

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 |
|--|---|

| 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 |
|---|--|------------------------------------|

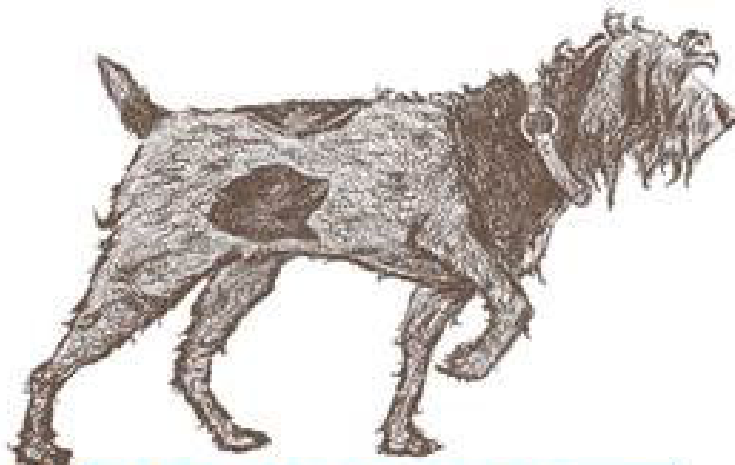
| Shots Per Foot | Perforation Top | Perforation Bottom | Bridge Plug Type | Bridge Plug Set At | Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i> |
|----------------|-----------------|--------------------|------------------|--------------------|---|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| | | | | |
|----------------|-------|---------|------------|--|
| TUBING RECORD: | Size: | Set At: | Packer At: | |
|----------------|-------|---------|------------|--|

| | |
|-----------|------------------------|
| Form | ACO1 - Well Completion |
| Operator | Bird Dog Oil, LLC |
| Well Name | RUTTI-GATES 2-5 |
| Doc ID | 1718111 |

All Electric Logs Run

| |
|-------|
| |
| DI |
| CDNL |
| Micro |
| Sonic |



BIRD DOG OIL, LLC

Scale 1:240 Imperial

Well Name: RUTTI - GATES #2-5
 Surface Location: NE NW SE SE SEC. 5 - 22S - 13W
 Bottom Location:
 API: 15-185-24130
 License Number: 34655
 Spud Date: 1/31/2023 Time: 6:30 PM
 Region: STAFFORD COUNTY KANSAS
 Drilling Completed: 2/9/2023 Time: 11:42 AM
 Surface Coordinates: 1300' FSL & 670' FEL
 Bottom Hole Coordinates:
 Ground Elevation: 1898.00ft
 K.B. Elevation: 1906.00ft
 Logged Interval: 2750.00ft To: 3870.00ft
 Total Depth: 3780.00ft
 Formation: LANSING-KANSAS CITY; VIOLA; ARBUCKLE
 Drilling Fluid Type: Chemical/Fresh Water Gel

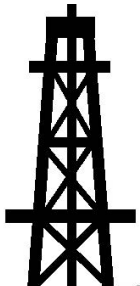
OPERATOR

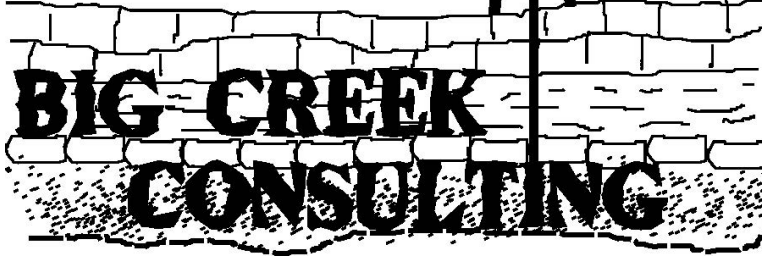
Company: BIRD DOG OIL, LLC
 Address: 1801 BROADWAY
 STE 200
 DENVER, CO 80202-3840
 Contact Geologist: MATTHEW STEWART
 Contact Phone Nbr: (303) 534-1686
 Well Name: RUTTI - GATES #2-5
 Location: NE NW SE SE SEC. 5 - 22S - 13W
 API: 15-185-24130
 Pool:
 State: KANSAS
 Field: UNNAMED
 Country: USA

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: -98.768513
 Latitude: 38.162996
 N/S Co-ord: 1300' FSL
 E/W Co-ord: 670' FEL

LOGGED BY





Company: BIG CREEK CONSULTING, INC
 Address: 3504 DUNCAN ST
 ST. JOE, MO 64507

Phone Nbr: (785) 259-3737
 Logged By: Geologist

Name: JEFF LAWLER

CONTRACTOR

Contractor: FOSSIL DRILLING
 Rig #: 5
 Rig Type: MUD ROTARY
 Spud Date: 1/31/2023
 TD Date: 2/9/2023
 Rig Release: 2/10/2023

Time: 6:30 PM
 Time: 11:42 AM
 Time: 5:00 PM

ELEVATIONS

K.B. Elevation: 1906.00ft
 K.B. to Ground: 8.00ft
 Ground Elevation: 1898.00ft

NOTES

THERE IS A -2' TO -4' CORRECTION TO CORRELATE DRILL TIME TO POROSITY LOG

DUE TO LACK OF ECONOMICAL RECOVERY ON DRILL STEM TESTS AND LOG ANALYSIS DECISION WAS MADE TO PLUG & ABANDON THE RUTTI-GATES #2-5.

RESPECTFULLY SUBMITTED,
 JEFF LAWLER

WELL COMPARISON SHEET

| FORMATION | RUTTI-GATES #2-5 | | | | 1907 | | | | 1907 | | | | 1909 | | | | 1897 | | | |
|---------------|------------------|-------------|------|-------|-------|------------|------|-------|------------|-------|-------|-----------------|------|-------|------|------|-------|-------|------|-------|
| | KB | | GL | | KB | | GL | | KB | | GL | | KB | | GL | | KB | | GL | |
| | 1906 | 1898 | 1906 | 1898 | 1907 | 1907 | 1907 | 1907 | 1907 | 1907 | 1909 | 1909 | 1909 | 1909 | 1897 | 1897 | 1897 | 1897 | 1897 | 1897 |
| | LOG TOPS | SAMPLE TOPS | LOGS | LOG | SMPL. | COMP. CARD | LOG | SMPL. | COMP. CARD | LOG | SMPL. | PLUGGING REPORT | LOG | SMPL. | LOGS | LOG | SMPL. | LOGS | LOG | SMPL. |
| ANHYDRITE TOP | 764 | 1142 | 770 | 1136 | 770 | 1137 | + 5 | - 1 | 771 | 1136 | + 6 | + 0 | 772 | 1137 | + 5 | - 1 | 750 | 1147 | - 5 | - 11 |
| BASE | 789 | 1117 | 793 | 1113 | 788 | 1119 | - 2 | - 6 | 795 | 1112 | + 5 | + 1 | 795 | 1114 | + 3 | - 1 | 775 | 1122 | - 5 | - 9 |
| TOPEKA | 2864 | -958 | 2869 | -963 | 2869 | -962 | + 4 | - 1 | 2878 | -971 | + 13 | + 8 | 2882 | -973 | + 15 | + 10 | | | | |
| HEEBNER | 3241 | -1335 | 3246 | -1340 | 3250 | -1343 | + 8 | + 3 | 3260 | -1353 | + 18 | + 13 | 3265 | -1356 | + 21 | + 16 | 3233 | -1336 | + 1 | - 4 |
| TORONTO | 3261 | -1355 | 3265 | -1359 | 3268 | -1361 | + 6 | + 2 | 3280 | -1373 | + 18 | + 14 | 3286 | -1377 | + 22 | + 18 | 3258 | -1361 | + 6 | + 2 |
| DOUGLASHALE | 3276 | -1370 | 3278 | -1372 | 3283 | -1376 | + 6 | + 4 | 3293 | -1386 | + 16 | + 14 | 3300 | -1391 | + 21 | + 19 | 3270 | -1373 | + 3 | + 1 |
| BROWN LIME | 3374 | -1468 | 3378 | -1472 | 3379 | -1472 | + 4 | + 0 | 3394 | -1487 | + 19 | + 15 | 3399 | -1490 | + 22 | + 18 | 3360 | -1463 | - 5 | - 9 |
| LKC | 3385 | -1479 | 3393 | -1487 | 3394 | -1487 | + 8 | + 0 | 3401 | -1494 | + 15 | + 7 | 3411 | -1502 | + 23 | + 15 | 3376 | -1479 | + 0 | - 8 |
| STARK | 3572 | -1666 | 3578 | -1672 | 3578 | -1671 | + 5 | - 1 | 3596 | -1689 | + 23 | + 17 | | | | | 3553 | -1656 | - 10 | - 16 |
| BKC | 3612 | -1706 | 3616 | -1710 | 3618 | -1711 | + 5 | + 1 | 3634 | -1727 | + 21 | + 17 | 3640 | -1731 | + 25 | + 21 | 3596 | -1699 | - 7 | - 11 |
| VIOLA | 3673 | -1767 | 3676 | -1770 | 3688 | -1781 | + 14 | + 11 | 3699 | -1792 | + 25 | + 22 | 3704 | -1795 | + 28 | + 25 | 3656 | -1759 | - 8 | - 11 |
| SIMPSON SHALE | 3711 | -1805 | 3734 | -1828 | 3734 | -1827 | + 22 | - 1 | 3744 | -1837 | + 32 | + 9 | | | | | 3712 | -1815 | + 10 | - 13 |
| SIMPSON SAND | 3730 | -1824 | 3746 | -1840 | 3742 | -1835 | + 11 | - 5 | 3762 | -1855 | + 31 | + 15 | 3786 | -1877 | + 53 | + 37 | 3725 | -1828 | + 4 | - 12 |
| ARBUCKLE | 3769 | -1863 | 3778 | -1872 | 3778 | -1871 | + 8 | - 1 | 3800 | -1893 | + 30 | + 21 | 3811 | -1902 | + 39 | + 30 | 3760 | -1863 | + 0 | - 9 |
| TOTAL DEPTH | 3868 | -1962 | 3870 | -1964 | 3880 | -1973 | + 11 | + 9 | 3825 | -1918 | - 44 | - 46 | 3850 | -1941 | - 21 | - 23 | 3890 | -1993 | + 31 | + 29 |

DST #1 LKC C - F 3406' - 3468'



DRILL STEM TEST REPORT

Bird Dog Oil LLC.
 1801 Broadway Ste 200
 Denver, Co 80202

5-22S-13W Stafford

Rutti Gates 2-5

Job Ticket: 69340

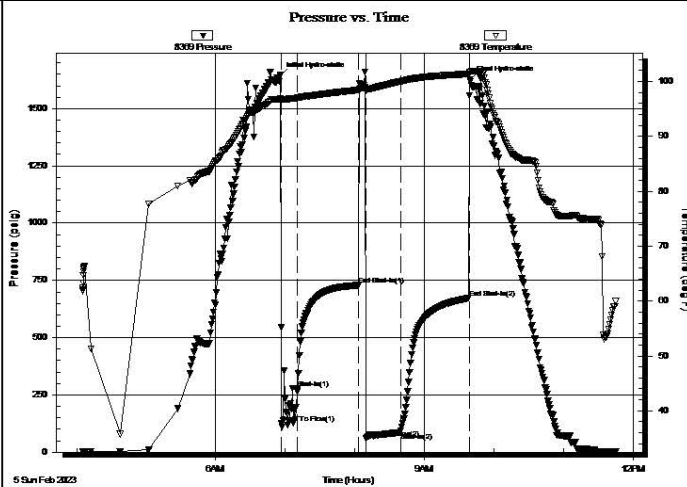
DST#: 1

GENERAL INFORMATION:

Formation: **LKC C-F**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:56:41
 Time Test Ended: 11:44:51
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Eric Burgess
 Unit No: 80
 Interval: **3406.00 ft (KB) To 3468.00 ft (KB) (TVD)**
 Total Depth: 3468.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Reference Elevations: 1910.00 ft (KB)
 1898.00 ft (CF)
 KB to GR/CF: 12.00 ft

Serial #: 8369 Outside
 Press@RunDepth: 86.59 psig @ 3412.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2023.02.05 End Date: 2023.02.05 Last Calib.: 2023.02.05
 Start Time: 04:05:21 End Time: 11:44:51 Time On Btm: 2023.02.05 @ 06:55:41
 Time Off Btm: 2023.02.05 @ 09:39:11

TEST COMMENT: IF:Weak Building Blow built to 3.71" (15)
 IS:No Blow Back. (30)
 FF:Fair Building Blow after Flush built to 11.96" (30)
 FS:No Blow Back. (60)



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1644.02 | 96.92 | Initial Hydro-static |
| 1 | 126.90 | 96.66 | Open To Flow (1) |
| 15 | 279.50 | 97.02 | Shut-In(1) |
| 68 | 729.30 | 98.48 | End Shut-In(1) |
| 74 | 61.91 | 98.31 | Open To Flow (2) |
| 104 | 86.59 | 100.01 | Shut-In(2) |
| 163 | 672.90 | 101.40 | End Shut-In(2) |
| 164 | 1625.65 | 101.77 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|----------------------------|--------------|
| 60.00 | GVSOWCM 10%G 5%O 25%W 60%M | 0.30 |
| 60.00 | GVSOCM 10%G 5%O 85%M | 0.30 |
| 32.00 | GVSOCM 5%G 5%O 90%M | 0.47 |
| 0.00 | 246' GIP | 0.00 |
| | | |
| | | |

Gas Rates

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

DST #2 LKC H - K 3510' - 3600'



DRILL STEM TEST REPORT

Bird Dog Oil LLC.
 1801 Broadway Ste 200
 Denver, Co 80202
 ATTN: Jeff Lawler

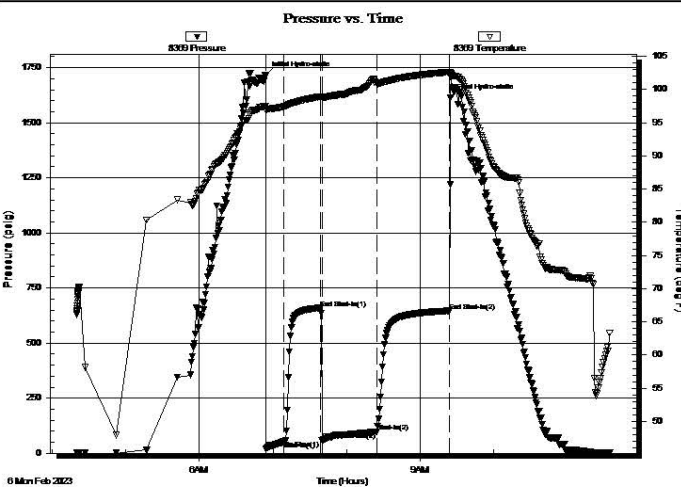
5-22S-13W Stafford
Rutti Gates 2-5
 Job Ticket: 69341 **DST#: 2**
 Test Start: 2023.02.06 @ 04:20:08

GENERAL INFORMATION:

Formation: **LKC H-K**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:54:28
 Time Test Ended: 11:34:28
 Interval: **3510.00 ft (KB) To 3600.00 ft (KB) (TVD)**
 Total Depth: 3600.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Eric Burgess
 Unit No: 80
 Reference Elevations: 1910.00 ft (KB)
 1898.00 ft (CF)
 KB to GR/CF: 12.00 ft

Serial #: 8369 Outside
 Press@RunDepth: 97.44 psig @ 3516.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2023.02.06 End Date: 2023.02.06 Last Calib.: 1899.12.30
 Start Time: 04:20:08 End Time: 11:34:28 Time On Btm: 2023.02.06 @ 06:54:18
 Time Off Btm: 2023.02.06 @ 09:24:48

TEST COMMENT: IF:Fair Building Blow built 3.41" (15)
 IS:No Blow Back. (30)
 FF:Fair Building Blow built to 4.82" (45)
 FS:No Blow Back. (60)



| PRESSURE SUMMARY | | | |
|------------------|-----------------|--------------|----------------------|
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
| 0 | 1714.14 | 97.48 | Initial Hydro-static |
| 1 | 21.76 | 96.88 | Open To Flow (1) |
| 15 | 52.84 | 97.43 | Shut-In(1) |
| 45 | 659.14 | 98.94 | End Shut-In(1) |
| 46 | 59.29 | 98.80 | Open To Flow (2) |
| 90 | 97.44 | 100.87 | Shut-In(2) |
| 150 | 646.05 | 102.62 | End Shut-In(2) |
| 151 | 1614.67 | 102.47 | Final Hydro-static |

| Recovery | | |
|-------------|-------------|--------------|
| Length (ft) | Description | Volume (bbl) |
| 156.00 | OSM 100%M | 1.12 |
| | | |
| | | |
| | | |
| | | |

| Gas Rates | | | |
|-----------|----------------|-----------------|------------------|
| | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
| | | | |

* Recovery from multiple tests

Trilobite Testing, Inc

Ref. No: 69341

Printed: 2023.02.06 @ 11:43:22

DST #3 VIOLA 3658' - 3700'



DRILL STEM TEST REPORT

Bird Dog Oil LLC.
 1801 Broadway Ste 200
 Denver, Co 80202
 ATTN: Jeff Lawler

5-22S-13W Stafford
Rutti Gates 2-5
 Job Ticket: 69342 **DST#: 3**
 Test Start: 2023.02.07 @ 04:48:23

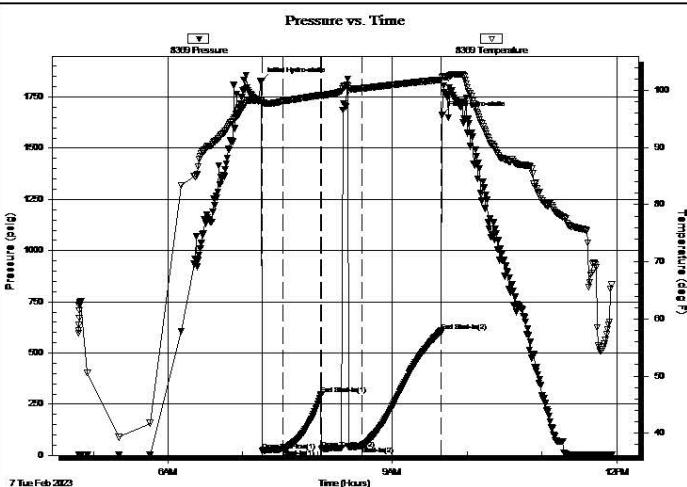
GENERAL INFORMATION:

GENERAL INFORMATION:

Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:15:33
 Time Test Ended: 11:55:53
 Interval: **3658.00 ft (KB) To 3735.00 ft (KB) (TVD)**
 Total Depth: 3735.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Eric Burgess
 Unit No: 80
 Reference Elevations: 1910.00 ft (KB)
 1898.00 ft (CF)
 KB to GR/CF: 12.00 ft

Serial #: 8369 Outside
 Press@RunDepth: 44.23 psig @ 3664.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2023.02.07 End Date: 2023.02.07 Last Calib.: 1899.12.30
 Start Time: 04:48:23 End Time: 11:55:53 Time On Btm: 2023.02.07 @ 07:15:03
 Time Off Btm: 2023.02.07 @ 09:40:03

TEST COMMENT: IF:Weak Building Blow built to 1.08" (15)
 IS:No Blow Back. (30)
 FF:No Blow until after flushing tool built to .37" (30) Tool Not Plugged.
 FS:No Blow Back. (60)



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1828.62 | 98.24 | Initial Hydro-static |
| 1 | 22.50 | 97.71 | Open To Flow (1) |
| 18 | 29.97 | 98.10 | Shut-In(1) |
| 48 | 296.79 | 99.19 | End Shut-In(1) |
| 49 | 32.51 | 99.09 | Open To Flow (2) |
| 81 | 44.23 | 100.35 | Shut-In(2) |
| 144 | 608.12 | 101.86 | End Shut-In(2) |
| 145 | 1664.50 | 102.28 | Final Hydro-static |

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 5.00 | Mud 100%M | 0.02 |
| | | |
| | | |
| | | |
| | | |

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

* Recovery from multiple tests

DST #4 SIMPSON SAND - ARBUCKLE 3726' - 3790' (MISRUN)

| | | |
|---------------------------------------|---|--|
| <p>TRILOBITE TESTING, INC.</p> | DRILL STEM TEST REPORT | |
| | Bird Dog Oil LLC. 1801 Broadway Ste 200 Denver, Co 80202 ATTN: Jeff Lawler | 5-22S-13W Stafford Rutti Gates 2-5 Job Ticket: 69343 Test Start: 2023.02.05 @ 04:05:21 |

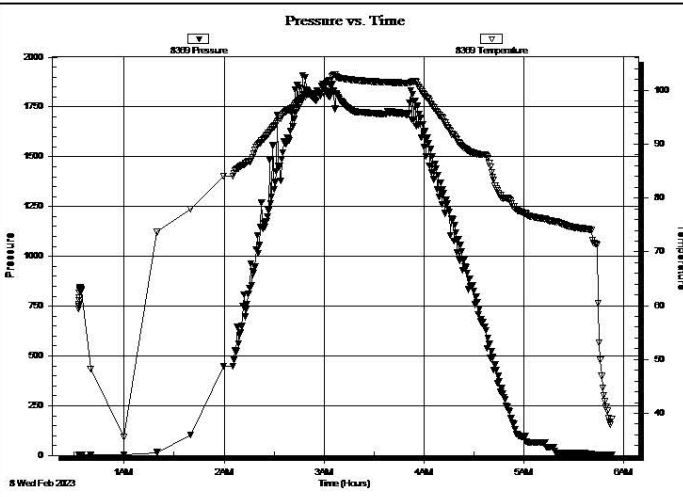
GENERAL INFORMATION:

Formation: **Simpson Sand-Arbuckl**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened:
 Time Test Ended:
 Interval: **3726.00 ft (KB) To 3790.00 ft (KB) (TVD)**
 Total Depth: 3790.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)
 Tester: Eric Burgess
 Unit No: 80
 Reference Elevations: 1910.00 ft (KB)
 1898.00 ft (CF)
 KB to GR/CF: 12.00 ft

Serial #: 8369 Outside
 Press@RunDepth: psig @ 3732.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2023.02.08 End Date: 2023.02.08 Last Calib.: 1899.12.30
 Start Time: 00:32:49 End Time: 05:52:58 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF:Packer Failure.



| PRESSURE SUMMARY | | | |
|------------------|-----------------|--------------|------------|
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| Recovery | | |
|-------------|-------------|--------------|
| Length (ft) | Description | Volume (bbl) |
| 750.00 | M 100%M | 9.80 |
| | | |
| | | |
| | | |
| | | |
| | | |

| Gas Rates | | | |
|-----------|----------------|-----------------|------------------|
| | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

* Recovery from multiple tests

ROCK TYPES

| | | | |
|---------|------------|------------|-------|
| Cht | Lmst fw7> | shale, gry | Shcol |
| Congl | Arg/Shale | Carbon Sh | Ss |
| Dolprim | shale, grn | shale, red | |

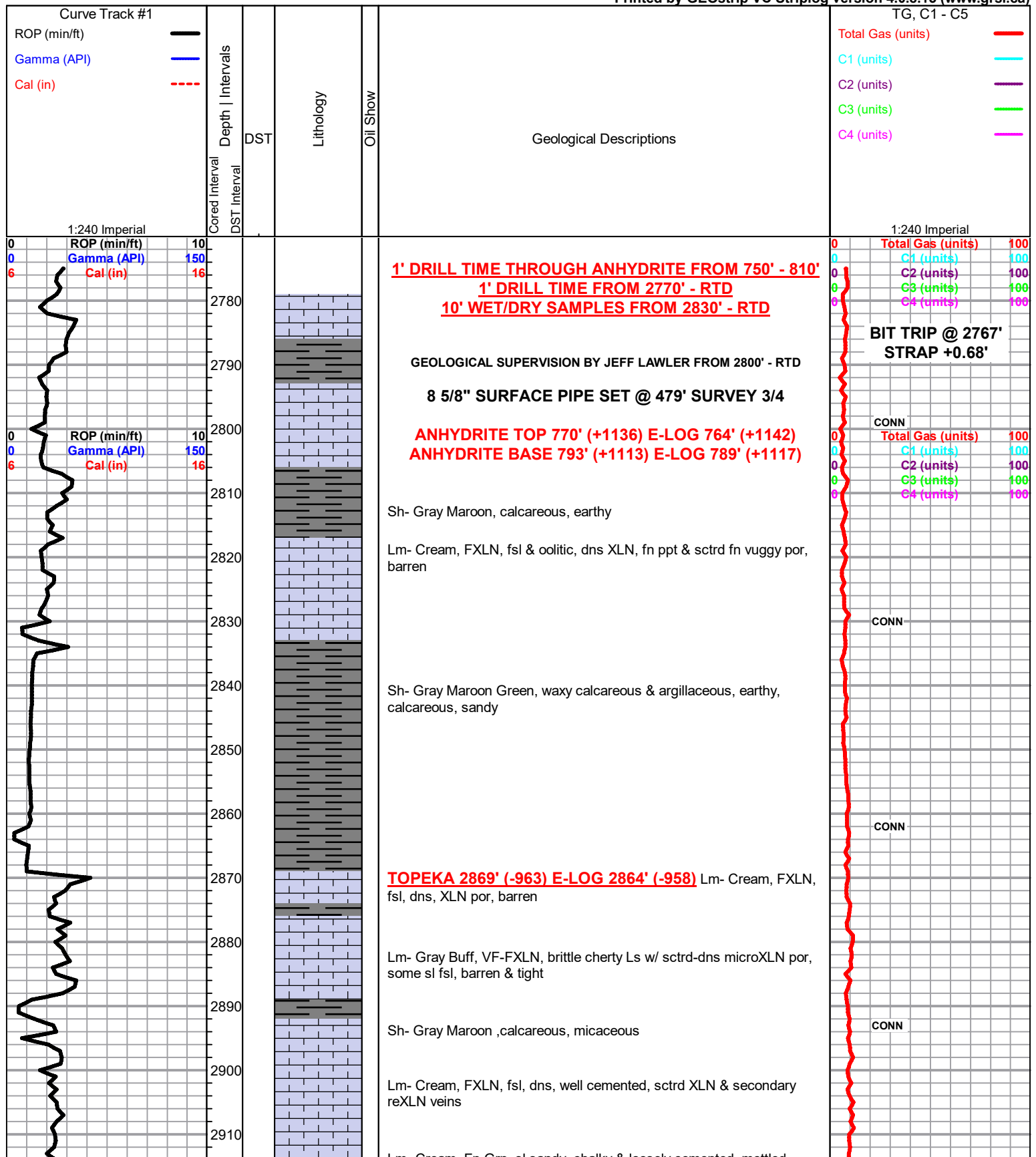
ACCESSORIES

| | |
|---------------|-----------------|
| FOSSIL | STRINGER |
| Oolite | Sandstone |
| Oomoldic | |

