



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1212231
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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 SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- 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 ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

| | | |
|-----------------------------------|-----------------|---|
| Spud Date or Recompletion Date | Date Reached TD | Completion Date or Recompletion Date |
|-----------------------------------|-----------------|---|

API No. 15 - _____

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
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1212231

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 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 | | | | |
| | | | | |

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 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)*

| Shots Per Foot | PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i> | Depth |
|----------------|---|--|-------|
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|----------------|-------|---------|------------|---|
| TUBING RECORD: | Size: | Set At: | Packer At: | Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No |
|----------------|-------|---------|------------|---|

| | |
|---|--|
| Date of First, Resumed Production, SWD or ENHR. | Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____ |
|---|--|

| Estimated Production Per 24 Hours | Oil Bbls. | Gas Mcf | Water Bbls. | Gas-Oil Ratio | Gravity |
|-----------------------------------|-----------|---------|-------------|---------------|---------|
| | | | | | |

| | | |
|--|---|---|
| DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i> | METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ | PRODUCTION INTERVAL: _____ _____ |
|--|---|---|

| | |
|-----------|-------------------------|
| Form | ACO1 - Well Completion |
| Operator | Roberts Resources, Inc. |
| Well Name | Robert G Larson 1-27 |
| Doc ID | 1212231 |

Tops

| Name | Top | Datum |
|--------------------|----------------|-------|
| Onaga Shale | 2590 | -1041 |
| Heebner Shale | 3520 | -1971 |
| Upper Douglas Sand | 3574 | -2025 |
| Lower Douglas Sand | 3685 | -2136 |
| Lansing | 3708 | -2159 |
| Stark Shale | 4038 | -2489 |
| Mississippi Chert | 4212 | -2663 |
| Viola | 4459 | -2910 |
| Simpson Sand | 4579 | -3030 |
| Arbuckle | Not Penetrated | |



| | | |
|------------------------|---------|--------------|
| PAGE | CUST NO | INVOICE DATE |
| 1 of 1 | 1003562 | 06/24/2014 |
| INVOICE NUMBER | | |
| 1718 - 91524578 | | |

Pratt (620) 672-1201
 B ROBERTS RESOURCES INC
 I 2020 N TYLER RD STE 106
 L WICHITA
 L KS US 67212
 T
 O **ATTN:** ACCOUNTS PAYABLE

J **LEASE NAME** Robert G Larson 1-27
 O **LOCATION**
 B **COUNTY** Barber
 S **STATE** KS
 I **JOB DESCRIPTION** Cement-New Well Casing/Pi
 T **JOB CONTACT**
 E

73550

| JOB # | EQUIPMENT # | PURCHASE ORDER NO. | TERMS | DUE DATE | |
|--|-------------|--------------------------------------|---------------|----------------------|------------------|
| 40736336 | 20920 | | Net - 30 days | 07/24/2014 | |
| For Service Dates: 06/22/2014 to 06/22/2014 | | | | | |
| 0040736336 | | | | | |
| 171810447A Cement-New Well Casing/Pi 06/22/2014 | | | | | |
| Cement 5 1/2" Longstring | | | | | |
| | | QTY | U of M | UNIT PRICE | INVOICE AMOUNT |
| AA2 Cement | | 440.00 | EA | 12.70 | 5,588.39 T |
| Celloflake | | 110.00 | EA | 2.76 | 304.07 T |
| C-41P | | 104.00 | EA | 2.99 | 310.80 T |
| Salt | | 2,003.00 | EA | 0.37 | 748.23 T |
| Cement Friction Reducer | | 125.00 | EA | 4.48 | 560.33 T |
| C-44 | | 415.00 | EA | 3.85 | 1,596.76 T |
| FLA-322 | | 208.00 | EA | 5.60 | 1,165.49 T |
| Super Flush | | 500.00 | EA | 1.83 | 915.21 T |
| Gilsonite | | 2,200.00 | EA | 0.50 | 1,101.24 T |
| Claymax KCL Substitute | | 5.00 | EA | 26.15 | 130.74 T |
| "Latch Down Plug & Baffle, 5 1/2" (Blu | | 1.00 | EA | 298.84 | 298.84 |
| "Auto Fill Float Shoe 5 1/2" (Blue)" | | 1.00 | EA | 268.96 | 268.96 |
| "Turbolizer, 5 1/2" (Blue)" | | 15.00 | EA | 82.18 | 1,232.73 |
| "5 1/2" Basket (Blue)" | | 2.00 | EA | 216.66 | 433.32 |
| "Unit Mileage Chg (PU, cars one way)" | | 35.00 | MI | 3.18 | 111.13 |
| Heavy Equipment Mileage | | 105.00 | MI | 5.23 | 549.13 |
| "Proppant & Bulk Del. Chgs., per ton mil | | 726.00 | EA | 1.64 | 1,193.28 |
| Depth Charge; 4001'-5000' | | 1.00 | EA | 1,882.71 | 1,882.71 |
| Blending & Mixing Service Charge | | 440.00 | BAG | 1.05 | 460.22 |
| Plug Container Util. Chg. | | 1.00 | EA | 186.78 | 186.78 |
| "Service Supervisor, first 8 hrs on loc. | | 1.00 | EA | 130.74 | 130.74 |
| PLEASE REMIT TO: | | SEND OTHER CORRESPONDENCE TO: | | SUB TOTAL | 19,169.10 |
| BASIC ENERGY SERVICES, LP | | BASIC ENERGY SERVICES, LP | | TAX | 888.12 |
| PO BOX 841903 | | 801 CHERRY ST, STE 2100 | | INVOICE TOTAL | 20,057.22 |
| DALLAS, TX 75284-1903 | | FORT WORTH, TX 76102 | | | |

ORDER OF THE
 BOARD OF DIRECTORS
 OF THE
 STATE OF CALIFORNIA
 COUNTY OF
 SACRAMENTO

WHEREAS, the above and entitled
 corporation is a corporation organized
 and existing under the laws of the
 State of California; and

12320

| | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|
| <p> the first and second sections of the constitution of the State of California; the first section of the act to amend the constitution of the State of California, approved at the general election held on the 5th day of November, 1901, and the first section of the act to amend the constitution of the State of California, approved at the general election held on the 5th day of November, 1901, and </p> | <p> the first section of the act to amend the constitution of the State of California, approved at the general election held on the 5th day of November, 1901, and </p> | <p> the first section of the act to amend the constitution of the State of California, approved at the general election held on the 5th day of November, 1901, and </p> | <p> the first section of the act to amend the constitution of the State of California, approved at the general election held on the 5th day of November, 1901, and </p> | <p> the first section of the act to amend the constitution of the State of California, approved at the general election held on the 5th day of November, 1901, and </p> | <p> the first section of the act to amend the constitution of the State of California, approved at the general election held on the 5th day of November, 1901, and </p> | <p> the first section of the act to amend the constitution of the State of California, approved at the general election held on the 5th day of November, 1901, and </p> | <p> the first section of the act to amend the constitution of the State of California, approved at the general election held on the 5th day of November, 1901, and </p> | <p> the first section of the act to amend the constitution of the State of California, approved at the general election held on the 5th day of November, 1901, and </p> | <p> the first section of the act to amend the constitution of the State of California, approved at the general election held on the 5th day of November, 1901, and </p> | <p> the first section of the act to amend the constitution of the State of California, approved at the general election held on the 5th day of November, 1901, and </p> | <p> the first section of the act to amend the constitution of the State of California, approved at the general election held on the 5th day of November, 1901, and </p> |
|---|--|--|--|--|--|--|--|--|--|--|--|

TREATMENT REPORT

| | | | | | | | |
|---|-----------|---------------------------------|--------------------|-----------------------|------------------------|-------------------------------|---------------------------|
| Customer Robert & Larson | Lease No. | Well # 1-27 | Lease # 6-22-14 | Date | Field Order # 18197 | Station # Pratt | Type Job Cm Lvs string |
| Customer Representative Kurt Roberts | | Station Manager Kevin Gubler | | Treater Mike Motta | | Legal Description 27-31-13 | |
| County Baldwin | | Depth 4640 | | Casing 5 1/2 | | Formation | |

| PIPE DATA | | PERFORMING DATA | | FLUID USED | | TREATMENT RESUME | |
|-----------------|-------|-----------------|----------|------------|---------|------------------|----------------|
| Casing Size | 5 1/2 | Tubing Size | Shots/Ft | Acid | 365 SWS | RATE | 1/4 CT |
| Depth | 4640 | From | To | Pre Pad | 120 SWS | Max | 10% SWS |
| Volume | 0.4 | From | To | Pad | | Min | 5 Min. 10% SWS |
| Max Press | 500 | From | To | Frac | | Avg | |
| Annulus Vol. | | From | To | HHP Used | | | |
| Well Connection | | From | To | Flush | 109 | | |
| Plug Depth | 4578 | From | To | Gas Volume | | | |
| Total Load | | | | | | | |

| | | | | | | | |
|---------------|-------|--------|------|---------|-------|------|---------------|
| Service Units | 37586 | Driver | MATT | Station | 20920 | Rate | 19958 / 19915 |
| Service Log | | Names | | | | | |

| Time | Pressure | Casing Pressure | Tubing Pressure | Bbls. Pumped | Rate | Service Log |
|---------|----------|-----------------|-----------------|--------------|------|---|
| 3:50 AM | | | | | | ON location / safety recording |
| 11:50 | | | | | | Ran 3/2 casing down on bottom of 9 + 35 |
| 1:40 | | | | | | Casing on bottom |
| 1:50 | | | | | | Hook up to casing / Brian like working |
| 2:48 | 50 | 50 | | 5 | 4 | Pump 5 3/8" H ₂ O |
| 2:50 | 50 | 50 | | 12 | 4 | Pump 12 3/8" Super Flush |
| 2:54 | 50 | 50 | | 5 | 4 | Pump 5 3/8" H ₂ O |
| 2:55 | 200 | 200 | | 88 | 5 | Mix 365 SWS AAZ cont |
| 3:15 | — | — | | 4 | 3 | Wash pump + line, treat plug |
| 3:19 | 50 | 50 | | — | 6 | Start displacement w. 2% KCL |
| 3:30 | 300 | 300 | | 64 | 5.5 | Light pressure |
| 3:39 | 800 | 800 | | 95 | 3.5 | Slow rate |
| 3:41 | 1500 | 1500 | | 109 | — | Plug down + treated + trip |
| 3:45 | — | — | | 7 | — | Plug at hole |
| | | | | | | etc. Then 500 |
| | | | | | | SOB COMPLETE |
| | | | | | | THANK YOU! |
| | | | | | | M. K. Motta |



| | | |
|-----------------|---------|--------------|
| PAGE | CUST NO | INVOICE DATE |
| 1 of 1 | 1003562 | 06/16/2014 |
| INVOICE NUMBER | | |
| 1718 - 91516938 | | |

