

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](mailto: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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## DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc**

8100 E 22nd ST N # 700  
Wichita, KS 67278

ATTN: Max Lovely

### **Dirks 25 D #1**

### **25-15-36W Logan,KS**

Start Date: 2021.11.16 @ 01:35:00

End Date: 2021.11.16 @ 09:48:00

Job Ticket #: 68363                      DST #: 1

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

Printed: 2021.11.23 @ 10:10:23



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Ritchie Exploration Inc  
8100 E22nd ST N # 700  
Wichita, KS 67278  
ATTN: Max Lovely

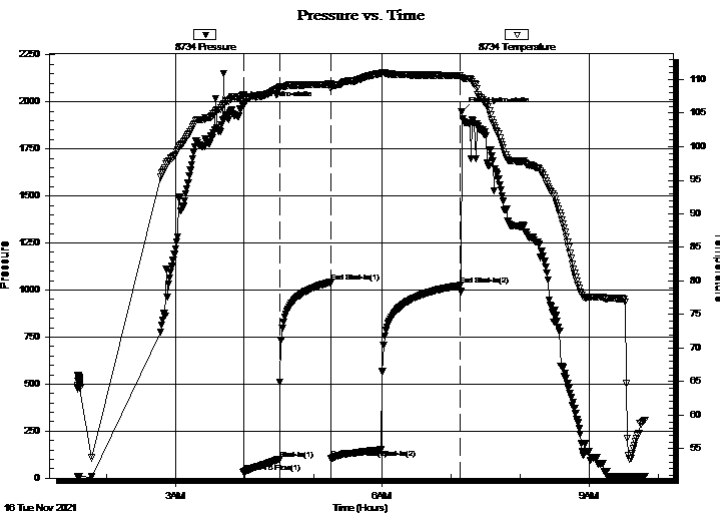
**25-15-36W Logan,KS**  
**Dirks 25 D #1**  
Job Ticket: 68363 **DST#: 1**  
Test Start: 2021.11.16 @ 01:35:00

## GENERAL INFORMATION:

Formation: **Toronto**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 03:59:10  
Time Test Ended: 09:48:00  
Interval: **3950.00 ft (KB) To 3990.00 ft (KB) (TVD)**  
Total Depth: 3990.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Martine Salinas  
Unit No: 81  
Reference Elevations: 3256.00 ft (KB)  
3247.00 ft (CF)  
KB to GR/CF: 9.00 ft

**Serial #: 8734 Outside**  
Press@RunDepth: 151.25 psig @ 3951.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2021.11.16 End Date: 2021.11.16 Last Calib.: 2021.11.16  
Start Time: 01:35:01 End Time: 09:48:00 Time On Btm: 2021.11.16 @ 03:59:00  
Time Off Btm: 2021.11.16 @ 07:09:00

TEST COMMENT: 30-IF-S.blow built to 5 1/2"  
45-ISI-No return  
45-FF-S.blow built to 6 1/2"  
60-FSI-No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1979.54	107.70	Initial Hydro-static
1	32.15	106.74	Open To Flow (1)
32	101.27	108.79	Shut-In(1)
76	1040.78	109.32	End Shut-In(1)
76	103.88	108.68	Open To Flow (2)
121	151.25	110.92	Shut-In(2)
189	1024.02	110.62	End Shut-In(2)
190	1949.04	110.25	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
190.00	MCW 15%M, 85%W	0.93
60.00	Mud W/Oil spots 100%M	0.60

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Ritchie Exploration Inc

**25-15-36W Logan,KS**

8100 E 22nd ST N# 700  
Wichita, KS 67278

**Dirks 25 D #1**

Job Ticket: 68363

**DST#: 1**

ATTN: Max Lovely

Test Start: 2021.11.16 @ 01:35:00

## Tool Information

Drill Pipe:	Length: 3728.00 ft	Diameter: 3.80 inches	Volume: 52.29 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 217.00 ft	Diameter: 2.25 inches	Volume: 1.07 bbl	Weight to Pull Loose: 82000.00 lb
			<u>Total Volume: 53.36 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	3950.00 ft			Final 71000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	68.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3923.00	
Shut In Tool	5.00			3928.00	
Hydraulic tool	5.00	1018		3933.00	
Jars	5.00	01-07		3938.00	
Safety Joint	3.00	-001		3941.00	
Packer	5.00			3946.00	28.00 Bottom Of Top Packer
Packer	4.00			3950.00	
Stubb	1.00			3951.00	
Recorder	0.00	8959	Inside	3951.00	
Recorder	0.00	8734	Outside	3951.00	
Perforations	34.00			3985.00	
Bullnose	5.00			3990.00	40.00 Bottom Packers & Anchor

**Total Tool Length: 68.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Ritchie Exploration Inc  
8100 E 22nd ST N # 700  
Wichita, KS 67278  
ATTN: Max Lovely

**25-15-36W Logan,KS**  
**Dirks 25 D #1**  
Job Ticket: 68363      **DST#: 1**  
Test Start: 2021.11.16 @ 01:35:00

### 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:	18000 ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.19 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3500.00 ppm			
Filter Cake: 1.00 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
190.00	MCW 15%M, 85%W	0.934
60.00	Mud W/Oil spots 100%M	0.596