OTHER SYMBOLS

| | |
|---------------|------------|
| MISC | DST |
| Daily Report | DST Int |
| Digital Photo | DST alt |
| | Core |

- Document
- Folder
- Link
- Vertical Log File
- Horizontal Log File
- Core Log File
- Drill Cuttings Rpt



1' DRILL TIME THROUGH ANHYDRITE FROM 750' - 810'
1' DRILL TIME FROM 2770' - RTD
10' WET/DRY SAMPLES FROM 2830' - RTD

GEOLOGICAL SUPERVISION BY JEFF LAWLER FROM 2800' - RTD
8 5/8" SURFACE PIPE SET @ 479' SURVEY 3/4

ANHYDRITE TOP 770' (+1136) E-LOG 764' (+1142)
ANHYDRITE BASE 793' (+1113) E-LOG 789' (+1117)

Sh- Gray Maroon, calcareous, earthy

Lm- Cream, FXLN, fsl & oolitic, dns XLN, fn ppt & sctrd fn vuggy por, barren

Sh- Gray Maroon Green, waxy calcareous & argillaceous, earthy, calcareous, sandy

TOPEKA 2869' (-963) E-LOG 2864' (-958) Lm- Cream, FXLN, fsl, dns, XLN por, barren

Lm- Gray Buff, VF-FXLN, brittle cherty Ls w/ sctrd-dns microXLN por, some sl fsl, barren & tight

Sh- Gray Maroon, calcareous, micaceous

Lm- Cream, FXLN, fsl, dns, well cemented, sctrd XLN & secondary reXLN veins

Lm- Cream, Fz Gr, calcareous, sandy, shelly & loosely cemented, mottled

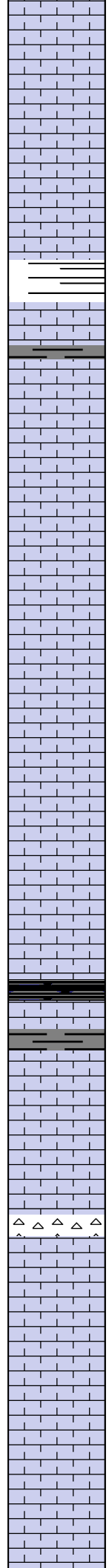
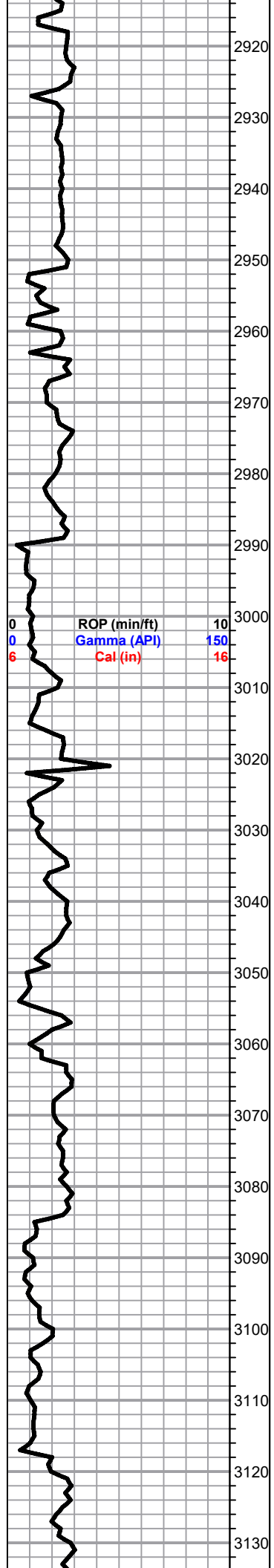
BIT TRIP @ 2767'
STRAP +0.68'

CONN
 Total Gas (units) 100
 C1 (units) 100
 C2 (units) 100
 C3 (units) 100
 C4 (units) 100

CONN

CONN

CONN



Lm- Cream, Fn Grn, sl sandy, chalky & loosely cemented, mottled

2920

Lm- Gray, FXLN, vry well cemented, tight w/o vis. por, few pcs clastic w/ dns XLN por, trashy

2930

Lm- Gray, Fn Grn, calcareous, chalky

2940

Sh- Gray, abundant argillaceous wash/clumps

2950

Lm- Off White, VFXLN, dns, well cemented, sctrd microXLN por, vry clean & barren

2960

Lm- Off White, FXLN, grainy dolomitic Ls, sl fsl w/ fusulinids, dns XLN por, barren

2970

Lm- Cream Buff, FXLN, dolomitic Ls w/ dns microXLN (fractured??) por, some soft white chalk

2980

A/A, massive

2990

Lm- Off White Milky Gray, FXLN, massive fsl dolomitic Ls, grainy, dns XLN por

3000

Lm- Milky White Dove Gray, VFXLN, brittle cherty fsl Ls w/ min. vis. por

3010

Lm- Lt Gray, FXLN, massive, fsl w/ fusulinids & crinoids, dolomitic Ls w/ dns XLN por

3020

Lm- Milky Gray, FXLN, fsl cherty Ls w/ dns XLN por, hvy mottled & spkld

3030

Chert- Tan Buff, VFXLN, dns, fsl w/ min. vis. por., hvy mottled

3040

Sh- Black Gray Maroon, fissile & carbonaceous, calcareous, earthy

3050

Lm- Milky Gray, VF-FXLN, dns cherty & dolomitic Ls, mostly all tight, barren

3060

Lm- Cream, CryptoXLN, brittle cherty Ls, fsl, porcelain like

3070

Chert- Off White Gray, VFXLN, tight & dns w/ sctrd XLN por.

3080

Lm- Cream, FXLN, massive, grainy fsl dolomitic Ls w/ dns XLN por, much soft white chalk

3090

A/A w/ Cream VFXLN tight cherty Ls w/ min. vis. por

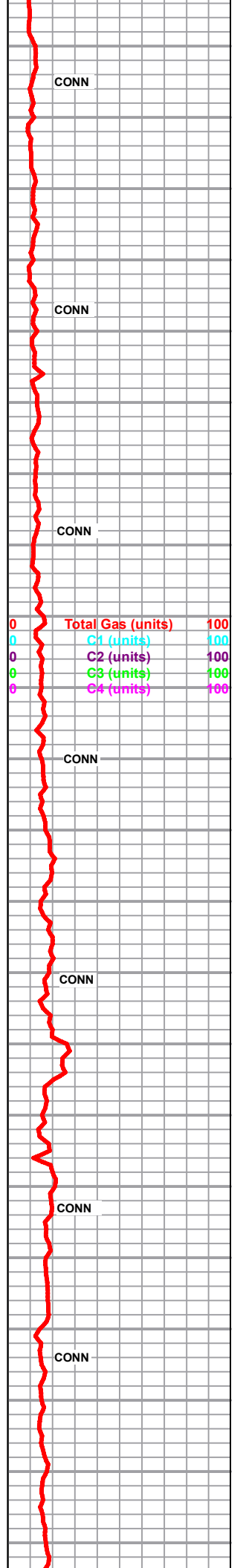
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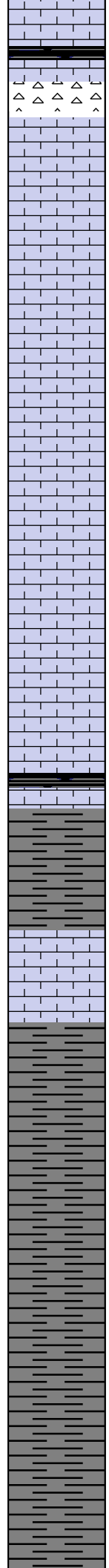
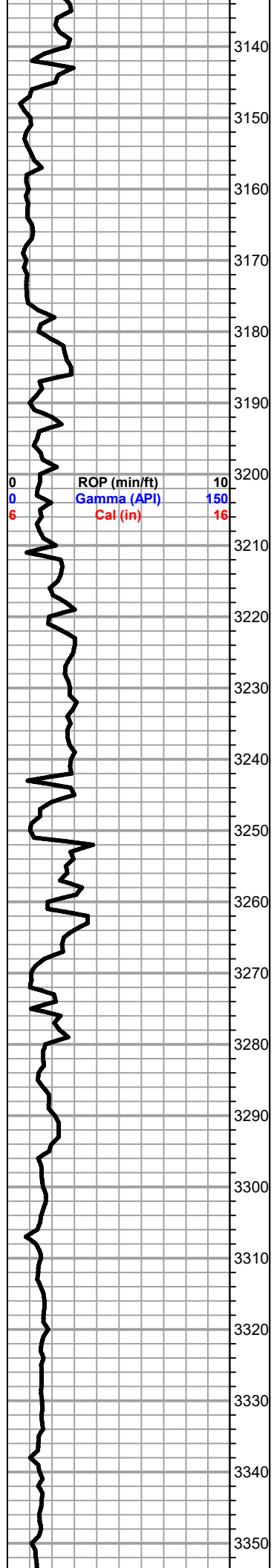
Lm- Cream Buff, FXLN, fsl, well cemented, sctrd XLN por, hvy mottled

3110

3120

3130





Lm- Gray Buff Tan, VFXLN, dns cherty Ls w/ min. vis. por.

Sh- Black Gray Maroon, carbonaceous, calcareous, earthy

Chert- Milky Gray, fsl, vitreous fresh bedded cryptoXLN

Lm- Cream Tan, F-MedXLN, massive fsl dolomitic Ls, grainy, dns XLN por. throughout, much soft white chalk

Lm- Cream, FXLN, well cemented dolomitic Ls w/ dns microXLN por throughout, semi-grainy, barren

Lm- Buff, VFXLN, dns well cemented sl cherty Ls, fsl, sctrd mottling, min. vis. por

Lm- Cream, VF-FXLN, dns tight mix of dolomitic Ls & Ls w/ dns microXLN & sctrd XLN por, barren

Lm- Tan, VFXLN, dns, semi-brittle cherty Ls w/ poor vis. por

A/A

Lm- Cream, FXLN, sl fsl, some loosely cemented & chalky in part, most well cemented w/ vry dns XLN por, barren

HEEBNER 3246' (-1340) E-LOG 3241' (-1335) Sh- Black Gray Maroon, carbonaceous, sl sandy, calcareous, earthy

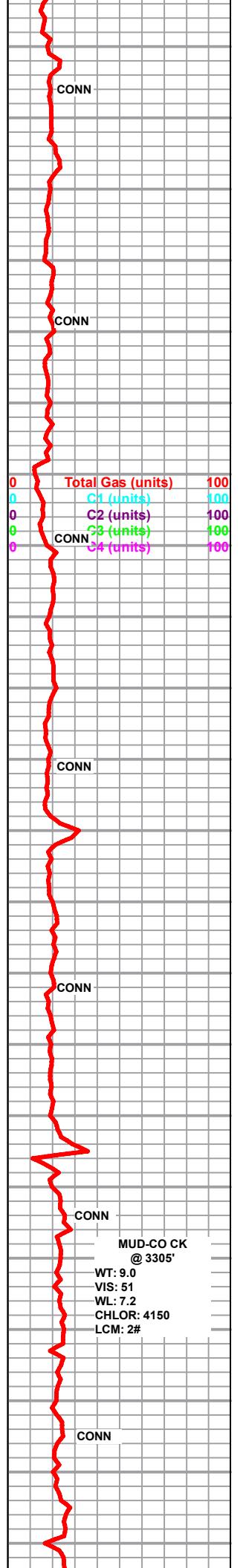
TORONTO 3265' (-1359) E-LOG 3261' (-1355) Lm- Cream Off White, FXLN mix of fsl massive Ls w/ dns XLN & sctrd vry fn ppt por., & FXLN dolomite w/ dns XLN por throughout, some loosely cemented, much soft white chalk

DOUGLAS SHALE 3278' (-1372) E-LOG 3276' (-1370) Sh- Gray Maroon, soft & calcareous, earthy, argillaceous

A/A w/ sandy gray shale/shaley sand

A/A micaceous sandy shale/shaley sand

A/A



CONN

CONN

CONN

CONN

CONN

CONN

CONN

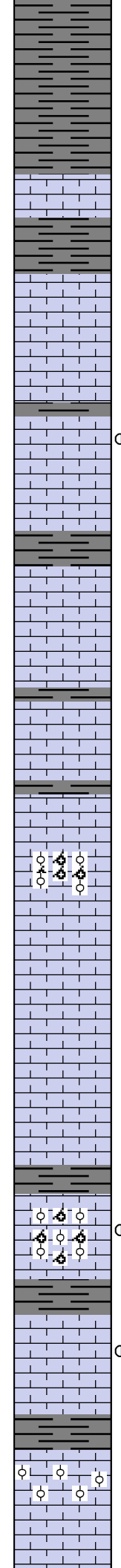
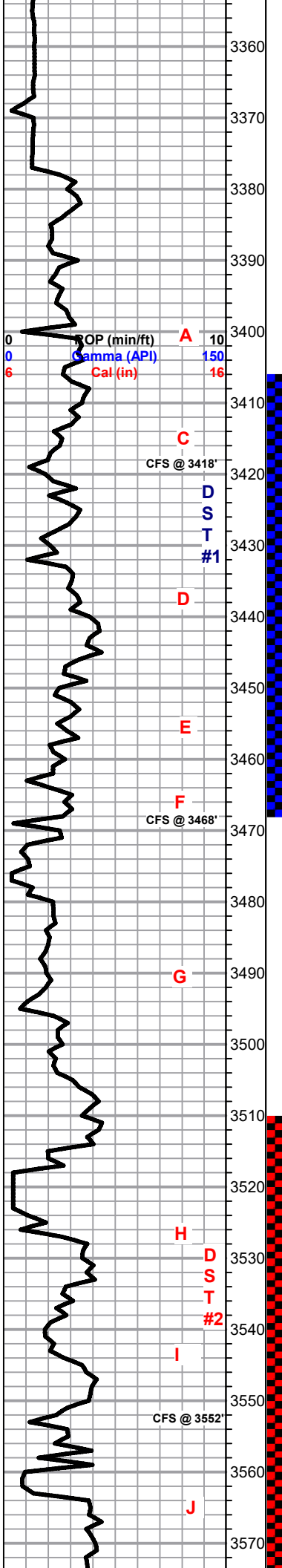
CONN

CONN

CONN

CONN

MUD-CO CK
@ 3305'
WT: 9.0
VIS: 51
WL: 7.2
CHLOR: 4150
LCM: 2#



A/A

BROWN LIME 3378' (-1472) E-LOG 3374' (-1468) Lm- Brown Tan, VF-FXLN, dns & well cemented, fsl, sctrd XLN por

LKC 3393' (-1487) E-LOG 3385' (-1479) Lm- Cream, FXLN, fsl & oolitic, mix of loosely cemented & chalky to well cemented w/ sctrd-dns XLN por, clean & barren

Lm- Cream Off White, FXLN, fsl & sl oolitic, dns XLN & sctrd fn ppt por, barren

Lm- Cream Off White, FXLN, fsl & sl oolitic, dns XLN & sctrd ppt por, SCTRDR LT & DO STN, TR FO, FR ODR

Lm- Cream, FXLN, sl fsl, dns XLN por, barren, few pcs of fsl vitreous bedded chert

Lm- Cream Tan, VF-FXLN, vry well cemented, dns, fsl & oolitic, sctrd-vry dns XLN por, vry dns reXLN por, barren

Lm- Buff, FXLN, fsl, sl trashy, dns XLN por, some w/ dns reXLN por, barren

Lm- Cream Tan, FXLN, fsl dolomitic Ls, vry dns XLN (fractured??) & secondary reXLN por, barren,

Lm- Cream, FXLN, fsl & oolitic, dns XLN & sctrd fn ppt por., barren, some soft white chalk

Lm- Tan, FXLN, oolitic/oolimoldic, dns XLN & sctrd vuggy por, poor vugular connectivity, barren

Lm- Cream Off White, FXLN, fsl & sl oolitic, dns XLN por, many w/ min. vis por, some soft white chalk, barren

Lm/Chert- Mix of Cream FXLN, fsl cherty Ls w/ sctrd XLN por & Milky Gray VF-FXLN fsl bedded chert, some pcs dolomitic w/ sctrd-dns XLN por, barren

Lm- Cream Tan, VF-FXLN, dns, well cemented, mostly tight w/ sctrd XLN por, barren, sctrd mottling

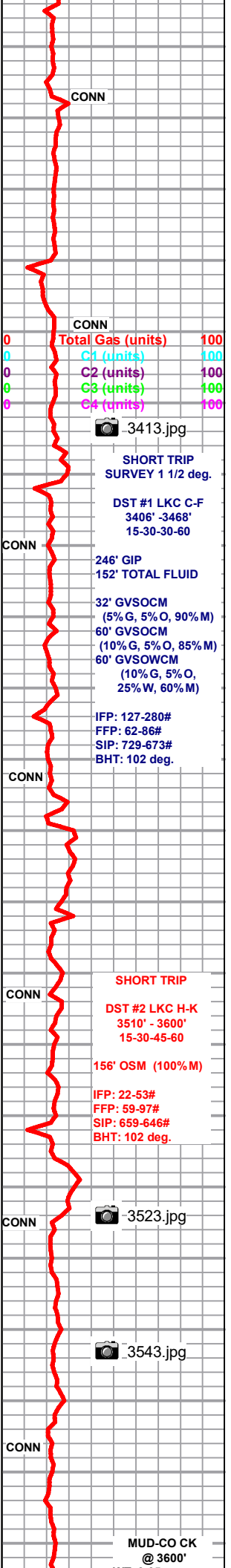
Lm- Cream, FXLN, oolitic/oolimoldic, dns XLN & sctrd vuggy por., sctrd vugular connectivity, SCTRDR DRK STN, OILY SHEEN, FR ODR

Lm- Off White Cream, F-MEDXLN, oolitic, mod. well dev. w/ dns XLN & ppt por, SCTRDR DRK STN, SHW FO, FR ODR

Lm- Tan, FXLN, sl fsl, dns, well cemented, dns XLN por, barren

Sh- Gray Maroon Green, calcareous, earthy

Lm- Cream Off White, VF-FXLN, mix of well cemented fsl & oolitic w/ dns XLN por, loosely cemented & chalky in part, some soft white chalk, & vry dns VFXLN, well cemented cherty Ls w/ min. vis. por, all barren



CONN

CONN

| | | |
|---|-------------------|-----|
| 0 | Total Gas (units) | 100 |
| 0 | C1 (units) | 100 |
| 0 | C2 (units) | 100 |
| 0 | C3 (units) | 100 |
| 0 | C4 (units) | 100 |

3413.jpg

SHORT TRIP SURVEY 1 1/2 deg.

DST #1 LKC C-F
3406' - 3468'
15-30-30-60

CONN

246' GIP
152' TOTAL FLUID

32' GVSOCM (5% G, 5% O, 90% M)
60' GVSOCM (10% G, 5% O, 85% M)
60' GVSOWCM (10% G, 5% O, 25% W, 60% M)

IFP: 127-280#
FFP: 62-86#
SIP: 729-673#
BHT: 102 deg.

CONN

SHORT TRIP

DST #2 LKC H-K
3510' - 3600'
15-30-45-60

156' OSM (100% M)

IFP: 22-53#
FFP: 59-97#
SIP: 659-646#
BHT: 102 deg.

CONN

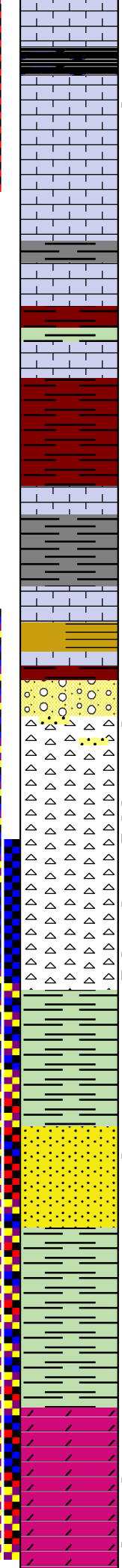
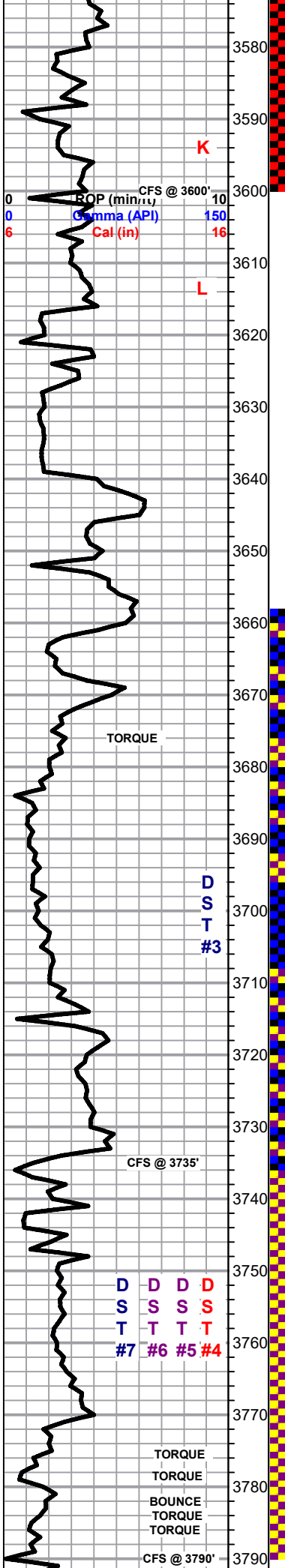
3523.jpg

CONN

3543.jpg

CONN

MUD-CO CK @ 3600'



Sh- Black Gray, carbonaceous, semi-waxy

Lm- Off White, FXLN, fsl & oolitic, dns XLN, vry fn ppt & sctrd ppt por, SCTRDRK DRK STN, TR FO, FR ODR

Lm- Cream, FXLN, sl fsl & oolitic, dns & well cemented, sctrd XLN por, several pcs of VFXLN sl cherty Ls w/ poor vis. por, all barren

Sh- Gray Green Maroon, calcareous, earthy

Lm- Off White, FXLN, fsl & oolitic, sl splkd w/ chlorite/glaucouonite, sctrd XLN por, sctrd clear replacement cementation, barren

BKC 3616' (-1710) E-LOG 3612' (-1706) Sh- Gray Green Maroon, calcareous, abundant argillaceous wash

A/A

Lm- Tan, VFXLN, dns, well cemented cherty Ls w/ poor vis. por,

Sh- Gray Green Maroon, semi-waxy, calcareous & several pcs of conglomerate & fresh bedded dark opaque chert

Lm- Cream Lt Green, mix of dolomitic Ls & cherty dolomite w/ consistent microXLN por throughout, barren

Conglomerate Ls- Lt Green Cream, FXLN, well cemented, mostly tight w/ sctrd XLN por, barren, Ss- Clear, Fn Grn, immature sub-angular, semi-friable, consolidated & mod. sorted, SAT DRK STN, NSFO, NODR

VIOLA 3676' (-1770) E-LOG 3673' (-1767) Chert- Bone White, CryptoXLN, vitreous fresh bedded, barren

Chert- Bone White, A/A w/ VFXLN, gritty, dns microXLN por. throughout, SCTRDRK SAT DRK & BLK STN, NSFO, NODR, WK YLW FLOR.