Pratt (620) 672-1201
 B ROBERTS RESOURCES INC
 I 2020 N TYLER RD STE 106
 L WICHITA
 L KS US 67212
 T
 O ATTN: ACCOUNTS PAYABLE

J LEASE NAME Robert G. Larson 1-27
 O LOCATION
 B COUNTY Barber
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 E JOB CONTACT

71730

| JOB # | EQUIPMENT # | PURCHASE ORDER NO. | TERMS | DUE DATE |
|---|-------------|--------------------|---------------|-----------------|
| 40733454 | 20920 | | Net - 30 days | 07/16/2014 |
| For Service Dates: 06/12/2014 to 06/12/2014 | | | | |
| 0040733454 | | | | |
| 171810621A Cement-New Well Casing/Pi 06/12/2014 Cement 13 3/8" Surface | | | | |
| 60/40 POZ | | | 300.00 EA | 9.12 2,735.71 T |
| Celloflake | | | 75.00 EA | 2.81 210.88 T |
| Calcium Chloride | | | 774.00 EA | 0.80 617.59 T |
| "Unit Mileage Chg (PU, cars one way)" | | | 35.00 MI | 3.23 113.04 |
| Heavy Equipment Mileage | | | 70.00 MI | 5.32 372.36 |
| "Proppant & Bulk Del. Chgs., per ton mil | | | 452.00 EA | 1.22 549.57 |
| Depth Charge; 0-500' | | | 1.00 EA | 759.92 759.92 |
| Blending & Mixing Service Charge | | | 300.00 BAG | 1.06 319.17 |
| "Service Supervisor, first 8 hrs on loc. | | | 1.00 EA | 132.99 132.99 |

| | | | |
|---------------------------|-------------------------------|---------------|----------|
| PLEASE REMIT TO: | SEND OTHER CORRESPONDENCE TO: | SUB TOTAL | 5,811.23 |
| BASIC ENERGY SERVICES, LP | BASIC ENERGY SERVICES, LP | TAX | 254.84 |
| PO BOX 841903 | 801 CHERRY ST, STE 2100 | INVOICE TOTAL | 6,066.07 |
| DALLAS, TX 75284-1903 | FORT WORTH, TX 76102 | | |

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|---|-----------------|-------------------|----------------------|-----------------------------|
| Customer: <u>Roberts Resources Inc.</u> | | Lease No. | Date: <u>6-12-14</u> | |
| Lease: <u>Robert Cr Larson</u> | | Well #: | | |
| Field Order #: | Station: | Casing: | Depth: | County: |
| <u>10621 A</u> | <u>Pratt KS</u> | <u>13 3/8 48"</u> | <u>269</u> | <u>Barber KS</u> |
| Type Job: | Formation: | | | Legal Description: |
| <u>1 3/8 surface pipe CNW</u> | | | | <u>Sec 27 Twp 31 R13 15</u> |

| PIPE DATA | | PERFORATING DATA | | FLUID USED | | TREATMENT RESUME | | |
|-----------------|--------------|------------------|----|------------|-----------------|------------------|------------------|--|
| Casing Size | Tubing Size | Shots/Ft | | Acid | RATE | PRESS | ISIP | |
| <u>13 3/8</u> | | | | Pre Pad | Max <u>5.5</u> | <u>150</u> | 5 Min. | |
| Depth | Depth | From | To | Pad | Min <u>5</u> | <u>50</u> | 10 Min. | |
| <u>269</u> | | | | Frac | Avg <u>5.75</u> | <u>100</u> | 15 Min. | |
| Volume | Volume | From | To | | HHP Used | | Annulus Pressure | |
| <u>42.23</u> | | | | | | | | |
| Max Press | Max Press | From | To | Flush | Gas Volume | | Total Load | |
| <u>500 lbs</u> | | | | | | | | |
| Well Connection | Annulus Vol. | From | To | | | | | |
| <u>13 3/8</u> | | | | | | | | |
| Plug Depth | Packer Depth | From | To | | | | | |
| | | | | | | | | |

| | | | | | |
|--------------------------|---------------------|------------------|---------------------|----------|---------------------|
| Customer Representative: | <u>Kent Roberts</u> | Station Manager: | <u>Kevin Gurdly</u> | Treater: | <u>Scott Graves</u> |
| Service Units: | <u>28445</u> | <u>33708</u> | <u>19460</u> | | |
| Driver Names: | <u>Scott</u> | <u>Pat</u> | <u>Josh</u> | | |

| Time | Casing Pressure | Tubing Pressure | Bbls. Pumped | Rate | Service Log |
|--------------|-----------------|-----------------|--------------|------------|--|
| <u>9:00</u> | | | | | <u>On Location Rig up Safety meeting</u> |
| <u>12:35</u> | | | | | <u>Circulate well to pit</u> |
| <u>17:40</u> | <u>100</u> | | | <u>5</u> | <u>start pumping cement 14.8#</u> |
| <u>17:54</u> | <u>100</u> | | <u>64.65</u> | <u>5</u> | <u>stop pumping cement</u> |
| <u>17:54</u> | <u>50</u> | | <u>39.5</u> | <u>5.5</u> | <u>start pumping displacement</u> |
| <u>1:03</u> | <u>150</u> | | | | <u>Shut down Job complete</u> <u>Circulated Cement to Pit</u> |
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*Thank You
Pratt Cement*



DRILL STEM TEST REPORT

Prepared For: **Roberts Resources**

2020 N Tyler Ste 106
Wichita, KS 67212

ATTN: Kent Roberts

Robert G Larson 1-27

27-31S-13W Barber,KS

Start Date: 2014.06.15 @ 01:58:25

End Date: 2014.06.15 @ 08:22:55

Job Ticket #: 58996 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.06.24 @ 13:15:55



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Roberts Resources

27-31S-13W Barber,KS

2020 N Tyler Ste 106
Wichita, KS 67212

Robert G Larson 1-27

ATTN: Kent Roberts

Job Ticket: 58996

DST#: 1

Test Start: 2014.06.15 @ 01:58:25

GENERAL INFORMATION:

Formation: **Indian Cave**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:24:55

Time Test Ended: 08:22:55

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 74

Interval: 2574.00 ft (KB) To 2610.00 ft (KB) (TVD)

Reference Elevations: 1549.00 ft (KB)

Total Depth: 2610.00 ft (KB) (TVD)

1541.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 6798

Inside

Press@RunDepth: 523.93 psig @ 2575.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.15

End Date:

2014.06.15

Last Calib.:

2014.06.15

Start Time: 01:58:26

End Time:

08:22:55

Time On Btm:

2014.06.15 @ 04:24:40

Time Off Btm:

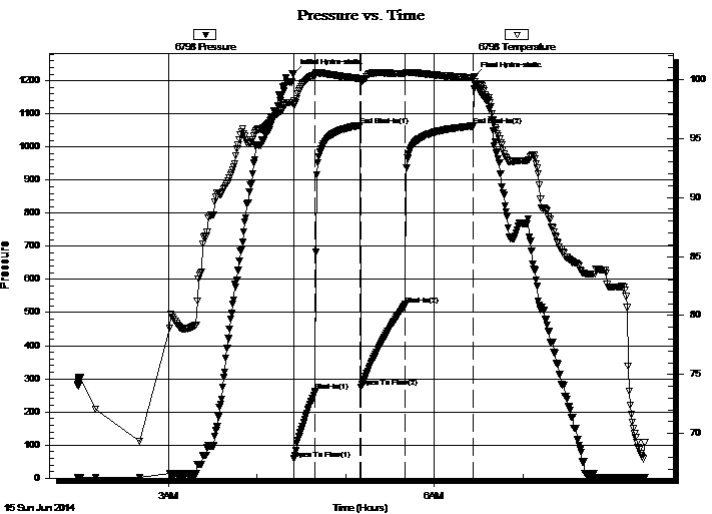
2014.06.15 @ 06:27:10

TEST COMMENT: IF: Strong Blow , BOB in 90 seconds

IS: No Blow Back

FF: Strong Blow , BOB in 2 minutes

FS: No Blow Back



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1222.33 | 98.19 | Initial Hydro-static |
| 1 | 58.10 | 97.82 | Open To Flow (1) |
| 15 | 263.04 | 100.36 | Shut-In(1) |
| 46 | 1065.24 | 100.08 | End Shut-In(1) |
| 46 | 273.76 | 99.80 | Open To Flow (2) |
| 76 | 523.93 | 100.48 | Shut-In(2) |
| 122 | 1063.13 | 100.14 | End Shut-In(2) |
| 123 | 1212.89 | 99.84 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------|--------------|
| 868.00 | Water | 8.11 |
| 102.00 | MCW 40%M 60%W | 1.05 |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Roberts Resources
2020 N Tyler Ste 106
Wichita, KS 67212
ATTN: Kent Roberts

27-31S-13W Barber,KS

Robert G Larson 1-27

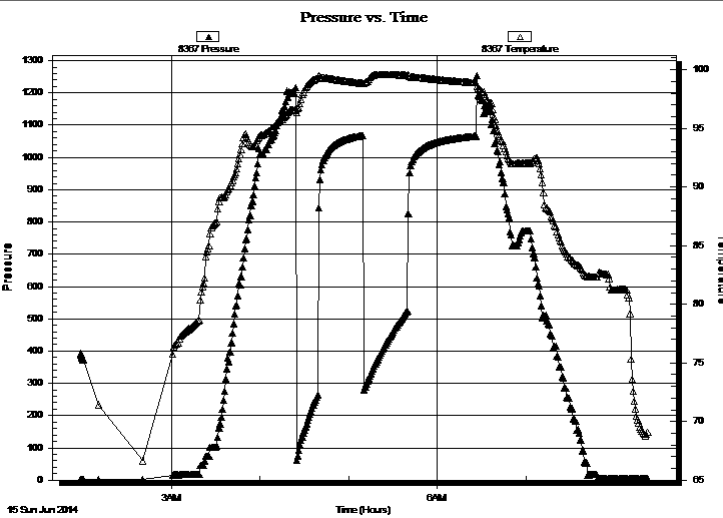
Job Ticket: 58996 **DST#: 1**
Test Start: 2014.06.15 @ 01:58:25

GENERAL INFORMATION:

Formation: **Indian Cave**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 04:24:55 Tester: Leal Cason
Time Test Ended: 08:22:55 Unit No: 74
Interval: 2574.00 ft (KB) To 2610.00 ft (KB) (TVD) Reference Elevations: 1549.00 ft (KB)
Total Depth: 2610.00 ft (KB) (TVD) 1541.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 8.00 ft

