

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

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

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

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

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

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

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: \_\_\_\_\_

Confidential Release Date: \_\_\_\_\_

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

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

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

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

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

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (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	Rockhound Petroleum, LLC
Well Name	DUNN 1
Doc ID	1586542

All Electric Logs Run

DIL
ML
SON
CDL/CNL

Form	ACO1 - Well Completion
Operator	Rockhound Petroleum, LLC
Well Name	DUNN 1
Doc ID	1586542

Tops

Name	Top	Datum
Base Heebner	3332	-1426
Toronto	3348	-1442
Douglas	3362	-1456
BL	3463	-1557
Lansing	3482	-1576
BKC	3722	-1816
Viola	3816	-1910
Simpson SH	3851	-1945
ARB	3910	-2004





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Rockhound Petroleum, LLC

**8-23s-13w Stafford Co. Ks.**

255 NE 30th  
St. John, Ks. 67576

**Dunn #1**

Job Ticket: 67162

**DST#: 1**

ATTN: Keaton Jones.

Test Start: 2021.08.06 @ 08:11:31

## GENERAL INFORMATION:

Formation: **Lansing B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:20:16

Time Test Ended: 14:15:16

Test Type: Conventional Bottom Hole (Initial)

Tester: Matt Smith

Unit No: 68

**Interval: 3498.00 ft (KB) To 3514.00 ft (KB) (TVD)**

Reference Elevations: 1906.00 ft (KB)

Total Depth: 3514.00 ft (KB) (TVD)

1898.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8788**

**Inside**

Press@RunDepth: 30.72 psig @ 3499.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.08.06

End Date:

2021.08.06

Last Calib.:

2021.08.06

Start Time:

08:11:36

End Time:

14:15:15

Time On Btm:

2021.08.06 @ 10:18:16

Time Off Btm:

2021.08.06 @ 12:28:16

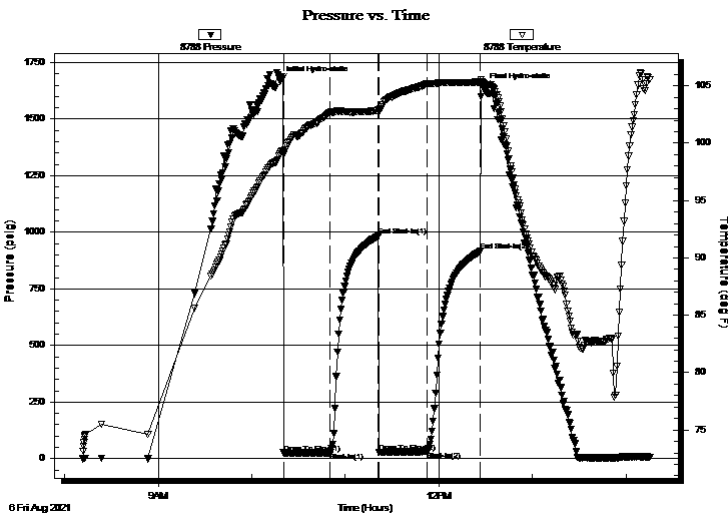
TEST COMMENT: IF: Weak Blow . Built to 1.49". (30)

IS: No Blow . (30)

FF: Weak Blow . Built to .57". (30)

FS: No Blow . (30)

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1668.30	99.05	Initial Hydro-static
2	24.83	98.96	Open To Flow (1)
33	26.10	102.68	Shut-In(1)
63	982.88	102.86	End Shut-In(1)
64	28.15	102.72	Open To Flow (2)
94	30.72	105.19	Shut-In(2)
129	916.07	105.33	End Shut-In(2)
130	1640.32	105.27	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
25.00	GV/SOWCM 1%g 5%o 19%w 75%m	0.35
0.00	37' GIP 100%g	0.00

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Rockhound Petroleum, LLC

**8-23s-13w Stafford Co. Ks.**

255 NE 30th  
St. John, Ks. 67576

**Dunn #1**

Job Ticket: 67162

**DST#: 1**

ATTN: Keaton Jones.

Test Start: 2021.08.06 @ 08:11:31

### 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:

4000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.38 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 4000.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: 0.20 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	GVSOWCM 1%g 5%o 19%w 75%m	0.351
0.00	37' GIP 100%g	0.000

Total Length: 25.00 ft      Total Volume: 0.351 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: None

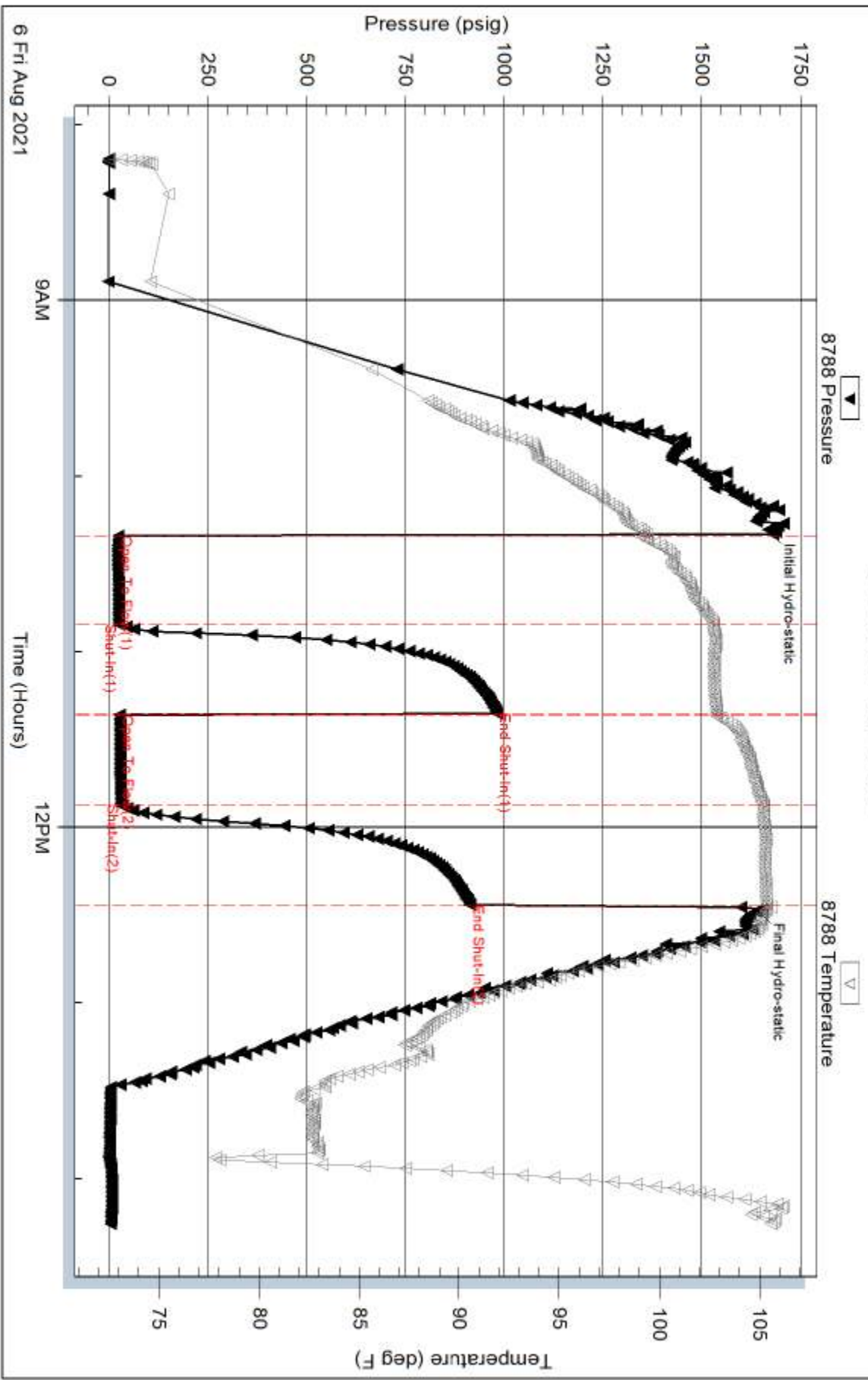
Laboratory Name:

Laboratory Location:

Recovery Comments: 37 Feet of GAS in Pipe



### Pressure vs. Time

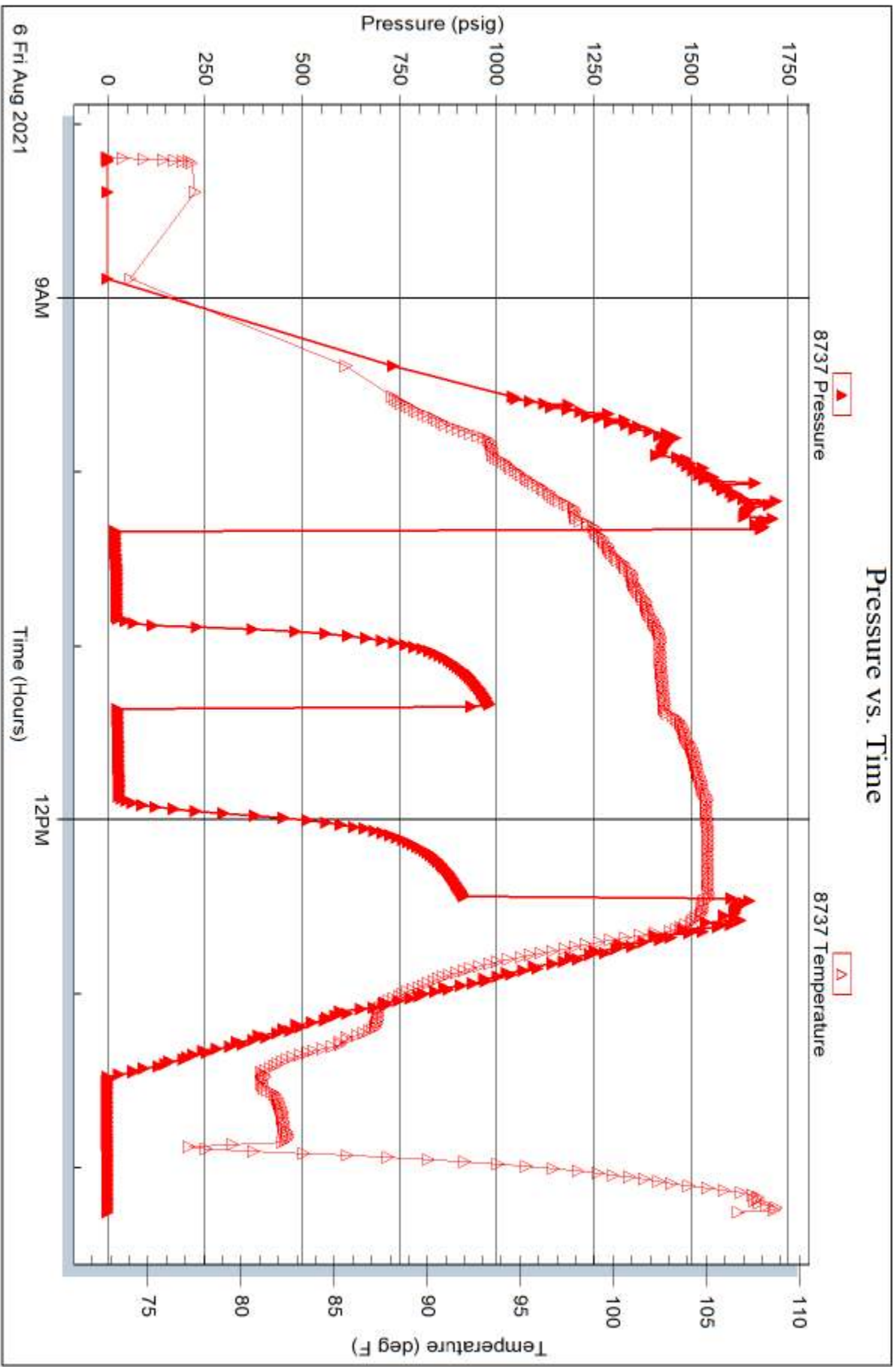


Serial #: 8737

Outside Rockbound Petroleum, LLC

Dunn #1

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 67162

Printed: 2021.08.06 @ 15:58:30



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Rockhound Petroleum, LLC

**8-23s-13w Stafford Co. Ks.**

255 NE 30th  
St. John, Ks. 67576

**Dunn #1**

Job Ticket: 67163

**DST#: 2**

ATTN: Keaton Jones.

Test Start: 2021.08.07 @ 03:12:34

## GENERAL INFORMATION:

Formation: **Lansing KC "I&J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:45:04

Time Test Ended: 09:50:19

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

**Interval: 3620.00 ft (KB) To 3660.00 ft (KB) (TVD)**

Reference Elevations: 1906.00 ft (KB)

Total Depth: 3660.00 ft (KB) (TVD)

1898.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8788**

**Inside**

Press@RunDepth: 22.81 psig @ 3621.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.08.07 End Date: 2021.08.07

Last Calib.: 2021.08.07

Start Time: 03:12:39 End Time: 09:50:18

Time On Btm: 2021.08.07 @ 05:44:04

Time Off Btm: 2021.08.07 @ 07:54:34

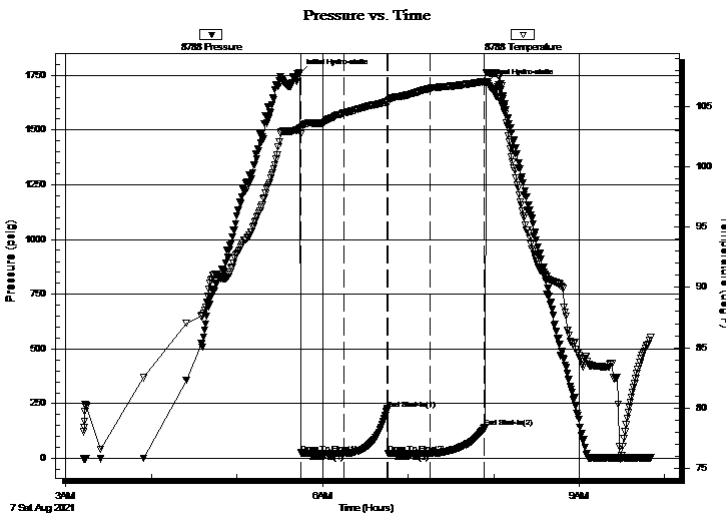
TEST COMMENT: IF: Weak Blow . Built to .39". (30)

IS: No Blow . (30)

FF: Surface Blow . Died (30)

FS: No Blow . (30)

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1759.45	103.21	Initial Hydro-static
1	25.41	103.05	Open To Flow (1)
32	22.70	104.47	Shut-In(1)
62	226.69	105.37	End Shut-In(1)
62	23.43	105.27	Open To Flow (2)
91	22.81	106.46	Shut-In(2)
130	141.09	107.06	End Shut-In(2)
131	1713.67	107.78	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
7.00	OSM 100% m	0.10

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Rockhound Petroleum, LLC

**8-23s-13w Stafford Co. Ks.**

255 NE 30th  
St. John, Ks. 67576

**Dunn #1**

Job Ticket: 67163

**DST#: 2**

ATTN: Keaton Jones.