A/A w/ several pcs of Chert w/ dns XLN & sctrd ppt por (fractures??), SAT DRK STN, TR FO, TR ODR

Chert- Bone White, vitreous fresh bedded cryptoXLN, barren, some pcs sl limey & crumbley & dolomitic chert w/ consistent XLN por through, SCTRDRK SAT BRWN STN, TR FO, TR ODR, BRT YLW FLOR., numerous pcs of barren cryptoXLN

SIMPSON SHALE 3734' (-1828) E-LOG 3711' (-1805) Sh- Maroon Green, argillaceous waxy & blocky

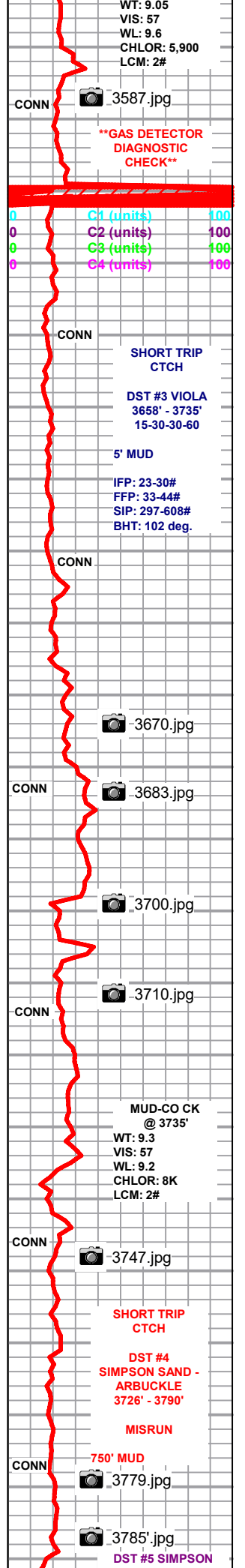
SIMPSON SAND 3746' (-1840) E-LOG 3730' (-1824) Ss- Clear, Fn Grn, vry friable to semi-friable, sub-angular, consolidated & mod. sorting, BARREN TO SAT DRK & BLK STN, TR FO, TR ODR (?), BRT YLW STRM CUT

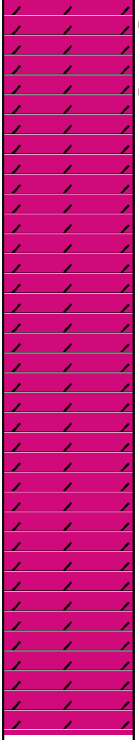
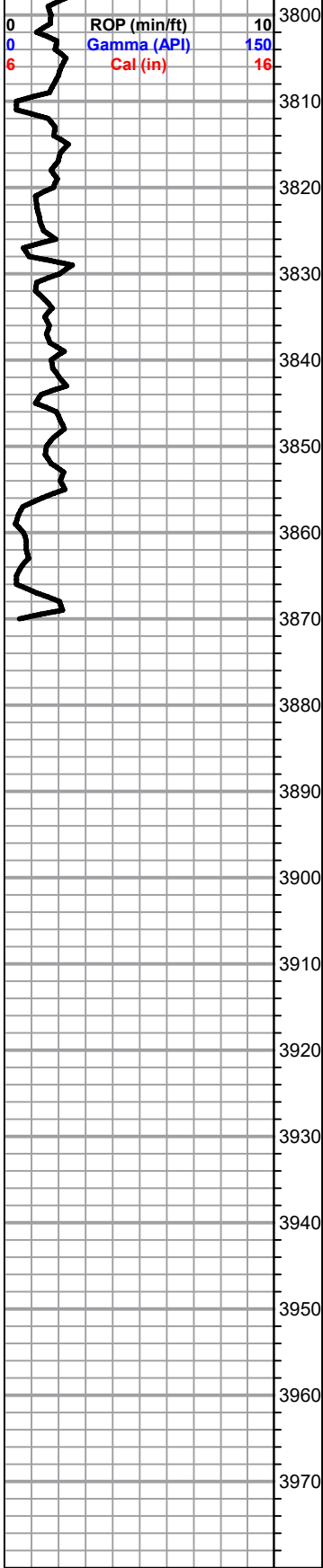
Sh- Green Gray Maroon Mustard Yellow, dns, blocky & waxy, some argillaceous wash

Dol- Cream, VFXLN, dns, well cemented limey dol w/ consistent microXLN por, barren

ARBUCKLE 3778' (-1872) E-LOG 3769' (-1863) Dol- Cream Buff, VF-FXLN, mix of loosely cemented w/ dns XLN por throughout, sucrosic, & F-MEDXLN, dns XLN por, ALL W/ SCTRDRK DRK STN, TR FO, FR SULPHURIC ODR

3785' Dol- Off White Buff, VF-MedXLN, most well cemented, dns-consistent XLN por throughout, MedXLN w/ sctrd vry fn ppt por, SHW A/A, TR FO, CD SULPHURIC ODR, many barren VF FXLN





A/A, TR FO, GD SULPHURIC ODR, many barren VF-FXLN
3796'- Dol- Cream White Translucent, mix of F-MXLN, well & loosely cemented, massive, consistent XLN-ppt por, sucrosic, & cherty dol. w/ dns XLN & sctrd fn ppt por, SCTRD DRK STN, TR FO, GD SULPHURIC ODR & cryptoXLN bedded chert, & MXLN, massive, sucrosic, ppt por, barren
3803'- Dol- Cream, M-CrsXLN, massive, sucrosic w/ consistent fn ppt por throughout, HVY OIL SHEEN, GD SHW, GD SULPHURIC ODR
3812'- Dol- Cream Off White, VF-FXLN, mix of sl cherty, cherty Dol, tight to dns XLN por, few pcs tight w microXLN por, mostly barren
3823'- Dol- Off White Cream, F-MedXLN, sub-sucrosic, consistent XLN-ppt por, barren
3831'- A/A w/ fresh bedded bone white CryptoXLN chert & soft white chalk
3840'- Dol- Cream Buff, VF-FXLN, dns cherty dol w/ consistent microXLN por., barren

Dol- Off White, VF-FXLN, dns & well cemented, tight w/ microXLN & sctrd vuggy por, some clear replacement oolitic inclusions, all barren

A/A w/ influx of vuggy por

RTD 3870' (-1964) LTD 3868' (-1962)@ 11:42 2/9/2023

3710' - 3790'
MISRUN
Total 152' MUD
C1 (units) 100
C2 (units) 100
C3 (units) 100
C4 (units) 100
CONN
 -DST 5.jpg
DST #6 SIMPSON SAND - ARBUCKLE
3658' - 3790'
15-30-15-60
2008' TOTAL FLUID
250' WCM (50/50)
250' MCW (70% W, 30% M)
250' MCW (80% W, 20% M)
250' MCW (95% W, 5% M)
1008' WATER
CHLOR: 24K
Rw: .38 @ 54
IFP: 231-646#
FFP: 649-948#
SIP: 1278-1279#
BHT: 109 deg.
CONN
 DST 6.jpg
SURVEY 2 deg.
TOH FOR LOGS
 3803.jpg
MUD-CO CK @ 3870
WT: 9.1
VIS: 57
WL: 8.8
CHLOR: 7,500
LCM: 2#
DST #7 SIMPSON SAND - ARBUCKLE
3690' - 3779'
(STRADDLE)
15-30-45-60
876' TOTAL FLUID
63' OSM (100% M)
126' GVSOWCM (5% G, 5% O, 30% W, 60% M)
63' GVSOWCM (2.5% G, 2.5% O, 45% W, 50% M)
63' GOSMCW (5% G, 70% W, 25% M)
561' WATER
CHLOR: 22K
IFP: 46-171#
FFP: 657-383#
SIP: 1420-1294#
BHT: 110 deg.
 DST 7.jpg
 DST7 BTMPKR.jpg

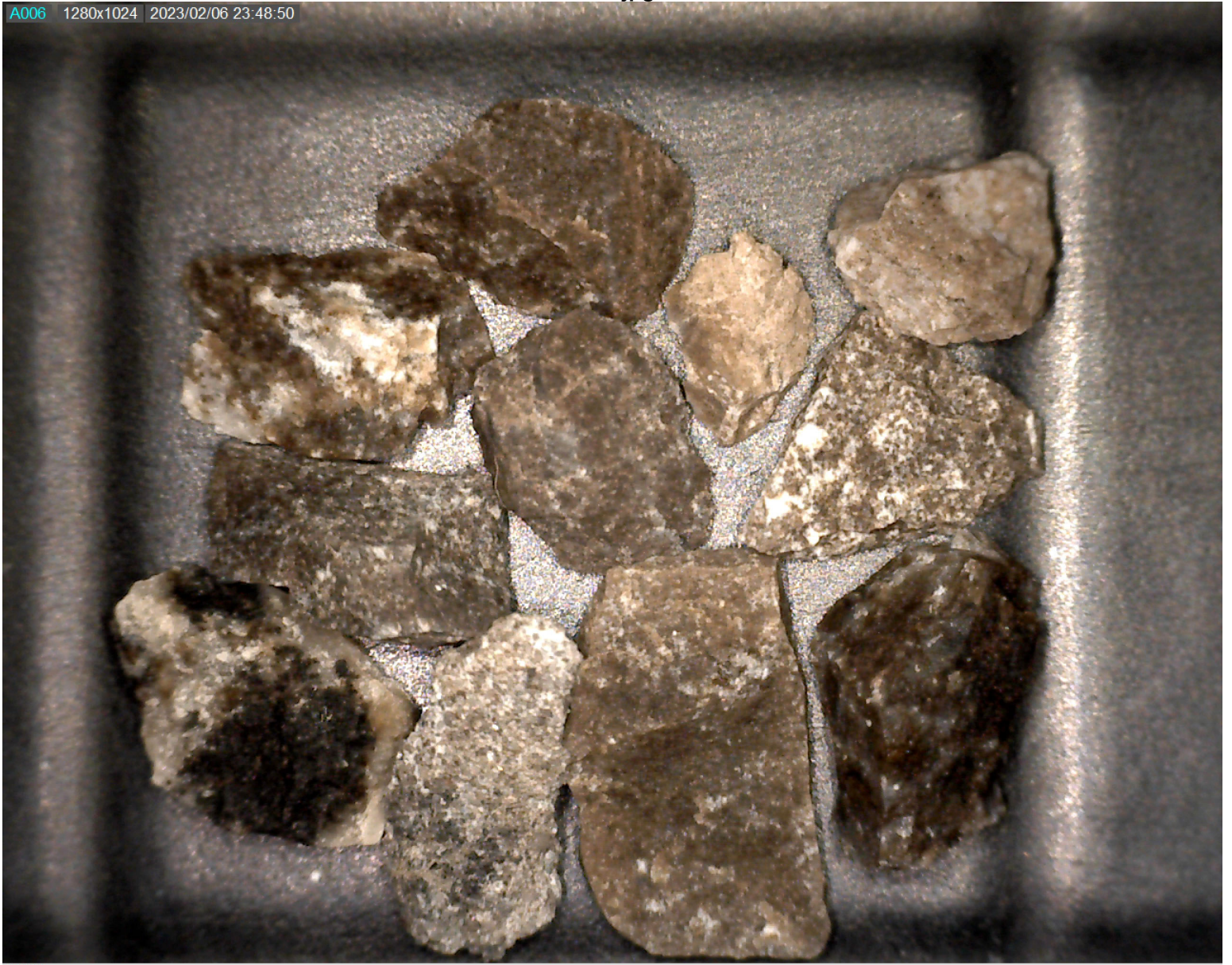















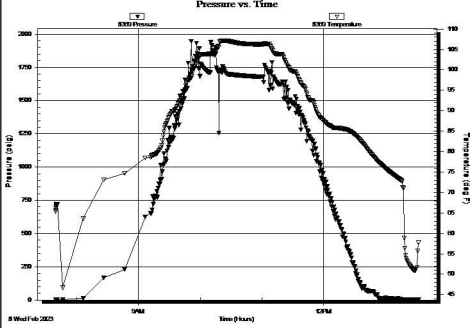






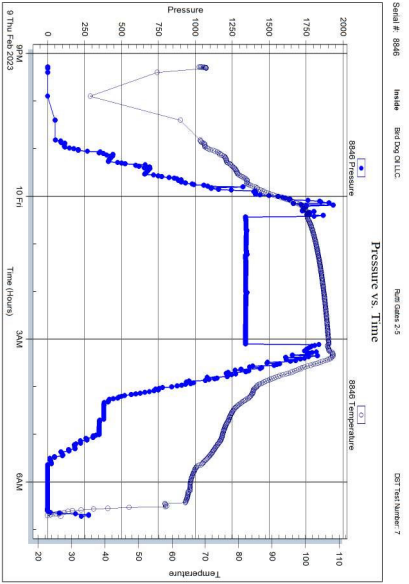


DST 5.jpg

|  | DRILL STEM TEST REPORT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|------------|------------------|-------------|-------------|--------------|-------------|-----------------|--------------|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|-----------|--|--|--|----------------|-----------------|------------------|--|--|--|--|--|--|--|--|--|
| | Bird Dog Oil LLC. 1801 Broadway Ste 200 Denver, Co 80202 ATTN: Jeff Lawler | 5-22S-13W Stafford Rutti Gates 2-5 Job Ticket: 69344 DST#: 5 Test Start: 2023.02.08 @ 07:39:23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GENERAL INFORMATION: Formation: Simpson Sand-Arbuckl Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset) Time Tool Opened: Tester: Eric Burgess Time Test Ended: 13:32:43 Unit No: 80 Interval: 3710.00 ft (KB) To 3790.00 ft (KB) (TVD) Reference Elevations: 1910.00 ft (KB) Total Depth: 3790.00 ft (KB) (TVD) 1898.00 ft (CF) Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 12.00 ft | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Serial #: 8369 Outside Press@RunDepth: psig @ 3716.00 ft (KB) Capacity: 8000.00 psig Start Date: 2023.02.08 End Date: 2023.02.08 Last Calib.: 1899.12.30 Start Time: 07:39:23 End Time: 13:32:43 Time On Btm: Time Off Btm: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TEST COMMENT: IF:Packer Failure. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4" style="text-align: center;">PRESSURE SUMMARY</th> </tr> <tr> <th style="width:15%;">Time (Min.)</th> <th style="width:15%;">Pressure (psig)</th> <th style="width:15%;">Temp (deg F)</th> <th style="width:55%;">Annotation</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> | | PRESSURE SUMMARY | | | | Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Recovery | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Length (ft) | Description | Volume (bbl) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 152.00 | Mud 100%M | 1.06 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Gas Rates | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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DST7_BTMPKR.jpg



Serial #: 8886 Model: B8109-011C Ref: Gen: 3.5 DST Test Number: 7
Thesis Number: 30 Ref. No.: 88206 Printed: 2023/02/19 @ 07:11:11



DRILL STEM TEST REPORT

Prepared For: **Bird Dog Oil LLC.**

1801 Broadway Ste 200
Denver, CO 80202

ATTN: Jeff Lawler

Rutti Gates #2-5

5-22S-13W Stafford,KS

Start Date: 2023.02.05 @ 04:05:21

End Date: 2023.02.05 @ 11:44:51

Job Ticket #: 69340 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2023.02.13 @ 08:30:57



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Bird Dog Oil LLC.
1801 Broadway Ste 200
Denver, CO 80202
ATTN: Jeff Lawler

5-22S-13W Stafford,KS

Rutti Gates #2-5

Job Ticket: 69340 **DST#: 1**
Test Start: 2023.02.05 @ 04:05:21

GENERAL INFORMATION:

Formation: **LKC C-F**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:56:41
Time Test Ended: 11:44:51
Interval: **3406.00 ft (KB) To 3468.00 ft (KB) (TVD)**
Total Depth: 3468.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Eric Burgess
Unit No: 80
Reference Elevations: 1910.00 ft (KB)
1898.00 ft (CF)
KB to GR/CF: 12.00 ft

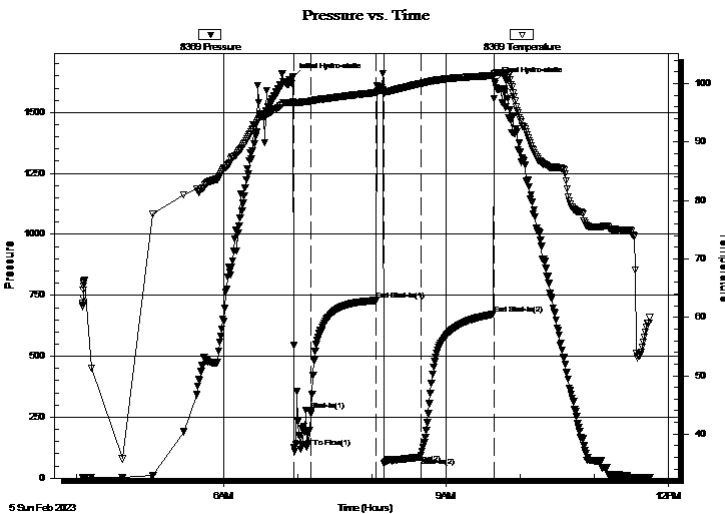
Serial #: 8369

Outside

Press@RunDepth: 86.59 psig @ 3412.00 ft (KB)
Start Date: 2023.02.05 End Date: 2023.02.05
Start Time: 04:05:22 End Time: 11:44:51
Capacity: 8000.00 psig
Last Calib.: 2023.02.05
Time On Btm: 2023.02.05 @ 06:55:41
Time Off Btm: 2023.02.05 @ 09:39:11

TEST COMMENT: IF:Weak Building Blow built to 3.71" (15)
IS:No Blow Back. (30)
FF:Fair Building Blow after Flush built to 11.96" (30)
FS:No Blow Back. (60)

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1644.02 | 96.92 | Initial Hydro-static |
| 1 | 126.90 | 96.66 | Open To Flow (1) |
| 15 | 279.50 | 97.02 | Shut-In(1) |
| 68 | 729.30 | 98.48 | End Shut-In(1) |
| 74 | 61.91 | 98.31 | Open To Flow (2) |
| 104 | 86.59 | 100.01 | Shut-In(2) |
| 163 | 672.90 | 101.40 | End Shut-In(2) |
| 164 | 1625.65 | 101.77 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-----------------------------|--------------|
| 60.00 | GV SOWCM 10%G 5%O 25%W 60%M | 0.30 |
| 60.00 | GV SOCM 10%G 5%O 85%M | 0.30 |
| 32.00 | GV SOCM 5%G 5%O 90%M | 0.47 |
| 0.00 | 246' GIP | 0.00 |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Bird Dog Oil LLC.
1801 Broadway Ste 200
Denver, CO 80202
ATTN: Jeff Lawler

5-22S-13W Stafford, KS
Rutti Gates #2-5
Job Ticket: 69340 **DST#: 1**
Test Start: 2023.02.05 @ 04:05:21

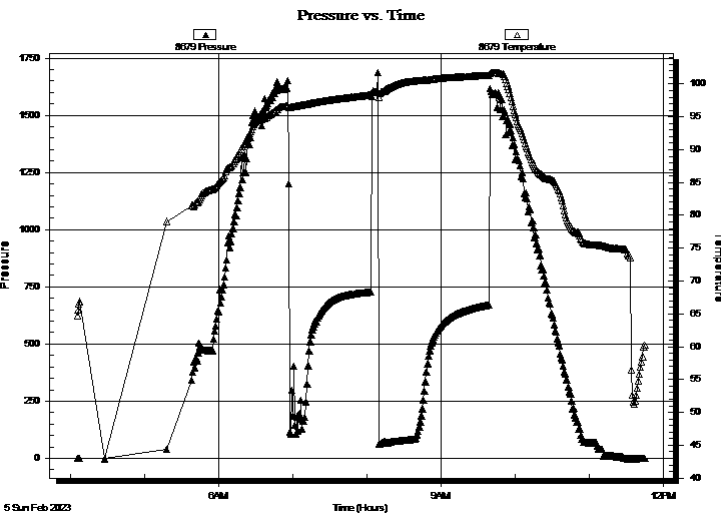
GENERAL INFORMATION:

Formation: **LKC C-F**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:56:41
Time Test Ended: 11:44:51
Interval: **3406.00 ft (KB) To 3468.00 ft (KB) (TVD)**
Total Depth: 3468.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Eric Burgess
Unit No: 80
Reference Elevations: 1910.00 ft (KB)
1898.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8679

Press@RunDepth: psig @ ft (KB) Capacity: 8000.00 psig
Start Date: 2023.02.05 End Date: 2023.02.05 Last Calib.: 1899.12.30
Start Time: 04:06:04 End Time: 11:45:39 Time On Btm:
Time Off Btm:

TEST COMMENT: IF:Weak Building Blow built to 3.71" (15)
IS:No Blow Back. (30)
FF:Fair Building Blow after Flush built to 11.96" (30)
FS:No Blow Back. (60)



PRESSURE SUMMARY

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

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-----------------------------|--------------|
| 60.00 | GV SOWCM 10%G 5%O 25%W 60%M | 0.30 |
| 60.00 | GV SOCM 10%G 5%O 85%M | 0.30 |
| 32.00 | GV SOCM 5%G 5%O 90%M | 0.47 |
| 0.00 | 246' GIP | 0.00 |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bird Dog Oil LLC.

5-22S-13W Stafford,KS

1801 Broadway Ste 200
Denver, CO 80202

Rutti Gates #2-5

Job Ticket: 69340

DST#: 1

ATTN: Jeff Lawler

Test Start: 2023.02.05 @ 04:05:21

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|----------------------------|------------------------------------|
| Drill Pipe: | Length: 3283.00 ft | Diameter: 3.88 inches | Volume: 48.01 bbl | Tool Weight: 2000.00 lb |
| Heavy Wt. Pipe: | Length: ft | Diameter: inches | Volume: - bbl | Weight set on Packer: 24000.00 lb |
| Drill Collar: | Length: 120.00 ft | Diameter: 2.25 inches | Volume: 0.59 bbl | Weight to Pull Loose: 24000.00 lb |
| | | | <u>Total Volume: - bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 23.00 ft | | | String Weight: Initial 62000.00 lb |
| Depth to Top Packer: | 3406.00 ft | | | Final 62000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 62.00 ft | | | |
| Tool Length: | 88.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

| | | | | | |
|---------------------------|--------------|------|---------|---------|-------------------------------|
| Change Over Sub | 1.00 | | | 3381.00 | |
| Shut In Tool | 5.00 | | | 3386.00 | |
| Hydraulic tool | 5.00 | | | 3391.00 | |
| Em Tool | 3.00 | | | 3394.00 | |
| Safety Joint | 3.00 | | | 3397.00 | |
| Packer | 4.00 | | | 3401.00 | 26.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3406.00 | |
| Stubb | 1.00 | | | 3407.00 | |
| Perforations | 4.00 | | | 3411.00 | |
| Change Over Sub | 1.00 | | | 3412.00 | |
| Recorder | 0.00 | 8369 | Outside | 3412.00 | |
| Recorder | 0.00 | 8846 | Inside | 3412.00 | |
| Blank Spacing | 32.00 | | | 3444.00 | |
| Change Over Sub | 1.00 | | | 3445.00 | |
| Perforations | 20.00 | | | 3465.00 | |
| Bullnose | 3.00 | | | 3468.00 | 62.00 Bottom Packers & Anchor |
| Total Tool Length: | 88.00 | | | | |



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Bird Dog Oil LLC.

