

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) (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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**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Ritchie Exploratipon  
PO Box 783188  
Wichita,  
ks 67278  
ATTN: Max Lovely

**35 16s 37w Wichita, Ks**

**Whitham 35D #1**

Job Ticket: 68059

**DST#: 1**

Test Start: 2022.02.20 @ 02:34:00

## GENERAL INFORMATION:

Formation: **LKC- K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:13:00

Time Test Ended: 10:46:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 78

**Interval: 4310.00 ft (KB) To 4356.00 ft (KB) (TVD)**

Reference Elevations: 3343.00 ft (KB)

Total Depth: 4356.00 ft (KB) (TVD)

3338.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8874 Outside**

Press@RunDepth: 1053.84 psig @ 4311.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.02.20 End Date: 2022.02.20

Last Calib.: 2022.02.20

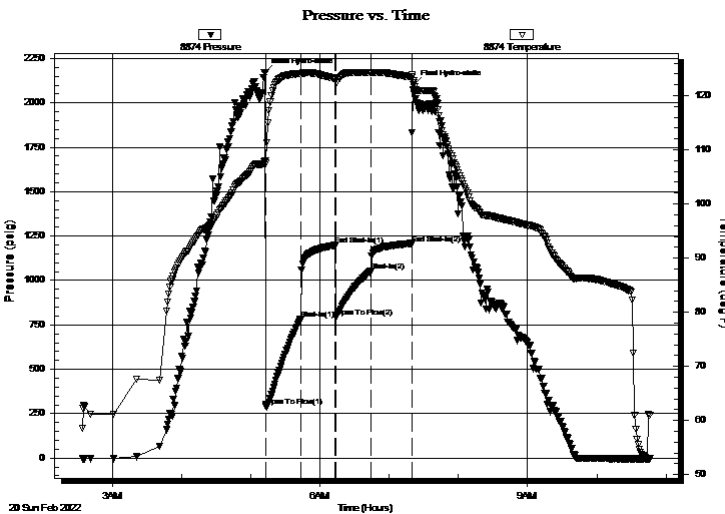
Start Time: 02:34:05 End Time: 10:46:29

Time On Btm: 2022.02.20 @ 05:12:15

Time Off Btm: 2022.02.20 @ 07:21:00

**TEST COMMENT:** 30- IF: BOB @ 1.5 min, built to 210"  
30- IS: No return.  
30- FF: BOB @ 1,5 min, built to 111"  
30- FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2169.53	107.89	Initial Hydro-static
1	292.18	107.98	Open To Flow (1)
31	780.44	124.05	Shut-In(1)
61	1198.44	123.13	End Shut-In(1)
62	797.15	122.94	Open To Flow (2)
92	1053.84	124.23	Shut-In(2)
127	1208.69	123.42	End Shut-In(2)
129	2101.42	122.41	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1950.00	mcw 2m 98w	26.26

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Ritchie Exploratipon  
PO Box 783188  
Wichita,  
ks 67278  
ATTN: Max Lovely

