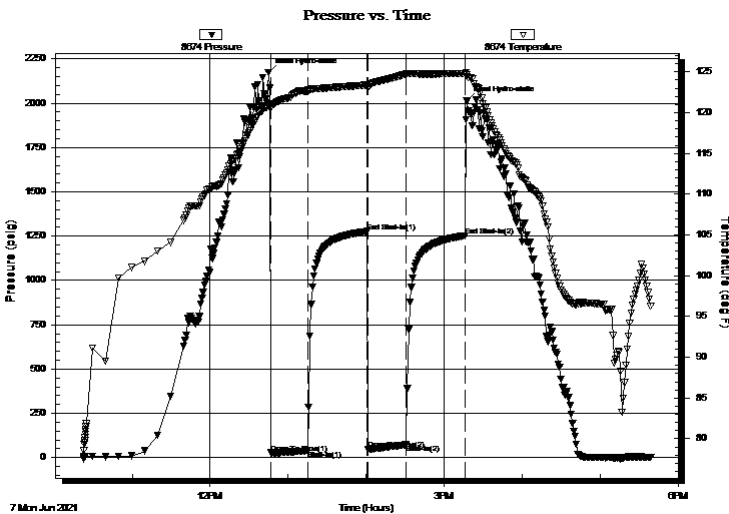
Last Calib.: 2021.06.07

Time On Btm: 2021.06.07 @ 12:44:42

Time Off Btm: 2021.06.07 @ 15:17:12

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

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2173.70	120.72	Initial Hydro-static
2	26.34	120.55	Open To Flow (1)
31	42.31	122.70	Shut-In(1)
76	1276.10	123.38	End Shut-In(1)
77	48.44	123.12	Open To Flow (2)
106	72.37	124.74	Shut-In(2)
151	1251.66	124.81	End Shut-In(2)
153	2013.92	124.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	w cm 40%w 60%m	0.30
60.00	w cm 30%w 70%m	0.30

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Darrah Oil Company LLC

125 N Market Suite 1425
Wichita, KS 67202

ATTN: Saman Sharifaie

8-12-36 Logan, Ks

Council 1-8

Job Ticket: 66850

DST#: 2

Test Start: 2021.06.07 @ 10:22:42

GENERAL INFORMATION:

Formation: **LKC I-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:46:42

Time Test Ended: 17:39:12

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: **4124.00 ft (KB) To 4180.00 ft (KB) (TVD)**

Reference Elevations: 3171.00 ft (KB)

Total Depth: 4180.00 ft (KB) (TVD)

3161.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8790 Inside

Press@RunDepth: psig @ 4125.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.06.07

End Date: 2021.06.07

Last Calib.: 1899.12.30

Start Time: 10:22:33

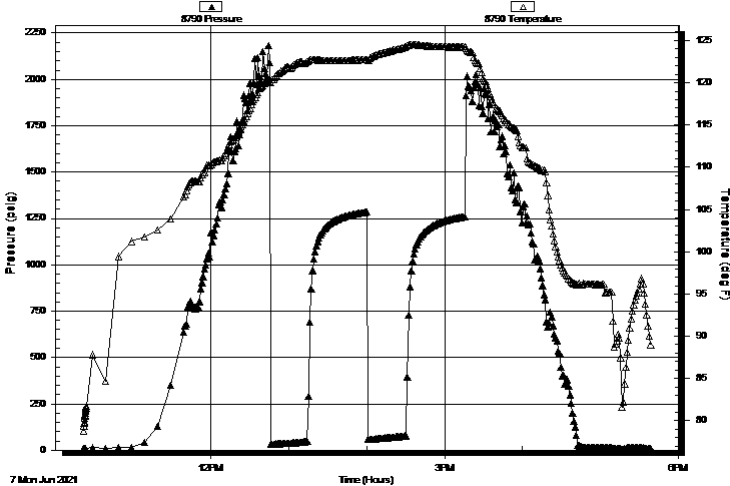
End Time: 17:38:57

Time On Btm:

Time Off Btm:

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

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	w cm 40%w 60%m	0.30
60.00	w cm 30%w 70%m	0.30

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Darrah Oil Company LLC

8-12-36 Logan, Ks

125 N Market Suite 1425
Wichita, KS 67202

Council 1-8

Job Ticket: 66850

DST#: 2

ATTN: Saman Sharifaie

Test Start: 2021.06.07 @ 10:22:42

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

25000 ppm

Viscosity: 67.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
60.00	w cm 40%w 60%m	0.295
60.00	w cm 30%w 70%m	0.295