5-22S-13W Stafford,KS

1801 Broadway Ste 200
Denver, CO 80202

Rutti Gates #2-5

Job Ticket: 69340

DST#: 1

ATTN: Jeff Lawler

Test Start: 2023.02.05 @ 04:05:21

Mud and Cushion Information

| | | | | | |
|--------------|----------------------|-----------------------|------|-----------------|-----------|
| Mud Type: | | Cushion Type: | | Oil API: | deg API |
| Mud Weight: | 9.00 lb/gal | Cushion Length: | ft | Water Salinity: | 12000 ppm |
| Viscosity: | 51.00 sec/qt | Cushion Volume: | bbbl | | |
| Water Loss: | 7.17 in ³ | Gas Cushion Type: | | | |
| Resistivity: | ohm.m | Gas Cushion Pressure: | psig | | |
| Salinity: | 4150.00 ppm | | | | |
| Filter Cake: | 0.20 inches | | | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbbl |
|--------------|----------------------------|----------------|
| 60.00 | GVSOWCM 10%G 5%O 25%W 60%M | 0.295 |
| 60.00 | GVSOCM 10%G 5%O 85%M | 0.295 |
| 32.00 | GVSOCM 5%G 5%O 90%M | 0.468 |
| 0.00 | 246' GIP | 0.000 |

Total Length: 152.00 ft Total Volume: 1.058 bbl

Num Fluid Samples: 0

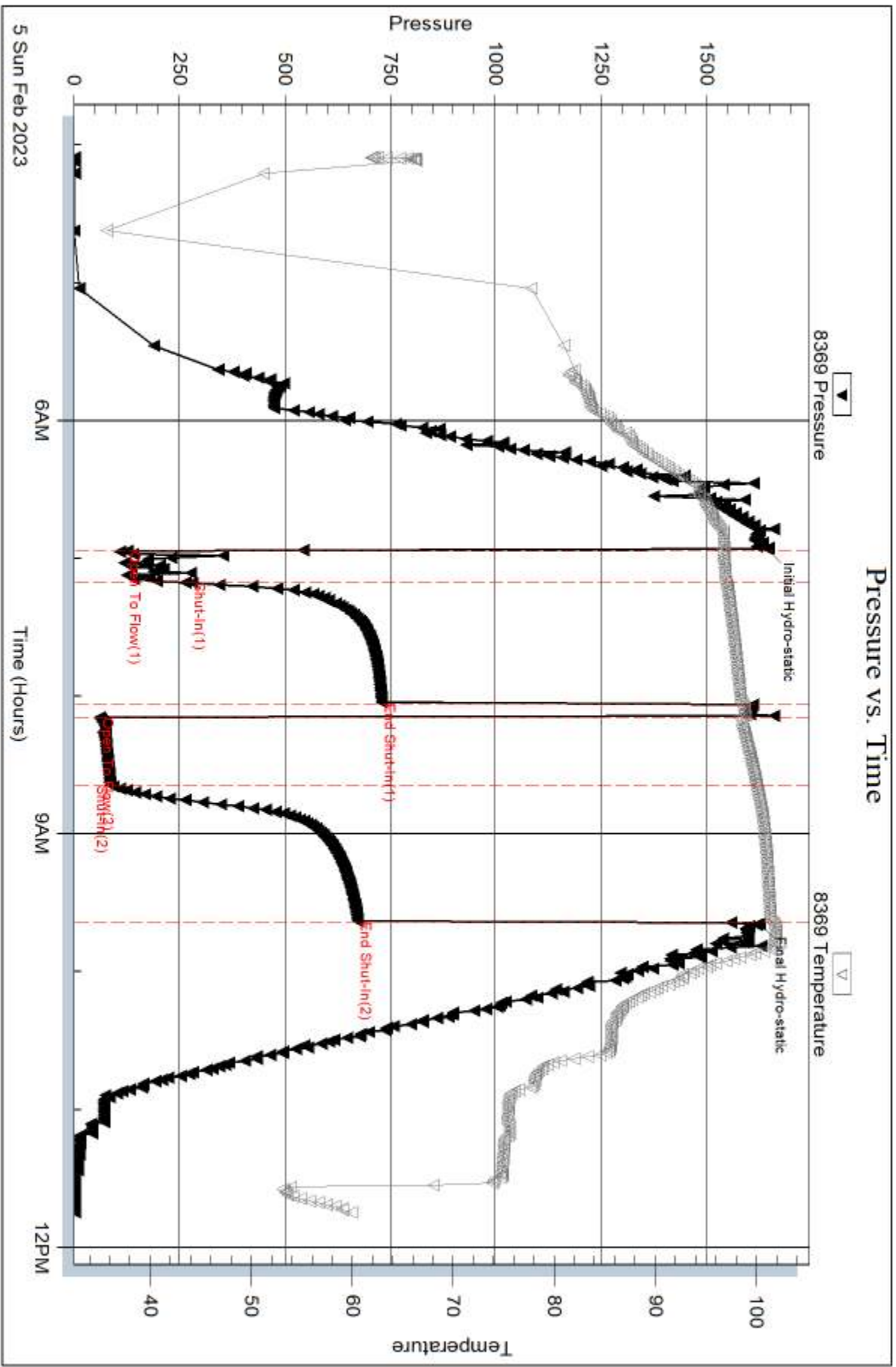
Num Gas Bombs: 0

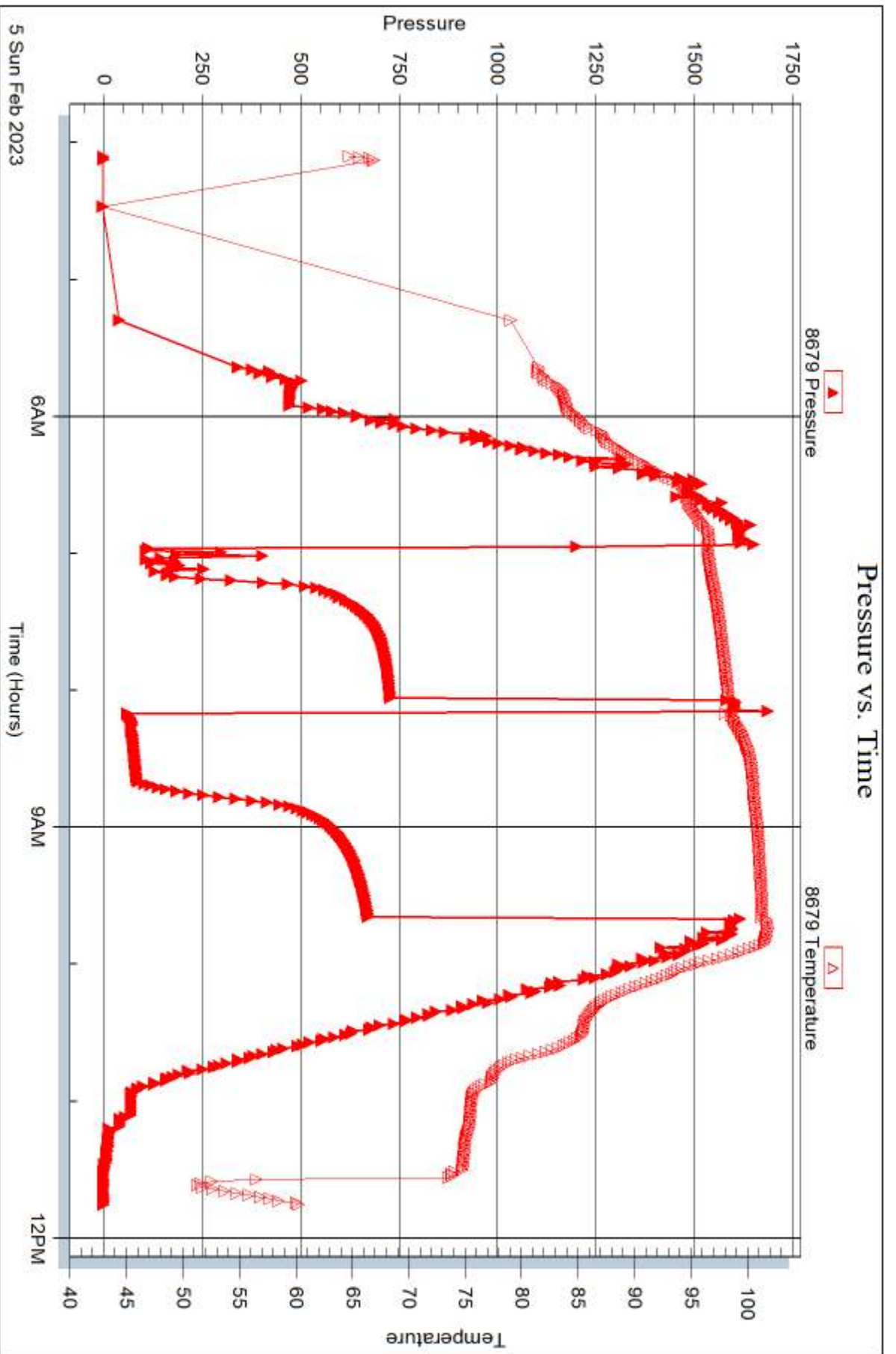
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Bird Dog Oil LLC.**

1801 Broadway Ste 200
Denver, CO 80202

ATTN: Jeff Lawler

Rutti Gates #2-5

5-22S-13W Stafford,KS

Start Date: 2023.02.06 @ 04:20:08

End Date: 2023.02.06 @ 11:34:28

Job Ticket #: 69341 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2023.02.13 @ 08:30:28



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Bird Dog Oil LLC.
 1801 Broadway Ste 200
 Denver, CO 80202
 ATTN: Jeff Lawler

5-22S-13W Stafford, KS

Rutti Gates #2-5

Job Ticket: 69341 **DST#: 2**
 Test Start: 2023.02.06 @ 04:20:08

GENERAL INFORMATION:

Formation: **LKC H-K**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:54:28
 Time Test Ended: 11:34:28
 Interval: **3510.00 ft (KB) To 3600.00 ft (KB) (TVD)**
 Total Depth: 3600.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Eric Burgess
 Unit No: 80
 Reference Elevations: 1910.00 ft (KB)
 1898.00 ft (CF)
 KB to GR/CF: 12.00 ft

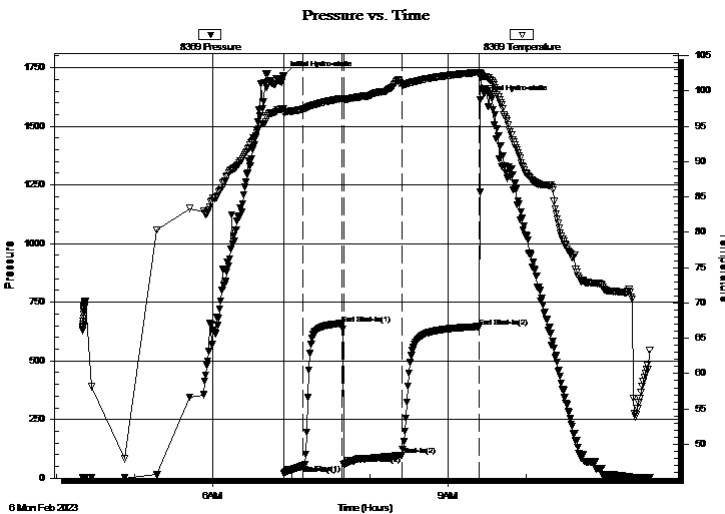
Serial #: 8369

Outside

Press@RunDepth: 97.44 psig @ 3516.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2023.02.06 End Date: 2023.02.06 Last Calib.: 1899.12.30
 Start Time: 04:20:09 End Time: 11:34:28 Time On Btm: 2023.02.06 @ 06:54:18
 Time Off Btm: 2023.02.06 @ 09:24:48

TEST COMMENT: IF:Fair Building Blow built 3.41" (15)
 IS:No Blow Back. (30)
 FF:Fair Building Blow built to 4.82" (45)
 FS:No Blow Back. (60)

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1714.14 | 97.48 | Initial Hydro-static |
| 1 | 21.76 | 96.88 | Open To Flow (1) |
| 15 | 52.84 | 97.43 | Shut-In(1) |
| 45 | 659.14 | 98.94 | End Shut-In(1) |
| 46 | 59.29 | 98.80 | Open To Flow (2) |
| 90 | 97.44 | 100.87 | Shut-In(2) |
| 150 | 646.05 | 102.62 | End Shut-In(2) |
| 151 | 1614.67 | 102.47 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 156.00 | OSM 100%M | 1.12 |
| | | |
| | | |
| | | |
| | | |

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Bird Dog Oil LLC.

5-22S-13W Stafford,KS

1801 Broadway Ste 200
Denver, CO 80202

Rutti Gates #2-5

ATTN: Jeff Lawler

Job Ticket: 69341

DST#: 2

Test Start: 2023.02.06 @ 04:20:08

GENERAL INFORMATION:

Formation: **LKC H-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:54:28

Time Test Ended: 11:34:28

Interval: 3510.00 ft (KB) To 3600.00 ft (KB) (TVD)

Total Depth: 3600.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)

Tester: Eric Burgess

Unit No: 80

Reference Elevations: 1910.00 ft (KB)

1898.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 8679

Press@RunDepth: psig @ ft (KB)

Start Date: 2023.02.06 End Date: 2023.02.06

Start Time: 04:20:20 End Time: 11:34:44

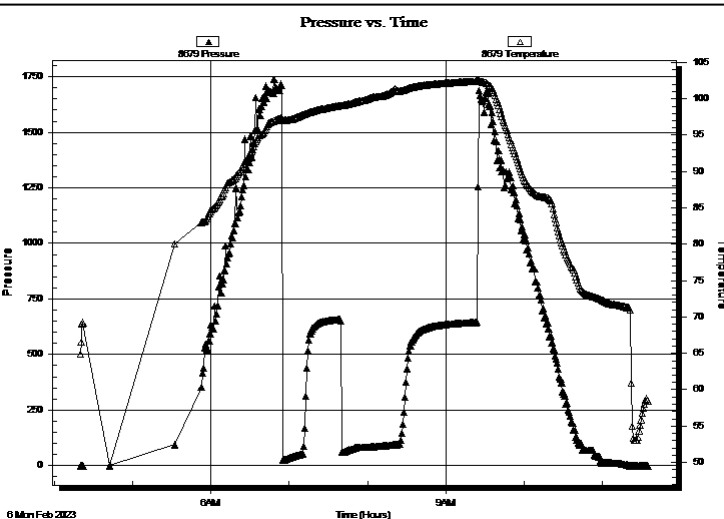
Capacity: 8000.00 psig

Last Calib.: 2023.02.06

Time On Btm:

Time Off Btm:

TEST COMMENT: IF:Fair Building Blow built 3.41" (15)
IS:No Blow Back. (30)
FF:Fair Building Blow built to 4.82" (45)
FS:No Blow Back. (60)



PRESSURE SUMMARY

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

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 156.00 | OSM 100%M | 1.12 |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bird Dog Oil LLC.

5-22S-13W Stafford,KS

1801 Broadway Ste 200
Denver, CO 80202

Rutti Gates #2-5

Job Ticket: 69341

DST#: 2

ATTN: Jeff Lawler

Test Start: 2023.02.06 @ 04:20:08

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3377.00 ft | Diameter: 3.88 inches | Volume: 49.39 bbl | Tool Weight: 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: inches | Volume: 0.00 bbl | Weight set on Packer: 24000.00 lb |
| Drill Collar: | Length: 120.00 ft | Diameter: 2.25 inches | Volume: 0.59 bbl | Weight to Pull Loose: 24000.00 lb |
| | | | <u>Total Volume: 49.98 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 13.00 ft | | | String Weight: Initial 64000.00 lb |
| Depth to Top Packer: | 3510.00 ft | | | Final 64000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 90.00 ft | | | |
| Tool Length: | 116.00 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 | | | 3485.00 | |
| Shut In Tool | 5.00 | | | 3490.00 | |
| Hydraulic tool | 5.00 | | | 3495.00 | |
| Em Tool | 3.00 | | | 3498.00 | |
| Safety Joint | 3.00 | | | 3501.00 | |
| Packer | 4.00 | | | 3505.00 | 26.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3510.00 | |
| Stubb | 1.00 | | | 3511.00 | |
| Perforations | 4.00 | | | 3515.00 | |
| Change Over Sub | 1.00 | | | 3516.00 | |
| Recorder | 0.00 | 8369 | Outside | 3516.00 | |
| Recorder | 0.00 | 8846 | Inside | 3516.00 | |
| Blank Spacing | 63.00 | | | 3579.00 | |
| Change Over Sub | 1.00 | | | 3580.00 | |
| Perforations | 17.00 | | | 3597.00 | |
| Bullnose | 3.00 | | | 3600.00 | 90.00 Bottom Packers & Anchor |
| Total Tool Length: | 116.00 | | | | |



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Bird Dog Oil LLC.

5-22S-13W Stafford,KS

1801 Broadway Ste 200
Denver, CO 80202

Rutti Gates #2-5

Job Ticket: 69341

DST#: 2

ATTN: Jeff Lawler

Test Start: 2023.02.06 @ 04:20:08

Mud and Cushion Information

| | | | | | |
|--------------|----------------------|-----------------------|------|-----------------|---------|
| Mud Type: | | Cushion Type: | | Oil API: | deg API |
| Mud Weight: | 9.00 lb/gal | Cushion Length: | ft | Water Salinity: | ppm |
| Viscosity: | 49.00 sec/qt | Cushion Volume: | bbbl | | |
| Water Loss: | 7.58 in ³ | Gas Cushion Type: | | | |
| Resistivity: | ohm.m | Gas Cushion Pressure: | psig | | |
| Salinity: | 5450.00 ppm | | | | |
| Filter Cake: | 0.20 inches | | | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| 156.00 | OSM 100%M | 1.117 |

Total Length: 156.00 ft Total Volume: 1.117 bbl

Num Fluid Samples: 0

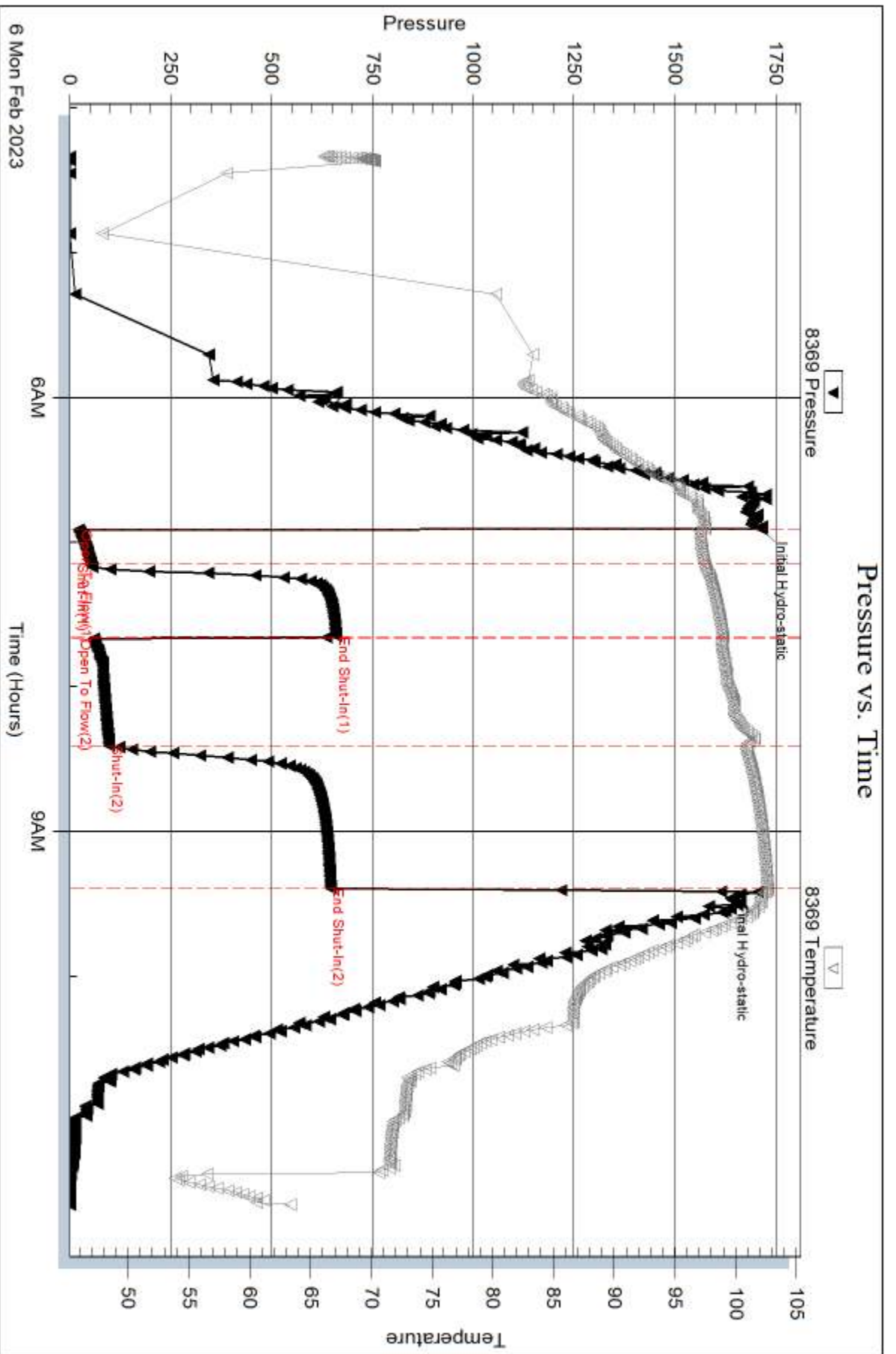
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

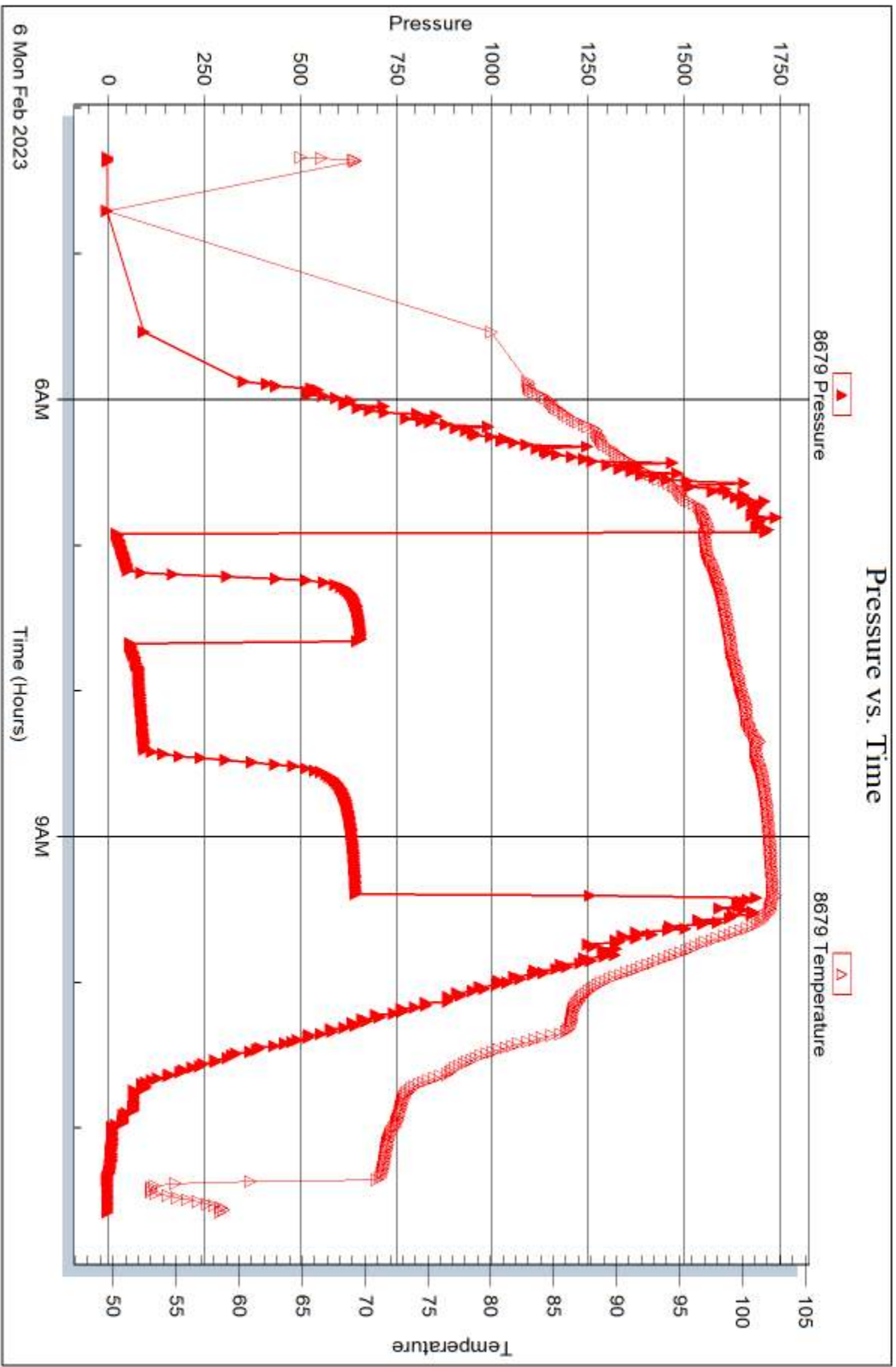


Serial #: 8679

Bird Dog Oil LLC.

Rutti Gates #2-5

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 69341

Printed: 2023.02.13 @ 08:30:28



DRILL STEM TEST REPORT

Prepared For: **Bird Dog Oil LLC.**

1801 Broadway Ste 200
Denver, CO 80202

ATTN: Jeff Lawler

Rutti Gates #2-5

5-22S-13W Stafford,KS

Start Date: 2023.02.07 @ 04:48:23

End Date: 2023.02.07 @ 11:55:53

Job Ticket #: 69342 DST #: 3

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

Printed: 2023.02.13 @ 08:29:56



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Bird Dog Oil LLC.
1801 Broadway Ste 200
Denver, CO 80202
ATTN: Jeff Lawler

5-22S-13W Stafford,KS

Rutti Gates #2-5

Job Ticket: 69342 **DST#: 3**
Test Start: 2023.02.07 @ 04:48:23

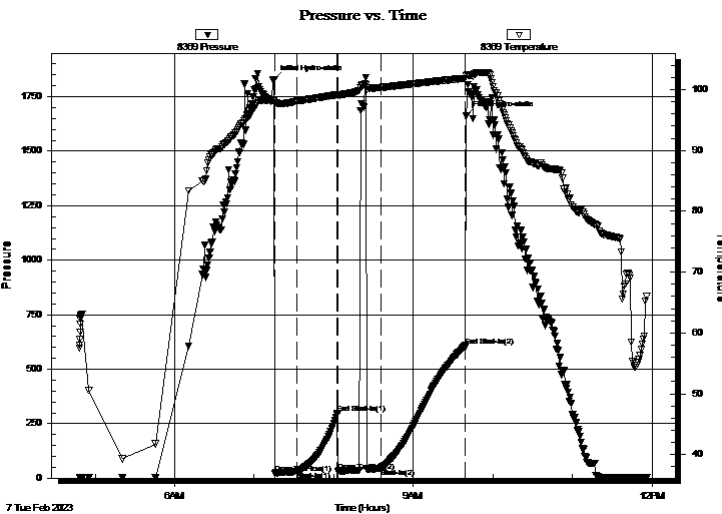
GENERAL INFORMATION:

Formation: **Viola**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:15:33
Time Test Ended: 11:55:53
Interval: **3658.00 ft (KB) To 3735.00 ft (KB) (TVD)**
Total Depth: 3735.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Eric Burgess
Unit No: 80
Reference Elevations: 1910.00 ft (KB)
1898.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8369 Outside

Press@RunDepth: 44.23 psig @ 3664.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2023.02.07 End Date: 2023.02.07 Last Calib.: 1899.12.30
Start Time: 04:48:24 End Time: 11:55:53 Time On Btm: 2023.02.07 @ 07:15:03
Time Off Btm: 2023.02.07 @ 09:40:03

TEST COMMENT: IF:Weak Building Blow built to 1.08" (15)
IS:No Blow Back. (30)
FF:No Blow until after flushing tool built to .37" (30) Tool Not Plugged.
FS:No Blow Back. (60)



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1828.62 | 98.24 | Initial Hydro-static |
| 1 | 22.50 | 97.71 | Open To Flow (1) |
| 18 | 29.97 | 98.10 | Shut-In(1) |
| 48 | 296.79 | 99.19 | End Shut-In(1) |
| 49 | 32.51 | 99.09 | Open To Flow (2) |
| 81 | 44.23 | 100.35 | Shut-In(2) |
| 144 | 608.12 | 101.86 | End Shut-In(2) |
| 145 | 1664.50 | 102.28 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 5.00 | Mud 100%M | 0.02 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bird Dog Oil LLC.