**35 16s 37w Wichita, Ks**  
**Whitham 35D #1**  
Job Ticket: 68059      **DST#: 1**  
Test Start: 2022.02.20 @ 02:34:00

## Mud and Cushion Information

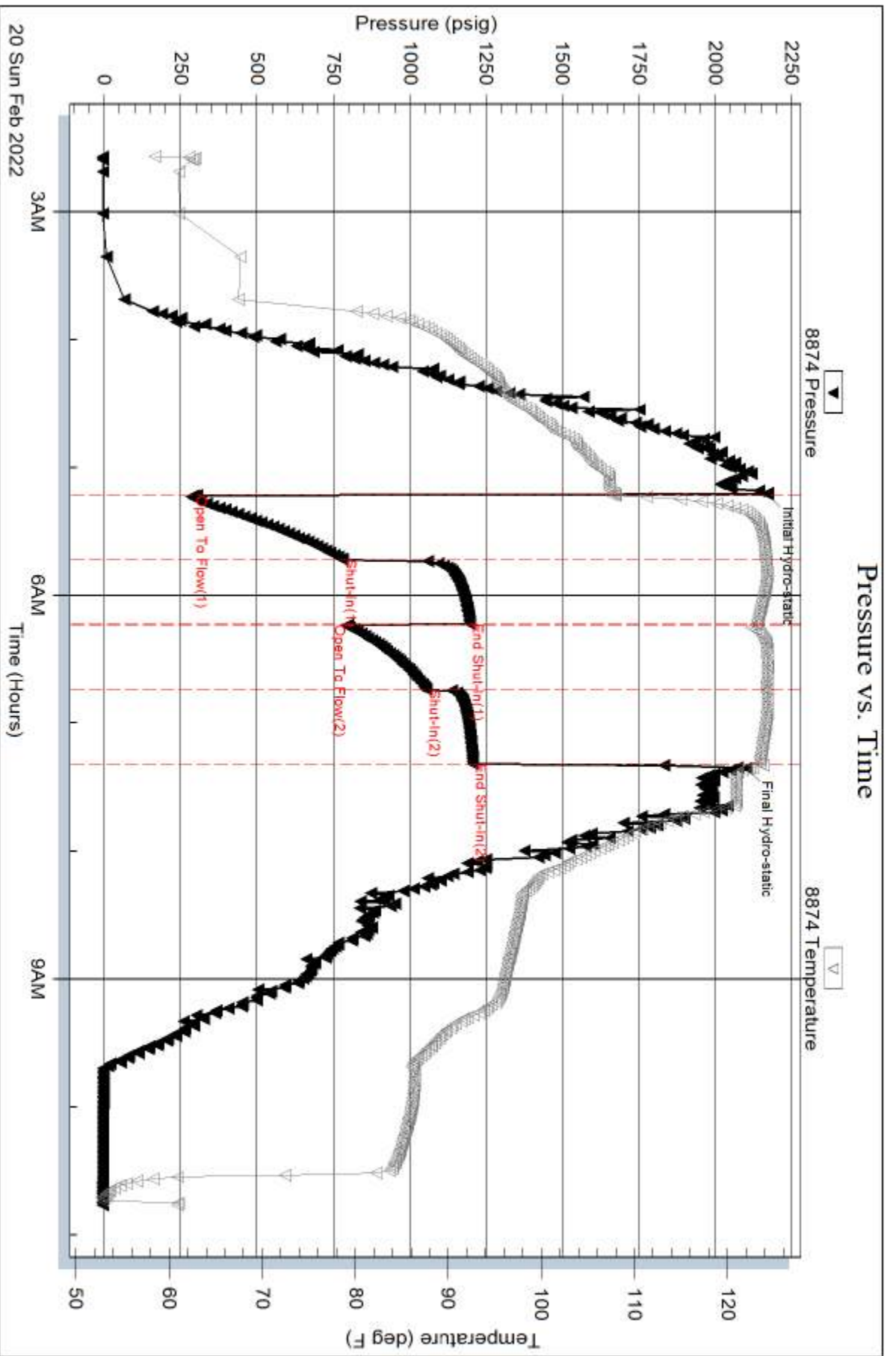
Mud Type: Gel Chem	Cushion Type:	Oil API: 0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 64000 ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.60 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 4000.00 ppm		
Filter Cake: 1.00 inches		

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1950.00	mcw 2m 98w	26.260

Total Length: 1950.00 ft      Total Volume: 26.260 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments: RW is .137 @ 59F = 64000ppm  
H2S present.