Test Start: 2021.08.07 @ 03:12:34

## GENERAL INFORMATION:

Formation: **Lansing KC "I&J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:45:04

Time Test Ended: 09:50:19

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

**Interval: 3620.00 ft (KB) To 3660.00 ft (KB) (TVD)**

Reference Elevations: 1906.00 ft (KB)

Total Depth: 3660.00 ft (KB) (TVD)

1898.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8737 Outside**

Press@RunDepth: psig @ 3621.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.08.07 End Date: 2021.08.07

Last Calib.: 2021.08.07

Start Time: 03:12:55 End Time: 09:50:34

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Weak Blow . Built to .39". (30)

IS: No Blow . (30)

FF: Surface Blow . Died (30)

FS: No Blow . (30)

## PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
7.00	OSM 100%m	0.10

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Rockhound Petroleum, LLC

**8-23s-13w Stafford Co. Ks.**

255 NE 30th  
St. John, Ks. 67576

**Dunn #1**

Job Ticket: 67163

**DST#: 2**

ATTN: Keaton Jones.

Test Start: 2021.08.07 @ 03:12:34

### 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:

4000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.37 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 4000.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: 0.20 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
7.00	OSM 100%m	0.098

Total Length: 7.00 ft      Total Volume: 0.098 bbl

Num Fluid Samples: 0

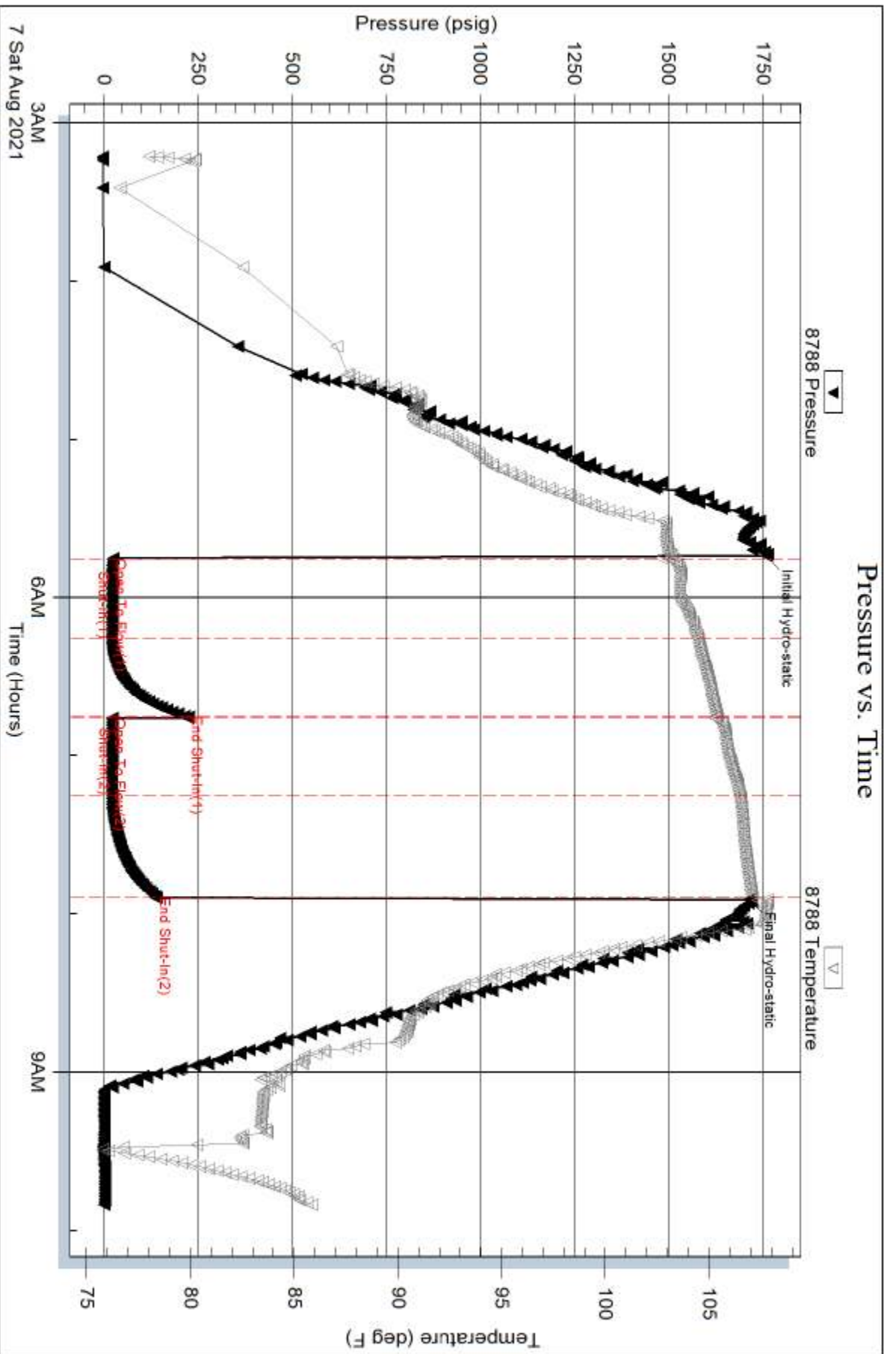
Num Gas Bombs: 0

Serial #: None

Laboratory Name:

Laboratory Location:

Recovery Comments:

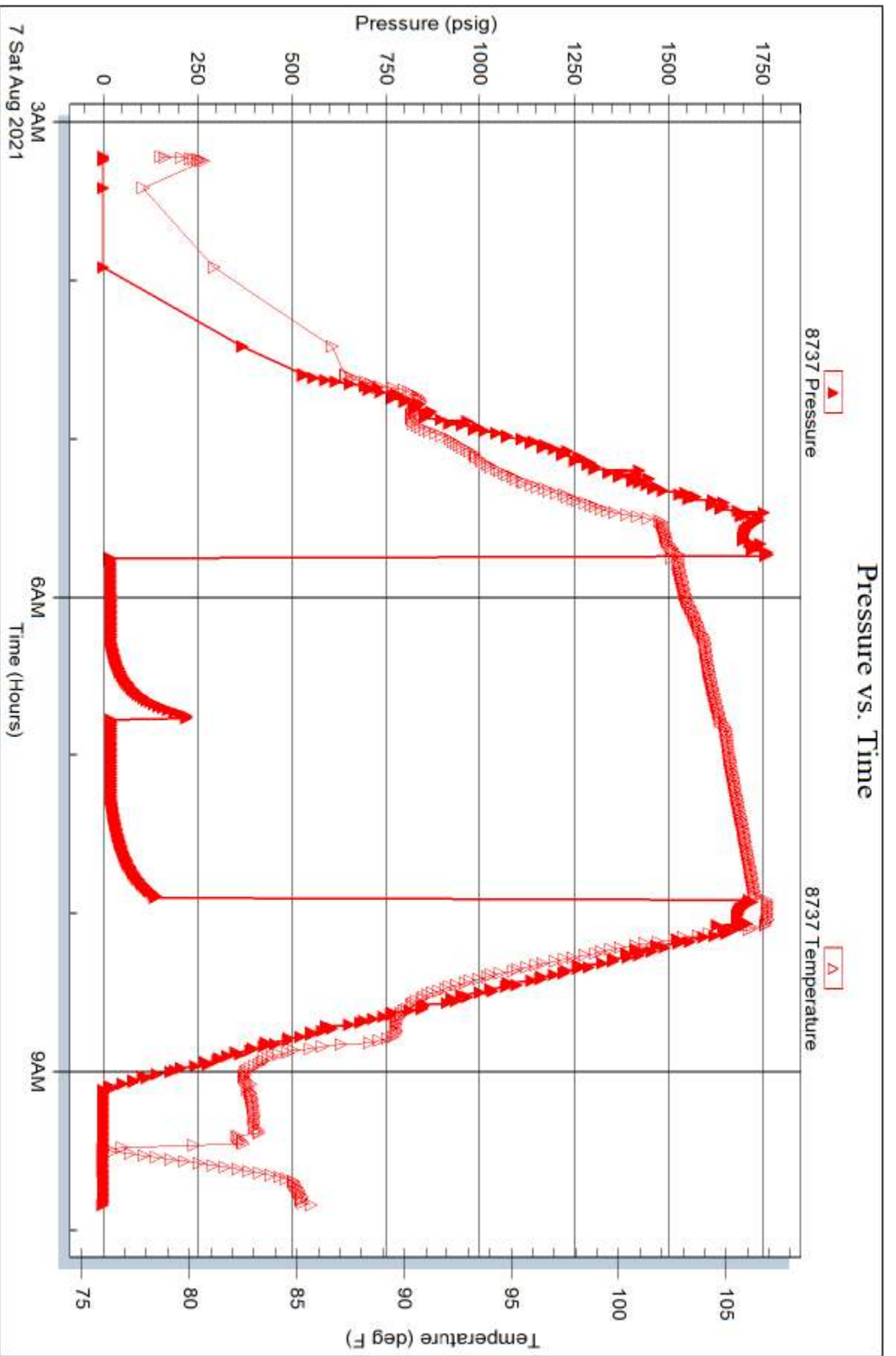


Serial #: 8737

Outside Rockbound Petroleum, LLC

Dunn #1

DST Test Number: 2





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Rockhound Petroleum, LLC

**8-23s-13w Stafford Co. Ks.**

255 NE 30th  
St. John, Ks. 67576

**Dunn #1**

Job Ticket: 67164

**DST#: 3**

ATTN: Keaton Jones.

Test Start: 2021.08.07 @ 19:09:04

## GENERAL INFORMATION:

Formation: **Lansing KC K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:57:34

Time Test Ended: 02:20:19

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

**Interval: 3660.00 ft (KB) To 3700.00 ft (KB) (TVD)**

Reference Elevations: 1906.00 ft (KB)

Total Depth: 3700.00 ft (KB) (TVD)

1898.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8788**

**Inside**

Press@RunDepth: 25.06 psig @ 3661.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.08.07

End Date:

2021.08.08

Last Calib.:

2021.08.08

Start Time: 19:09:09

End Time:

02:20:18

Time On Btm:

2021.08.07 @ 20:56:19

Time Off Btm:

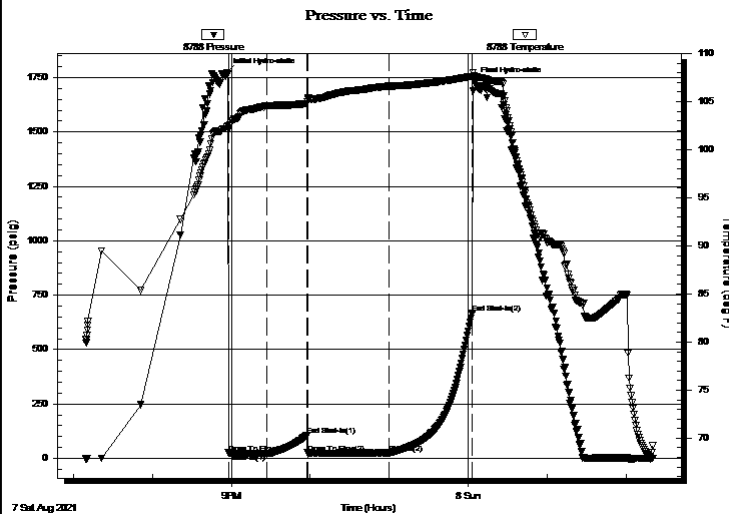
2021.08.08 @ 00:04:34

TEST COMMENT: IF: Weak Blow . Built to 3". (30)

IS: No Blow . (30)

FF: Fair Blow . Built to 7 1/4". (60)

FS: Weak Blow . built to .70". (60)



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1773.32	102.41	Initial Hydro-static
2	24.46	102.14	Open To Flow (1)
31	21.66	104.55	Shut-In(1)
61	104.91	104.80	End Shut-In(1)
62	20.68	105.28	Open To Flow (2)
124	25.06	106.61	Shut-In(2)
187	668.92	107.64	End Shut-In(2)
189	1729.11	107.71	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
28.00	GHOCM 5%g 20%o 75%m	0.39
0.00	160' GIP 100%g	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

Rockhound Petroleum, LLC

**8-23s-13w Stafford Co. Ks.**

255 NE 30th  
St. John, Ks. 67576

**Dunn #1**

Job Ticket: 67164

**DST#: 3**

ATTN: Keaton Jones.

Test Start: 2021.08.07 @ 19:09:04

### 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: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 7500.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: 0.20 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
28.00	GHOCM 5%g 20%o 75%m	0.393
0.00	160' GIP 100%g	0.000

Total Length: 28.00 ft      Total Volume: 0.393 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: None

Laboratory Name:

Laboratory Location:

Recovery Comments: 160 Feet of GAS in Pipe.