5-22S-13W Stafford,KS

1801 Broadway Ste 200
Denver, CO 80202

Rutti Gates #2-5

Job Ticket: 69342

DST#: 3

ATTN: Jeff Lawler

Test Start: 2023.02.07 @ 04:48:23

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3535.00 ft | Diameter: 3.88 inches | Volume: 51.70 bbl | Tool Weight: 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: inches | Volume: 0.00 bbl | Weight set on Packer: 24000.00 lb |
| Drill Collar: | Length: 120.00 ft | Diameter: 2.25 inches | Volume: 0.59 bbl | Weight to Pull Loose: 24000.00 lb |
| | | | <u>Total Volume: 52.29 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 23.00 ft | | | String Weight: Initial 68000.00 lb |
| Depth to Top Packer: | 3658.00 ft | | | Final 68000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 77.00 ft | | | |
| Tool Length: | 103.00 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 | | | 3633.00 | |
| Shut In Tool | 5.00 | | | 3638.00 | |
| Hydraulic tool | 5.00 | | | 3643.00 | |
| Em Tool | 3.00 | | | 3646.00 | |
| Safety Joint | 3.00 | | | 3649.00 | |
| Packer | 4.00 | | | 3653.00 | 26.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3658.00 | |
| Stubb | 1.00 | | | 3659.00 | |
| Perforations | 4.00 | | | 3663.00 | |
| Change Over Sub | 1.00 | | | 3664.00 | |
| Recorder | 0.00 | 8369 | Outside | 3664.00 | |
| Recorder | 0.00 | 8846 | Inside | 3664.00 | |
| Blank Spacing | 32.00 | | | 3696.00 | |
| Change Over Sub | 1.00 | | | 3697.00 | |
| Perforations | 35.00 | | | 3732.00 | |
| Bullnose | 3.00 | | | 3735.00 | 77.00 Bottom Packers & Anchor |
| Total Tool Length: | 103.00 | | | | |



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Bird Dog Oil LLC.

5-22S-13W Stafford,KS

1801 Broadway Ste 200
Denver, CO 80202

Rutti Gates #2-5

Job Ticket: 69342

DST#: 3

ATTN: Jeff Lawler

Test Start: 2023.02.07 @ 04:48:23

Mud and Cushion Information

| | | | | | |
|--------------|----------------------|-----------------------|------|-----------------|---------|
| Mud Type: | | Cushion Type: | | Oil API: | deg API |
| Mud Weight: | 9.00 lb/gal | Cushion Length: | ft | Water Salinity: | ppm |
| Viscosity: | 57.00 sec/qt | Cushion Volume: | bbbl | | |
| Water Loss: | 9.57 in ³ | Gas Cushion Type: | | | |
| Resistivity: | ohm.m | Gas Cushion Pressure: | psig | | |
| Salinity: | 5900.00 ppm | | | | |
| Filter Cake: | 0.20 inches | | | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| 5.00 | Mud 100%M | 0.025 |

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

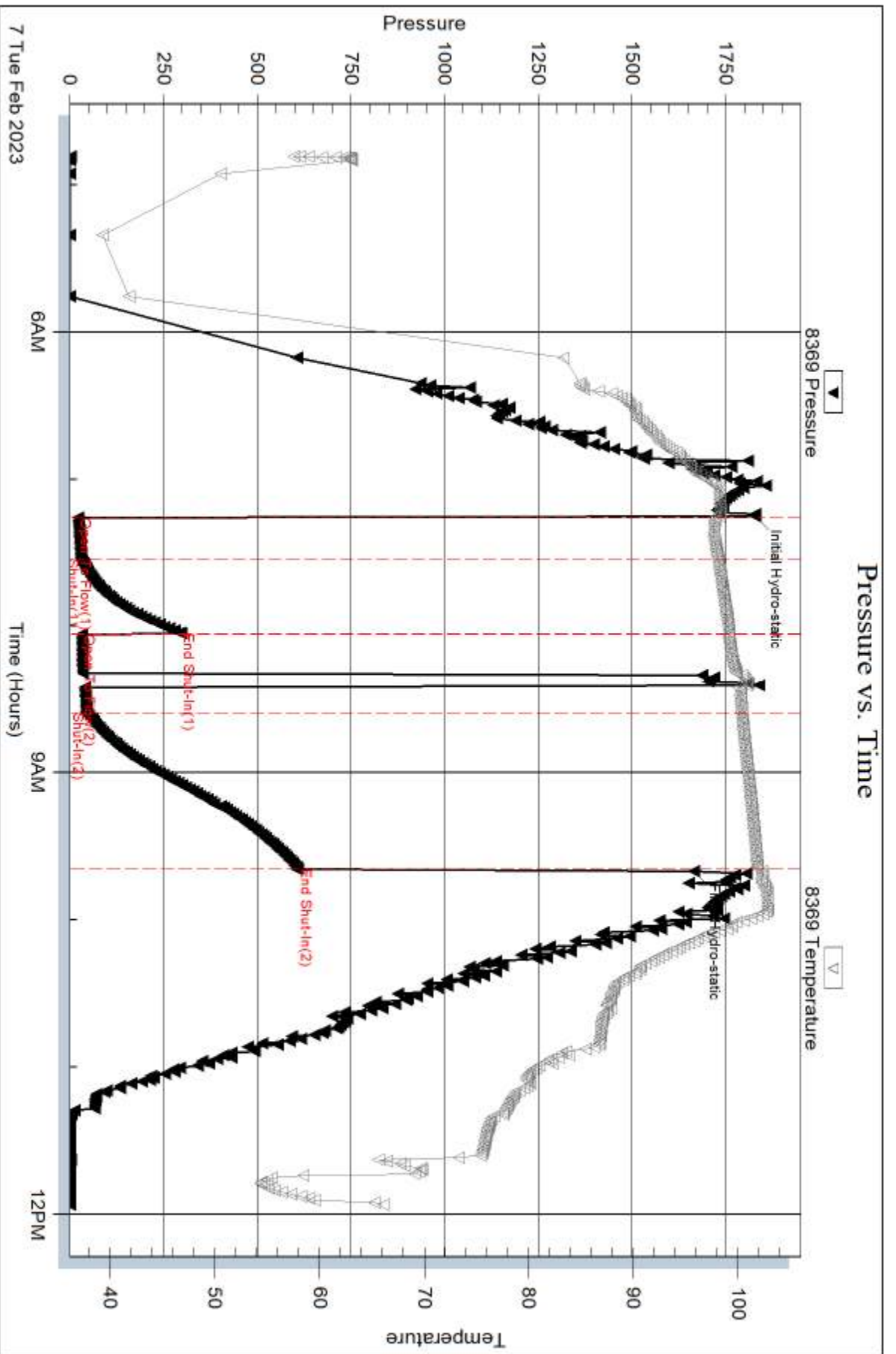
Num Gas Bombs: 0

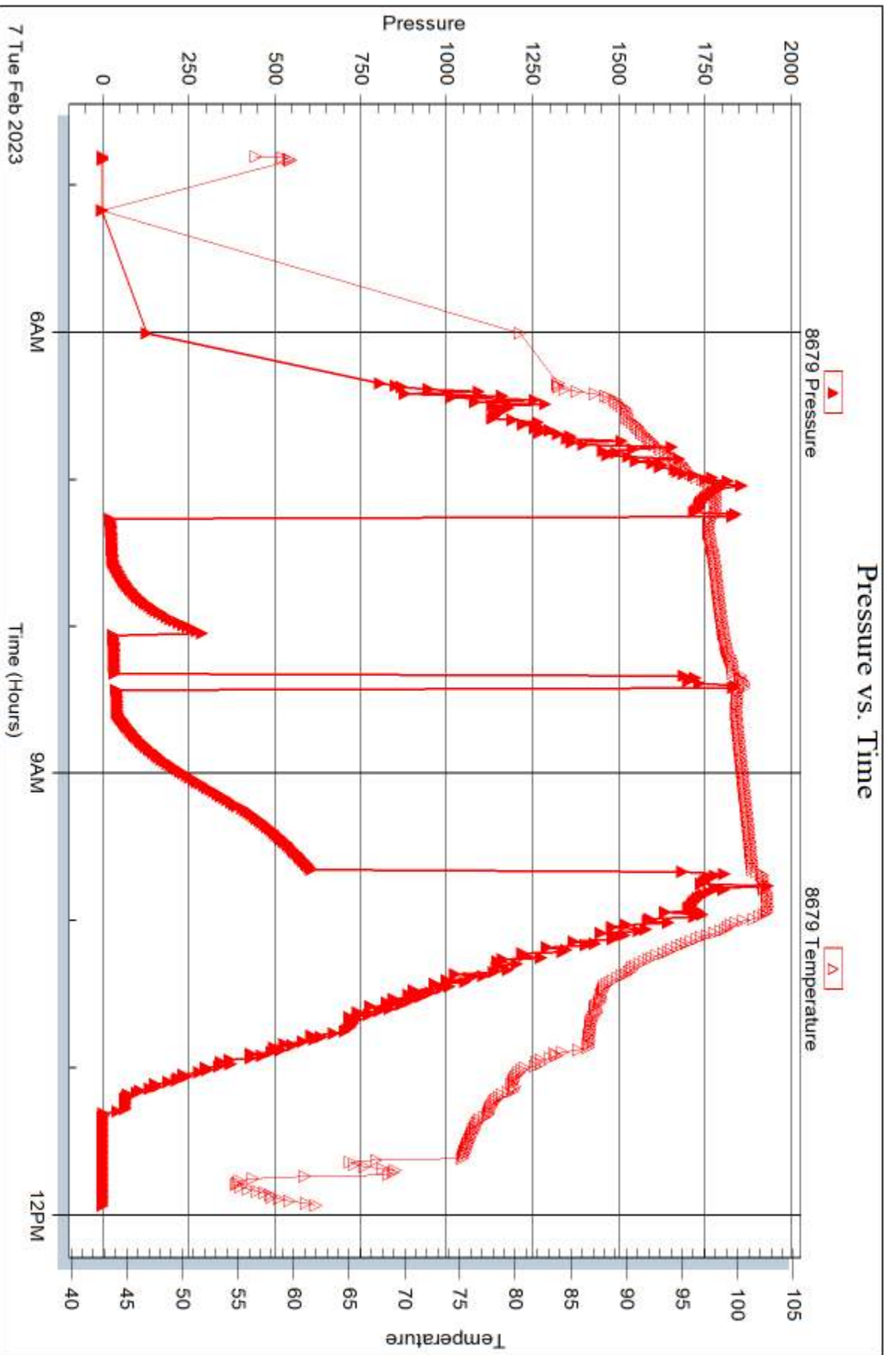
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Bird Dog Oil LLC.**

1801 Broadway Ste 200
Denver, CO 80202

ATTN: Jeff Lawler

Rutti Gates #2-5

5-22S-13W Stafford,KS

Start Date: 2023.02.05 @ 04:05:21

End Date:

Job Ticket #: 69343

DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2023.02.13 @ 08:29:26

Bird Dog Oil LLC.

5-22S-13W Stafford,KS

Rutti Gates #2-5

DST # 4

Simpson Sand-Arbuckl

2023.02.05



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Bird Dog Oil LLC.
1801 Broadway Ste 200
Denver, CO 80202
ATTN: Jeff Lawler

5-22S-13W Stafford,KS

Rutti Gates #2-5

Job Ticket: 69343 **DST#: 4**

Test Start: 2023.02.05 @ 04:05:21

GENERAL INFORMATION:

Formation: **Simpson Sand-Arbuckl**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended:

Test Type: Conventional Bottom Hole (Reset)

Tester: Eric Burgess

Unit No: 80

Interval: 3726.00 ft (KB) To 3790.00 ft (KB) (TVD)

Reference Elevations: 1910.00 ft (KB)

Total Depth: 3790.00 ft (KB) (TVD)

1898.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 8369 Outside

Press@RunDepth: psig @ 3732.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.02.08

End Date:

2023.02.08

Last Calib.:

1899.12.30

Start Time: 00:32:49

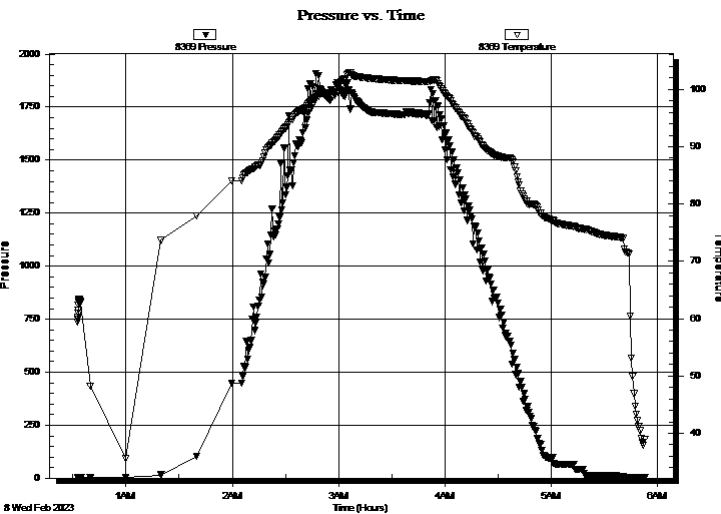
End Time:

05:52:58

Time On Btm:

Time Off Btm:

TEST COMMENT: IF:Packer Failure.



PRESSURE SUMMARY

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

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 750.00 | M 100%M | 9.80 |
| | | |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bird Dog Oil LLC.

5-22S-13W Stafford,KS

1801 Broadway Ste 200
Denver, CO 80202

Rutti Gates #2-5

Job Ticket: 69343

DST#: 4

ATTN: Jeff Lawler

Test Start: 2023.02.05 @ 04:05:21

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3598.00 ft | Diameter: 3.88 inches | Volume: 52.62 bbl | Tool Weight: 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: inches | Volume: 0.00 bbl | Weight set on Packer: 24000.00 lb |
| Drill Collar: | Length: 120.00 ft | Diameter: 2.25 inches | Volume: 0.59 bbl | Weight to Pull Loose: 24000.00 lb |
| | | | <u>Total Volume: 53.21 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 18.00 ft | | | String Weight: Initial 68000.00 lb |
| Depth to Top Packer: | 3726.00 ft | | | Final 68000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 64.00 ft | | | |
| Tool Length: | 90.00 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 | | | 3701.00 | |
| Shut In Tool | 5.00 | | | 3706.00 | |
| Hydraulic tool | 5.00 | | | 3711.00 | |
| Em Tool | 3.00 | | | 3714.00 | |
| Safety Joint | 3.00 | | | 3717.00 | |
| Packer | 4.00 | | | 3721.00 | 26.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3726.00 | |
| Stubb | 1.00 | | | 3727.00 | |
| Perforations | 4.00 | | | 3731.00 | |
| Change Over Sub | 1.00 | | | 3732.00 | |
| Recorder | 0.00 | 8369 | Outside | 3732.00 | |
| Recorder | 0.00 | 8846 | Inside | 3732.00 | |
| Blank Spacing | 32.00 | | | 3764.00 | |
| Change Over Sub | 1.00 | | | 3765.00 | |
| Perforations | 22.00 | | | 3787.00 | |
| Bullnose | 3.00 | | | 3790.00 | 64.00 Bottom Packers & Anchor |
| Total Tool Length: | 90.00 | | | | |



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Bird Dog Oil LLC.

5-22S-13W Stafford,KS

1801 Broadway Ste 200
Denver, CO 80202

Rutti Gates #2-5

Job Ticket: 69343

DST#: 4

ATTN: Jeff Lawler

Test Start: 2023.02.05 @ 04:05:21

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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| 750.00 | M 100%M | 9.803 |

Total Length: 750.00 ft Total Volume: 9.803 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

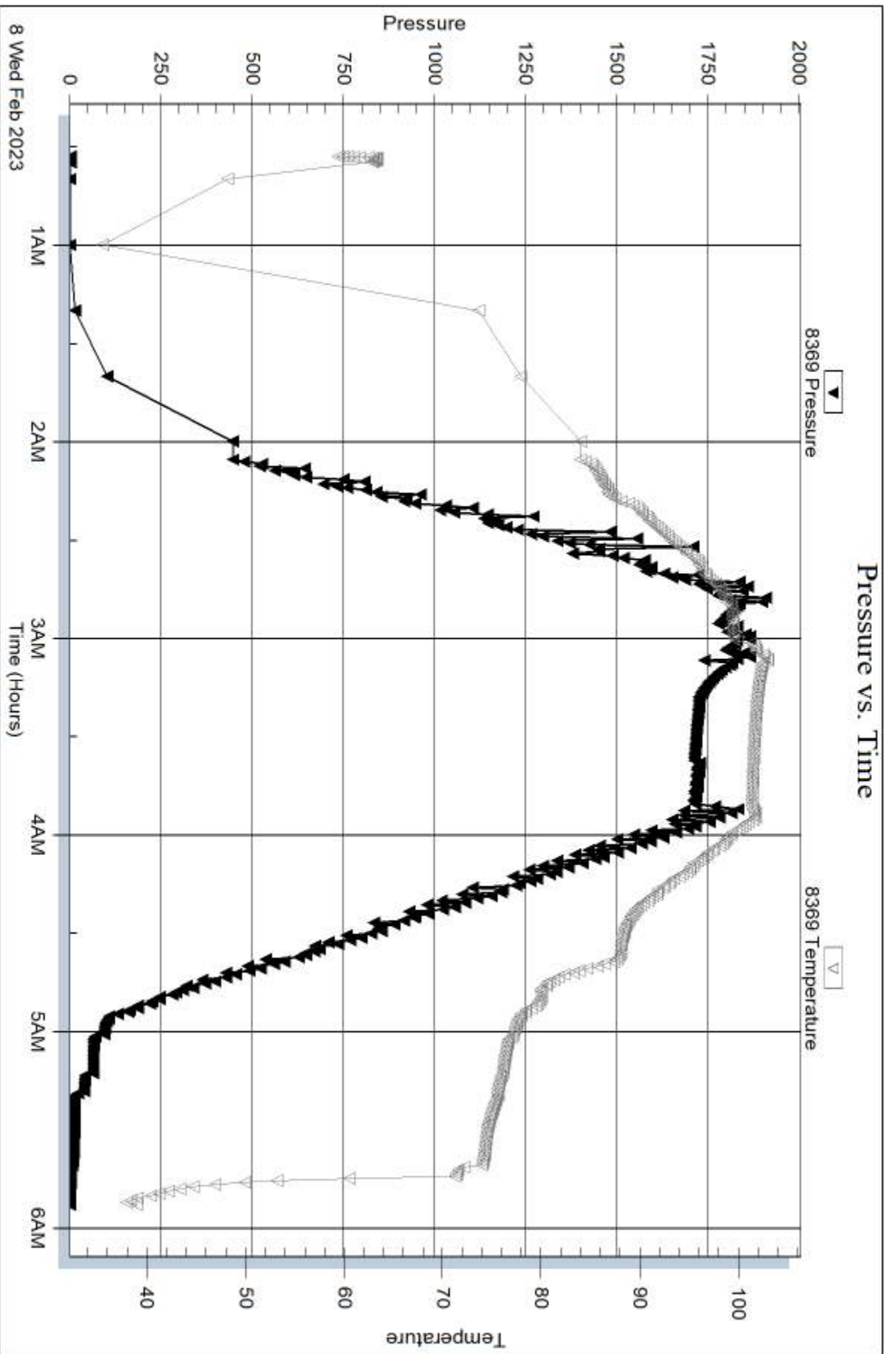
Recovery Comments:

Serial #: 8369

Outside Bird Dog Oil LLC.

Rutti Gates #2-5

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 69343

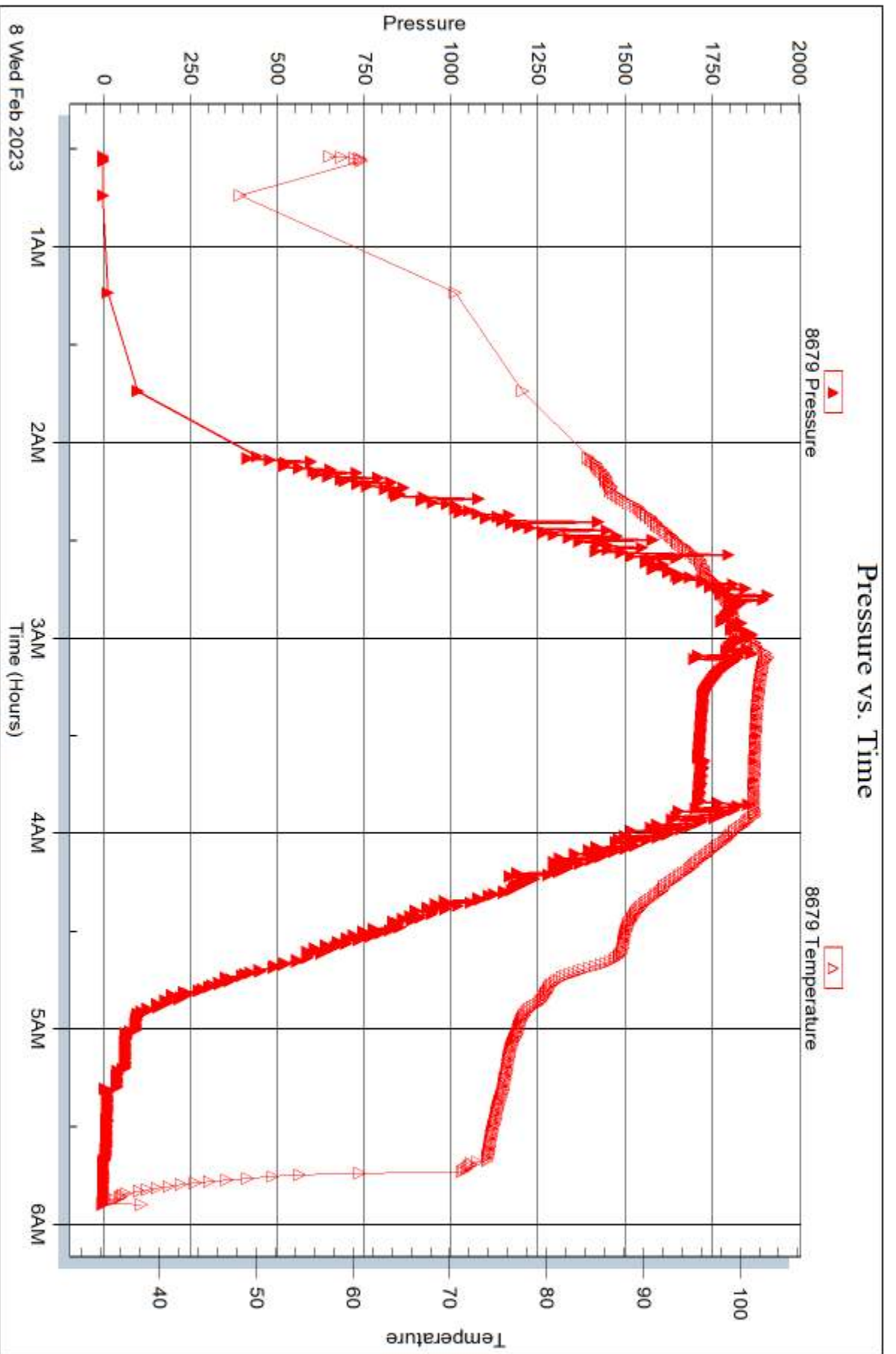
Printed: 2023.02.13 @ 08:29:26

Serial #: 8679

Bird Dog Oil LLC.

Rutti Gates #2-5

DST Test Number: 4



Trilobe Testing, Inc

Ref. No: 69343

Printed: 2023.02.13 @ 08:29:26



DRILL STEM TEST REPORT

Prepared For: **Bird Dog Oil LLC.**

1801 Broadway Ste 200
Denver, CO 80202

ATTN: Jeff Lawler

Rutti Gates #2-5

5-22S-13W Stafford,KS

Start Date: 2023.02.08 @ 07:39:23

End Date: 2023.02.08 @ 13:32:43

Job Ticket #: 69344 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2023.02.13 @ 08:28:27

Bird Dog Oil LLC.

5-22S-13W Stafford,KS

Rutti Gates #2-5

DST # 5

Simpson Sand-Arbuckl

2023.02.08



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Bird Dog Oil LLC.
1801 Broadway Ste 200
Denver, CO 80202
ATTN: Jeff Lawler

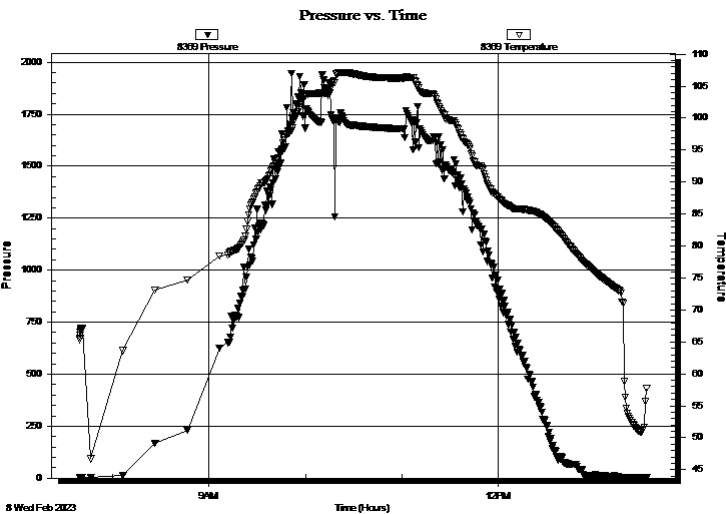
5-22S-13W Stafford,KS
Rutti Gates #2-5
Job Ticket: 69344 **DST#: 5**
Test Start: 2023.02.08 @ 07:39:23

GENERAL INFORMATION:

Formation: **Simpson Sand-Arbuckl**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: Tester: Eric Burgess
 Time Test Ended: 13:32:43 Unit No: 80
Interval: 3710.00 ft (KB) To 3790.00 ft (KB) (TVD) Reference Elevations: 1910.00 ft (KB)
 Total Depth: 3790.00 ft (KB) (TVD) 1898.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 12.00 ft

Serial #: 8369 Outside
 Press@RunDepth: psig @ 3716.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2023.02.08 End Date: 2023.02.08 Last Calib.: 1899.12.30
 Start Time: 07:39:24 End Time: 13:32:43 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF:Packer Failure.