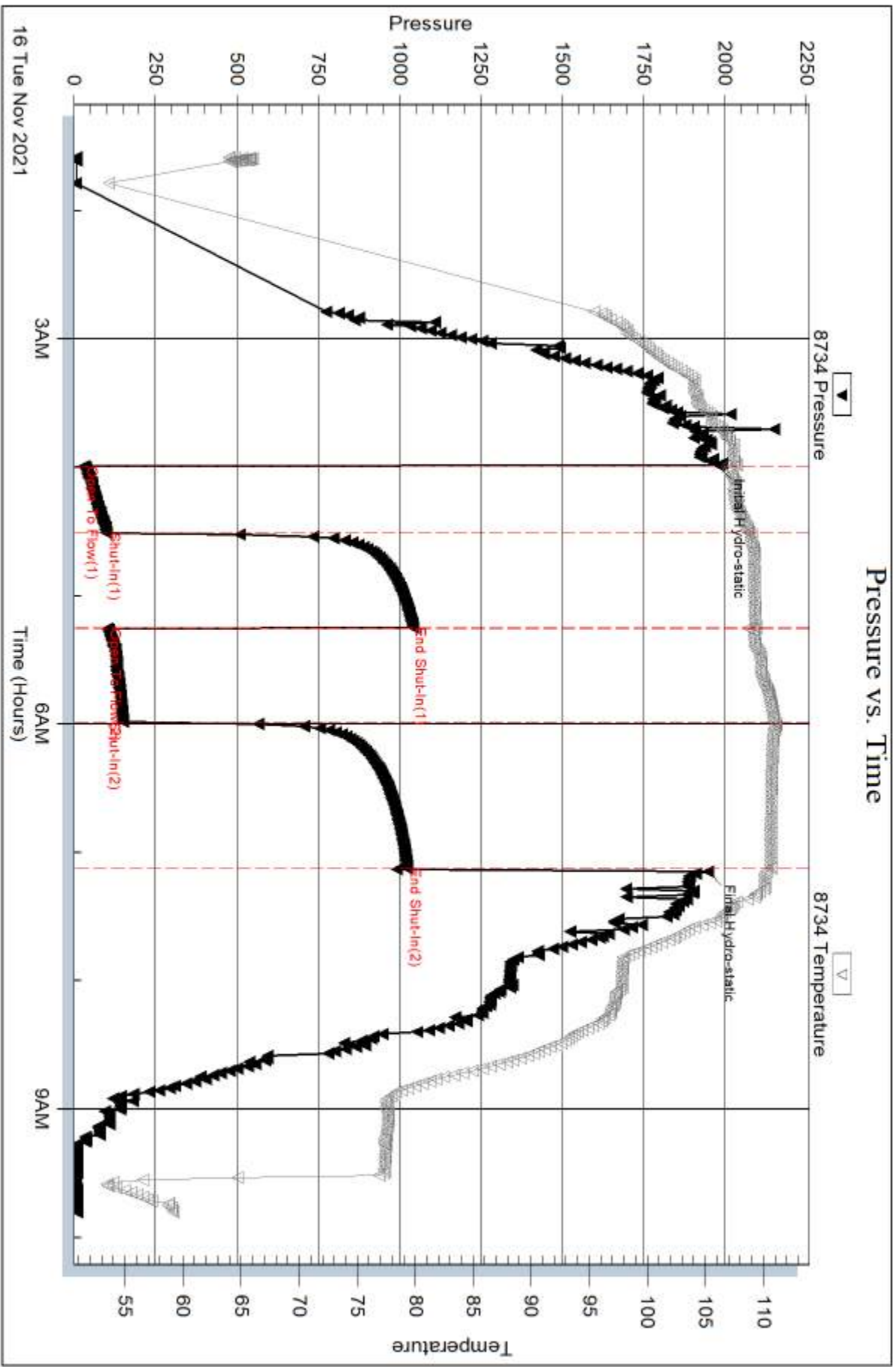
Total Length: 250.00 ft      Total Volume: 1.530 bbl

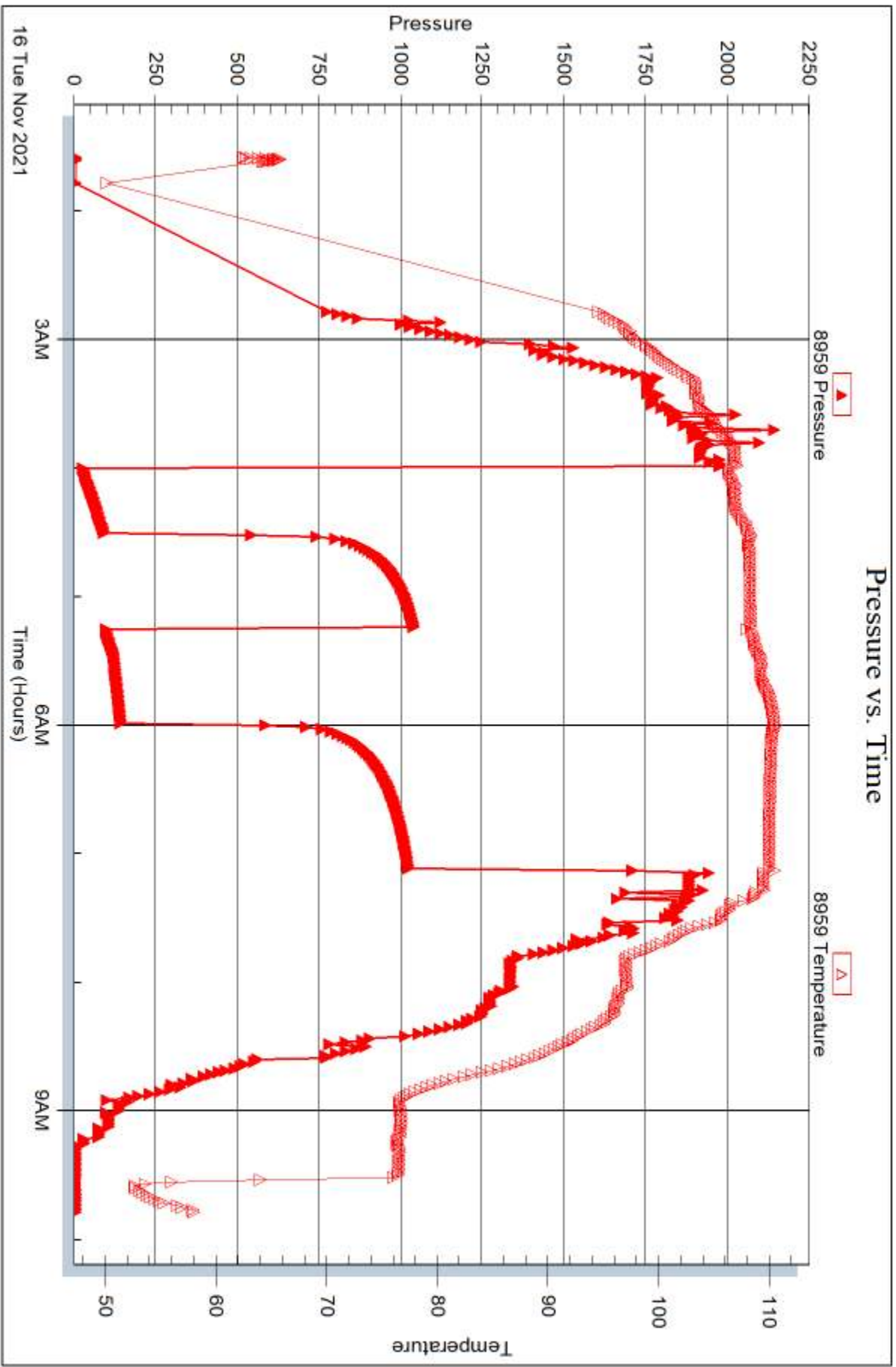
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments: RW= .475 @ 57.2 degs = 18,000 PPM









## DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc**

8100 E 22nd ST N # 700  
Wichita, KS 67278

ATTN: Max Lovely

### **Dirks 25 D #1**

### **25-15-36W Logan,KS**

Start Date: 2021.11.17 @ 02:30:00

End Date: 2021.11.17 @ 09:36:30

Job Ticket #: 68364                      DST #: 2

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

Printed: 2021.11.23 @ 10:09:15



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Ritchie Exploration Inc  
 8100 E22nd ST N # 700  
 Wichita, KS 67278  
 ATTN: Max Lovely