Serial #: 8788

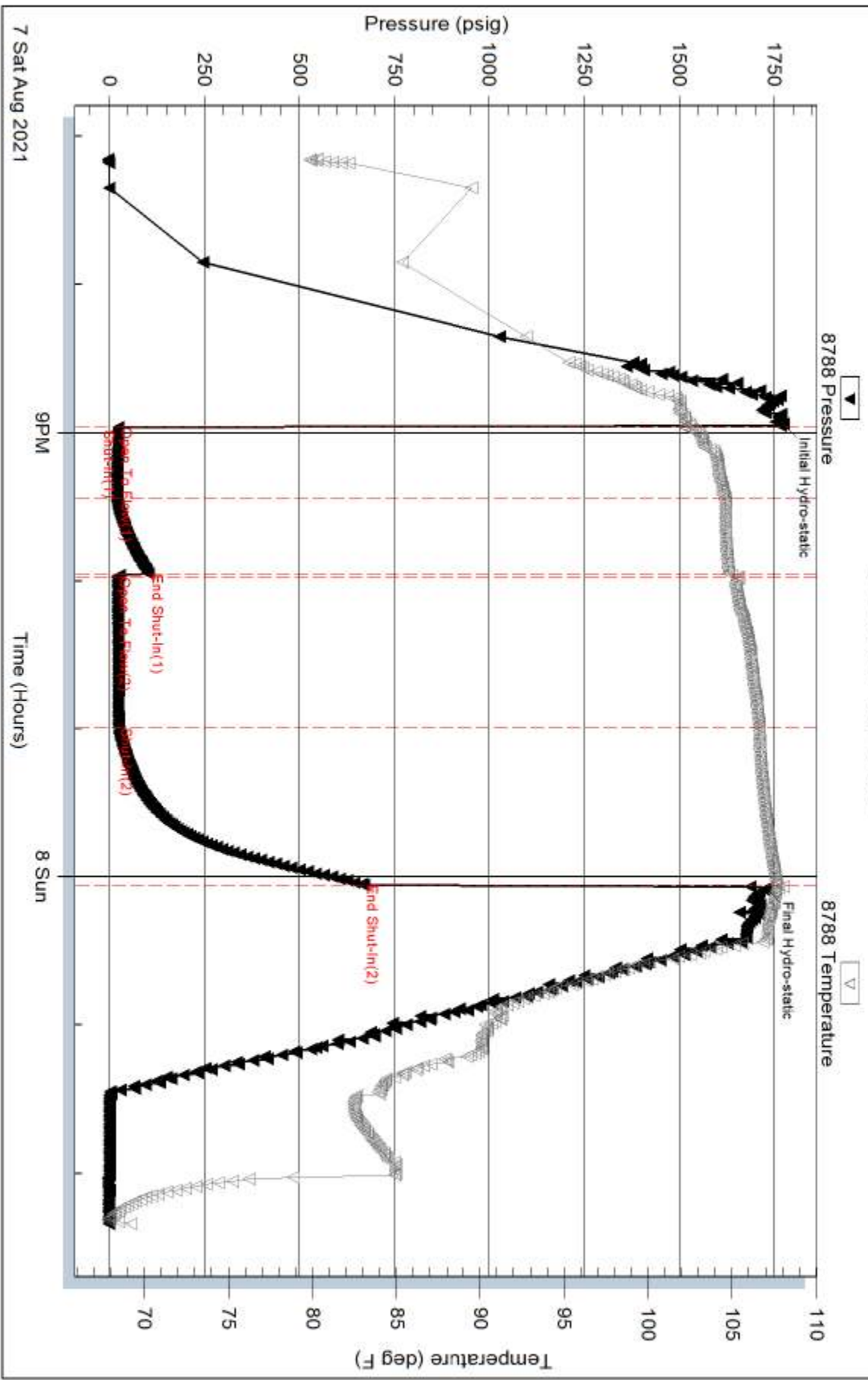
Inside

Rockhound Petroleum, LLC

Dunn #1

DST Test Number: 3

### Pressure vs. Time

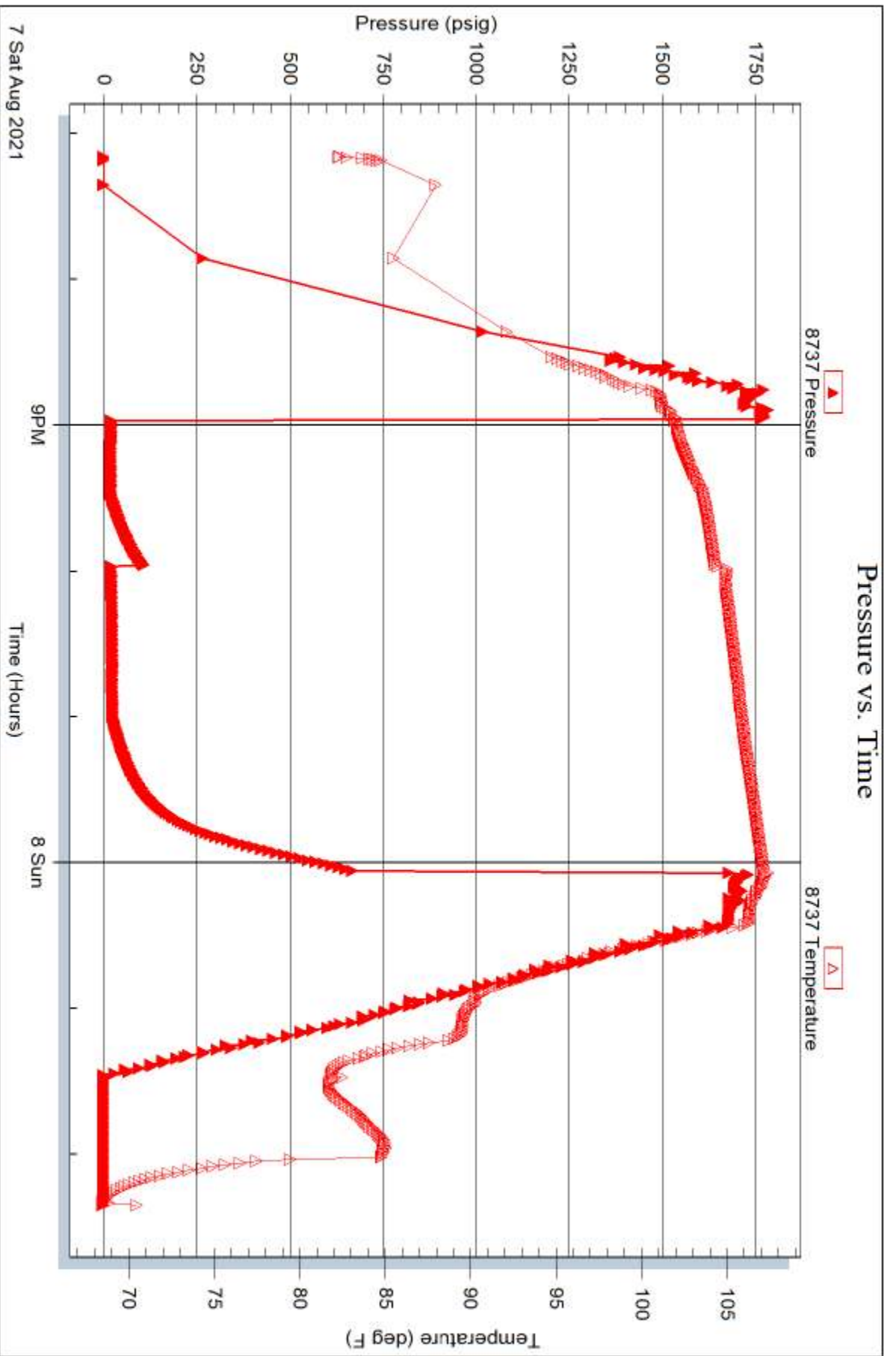


Serial #: 8737

Outside Rockbound Petroleum, LLC

Dunn #1

DST Test Number: 3





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Rockhound Petroleum, LLC

**8-23s-13w Stafford Co. Ks.**

255 NE 30th  
St. John, Ks. 67576

**Dunn #1**

Job Ticket: 67165

**DST#: 4**

ATTN: Keaton Jones.

Test Start: 2021.08.09 @ 04:23:38

## GENERAL INFORMATION:

Formation: **Viola**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:02:53

Time Test Ended: 11:22:38

Test Type: Conventional Straddle (Reset)

Tester: Matt Smith

Unit No: 68

**Interval: 3791.00 ft (KB) To 3850.00 ft (KB) (TVD)**

Reference Elevations: 1906.00 ft (KB)

Total Depth: 3968.00 ft (KB) (TVD)

1898.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

**Serial #: 8788**

**Inside**

Press@RunDepth: 25.11 psig @ 3796.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.08.09

End Date:

2021.08.09

Last Calib.:

2021.08.09

Start Time:

04:23:43

End Time:

11:22:37

Time On Btm:

2021.08.09 @ 07:01:53

Time Off Btm:

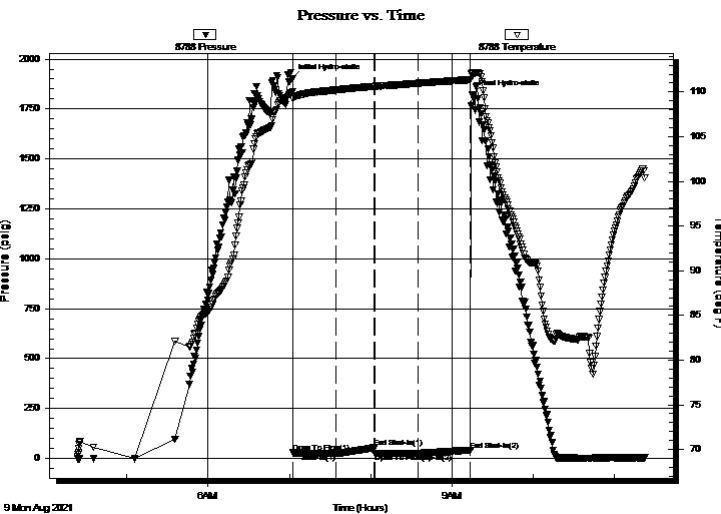
2021.08.09 @ 09:14:38

TEST COMMENT: IF: Weak Blow . Built to .55". (30)

IS: No Blow . (30)

FF: Surface Blow . Built to .33". (30)

FS: No Blow . (30)



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1901.84	109.93	Initial Hydro-static
1	28.14	109.29	Open To Flow (1)
33	24.17	110.22	Shut-In(1)
61	53.58	110.62	End Shut-In(1)
61	24.85	110.61	Open To Flow (2)
93	25.11	110.97	Shut-In(2)
132	41.79	111.37	End Shut-In(2)
133	1822.51	112.00	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	VSOHCM 2%o 98%m	0.07

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Rockhound Petroleum, LLC

**8-23s-13w Stafford Co. Ks.**

255 NE 30th  
St. John, Ks. 67576

**Dunn #1**

Job Ticket: 67165

**DST#: 4**

ATTN: Keaton Jones.