PRESSURE SUMMARY

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

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 152.00 | Mud 100%M | 1.06 |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Bird Dog Oil LLC.
 1801 Broadway Ste 200
 Denver, CO 80202
 ATTN: Jeff Lawler

5-22S-13W Stafford,KS

Rutti Gates #2-5

Job Ticket: 69344 **DST#: 5**
 Test Start: 2023.02.08 @ 07:39:23

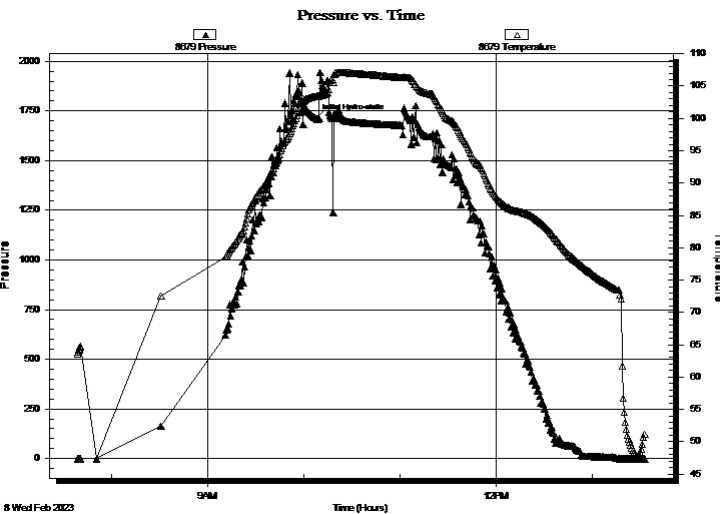
GENERAL INFORMATION:

Formation: **Simpson Sand-Arbuckl**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened:
 Time Test Ended: 13:32:43
 Interval: **3710.00 ft (KB) To 3790.00 ft (KB) (TVD)**
 Total Depth: 3790.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Eric Burgess
 Unit No: 80
 Reference Elevations: 1910.00 ft (KB)
 1898.00 ft (CF)
 KB to GR/CF: 12.00 ft

Serial #: 8679

Press@RunDepth: psig @ ft (KB) Capacity: 8000.00 psig
 Start Date: 2023.02.08 End Date: 2023.02.08 Last Calib.: 2023.02.08
 Start Time: 07:39:08 End Time: 13:32:43 Time On Btm: 2023.02.08 @ 10:07:43
 Time Off Btm:

TEST COMMENT: IF:Packer Failure.



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1711.81 | 103.42 | Initial Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 152.00 | Mud 100%M | 1.06 |
| | | |
| | | |
| | | |
| | | |

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bird Dog Oil LLC.

5-22S-13W Stafford,KS

1801 Broadway Ste 200
Denver, CO 80202

Rutti Gates #2-5

Job Ticket: 69344

DST#: 5

ATTN: Jeff Lawler

Test Start: 2023.02.08 @ 07:39:23

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3566.00 ft | Diameter: 3.88 inches | Volume: 52.15 bbl | Tool Weight: 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: inches | Volume: 0.00 bbl | Weight set on Packer: 24000.00 lb |
| Drill Collar: | Length: 120.00 ft | Diameter: 2.25 inches | Volume: 0.59 bbl | Weight to Pull Loose: 24000.00 lb |
| | | | <u>Total Volume: 52.74 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 2.00 ft | | | String Weight: Initial 68000.00 lb |
| Depth to Top Packer: | 3710.00 ft | | | Final 68000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 80.00 ft | | | |
| Tool Length: | 106.00 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 | | | 3685.00 | |
| Shut In Tool | 5.00 | | | 3690.00 | |
| Hydraulic tool | 5.00 | | | 3695.00 | |
| Em Tool | 3.00 | | | 3698.00 | |
| Safety Joint | 3.00 | | | 3701.00 | |
| Packer | 4.00 | | | 3705.00 | 26.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3710.00 | |
| Stubb | 1.00 | | | 3711.00 | |
| Perforations | 4.00 | | | 3715.00 | |
| Change Over Sub | 1.00 | | | 3716.00 | |
| Recorder | 0.00 | 8369 | Outside | 3716.00 | |
| Recorder | 0.00 | 8846 | Inside | 3716.00 | |
| Blank Spacing | 32.00 | | | 3748.00 | |
| Change Over Sub | 1.00 | | | 3749.00 | |
| Perforations | 38.00 | | | 3787.00 | |
| Bullnose | 3.00 | | | 3790.00 | 80.00 Bottom Packers & Anchor |
| Total Tool Length: | 106.00 | | | | |



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Bird Dog Oil LLC.

5-22S-13W Stafford,KS

1801 Broadway Ste 200
Denver, CO 80202

Rutti Gates #2-5

Job Ticket: 69344

DST#: 5

ATTN: Jeff Lawler

Test Start: 2023.02.08 @ 07:39:23

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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| 152.00 | Mud 100%M | 1.058 |

Total Length: 152.00 ft Total Volume: 1.058 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

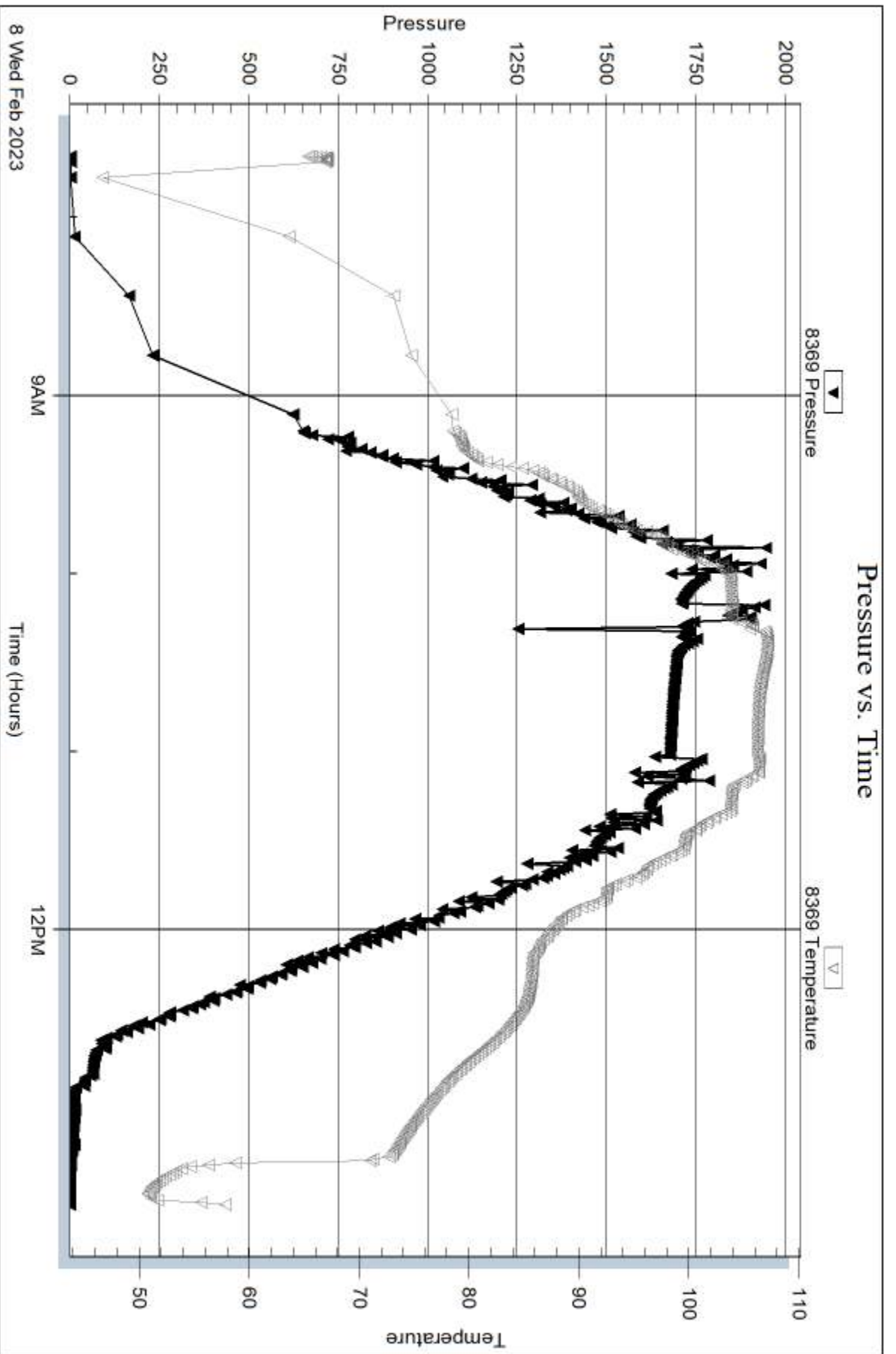
Recovery Comments:

Serial #: 8369

Outside Bird Dog Oil LLC.

Rutti Gates #2-5

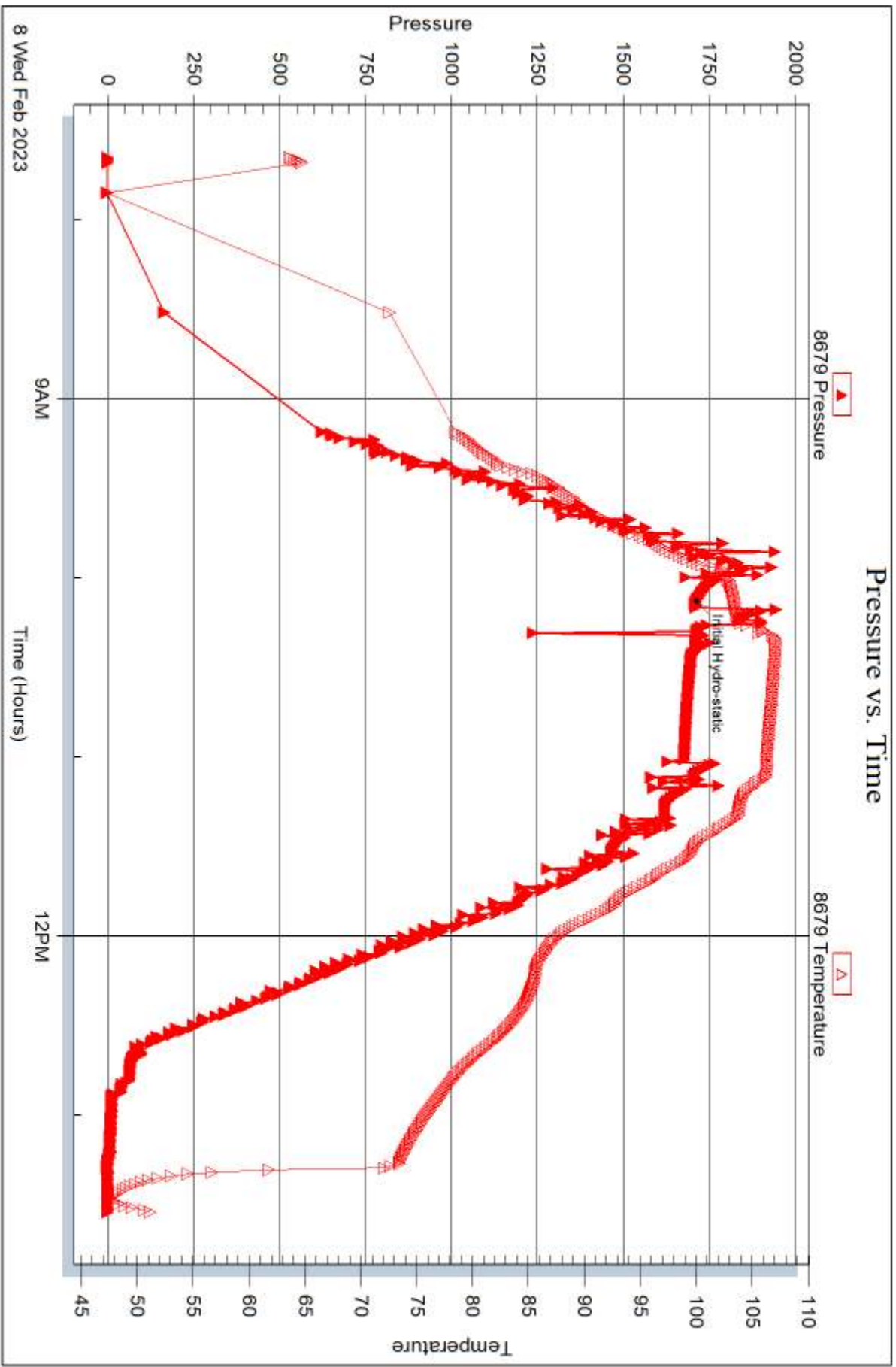
DST Test Number: 5



Trilobe Testing, Inc

Ref. No: 69344

Printed: 2023.02.13 @ 08:28:27





DRILL STEM TEST REPORT

Prepared For: **Bird Dog Oil LLC.**

1801 Broadway Ste 200
Denver, CO 80202

ATTN: Jeff Lawler

Rutti Gates #2-5

5-22S-13W Stafford,KS

Start Date: 2023.02.08 @ 20:33:23

End Date: 2023.02.09 @ 05:00:32

Job Ticket #: 69345 DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2023.02.13 @ 08:27:55

Bird Dog Oil LLC.

5-22S-13W Stafford,KS

Rutti Gates #2-5

DST # 6

Viola-Simpson Sand-A

2023.02.08



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Bird Dog Oil LLC.
 1801 Broadway Ste 200
 Denver, CO 80202
 ATTN: Jeff Lawler

5-22S-13W Stafford, KS

Rutti Gates #2-5

Job Ticket: 69345 **DST#: 6**
 Test Start: 2023.02.08 @ 20:33:23

GENERAL INFORMATION:

Formation: **Viola-Simpson Sand-A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:57:13

Time Test Ended: 05:00:32

Test Type: Conventional Bottom Hole (Reset)

Tester: Eric Burgess

Unit No: 80

Interval: 3658.00 ft (KB) To 3790.00 ft (KB) (TVD)

Reference Elevations: 1910.00 ft (KB)

Total Depth: 3790.00 ft (KB) (TVD)

1898.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 8369

Outside

Press@RunDepth: 948.41 psig @ 3661.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.02.08

End Date:

2023.02.09

Last Calib.:

2023.02.09

Start Time: 20:33:24

End Time:

05:00:33

Time On Btm:

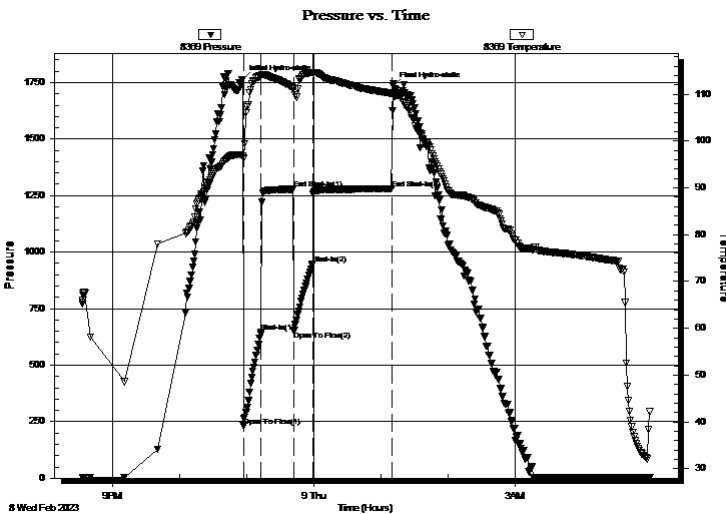
2023.02.08 @ 22:56:33

Time Off Btm:

2023.02.09 @ 01:11:03

TEST COMMENT: IF:Strong Building Blow built 173.07" (15)
 IS:No Blow Back. (30)
 FF:Strong Building Blow built 167.10" (15)
 FS:No Blow Back. (60)

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1764.04 | 96.77 | Initial Hydro-static |
| 1 | 231.36 | 96.26 | Open To Flow (1) |
| 17 | 645.89 | 114.02 | Shut-In(1) |
| 46 | 1278.27 | 111.42 | End Shut-In(1) |
| 46 | 648.51 | 111.19 | Open To Flow (2) |
| 63 | 948.41 | 114.59 | Shut-In(2) |
| 134 | 1279.09 | 110.19 | End Shut-In(2) |
| 135 | 1733.88 | 109.78 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|----------------|--------------|
| 1008.00 | W 100%W | 13.58 |
| 250.50 | MCW 95%W 5%M | 3.66 |
| 250.50 | MCW 80%W 20%M | 3.66 |
| 250.50 | MCW 70%W 30%M | 3.66 |
| 250.50 | WCM 50%>W 50%M | 3.66 |

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Bird Dog Oil LLC.
1801 Broadway Ste 200
Denver, CO 80202
ATTN: Jeff Lawler

5-22S-13W Stafford, KS

Rutti Gates #2-5

Job Ticket: 69345

DST#: 6

Test Start: 2023.02.08 @ 20:33:23

GENERAL INFORMATION:

Formation: **Viola-Simpson Sand-A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:57:13

Time Test Ended: 05:00:32

Interval: 3658.00 ft (KB) To 3790.00 ft (KB) (TVD)

Total Depth: 3790.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)

Tester: Eric Burgess

Unit No: 80

Reference Elevations: 1910.00 ft (KB)

1898.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 8679

Press@RunDepth: psig @ ft (KB)

Start Date: 2023.02.08

End Date:

2023.02.09

Start Time: 20:33:43

End Time:

05:01:07

Capacity: 8000.00 psig

Last Calib.:

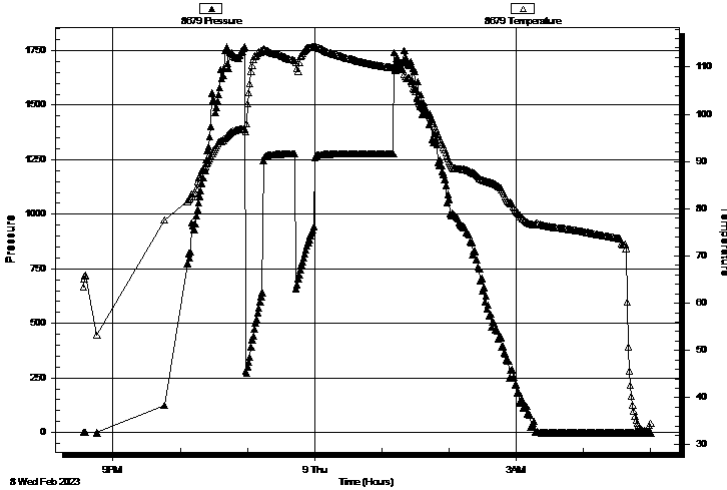
2023.02.09

Time On Btm:

Time Off Btm:

TEST COMMENT: IF:Strong Building Blow built 173.07" (15)
IS:No Blow Back. (30)
FF:Strong Building Blow built 167.10" (15)
FS:No Blow Back. (60)

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|----------------|--------------|
| 1008.00 | W 100%W | 13.58 |
| 250.50 | MCW 95%W 5%M | 3.66 |
| 250.50 | MCW 80%W 20%M | 3.66 |
| 250.50 | MCW 70%W 30%M | 3.66 |
| 250.50 | WCM 50%>W 50%M | 3.66 |

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bird Dog Oil LLC.

5-22S-13W Stafford,KS

1801 Broadway Ste 200
Denver, CO 80202

Rutti Gates #2-5

Job Ticket: 69345

DST#: 6

ATTN: Jeff Lawler

Test Start: 2023.02.08 @ 20:33:23

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3535.00 ft | Diameter: 3.88 inches | Volume: 51.70 bbl | Tool Weight: 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: inches | Volume: 0.00 bbl | Weight set on Packer: 24000.00 lb |
| Drill Collar: | Length: 120.00 ft | Diameter: 2.25 inches | Volume: 0.59 bbl | Weight to Pull Loose: 24000.00 lb |
| | | | <u>Total Volume: 52.29 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 24.00 ft | | | String Weight: Initial 69000.00 lb |
| Depth to Top Packer: | 3658.00 ft | | | Final 77000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 132.00 ft | | | |
| Tool Length: | 159.00 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 | | | 3632.00 | |
| Shut In Tool | 5.00 | | | 3637.00 | |
| Hydraulic tool | 5.00 | | | 3642.00 | |
| Em Tool | 3.00 | | | 3645.00 | |
| Safety Joint | 3.00 | | | 3648.00 | |
| Packer | 4.00 | | | 3652.00 | 27.00 Bottom Of Top Packer |
| Packer | 6.00 | | | 3658.00 | |
| Stubb | 1.00 | | | 3659.00 | |
| Perforations | 1.00 | | | 3660.00 | |
| Change Over Sub | 1.00 | | | 3661.00 | |
| Recorder | 0.00 | 8369 | Outside | 3661.00 | |
| Recorder | 0.00 | 8846 | Inside | 3661.00 | |
| Blank Spacing | 95.00 | | | 3756.00 | |
| Change Over Sub | 1.00 | | | 3757.00 | |
| Perforations | 30.00 | | | 3787.00 | |
| Bullnose | 3.00 | | | 3790.00 | 132.00 Bottom Packers & Anchor |
| Total Tool Length: | 159.00 | | | | |



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Bird Dog Oil LLC.

5-22S-13W Stafford,KS

1801 Broadway Ste 200
Denver, CO 80202

Rutti Gates #2-5

Job Ticket: 69345

DST#: 6

ATTN: Jeff Lawler

Test Start: 2023.02.08 @ 20:33:23

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:

24000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6500.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbbl |
|--------------|----------------|----------------|
| 1008.00 | W 100%W | 13.576 |
| 250.50 | MCW 95%W 5%M | 3.663 |
| 250.50 | MCW 80%W 20%M | 3.663 |
| 250.50 | MCW 70%W 30%M | 3.663 |
| 250.50 | WCM 50%>W 50%M | 3.663 |

Total Length: 2010.00 ft

Total Volume: 28.228 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

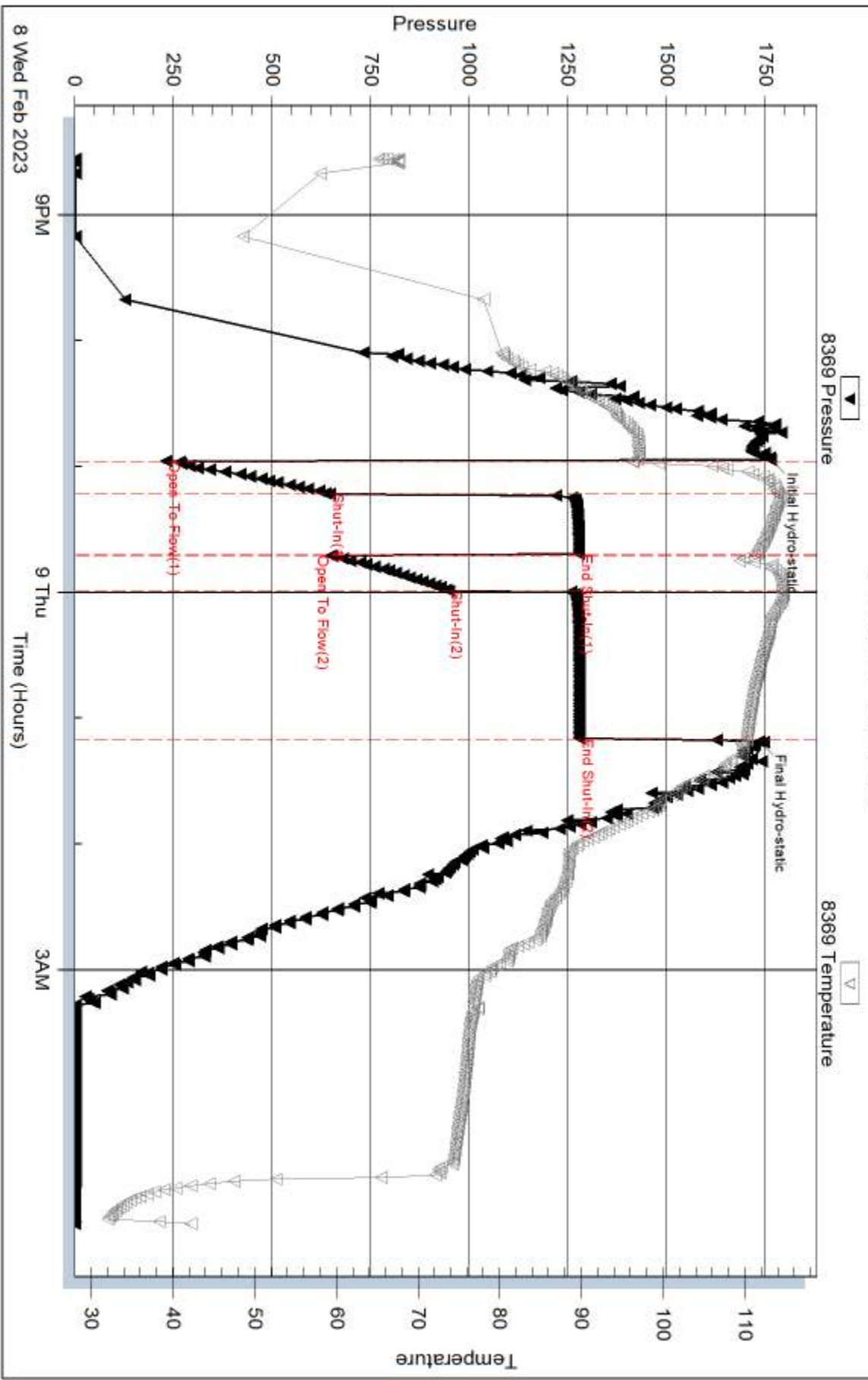
Serial #: 8369

Outside Bird Dog Oil LLC.

