

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<br><i>(Attach Additional Sheets)</i><br><br>Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No<br><br>Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No<br>Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No<br>Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No<br><br>List All E. Logs Run: | <input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample<br><br>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<br><input type="checkbox"/> Protect Casing<br><input type="checkbox"/> Plug Back TD<br><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:<br><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:<br><input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease<br><i>(If vented, Submit ACO-18.)</i> | METHOD OF COMPLETION:<br><input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled<br><i>(Submit ACO-5) (Submit ACO-4)</i> | PRODUCTION INTERVAL:<br>Top Bottom |
|---|--|------------------------------------|

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

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

|           |                                |
|-----------|--------------------------------|
| Form      | ACO1 - Well Completion         |
| Operator  | K3 Oil & Gas Operating Company |
| Well Name | CARTER - BARKER 13-34          |
| Doc ID    | 1441629                        |

All Electric Logs Run

|                            |
|----------------------------|
|                            |
| Micro                      |
| Repeat Section log         |
| Annual Hole                |
| Spectral Density Neutron   |
| True Resistivity           |
| Borehole Compensated Sonic |

|           |                                |
|-----------|--------------------------------|
| Form      | ACO1 - Well Completion         |
| Operator  | K3 Oil & Gas Operating Company |
| Well Name | CARTER - BARKER 13-34          |
| Doc ID    | 1441629                        |

Tops

| Name        | Top  | Datum      |
|-------------|------|------------|
| Indian Cave | 2619 | Topeka-803 |
| Topeka      | 3135 | -1319      |
| Heebner     | 3486 | -1670      |
| Lsg         | 3666 | -1850      |
| Marm        | 4062 | -2246      |
| Miss        | 4107 | -2291      |
| Kinderhook  | 4269 | -2453      |
| Viola       | 4309 | -2586      |
| Simpson     | 4402 | -2586      |
| Arbuckle    | 4500 | -2684      |





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

K3 Oil & Gas Operating Comp.

**34-27s-2w Pratt Ks.**

24900 Pitkin Rd Suite 305  
The Woodlands, Tx. 77386

**Carter Barker 13-34**

ATTN: Randy Say

Job Ticket: 64913

**DST#: 1**

Test Start: 2019.02.07 @ 10:23:14

## GENERAL INFORMATION:

Formation: **Lansing H- J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:41:14

Time Test Ended: 22:58:29

Test Type: Conventional Bottom Hole (Initial)

Tester: Matt Smith

Unit No: 68

Interval: **3786.00 ft (KB) To 3875.00 ft (KB) (TVD)**

Reference Elevations: 1811.00 ft (KB)

Total Depth: 3875.00 ft (KB) (TVD)

1807.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 4.00 ft

**Serial #: 8931**

**Inside**

Press@RunDepth: 756.67 psig @ 3787.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.02.07

End Date:

2019.02.07

Last Calib.:

2019.02.07

Start Time: 10:23:19

End Time:

22:58:29

Time On Btm:

2019.02.07 @ 13:32:59

Time Off Btm:

2019.02.07 @ 16:29:59

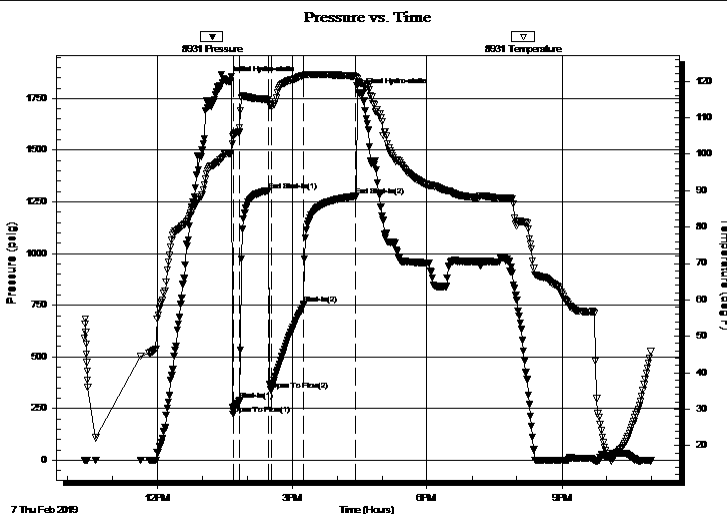
TEST COMMENT: IF: Strong blow . B.O.B. in 1 min. Built to 674.94".

IS: Strong blow . G.T.S. Built to 22.34".

FF: Strong blw . B.O.B. Immediate. Built to 38.17". While Gauging gas, 1/8" choke.

FS: Strong blow . Built to 47.69".

## PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1834.74         | 100.08       | Initial Hydro-static |
| 9           | 222.85          | 104.83       | Open To Flow (1)     |
| 17          | 288.17          | 107.28       | Shut-In(1)           |
| 56          | 1302.16         | 114.94       | End Shut-In(1)       |
| 60          | 339.58          | 113.29       | Open To Flow (2)     |
| 103         | 756.67          | 121.60       | Shut-In(2)           |
| 172         | 1277.25         | 121.31       | End Shut-In(2)       |
| 177         | 1776.86         | 119.56       | Final Hydro-static   |

## Recovery

| Length (ft) | Description   | Volume (bbl) |
|-------------|---|--------------|
| 60.00       | MOCW 3% <sub>m</sub> 3% <sub>o</sub> 94% <sub>w</sub>   | 0.46         |
| 60.00       | MOCW 3% <sub>m</sub> 10% <sub>o</sub> 87% <sub>w</sub>  | 0.46         |
| 64.00       | OGCM 17% <sub>o</sub> 33% <sub>g</sub> 50% <sub>m</sub> | 0.90         |
| 1944.00     | G Oil 100% <sub>o</sub>                                 | 27.27        |
| 0.00        | 1632 FT G.I.P.  | 0.00         |

## Gas Rates

|                | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|----------------|-----------------|------------------|
| First Gas Rate | 0.13           | 12.39           | 10.03            |
| Last Gas Rate  | 0.13           | 53.47           | 25.40            |
| Max. Gas Rate  | 0.13           | 53.47           | 25.40            |





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

K3 Oil & Gas Operating Comp.

**34-27s-2w Pratt Ks.**

24900 Pitkin Rd Suite 305  
The Woodlands, Tx. 77386

**Carter Barker 13-34**

Job Ticket: 64913

**DST#: 1**

ATTN: Randy Say

Test Start: 2019.02.07 @ 10:23:14

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 47.00 sec/qt  
Water Loss: 8.79 in<sup>3</sup>  
Resistivity: 6000.00 ohm.m  
Salinity: ppm  
Filter Cake: 0.20 inches

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

Oil API: 28.4 deg API  
Water Salinity: 64000 ppm

## Recovery Information

Recovery Table

| Length<br>ft | Description   | Volume<br>bbl |
|--------------|---|---------------|
| 60.00        | MOCW 3% <sub>m</sub> 3% <sub>o</sub> 94% <sub>w</sub>   | 0.457         |
| 60.00        | MOCW 3% <sub>m</sub> 10% <sub>o</sub> 87% <sub>w</sub>  | 0.457         |
| 64.00        | OGCM 17% <sub>o</sub> 33% <sub>g</sub> 50% <sub>m</sub> | 0.898         |
| 1944.00      | G Oil 100% <sub>o</sub>                                 | 27.269        |
| 0.00         | 1632 FT G.I.P.  | 0.000         |

Total Length: 2128.00 ft      Total Volume: 29.081 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #: None

Laboratory Name:      Laboratory Location:

Recovery Comments: RW .04 @ 21 Degrees = 64,000 Chlorides.  
Gravity 26 @ 36 Degrees Corrected = 28.4 Gravity





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**GAS RATES**

K3 Oil & Gas Operating Comp.

**34-27s-2w Pratt Ks.**

24900 Pitkin Rd Suite 305  
The Woodlands, Tx. 77386

**Carter Barker 13-34**

Job Ticket: 64913

**DST#: 1**

ATTN: Randy Say

Test Start: 2019.02.07 @ 10:23:14

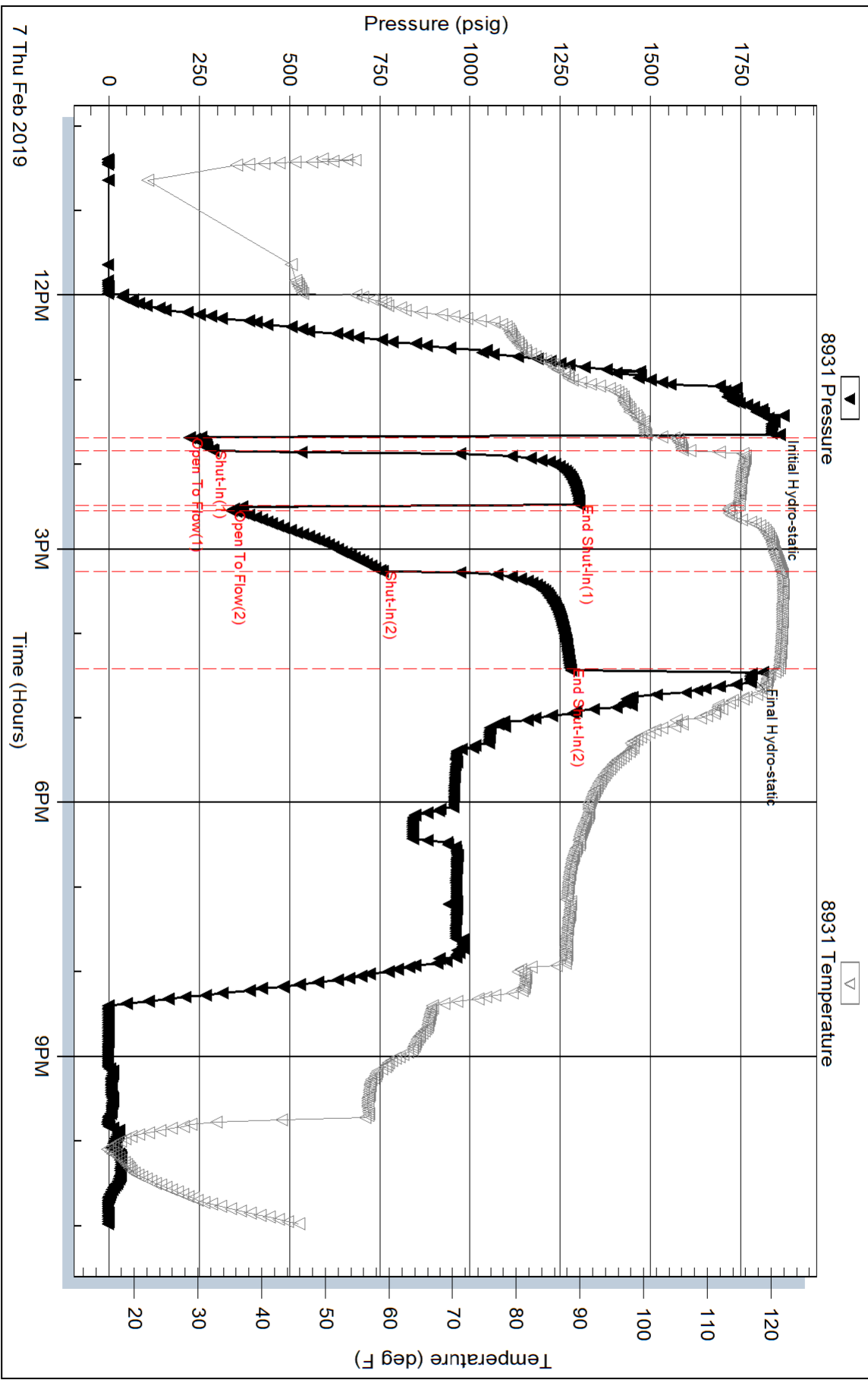
### Gas Rates Information

Temperature: 59 (deg F)  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

| Flow Period | Elapsed Time | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|-------------|--------------|----------------|-----------------|------------------|
| 2           | 10           | 0.13           | 12.39           | 10.03            |
| 2           | 20           | 0.13           | 27.81           | 15.80            |
| 2           | 30           | 0.13           | 36.76           | 19.15            |
| 2           | 40           | 0.13           | 46.93           | 22.96            |
| 2           | 45           | 0.13           | 53.47           | 25.40            |