Total Length: 120.00 ft Total Volume: 0.590 bbf

Num Fluid Samples: 0

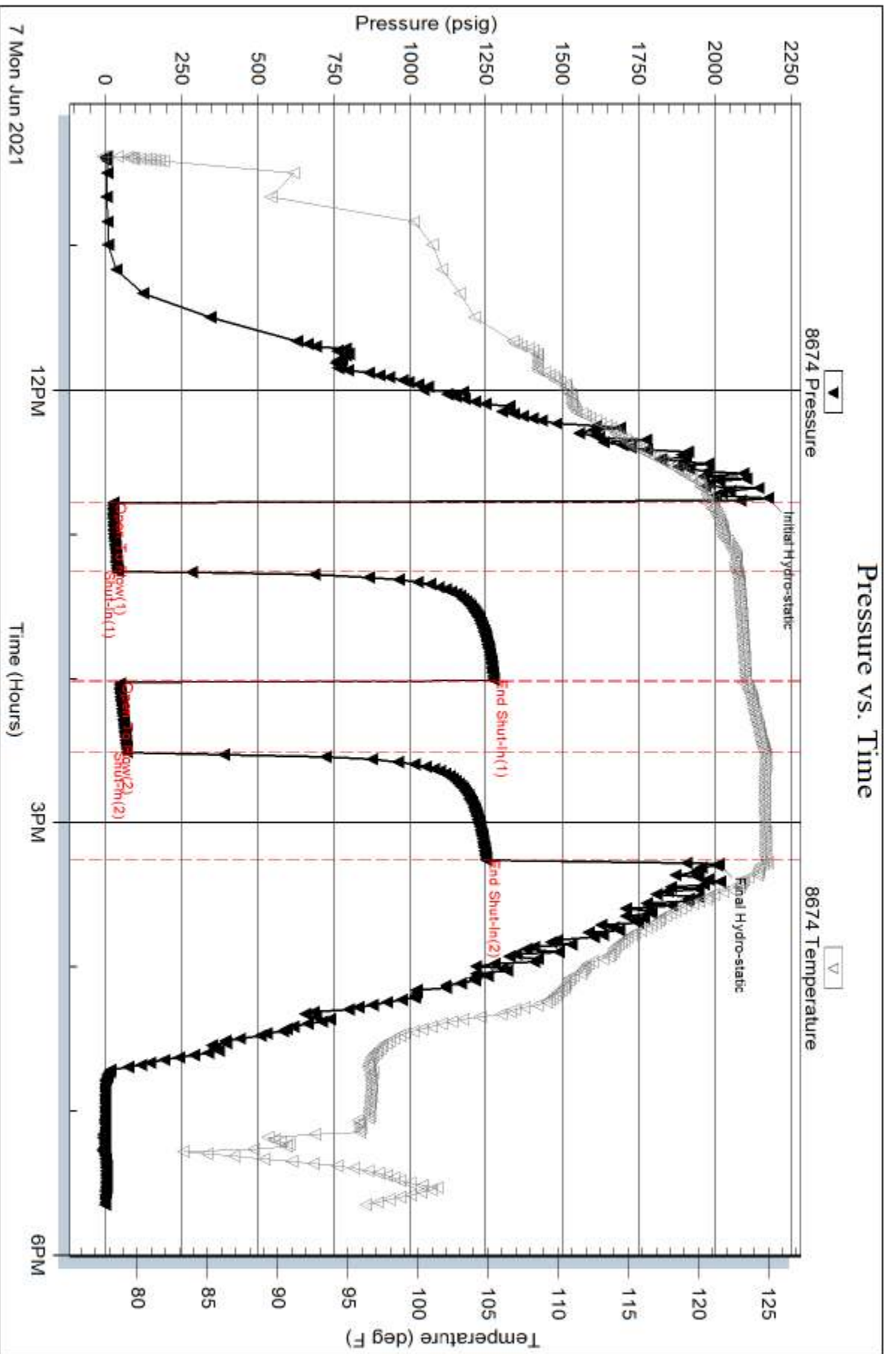
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .21@91=25000