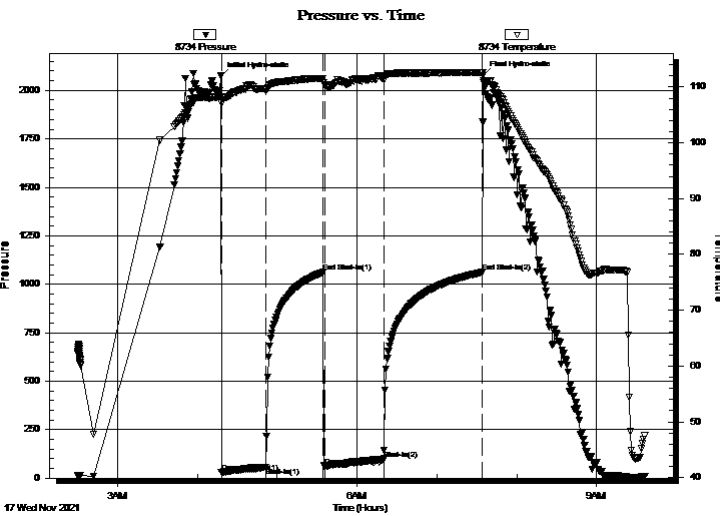
**25-15-36W Logan,KS**  
**Dirks 25 D #1**  
 Job Ticket: 68364 **DST#: 2**  
 Test Start: 2021.11.17 @ 02:30:00

## GENERAL INFORMATION:

Formation: **Lansing " E "**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 04:18:00  
 Time Test Ended: 09:36:30  
 Interval: **4088.00 ft (KB) To 4114.00 ft (KB) (TVD)**  
 Total Depth: 4114.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Martine Salinas  
 Unit No: 81  
 Reference Elevations: 3256.00 ft (KB)  
 3247.00 ft (CF)  
 KB to GR/CF: 9.00 ft

**Serial #: 8734 Outside**  
 Press@RunDepth: 99.49 psig @ 4089.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2021.11.17 End Date: 2021.11.17 Last Calib.: 2021.11.17  
 Start Time: 02:30:01 End Time: 09:36:30 Time On Btm: 2021.11.17 @ 04:17:50  
 Time Off Btm: 2021.11.17 @ 07:34:39

TEST COMMENT: 30-IF-S.blow built to 2"  
 45-ISI-No return  
 45-FF-S.blow built to 1 1/2"  
 60-FSI-No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2073.39	108.29	Initial Hydro-static
1	29.38	107.12	Open To Flow (1)
34	54.11	109.48	Shut-In(1)
77	1061.66	111.58	End Shut-In(1)
78	58.63	110.34	Open To Flow (2)
123	99.49	111.80	Shut-In(2)
196	1061.47	112.63	End Shut-In(2)
197	2076.90	112.01	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
125.00	MCW W/Oil spots 27%M, 73%W	0.61
0.00	Heavy oil in tool	0.00

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Ritchie Exploration Inc  
8100 E 22nd ST N# 700  
Wichita, KS 67278  
ATTN: Max Lovely

**25-15-36W Logan,KS**  
**Dirks 25 D #1**  
Job Ticket: 68364      **DST#: 2**  
Test Start: 2021.11.17 @ 02:30:00

**Tool Information**

Drill Pipe:	Length: 3855.00 ft	Diameter: 3.80 inches	Volume: 54.08 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 217.00 ft	Diameter: 2.25 inches	Volume: 1.07 bbl	Weight to Pull Loose: 82000.00 lb
			<u>Total Volume: 55.15 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4088.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	54.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Change Over Sub	1.00			4061.00	
Shut In Tool	5.00			4066.00	
Hydraulic tool	5.00	1018		4071.00	
Jars	5.00	01-07		4076.00	
Safety Joint	3.00	-001		4079.00	
Packer	5.00			4084.00	28.00 Bottom Of Top Packer
Packer	4.00			4088.00	
Stubb	1.00			4089.00	
Recorder	0.00	8959	Inside	4089.00	
Recorder	0.00	8734	Outside	4089.00	
Perforations	20.00			4109.00	
Bullnose	5.00			4114.00	26.00 Bottom Packers & Anchor

**Total Tool Length: 54.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Ritchie Exploration Inc

**25-15-36W Logan,KS**

8100 E22nd ST N# 700  
Wichita, KS 67278

**Dirks 25 D #1**

Job Ticket: 68364

**DST#: 2**

ATTN: Max Lovely

Test Start: 2021.11.17 @ 02:30:00

### 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:

7500 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3700.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
125.00	MCW W/Oil spots 27%M, 73%W	0.615
0.00	Heavy oil in tool	0.000

Total Length: 125.00 ft      Total Volume: 0.615 bbl

Num Fluid Samples: 0

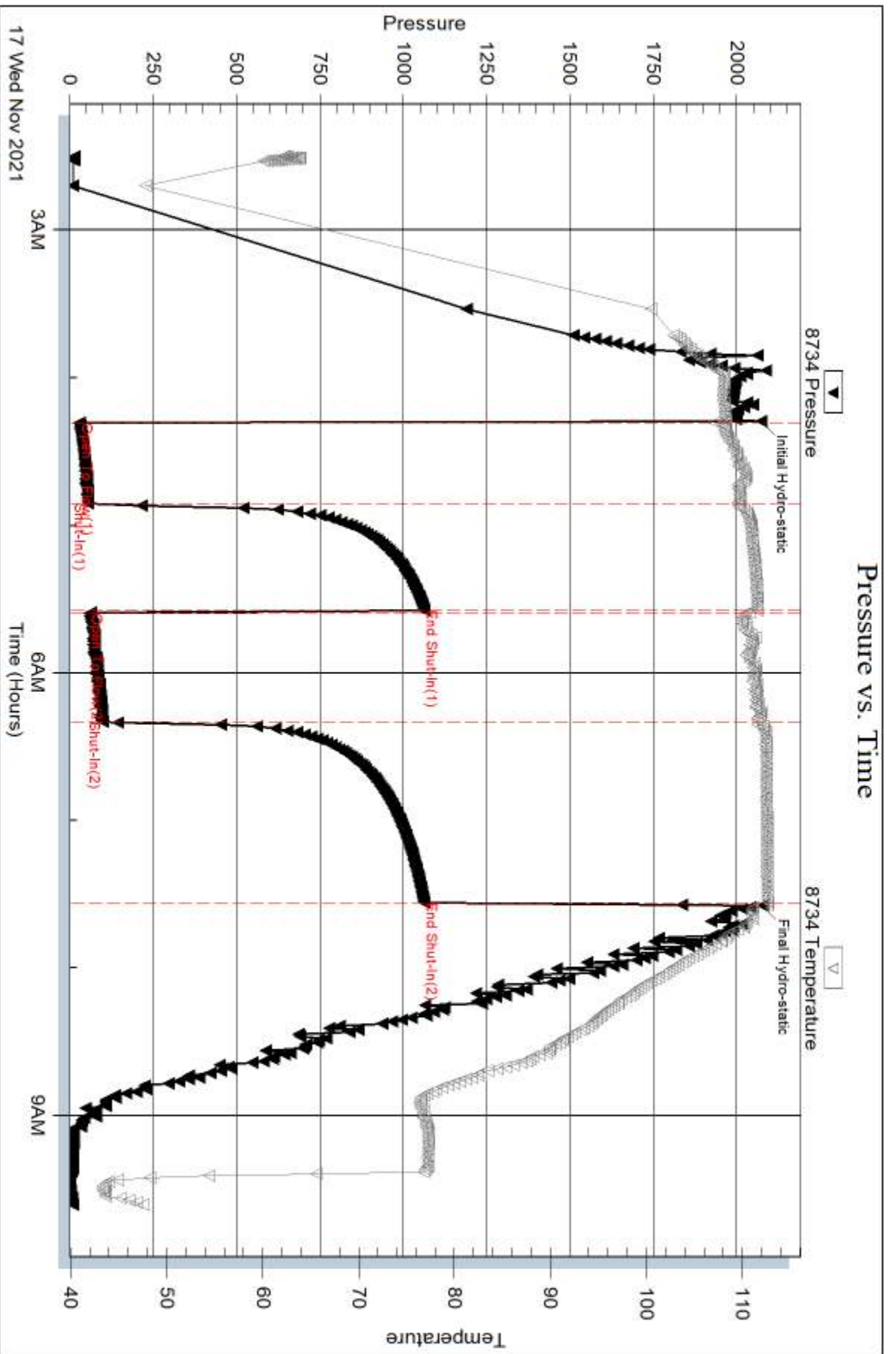
Num Gas Bombs: 0

Serial #:

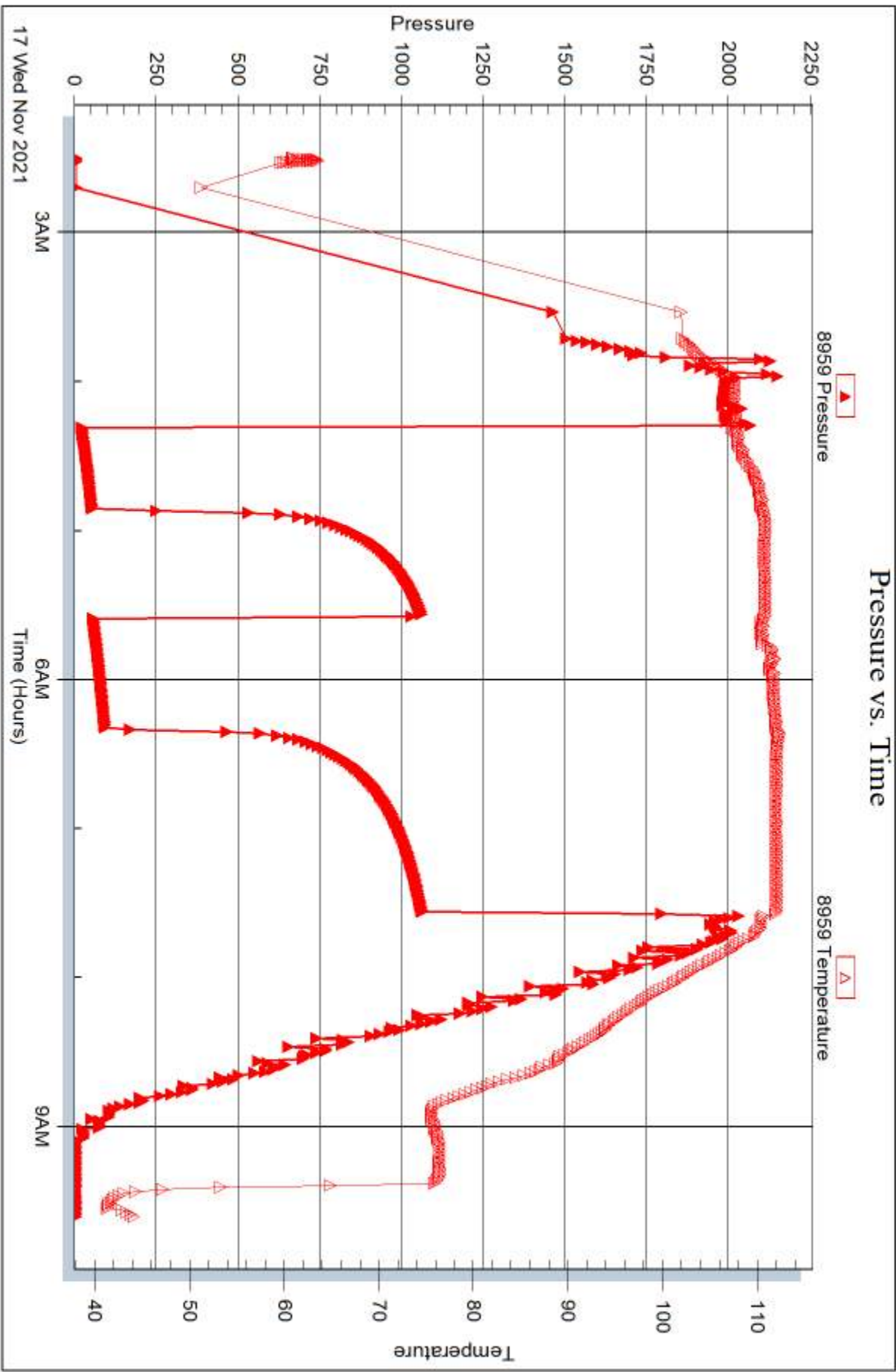
Laboratory Name:

Laboratory Location:

Recovery Comments: RW= 1.25 @ 46.3 degs = 7500 PPM









## DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc**

8100 E 22nd ST N # 700  
Wichita, KS 67278

ATTN: Max Lovely

### **Dirks 25 D #1**

### **25-15-36W Logan,KS**

Start Date: 2021.11.18 @ 22:14:00

End Date: 2021.11.19 @ 05:18:00

Job Ticket #: 68365                      DST #: 3

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

Printed: 2021.11.23 @ 10:03:05



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Ritchie Exploration Inc  
 8100 E 22nd ST N # 700  
 Wichita, KS 67278  
 ATTN: Max Lovely

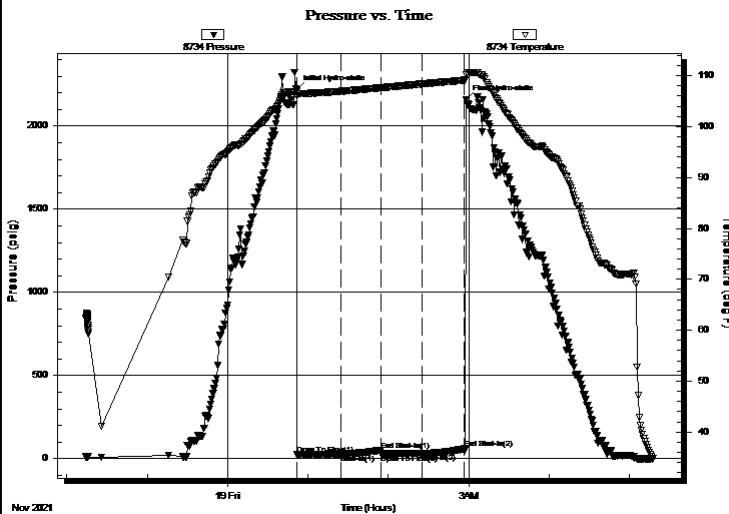
**25-15-36W Logan, KS**  
**Dirks 25 D #1**  
 Job Ticket: 68365 **DST#: 3**  
 Test Start: 2021.11.18 @ 22:14:00