Rutti Gates #2-5

DST Test Number: 6

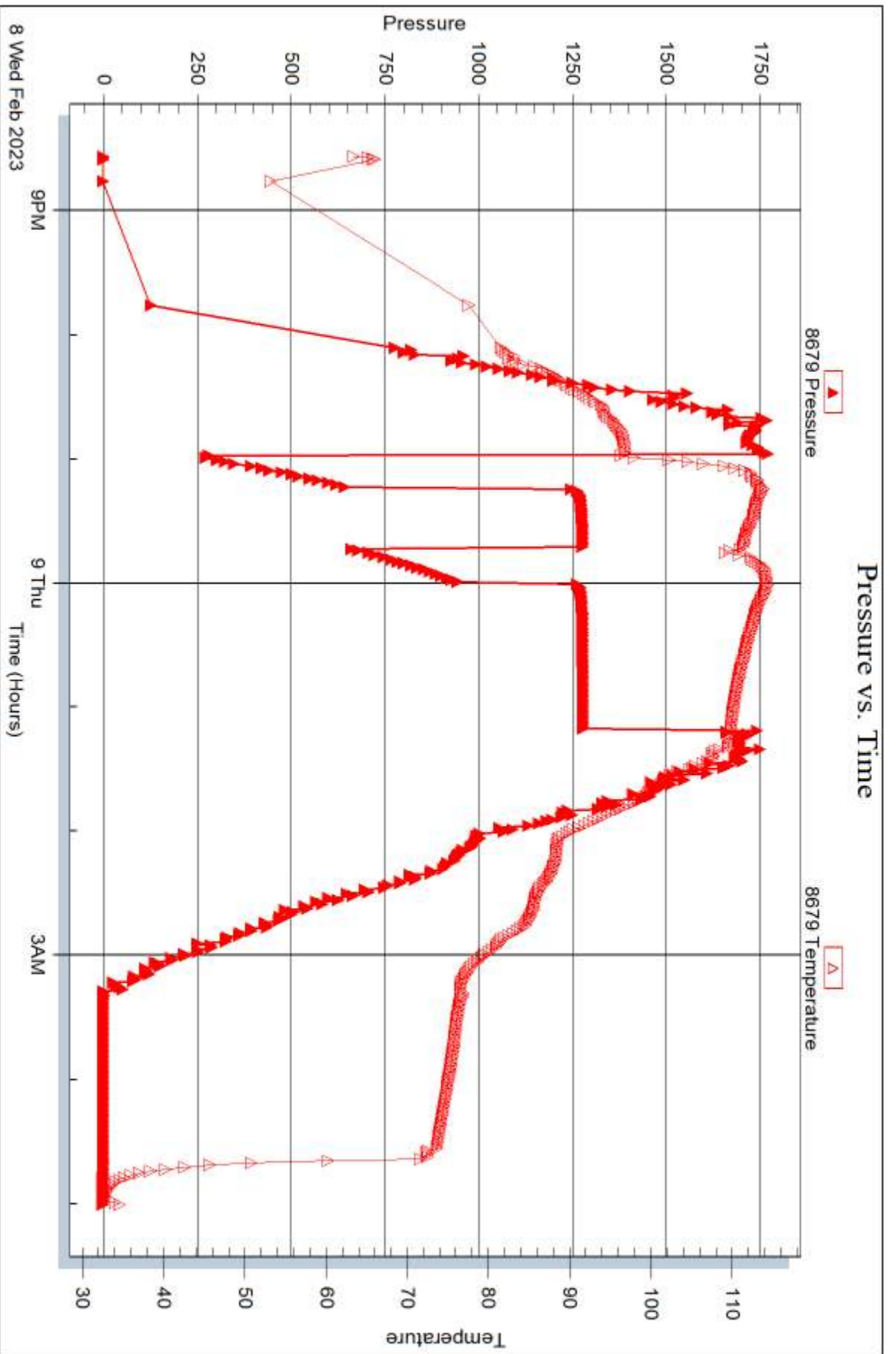
Pressure vs. Time



Tribble Testing, Inc

Ref. No: 69345

Printed: 2023.02.13 @ 08:27:55





DRILL STEM TEST REPORT

Prepared For: **Bird Dog Oil LLC.**

1801 Broadway Ste 200
Denver, CO 80202

ATTN: Jeff Lawler

Rutti Gates #2-5

5-22S-13W Stafford,KS

Start Date: 2023.02.09 @ 21:16:58

End Date: 2023.02.10 @ 06:45:38

Job Ticket #: 69346 DST #: 7

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

Printed: 2023.02.13 @ 08:27:21

Bird Dog Oil LLC.

5-22S-13W Stafford,KS

Rutti Gates #2-5

DST # 7

Simpson Sand-Arbuckl

2023.02.09



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Bird Dog Oil LLC.
 1801 Broadway Ste 200
 Denver, CO 80202
 ATTN: Jeff Lawler

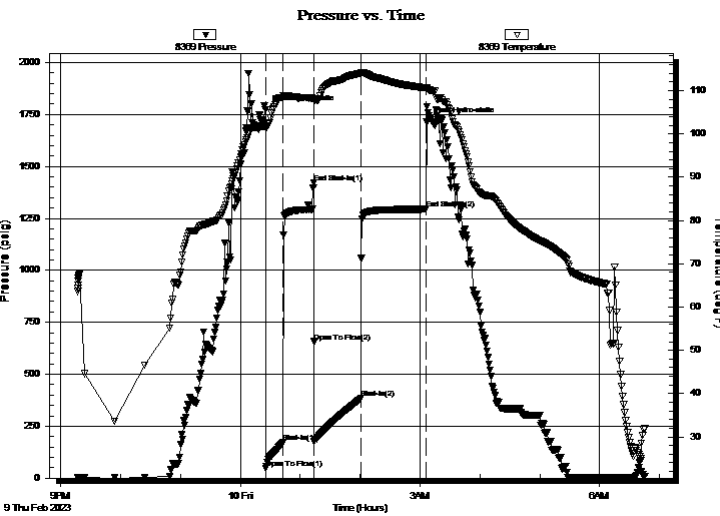
5-22S-13W Stafford, KS
Rutti Gates #2-5
 Job Ticket: 69346 **DST#: 7**
 Test Start: 2023.02.09 @ 21:16:58

GENERAL INFORMATION:

Formation: **Simpson Sand-Arbuckl**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Straddle (Reset)
 Time Tool Opened: 00:25:38 Tester: Eric Burgess
 Time Test Ended: 06:45:38 Unit No: 80
Interval: 3690.00 ft (KB) To 3779.00 ft (KB) (TVD) Reference Elevations: 1910.00 ft (KB)
 Total Depth: 3868.00 ft (KB) (TVD) 1898.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 12.00 ft

Serial #: 8369 Outside
 Press@RunDepth: 383.25 psig @ 3696.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2023.02.09 End Date: 2023.02.10 Last Calib.: 2023.02.10
 Start Time: 21:16:59 End Time: 06:45:38 Time On Btm: 2023.02.10 @ 00:25:08
 Time Off Btm: 2023.02.10 @ 03:06:38

TEST COMMENT: IF: Strong Building Blow built to 22.42" (15)
 IS: No Blow Back. (30)
 FF: Strong Building Blow built 42.37" (45)
 FS: No Blow Back. (60)



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1774.01 | 101.87 | Initial Hydro-static |
| 1 | 46.02 | 101.45 | Open To Flow (1) |
| 18 | 170.76 | 108.45 | Shut-In(1) |
| 49 | 1419.83 | 108.19 | End Shut-In(1) |
| 49 | 656.66 | 107.79 | Open To Flow (2) |
| 96 | 383.25 | 113.99 | Shut-In(2) |
| 161 | 1294.48 | 110.61 | End Shut-In(2) |
| 162 | 1713.53 | 110.70 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------------------------|--------------|
| 63.00 | OSM 100%M | 0.31 |
| 126.00 | GVSOWCM 5%G 5%O 30%W 60%M | 1.29 |
| 63.00 | GVSOWCM 2.5%G 2.5%O 45%W 50%M | 0.92 |
| 63.00 | GOSWCM 5%G 70%W 25%M | 0.92 |
| 561.00 | W 100%W | 8.20 |

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Bird Dog Oil LLC.
1801 Broadway Ste 200
Denver, CO 80202
ATTN: Jeff Lawler

5-22S-13W Stafford, KS

Rutti Gates #2-5

Job Ticket: 69346 **DST#: 7**
Test Start: 2023.02.09 @ 21:16:58

GENERAL INFORMATION:

Formation: **Simpson Sand-Arbuckl**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:25:38

Time Test Ended: 06:45:38

Test Type: Conventional Straddle (Reset)

Tester: Eric Burgess

Unit No: 80

Interval: 3690.00 ft (KB) To 3779.00 ft (KB) (TVD)

Reference Elevations: 1910.00 ft (KB)

Total Depth: 3868.00 ft (KB) (TVD)

1898.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 8679

Inside

Press@RunDepth: psig @ 3696.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.02.09

End Date:

2023.02.10

Last Calib.:

1899.12.30

Start Time: 21:17:01

End Time:

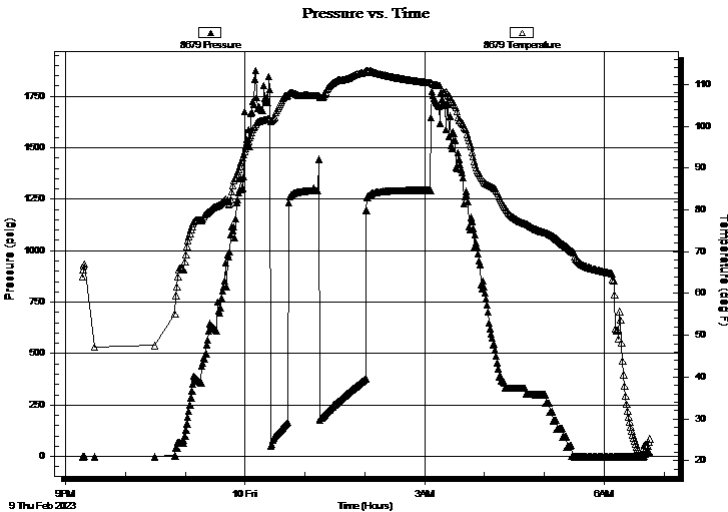
06:45:56

Time On Btm:

Time Off Btm:

TEST COMMENT: IF:Strong Building Blow built to 22.42" (15)
IS:No Blow Back. (30)
FF:Strong Building Blow built 42.37" (45)
FS:No Blow Back. (60)

PRESSURE SUMMARY



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

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------------------------|--------------|
| 63.00 | OSM 100%M | 0.31 |
| 126.00 | GVSOWCM 5%G 5%O 30%W 60%M | 1.29 |
| 63.00 | GVSOWCM 2.5%G 2.5%O 45%W 50%M | 0.92 |
| 63.00 | GOSWCM 5%G 70%W 25%M | 0.92 |
| 561.00 | W 100%W | 8.20 |

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Bird Dog Oil LLC.
 1801 Broadway Ste 200
 Denver, CO 80202
 ATTN: Jeff Lawler

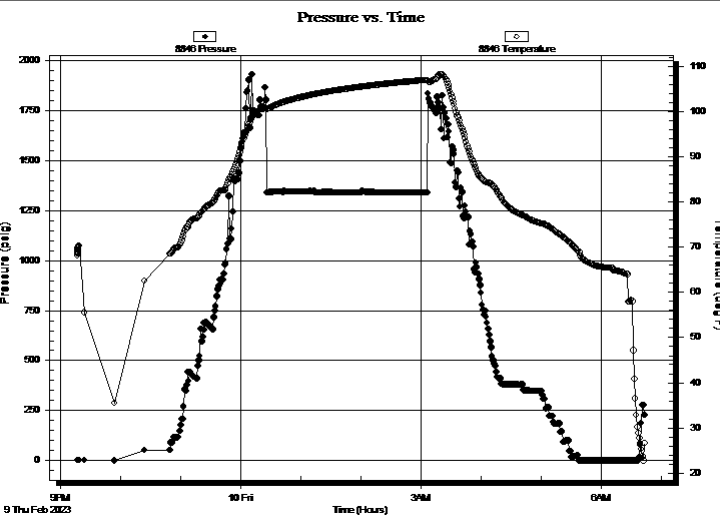
5-22S-13W Stafford,KS
Rutti Gates #2-5
 Job Ticket: 69346 **DST#: 7**
 Test Start: 2023.02.09 @ 21:16:58

GENERAL INFORMATION:

Formation: **Simpson Sand-Arbuckl**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Straddle (Reset)
 Time Tool Opened: 00:25:38 Tester: Eric Burgess
 Time Test Ended: 06:45:38 Unit No: 80
Interval: 3690.00 ft (KB) To 3779.00 ft (KB) (TVD) Reference Elevations: 1910.00 ft (KB)
 Total Depth: 3868.00 ft (KB) (TVD) 1898.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 12.00 ft

Serial #: 8846 Below (Straddle)
 Press@RunDepth: psig @ 3800.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2023.02.09 End Date: 2023.02.10 Last Calib.: 2023.02.10
 Start Time: 21:16:57 End Time: 06:43:36 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF:Strong Building Blow built to 22.42" (15)
 IS:No Blow Back. (30)
 FF:Strong Building Blow built 42.37" (45)
 FS:No Blow Back. (60)



PRESSURE SUMMARY

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

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------------------------|--------------|
| 63.00 | OSM 100%M | 0.31 |
| 126.00 | GVSOWCM 5%G 5%O 30%W 60%M | 1.29 |
| 63.00 | GVSOWCM 2.5%G 2.5%O 45%W 50%M | 0.92 |
| 63.00 | GOSWCM 5%G 70%W 25%M | 0.92 |
| 561.00 | W 100%W | 8.20 |

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bird Dog Oil LLC.

5-22S-13W Stafford,KS

1801 Broadway Ste 200
Denver, CO 80202

Rutti Gates #2-5

Job Ticket: 69346

DST#: 7

ATTN: Jeff Lawler

Test Start: 2023.02.09 @ 21:16:58

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3566.00 ft | Diameter: 3.88 inches | Volume: 52.15 bbl | Tool Weight: 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: inches | Volume: 0.00 bbl | Weight set on Packer: 24000.00 lb |
| Drill Collar: | Length: 120.00 ft | Diameter: 2.25 inches | Volume: 0.59 bbl | Weight to Pull Loose: 24000.00 lb |
| | | | <u>Total Volume: 52.74 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 22.00 ft | | | String Weight: Initial 69000.00 lb |
| Depth to Top Packer: | 3690.00 ft | | | Final 73000.00 lb |
| Depth to Bottom Packer: | 3867.00 ft | | | |
| Interval between Packers: | 177.00 ft | | | |
| Tool Length: | 203.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

| | | | | | |
|---------------------------|---------------|------|---------|---------|--------------------------------|
| Change Over Sub | 1.00 | | | 3665.00 | |
| Shut In Tool | 5.00 | | | 3670.00 | |
| Hydraulic tool | 5.00 | | | 3675.00 | |
| Em Tool | 3.00 | | | 3678.00 | |
| Safety Joint | 3.00 | | | 3681.00 | |
| Packer | 4.00 | | | 3685.00 | 26.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3690.00 | |
| Stubb | 1.00 | | | 3691.00 | |
| Perforations | 4.00 | | | 3695.00 | |
| Change Over Sub | 1.00 | | | 3696.00 | |
| Recorder | 0.00 | 8369 | Outside | 3696.00 | |
| Recorder | 0.00 | 8679 | Inside | 3696.00 | |
| Blank Spacing | 63.00 | | | 3759.00 | |
| Change Over Sub | 1.00 | | | 3760.00 | |
| Perforations | 15.00 | | | 3775.00 | |
| Blank Off Sub | 1.00 | | | 3776.00 | |
| Packer - Shale | 5.00 | | | 3781.00 | |
| Stubb | 1.00 | | | 3782.00 | |
| Perforations | 18.00 | | | 3800.00 | |
| Recorder | 0.00 | 8846 | Below | 3800.00 | |
| Blank Spacing | 63.00 | | | 3863.00 | |
| Change Over Sub | 1.00 | | | 3864.00 | |
| Bullnose | 3.00 | | | 3867.00 | 177.00 Bottom Packers & Anchor |
| Total Tool Length: | 203.00 | | | | |



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Bird Dog Oil LLC.

5-22S-13W Stafford,KS

1801 Broadway Ste 200
Denver, CO 80202

Rutti Gates #2-5

Job Ticket: 69346

DST#: 7

ATTN: Jeff Lawler

Test Start: 2023.02.09 @ 21:16:58

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:

22000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7500.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbbl |
|--------------|-------------------------------|----------------|
| 63.00 | OSM 100%M | 0.310 |
| 126.00 | GVSOWCM 5%G 5%O 30%W 60%M | 1.289 |
| 63.00 | GVSOWCM 2.5%G 2.5%O 45%W 50%M | 0.921 |
| 63.00 | GOSWCM 5%G 70%W 25%M | 0.921 |
| 561.00 | W 100%W | 8.204 |

Total Length: 876.00 ft

Total Volume: 11.645 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

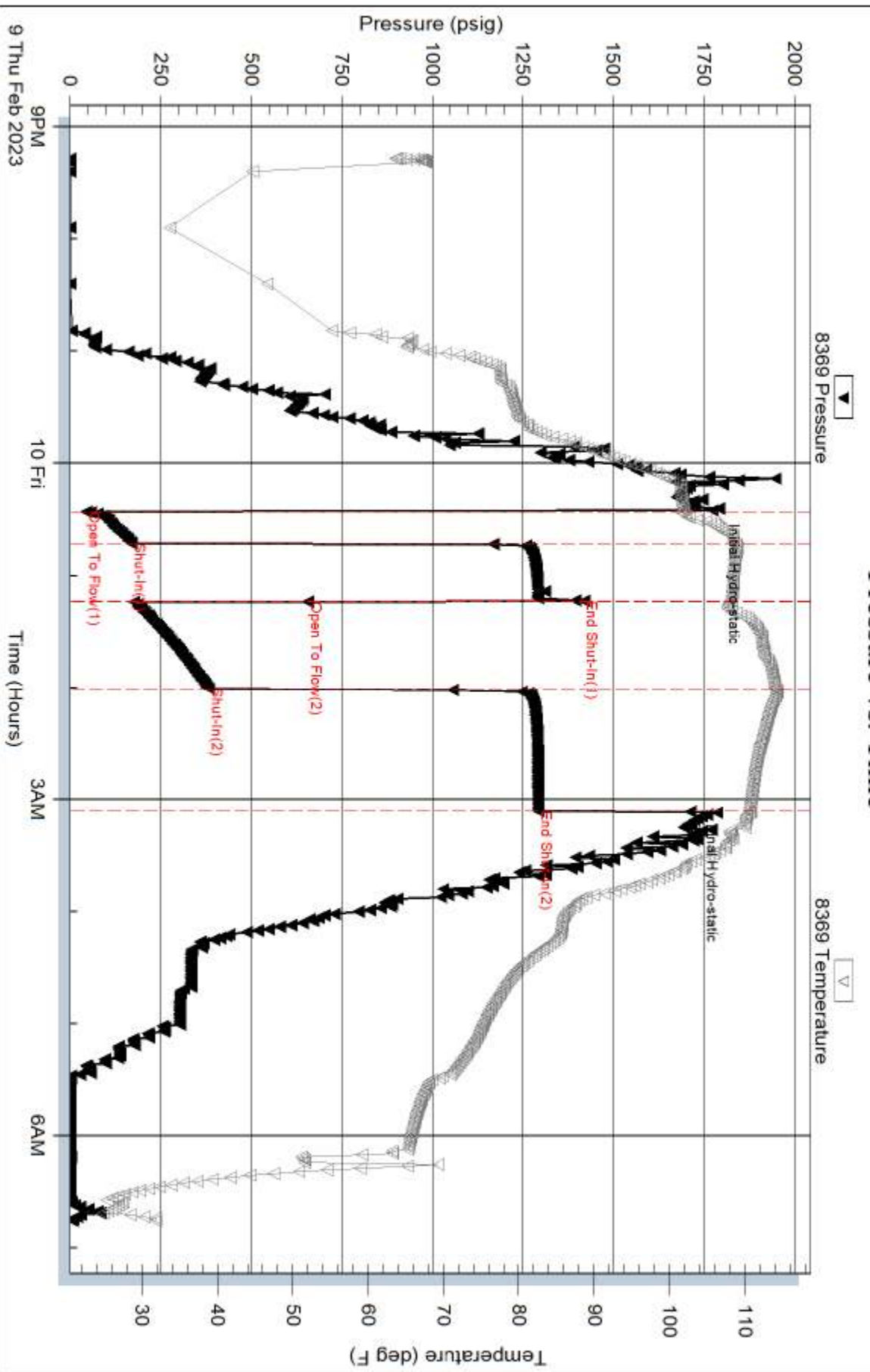
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