Test Start: 2021.08.09 @ 04:23:38

### 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:

17000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbf

Water Loss: 11.49 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 17000.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: 0.20 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbf
5.00	VSOHCM 2%o 98%m	0.070

Total Length: 5.00 ft      Total Volume: 0.070 bbf

Num Fluid Samples: 0

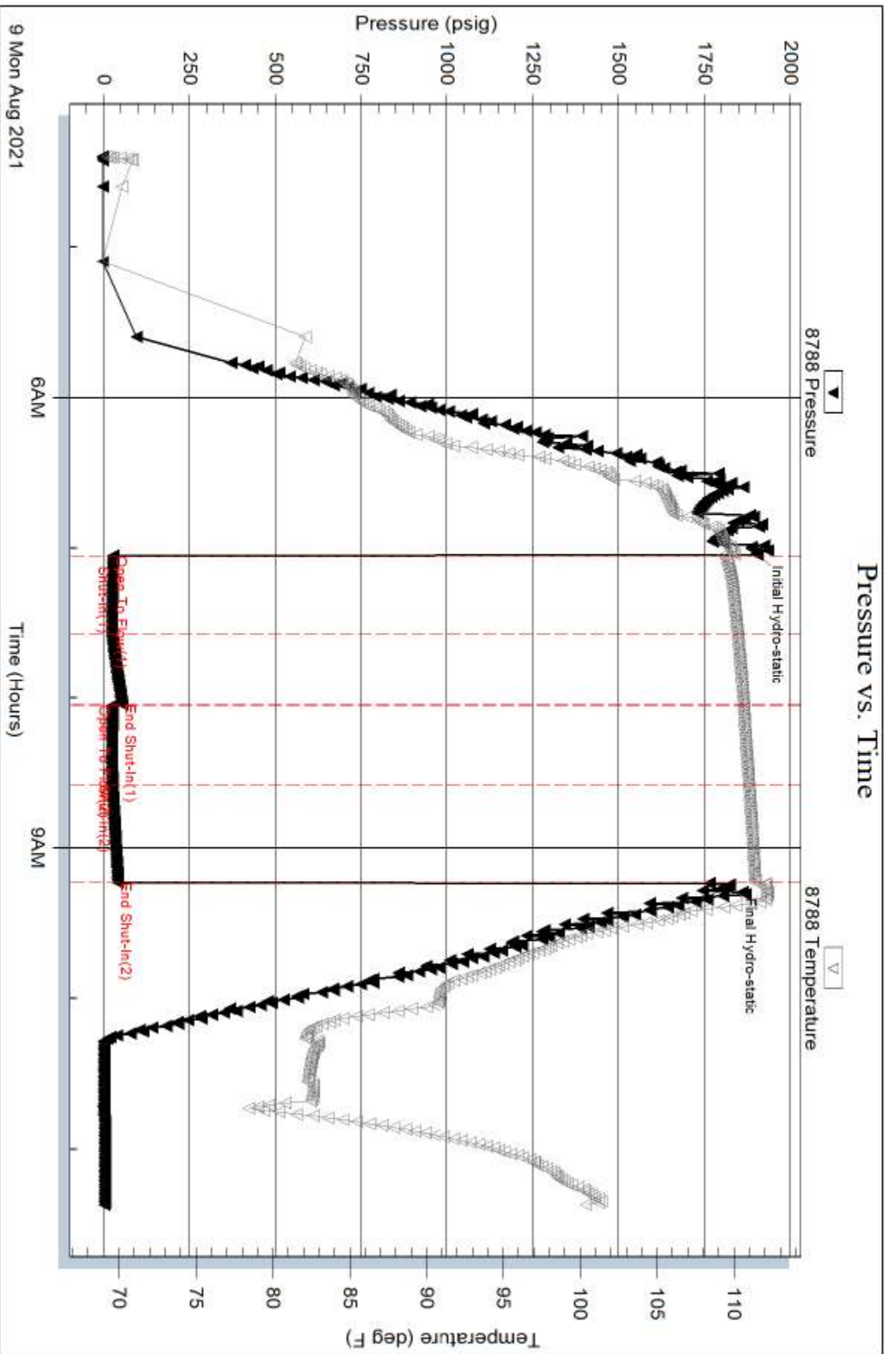
Num Gas Bombs: 0

Serial #: None

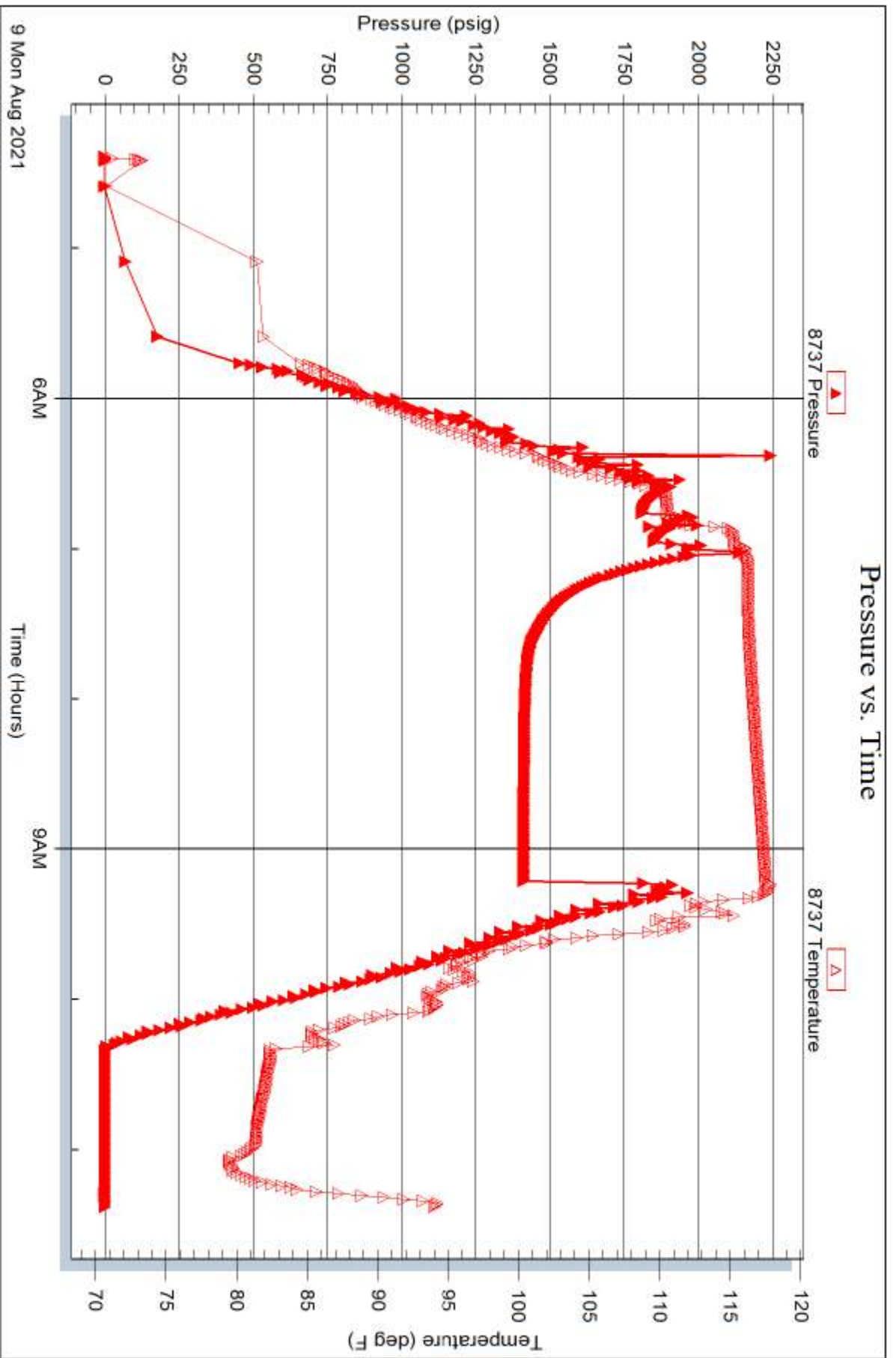
Laboratory Name:

Laboratory Location:

Recovery Comments:















**MUD LOG**  
**WellSight Systems**  
 Scale 1:240 (5"=100') Imperial  
 Measured Depth Log

Well Name: **Dunn #1**  
 API: **15-185-24085**  
 Location: **1070 FNL - 1415 FWL - Sec. 8 - Twp. 23S - 13W**  
 License Number: **35657** Region: **Kansas**  
 Spud Date: **08/02/2021** Drilling Completed: **08/10/21**  
 Surface Coordinates:

Bottom Hole  
 Coordinates:  
 Ground Elevation (ft): **1898** K.B. Elevation (ft): **1906**  
 Logged Interval (ft): **3000** To: **T.D** Total Depth (ft): **3970**  
 Formation: **Arbuckle Dolomite @ Total Depth**  
 Type of Drilling Fluid: **Chemical Drispac (Andys)**

Printed by MudLog from WellSight Systems 1-800-447-1534 www.WellSight.com




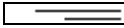

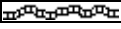


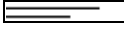
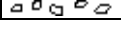

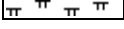




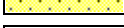
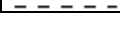

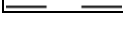
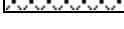
**OPERATOR**

Company: **Rockhound Petroleum, LLC**  
 Address: **255 NE 30th**  
**St. John KS 67576**

**GEOLOGIST**

Name: **Keaton Jones**  
 Company: **Rockhound Petroleum, LLC**  
 Address: **255 NE 30th**  
**St. John KS 67576**  
**(620)-546-4010**

**ROCK TYPES**

 <b>Anhy</b>	 <b>Coal</b>	 <b>Lmst</b>	 <b>Shcol</b>	 <b>Cfs</b>
 <b>Bent</b>	 <b>Congl</b>	 <b>Meta</b>	 <b>Shgy</b>	
 <b>Brec</b>	 <b>Dol</b>	 <b>Mrlst</b>	 <b>Sitst</b>	
 <b>Cht</b>	 <b>Gyp</b>	 <b>Salt</b>	 <b>Ss</b>	
 <b>Clyst</b>	 <b>Igne</b>	 <b>Shale</b>	 <b>Till</b>	



Straight hole  
Survey @ 1921 =  
0.75

Mud Displaced  
@3,000'

Conn @ 3108

Conn @ 3141

Conn @ 3172

Conn @ 3204

Conn @ 3236

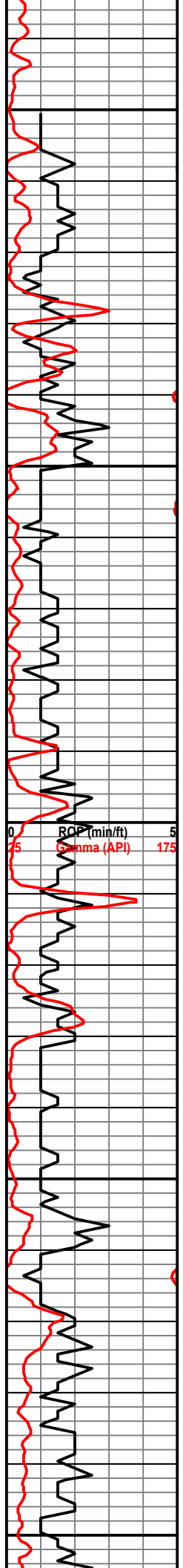
Conn @ 3267

Clean Pump  
Screen, Replace  
Valve, Pump  
Pre-Mix

- Mud Check -  
3275  
Vis- 5.1  
WT- 8.8  
Hulls - 2LCM

Conn @ 3298

3100  
3150  
3200  
3250  
3300



Ls - Cream - FXln, foss in sme chalky: no shows no odr

Ls br, F/MedXln, foss chalky in sme, mineral staining, no shows, no odr

Ls - tan, MedXln, dse, foss, reXln, no shows no odr

Ls - grey, MedXln, foss, Mineral staining, No Shows No Odor

Ls -Grey, MedXln, Vuggy - highly weathered and foss No shows no odor

Ls - grey to white - MedXln highly weathered - vry chalky in sme - shaly - sme mineral staining - no shows no odr

LS - Br, Tan - MedXln, Highly weathered oolic/ooli foss - no shows no odr

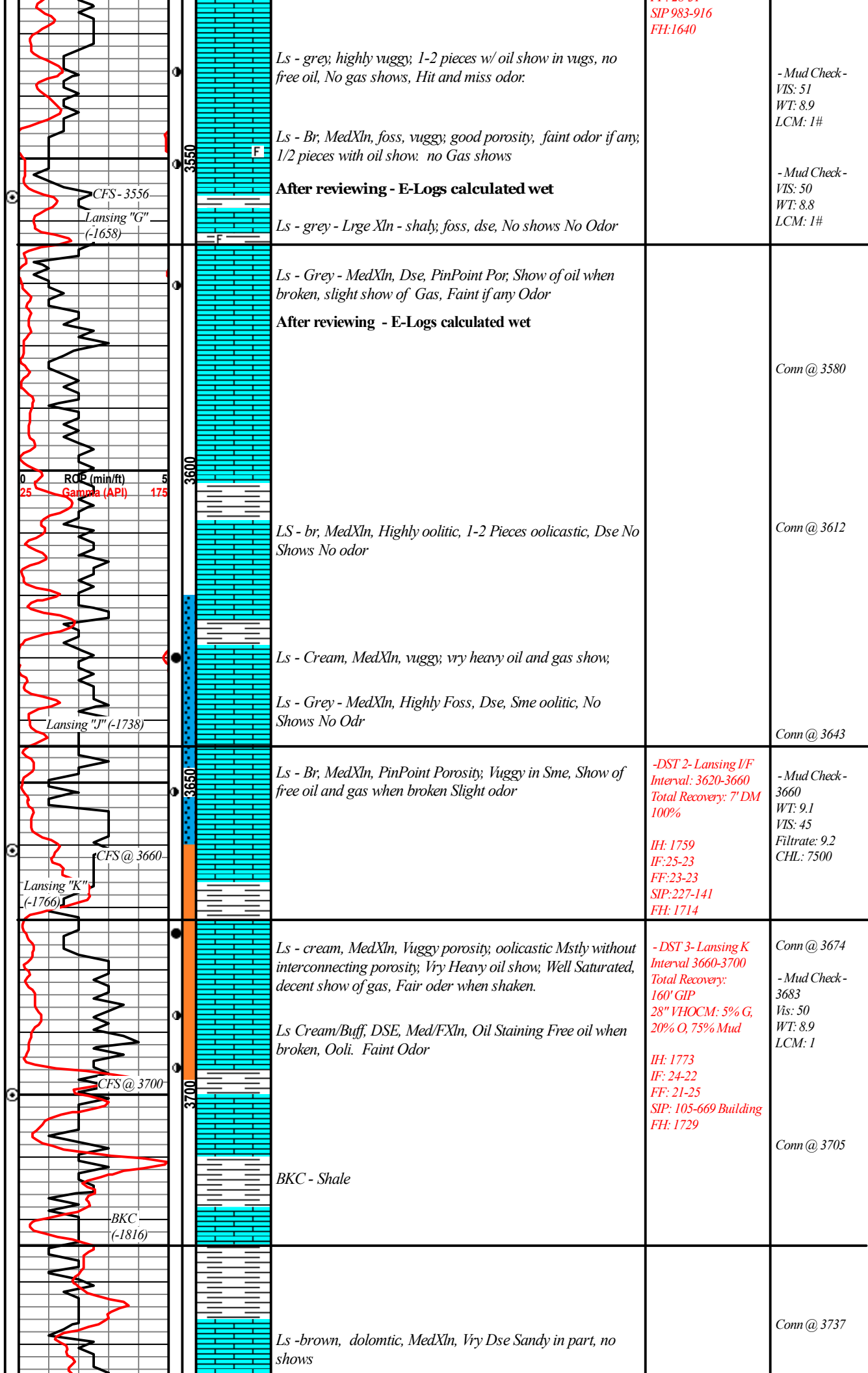
Ls - Br to Gold - MedXln - Highly weathered, More dse than above, foss, ooli in mst, staining in sme - no shows no odr