Serial #: 8367 Outside
Press@RunDepth: psig @ 2575.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.06.15 End Date: 2014.06.15 Last Calib.: 2014.06.15
Start Time: 01:58:26 End Time: 08:22:40 Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Strong Blow , BOB in 90 seconds
IS: No Blow Back
FF: Strong Blow , BOB in 2 minutes
FS: No Blow Back



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

| Recovery | | |
|-------------|---------------|--------------|
| Length (ft) | Description | Volume (bbl) |
| 868.00 | Water | 8.11 |
| 102.00 | MCW 40%M 60%W | 1.05 |
| | | |
| | | |
| | | |
| | | |

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Roberts Resources

27-31S-13W Barber,KS

2020 N Tyler Ste 106
Wichita, KS 67212

Robert G Larson 1-27

Job Ticket: 58996

DST#: 1

ATTN: Kent Roberts

Test Start: 2014.06.15 @ 01:58:25

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 2416.00 ft | Diameter: 3.25 inches | Volume: 24.79 bbl | Tool Weight: 2100.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 149.00 ft | Diameter: 2.25 inches | Volume: 0.73 bbl | Weight to Pull Loose: 36000.00 lb |
| | | | <u>Total Volume: 25.52 bbl</u> | Tool Chased ft |
| Drill Pipe Above KB: | 17.00 ft | | | String Weight: Initial 32000.00 lb |
| Depth to Top Packer: | 2574.00 ft | | | Final 34000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 36.00 ft | | | |
| Tool Length: | 62.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|----------------|
|------------------|-------------|------------|----------|------------|----------------|

| | | | | | |
|----------------|-------|------|---------|---------|-------------------------------|
| Shut In Tool | 5.00 | | | 2553.00 | |
| Hydraulic tool | 5.00 | | | 2558.00 | |
| Jars | 5.00 | | | 2563.00 | |
| Safety Joint | 2.00 | | | 2565.00 | |
| Packer | 5.00 | | | 2570.00 | 26.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 2574.00 | |
| Stubb | 1.00 | | | 2575.00 | |
| Recorder | 0.00 | 6798 | Inside | 2575.00 | |
| Recorder | 0.00 | 8367 | Outside | 2575.00 | |
| Perforations | 32.00 | | | 2607.00 | |
| Bullnose | 3.00 | | | 2610.00 | 36.00 Bottom Packers & Anchor |

Total Tool Length: 62.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Roberts Resources

27-31S-13W Barber,KS

2020 N Tyler Ste 106
Wichita, KS 67212

Robert G Larson 1-27

Job Ticket: 58996

DST#: 1

ATTN: Kent Roberts

Test Start: 2014.06.15 @ 01:58:25

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 8.00 lb/gal

Cushion Length:

ft

Water Salinity:

98000 ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 75000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|---------------|---------------|
| 868.00 | Water | 8.110 |
| 102.00 | MCW 40%M 60%W | 1.047 |

Total Length: 970.00 ft Total Volume: 4.771 bbl

Num Fluid Samples: 0

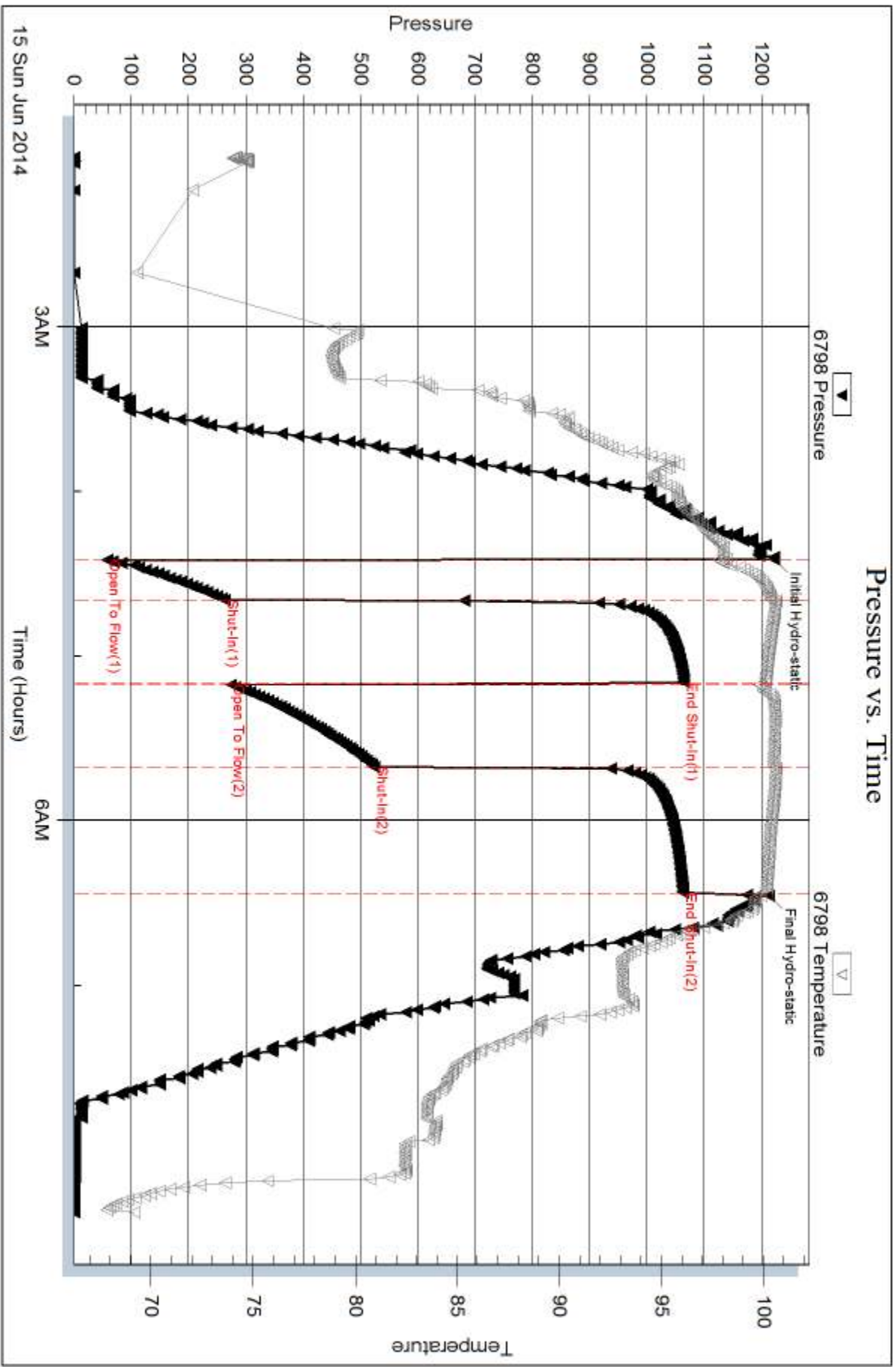
Num Gas Bombs: 0

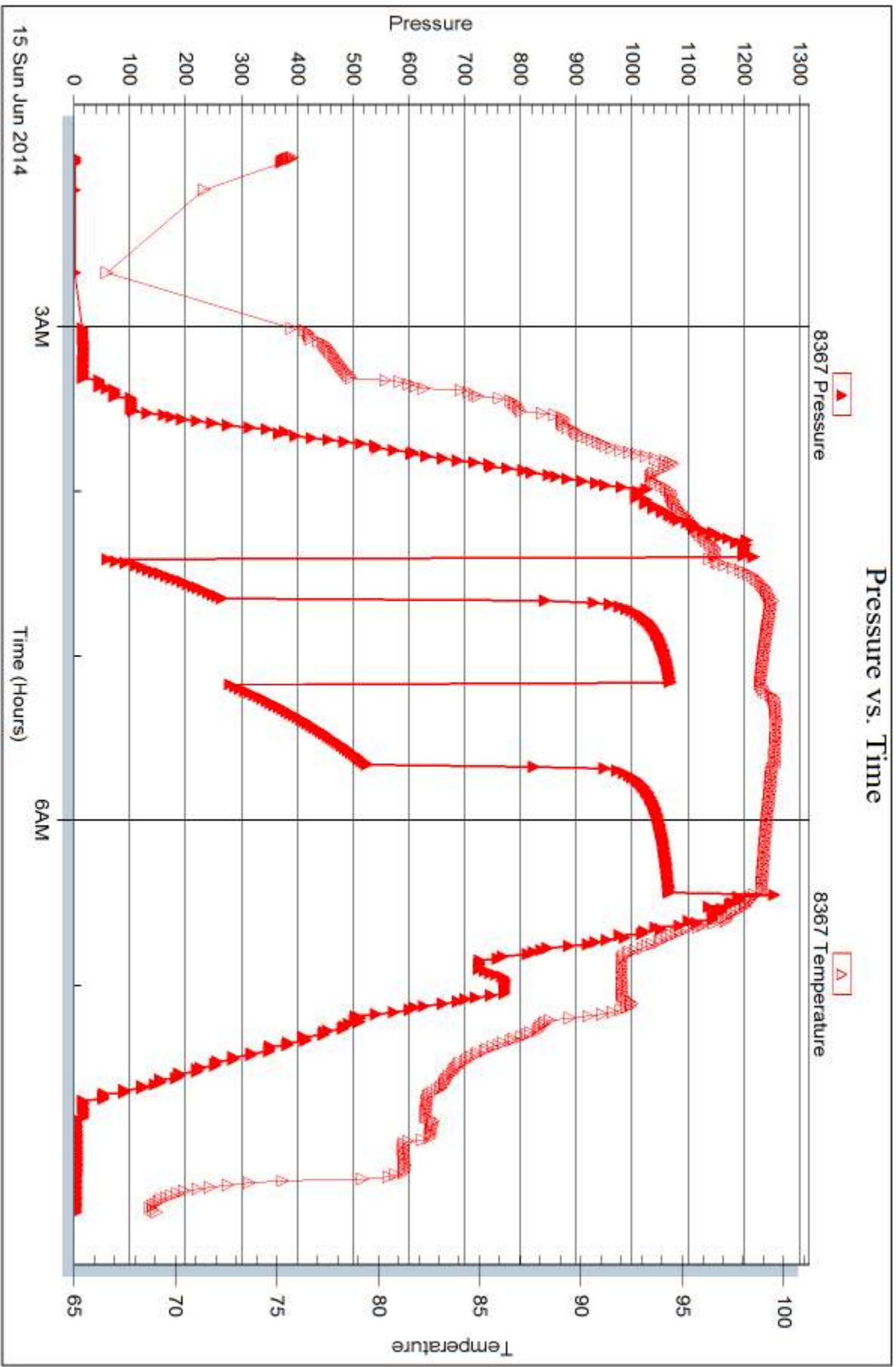
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW was .02 @ 61 degrees