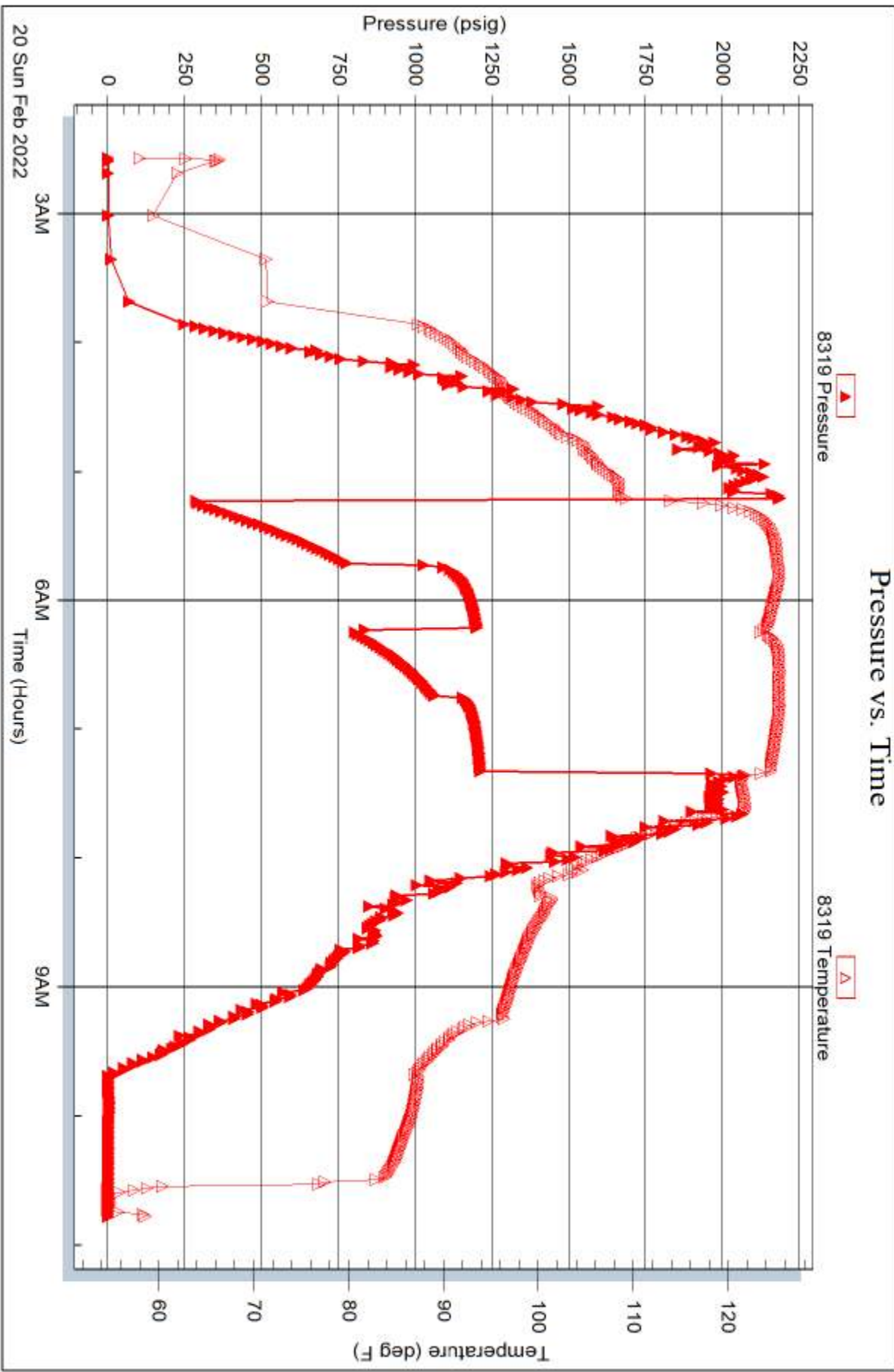
Serial #: 8319

Inside

Richie Exploration

Whitham 35D #1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 68059

Printed: 2022.02.20 @ 12:29:19





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Ritchie Explorativon  
 PO Box 783188  
 Wichita,  
 ks 67278  
 ATTN: Max Lovely

**35 16s 37w Wichita, Ks**

**Witham 35D #1**

Job Ticket: 68060

**DST#: 2**

Test Start: 2022.02.21 @ 03:25:00

## GENERAL INFORMATION:

Formation: **Altamont**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:00:00

Time Test Ended: 11:26:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

**Interval: 4454.00 ft (KB) To 4490.00 ft (KB) (TVD)**

Reference Elevations: 3343.00 ft (KB)

Total Depth: 4356.00 ft (KB) (TVD)