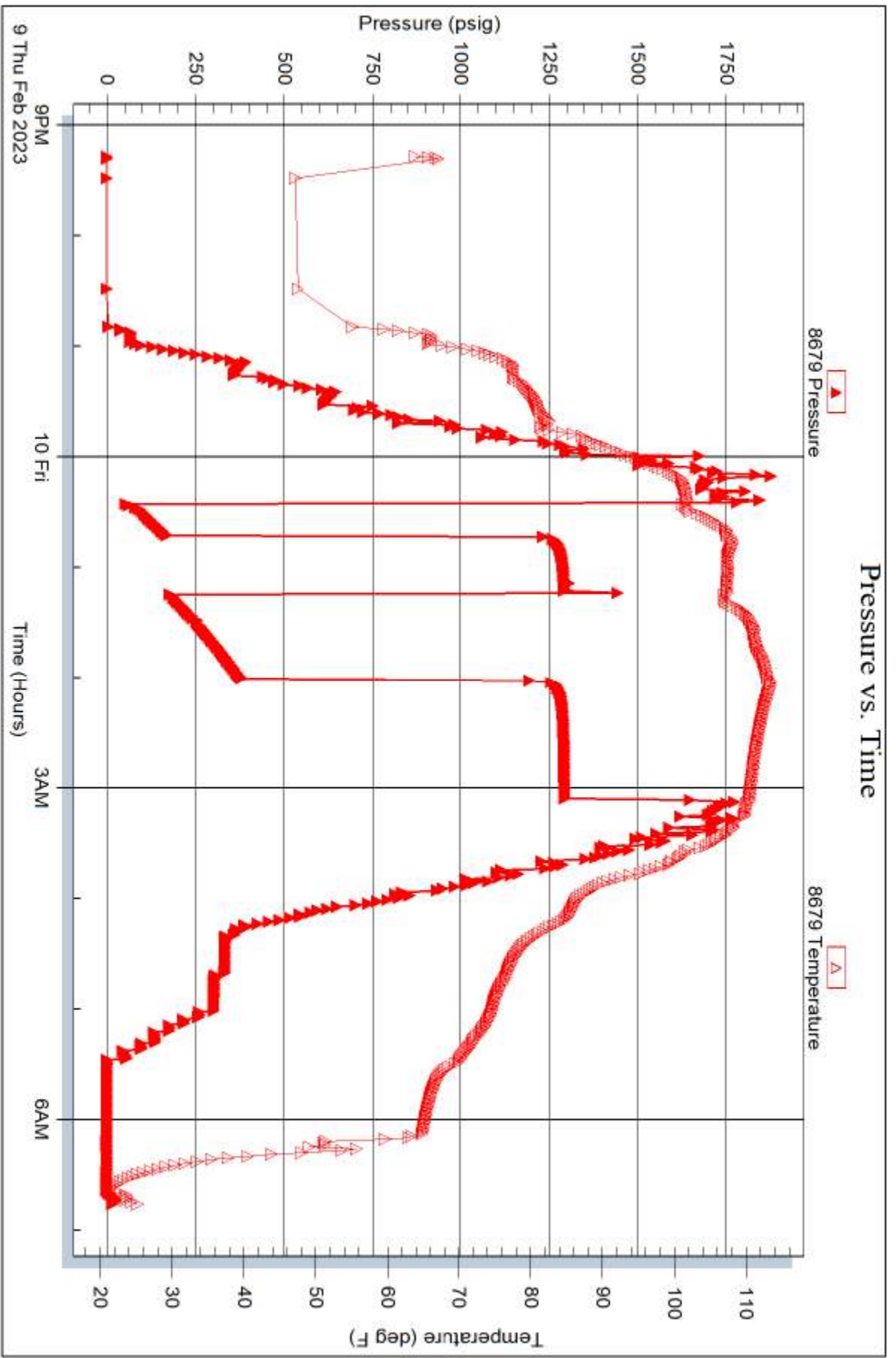
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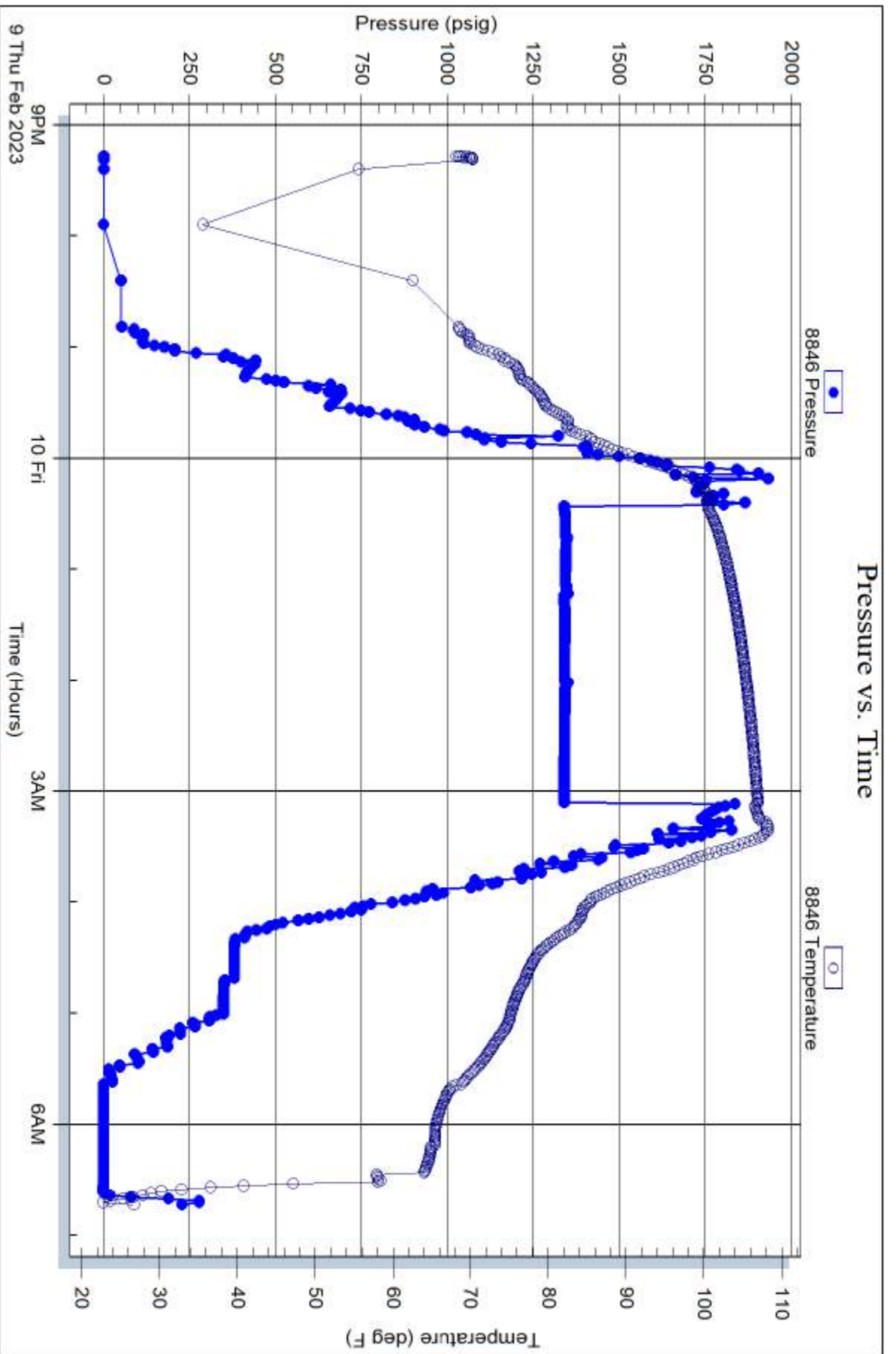
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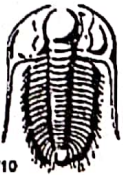
Bird Dog Oil LLC.

Rutti Gates #2-5

DST Test Number: 7







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 69340

Well Name & No. Rutti Gates 2-5 Test No. 1 Date 2/5/23
 Company Bitdog Oil LLC Elevation 1910 KB 1898 GL
 Address 1801 Broadway STE 200 Denver, CO 80202
 Co. Rep / Geo. JEFF Lawler Rig Foss. 25
 Location: Sec. 5 Twp 22S Rge. 13W Co. Stafford State KS

Interval Tested 3406' - 3468' Zone Tested LKC C-F
 Anchor Length 62' Drill Pipe Run 3283' Mud Wt. 9.05
 Top Packer Depth 3398' Drill Collars Run 120 Vls 51
 Bottom Packer Depth 3402' Wt. Pipe Run 8 WL 7.2
 Total Depth 3468 Chlorides 4,160 ppm System LCM 2

Blow Description FF: Weak Building Blow built 3.71" (157)
ISF: No Blow Back. (30)
FF: Fair Building Blow after FLUSH built to 11.96" (130)
FSI: No Blow Back. (60)

| Rec | Feet of | %gas | %oil | %water | %mud |
|-----------|----------------|-----------|----------|-----------|-----------|
| <u>0</u> | <u>246' GP</u> | | | | |
| <u>32</u> | <u>6150 cm</u> | <u>5</u> | <u>5</u> | | <u>90</u> |
| <u>60</u> | <u>6150 cm</u> | <u>10</u> | <u>5</u> | | <u>85</u> |
| <u>60</u> | <u>6150 cm</u> | <u>10</u> | <u>5</u> | <u>25</u> | <u>60</u> |
| | | | | | |

Rec Total 152 BHT 102 Gravity _____ API RW .61 @ 59 °F Chlorides 12,000 ppm

(A) Initial Hydrostatic 1644 Test 1800 T-On Location 0305
 (B) First Initial Flow 127 Jars _____ T-Started 0405
 (C) First Final Flow 280 Safety Joint _____ T-Open 0655
 (D) Initial Shut-In 729 Circ Sub _____ T-Pulled 0940
 (E) Second Initial Flow 62 Hourly Standby _____ T-Out 1144
 (F) Second Final Flow 87 Mileage 66 115.50 Comments _____
 (G) Final Shut-In 673 Sampler _____
 (H) Final Hydrostatic 1626 Straddle _____ EM Tool _____
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Day Standby _____ Sub Total 0
 Accessibility _____ Total 1915.50
 Sub Total 1915.50 MP/DST Disc't _____

Approved By _____ 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. **69341**

Well Name & No. Rutti Gates 2-5 Test No. 2 Date 2/14/23
 Company Bin Day Oil LLC Elevation 1910 KB 1878 GL
 Address 1801 Broadway STE 300 Denver, CO. 80202
 Co. Rep / Geo. Jeff Lawlor Rig Foss. 25
 Location: Sec. 5 Twp 22S Rge. 13W Co. Stafford State KS

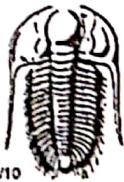
Interval Tested 3510' - 3600' Zone Tested LKC H-K
 Anchor Length 90' Drill Pipe Run 3377' Mud Wt. 9.2
 Top Packer Depth 3502' Drill Collars Run 120 Vls 49
 Bottom Packer Depth 3506' Wt. Pipe Run Ø WL 7.6
 Total Depth 3600' Chlorides 5450 ppm System LCM 2
 Blow Description FF: Fair Building Blow built 3.41" (15)
ISI 40 Hand back (30)
FF: Fair Building Blow built to 4.82" (45)
FSE: no blow back (60)

| Rec | Feet of | %gas | %oil | %water | %mud |
|------------|------------|------|------|------------|------|
| <u>156</u> | <u>OSM</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 156 BHT 102 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1714 Test 1800 T-On Location 0310
 (B) First Initial Flow 22 Jars _____ T-Started 0420
 (C) First Final Flow 53 Safety Joint _____ T-Open 0652
 (D) Initial Shut-In 654 Circ Sub _____ T-Pulled 0921
 (E) Second Initial Flow 59 Hourly Standby _____ T-Out 1134
 (F) Second Final Flow 97 Mileage 66 115.50 Comments _____
 (G) Final Shut-In 646 Sampler _____
 (H) Final Hydrostatic 1615 Straddle _____ EM Tool _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1915.50 Sub Total 0
 Total 1915.50 MP/DST Disc't _____

Approved By _____ Our Representative _____
 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. 69342

Well Name & No. Ruthi Gates 2-5 Test No. 3 Date 2/7/23
 Company Bird Dog Oil LLC Elevation 1910 KB 1898 GL
 Address 1801 Broadway STE 200 Denver, CO 80202
 Co. Rep / Geo. Jeff Lander Rig Fossil 5
 Location: Sec. 5 Twp 22S Rge. 13W Co. Stafford State KS

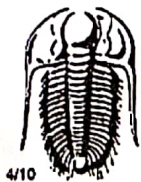
Interval Tested 3658-3735 Zone Tested Kiola
 Anchor Length 77' Drill Pipe Run 3535' Mud Wt. 9.05
 Top Packer Depth 3650' Drill Collars Run 120' Vis 57
 Bottom Packer Depth 3654' Wt. Pipe Run Ø WL 9.6
 Total Depth 3735 Chlorides 5900 ppm System LCM #2
 Blow Description IF: Weak Building Blow built to 1.08" (15)
IS: No Blow Back (30)
FF: No Blow Until after Flushing tool built to .37" (30) Tool not plugged.
FSI: No Blow Back (60)

| Rec | Feet of | %gas | %oil | %water | %mud |
|-----|---------|------|------|--------|------|
| 5 | Mud | | | 100 | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Rec Total 5 BHT _____ Gravity 1800 API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1899 Test _____ T-On Location 0330
 (B) First Initial Flow 23 Jars _____ T-Started 0448
 (C) First Final Flow 30 Safety Joint _____ T-Open 0714
 (D) Initial Shut-In 297 Circ Sub _____ T-Pulled 0930
 (E) Second Initial Flow 33 Hourly Standby _____ T-Out 1155
 (F) Second Final Flow 44 Mileage 66 115.50 Comments _____
 (G) Final Shut-In 608 Sampler _____
 (H) Final Hydrostatic 1665 Straddle EM Tool _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Initial Open 5 Extra Packer _____
 Initial Shut-In 30 Extra Recorder _____
 Final Flow 30 Day Standby _____
 Final Shut-In 60 Accessibility _____
 Sub Total 1915.50 Sub Total _____ MP/DST Disc't _____

Approved By _____ Our Representative [Signature]
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 69343

Well Name & No. Rutti Gates 2-5 Test No. 4 Date 2/18/23
 Company Bird Dog Oil LLC Elevation 1910 KB 1898 GL
 Address 1801 Broadway STE 200 Denver, CO. 80202
 Co. Rep / Geo. Jeff Lawler Rig Fossil 5
 Location: Sec. 5 Twp 22S Rge. 13W Co. Stafford State KS.

Interval Tested 3726' - 3790' Zone Tested SIMPSON sand - Arbuckle
 Anchor Length 64' Drill Pipe Run 3598' Mud Wt. 9.3
 Top Packer Depth 3718' Drill Collars Run 120 Vls 53
 Bottom Packer Depth 3722' Wt. Pipe Run _____ WL 9.2
 Total Depth 3790' Chlorides 8000 ppm System LCM 2
 Blow Description IF: Packer Failure
ISI:
FF:
FSI:

| Rec | Feet of | %gas | %oil | %water | %mud |
|------------|------------|------|------|------------|------|
| <u>750</u> | <u>mud</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 750 BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

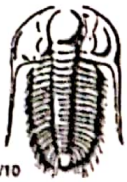
(A) Initial Hydrostatic _____ Test 1350 T-On Location 0000
 (B) First Initial Flow _____ Jars _____ T-Started 0032
 (C) First Final Flow _____ Safety Joint _____ T-Open 0257
 (D) Initial Shut-In _____ Circ Sub _____ T-Pulled 0305
 (E) Second Initial Flow _____ Hourly Standby _____ T-Out 0553
 (F) Second Final Flow _____ Mileage 46 115.50 Comments _____
 (G) Final Shut-In _____ Sampler _____
 (H) Final Hydrostatic _____ Straddle _____ EM Tool _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 15
 Initial Shut-In _____
 Final Flow _____
 Final Shut-In _____

Sub Total 1465.50 MP/DST Disc't _____
 Sub Total 1465.50 Total 1465.50

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 69344

Well Name & No. Rutti Gates 2-5 Test No. 5 Date 2/18/23
 Company Bird Dog Oil LLC Elevation 1910 KB 1893 GL
 Address 1801 Broadway STE 200 Denver, CO. 80202
 Co. Rep / Geo. Jeff Lawler Rig Fossil 5
 Location: Sec. 5 Twp 22S Rge. 13W Co. STAFFORD State KS

Interval Tested 3710' - 3790' Zone Tested Simpson Sand - Arbuckle
 Anchor Length 80' Drill Pipe Run 3566' Mud Wt. 9.3
 Top Packer Depth 3702' Drill Collars Run 120' Vis 57
 Bottom Packer Depth 3706' Wt. Pipe Run Ø WL 9.2
 Total Depth 3790' Chlorides 8,000 ppm System LCM 2

Blow Description IF: Packer Failure.
ISL:
FF:
FSI:

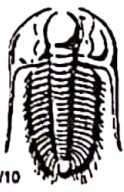
| Rec | Feet of | %gas | %oil | %water | %mud |
|------------|------------|------|------|--------|------------|
| <u>152</u> | <u>Mud</u> | | | | <u>100</u> |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |

Rec Total 152 BHT 103 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic _____ Test 1350 T-On Location 0715
 (B) First Initial Flow _____ Jars _____ T-Started 0739
 (C) First Final Flow _____ Safety Joint _____ T-Open 1015
 (D) Initial Shut-In _____ Circ Sub _____ T-Pulled 1020
 (E) Second Initial Flow _____ Hourly Standby _____ T-Out 1332
 (F) Second Final Flow _____ Mileage 40 GB SHOP Comments _____
 (G) Final Shut-In _____ Sampler _____
 (H) Final Hydrostatic _____ Straddle _____ EM Tool _____
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Day Standby _____ Sub Total 0
 Accessibility _____ Total 1350
 Sub Total 1350 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 69345

Well Name & No. Ruth Gates 2-5 Test No. 6 Date 2/8/23
 Company Bird Dog Oil LLC Elevation 1910 KB 1898 GL
 Address 1801 Broad Way STE 200 Denver, CO 80202
 Co. Rep / Geo. Jeff Lawler Rig Fossil 5
 Location: Sec. 5 Twp 22S Rge. 13W Co. Stafford State Ks

Interval Tested 3658' - 3790' Zone Tested Viola-Simpson sand - Arkackle
 Anchor Length 132' Drill Pipe Run 3535 Mud Wt. 9.0
 Top Packer Depth 3650' Drill Collars Run 120 Vls 56
 Bottom Packer Depth 3654' Wt. Pipe Run Ø WL 7.2
 Total Depth 3790' Chlorides 6500 ppm System LCM 1

Blow Description IF: Strong Building Blow built 173.07" (15)
ISL: NO Blow Back. (30)
FK: Strong Building Blow built 167.10" (15)
FSL: NO Blow Back. (60)

| Rec | Feet of | %gas | %oil | %water | %mud |
|--------------|--------------|------|------|------------|-----------|
| <u>250.5</u> | <u>WCM</u> | | | <u>50</u> | <u>50</u> |
| <u>250.5</u> | <u>MCW</u> | | | <u>70</u> | <u>30</u> |
| <u>250.5</u> | <u>MCW</u> | | | <u>80</u> | <u>20</u> |
| <u>250.5</u> | <u>MCW</u> | | | <u>95</u> | <u>5</u> |
| <u>1008</u> | <u>Water</u> | | | <u>100</u> | |

Rec Total 2010' BHT 109 Gravity _____ API RW .38 @ 54 °F Chlorides 24,000 ppm

(A) Initial Hydrostatic 1764 Test 1800 T-On Location 1940
 (B) First Initial Flow 231 Jars _____ T-Started 2033
 (C) First Final Flow 646 Safety Joint _____ T-Open 2255
 (D) Initial Shut-In 1278 Circ Sub _____ T-Pulled 0100
 (E) Second Initial Flow 649 Hourly Standby _____ T-Out 0501
 (F) Second Final Flow 948 Mileage 66 ^{115.50} _____ Comments _____
 (G) Final Shut-In 1279 Sampler _____
 (H) Final Hydrostatic 1734 Straddle _____ EM Tool _____
 Initial Open 15 Extra Packer _____ Ruined Shale Packer _____
 Initial Shut-In 30 Extra Recorder _____ Ruined Packer _____
 Final Flow 15 Day Standby _____ Extra Copies _____
 Final Shut-In 60 Accessibility _____ Sub Total 0
 Sub Total 2165.50 Total 2165.50 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 69346

Well Name & No. Rutti Gates 2-5 Test No. 7 Date 8/21/25
 Company Bind Dog Oil LLC Elevation 1906 KB 1898 GL
 Address 1801 Broadway STE 200 Denver, CO 80202
 Co. Rep / Geo. Jeff Lowler Rig Possil 5
 Location: Sec. 5 Twp 22S Rge. 13W Co. STAFFORD State KS

Interval Tested 3690' - 3779 Zone Tested Simon Sand - Arbuckle
 Anchor Length 89' Drill Pipe Run 3566 Mud Wt. 9.1
 Top Packer Depth 3682' Drill Collars Run 130' Vis 57
 Bottom Packer Depth 3686' Wt. Pipe Run 0 WL 8.8
 Total Depth 3868 Chlorides 7500 ppm System LCM 2
 Blow Description IF: Strong Building Blow built to 22.42" (15)
ISI: NO Blow Back (30)
FF: Strong Building Blow built 42.37" (45)
FSI: NO Blow Back (60)

| Rec | Feet of | %gas | %oil | %water | 100 %mud |
|-----|---------|------|------|--------|----------|
| 63' | OSM | | | | |
| 126 | GUSOWCM | 5 | 5 | 30 | 60 |
| 63 | GUSOWCM | 2.5 | 2.5 | 45 | 50 |
| 63 | GOSMCW | 5 | X | 50 | 25 |
| 561 | W | | | 100 | |

Rec Total 876 BHT 110 Gravity API RW .42 @ 50 °F Chlorides 22,000 ppm

(A) Initial Hydrostatic 1774 Test 1800 T-On Location 1900
 (B) First Initial Flow 46 Jars T-Started 2116
 (C) First Final Flow 171 Safety Joint T-Open 0625
 (D) Initial Shut-In 1420 Circ Sub T-Pulled 0308
 (E) Second Initial Flow 657 Hourly Standby T-Out 0643
 (F) Second Final Flow 383 Mileage 66 115.50 Comments _____
 (G) Final Shut-In 1294 Sampler _____
 (H) Final Hydrostatic 1714 Straddle 800 EM Tool _____
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Initial Open 15 Day Standby _____ Sub Total 0
 Initial Shut-In 30 Accessibility _____ Total 2715.50
 Final Flow 45 Sub Total 2715.50 MP/DST Disc't _____
 Final Shut-In 60

Approved By _____ Our Representative RLB
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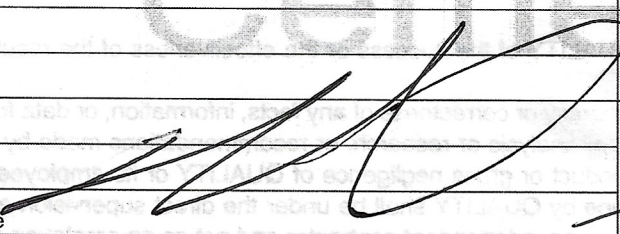
QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. **3398**

| | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|------|---------------------|--|-----------------------|--|------|----------|-----------------------------|------------------------|----|-------------|----------------------|-----------|---------|--|----------|----|--|--|
| Date | 2-1-23 | Sec. | 5 | Twp. | 22 | Range | 13 | County | Stafford | State | Ks | On Location | | Finish | 3:30 AM | | | | | |
| Lease | Rutti - Gates | | | | | | | Location | 281 + K19 Jct, 1W, N/W Into | | | | | | | | | | | |
| Well No. | 2-5 | | Owner | To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed. | | | | | | | | | | | | | | | | |
| Contractor | Fossil \$5 | | Charge To | Bird Dog oil | | | | | | | | | | | | | | | | |
| Type Job | Surface | | Street | | | | | | | | | | | | | | | | | |
| Hole Size | 12 1/4" | | T.D. | 480' | | Depth | 477' | | City | State | | | | | | | | | | |
| Csg. | 85/8" | | Tool | Depth | | The above was done to satisfaction and supervision of owner agent or contractor. | | | | | | | | | | | | | | |
| Tbg. Size | | | Cement Left in Csg. | 20' | | Shoe Joint | 20' | | Cement Amount Ordered | 480 80/20 3% CC 2% Gel | | | | | | | | | | |
| Meas Line | Displace | | 29 1/4 BS | | 1/2 # Flo-seal per sk | | | | | | | | | | | | | | | |
| EQUIPMENT | | | | | | | | | | | | | Common | 385 | | | | | | |
| Pumptrk | 16 | No. | Cementer | David | | Helper | | | | | | | | | | | Poz. Mix | 95 | | |
| Bulktrk | 19 | No. | Driver | Bryant | | Driver | | | | | | | | | | | Gel. | 9 | | |
| Bulktrk | p.u. | No. | Driver | Rick | | Driver | | | | | | | | | | | Calcium | 17 | | |
| JOB SERVICES & REMARKS | | | | | | | | | | | | | Hulls | | | | | | | |
| Remarks: | Cement did Circulate | | | | | | | | | | | | Salt | | | | | | | |
| Rat Hole | | | | | | | | | | | | | Flowseal | 240 # | | | | | | |
| Mouse Hole | | | | | | | | | | | | | Kol-Seal | | | | | | | |
| Centralizers | | | | | | | | | | | | | Mud CLR | 48 | | | | | | |
| Baskets | | | | | | | | | | | | | CFL-117 or CD110 CAF | 38 | | | | | | |
| D/V or Port Collar | | | | | | | | | | | | | Sand | | | | | | | |
| | | | | | | | | | | | | | Handling | 506 | | | | | | |
| | | | | | | | | | | | | | Mileage | | | | | | | |
| FLOAT EQUIPMENT | | | | | | | | | | | | | Guide Shoe | | | | | | | |
| | | | | | | | | | | | | | Centralizer | | | | | | | |
| | | | | | | | | | | | | | Baskets | | | | | | | |
| | | | | | | | | | | | | | AFU Inserts | | | | | | | |
| | | | | | | | | | | | | | Float Shoe | | | | | | | |
| | | | | | | | | | | | | | Latch Down | | | | | | | |
| | | | | | | | | | | | | | Pumptrk Charge | 0 Surface | | | | | | |
| | | | | | | | | | | | | | Mileage | 17 | | | | | | |
| | | | | | | | | | | | | | Thanks | | | | | | | |
| X Signature |  | | | | | | | | | | | | Tax | | | | | | | |
| | | | | | | | | | | | | | Discount | | | | | | | |
| | | | | | | | | | | | | | Total Charge | | | | | | | |

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 3462

| | | | | | | | | | | | | | | | |
|------------|---------------|------|---|------|----|-------|----|----------|------------------------------------|-------|----|-------------|--|--------|--------|
| Date | 2-10-23 | Sec. | S | Twp. | 22 | Range | 13 | County | Stafford | State | Ks | On Location | | Finish | 5:30PM |
| Lease | Rutti - Gates | | | | | | | Location | 281 + K19 - 1W, N + W to Rig | | | | | | |
| Contractor | Fossil #5 | | | | | | | Well No. | 2-5 | | | | | | |
| Type Job | Plug | | | | | | | Owner | To Quality Oilwell Cementing, Inc. | | | | | | |

You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

| | | | | | |
|---------------------|-------------|------------|---------|--|----------------------------|
| Hole Size | 7 7/8" | T.D. | 3869' | Charge To | Bird Dog |
| Csg. | | Depth | | Street | |
| Tbg. Size | 4 1/2" D.P. | Depth | 3778' | City | |
| Tool | | Depth | | State | |
| Cement Left in Csg. | | Shoe Joint | | The above was done to satisfaction and supervision of owner agent or contractor. | |
| Meas Line | | Displace | H2O/mud | Cement Amount Ordered | 220 60/40 4% 1/4 # F10-500 |

EQUIPMENT

| | | | | |
|---------|----|-----|----------|--------|
| Pumptrk | 16 | No. | Cementer | Jordan |
| Bulktrk | 14 | No. | Driver | Ross |
| Bulktrk | 20 | No. | Driver | Rick |

| | |
|-------------------------|-----|
| Common | 132 |
| Poz. Mix | 88 |
| Gel. | 8 |
| Calcium | |
| Hulls | |
| Salt | |
| Flowseal | 50# |
| Kol-Seal | |
| Mud CLR 48 | |
| CFL-117 or CD110 CAF 38 | |
| Sand | |
| Handling | 228 |
| Mileage | |

JOB SERVICES & REMARKS

Remarks: 3778' - 50 SX
Rat Hole 930' - 50 SX
Mouse Hole 510' - 50 SX
Centralizers 60' - 20 SX
Baskets Rathole - 30 SX
D/V or Port Collar Mousehole - 20 SX

Cement did Circulate

FLOAT EQUIPMENT

- Guide Shoe
- Centralizer
- Baskets
- AFU Inserts
- Float Shoe
- Latch Down

Pumptrk Charge plug
Mileage 17

Thanks

Tax
Discount
Total Charge

X Signature