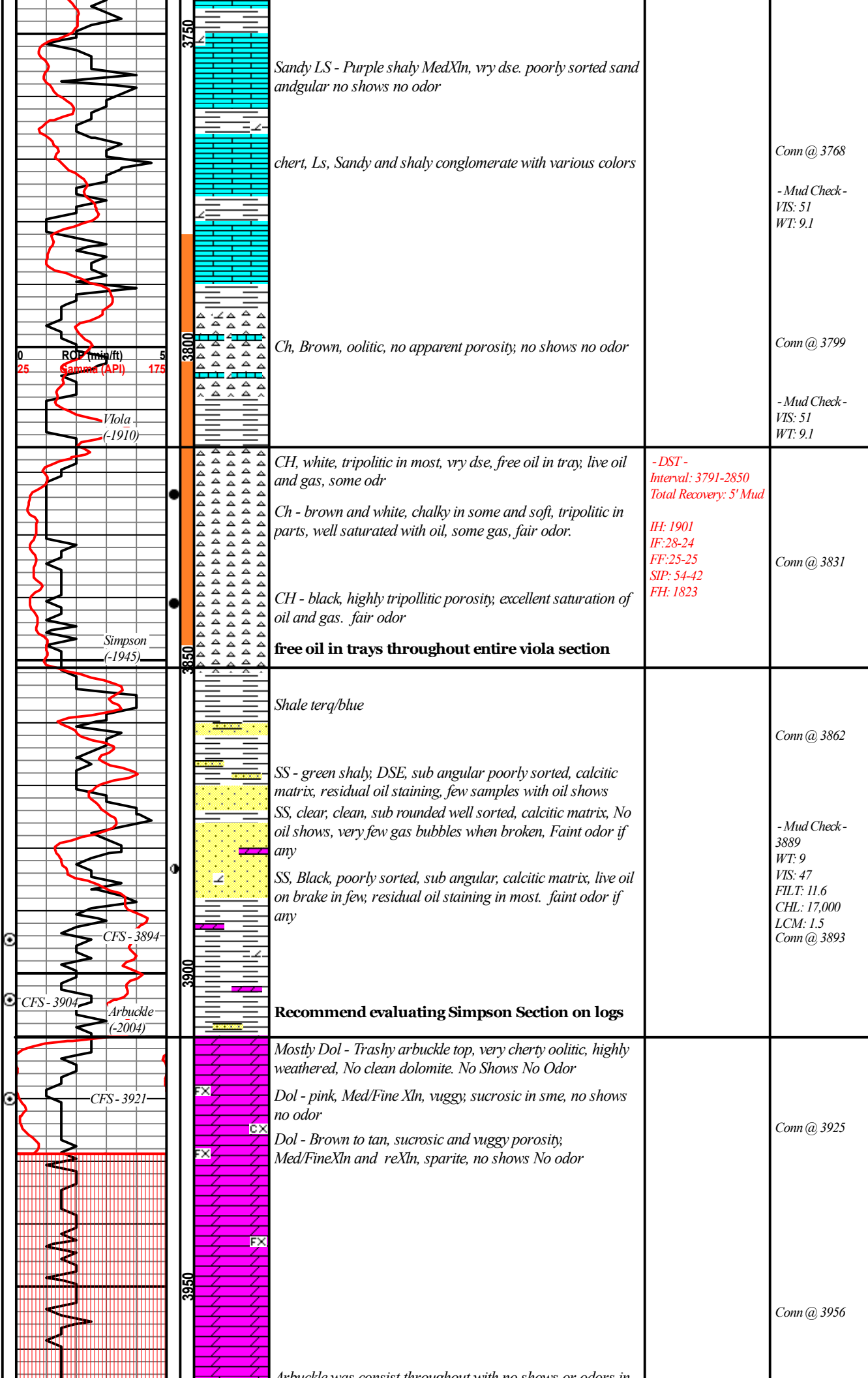
Ls - br - MedXln, weathereed, foss, oolic is sme, shale stringers. no shows no odr

F  
F F  
C F  
F C  
F F  
F  
F









Sandy LS - Purple shaly MedXln, vry dse. poorly sorted sand andgular no shows no odor

chert, Ls, Sandy and shaly conglomerate with various colors

Ch, Brown, oolitic, no apparent porosity, no shows no odor

CH, white, tripolitic in most, vry dse, free oil in tray, live oil and gas, some odr

Ch - brown and white, chalky in some and soft, tripolitic in parts, well saturated with oil, some gas, fair odor.

CH - black, highly tripolitic porosity, excellent saturation of oil and gas. fair odor

**free oil in trays throughout entire viola section**

Shale terq/blue

SS - green shaly, DSE, sub angular poorly sorted, calcitic matrix, residual oil staining, few samples with oil shows

SS, clear, clean, sub rounded well sorted, calcitic matrix, No oil shows, very few gas bubbles when broken, Faint odor if any

SS, Black, poorly sorted, sub angular, calcitic matrix, live oil on brake in few, residual oil staining in most. faint odor if any

**Recommend evaluating Simpson Section on logs**

Mostly Dol - Trashy arbuckle top, very cherty oolitic, highly weathered, No clean dolomite. No Shows No Odor

Dol - pink, Med/Fine Xln, vuggy, sucrosic in sme, no shows no odor

Dol - Brown to tan, sucrosic and vuggy porosity; Med/FineXln and reXln, sparite, no shows No odor

Arbuckle was consist throughout with no shows or odors in

Conn @ 3768

- Mud Check -  
VIS: 51  
WT: 9.1

Conn @ 3799

- Mud Check -  
VIS: 51  
WT: 9.1

- DST -  
Interval: 3791-2850  
Total Recovery: 5' Mud  
  
IH: 1901  
IF: 28-24  
FF: 25-25  
SIP: 54-42  
FH: 1823

Conn @ 3831

Conn @ 3862

- Mud Check -  
3889  
WT: 9  
VIS: 47  
FILT: 11.6  
CHL: 17,000  
LCM: 1.5  
Conn @ 3893

Conn @ 3925

Conn @ 3956



FX

Ar buckle was consist throughout with no shows or odors in any samples.

RTD 3970  
LTD 3968

RTD: 3970  
LTD: 3968

**After reviewing the E-logs and testing the viola, I recommend plugging**

Survey @ 3/4 degrees

0	ROP (min/ft)	5
25	Gamma (API)	175

4000

4050

500