DRILL STEM TEST REPORT

Prepared For: **Roberts Resources**

2020 N Tyler Ste 106
Wichita, KS 67212

ATTN: Kent Roberts

Robert G Larson 1-27

27-31S-13W Barber,KS

Start Date: 2014.06.17 @ 01:30:50

End Date: 2014.06.17 @ 09:26:05

Job Ticket #: 58997 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.06.24 @ 11:34:32

Roberts Resources

27-31S-13W Barber,KS

Robert G Larson 1-27

DST # 2

Deer Creek

2014.06.17



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Roberts Resources

27-31S-13W Barber,KS

2020 N Tyler Ste 106
Wichita, KS 67212

Robert G Larson 1-27

ATTN: Kent Roberts

Job Ticket: 58997

DST#: 2

Test Start: 2014.06.17 @ 01:30:50

GENERAL INFORMATION:

Formation: **Deer Creek**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:42:35

Time Test Ended: 09:26:05

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 74

Interval: 3323.00 ft (KB) To 3349.00 ft (KB) (TVD)

Reference Elevations: 1549.00 ft (KB)

Total Depth: 3349.00 ft (KB) (TVD)

1541.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 6798

Inside

Press@RunDepth: 523.77 psig @ 3324.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.17

End Date:

2014.06.17

Last Calib.:

2014.06.19

Start Time: 01:30:51

End Time:

09:26:05

Time On Btm:

2014.06.17 @ 03:41:05

Time Off Btm:

2014.06.17 @ 07:12:50

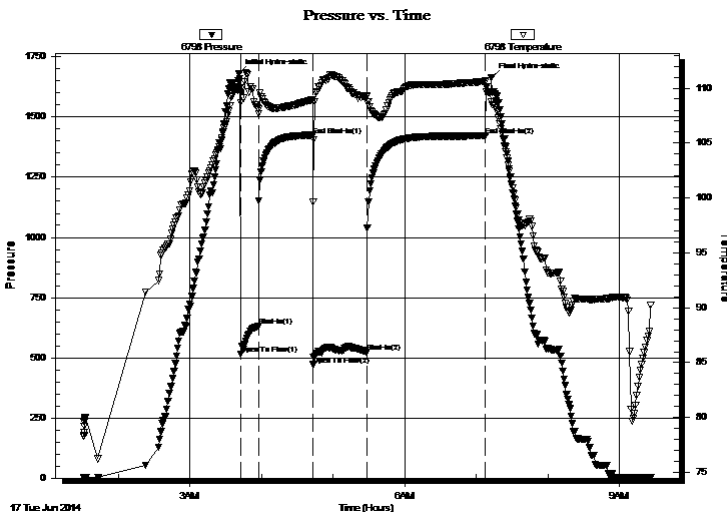
TEST COMMENT: IF: Strong Blow , BOB in 10 seconds, GTS in 4 minutes, Caught Sample & Gauged Gas

IS: 1" Blow Back

FF: Strong Blow , BOB & GTS Immediate, Gauged Gas

FS: 3" Blow Back

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1681.77 | 109.90 | Initial Hydro-static |
| 2 | 514.67 | 108.66 | Open To Flow (1) |
| 17 | 632.33 | 108.09 | Shut-In(1) |
| 62 | 1424.69 | 108.94 | End Shut-In(1) |
| 63 | 471.29 | 99.64 | Open To Flow (2) |
| 108 | 523.77 | 109.27 | Shut-In(2) |
| 207 | 1421.73 | 110.63 | End Shut-In(2) |
| 212 | 1663.36 | 108.80 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------------------|--------------|
| 0.00 | 2958 GIP | 0.00 |
| 122.00 | Water | 0.60 |
| 62.00 | MOCW 5%M 10%O 85%W | 0.49 |
| 176.00 | GMOCW 10%G 5%M 30%O 55%W | 1.81 |
| | | |
| | | |

Gas Rates

| | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|----------------|-----------------|------------------|
| First Gas Rate | 0.50 | 350.00 | - |
| Last Gas Rate | 0.75 | 82.00 | 1505.75 |
| Max. Gas Rate | 0.50 | 350.00 | - |

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Roberts Resources

27-31S-13W Barber,KS

2020 N Tyler Ste 106
Wichita, KS 67212

Robert G Larson 1-27

Job Ticket: 58997

DST#: 2

ATTN: Kent Roberts

Test Start: 2014.06.17 @ 01:30:50

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3169.00 ft | Diameter: 3.25 inches | Volume: 32.52 bbl | Tool Weight: 2100.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 149.00 ft | Diameter: 2.25 inches | Volume: 0.73 bbl | Weight to Pull Loose: 40000.00 lb |
| | | | <u>Total Volume: 33.25 bbl</u> | Tool Chased ft |
| Drill Pipe Above KB: | 21.00 ft | | | String Weight: Initial 38000.00 lb |
| Depth to Top Packer: | 3323.00 ft | | | Final 39000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 26.00 ft | | | |
| Tool Length: | 52.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|----------------|
|------------------|-------------|------------|----------|------------|----------------|

| | | | | | |
|----------------|-------|------|---------|---------|-------------------------------|
| Shut In Tool | 5.00 | | | 3302.00 | |
| Hydraulic tool | 5.00 | | | 3307.00 | |
| Jars | 5.00 | | | 3312.00 | |
| Safety Joint | 2.00 | | | 3314.00 | |
| Packer | 5.00 | | | 3319.00 | 26.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 3323.00 | |
| Stubb | 1.00 | | | 3324.00 | |
| Recorder | 0.00 | 6798 | Inside | 3324.00 | |
| Recorder | 0.00 | 8367 | Outside | 3324.00 | |
| Perforations | 22.00 | | | 3346.00 | |
| Bullnose | 3.00 | | | 3349.00 | 26.00 Bottom Packers & Anchor |

Total Tool Length: 52.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Roberts Resources

27-31S-13W Barber,KS

2020 N Tyler Ste 106
Wichita, KS 67212

Robert G Larson 1-27

Job Ticket: 58997

DST#: 2

ATTN: Kent Roberts

Test Start: 2014.06.17 @ 01:30:50

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 8.00 lb/gal

Cushion Length:

ft

Water Salinity: 170000 ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbf

Water Loss: in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 75000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbf |
|--------------|--------------------------|---------------|
| 0.00 | 2958 GIP | 0.000 |
| 122.00 | Water | 0.600 |
| 62.00 | MOCW 5%M 10%O 85%W | 0.492 |
| 176.00 | GMOCW 10%G 5%M 30%O 55%W | 1.806 |

Total Length: 360.00 ft Total Volume: 1.771 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW w as .05 @ 76.5 degrees



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Roberts Resources

27-31S-13W Barber,KS

2020 N Tyler Ste 106
Wichita, KS 67212

Robert G Larson 1-27

Job Ticket: 58997

DST#: 2

ATTN: Kent Roberts

Test Start: 2014.06.17 @ 01:30:50

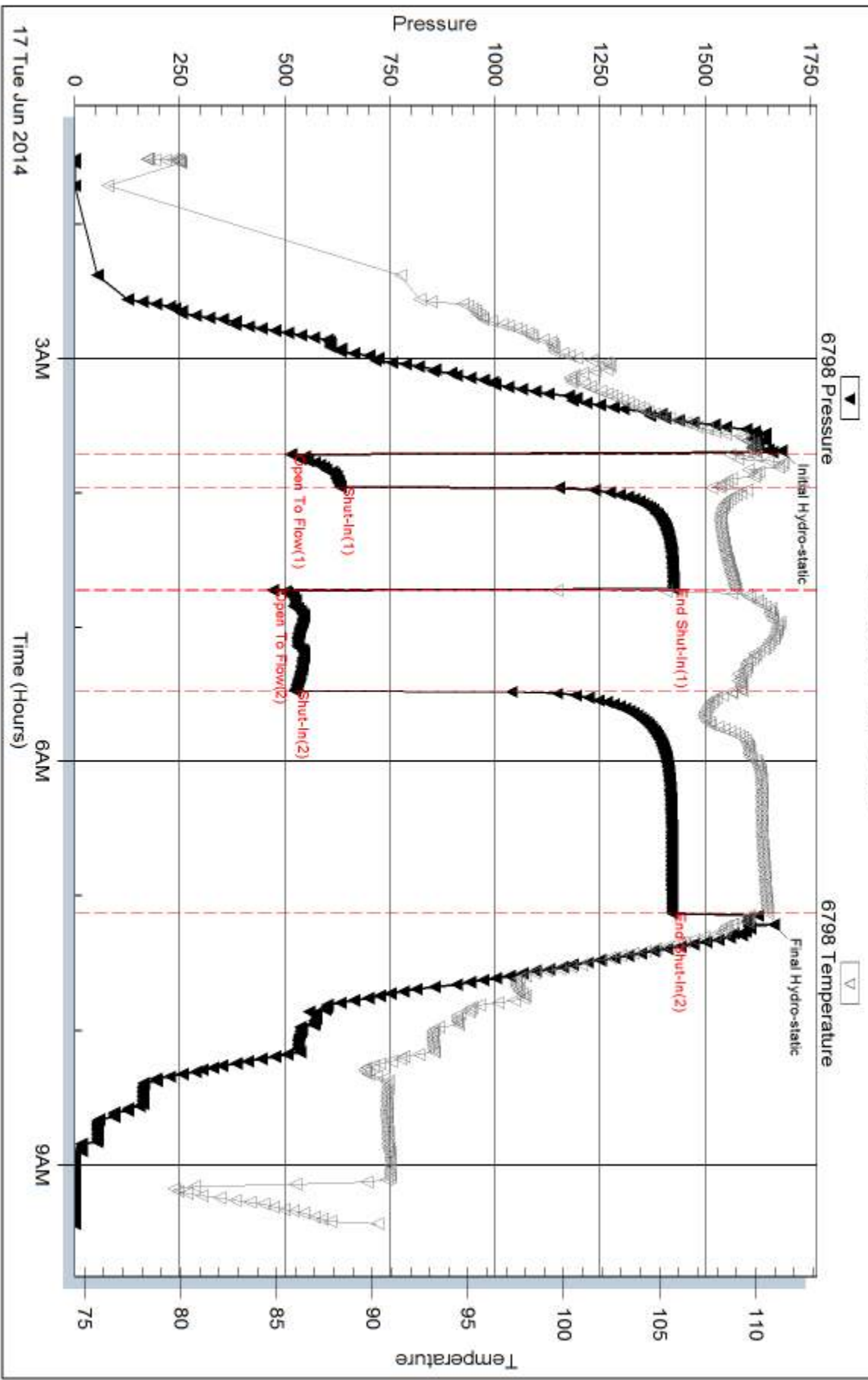
Gas Rates Information

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) |
|-------------|--------------|----------------|-----------------|------------------|
| 1 | 10 | 0.50 | 350.00 | -6743323.02 |
| 2 | 5 | 0.75 | 82.00 | 1505.75 |
| 2 | 10 | 0.75 | 88.00 | 1599.47 |
| 2 | 20 | 0.75 | 82.00 | 1505.75 |
| 2 | 30 | 0.75 | 82.00 | 1505.75 |
| 2 | 40 | 0.75 | 82.00 | 1505.75 |
| 2 | 45 | 0.75 | 82.00 | 1505.75 |