## GENERAL INFORMATION:

Formation: **Altamont**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 00:52:00 Tester: Martine Salinas  
 Time Test Ended: 05:18:00 Unit No: 81  
 Interval: **4394.00 ft (KB) To 4411.00 ft (KB) (TVD)** Reference Elevations: 3256.00 ft (KB)  
 Total Depth: 4411.00 ft (KB) (TVD) 3247.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 9.00 ft

**Serial #: 8734 Outside**  
 Press@RunDepth: 30.02 psig @ 4395.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2021.11.18 End Date: 2021.11.19 Last Calib.: 2021.11.19  
 Start Time: 22:14:01 End Time: 05:18:00 Time On Btm: 2021.11.19 @ 00:51:50  
 Time Off Btm: 2021.11.19 @ 02:58:20

**TEST COMMENT:** 30-IF-S.blow built to 1/4" @ 10 mins & maintained blow  
 30-ISI-No return  
 30-FF- No blow  
 30-FSI-No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2217.09	106.96	Initial Hydro-static
1	28.96	106.13	Open To Flow (1)
33	29.55	106.95	Shut-In(1)
63	52.55	107.65	End Shut-In(1)
63	29.15	107.64	Open To Flow (2)
94	30.02	108.38	Shut-In(2)
125	60.11	109.12	End Shut-In(2)
127	2158.92	110.26	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	100% Mud w /Oil spots	0.02

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Ritchie Exploration Inc  
8100 E 22nd ST N# 700  
Wichita, KS 67278  
ATTN: Max Lovely

**25-15-36W Logan,KS**  
**Dirks 25 D #1**  
Job Ticket: 68365 **DST#: 3**  
Test Start: 2021.11.18 @ 22:14:00

## Tool Information

Drill Pipe:	Length: 4174.00 ft	Diameter: 3.80 inches	Volume: 58.55 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 217.00 ft	Diameter: 2.25 inches	Volume: 1.07 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 59.62 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 76000.00 lb
Depth to Top Packer:	4394.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 ft			
Tool Length:	45.00 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			4367.00	
Shut In Tool	5.00			4372.00	
Hydraulic tool	5.00	1018		4377.00	
Jars	5.00	01-07		4382.00	
Safety Joint	3.00	-001		4385.00	
Packer	5.00			4390.00	28.00 Bottom Of Top Packer
Packer	4.00			4394.00	
Stubb	1.00			4395.00	
Recorder	0.00	8959	Inside	4395.00	
Recorder	0.00	8734	Outside	4395.00	
Perforations	11.00			4406.00	
Bullnose	5.00			4411.00	17.00 Bottom Packers & Anchor

**Total Tool Length: 45.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Ritchie Exploration Inc

**25-15-36W Logan,KS**

8100 E 22nd ST N# 700  
Wichita, KS 67278

**Dirks 25 D #1**

Job Ticket: 68365

**DST#: 3**

ATTN: Max Lovely

Test Start: 2021.11.18 @ 22:14:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	100% Mud w /Oil spots	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