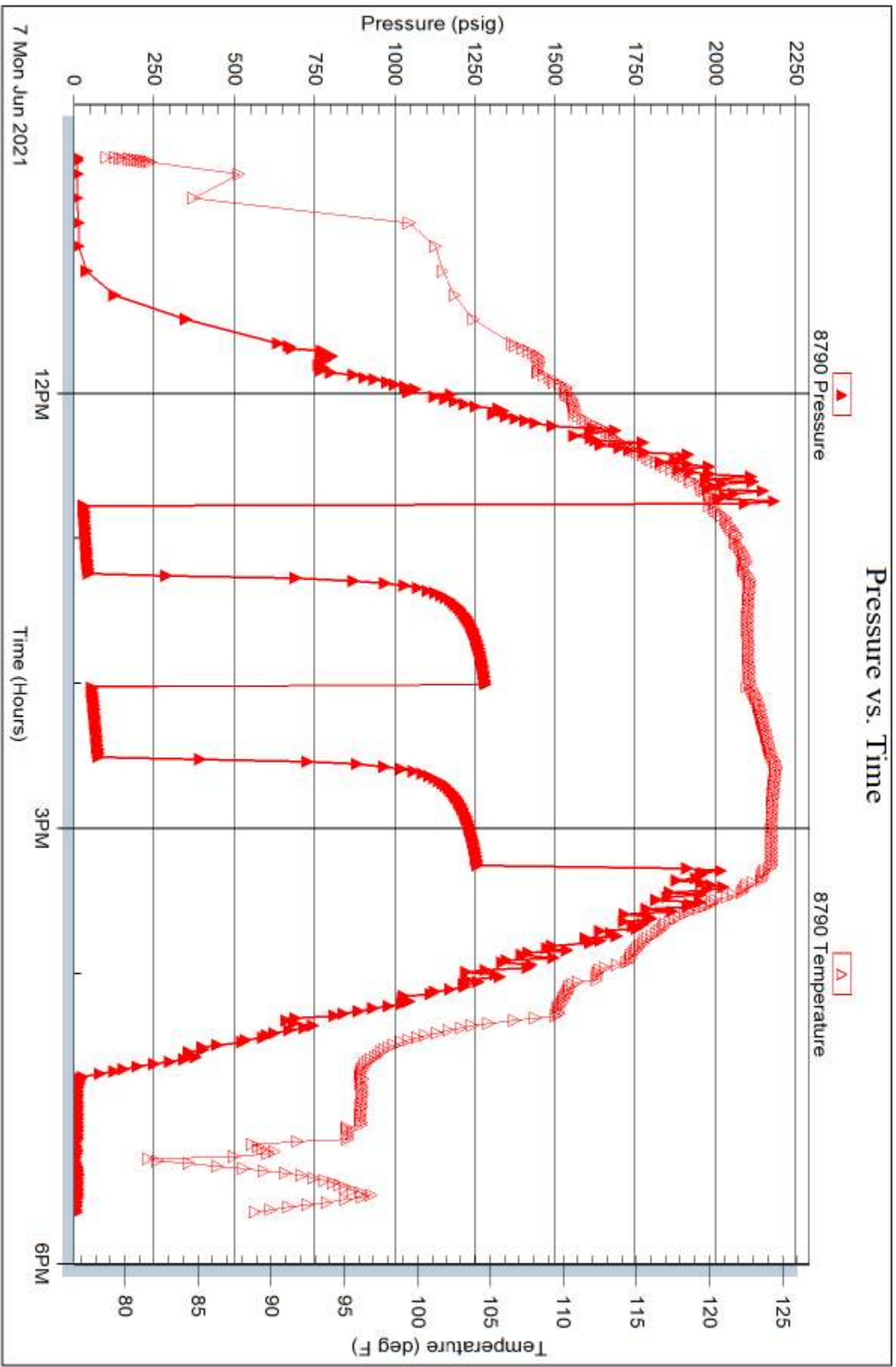
Serial #: 8790

Inside

Darrah Oil Company LLC

Council 1-8

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 66850

Printed: 2021.06.07 @ 19:31:01



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Darrah Oil Company LLC

8-12-36 Logan, Ks

125 N Market Suite 1425
Wichita, KS 67202

Council 1-8

ATTN: Saman Sharifaie

Job Ticket: 67451

DST#: 3

Test Start: 2021.06.08 @ 20:16:05

GENERAL INFORMATION:

Formation: **Pawnee- Ft Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:51:05

Time Test Ended: 02:48:05

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: 4347.00 ft (KB) To 4450.00 ft (KB) (TVD)

Reference Elevations: 3171.00 ft (KB)

Total Depth: 4450.00 ft (KB) (TVD)

3161.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8674 Outside

Press@RunDepth: 30.01 psig @ 4348.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.06.08

End Date:

2021.06.09

Last Calib.:

2021.06.09

Start Time: 20:16:10

End Time:

02:48:04

Time On Btm:

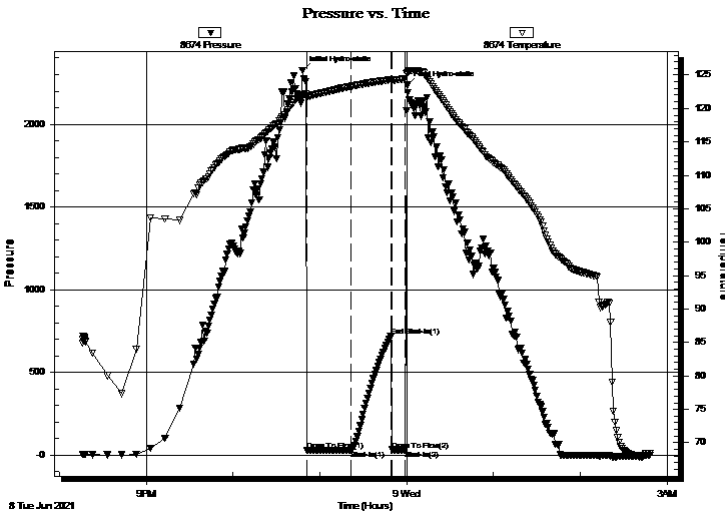
2021.06.08 @ 22:48:05

Time Off Btm:

2021.06.09 @ 00:00:35

TEST COMMENT: IF: 1/2 blow died in 15 mins.
IS: No return.
FF: No blow.
FS: Pulled tool 30-30-10-Pull

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2325.10	121.93	Initial Hydro-static
3	28.74	121.67	Open To Flow (1)
34	30.01	123.32	Shut-In(1)
61	717.28	124.31	End Shut-In(1)
62	32.23	124.23	Open To Flow (2)
71	30.19	124.47	Shut-In(2)
73	2235.91	125.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud 100%m	0.05

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Darrah Oil Company LLC

8-12-36 Logan, Ks

125 N Market Suite 1425
Wichita, KS 67202

Council 1-8

Job Ticket: 67451

DST#: 3

ATTN: Saman Sharifaie

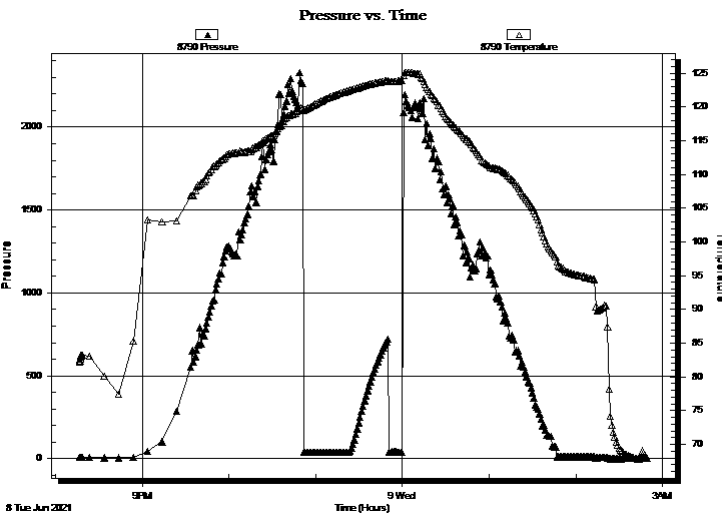
Test Start: 2021.06.08 @ 20:16:05

GENERAL INFORMATION:

Formation: **Pawnee- Ft Scott**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 22:51:05
 Tester: Brandon Turley
 Time Test Ended: 02:48:05
 Unit No: 79
Interval: 4347.00 ft (KB) To 4450.00 ft (KB) (TVD)
 Reference Elevations: 3171.00 ft (KB)
 Total Depth: 4450.00 ft (KB) (TVD) 3161.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 10.00 ft

Serial #: 8790 Inside
 Press@RunDepth: psig @ 4348.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2021.06.08 End Date: 2021.06.09 Last Calib.: 2021.06.09
 Start Time: 20:16:51 End Time: 02:48:45 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: 1/2 blow died in 15 mins.
 IS: No return.
 FF: No blow.
 FS: Pulled tool 30-30-10-Pull



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud 100%m	0.05

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Darrah Oil Company LLC

8-12-36 Logan, Ks

125 N Market Suite 1425
Wichita, KS 67202

Council 1-8

Job Ticket: 67451

DST#: 3

ATTN: Saman Sharifaie

Test Start: 2021.06.08 @ 20:16:05

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	mud 100%m	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

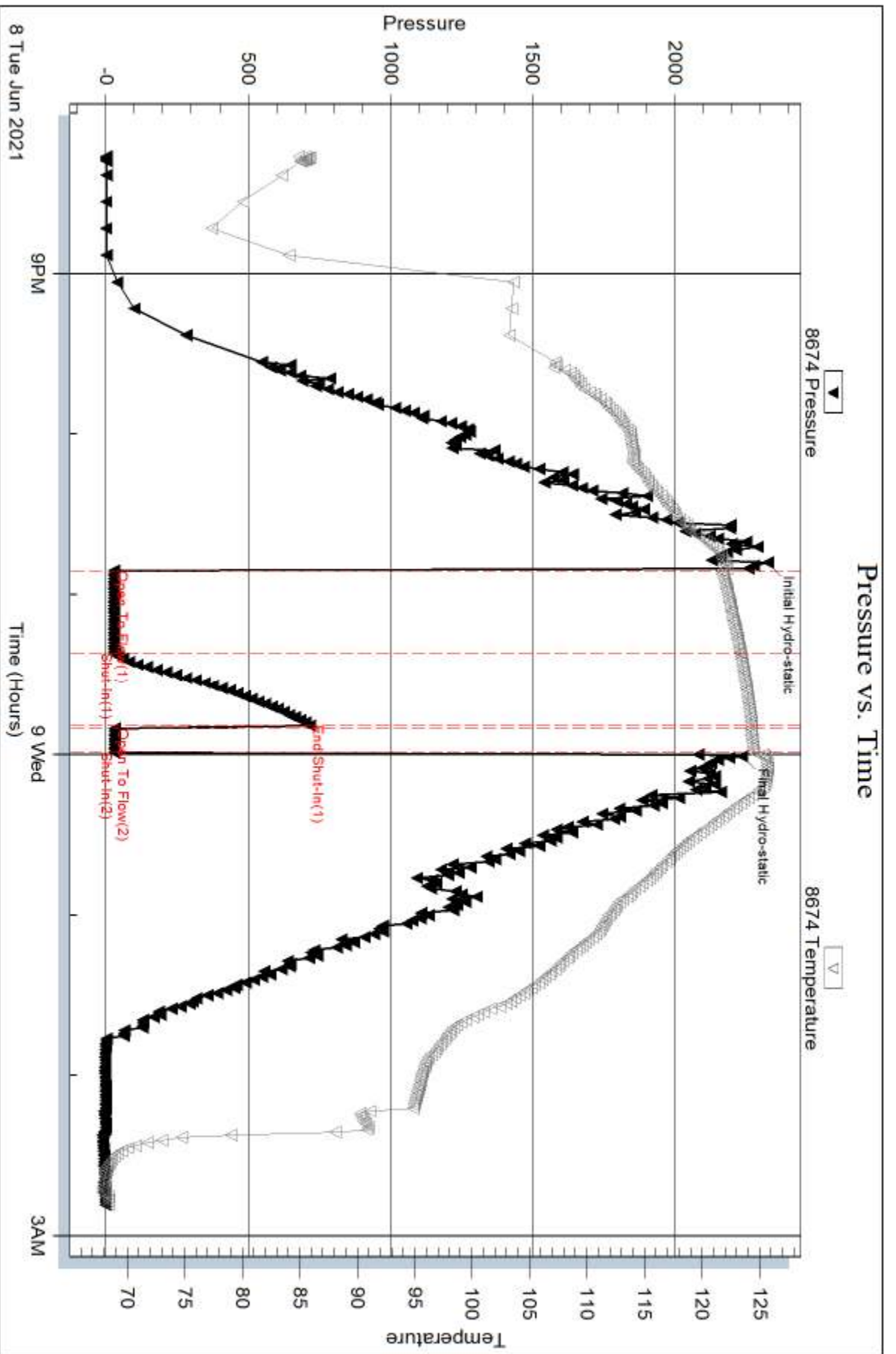
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