3338.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8874 Outside**

Press@RunDepth: 57.62 psig @ 4455.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.02.21

End Date:

2022.02.21

Last Calib.: 2022.02.21

Start Time: 03:25:05

End Time:

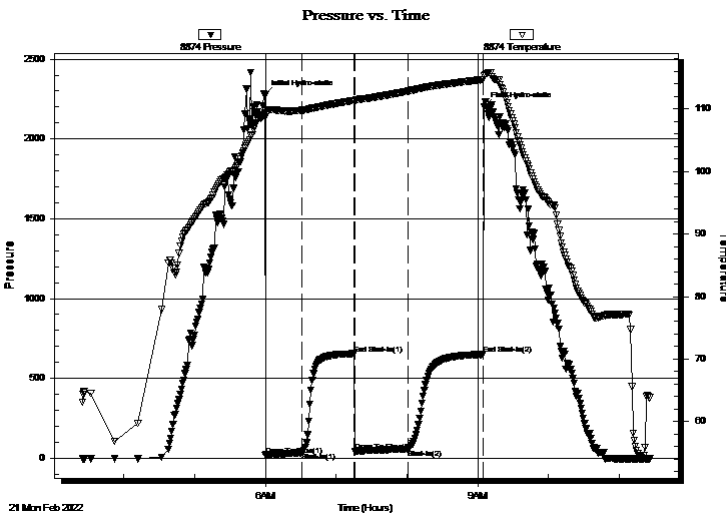
11:26:29

Time On Btm: 2022.02.21 @ 05:59:45

Time Off Btm: 2022.02.21 @ 09:05:45

TEST COMMENT: 30- IF: 1 1/2" blow .  
 45- IS: No return.  
 45- FF: 1/2" blow .  
 60- FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2275.36	109.45	Initial Hydro-static
1	19.22	108.75	Open To Flow (1)
31	35.36	109.79	Shut-In(1)
76	654.48	111.37	End Shut-In(1)
76	44.76	111.19	Open To Flow (2)
122	57.62	112.87	Shut-In(2)
185	649.65	114.71	End Shut-In(2)
186	2204.53	115.27	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
85.00	ocm 5o 95m	0.42
5.00	Oil 100o	0.02
0.00	30' GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Ritchie Exploratipon  
PO Box 783188  
Wichita,  
ks 67278  
ATTN: Max Lovely

**35 16s 37w Wichita, Ks**

**Witham 35D #1**

Job Ticket: 68060

**DST#: 2**

Test Start: 2022.02.21 @ 03:25:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 65.00 sec/qt  
Water Loss: 7.99 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 4000.00 ppm  
Filter Cake: 1.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: 21 deg API  
Water Salinity: 0 ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
85.00	ocm 5o 95m	0.418
5.00	Oil 100o	0.025
0.00	30' GIP	0.000