### Pressure vs. Time

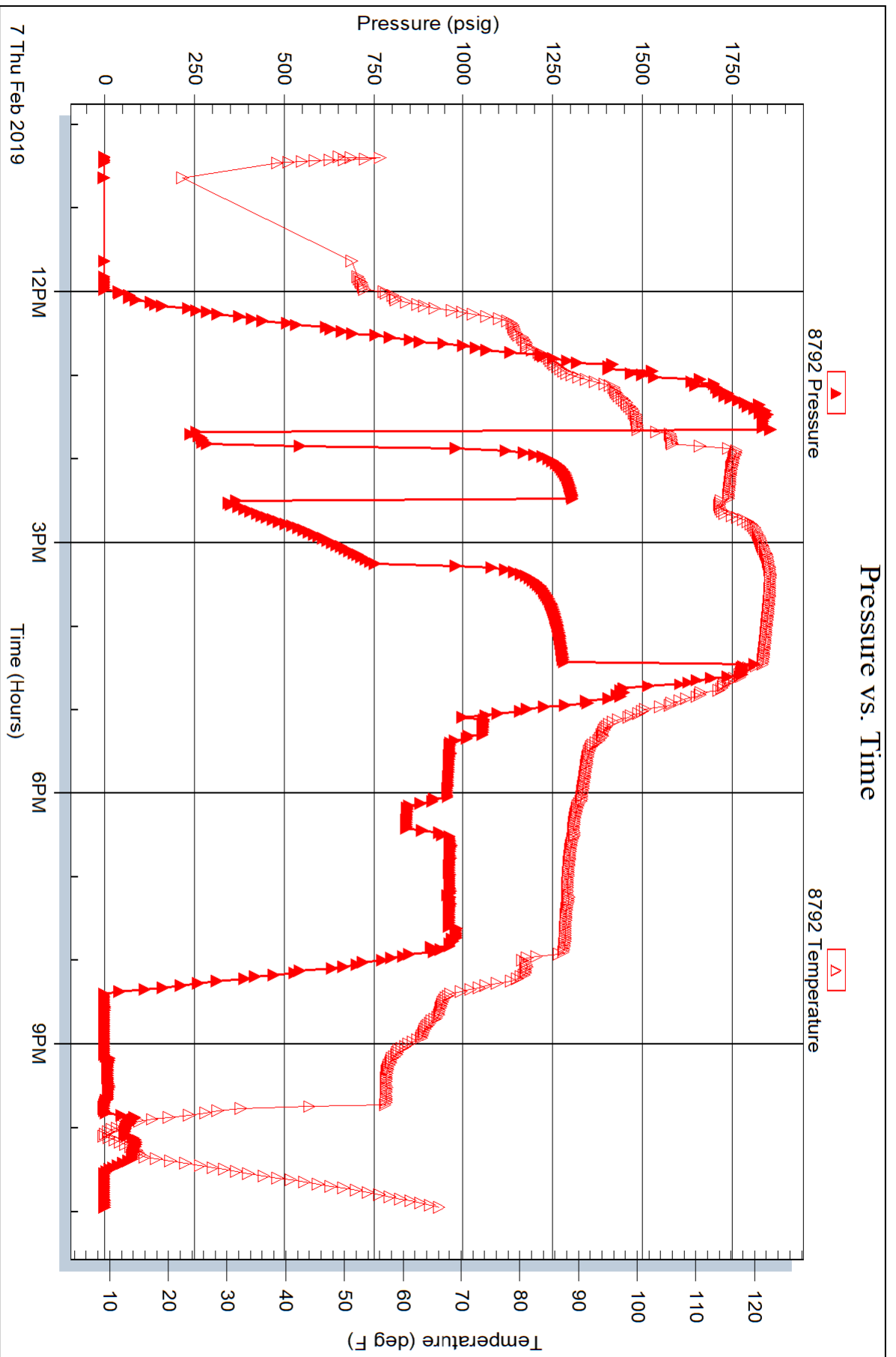


Serial #: 8792

Outside K3 Oil & Gas Operating Comp.

Carter Barker 13-34

DST Test Number: 1





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

K3 Oil & Gas Operating Comp.

**34-27s-2w Pratt Ks.**

24900 Pitkin Rd Suite 305  
The Woodlands, Tx. 77386

**Carter Barker 13-34**

ATTN: Randy Say

Job Ticket: 64914

**DST#: 2**

Test Start: 2019.02.09 @ 03:25:54

## GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:16:24

Time Test Ended: 13:26:54

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

**Interval: 4036.00 ft (KB) To 4067.00 ft (KB) (TVD)**

Reference Elevations: 1811.00 ft (KB)

Total Depth: 4067.00 ft (KB) (TVD)

1807.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 4.00 ft

**Serial #: 8931**

**Inside**

Press@RunDepth: 32.53 psig @ 4037.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.02.09

End Date:

2019.02.09

Last Calib.:

2019.02.09

Start Time:

03:25:59

End Time:

13:26:54

Time On Btm:

2019.02.09 @ 08:15:09

Time Off Btm:

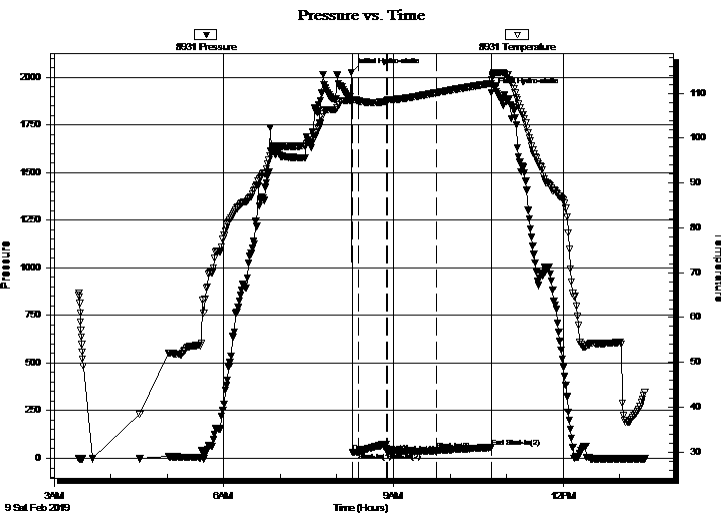
2019.02.09 @ 10:43:54

TEST COMMENT: IF: Weak blow . Built to 1".

IS: No blow .

FF: No blow .

FS: No blow



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2025.13         | 108.40       | Initial Hydro-static |
| 2           | 31.77           | 108.18       | Open To Flow (1)     |
| 8           | 32.53           | 108.33       | Shut-In(1)           |
| 38          | 75.39           | 108.16       | End Shut-In(1)       |
| 38          | 34.09           | 108.35       | Shut-In(2)           |
| 91          | 40.40           | 110.15       | Shut-In(3)           |
| 149         | 57.07           | 112.21       | End Shut-In(2)       |
| 149         | 1917.69         | 113.13       | Final Hydro-static   |

## Recovery

| Length (ft) | Description     | Volume (bbl) |
|-------------|-----------------|--------------|
| 60.00       | Drig Mud 100% m | 0.46         |
|             |                 |              |
|             |                 |              |
|             |                 |              |
|             |                 |              |

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

K3 Oil & Gas Operating Comp.

**34-27s-2w Pratt Ks.**

24900 Pitkin Rd Suite 305  
The Woodlands, Tx. 77386

**Carter Barker 13-34**

Job Ticket: 64914

**DST#: 2**

ATTN: Randy Say

Test Start: 2019.02.09 @ 03:25:54

## 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:

11000 ppm

Viscosity: 43.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 11000.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

| Length<br>ft | Description    | Volume<br>bbl |
|--------------|----------------|---------------|
| 60.00        | Drig Mud 100%m | 0.457         |

Total Length: 60.00 ft      Total Volume: 0.457 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: None

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler 300 ML Drilling Mud

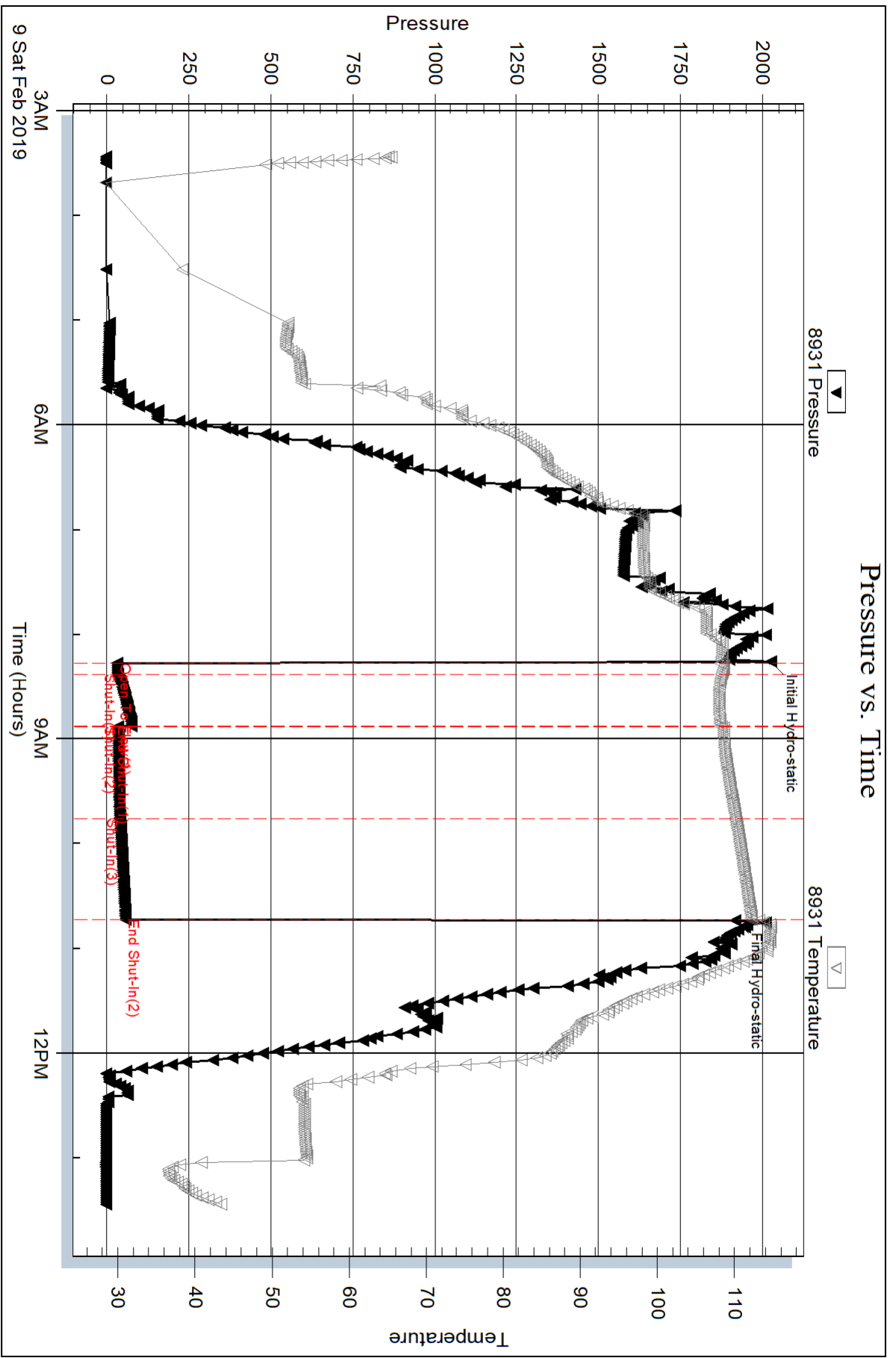
Serial #: 8931

Inside

K3 Oil & Gas Operating Comp.

Carter Barker 13-34

DST Test Number: 2

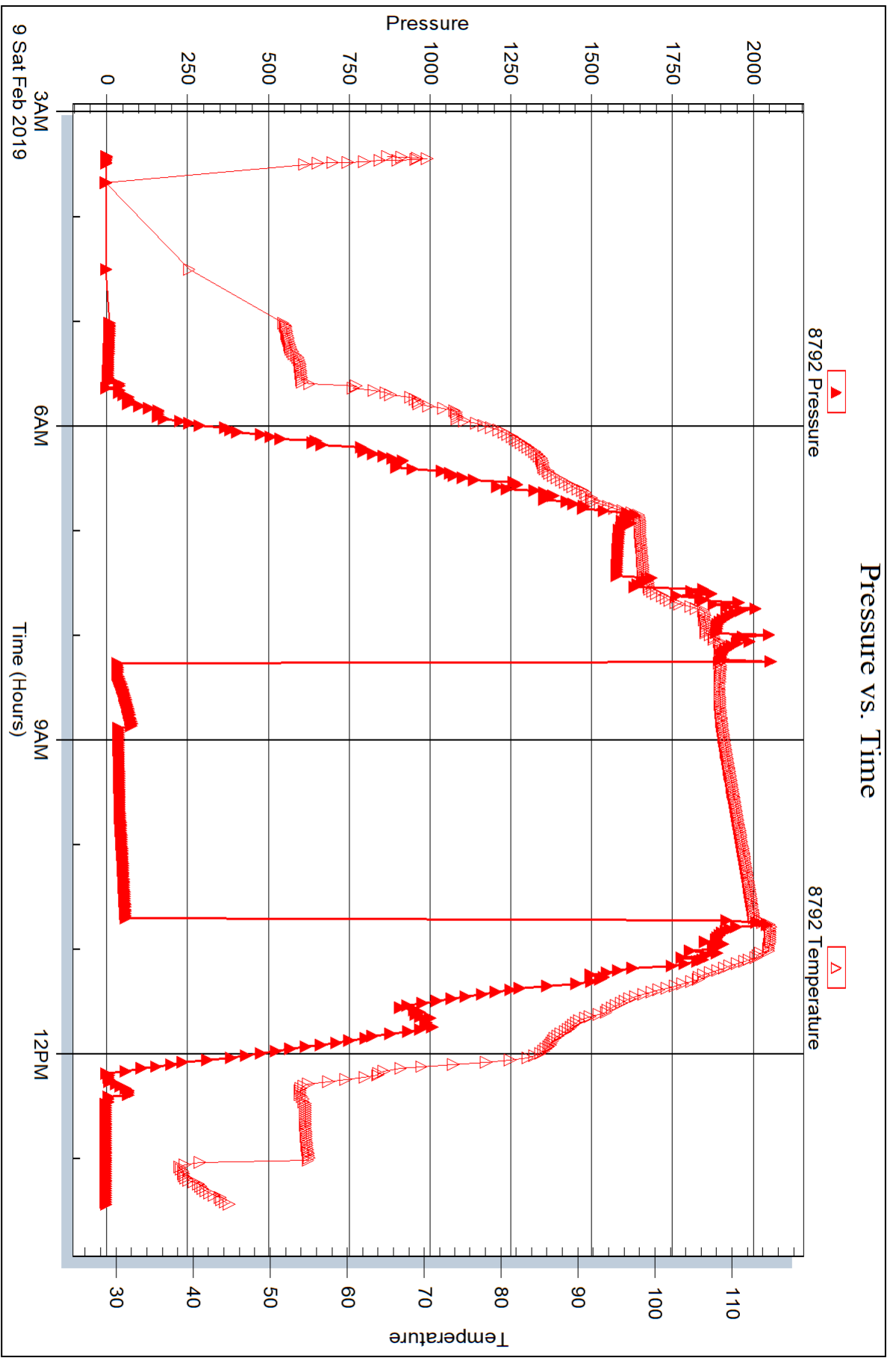


Serial #: 8792

Outside K3 Oil & Gas Operating Comp.