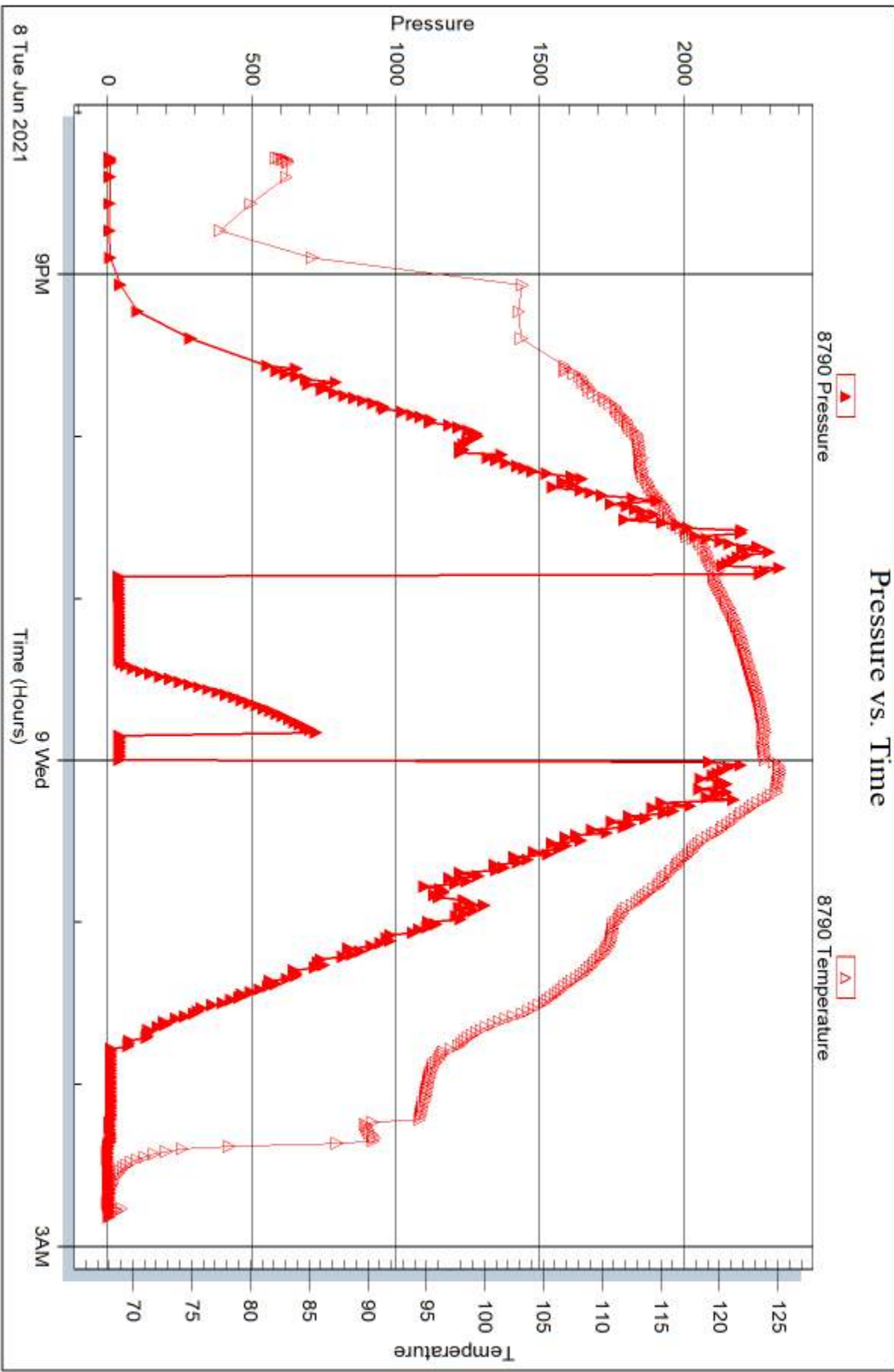
Serial #: 8790

Inside

Darrah Oil Company LLC

Council 1-8

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 67451

Printed: 2021.06.09 @ 07:09:41



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Darrah Oil Company LLC

8-12-36 Logan, Ks

125 N Market Suite 1425
Wichita, KS 67202

Council 1-8

ATTN: Saman Sharifaie

Job Ticket: 67452

DST#: 4

Test Start: 2021.06.09 @ 15:49:30

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:13:25

Time Test Ended: 22:00:24

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: 4468.00 ft (KB) To 4530.00 ft (KB) (TVD)

Reference Elevations: 3171.00 ft (KB)

Total Depth: 4530.00 ft (KB) (TVD)

3161.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8790 Inside

Press@RunDepth: 35.34 psig @ 4469.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.06.09

End Date:

2021.06.09

Last Calib.:

2021.06.09

Start Time: 15:49:30

End Time:

22:00:24

Time On Btm:

2021.06.09 @ 18:11:55

Time Off Btm:

2021.06.09 @ 19:24:25

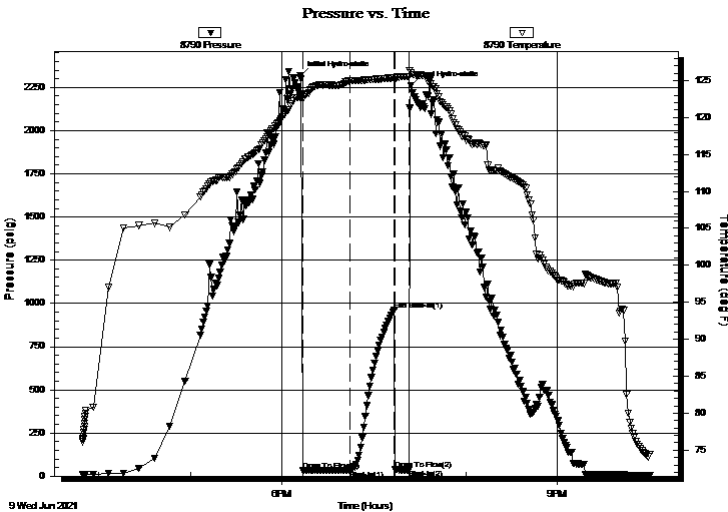
TEST COMMENT: IF: Surface blow died in 15 min.