Total Length: 90.00 ft      Total Volume: 0.443 bbl

Num Fluid Samples: 0

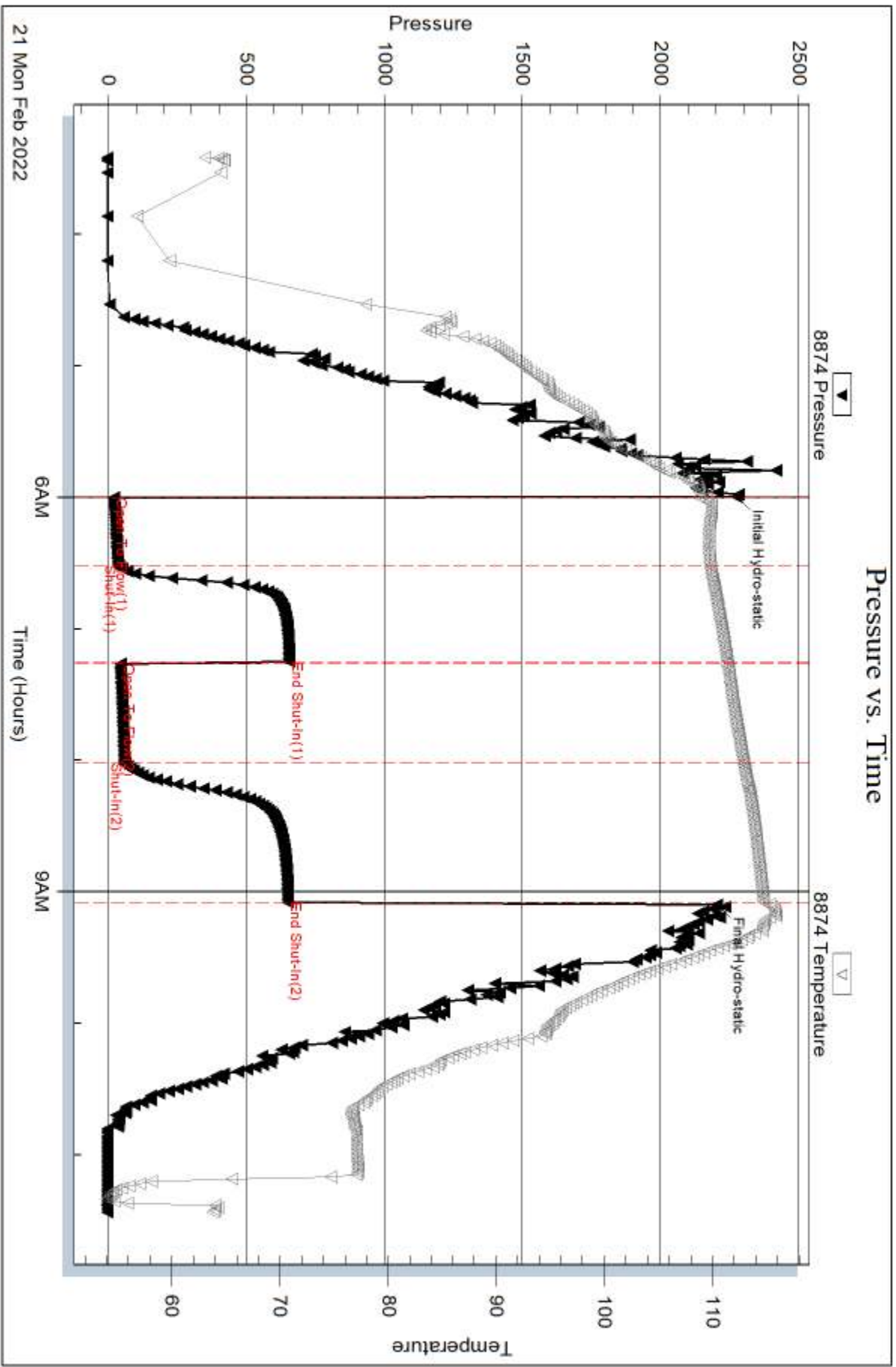
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