Carter Barker 13-34

DST Test Number: 2







**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

K3 Oil & Gas Operating Comp.

**34-27s-2w Pratt Ks.**

24900 Pitkin Rd Suite 305  
The Woodlands, Tx. 77386

**Carter Barker 13-34**

ATTN: Randy Say

Job Ticket: 64915

**DST#: 3**

Test Start: 2019.02.09 @ 23:15:07

## GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:24:37

Time Test Ended: 09:13:22

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

**Interval: 4110.00 ft (KB) To 4150.00 ft (KB) (TVD)**

Reference Elevations: 1811.00 ft (KB)

Total Depth: 4150.00 ft (KB) (TVD)

1807.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 4.00 ft

**Serial #: 8931**

**Inside**

Press@RunDepth: 28.08 psig @ 4111.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.02.09

End Date:

2019.02.10

Last Calib.:

2019.02.10

Start Time: 23:15:12

End Time:

09:13:22

Time On Btm:

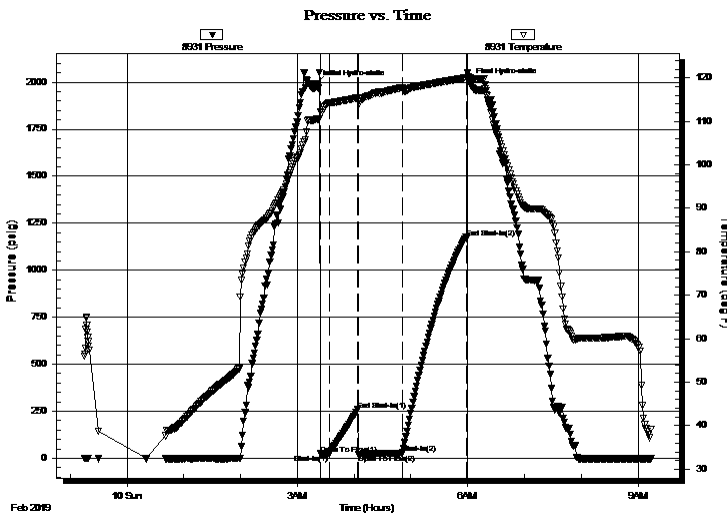
2019.02.10 @ 03:19:37

Time Off Btm:

2019.02.10 @ 06:02:07

**TEST COMMENT:** IF: Strong blow . B.O.B. in 3 mins. Built to 20.42".  
IS: Weak Surface blow .  
FF: Strong blow . B.O.B. Immediate. Built to 95.68".  
FSI: No blow .

## PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1989.69         | 110.38       | Initial Hydro-static |
| 5           | 23.14           | 112.24       | Open To Flow (1)     |
| 14          | 23.09           | 114.16       | Shut-In(1)           |
| 44          | 257.67          | 115.35       | End Shut-In(1)       |
| 45          | 21.90           | 114.52       | Open To Flow (2)     |
| 92          | 28.08           | 117.80       | Shut-In(2)           |
| 159         | 1174.05         | 120.01       | End Shut-In(2)       |
| 163         | 1998.44         | 119.98       | Final Hydro-static   |

## Recovery

| Length (ft) | Description    | Volume (bbl) |
|-------------|----------------|--------------|
| 60.00       | Drig Mud 100%m | 0.46         |
| 0.00        | 188 ft G.I.P.  | 0.00         |
|             |                |              |
|             |                |              |
|             |                |              |

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

K3 Oil & Gas Operating Comp.

**34-27s-2w Pratt Ks.**

24900 Pitkin Rd Suite 305  
The Woodlands, Tx. 77386

**Carter Barker 13-34**

Job Ticket: 64915

**DST#: 3**

ATTN: Randy Say

Test Start: 2019.02.09 @ 23:15:07

### 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:

11000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 11000.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: 0.20 inches

### Recovery Information

Recovery Table

| Length<br>ft | Description    | Volume<br>bbl |
|--------------|----------------|---------------|
| 60.00        | Drig Mud 100%m | 0.457         |
| 0.00         | 188 ft G.I.P.  | 0.000         |

Total Length: 60.00 ft      Total Volume: 0.457 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: None

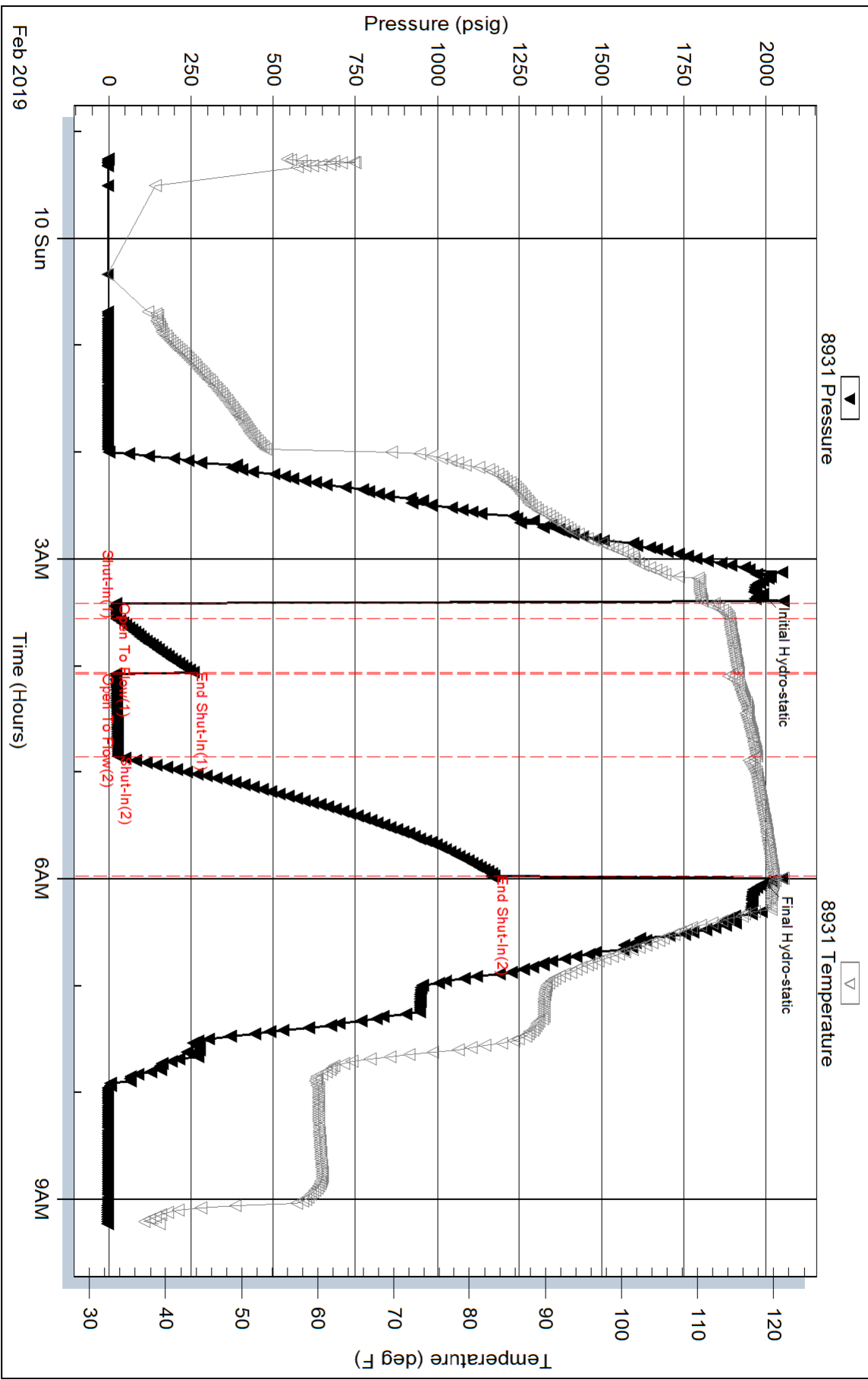
Laboratory Name:

Laboratory Location:

Recovery Comments: 188 Feet Gas In Pipe

Sampler 100 ML Drilling Mud 100 psi Gas 2.5 MCFD

### Pressure vs. Time

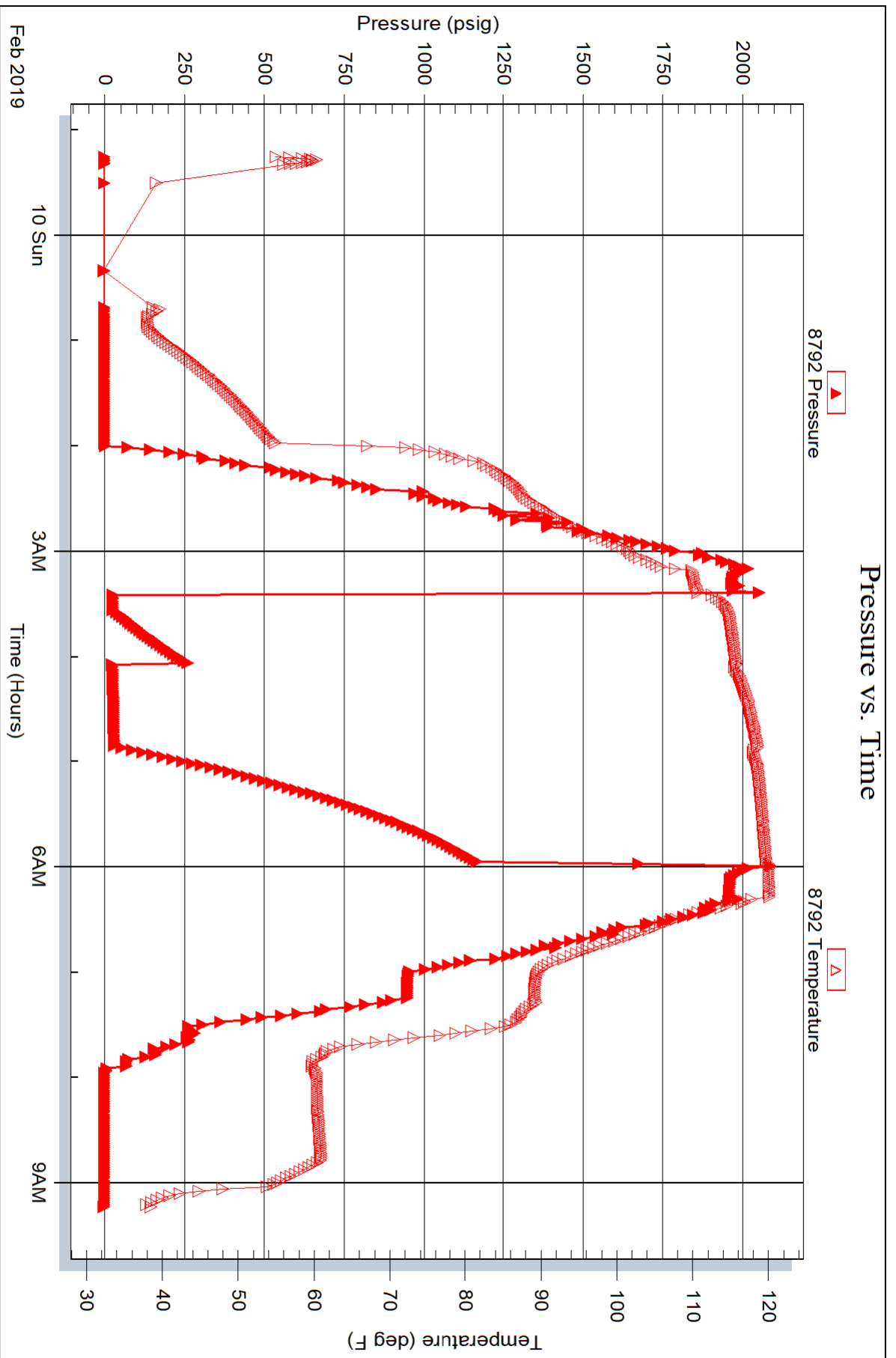


Serial #: 8792

Outside K3 Oil & Gas Operating Comp.

Carter Barker 13-34

DST Test Number: 3





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

K3 Oil & Gas Operating Comp.