IS: No return.

FF: No blow.

FS: Pulled tool

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2317.95	122.75	Initial Hydro-static
2	32.02	122.48	Open To Flow (1)
33	35.34	124.99	Shut-In(1)
62	963.58	125.39	End Shut-In(1)
62	38.10	125.05	Open To Flow (2)
71	36.89	125.55	Shut-In(2)
73	2259.77	126.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud oil spots 100%m	0.05

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Darrah Oil Company LLC

8-12-36 Logan, Ks

125 N Market Suite 1425
Wichita, KS 67202

Council 1-8

ATTN: Saman Sharifaie

Job Ticket: 67452

DST#: 4

Test Start: 2021.06.09 @ 15:49:30

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:13:25

Time Test Ended: 22:00:24

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: **4468.00 ft (KB) To 4530.00 ft (KB) (TVD)**

Reference Elevations: 3171.00 ft (KB)

Total Depth: 4530.00 ft (KB) (TVD)

3161.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8674 Outside

Press@RunDepth: psig @ 4469.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.06.09 End Date: 2021.06.09

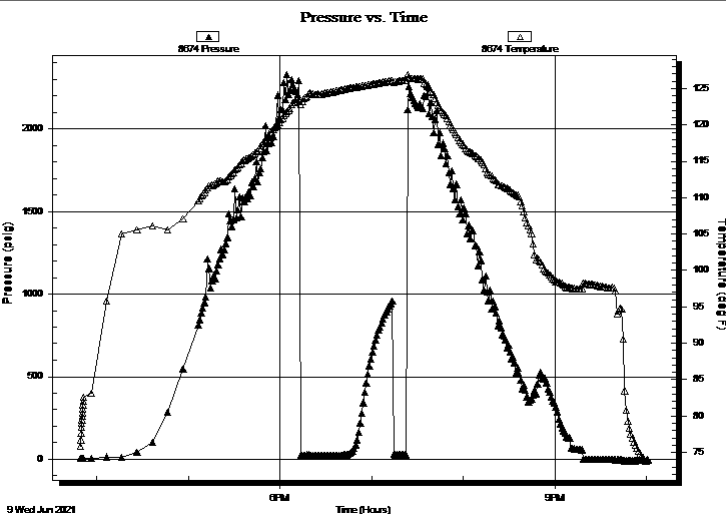
Last Calib.: 2021.06.09

Start Time: 15:49:40 End Time: 22:00:34

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Surface blow died in 15 min.
IS: No return.
FF: No blow.
FS: Pulled tool



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud oil spots 100%m	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

Darrah Oil Company LLC

8-12-36 Logan, Ks

125 N Market Suite 1425
Wichita, KS 67202

Council 1-8

Job Ticket: 67452

DST#: 4

ATTN: Saman Sharifaie

Test Start: 2021.06.09 @ 15:49:30

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 67.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
10.00	mud oil spots 100%m	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8790