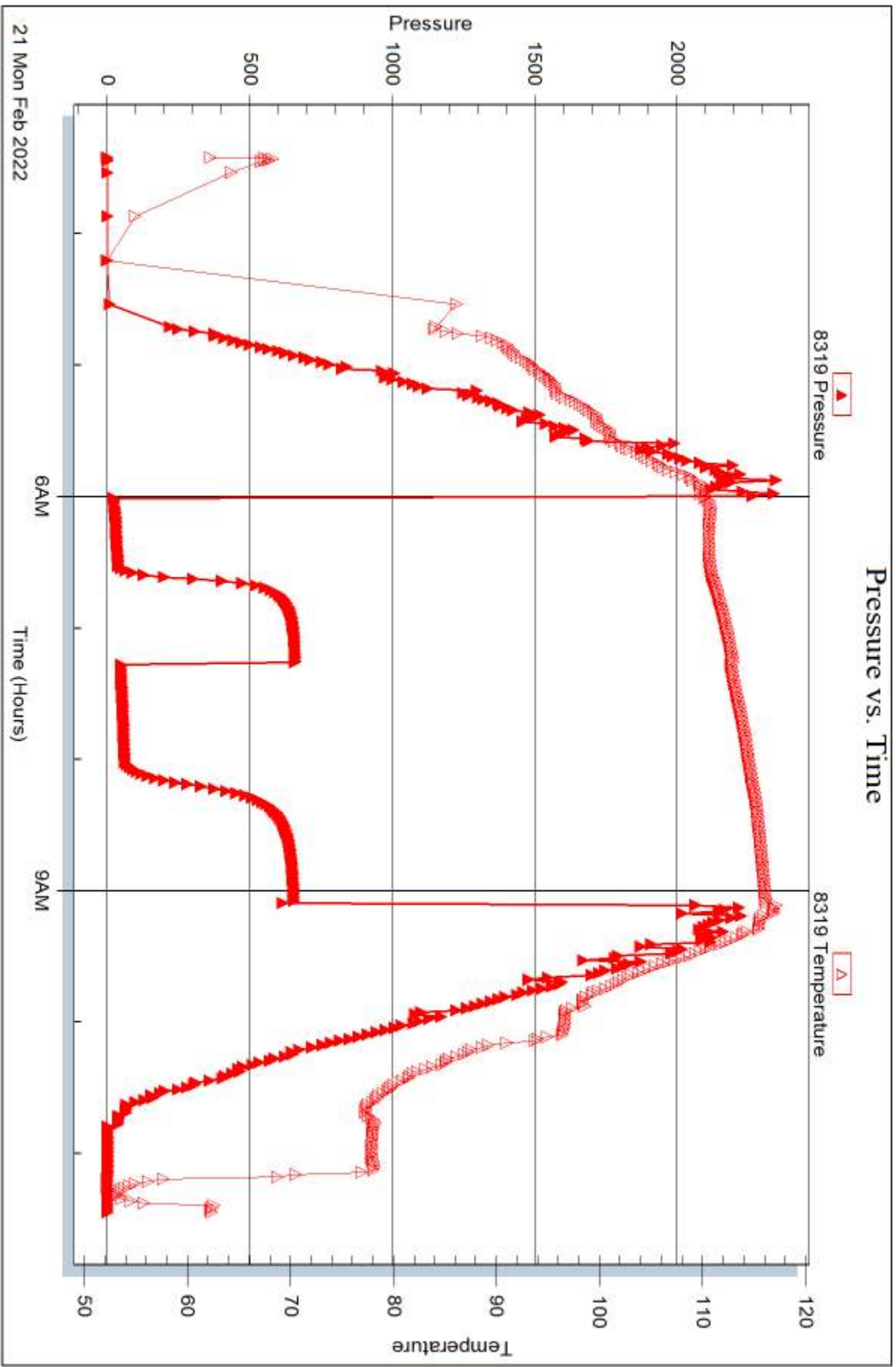
Serial #: 8319

Inside

Ritchie Exploration

Witham 35D #1

DST Test Number: 2





**#1 Whitham 35D**

1,110' FSL & 1,807' FEL

120' N & 157' W of NE SW SE Section 35-16S-37W

Wichita County, Kansas

API# 15-203-20372-0000

Elevation: GL: 3,338', KB: 3,343'

Sample Tops

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Anhydrite	2516	827
B/Anhydrite	2532	811
Stotler	3618	-275
Heebner	3983	-640
Toronto	4005	-662
Lansing	4037	-694
Muncie	4216	-873
Stark	4313	-970
Hushpuckney	4361	-1018
BKC	4408	-1065
Marmaton	4452	-1109
Altamont	4466	-1123
Pawnee	4534	-1191
Myrick	4575	-1232
Ft Scott	4588	-1245
Cherokee	4618	-1275
Johnson	4718	-1375
Morrow	4782	-1439
Mississippi	4889	-1546
RTD	4972	-1629











**CEMENT TREATMENT REPORT**

Customer: Ritchie Exploration	Well: Whitham 35D #1	Ticket: WP 2451
City, State: Oakley KS	County: Wichita KS	Date: 2/24/2022
Field Rep: Justin	S-T-R: 35-16S-37W	Service: PTA