**34-27s-2w Pratt Ks.**

24900 Pitkin Rd Suite 305  
The Woodlands, Tx. 77386

**Carter Barker 13-34**

ATTN: Randy Say

Job Ticket: 64916

**DST#: 4**

Test Start: 2019.02.11 @ 00:58:13

## GENERAL INFORMATION:

Formation: **Simpson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:39:28

Time Test Ended: 11:14:28

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

**Interval: 4388.00 ft (KB) To 4449.00 ft (KB) (TVD)**

Reference Elevations: 1811.00 ft (KB)

Total Depth: 4449.00 ft (KB) (TVD)

1807.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 4.00 ft

**Serial #: 8931**

**Inside**

Press@RunDepth: 317.13 psig @ 4389.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.02.11

End Date:

2019.02.11

Last Calib.:

2019.02.11

Start Time: 00:58:18

End Time:

11:14:28

Time On Btm:

2019.02.11 @ 03:35:13

Time Off Btm:

2019.02.11 @ 06:06:28

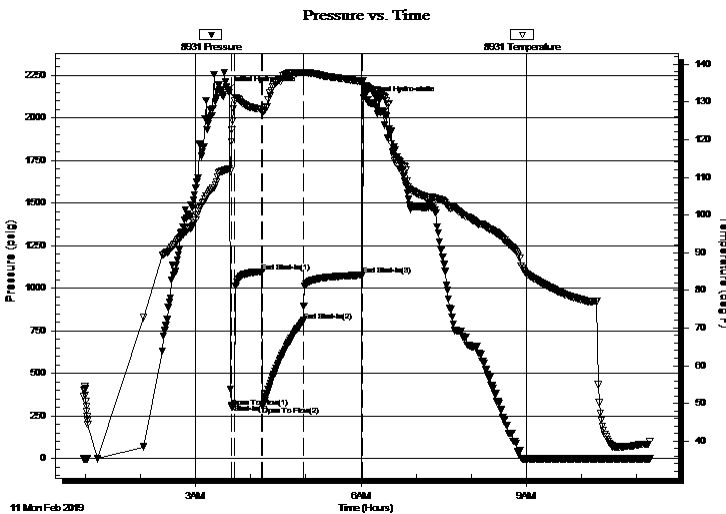
**TEST COMMENT:** IF: Strong blow . B.O.B. in 2 mins. Built to 31.25".

IS: No blow .

FF: Strong blow . B.O.B. in 2 mins. Built to 162.51".

FS: Weak blow . Built to 2.30".

## PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2164.22         | 112.11       | Initial Hydro-static |
| 5           | 303.17          | 122.57       | Open To Flow (1)     |
| 8           | 317.13          | 130.21       | Shut-In(1)           |
| 37          | 1097.25         | 127.91       | End Shut-In(1)       |
| 38          | 305.70          | 127.29       | Open To Flow (2)     |
| 83          | 808.75          | 137.66       | End Shut-In(2)       |
| 147         | 1077.02         | 135.37       | End Shut-In(3)       |
| 152         | 2104.56         | 134.03       | Final Hydro-static   |

## Recovery

| Length (ft) | Description   | Volume (bbl) |
|-------------|---------------|--------------|
| 60.00       | WCM 5%w 95%m  | 0.46         |
| 60.00       | MCW 3%m 97%w  | 0.46         |
| 640.00      | MCW 3%m 97%w  | 8.98         |
| 940.00      | WCM 20%w 80%m | 13.19        |
| 0.00        | 50 FT G.I.P.  | 0.00         |

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

K3 Oil & Gas Operating Comp.

**34-27s-2w Pratt Ks.**

24900 Pitkin Rd Suite 305  
The Woodlands, Tx. 77386

**Carter Barker 13-34**

Job Ticket: 64916

**DST#: 4**

ATTN: Randy Say

Test Start: 2019.02.11 @ 00:58:13

## 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:

11000 ppm

Viscosity: 43.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 9000.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

| Length<br>ft | Description   | Volume<br>bbl |
|--------------|---------------|---------------|
| 60.00        | WCM 5%w 95%m  | 0.457         |
| 60.00        | MCW 3%m 97%w  | 0.457         |
| 640.00       | MCW 3%m 97%w  | 8.978         |
| 940.00       | WCM 20%w 80%m | 13.186        |
| 0.00         | 50 FT G.I.P.  | 0.000         |

Total Length: 1700.00 ft      Total Volume: 23.078 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: None

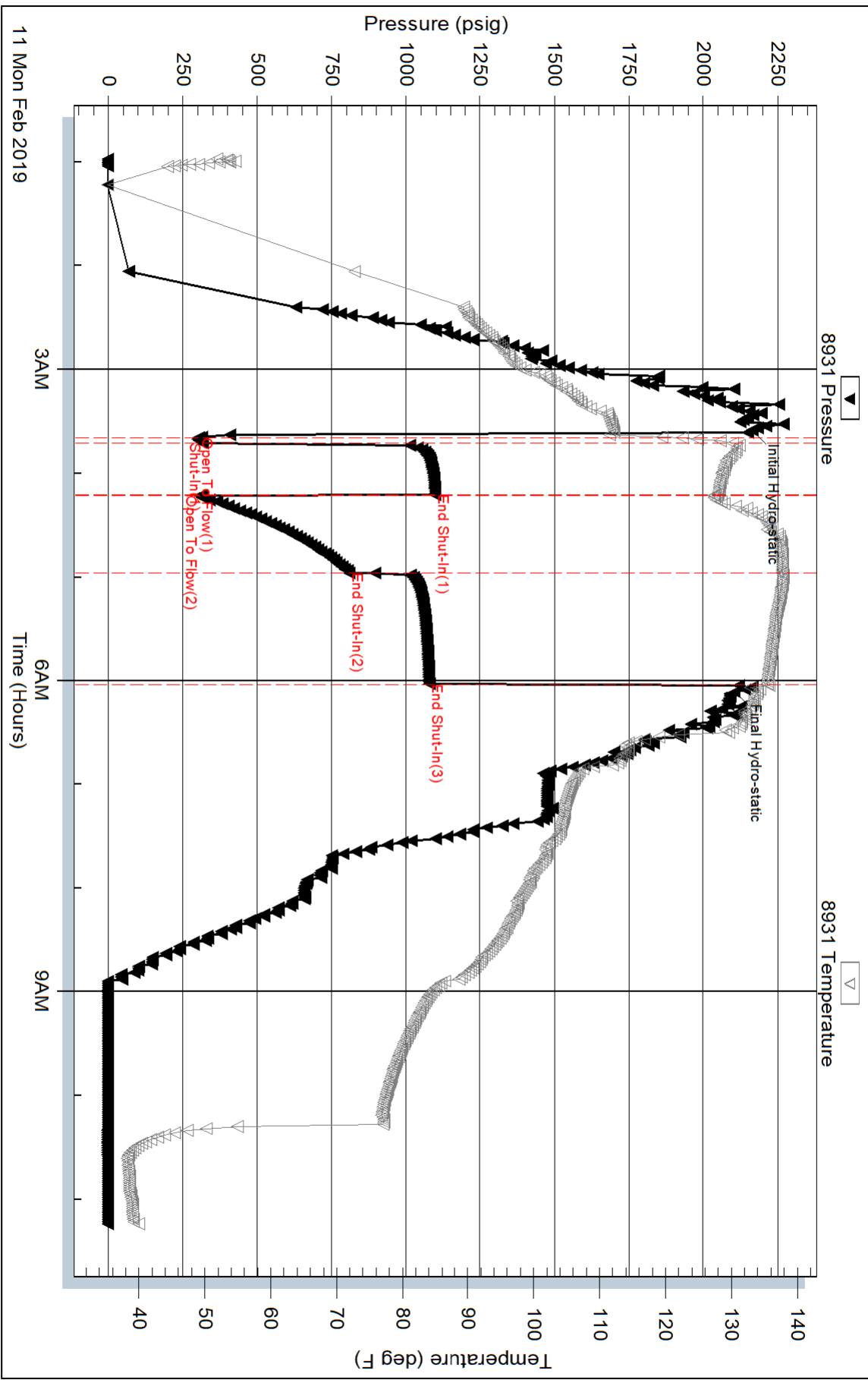
Laboratory Name:

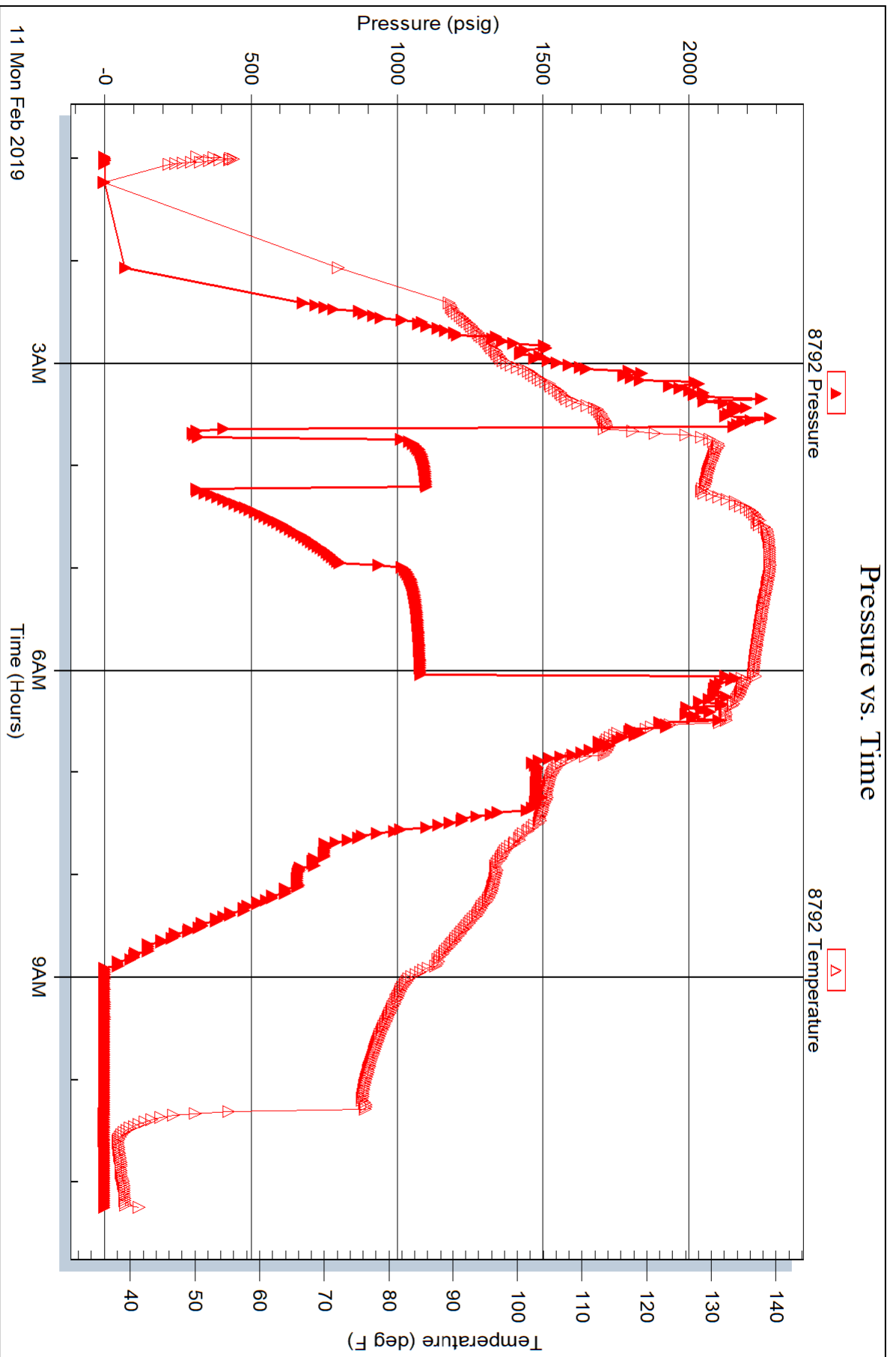
Laboratory Location:

Recovery Comments: RW is .91 @ 40 degrees = 11,000 Chlorides  
300 ML Water in sample Chamber.



### Pressure vs. Time





# LITHOLOGY STRIP LOG

## WellSight Systems

Scale 1:240 (5"=100') Imperial  
Measured Depth Log

Well Name: Carter-Barker No.13-34  
API: 15-151-22480  
Location: SE NW SW SW Sec.34-T27S-R12W, Pratt Co, KS  
License Number: \_\_\_\_\_ Region: \_\_\_\_\_  
Spud Date: 1/31/19 Drilling Completed: 2/12/19  
Surface Coordinates: 660'FSL 356'FWL  
Latitude 37.647903324/ Longitude -98.628020185  
Bottom Hole Coordinates:  
Ground Elevation (ft): 1811 K.B. Elevation (ft): 1816  
Logged Interval (ft): 3500 To: 4600 Total Depth (ft): 4600  
Formation: Lansing, Mississippian, Viola, Simpson  
Type of Drilling Fluid: Chemical

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

### OPERATOR

Company: K3 Oil and Gas Operating Company  
Address: 24900 Pitkin Road, Ste. 305  
The Woodlands, TX 77386  
832-813-8558

### GEOLOGIST

Name: Randy Say  
Company: RSay Enterprises  
Address: 13524 W. 67th Way  
Arvada, CO 80004  
303-940-8751

### Casing/ Data

8.625" Surface Casing set at 937'

Logging Program  
Halliburton Energy Services

Logs Interval  
Array Compensated True Resistivity  
Spectral Density Dual Spaced Neutron  
Microlog  
BHC-Sonic  
Annular Hole Volume

## DSTs

### DST No.1 3786-3875(89) Conventional Lansing H/J Test

IO: 5min; Open strong blow BOB in 1min, Built to 675"

ISl: 30min; Strong blow, GTS, Built to 22"

FO: 45min; Open strong blow, BOB immed, Built to 38"

FSl: 60min; Strong blow, Built to 48"

REC: 1632 GIP; Total Rec 2128' [1944 Gassy Oil (100% Oil); 64'OGCM (33% Gas/ 17% Oil/ 50% Mud); 60' MOCW (10% Oil/ 87% W/ 3% Mud); 60' MOCW (3% Oil/ 94% W/ 3% Mud)

Rw=0.04 @ 100F, CL=64,000ppm; 28.4 Gravity Oil

Sampler: 2000cc Total Rec [1000cc Gas/ 500cc Oil/ 500cc Water]