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Roberts Resources**

2020 N Tyler Ste 106
Wichita, KS 67212

ATTN: Kent Roberts

Robert G Larson 1-27

27-31S-13W Barber,KS

Start Date: 2014.06.19 @ 10:45:21

End Date: 2014.06.19 @ 19:22:36

Job Ticket #: 58998 DST #: 3

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

Printed: 2014.06.24 @ 13:10:19



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Roberts Resources

27-31S-13W Barber,KS

2020 N Tyler Ste 106
Wichita, KS 67212

Robert G Larson 1-27

ATTN: Kent Roberts

Job Ticket: 58998

DST#: 3

Test Start: 2014.06.19 @ 10:45:21

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:55:06

Time Test Ended: 19:22:36

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 74

Interval: 4184.00 ft (KB) To 4218.00 ft (KB) (TVD)

Reference Elevations: 1549.00 ft (KB)

Total Depth: 4218.00 ft (KB) (TVD)

1541.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 6798

Inside

Press@RunDepth: 338.75 psig @ 4195.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.19

End Date:

2014.06.19

Last Calib.:

2014.06.19

Start Time: 10:45:22

End Time:

19:22:36

Time On Btm:

2014.06.19 @ 13:49:06

Time Off Btm:

2014.06.19 @ 17:09:06

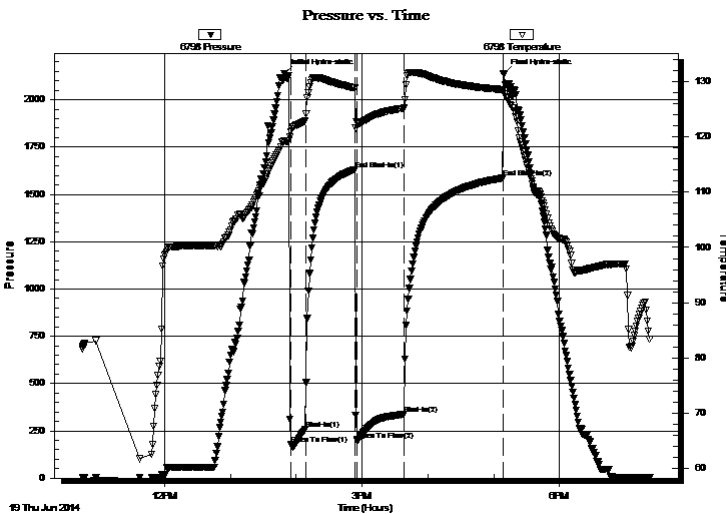
TEST COMMENT: IF: Strong Blow , BOB in 10 seconds, GTS in 8 minutes, Gauged Gas

IS: 1/2 inch Blow Back

FF: Strong Blow , BOB & GTS immediate, Gauged Gas

FS: 1 inch Blow Back

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2139.80 | 119.25 | Initial Hydro-static |
| 6 | 178.48 | 120.91 | Open To Flow (1) |
| 20 | 257.68 | 122.87 | Shut-In(1) |
| 65 | 1630.87 | 128.86 | End Shut-In(1) |
| 67 | 200.36 | 122.61 | Open To Flow (2) |
| 110 | 338.75 | 125.22 | Shut-In(2) |
| 200 | 1586.61 | 128.57 | End Shut-In(2) |
| 200 | 2138.79 | 131.24 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------------|--------------|
| 0.00 | GTS | 0.00 |
| 186.00 | Water | 1.11 |
| 248.00 | GMCW 10%G 30%M 60%W | 2.54 |
| 62.00 | GCM 20%G 80%M | 0.64 |
| | | |
| | | |

* Recovery from multiple tests

Gas Rates

| | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|----------------|-----------------|------------------|
| First Gas Rate | 0.25 | 100.00 | 181.49 |
| Last Gas Rate | 0.25 | 125.00 | 221.15 |
| Max. Gas Rate | 0.25 | 125.00 | 221.15 |



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Roberts Resources

27-31S-13W Barber,KS

2020 N Tyler Ste 106
Wichita, KS 67212

Robert G Larson 1-27

ATTN: Kent Roberts

Job Ticket: 58998

DST#: 3

Test Start: 2014.06.19 @ 10:45:21

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:55:06

Time Test Ended: 19:22:36

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 74

Interval: 4184.00 ft (KB) To 4218.00 ft (KB) (TVD)

Reference Elevations: 1549.00 ft (KB)

Total Depth: 4218.00 ft (KB) (TVD)

1541.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8367 Outside

Press@RunDepth: psig @ 4195.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.19

End Date:

2014.06.19

Last Calib.:

2014.06.19

Start Time: 10:45:22

End Time:

19:22:21

Time On Btm:

Time Off Btm:

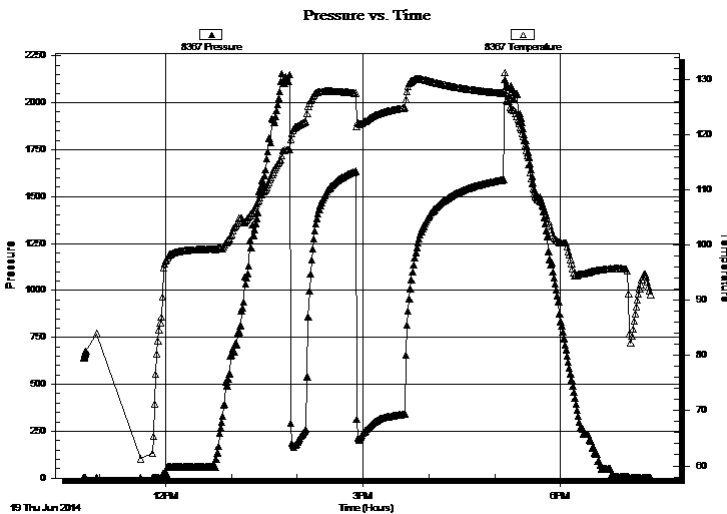
TEST COMMENT: IF: Strong Blow, BOB in 10 seconds, GTS in 8 minutes, Gauged Gas

IS: 1/2 inch Blow Back

FF: Strong Blow, BOB & GTS immediate, Gauged Gas

FS: 1 inch Blow Back

PRESSURE SUMMARY



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

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------------|--------------|
| 0.00 | GTS | 0.00 |
| 186.00 | Water | 1.11 |
| 248.00 | GMCW 10%G 30%M 60%W | 2.54 |
| 62.00 | GCM 20%G 80%M | 0.64 |
| | | |
| | | |

Gas Rates

| | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|----------------|-----------------|------------------|
| First Gas Rate | 0.25 | 100.00 | 181.49 |
| Last Gas Rate | 0.25 | 125.00 | 221.15 |
| Max. Gas Rate | 0.25 | 125.00 | 221.15 |

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Roberts Resources

27-31S-13W Barber,KS

2020 N Tyler Ste 106
Wichita, KS 67212

Robert G Larson 1-27

Job Ticket: 58998

DST#: 3

ATTN: Kent Roberts

Test Start: 2014.06.19 @ 10:45:21

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 4048.00 ft | Diameter: 3.25 inches | Volume: 41.54 bbl | Tool Weight: 2100.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 149.00 ft | Diameter: 2.25 inches | Volume: 0.73 bbl | Weight to Pull Loose: 50000.00 lb |
| | | | <u>Total Volume: 42.27 bbl</u> | Tool Chased ft |
| Drill Pipe Above KB: | 29.00 ft | | | String Weight: Initial 45000.00 lb |
| Depth to Top Packer: | 4194.00 ft | | | Final 49000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 24.00 ft | | | |
| Tool Length: | 50.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|----------------|
|------------------|-------------|------------|----------|------------|----------------|

| | | | | | |
|----------------|-------|------|---------|---------|-------------------------------|
| Shut In Tool | 5.00 | | | 4173.00 | |
| Hydraulic tool | 5.00 | | | 4178.00 | |
| Jars | 5.00 | | | 4183.00 | |
| Safety Joint | 2.00 | | | 4185.00 | |
| Packer | 5.00 | | | 4190.00 | 26.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 4194.00 | |
| Stubb | 1.00 | | | 4195.00 | |
| Recorder | 0.00 | 6798 | Inside | 4195.00 | |
| Recorder | 0.00 | 8367 | Outside | 4195.00 | |
| Perforations | 20.00 | | | 4215.00 | |
| Bullnose | 3.00 | | | 4218.00 | 24.00 Bottom Packers & Anchor |

Total Tool Length: 50.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Roberts Resources

27-31S-13W Barber,KS

2020 N Tyler Ste 106
Wichita, KS 67212

Robert G Larson 1-27

Job Ticket: 58998

DST#: 3

ATTN: Kent Roberts

Test Start: 2014.06.19 @ 10:45:21

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 8.00 lb/gal

Cushion Length:

ft

Water Salinity:

85000 ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbf

Water Loss: in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 75000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbf |
|--------------|---------------------|---------------|
| 0.00 | GTS | 0.000 |
| 186.00 | Water | 1.112 |
| 248.00 | GMCW 10%G 30%M 60%W | 2.545 |
| 62.00 | GCM 20%G 80%M | 0.636 |

Total Length: 496.00 ft Total Volume: 2.440 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw was .07 @ 90 degrees