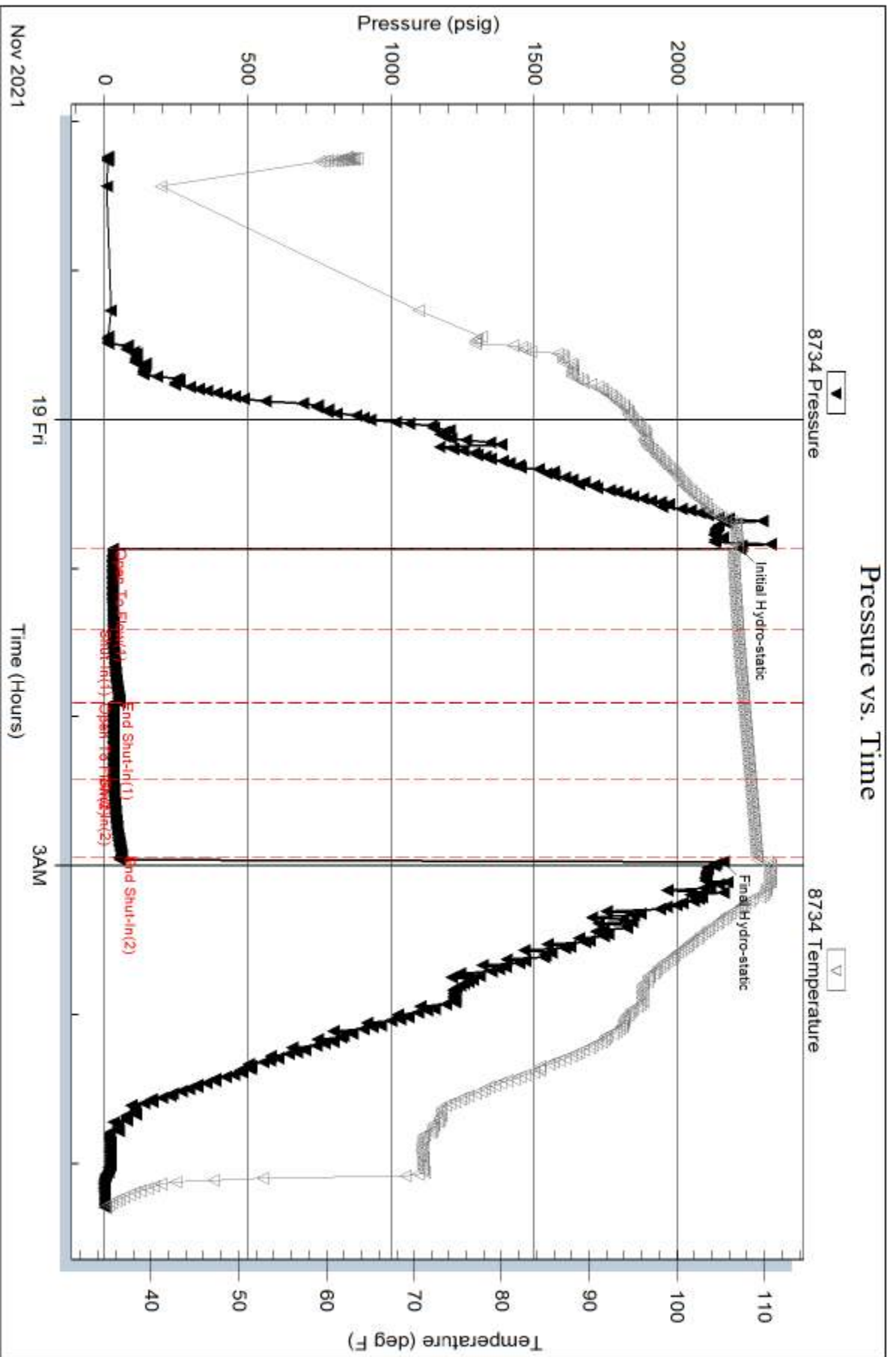
Num Gas Bombs: 0

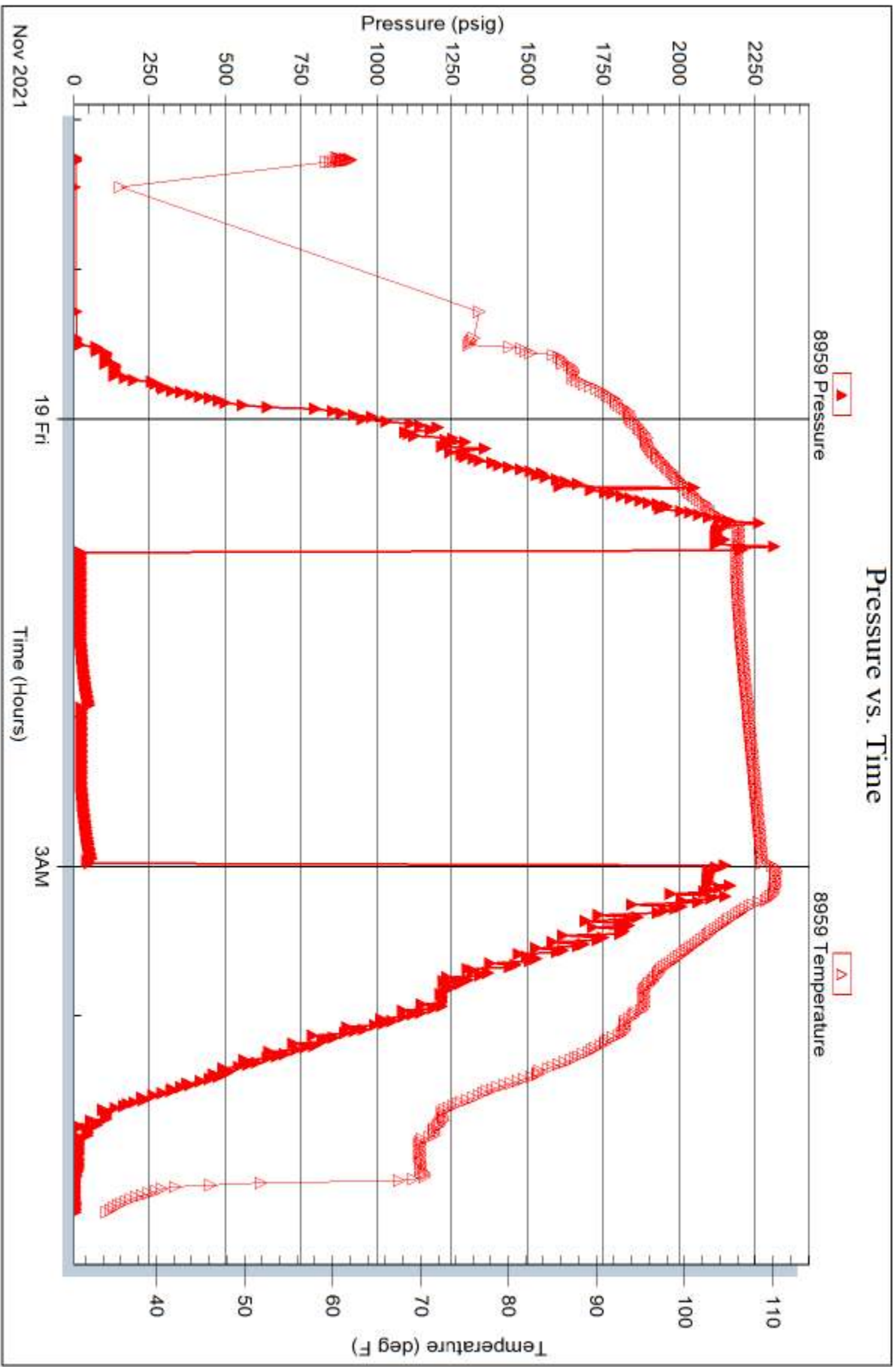
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:









# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 68363

Well Name & No. #1 Dirks 25 D Test No. 1 Date 11-15-21  
 Company Ritchie Exploration INC Elevation 3256 KB 3247 GL  
 Address 8100 E 22nd ST N #700 Wichita, KS 67278  
 Co. Rep / Geo. Max Lowly Rig Sterling #04  
 Location: Sec. 25 Twp 15 Rge. 36W. Co. Logan State KS.

Interval Tested 3950 - 3990 Zone Tested Turonto.  
 Anchor Length 40 Drill Pipe Run 3728 Mud Wt. 9.1  
 Top Packer Depth 3945 Drill Collars Run 217 Vis 55  
 Bottom Packer Depth 3950 Wt. Pipe Run — WL 7.2  
 Total Depth 3990 Chlorides 3500 ppm System LCM 3#

Blow Description IF - S. blow built to 5 1/2"  
ISS - No return.  
FF - S. blow built to 6 1/2"  
FST - No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>190</u>	<u>Feet of MCW</u>		<u>85</u>	<u>15</u>	
<u>60</u>	<u>Feet of Mud w/oil spots.</u>			<u>100</u>	

Rec Total 250 BHT 110 Gravity — API RW 475 @ 57.2 °F Chlorides 18,000 ppm

(A) Initial Hydrostatic 1980  Test 1300 T-On Location 23:45.  
 (B) First Initial Flow 32  Jars 250 T-Started 01:35  
 (C) First Final Flow 101  Safety Joint 75 T-Open 04:00  
 (D) Initial Shut-In 1041  Circ Sub \_\_\_\_\_ T-Pulled 07:00  
 (E) Second Initial Flow 104  Hourly Standby \_\_\_\_\_ T-Out 09:49  
 (F) Second Final Flow 151  Mileage 108 RT 135 Comments \_\_\_\_\_  
 (G) Final Shut-In 1024  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1949  Straddle \_\_\_\_\_  EM Tool \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 30  Day Standby \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 45  Accessibility \_\_\_\_\_ Total 1760  
 Final Flow 45 Sub Total 1760 MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 60

Approved By [Signature] Our Representative [Signature]  
 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. 68364

Well Name & No. #1 Dirks 25D Test No. 2 Date 11-17-21  
 Company Ritchie Exploration, Inc. Elevation 3256 KB 3247 GL  
 Address 8100 E 22nd ST N #700 Wichita, KS 67278  
 Co. Rep / Geo. Max Lovely Rig Sterling #4  
 Location: Sec. 25 Twp 15 Rge. 36W. Co. Logan State KS

Interval Tested 4088 - 4114 Zone Tested Lansing "E"  
 Anchor Length 26' Drill Pipe Run 3855 Mud Wt. 9.0  
 Top Packer Depth 4083 Drill Collars Run 217 Vis 60  
 Bottom Packer Depth 4088 Wt. Pipe Run — WL 7.2  
 Total Depth 4114 Chlorides 3700 ppm System LCM 3#  
 Blow Description IF - S. blow built to 2"  
ISI - No return.  
FF - S. blow built to 1 1/2"  
FSI - No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>125</u>	<u>MCW w/out spots</u>		<u>73</u>	<u>27</u>	
<u>0</u>	<u>Heavy Oil in tool</u>				