Downhole Information	
Hole Size:	7 7/8 In
Hole Depth:	ft
Casing Size:	In
Casing Depth:	ft
Tubing / Liner:	4 1/2 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:	1.42 ft <sup>3</sup> / sx
Annular Bbls / Ft.:	0.0406 bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	68.2 bbls
Total Sacks:	270 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	STAGE BBLs	TOTAL BBLs	REMARKS
440a			-	-	Arrived on location
460a				-	Safely meeting
500a				-	Rlg up
909a	3.0	260.0	6.0	6.0	Water ahead
913a	3.5	325.0	12.6	17.6	Mixed 50 SX cement 13.8 ppg @ 2600'
920a	3.0	260.0	6.0	22.6	Displacement
927a			28.6	51.1	Displaced mud with mud pump
				51.1	
1017a	3.0	250.0	5.0	56.1	Water ahead
1019a	4.0	400.0	20.2	76.3	Mixed 80 SX cement 13.8 ppg @ 1610'
1026a	4.5	200.0	14.5	90.8	Displacement
1109a	3.0	200.0	5.0		Water ahead
1111a	4.5	400.0	10.0		Mixed 40 SX cement 13.8 ppg @ 810'
1115a	2.0	100.0	7.0		Displacement
1155a	3.5	250.0	5.0		Water ahead
1158a	3.5	300.0	12.6		Mixed 50 SX cement 13.8 ppg @ 270'
1203p	2.0	100.0	0.5		Displacement
110p	2.0	100.0	5.0		Mixed 20 SX cement 13.8 ppg with wooden plug @ 60'
116p	2.0	100.0	7.5		Mixed 30 SX cement 13.8 ppg in rathole
127p					Wash up and rlg down
205p					Left location

CREW		UNIT	SUMMARY		
Cementer:	John	914	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Christan	208	3.1 bpm	230 psi	143 bbls
Bulk #1:	Kale	165-235			
Bulk #2:					

# **Ladder Creek Prospect**

**2013 Drilling Program**

## **#1 Whitham 35D**

**Approximately 1,110' FSL and 1,807' FEL**

**Section 35-16S-37W**

**Wichita County, Kansas**

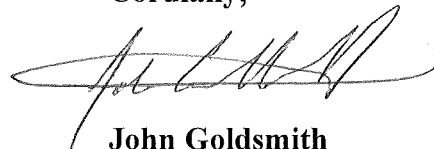
The Ladder Creek Prospect is located in central Wichita County, approximately eight miles northwest of the town of Leoti, Kansas. Potential zones of production include the multiple Lansing Kansas City Limestones, Altamont, Pawnee, Fort Scott, Myrick Station, Morrow Sandstone, and the Mississippian formation. Average total well depth is 5,100' in the Mississippian Limestone.

In early 2014, Ritchie Exploration, Inc. conducted a 3D seismic survey over a large acreage play covering over twenty-one square miles in 16S-37W and 17S-37W. The acquired leasehold lies in close proximity to several multiple-zone show holes and multiple producing wells. This large acreage block has been broken into three separate prospects based upon both regional subsurface indicators and various seismic anomalies. The Ladder Creek division includes over eight square miles in the northern portion of the survey.

The interpreted 3D seismic data shows well defined structure congruent with a currently producing structure in the east half of Section 35. The seismic anomaly looks to be a possible continuation of the structure the #2 Whitham 35AB is positioned on. The #2 Whitham 35AB was successful in completion in the Altamont formation and has produced over 7,700 barrels of oil in less than two years. Ritchie also drilled the #1 Whitham-Smith Trust in August of 2018 in the west half of section 35. It was completed in the Altamont formation as well, and has produced over 9,500 BO. Seismic mapping and subsurface contouring suggest that the two producing features in Section 35 possess the same desirable characteristics as the proposed location. The feature has well defined closure and Ritchie believes it is isolated from currently producing wells. The location will provide an opportunity to further exploit additional oil reserves in the prospect and further develop the area. Preparations are being made to test this feature by drilling in the Southeast of Section 35-16S-37W.

Due to the presence of a strong 3D seismic feature, supportive subsurface mapping, and being located in close proximity to proven producing wells, it is recommended to drill the #1 Whitham 35D location as referenced above.

Cordially,



**John Goldsmith  
Geologist**