Rw=0.04 @ 21F CL=64,000ppm; 28.4 Gravity

IHP:1835; IFP 223-288; SIP 1302; FFP 340-757; FSIP 1277; FHP 1777

Gas Flow Rate with Choke = 0.13"

| Time(min) | Pressure | Gas Rate MCF/D |
|-----------|----------|----------------|
|-----------|----------|----------------|

|    |       |       |
|----|-------|-------|
| 10 | 12.39 | 10.03 |
|----|-------|-------|

|    |       |       |
|----|-------|-------|
| 20 | 27.81 | 15.80 |
|----|-------|-------|

|    |       |       |
|----|-------|-------|
| 30 | 36.76 | 19.15 |
|----|-------|-------|

|    |       |       |
|----|-------|-------|
| 40 | 46.93 | 22.96 |
|----|-------|-------|

|    |       |       |
|----|-------|-------|
| 45 | 53.47 | 25.40 |
|----|-------|-------|

### DST No.2 4036-4067(31) Conventional Marmaton Test

IO: 5min; Open weak 1" blow

ISl: 30min; No blow back

FO: 45min; No Blow

FSl: 60min; No blow back

REC: Total Rec 60' 100% Mud

Rw=NA CL=11,000ppm BHT=108F

Sampler: 300cc Total Rec 100% Mud

Rw=NA CL=11,000ppm

IHP:2025; IFP 32-33; SIP 75; FFP 34-40; FSIP 57; FHP 1918

### DST No.3 4110-4150(40) Conventional Mississippian Test

IO: 10min; Open strong blow, BOB in 3min, Built to 20"

ISl: 30min; Weak surf blow

FO: 45min; Open strong blow, BOB immed, Built to 96"

FSl: 60min; No blow back

REC: Total Rec 60' 100% Mud; 188GIP

Rw=NA CL=11,000ppm BHT=110F

Sampler: 100cc Total Rec 100% Mud; 1900cc Gas @ 100psi

Rw=NA CL=11,000ppm

IHP:1990; IFP 23-23; SIP 258; FFP 22-28; FSIP 1174; FHP 1998

### DST No.4 4388-4449(61) Conventional Simpson Test

IO: 5min; Open strong blow, BOB in 2min, Built to 31.25"

ISl: 30min; No blow back

FO: 45min; Open strong blow, BOB in 2min, Built to 162.51"

FSl: 60min; Weak blow back, built to 2.30"

REC: Total Rec 50' GIP; 1700' [60 (WCM 5%W/95%M); 60 (MCW (3%M/97%W); 640 (MCW (3%M/97%W); 940 WCM (20%W/80%M)]

Rw=0.91 @ 40F CL=11,000ppm F

Sampler: 300cc Total Rec 100% Water

Rw=0.91 @ 40F CL=11,000ppm

IHP:2164; IFP 303-317; SIP 1097; FFP 306-809; FSIP 1077; FHP 2105

Comments

### ROCK TYPES

- Anhy
- Bent
- Brec
- Cht
- Clyst

- Coal
- Congl
- Dol
- Gyp
- Igne

- Lmst
- Meta
- Mrlst
- Salt
- Shale

- Shcol
- Shgy
- Sltst
- Ss
- Till

### ACCESSORIES

#### FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite

- Plant
- Strom

#### MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp

- Hvymn
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

- Gyp
- Ls
- Mrlst
- Sltstrg
- Ssstrg

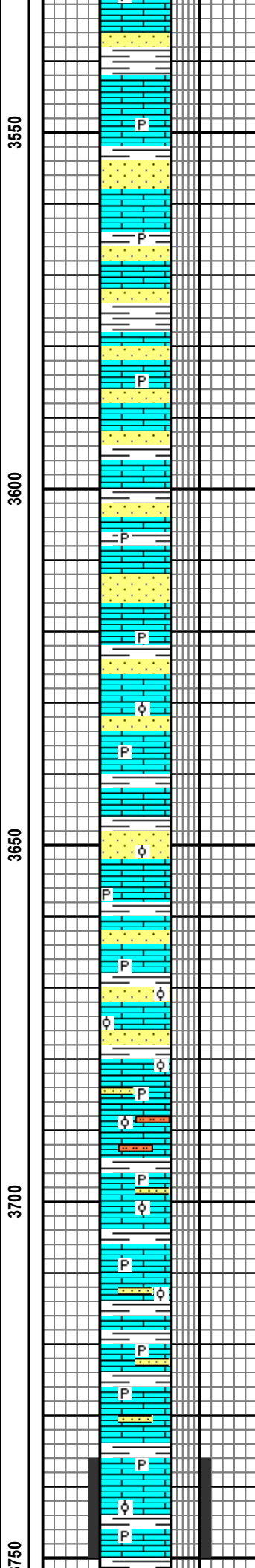
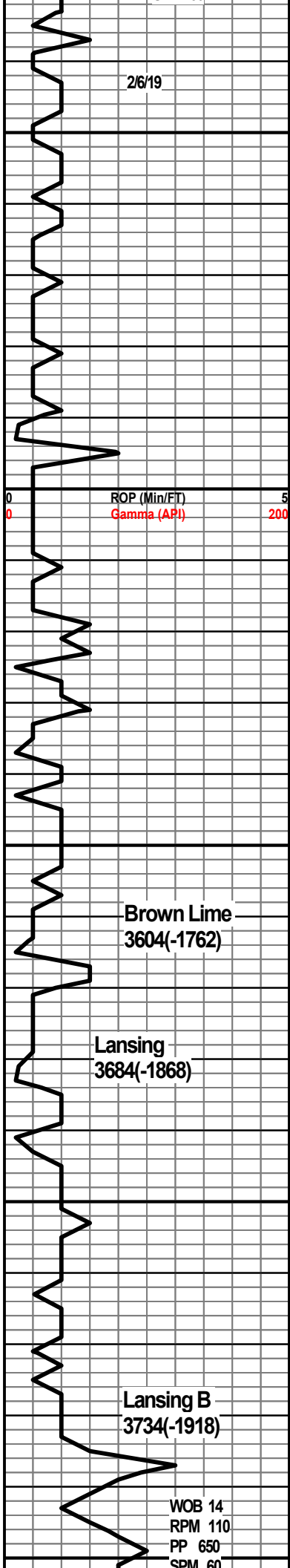
#### TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

#### STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol

| ROP/ENG DATA  |             | MD   | Porosity                       | Lithology | Grain Size | Oil Show | Geological Descriptions   | Total Gas (TG)  |
|---|-------------|------|--------------------------------|-----------|------------|----------|---|---|
| ROP (Min/FT)  | Gamma (API) |      |                                |           |            |          |   |   |
| 0   | 200         | 34   | 28%<br>20%<br>16%<br>10%<br>5% |           |            |          |   |   |
| ROP (Min/FT)<br>Gamma (API)                         |             |      |                                |           |            |          |   |   |
| NB3 7.875" STC<br>MDH1616 in @ 937                  |             | 3500 |                                |           |            |          |   |   |
|   |             |      |                                |           |            |          |   |   |
| 2/5/19<br><br>WOB 14<br>RPM 110<br>PP 700<br>SPM 60 |             |      |                                |           |            |          |   |   |
|   |             |      |                                |           |            |          | LS wh-ltgy fri chky text occ sifos por-p nsfoc<br><br>SH m-dkgy sft pty carb<br><br>SS tan firm fg sbrd tt crntd calc; por-ft nsfoc | W 8.7<br>V 65<br>WL 8.8<br>pH 11.0<br>cK 1<br>CL 6000<br>Ca 80<br>LCM #/BBL |



LS aa chky sifos por-p nsfoc w/ss strgs  
nsfoc

SH aa

tr pyr

SS ltgy firm fg sbird arg mtrx por-tt nsfoc

SS ltgy-wh vfg firm calc cmt arg por-p-tt  
nsfoc

SH mgy sft plty

tr pyr

LS wh-cm-ltgy fri-firm chky occ ool por-p-tt  
nsfoc

LS cm-ltgy-tan xfxl-litho fri chky incr ool  
w/calc infill por-tt nsfoc

SH aa

LS bm-occ tan/gy xfxl vhd dns blkly vfpvr;  
por-vtt nsfoc w/ltgy vf fri SS strgs

LS bm-gy xfxl vhd dns blkly vfpvr w/bk sh  
strgs; SS wh vf-fg firm por-vtt nsfoc

LS mot cm-gy xfxl-occ gran firm-fri mfo  
w/calc infill chk mtrx; vfpvr; por-fr-p; w/SS  
strgs aa

SH mgy sft plty slcarb pyr

LS mot tan/bm-gy xfxl firm-occ hd dns calc  
infill w/occ ool zones & chk mtrx; slpyr;  
por-p-tt nsfoc

LS mot tan-bm-mgy xfxl-occ gran fri-firm;  
ool zones; dkgy sh strgs & intbd ss strgs;  
por-fr-tt; oilstn-none; nsfoc

LS aa incr hd dns vfpvr por-tt nsfoc w/intbd  
ss/sltst strgs

SH m-dkgy sft plty arg vcarb

LS mgy-tan-wh firm-fri fos tr ool; por-p-tt  
nsfoc

SH m-dkgy plty firm vcarb slcalc

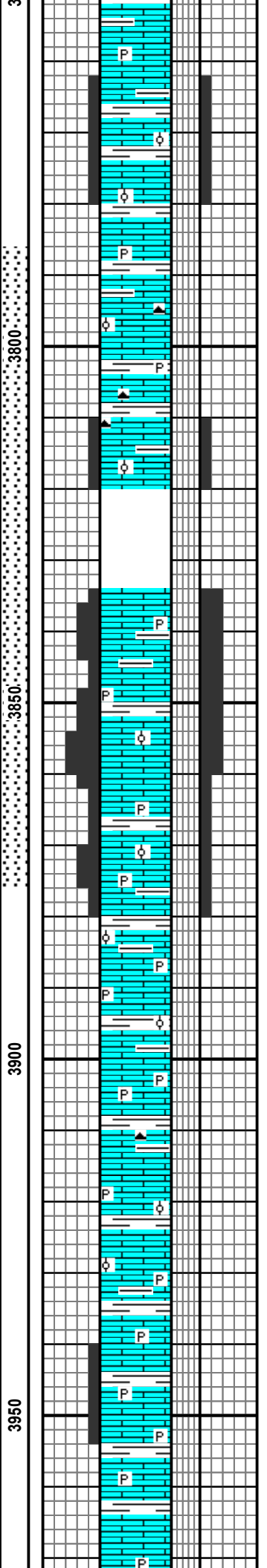
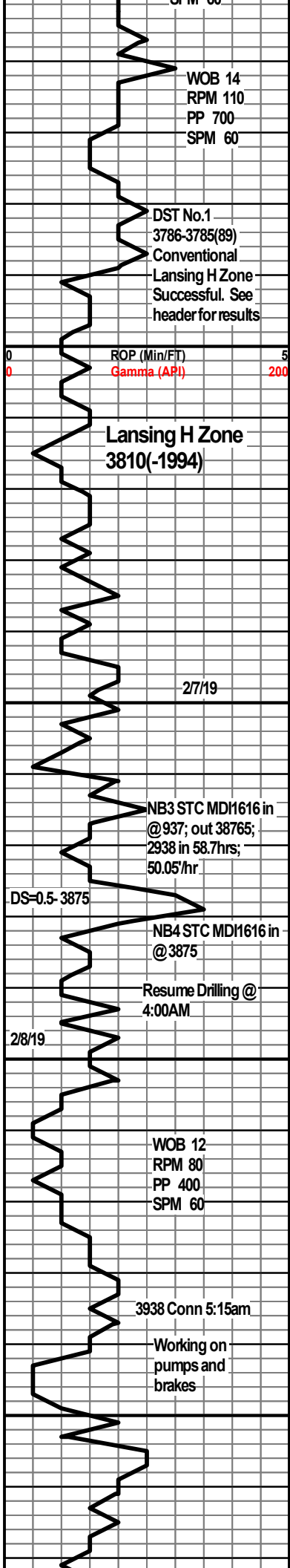
LS tan-wh fri chky occ sity w/ool strgs & occ  
gran text; por-p nsfoc

LS aa incr gran firm occ sifos & ool w/sh  
strgs; por-p nsfoc

**Show No.1 3736-3750(14)**

LS tan-ltgy fri-firm gran-xfxl sifos w/chky mtrx  
slpyr; sh strgs; por-p-fr; oilstn-none, oil odor  
in smpl; flor-10% ltyel; cut-10% ltyel;  
res-none

**Show No.1 3736-3750(14)**



LS aa incr fcs & slpyr w/tr ool; por-p nsfoc

**Show No.2 3762-3780(18)**

LS tan-ltgy gran-litho firm tr ool w/chk mtrx;  
slpyr; intbd wsh strgs; por-fr-p; oilstn-none;  
flor-tr ltyel; cut-tr slow mlky cut; res-none

LS aa w/occ sdy text tr ool w/intbd dk sh  
strgs tr pyr; por-p-tt nsfoc

SH strgs dkgy firm blkly carb

LS tan-ltgy-wh xfxl-gran firm-fri chky mtrx;  
decr amt ool tr fos w/calc infill; por-p nsfoc

**Show No.3 3810-3820(10)**

LS tan-bm xfxl firm gran tr ool & chk mtrx  
w/within bk sh strgs; por-p-occ fr(ool);  
oilstn-none; flor-10% pale yel; cut-10% slow  
mlky cut; res-none