Rec Total 125 BHT 112 Gravity — API RW 1.25 @ 46.3 °F Chlorides 7500 ppm

(A) Initial Hydrostatic <u>2073</u>	<input checked="" type="checkbox"/> Test <u>1450</u>	T-On Location <u>02:00</u>
(B) First Initial Flow <u>29</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>02:30</u>
(C) First Final Flow <u>54</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>04:20</u>
(D) Initial Shut-In <u>1062</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>07:20</u>
(E) Second Initial Flow <u>59</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>09:37</u>
(F) Second Final Flow <u>99</u>	<input checked="" type="checkbox"/> Mileage <u>108 RT</u> <u>135</u>	Comments
(G) Final Shut-In <u>1061</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2077</u>	<input type="checkbox"/> Straddle	
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> EM Tool
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Day Standby	<input type="checkbox"/> Extra Copies
	<input type="checkbox"/> Accessibility	Sub Total <u>0</u>
	Sub Total <u>1910</u>	Total <u>1910</u>
		MP/DST Disc't

Approved By [Signature] Our Representative [Signature]  
 Tritobite 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. 68365

Well Name & No. #1 Dirks 25 D Test No. 3 Date 11-18-21  
 Company Ritchie Exploration Inc. Elevation 3256 KB 3247 GL  
 Address 8100 E 22<sup>nd</sup> ST N 700 Wichita, KS 67278  
 Co. Rep / Geo. Max Lovely Rig Sterling#4  
 Location: Sec. 25 Twp 15 Rge. 36W. Co. Logan State KS.

Interval Tested 4394-4411 Zone Tested Altamont  
 Anchor Length 17' Drill Pipe Run 4174 Mud Wt. 9.2  
 Top Packer Depth 4389 Drill Collars Run 217 Vis 56  
 Bottom Packer Depth 4394 Wt. Pipe Run --- WL 8.8  
 Total Depth 4411 Chlorides 4500 ppm System LCM 4#

Blow Description IF - S. blow built 1/4" @ 10 min & maintained  
ISI - No return.  
FF - No blow  
FSI - No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud w/oil spots</u>			<u>100</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 5 BHT 110 Gravity --- API RW --- @ --- °F Chlorides --- ppm

(A) Initial Hydrostatic 2217  Test 1450 T-On Location 22:00  
 (B) First Initial Flow 29  Jars 250 T-Started 22:15  
 (C) First Final Flow 30  Safety Joint 75 T-Open 00:55  
 (D) Initial Shut-In 53  Circ Sub T-Pulled 02:55  
 (E) Second Initial Flow 29  Hourly Standby T-Out 05:20  
 (F) Second Final Flow 30  Mileage 108 RT x 2 270 Comments Tools loaded @  
 (G) Final Shut-In 60  Sampler 19:00 11-21-21  
 (H) Final Hydrostatic 2159  Straddle  EM Tool

Initial Open 30  Shale Packer  Ruined Shale Packer  
 Initial Shut-In 30  Extra Packer  Ruined Packer  
 Final Flow 30  Extra Recorder  Extra Copies  
 Final Shut-In 30  Day Standby 3 2d 15.75h Sub Total 1600  
 Accessibility Total 3645  
 Sub Total 2045 MP/DST Disc't

Approved By [Signature] Our Representative [Signature]

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.





**#1 Dirks 25D**

920' FSL & 2,305' FEL

70' S & 5' E of NW SW SE Section 25-15S-36W

Logan County, Kansas

API# 15-109-21628-0000

Elevation: GL: 3,245', KB: 3,256'

**DRILLING REPORT**

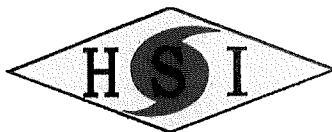
Sample Tops

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Anhydrite	2518	+738
B/Anhydrite	2537	+719
Stotler	3601	-345
Heebner	3955	-699
Toronto	3971	-715
Lansing	3997	-741
Muncie	4178	-922
Stark	4273	-1017
Hushpuckney	4317	-1061
BKC	4348	-1092
Marmaton	4390	-1134
Altamont	4399	-1143
Pawnee	4474	-1218
Myrick	4520	-1264
Ft Scott	4530	-1274
Cherokee	4556	-1300
Johnson	4618	-1362
Morrow	4683	-1427
Mississippi	4785	-1529
RTD	4866	-1610







<b>Customer</b>	Ritchie Exporation	<b>Lease &amp; Well #</b>	Dirks 25 D # 1	<b>Date</b>	11/22/2021
<b>Service District</b>	Oakley KS	<b>County &amp; State</b>	Logan KS	<b>Legals S/T/R</b>	25-15S-36W
<b>Job Type</b>	PTA	<input checked="" type="checkbox"/> PROD	<input type="checkbox"/> INJ	<input type="checkbox"/> SWD	<b>Job #</b>
<b>Equipment #</b>	<b>Driver</b>	<b>Job Safety Analysis - A Discussion of Hazards &amp; Safety Procedures</b>			
73	Josh	<input checked="" type="checkbox"/> Hard hat	<input checked="" type="checkbox"/> Gloves	<input checked="" type="checkbox"/> Lockout/Tagout	<input checked="" type="checkbox"/> Warning Signs & Flagging
208	John	<input checked="" type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input checked="" type="checkbox"/> Required Permits	<input checked="" type="checkbox"/> Fall Protection
165/250	Kale	<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	
<b>Comments</b>					

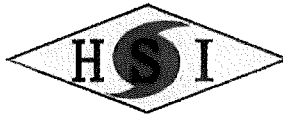
Product/ Service Code	Description	Unit of Measure	Quantity	List Price/Unit	Gross Amount	Item Discount	Net Amount
D012	Depth Charge: 1001'-2000'	job	1.00				\$1,350.00
M010	Heavy Equipment Mileage	mi	50.00				\$180.00
M015	Light Equipment Mileage	mi	50.00				\$90.00
M020	Ton Mileage	tm	548.00				\$739.80
CP055	H-Plug	sack	255.00				\$2,983.50

<b>Customer Section: On the following scale how would you rate Hurricane Services Inc.?</b>				<b>Gross:</b>		<b>Net:</b>	\$5,343.30
Based on this job, how likely is it you would recommend HSI to a colleague? <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"/> <input type="checkbox"/> Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely				<b>Total Taxable</b>	\$ -	<b>Tax Rate:</b>	
				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.		<b>Sale Tax:</b>	\$ -
						<b>Total:</b>	\$ 5,343.30
				HSI Representative: <i>Josh Mosier</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 1/2% 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: <b>Ritchie Exporation</b>	Well: <b>Dirks 25 D # 1</b>	Tickets: <b>WP2119</b>
City, State: <b>Oakley KS</b>	County: <b>Logan KS</b>	Date: <b>11/22/2021</b>
Field Rep: <b>Josh Mosler</b>	S-T-R: <b>25-15S-36W</b>	Service: <b>PTA</b>

Downhole Information	
Hole Size:	<b>7.875 In</b>
Hole Depth:	<b>4688 ft</b>
Casing Size:	<b>In</b>
Casing Depth:	<b>ft</b>
Tubing / Liner:	<b>in</b>
Depth:	<b>ft</b>
Tool / Packer:	
Tool Depth:	<b>ft</b>
Displacement:	<b>bbls</b>