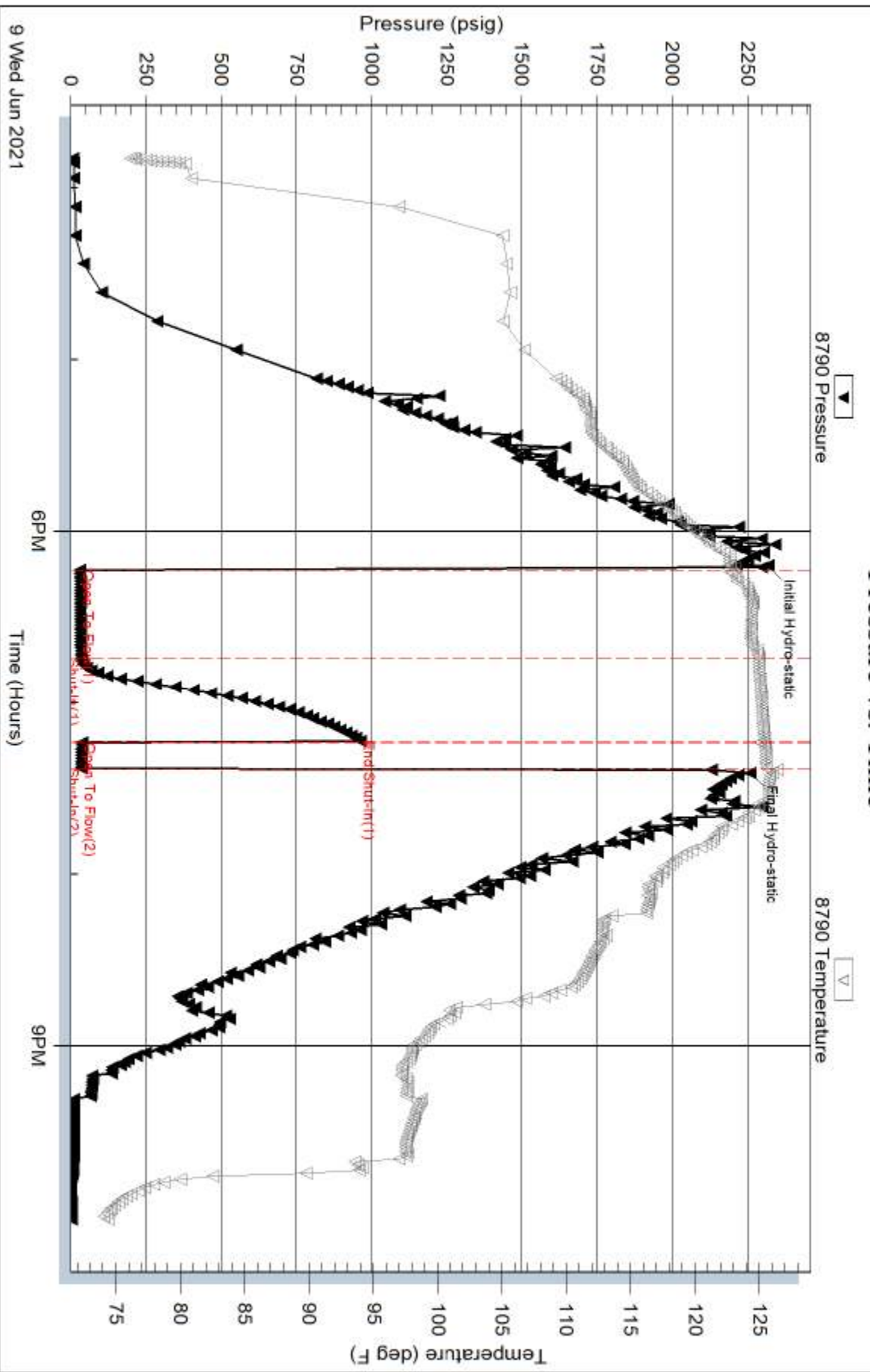
Inside

Darrah Oil Company LLC

Council 1-8

DST Test Number: 4

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 67452

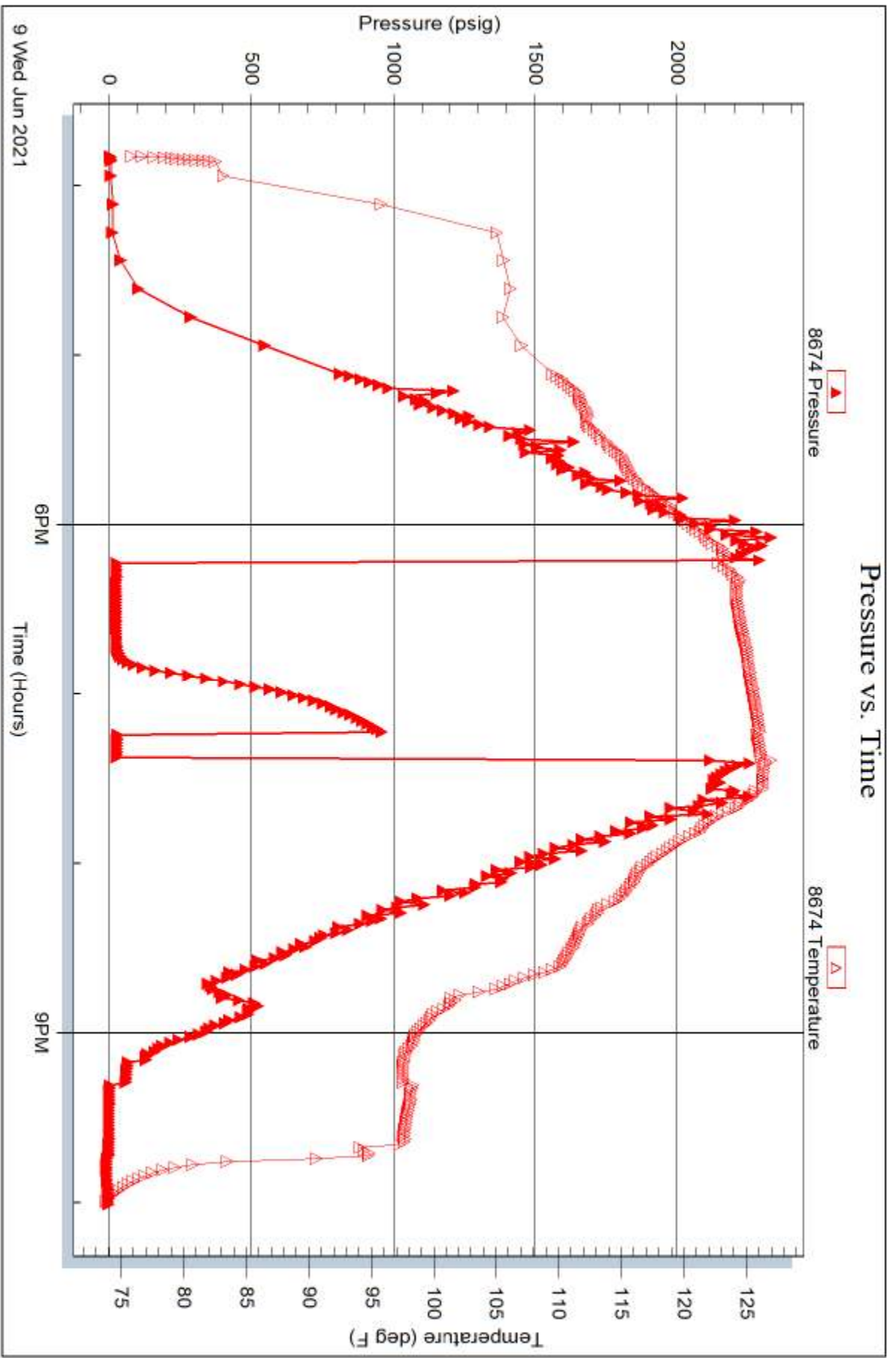
Printed: 2021.06.09 @ 22:37:22

Serial #: 8674

Outside Darrah Oil Company LLC

Council 1-8

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 67452

Printed: 2021.06.09 @ 22:37:22



Customer Darrah Oil Co		Lease & Well # Council #1-8		Date 6/11/2021	
Service District Oakley KS		County & State Logan KS		Legals S/T/R 8-12S-36W	
Job Type PTA		<input checked="" type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> SWD		Legals S/T/R New Well? <input checked="" type="checkbox"/> YES <input type="checkbox"/> No	
Equipment #		Driver		Job Safety Analysis - A Discussion of Hazards & Safety Procedures	
78	Fennis	<input checked="" type="checkbox"/> Hard hat	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging
180/520	Mike	<input checked="" type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection
205	John	<input checked="" type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection	<input checked="" type="checkbox"/> Slip/Trip/Fall Hazards	<input type="checkbox"/> Specific Job Sequence/Expectations
		<input checked="" type="checkbox"/> FRC/Protective Clothing	<input type="checkbox"/> Additional Chemical/Acid PPE	<input checked="" type="checkbox"/> Overhead Hazards	<input checked="" type="checkbox"/> Muster Point/Medical Locations
		<input checked="" type="checkbox"/> Hearing Protection	<input checked="" type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below	
Comments					
Muster point entrance of location. Person in charge of head count Mike. Nearest hospital Oakley KS. Emergency phone #911					
Product/Service Code	Description	Unit of Measure	Quantity	Net Amount	
CP055	H-Plug	sack	255.00		\$2,917.20
FE290	8 5/8" Wooden Plug	ea	1.00		\$132.00
M010	Heavy Equipment Mileage	mi	28.00		\$98.56
M015	Light Equipment Mileage	mi	28.00		\$49.28
M020	Ton Mileage	tm	318.00		\$419.76
C011	Cement Pump Service	ea	1.00		\$968.00
Customer Section: On the following scale how would you rate Hurricane Services Inc.?					
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>				Net: \$4,584.80	
Based on this job, how likely is it you would recommend HSI to a colleague? Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely				Total Taxable \$ - Tax Rate: 	