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Roberts Resources

27-31S-13W Barber,KS

2020 N Tyler Ste 106
Wichita, KS 67212

Robert G Larson 1-27

Job Ticket: 58998

DST#: 3

ATTN: Kent Roberts

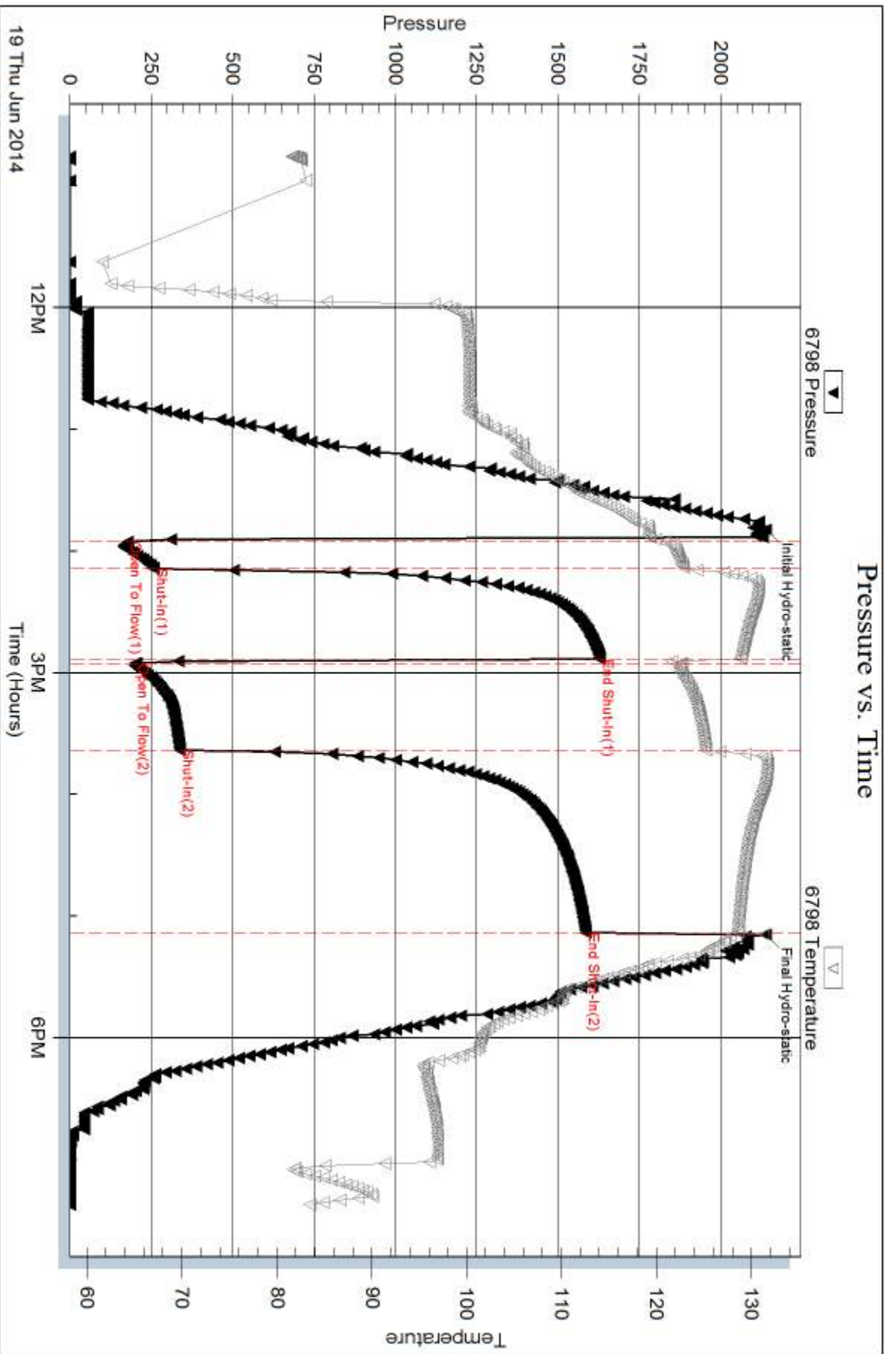
Test Start: 2014.06.19 @ 10:45:21

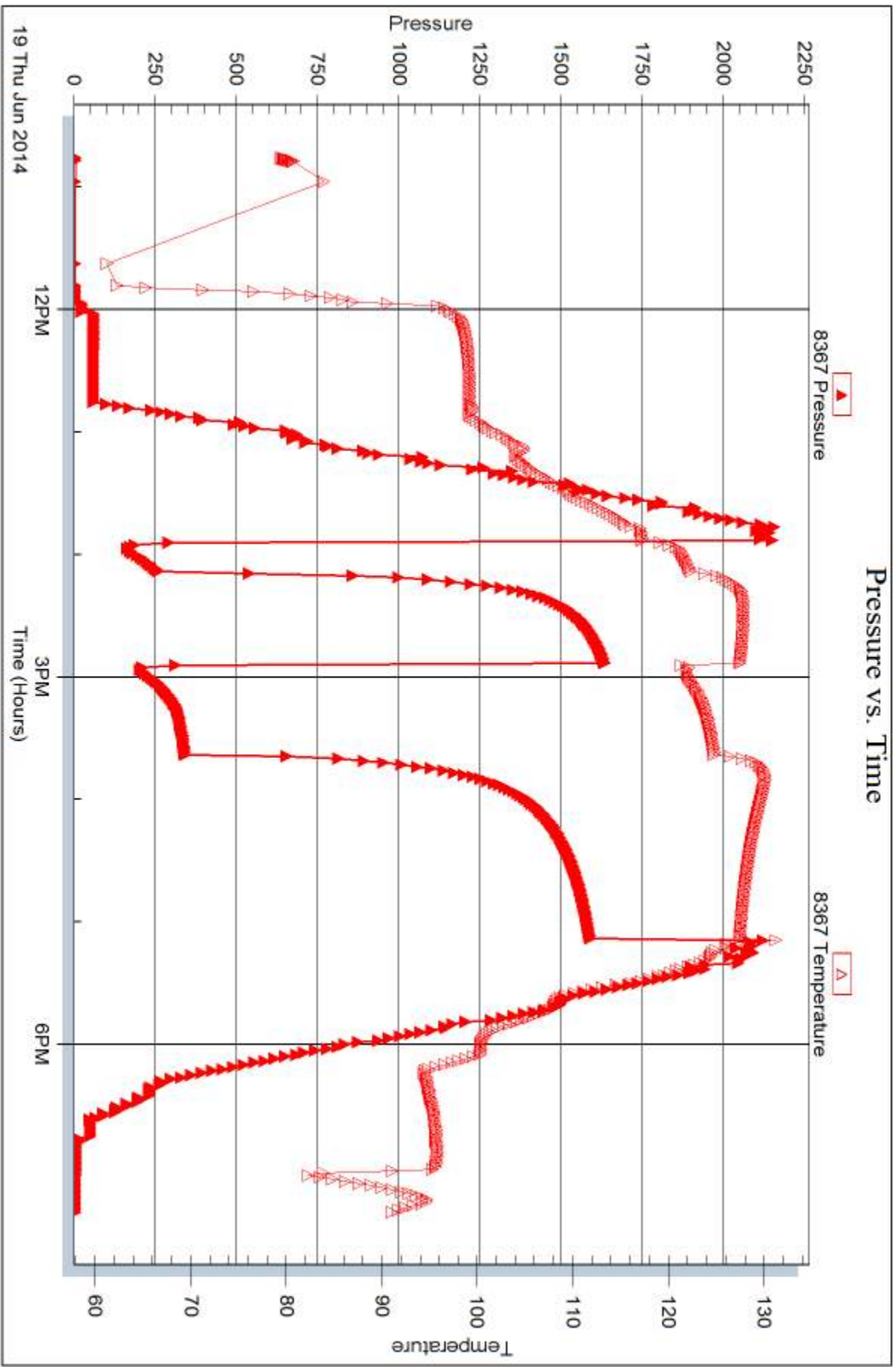
Gas Rates Information

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) |
|-------------|--------------|----------------|-----------------|------------------|
| 1 | 10 | 0.25 | 100.00 | 181.49 |
| 1 | 15 | 0.25 | 125.00 | 221.15 |
| 2 | 5 | 0.25 | 80.00 | 149.76 |
| 2 | 10 | 0.25 | 110.00 | 197.35 |
| 2 | 20 | 0.25 | 125.00 | 221.15 |
| 2 | 30 | 0.25 | 125.00 | 221.15 |
| 2 | 40 | 0.25 | 125.00 | 221.15 |
| 2 | 45 | 0.25 | 125.00 | 221.15 |







DRILL STEM TEST REPORT

Prepared For: **Roberts Resources**

2020 N Tyler Ste 106
Wichita, KS 67212

ATTN: Kent Roberts

Robert G Larson 1-27

27-31S-13W Barber,KS

Start Date: 2014.06.20 @ 15:43:56

End Date: 2014.06.20 @ 23:07:26

Job Ticket #: 58999 DST #: 4

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

Printed: 2014.06.24 @ 13:13:06



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Roberts Resources

27-31S-13W Barber,KS

2020 N Tyler Ste 106
Wichita, KS 67212

Robert G Larson 1-27

ATTN: Kent Roberts

Job Ticket: 58999

DST#: 4

Test Start: 2014.06.20 @ 15:43:56

GENERAL INFORMATION:

Formation: **Viola**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:41:11

Time Test Ended: 23:07:26

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 74

Interval: 4370.00 ft (KB) To 4476.00 ft (KB) (TVD)

Reference Elevations: 1549.00 ft (KB)

Total Depth: 4476.00 ft (KB) (TVD)

1541.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 6798

Inside

Press@RunDepth: 103.88 psig @ 4371.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.20

End Date:

2014.06.20

Last Calib.:

2014.06.20

Start Time: 15:43:57

End Time:

23:07:26

Time On Btm:

2014.06.20 @ 17:40:41

Time Off Btm:

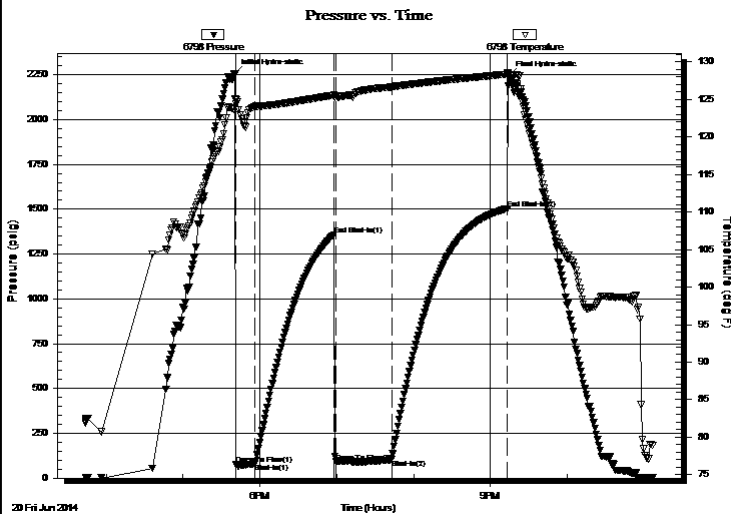
2014.06.20 @ 21:14:41

TEST COMMENT: IF: Fair Blow , BOB in 8 minutes

IS: No Blow Back

FF: Strong Blow , BOB in 10 seconds, GTS in 18 minutes, TSTM, Caught Sample

FS: No Blow Back



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2257.89 | 125.12 | Initial Hydro-static |
| 1 | 76.55 | 124.42 | Open To Flow (1) |
| 16 | 80.45 | 124.01 | Shut-In(1) |
| 78 | 1359.49 | 125.57 | End Shut-In(1) |
| 79 | 90.16 | 125.47 | Open To Flow (2) |
| 123 | 103.88 | 126.65 | Shut-In(2) |
| 213 | 1504.05 | 128.36 | End Shut-In(2) |
| 214 | 2244.15 | 128.27 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------|--------------|
| 0.00 | GTS | 0.00 |
| 65.00 | GCM 5%G 95%M | 0.32 |
| | | |
| | | |
| | | |