Calculated Slurry - Lead	
Blend:	<b>H- plug</b>
Weight:	<b>13.8 ppg</b>
Water / Sx:	<b>6.9 gal / sx</b>
Yield:	<b>1.41 ft<sup>3</sup> / sx</b>
Annular Bbls / Ft.:	<b>0.0406 bbs / ft.</b>
Depth:	<b>2550 ft</b>
Annular Volume:	<b>103.5 bbls</b>
Excess:	
Total Slurry:	<b>64.0 bbls</b>
Total Sacks:	<b>255 sx</b>

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

TIME	RATE	PSI	BBLs	TOTAL BBLs	REMARKS
1200A			-	-	GOT TO LOCATION/ RIG WAS PULLING DRILL COLLARS
1205A				-	SAFETY MEETING
1210A				-	RIGGED UP TRUCKS
227A	3.0	260.0	5.0	5.0	PUMPED H2O AHEAD
228A	3.2	600.0	12.6	17.6	PUMPED 60 SKS OF H- PLUG @ 2550 FT
232A	3.0	260.0	5.0	22.6	DISPLACED WITH H2O
236A				22.6	FINISHED DISPLACMENT WITH RIG PUMP
323A	3.0	175.0	5.0	27.6	PUMPED H2O AHEAD
326A	3.2	200.0	25.2	52.8	PUMPED 100 SKS OF H- PLUG @ 1375 FT
333A	3.0	175.0	5.0	57.8	DISPLACED WITH H2O
336A				57.8	FINISHED DISPLACMENT WITH RIG PUMP
411A	3.0	175.0	5.0		PUMPED H2O AHEAD
413A	3.0	175.0	12.6		PUMPED 60 SKS OF H- PLUG @ 300FT
417A			1.0		DISPLACED WITH H2O
440A	1.5	160.0	2.5		PUMPED 10 SKS OF H- PLUG @ 40 FT
464A	1.5	160.0	7.5		PUMPED 30 SKS OF H- PLUG IN HR
500A	1.5	160.0	3.8		PUMPED 15 SKS OF H- PLUG IN MH
505A					PLUG DOWN
506A					WASHED UP PUMP TRUCK
510A					RIGGED DOWN TRUCKS
530A					OFF LOCATION

CREW		UNIT	SUMMARY		
Cementer:	<b>Josh</b>	<b>73</b>	Average Rate	Average Pressure	Total Fluid
Pump Operator:	<b>John</b>	<b>208</b>	<b>2.6 bpm</b>	<b>214 psi</b>	<b>90 bbls</b>
Bulk #1:	<b>Kale</b>	<b>165/250</b>			
Bulk #2:					



**CEMENT TREATMENT REPORT**

Customer: <b>Ritche Exporation</b>	Well: <b>Dirks 25 D # 1</b>	Ticket: <b>WP2119</b>
City, State: <b>Oakley KS</b>	County: <b>Logan KS</b>	Date: <b>11/22/2021</b>
Field Rep: <b>Josh Mosier</b>	S-T-R: <b>25-15S-36W</b>	Service: <b>PTA</b>

Downhole Information	
Hole Size:	7.875 in
Hole Depth:	4688 ft
Casing Size:	in
Casing Depth:	ft
Tubing / Liner:	in
Depth:	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:	1.41 ft <sup>3</sup> / sx
Annular Bbls / Ft.:	0.0406 bbs / ft.
Depth:	2550 ft
Annular Volume:	103.5 bbls
Excess:	
Total Slurry:	64.0 bbls
Total Sacks:	255 sx

Calculated Slurry - Tail	
Blend:	
Weight:	ppg
Water / Sx:	gal / sx
Yield:	ft <sup>3</sup> / 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	STAGE TOTAL BBLs	REMARKS
1200A			-	-	GOT TO LOCATION/ RIG WAS PULLING DRILL COLLARS
1205A				-	SAFETY MEETING
1210A				-	RIGGED UP TRUCKS
227A	3.0	250.0	5.0	5.0	PUMPED H2O AHEAD
228A	3.2	500.0	12.6	17.6	PUMPED 50 SKS OF H- PLUG @ 2550 FT
232A	3.0	250.0	5.0	22.6	DISPLACED WITH H2O
235A				22.6	FINISHED DISPLACMENT WITH RIG PUMP
323A	3.0	175.0	5.0	27.6	PUMPED H2O AHEAD
325A	3.2	200.0	25.2	52.8	PUMPED 100 SKS OF H- PLUG @ 1375 FT
333A	3.0	175.0	5.0	57.8	DISPLACED WITH H2O
336A				57.8	FINISHED DISPLACMENT WITH RIG PUMP
411A	3.0	175.0	5.0		PUMPED H2O AHEAD
413A	3.0	175.0	12.6		PUMPED 50 SKS OF H- PLUG @ 300FT
417A			1.0		DISPLACED WITH H2O
440A	1.5	150.0	2.5		PUMPED 10 SKS OF H- PLUG @ 40 FT
454A	1.5	150.0	7.5		PUMPED 30 SKS OF H- PLUG IN HR
500A	1.5	150.0	3.8		PUMPED 15 SKS OF H- PLUG IN MH
505A					PLUG DOWN
506A					WASHED UP PUMP TRUCK
510A					RIGGED DOWN TRUCKS
530A					OFF LOCATION

CREW		UNIT	SUMMARY		
Cementer:	Josh	73	Average Rate	Average Pressure	Total Fluid
Pump Operator:	John	208	2.6 bpm	214 psi	90 bbls
Bulk #1:	Kale	165/250			
Bulk #2:					



Customer	Ritchie Exporation	Lease & Well #	Dirks 25 D # 1	Date	11/22/2021
Service District	Oakley KS	County & State	Logan KS	Legals S/T/R	25-15S-36W
Job Type	PTA	<input checked="" type="checkbox"/> PROD	<input type="checkbox"/> INJ	<input type="checkbox"/> SWD	New Well? <input checked="" type="checkbox"/> YES <input type="checkbox"/> No
Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures			

73	Josh	<input checked="" type="checkbox"/> Hard hat	<input checked="" type="checkbox"/> Gloves	<input checked="" type="checkbox"/> Lockout/Tagout	<input checked="" type="checkbox"/> Warning Signs & Flagging
208	John	<input checked="" type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input checked="" type="checkbox"/> Required Permits	<input checked="" type="checkbox"/> Fall Protection
165/260	Kale	<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	
<b>Comments</b>					

Product/ Service Code	Description	Unit of Measure	Quantity	Net Amount
D015	Depth Charge: 4001'-5000'	job	1.00	\$2,250.00
M010	Heavy Equipment Mileage	mi	50.00	\$180.00
M015	Light Equipment Mileage	mi	50.00	\$90.00
M020	Ton Mileage	tm	567.37	\$765.95
CP055	H-Plug	sack	255.00	\$2,983.50
FE290	8 5/8" Wooden Plug	ea	1.00	\$153.00

Customer Section: On the following scale how would you rate Hurricane Services Inc.?			Net:	\$6,422.45
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"/>	Tax Rate:	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sale Tax:	\$ -
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Total:	\$ 6,422.45
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HSI Representative: <i>Josh Master</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 1/2% 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**