				Sale Tax: \$ -	
				Total: \$ 4,584.80	
				HSI Representative: <i>Fennis Gardano</i>	

TERMS: Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 3/4% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

X _____ **CUSTOMER AUTHORIZATION SIGNATURE**



CEMENT TREATMENT REPORT

Customer: Darrah Oil Co	Well: Council #1-8	Ticket: WP 1476
City, State:	County: Logan KS	Date: 6/11/2021
Field Rep: Fennis Garduno	S-T-R: 8-12S-36W	Service: PTA

Downhole Information	
Hole Size:	7.875 in
Hole Depth:	4500 ft
Casing Size:	8 5/8 in
Casing Depth:	280 ft
Tubing / Liner:	4 1/2 in
Depth:	2650 ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	bbls

Calculated Slurry - Lead	
Blend:	H-Plug
Weight:	13.8 ppg
Water / Sx:	6.9 gal / sx
Yield:	1.42 ft ³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	64.4 bbls
Total Sacks:	255 sx

Calculated Slurry - Tail	
Blend:	
Weight:	ppg
Water / Sx:	gal / sx
Yield:	ft ³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	0.0 bbls
Total Sacks:	0 sx

TIME	RATE	PSI	BBLs	TOTAL BBLs	REMARKS
11:15 AM			-	-	Journey management meeting
12:00 PM				-	Convey to location
1:00 PM				-	Arrive on location
1:05 PM				-	Safety meeting
1:20 PM				-	Spot in / rig up equipment
4:51 PM	9.0	200.0		-	Rig land casing @ 2650' circulate
5:06 PM	4.0	280.0	5.0	5.0	Pump fresh water spacer
5:09 PM	5.0	300.0	12.5	17.5	Mix 50 sx H-Plug @ 13.8 ppg
5:14 PM	4.0	80.0	3.0	20.5	Pump fresh water spacer
5:15 PM	9.0	180.0	31.0	51.5	Rig balance plug with mud
				51.5	TOOH to 1460'
6:05 PM	5.0	180.0	5.0		Pump fresh water spacer
6:09 PM	5.0	220.0	25.0		Mix 100 sx H-Plug @ 13.8 ppg
6:14 PM	4.0	100.0	3.0		Pump fresh water spacer
6:16 PM	9.0	80.0	12.0		Rig balance plug with mud
					TOOH to 330'
6:47 PM	4.5	80.0	5.0		Pump fresh water spacer
6:51 PM	5.0	120.0	12.5		Mix 50 sx H-Plug @ 13.8 ppg
6:55 PM	5.0	80.0	1.0		Balance plug with fresh water
					TOOH push wooden plug to 40'
7:14 PM	2.0	80.0	2.5		Mix 10 sx H-Plug @ 13.8 ppg
7:20 PM	2.0	80.0	7.5		Plug rat hole with 30 sx H-Plug @ 13.8 ppg
7:30 PM	2.0	80.0	3.7		Plug mouse hole with 15 sx H-Plug @ 13.8 ppg
					Total H-Plug mixed = 255 sx

CREW		UNIT	SUMMARY		
Cementer:	Fennis	78	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Mike	180/520	5.0 bpm	143 psi	129 bbls
Bulk #1:	John	205			
Bulk #2:					