**Show No.4 3834-3875(41)**

LS mot tan-wh gran-xfxl vfri-firm ool w/chk  
mtrx(vfri) occ suc & gran ls; slpyr w/bk sh  
strgs; por-fr-occ g(intergran-occ ool);  
oilstn-10% ltan spotted dkbm/bk w/tr  
scattered live oil droplets on fresh smpls,  
slight oil odor in smpl bag; flor-20% myel on  
smpls with oilstn; cut-20% immed strm myel  
cut on smpls w/oilstn, decr to mlky crush cut  
on intergran por without oilstn; res vis ltan  
res in dish w/ltan ring

LS wh-tan xfxl-gran fri-firm slool & fos; vchky  
mtrx; intbd dkgy sh strgs; por-fr-tt;  
oilstn-none; flor-tr ltyel; cut-tr slow mlky  
resudul cut; res-none

SH dkgy firm blkly vcarb slcalc

LS tan-ltgy-wh xfxl-gran firm-fri chky mtrx;  
decr amt ool; por-fr; nsfoc w/intbd dkgy sh  
strgs

SH decr amt mgy sft pty vcarb slty

LS tan-cm litho fri arg vchky w/tr ool slpyr;  
por-p-tt nsfoc

SH m-dkgy firm blkly carb

tr pyr

LS vitgy-tan-cm litho-gran fri tr fos & ool  
w/pyr; por-p nsfoc

LS ltgy-tan xfxl-litho firm chky gran text suc;  
sifos wsh strgs; por-p-fr nsfoc

SH m-dkgy firm blkly carb

tr pyr & cht

LS aa incr gran firm w/tr sh strgs; slpyr;

**Show No.2 3762-3780(18)**

No oil or gas odor

**Show No.3 3810-3820(10)**

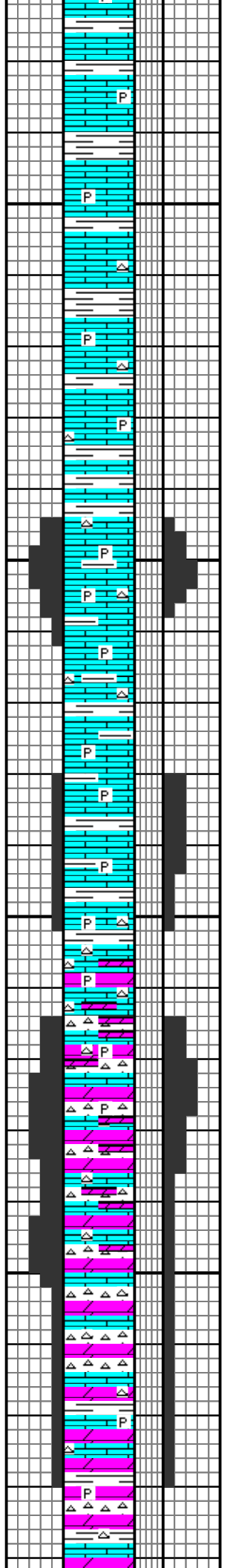
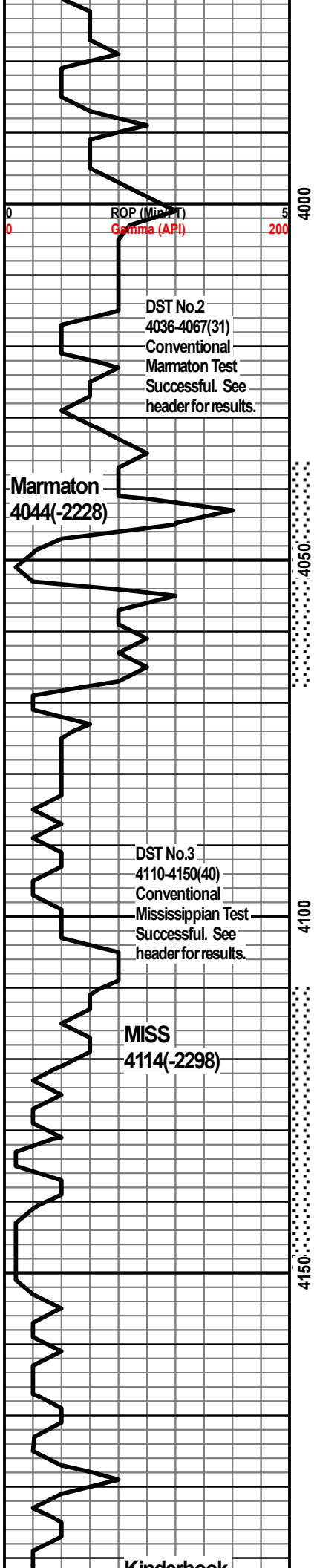
NOTE: 3820-3834 sample lost due to sample  
box malfunction

**Show No.4 3834-3875(41)**

Oil odor in samples

W 9.2  
V 47  
WL 8.8  
pH 10.0  
cK 1  
CL 6000  
Ca 80  
LCM 4##BBL

W 9.2  
V 43  
WL 12.0  
pH 9.0  
cK 1  
CL 11000  
Ca 80  
LCM 4##BBL



por-tt  
LS tan-mgy xfxl-gran fim-fri vsipyw wsh strgs; por-tt nsfoc

SH dkgy-bk mot fim blkly occ slty slcalc

LS mot ltgy-bm gran-xfxl fim-fri sifos tr cht & pyr; por-p nsfoc

LS aa incr mgy-ltan-crm xfxl fim-fri occ gran vfpwr tr cht; por-p-tt nsfoc

LS tan-ltgy-crm gran-litjho fri-fim slchky occ fos vfpwr w/incr in gy cht por-p-tt nsfoc

cht gy/wh ang

SH dkgy fim blkly carb

**Show No.5 4044-4054(10)**

LS wh-tan-gy gran-litho vri-fim; gran & suc w/chky text occ gy/wh cht; tr pyr; por-p-fr(intergran); oilstn-20% spotted bk-dkbn oilstn, occ tr live oilstn; flor-30% myel; cut-30% immed strm myel cut on cuttings with oilstn; res-flor res, vittan oilstn in dish; show below 4054 decr to tr flor & cut

LS gy-wh xfxl occ fos wvchky mtrx decr amt cht aa; por-p nsfoc

**Show No.6 4080-4102(22)**

LS bm/tan microxl-litho hd-fim-sifos w/ calc infill & vfpwr; intbd w/bm sh strgs; por-vtt-occ p(frac por?); oilstn-tr dkbn stn on surf of cuttings yielding a cut; flor-10% myel; cut-10% immed strm myel cut when oilstn present; res-ltan oilstn in dish

incr tr mlky/ltgy ang CHT w/DOL

**Show No.7 4114-4150(36)**

CHT mlky-ltgy ang; transl DOL tan/bm-wh xfxl-gran & suc fim-fri intbd w/ CHT & tan xfxl strgs LS chky mtrx; por-fr-occ g(intergran por) may be some frac por; oilstn-visible bm spotted oilstn & as bk asphaltic stn on surf of cuttings; flor-30% myel; cut-30% immed strm m-briyel w/10% yielding cut when crushed; res-ltan oilstn in dish & as tan ring; toward base of zone shows decr to 10% flor & cut & bk asph oilstn; abnt wh-mlky transl CHT intbd w/DOL/LS withshows

CHT mot wh/crm-ltgy vhd ang transl w/DOL/LS strgs tan-wh xfxl-gran vhd dns-fim chky occ pyr imbedded w/cht; por-fr-tt; oilstn-10% bk-dkbn asphaltic-occ tan oilstn on surface of cuttings, no live oil; flor-10% myel; cut-10% immed myel strm-slow mlky cut, decr w/depth; res-vittan res in dish

SH mgy-gygn-redbm sft

LS mot bm/tan crm-xfxl-gran fim-fri sifos

**Show No.5 4044-4054(10)**

W 9.4  
V 48  
WL 12.2  
pH 9.0  
cK 1  
CL 10000  
Ca 180  
LCM 4#BBL

**Show No.6 4080-4102(22)**

**Show No.7 4114-4150(36)**

W 9.4  
V 43  
WL 10.8  
pH 10.5  
cK 1  
CL 9000  
Ca 80  
LCM 4#BBL



**Kindermook**  
4198(-2382)

ROP (Min/FT)  
Gamma (API)

4200

4250

4300

4350

4400

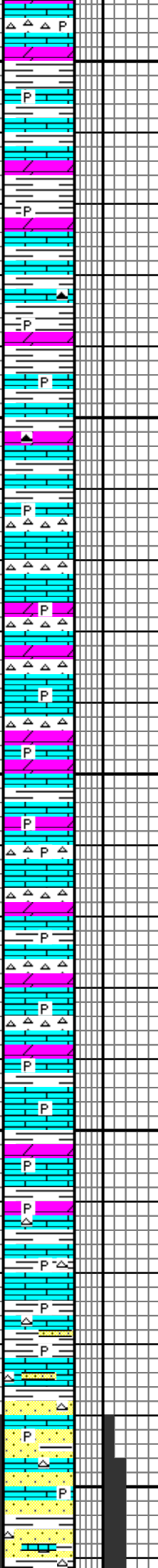
**Viola Limestone**  
4266(-2450)

DST No.4 4388-4449(61)  
Conventional Simpson  
Test Successful. See  
header for results.

**Simpson Sand**  
4390(-2574)

ROP (Min/FT)  
Gamma (API)

4400



LS mot brn/tan-cm xfxl-gran firm silos chky  
mtrx slpyr w/decr in amt mlky-wh CHT;  
por-p-tt nsfoc

SH mgy-redbm sft- firm blkly slty

LS mot cm-tan xxfxl-litho firm-occ hd sfos  
w/intbd sh strgs tr pyr; por-p-tt nsfoc

SH m-dkgy firm blkly

LS wh-mgy xfxl hd dns-fri occ chky w/pyr  
w/DOL tan por-p nsfoc; por-p-tt nsfoc

tr cht & pyr

LS mot ltgy-tan-cm xfxl-litho firm mfos  
w/chty & pyr w/intbd SH bk-mgy sft plty;  
por-p-tt nsfoc

LS aa w/incr amt DOL tan-gy gran firm suc  
text arg mtrx; por-p nsfoc

CHT mlky-wh vang hd w/within intbd strgs LS  
wh-mgy xfxl hd dns & tan gran dolo strgs;  
por-p nsfoc

tr pyr

CHT mlky-wh vang-hd dns w/within intbd LS  
aa & sh strgs; LS por-tt nsfoc

CHT aa incr mot wh/gy ang w/LS aa nsfoc

LS wh-ltan xfxl firm slty w/occ tr pyr & fos  
w/incr in DOL strgs mgy gran-litho firm suc  
arg por-p nsfoc

LS aa w/intbd DOL strgs & w/mlky CHT  
strgs; por-p-occ fr nsfoc

SH mgy-tan firm plty occ brit

CHT decr amt gy/wh ang mot

LS tan-bm xfxl-litho firm-hd slty slpyr w/DOL  
strgs aa gran mgy; por-p-fr nsfoc

LS aa decr amt; por-p nsfoc w/incr in SH  
m-dkgy firm plty-blky carb

SH m-dkgy firm blkly occ brit w/LS aa nsfoc

SH ltgy-gygn-mgy plty vsft-mushy varg  
w/incr in LS aa tan-bm xfxl hd dns vfpwr w/tr  
cht incr; LS por-p-tt nsfoc

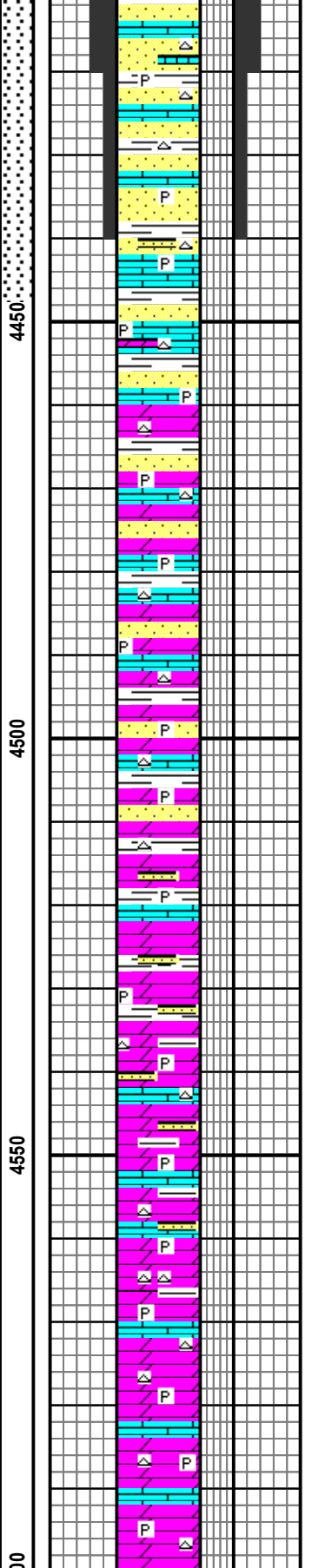
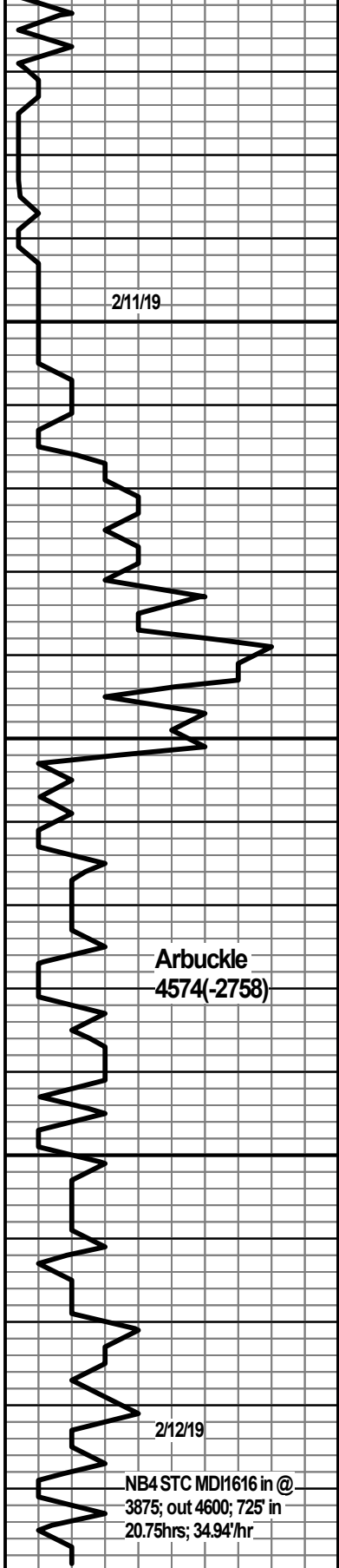
tr mlky vang CHT