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Roberts Resources
 2020 N Tyler Ste 106
 Wichita, KS 67212
 ATTN: Kent Roberts

27-31S-13W Barber,KS

Robert G Larson 1-27

Job Ticket: 58999 **DST#: 4**

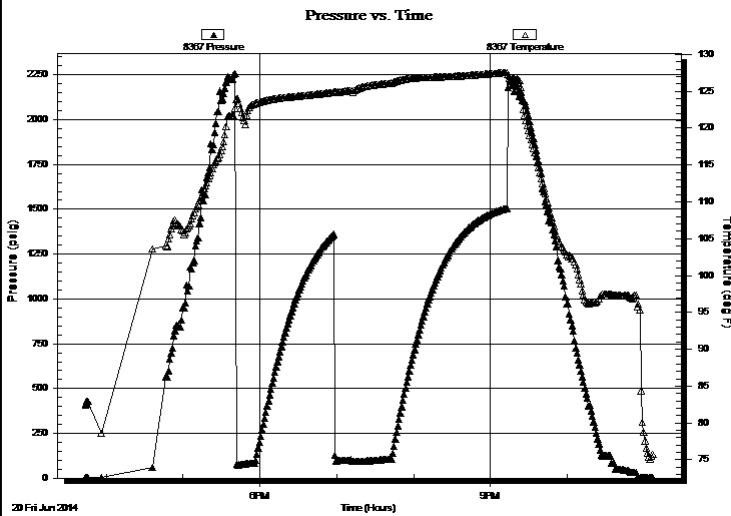
Test Start: 2014.06.20 @ 15:43:56

GENERAL INFORMATION:

Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:41:11
 Time Test Ended: 23:07:26
 Interval: **4370.00 ft (KB) To 4476.00 ft (KB) (TVD)**
 Total Depth: 4476.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Leal Cason
 Unit No: 74
 Reference Elevations: 1549.00 ft (KB)
 1541.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8367 Outside
 Press@RunDepth: psig @ 4371.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.06.20 End Date: 2014.06.20 Last Calib.: 2014.06.20
 Start Time: 15:43:57 End Time: 23:07:26 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Fair Blow , BOB in 8 minutes
 IS: No Blow Back
 FF: Strong Blow , BOB in 10 seconds, GTS in 18 minutes, TSTM, Caught Sample
 FS: No Blow Back



PRESSURE SUMMARY

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

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------|--------------|
| 0.00 | GTS | 0.00 |
| 65.00 | GCM 5%G 95%M | 0.32 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Roberts Resources

27-31S-13W Barber,KS

2020 N Tyler Ste 106
Wichita, KS 67212

Robert G Larson 1-27

ATTN: Kent Roberts

Job Ticket: 58999

DST#: 4

Test Start: 2014.06.20 @ 15:43:56

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 4205.00 ft | Diameter: 3.25 inches | Volume: 43.15 bbl | Tool Weight: 2100.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 149.00 ft | Diameter: 2.25 inches | Volume: 0.73 bbl | Weight to Pull Loose: 55000.00 lb |
| | | | <u>Total Volume: 43.88 bbl</u> | Tool Chased ft |
| Drill Pipe Above KB: | 10.00 ft | | | String Weight: Initial 48000.00 lb |
| Depth to Top Packer: | 4370.00 ft | | | Final 49000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 106.00 ft | | | |
| Tool Length: | 132.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

Tool Description

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

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|--------------------------------|
| Shut In Tool | 5.00 | | | 4349.00 | |
| Hydraulic tool | 5.00 | | | 4354.00 | |
| Jars | 5.00 | | | 4359.00 | |
| Safety Joint | 2.00 | | | 4361.00 | |
| Packer | 5.00 | | | 4366.00 | 26.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 4370.00 | |
| Stubb | 1.00 | | | 4371.00 | |
| Recorder | 0.00 | 6798 | Inside | 4371.00 | |
| Recorder | 0.00 | 8367 | Outside | 4371.00 | |
| Perforations | 2.00 | | | 4373.00 | |
| Change Over Sub | 0.50 | | | 4373.50 | |
| Drill Pipe | 94.00 | | | 4467.50 | |
| Change Over Sub | 0.50 | | | 4468.00 | |
| Perforations | 5.00 | | | 4473.00 | |
| Bullnose | 3.00 | | | 4476.00 | 106.00 Bottom Packers & Anchor |

Total Tool Length: 132.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Roberts Resources

27-31S-13W Barber,KS

2020 N Tyler Ste 106
Wichita, KS 67212

Robert G Larson 1-27

Job Ticket: 58999

DST#: 4

ATTN: Kent Roberts

Test Start: 2014.06.20 @ 15:43:56

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 8.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 75000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|--------------|---------------|
| 0.00 | GTS | 0.000 |
| 65.00 | GCM 5%G 95%M | 0.320 |