LS mot m-ltgy-tan firm-fri & chky sfos  
w/intbd strgs SS tr ltgy slty w/SH vsft plty  
varg; nsfoc

**Show No.8 4390-4440(50)**

SS wh-tan-occ clr vfg-fg sbrd msrt; vfri-firm  
(when calc cmted); arg mtrx occ vfpwr  
w/strgs thin SH bk-tan sft; intbd LS tan-gy  
xfxl firm pyr; SS por-fr-g(when clus are  
clean); oilstn-20% clusters had bm speckled  
oilstn, no tr of live oil; flor-30%myel; cut-30%  
myel stm cut, 20% of ss clusters had bm  
speckled oilstn & gave an immed cfm myel

**Show No.8 4390-4440(50)**



speckled oilstn & gave an immed summyer cut, the tighter calc cmted clus had a slower ltyel cut; res-vpale ltan res in dish

SS aa incr slty vfg-occ fg sbrd fri-firm arg mtrx; incr pyr wintbd sh & LS strgs; tr cht; por-p-occ fr(decr w/calc cmt & arg mtrx); oilstn-10% decr to tr at base of zone, speckled bm oilstn, no live oil; flor-tr ltyel; cut-tr slow mlky cut; res-none

SS incr in smpl as tan-ltgy vfri vfg arg mtrx w/tr pyr intbd w/in LS & SH strgs; SS por-p-fr; nsfoc

DOL gran tan-gy vfri-firm arg mtrx vfpvr w/in cr amt gy-mlky cht wintbd SH & LS strgs; DOL por-p nsfoc

LS gy-lttan xfxl firm chky slfos pyr w/in cr amt DOL aa tan gran varg w/pyr & cht; por-p-fr nsfoc

DOL tan-mgy fri-hd gran-xfxl arg mtrx w/LS & SH strgs intbd DOL por-fr-tt nsfoc; incr tr cht

tr cht & pyrf

occ strgs ltgy vfg slty SS

SH gy-mot gygn/bm sft plty arg

DOL bm-ltgy gran-xfxl fri-hd arg mtrx grdg to ls tan fri chky DOL por-p nsfoc

occ thin strgs ltgy vfg/slty SS

DOL bm-tan xfxl-occ gran suc hd dns-firm wintbd LS strgs tn xfxl vpyr; DOL por-p-tt nsfoc

SH strgs dkgv firm blkv carb

LS mgy xfxl firm slfos pyr por-tt nsfoc

tr pyr & incr amt gy cht

DOL bm-ltgy gran-xfxl fri-firm pyr arg mtrx when suc wintbd tan LS strgs; DOL por-p-tt nsfoc

LS gy-wh xfxl firm vfpvr

DOL tan-bm-gy mot xfxl-occ gran suc arg mtrx wintbd LS strgs aa;incr cht; DOL por-p nsfoc

W 9.4  
V 47  
WL 12.4  
pH 10.5  
cK 1  
CL 9500  
Ca 80  
LCM ##/BBL

0 ROP (Min/FT) 5  
0 Gamma (API) 200  
Total Depth(Driller) 4600(-2784)  
Total Depth(ELog)

# *Brett's Consulting Service*

## Completions – Workovers – General Systems Setup

Brett Hildebrand 1104 Nixon Dr. Norton, Ks. 67654

Cell. - 785- 871- 7311

Office: 785- 877- 5331

Directions: East edge of Pratt, 6.4 mi. on 54 to 60<sup>th</sup> St., N. to stop sign, 100 yds. W., N. into

2/12/19

Carter-Barker #13-34 - Figured pipe tally - WW Drilling Rig #4 ran 98 jts. new MW 55,LS 5 1/2", 15.5# csg. - RTD = 4600', LTD = 4596' - landed guide shoe @4148' w/ insert @4108' - circ. f/ 1.5 hrs. w/ good circ. - RU QES Cementing - pumped 500 gal. mud flush & 20 bbl. KCL flush - plug rat hole w/ 30 sxs. - started cement, pumped 150 sxs. OWC Class A w/ 10% salt, 5# gilsonite, 5% gypseal & 2% gel - start dis. & plug, w/ 98 bbl. - landed plug @8:15 p.m. w/ 1500#, 800# lift & held - RD QES, landed in slips & released rig.

RTD: 4600', LTD: 4596', 5' KB

Csg: 5 1/2", 15.5# MW- 55 set @4148' w/ 150 sxs. OWC Class A 10% salt, 5# gilsonite, 5% gypseal & 2% gel.

Guide Shoe: 4148', Shoe Jt. = 40.00' w/ insert @4108'

Turbolizers: 4107', 4020', 3934', 3851', 3767', 3704', 3619', 3535', 3450' & 3365'

Basket: 4147'

2/28/19

Carter - Barker #13-34 - Started rigging up & rig broke dwn. - rigged back dwn. & took into Pratt f/ repairs - RU Excel Wireline & portable mast to run CBL & CCL, LTD @4098' & TOC @2787', bond looked good at zone - O&P Tucking delivered & unloaded 2 7/8" tbg. - Midwest delivered frac. tank - brought rig back to location & backed in - SDON. Est. cost = \$24,500

3/01/19

Carter - Barker #13-34 - MIRU Alliance Well Serv. - RU csg. swab & swabbed dwn. to 2700' FS - RU Excel Wireline & lubricator - tied into collars & perf. LKC "H" @3850-56', 4" HEC @4spf w/ 39 gr. charges - RD Excel - nipped dwn. master valve & RU prod. head - TIH w/ PKR & set @3817' - RU lubricator & swab - ran swab FL @2200' FS, 1800' FIH w/ 400' free oil on top & remainder of 1400' had oil/wtr. mix - swab dwn. to 30' FIH, rec. 9 BTF w/ 95% oil - start test:

1<sup>st</sup> hr. @2pph rec. 2.03 BTF, 250' FIH w/ 95% oil - shut in well & SDOWE.

2 day est. cost = \$35,200

3/04/19

Carter - Barker #13-34 - "H" 3850-56', PKR @3817' - tbg. press. = 300#, bled dwn. in 1 min., started flowing in 3 min. - flowed 30 min. & rec. 9 bbl. - ran swab FL @sur., swabbed dry in 3 runs, rec. 9 BTF - RU Pro Stim to treat w/ 500 gal. 15% MCA w/ 2% MAS - acid to bttm. = loaded 2.1 bbl. short, shut in 30 min. - opened valve & took 2 bbl., acid on bttm., shut in 30 min. - opened valve = 1.6 BPM, vac. - w/ 5 out = slowed to .3 BPM, vac., started pumping @  $\frac{3}{4}$  BPM, 75#, incr. to 1 BPM - w/ 8 out = 1 BPM, 275# - w/ 10 out = 1 BPM, 500# - w/ 12 out = 1 BPM, 700# - over flushed w/ 1 bbl. @800# - ISIP = 750#, 1 min. = 400#, 5 min. = 120# - 10 min. = vac. - let set 30 min. FL @200' FS - made 3 runs & started flowing, rec. 31 of 36 bbl. in 30 min. w/ 95% oil - start test:

1<sup>st</sup> hr. = flowing, rec. 45 BTF w/ 95% oil

2<sup>nd</sup> hr. = flowing, rec. 16.25 BTF w/ 95% oil

3<sup>rd</sup> hr. = flowing, rec. 14.00 BTF w/ 95% oil - shut in & SDON.

3 day est. cost = \$41,500

3/05/19

Carter - Barker #13-34 - "H" 3850-56', PKR @3817' - tbg. press. = 300#, blew dwn. in 2.75 min. & started flow to tank:

1<sup>st</sup> hr. flowing, rec. 32 BTF w/ 95% oil

2<sup>nd</sup> hr. flowing, rec. 12 BTF w/ 95% oil

3<sup>rd</sup> hr. flowing, rec. 10 BTF w/ 95% oil

4<sup>th</sup> hr. flowing, rec. 8 BTF w/ 95% oil - installed choke & set to 13/64ths

1<sup>st</sup> hr. flowing to tank, rec. 1 BTF, tbg. press. 40#

2<sup>nd</sup> hr. stopped flowing, 0 tbg. press. - opened choke to 36/64ths

1<sup>st</sup> hr. flowing to tank, rec. 15 BTF w/ 95% oil

2<sup>nd</sup> hr. stopped flowing - shut in & SDON. 4 day est. cost = \$45,850

3/06/19

Carter - Barker #13-34 - "H" 3850-56', PKR @3817' - tbg. press. = 225#, blew dwn. in 1.75 min., fluid to sur. - flow test f/ 1 hr., rec. 5 BTF w/ 95% oil - RU Pro Stim to retreat w/ 1,000 gal. 15% NE w/ 2% MAS - acid on bttm. = 1.2 BPM, vac. - w/ 6 out = 1.3 BPM, vac. - w/ 12 out = 1.3 BPM, vac. - w/ 24 out - 1.3 BPM, vac. - let set 30 min., ran swab FL @800' FS - made 4 runs & well kicked off & rec. 65 BTF in 1 hr., 5 bbl. over load w/ 90% oil - started test w/ 36/64 choke:

1<sup>st</sup> hr. @36/64, rec. 20 BTF, tbg. = 70# w/ 95% oil

2<sup>nd</sup> hr. @24/64, rec. 20 BTF, tbg. = 80# w/ 95% oil

3<sup>rd</sup> hr. @10/64, rec. 5 BTF, tbg. = 60# w/ 95% oil

4<sup>th</sup> hr. @11/64, rec. 7 BTF, tbg. = 80# w/ 95% oil

5<sup>th</sup> hr. @11/64, rec. 8 BTF, tbg. = 60# w/ 95% oil - shut in & SDON.

5 day est. cost = \$52,500

3/07/19

Carter - Barker #13-34 - "H" 3850-56', PKR @3817' - tbg. press. = 300#, open to flow @11/64, 12 min. to fluid - start test:

1<sup>st</sup> hr. = 10 BTF, tbg. = 145#, 95% oil

2<sup>nd</sup> hr. = 11 BTF, tbg. = 110#

3<sup>rd</sup> hr. = 10 BTF, tbg. = 70#

4<sup>th</sup> hr. = 15 BTF, tbg. = 70#

5<sup>th</sup> hr. = 7 BTF, tbg. = 60#

6<sup>th</sup> hr. = 8 BTF, tbg. = 80#

7<sup>th</sup> hr. = 5 BTF, tbg. = 80#

8<sup>th</sup> hr. = 15 BTF, tbg. = 110#

9<sup>th</sup> hr. = 5 BTF, tbg. = 100#

10<sup>th</sup> hr. = 5 BTF, tbg. = 0 - shut in well & SDON.







**REMIT TO**  
 QES Pressure Pumping LLC  
 Dept:970  
 P.O.Box 4346  
 Houston, TX 77210-4346

MAIN OFFICE

P.O.Box884  
 Chanute, KS 66720  
 620/431-9210, 1-800/467-8676  
 Fax 620/431-0012

Invoice

Invoice# 900111

Invoice Date: 02/14/19

Terms: Net 30

Page 1

K3 OIL & GAS OPERATING COMPANY

24900 Pitkin Road, Ste. 305  
 The Woodlands TX 77386  
 USA  
 833-813-8558

CANTER-BANKER 13-34  
 15-151-22480-00-00

| Part No | Description                                | Quantity | Unit Price | Discount(%) | Total    |
|---------|--|----------|------------|-------------|----------|
| CE0450  | Cement Pump Charge 0 - 1500'               | 1.000    | 1,500.0000 | 35.000      | 975.00   |
| CE0002  | Equipment Mileage Charge - Heavy Equipment | 60.000   | 7.1500     | 35.000      | 278.85   |
| CE0001  | Equipment Mileage Charge - Light Equipment | 60.000   | 3.0000     | 35.000      | 117.00   |
| CE0710  | Cement Delivery Charge                     | 654.000  | 1.7500     | 35.000      | 743.93   |
| CE0710  | Cement Delivery Charge                     | 636.000  | 1.7500     | 35.000      | 723.45   |
| CE0711  | Minimum Cement Delivery Charge             | 1.000    | 660.0000   | 35.000      | 429.00   |
| CC5828  | Lite-Weight Blend IV (65:35:6), 3% CaCl    | 250.000  | 19.5000    | 35.000      | 3,168.75 |
| CC5800A | Class A Cement - Sack                      | 255.000  | 20.0000    | 35.000      | 3,315.00 |
| CC5325  | Calcium Chloride                           | 750.000  | 1.2500     | 35.000      | 609.38   |
| CC5965  | Bentonite                                  | 450.000  | 0.3000     | 35.000      | 87.75    |
| CC6075  | Celloflake                                 | 200.000  | 2.0000     | 35.000      | 260.00   |
| CC6079  | PhenoSeal Formica Flakes                   | 280.000  | 1.3500     | 35.000      | 245.70   |
| CP8453  | 8 5/8" Aluminum Baffle Plate               | 1.000    | 162.0000   | 35.000      | 105.30   |
| CP8181  | 8 5/8" Top Rubber Plug                     | 1.000    | 185.0000   | 35.000      | 120.25   |

Company \_\_\_\_\_  
 Well Name Carls Baker  
 Well Account 9210  
 Approval JG





PRESSURE PUMPING LLC  
PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

Don McCullick  
2-2-19

11775  
40097

API # 15-151-22480-00-00

TICKET NUMBER 54366  
LOCATION El Dorado, KS  
FOREMAN FuzzY

FIELD TICKET & TREATMENT REPORT  
CEMENT

Invoice # 90011

125

| DATE                           | CUSTOMER # | WELL NAME & NUMBER  | SECTION | TOWNSHIP | RANGE   | COUNTY |
|--------------------------------|------------|---------------------|---------|----------|---------|--------|
| 2-2-19                         | 4462       | Carter Banker 13.34 | 34      | 27       | 12      | Pratt  |
| CUSTOMER                       |            |                     | TRUCK # | DRIVER   | TRUCK # | DRIVER |
| K3 Oil + Gas Operating Co. Inc |            |                     | 760     | Jud      | 713     | Jacob  |
| MAILING ADDRESS                |            |                     | 775     | Jimmy    |         |        |
| 24900 Pittkin Rd Suite 305     |            |                     | 713     | COY      |         |        |
| CITY STATE ZIP CODE            |            |                     | 725     | FuzzY    |         |        |
| The Woodlands TX 77386         |            |                     |         |          |         |        |

JOB TYPE surface HOLE SIZE 17 1/4 HOLE DEPTH 937' CASING SIZE & WEIGHT 8 5/8 23 #  
 CASING DEPTH 937' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 12.5-14.5 SLURRY VOL 146.7 WATER gal/sk 10.9-6.9 CEMENT LEFT in CASING 412 3/4  
 DISPLACEMENT 57 bbl DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting on well #4 Rig up and establish circulation  
 Pump 5 bbl dye water, mix 250 lbs 65/35 pos 690cc, 390cc, 3/4" poly flake; 1/2" phenosul pack, drop plug and displace 59 bbl, 400' lift press, land plug @ 600' and shut in,  
 cemented circulate approx 20 bbl to pit, cement run back approx 120' mix 30 lbs class 'A' 390cc 1 1/2" phenosul and circulate to surface  
 Baffle plate Top of shoe JT  
 Centralizers middle #1 - #6 - #11

Thanks FuzzY & crew

| ACCOUNT CODE | QUANTITY or UNITS | DESCRIPTION of SERVICES or PRODUCT      | UNIT PRICE         | TOTAL               |
|--------------|-------------------|---|--------------------|---------------------|
| 660450       | 1                 | PUMP CHARGE                             | 1500 <sup>00</sup> | 1500 <sup>00</sup>  |
| 660002       | 60                | MILEAGE                                 | 7.15               | 429 <sup>00</sup>   |
| 660001       | 60                | Pu mileage                              | 3 <sup>00</sup>    | 180 <sup>00</sup>   |
| 660710       | 10.9 Ton          | Ton mileage Delivery                    | 1.25               | 1144 <sup>50</sup>  |
| 660710       | 10.6 Ton          | Ton mileage Delivery 2nd tank           | 1.25               | 1123 <sup>00</sup>  |
| 660711       | minimum           | Ton mileage Delivery 3rd tank           | 660 <sup>00</sup>  | 660 <sup>00</sup>   |
| 665928       | 250 lbs           | Lite weight Blend 4 (65/35 690cc 390cc) | 19 <sup>50</sup>   | 4875 <sup>00</sup>  |
| 665800A      | 255 lbs           | Class 'A'                               | 20 <sup>00</sup>   | 5100 <sup>00</sup>  |
| 665325       | 750 #             | Calcium chloride                        | 1.25               | 937 <sup>50</sup>   |
| 665969       | 450 #             | Bentonite                               | .30                | 135 <sup>00</sup>   |
| 66075        | 200 #             | Poly-flake                              | 2 <sup>00</sup>    | 400 <sup>00</sup>   |
| 66079        | 280 #             | Pheno-sul                               | 1.35               | 378 <sup>00</sup>   |
| CP8453       | 1                 | 8 5/8 Alum Baffle Plate                 | 162 <sup>00</sup>  | 162 <sup>00</sup>   |
| CP8181       | 1                 | 8 5/8 rubber plug                       | 185 <sup>00</sup>  | 185 <sup>00</sup>   |
| CP8556       | 3                 | 8 5/8 centralizers                      | 110 <sup>00</sup>  | 330 <sup>00</sup>   |
|              |                   | subtotal                                |                    | 17529 <sup>00</sup> |
|              |                   | discount 35%                            |                    | 6135 <sup>15</sup>  |
|              |                   | subtotal                                |                    | 11393 <sup>85</sup> |
|              |                   | SALES TAX                               |                    | 1070.45             |
|              |                   | ESTIMATED TOTAL                         |                    | 12064.31            |

Revin 0737

AUTHORIZATION Duff Duff TITLE \_\_\_\_\_ DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



PRESSURE PUMPING LLC  
PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

API # 15-151-22480-00-00

**FIELD TICKET & TREATMENT REPORT  
CEMENT**

TICKET NUMBER 54366  
LOCATION EL Dorado, KS  
FOREMAN FuzzY

| DATE  | CUSTOMER # | WELL NAME & NUMBER  | SECTION | TOWNSHIP | RANGE | COUNTY |
|---|------------|---------------------|---------|----------|-------|--------|
| 2-2-19  |            | Cantor Banker 13.34 | 34      | 27       | 12    | Pratt  |
| CUSTOMER<br>K3 Oil + Gas Operating Co. Inc    |            |                     | TRUCK # |          |       |        |
| MAILING ADDRESS<br>24900 Pittkin Rd Suite 305 |            |                     | DRIVER  |          |       |        |
| CITY<br>The Woodlands                         |            |                     | TRUCK # |          |       |        |
| STATE<br>TX                                   |            |                     | DRIVER  |          |       |        |
| ZIP CODE<br>77386                             |            |                     | TRUCK # |          |       |        |
|   |            |                     | DRIVER  |          |       |        |

JOB TYPE Service HOLE SIZE 17 1/4 HOLE DEPTH 937' CASING SIZE & WEIGHT 8 1/8 23 #  
CASING DEPTH 937' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
SLURRY WEIGHT 12.5-14.5 SLURRY VOL 146.7 WATER gal/sk 10.9-6.9 CEMENT LEFT in CASING 42 3/4  
DISPLACEMENT 57 BBL DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting on well #4 Rig up and establish circulation  
Pump 5 BBL Dye water. Mix 250gks 65/35 pos 690cc, 390cc, 3/4" poly flake, 1/2" phenosol presk. Dip plug and displacer 59 BBL. 400" list press land plug 600" and shot in.  
Cement did circulate approx 20 BBL to pit, cement fill back approx 120' mix 20gks class 'A' 390cc 1 1/2" phenosol and circulate to surface  
Baffle plate Top of shoe JT  
Centralizers middle #1 - #6 - #11

Thanks FuzzY crew

| ACCOUNT CODE | QUANTITY or UNITS | DESCRIPTION of SERVICES or PRODUCT       | UNIT PRICE         | TOTAL               |
|--------------|-------------------|--|--------------------|---------------------|
| CE0450       | 1                 | PUMP CHARGE                              | 1500 <sup>00</sup> | 1500 <sup>00</sup>  |
| CE0002       | 60                | MILEAGE                                  | 7.15               | 429 <sup>00</sup>   |
| CE0001       | 60                | P U mileage                              | 3 <sup>00</sup>    | 180 <sup>00</sup>   |
| CE0710       | 10.9 Ton          | Ton mileage Delivery                     | 1.25               | 1144 <sup>50</sup>  |
| CE0710       | 10.6 Ton          | Ton mileage Delivery 2 <sup>nd</sup> pit | 1.25               | 113 <sup>00</sup>   |
| CE0711       | minimum           | Ton mileage Delivery 3 <sup>rd</sup> pit | 660 <sup>00</sup>  | 660 <sup>00</sup>   |
| CE5828       | 250gks            | Lite weight Blend 4 (65/35 690cc)        | 19 <sup>50</sup>   | 4875 <sup>00</sup>  |
| CE5800A      | 255gks            | class 'A'                                | 20 <sup>00</sup>   | 5100 <sup>00</sup>  |
| CE5325       | 750 <sup>#</sup>  | Calcium chloride                         | 1.25               | 937 <sup>50</sup>   |
| CE5965       | 450 <sup>#</sup>  | Bentonite                                | .30                | 135 <sup>00</sup>   |
| CE6075       | 200 <sup>#</sup>  | Poly-Flake                               | 2 <sup>00</sup>    | 400 <sup>00</sup>   |
| CE6079       | 280 <sup>#</sup>  | Phenosol                                 | 1.35               | 378 <sup>00</sup>   |
| CP8453       | 1                 | 8 1/8 Alum Baffle Plate                  | 162 <sup>00</sup>  | 162 <sup>00</sup>   |
| CP8181       | 1                 | 8 1/8 rubber plug                        | 185 <sup>00</sup>  | 185 <sup>00</sup>   |
| CP8556       | 3                 | 8 1/8 centralizers                       | 110 <sup>00</sup>  | 330 <sup>00</sup>   |
|              |                   | subtotal                                 |                    | 17629 <sup>00</sup> |
|              |                   | discount                                 |                    | 6170 <sup>15</sup>  |
|              |                   | subtotal                                 |                    | 11485 <sup>85</sup> |
|              |                   | SALES TAX                                |                    |                     |
|              |                   | ESTIMATED TOTAL                          |                    |                     |

AUTHORIZATION Duff Def TITLE \_\_\_\_\_ DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form



PRESSURE PUMPING LLC  
 PO Box 884, Chanute, KS 66720  
 620-431-9210 or 800-467-8676

APJ\* 15.151.22480.0000  
 1-31-19

TICKET NUMBER 54365  
 LOCATION El Dorado, KS  
 FOREMAN Fuzz4

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

| DATE  | CUSTOMER # | WELL NAME & NUMBER  | SECTION                       | TOWNSHIP | RANGE | COUNTY |
|---|------------|---------------------|-------------------------------|----------|-------|--------|
| 1-31-19                                       |            | CANTER-BANKER 13-34 | 34                            | 27       | 12    | Pratt  |
| CUSTOMER<br>K3 Oil & Gas Operating Co.        |            |                     | TRUCK # DRIVER TRUCK # DRIVER |          |       |        |
| MAILING ADDRESS<br>24900 Pitkin Rd suite 305  |            |                     | 760                           | Jud      |       |        |
| CITY STATE ZIP CODE<br>The Woodlands TX 77386 |            |                     | 775                           | Jimmy    |       |        |
|   |            |                     | 611                           | Chance   |       |        |
|   |            |                     | 725                           | Fuzz4    |       |        |

JOB TYPE Conductor HOLE SIZE 17 1/4 HOLE DEPTH 200' CASING SIZE & WEIGHT 1 3/8 .48 #  
 CASING DEPTH 208' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 14.2 SLURRY VOL 83.9 WATER gal/sk 6.5 CEMENT LEFT in CASING 25'  
 DISPLACEMENT 28.7 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting on well #4 Rig up and establish circulation  
 Pump 5 BBL Dye water, Mix 325 sacks class 'A' 300cc, 2 bags w  
 1/2" poly flake and 1" phenosol per sk. Displace 28 BBL and shut in  
 with 200\* press.

Cement did circulate approx 10 BBL to pt.  
 Thanks Fuzz4 + Crew

| ACCOUNT CODE | QUANTITY or UNITS | DESCRIPTION of SERVICES or PRODUCT | UNIT PRICE         | TOTAL               |
|--------------|-------------------|------------------------------------|--------------------|---------------------|
| CE0430       | 1                 | PUMP CHARGE                        | 1500 <sup>00</sup> | 1500 <sup>00</sup>  |
| CE0007       | 60 miles          | MILEAGE                            | 7.15               | 429 <sup>00</sup>   |
| CE0001       | 60                | Pu mileage                         | 3 <sup>00</sup>    | 180 <sup>00</sup>   |
| CE0710       | 10.6 Ton          | Ton mileage Delivery               | 17.5               | 1113 <sup>00</sup>  |
| CE0711       | 4.7 Ton           | Ton mileage (min) 2nd Truck        | 660 <sup>00</sup>  | 660 <sup>00</sup>   |
| CC5800A      | 325 sacks         | Class 'A'                          | 20 <sup>00</sup>   | 6500 <sup>00</sup>  |
| CC5325       | 900 #             | Calcium chloride                   | 122                | 1125 <sup>00</sup>  |
| CC5965       | 600 #             | Bentonite                          | 130                | 180 <sup>00</sup>   |
| CC6075       | 175 #             | Poly flake                         | 2 <sup>00</sup>    | 350 <sup>00</sup>   |
| CC6079       |                   | Phenosol                           | 1.32               | 438 <sup>12</sup>   |
|              |                   | subtotal                           |                    | 12475 <sup>12</sup> |
|              |                   | discount                           |                    | 4366 <sup>21</sup>  |
|              |                   | subtotal                           |                    | 8109 <sup>24</sup>  |
|              |                   | SALES TAX                          |                    |                     |
|              |                   | ESTIMATED TOTAL                    |                    |                     |

RAVIN 3737  
 AUTHORIZATION DJF TITLE \_\_\_\_\_ DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form