Total Length: 65.00 ft Total Volume: 0.320 bbl

Num Fluid Samples: 0

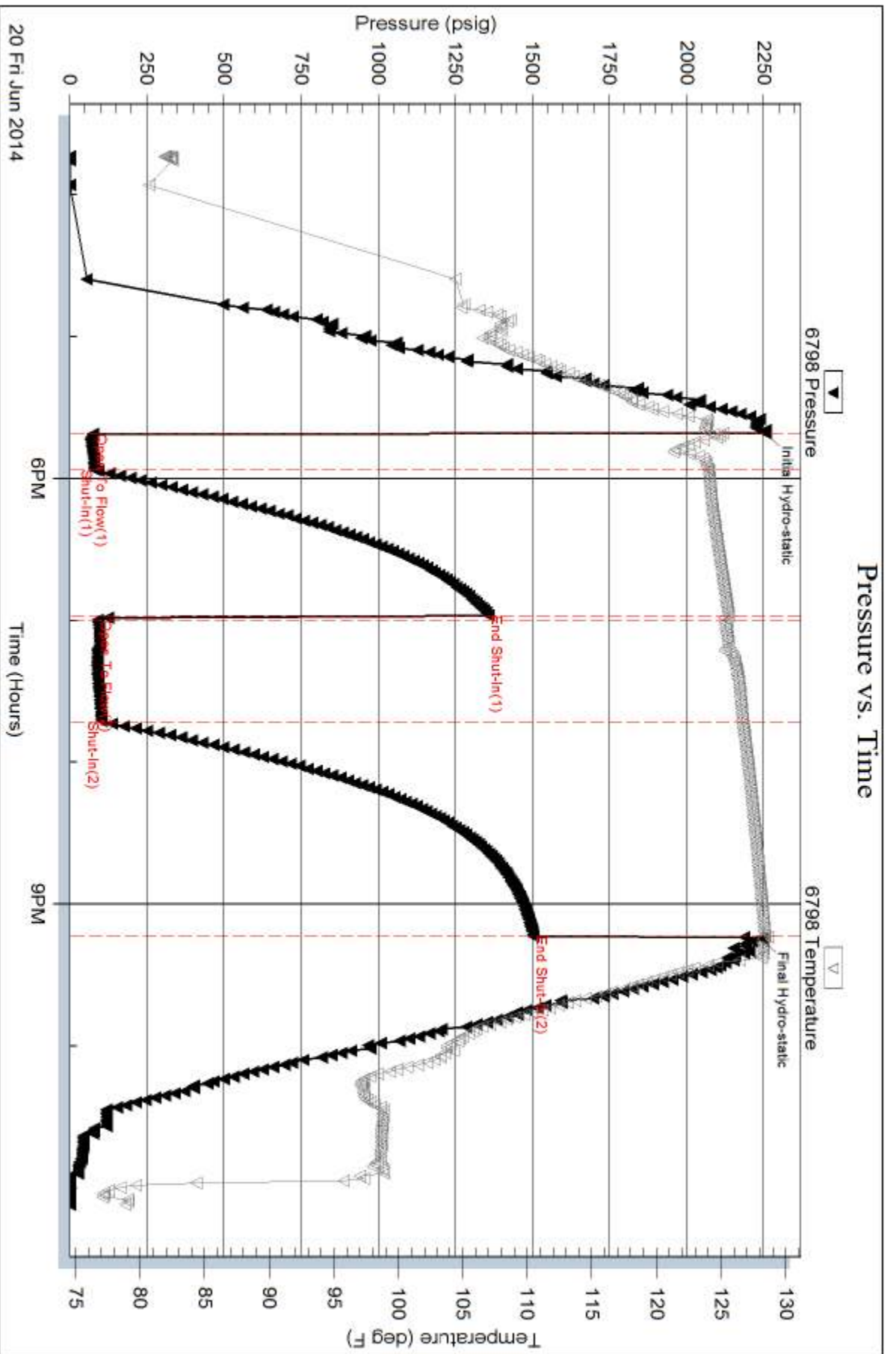
Num Gas Bombs: 0

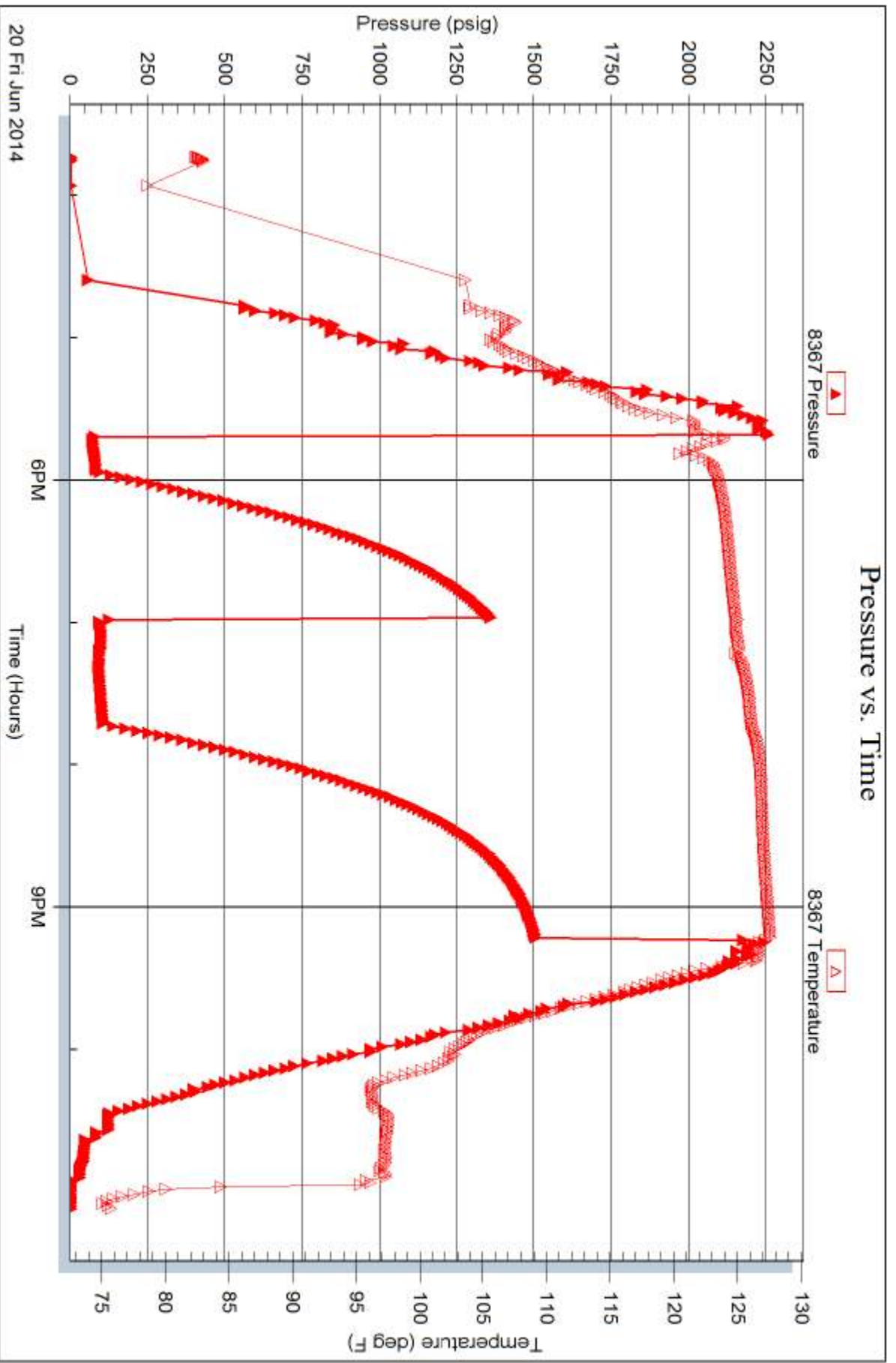
Serial #:

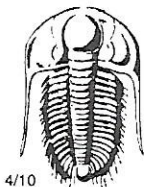
Laboratory Name:

Laboratory Location:

Recovery Comments:







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58996

Well Name & No. 1-27 Robert G Larson Test No. 1 Date 06/15/14
 Company Roberts Resources Elevation 1549 KB 1541 GL
 Address 2020 N. Tyler Stc 106 Wichita, KS 67212
 Co. Rep / Geo. Kent Roberts Rig Fossil 2
 Location: Sec. 27 Twp. 31S Rge. 13W Co. Barber State KS

Interval Tested 2574 - 2610 Zone Tested Indian Cave
 Anchor Length 36 Drill Pipe Run 22416 Mud Wt. 8.5
 Top Packer Depth 2569 Drill Collars Run 149 Vis 45
 Bottom Packer Depth 2574 Wt. Pipe Run 0 WL NIC
 Total Depth 2610 Chlorides 75000 ppm System LCM

Blow Description IF: strong Blow, BOB in 90 seconds
ISI: NO Blow Back
FF: strong Blow, BOB in 2 minutes
FSI: NO Blow Back

| Rec | Feet of | %gas | %oil | %water | %mud |
|------------|--------------|------|------|-----------|-----------|
| <u>102</u> | <u>WCM</u> | | | <u>60</u> | <u>40</u> |
| <u>868</u> | <u>Water</u> | | | | |
| | | | | | |
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| | | | | | |

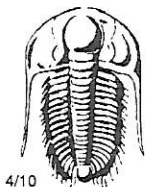
Rec Total 970 BHT 100° Gravity NIC API RW .02 @ 61 °F Chlorides 48000 ppm

| | | |
|-------------------------------------|---|----------------------------|
| (A) Initial Hydrostatic <u>1222</u> | <input checked="" type="checkbox"/> Test <u>1150</u> | T-On Location <u>00:30</u> |
| (B) First Initial Flow <u>58</u> | <input checked="" type="checkbox"/> Jars <u>250</u> | T-Started <u>01:58</u> |
| (C) First Final Flow <u>263</u> | <input checked="" type="checkbox"/> Safety Joint <u>75</u> | T-Open <u>04:24</u> |
| (D) Initial Shut-In <u>1065</u> | <input type="checkbox"/> Circ Sub | T-Pulled <u>06:26</u> |
| (E) Second Initial Flow <u>274</u> | <input type="checkbox"/> Hourly Standby | T-Out <u>08:22</u> |
| (F) Second Final Flow <u>524</u> | <input checked="" type="checkbox"/> Mileage <u>(90)</u> <u>139.50</u> | Comments |
| (G) Final Shut-In <u>1063</u> | <input type="checkbox"/> Sampler | |
| (H) Final Hydrostatic <u>1213</u> | <input type="checkbox"/> Straddle | |

| | | |
|---------------------------|---|--|
| Initial Open <u>15</u> | <input type="checkbox"/> Shale Packer | <input type="checkbox"/> Ruined Shale Packer |
| Initial Shut-In <u>30</u> | <input type="checkbox"/> Extra Packer | <input type="checkbox"/> Ruined Packer |
| Final Flow <u>30</u> | <input type="checkbox"/> Extra Recorder | Sub Total <u>0</u> |
| Final Shut-In <u>45</u> | <input type="checkbox"/> Day Standby | Total <u>1614.50</u> |
| | <input type="checkbox"/> Accessibility | MP/DST Disc't |
| | Sub Total <u>1614.50</u> | |

Approved By Kent Roberts 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. 58997

Well Name & No. 1-27 Robert G Larson Test No. 2 Date 06/17/14
 Company Roberts Resources Elevation 1549 KB 1541 GL
 Address 2020 N. Tyler Ste 106 Wichita, KS 67212
 Co. Rep / Geo. Kent Roberts Rig Fossil 2
 Location: Sec. 27 Twp. 31S Rge. ~~S31~~ 13W Co. Barber State KS

Interval Tested 3323 - 3349 Zone Tested Deer creek
 Anchor Length 26 Drill Pipe Run 3169 Mud Wt. 9.1
 Top Packer Depth 3318 Drill Collars Run 149 Vis 41
 Bottom Packer Depth 3323 Wt. Pipe Run 0 WL 9.6
 Total Depth 3349 Chlorides 6000 ppm System LCM

Blow Description IF: Strong Blow, BOB in 10 seconds, GTS in 4 minutes, Gauged + caught sample
ISL: Linch Blow Back
FF: Strong Blow BOB + GTS immediate, Gauged Gas
FSI: 3 inch Blow Back

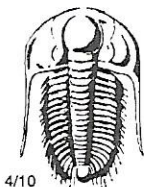
| Rec | Feet of | %gas | %oil | %water | %mud |
|-------------|--------------|------------|-----------|-----------|----------|
| <u>2958</u> | <u>GIP</u> | | | | |
| <u>176</u> | <u>GMOCW</u> | <u>10%</u> | <u>30</u> | <u>55</u> | <u>5</u> |
| <u>62</u> | <u>MOCW</u> | <u>0</u> | <u>10</u> | <u>85</u> | <u>5</u> |
| <u>122</u> | <u>water</u> | | | | |
| | | | | | |

Rec Total 366 BHT 110 Gravity NIC API RW .05 @ 76.5° F Chlorides 170,000 ppm

| | | |
|-------------------------------------|--|----------------------------|
| (A) Initial Hydrostatic <u>1692</u> | <input checked="" type="checkbox"/> Test <u>1150</u> | T-On Location <u>00:00</u> |
| (B) First Initial Flow <u>515</u> | <input checked="" type="checkbox"/> Jars <u>250</u> | T-Started <u>01:28</u> |
| (C) First Final Flow <u>632</u> | <input checked="" type="checkbox"/> Safety Joint <u>75</u> | T-Open <u>04:04</u> |
| (D) Initial Shut-In <u>1425</u> | <input type="checkbox"/> Circ Sub | T-Pulled <u>07:29</u> |
| (E) Second Initial Flow <u>471</u> | <input type="checkbox"/> Hourly Standby | T-Out <u>09:48</u> |
| (F) Second Final Flow <u>524</u> | <input checked="" type="checkbox"/> Mileage <u>909</u> <u>139.50</u> | Comments |
| (G) Final Shut-In <u>1422</u> | <input type="checkbox"/> Sampler | |
| (H) Final Hydrostatic <u>1636</u> | <input type="checkbox"/> Straddle | |

| | | |
|---------------------------|---|--|
| Initial Open <u>15</u> | <input type="checkbox"/> Shale Packer | <input type="checkbox"/> Ruined Shale Packer |
| Initial Shut-In <u>45</u> | <input type="checkbox"/> Extra Packer | <input type="checkbox"/> Ruined Packer |
| Final Flow <u>45</u> | <input type="checkbox"/> Extra Recorder | <input type="checkbox"/> Extra Copies |
| Final Shut-In <u>90</u> | <input checked="" type="checkbox"/> Day Standby <u>3/4</u> 1d 15.5h | Sub Total <u>516.67</u> |
| | <input type="checkbox"/> Accessibility | Total <u>2131.17</u> |
| | Sub Total <u>1614.50</u> | MP/DST Disc't |

Approved By Kent Roberts Our Representative [Signature]



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58998

Well Name & No. 1-27 Robert G Larson Test No. 3 Date 06/19/14
 Company Roberts Resources Elevation 1549 KB 1541 GL
 Address 2020 N. Tyler Ste 106 Wichita, KS 67212
 Co. Rep / Geo. Kent Roberts Rig Fossil 2
 Location: Sec. 27 Twp. 31S Rge. ~~S30~~ 13W Co. Barber State KS

Interval Tested 4194 - 4218 Zone Tested Mississippi
 Anchor Length 24 Drill Pipe Run 4048 Mud Wt. 9.6
 Top Packer Depth 4189 Drill Collars Run 149 Vis 48
 Bottom Packer Depth 4194 Wt. Pipe Run 0 WL 11.0
 Total Depth 4218 Chlorides 6000 ppm System LCM

Blow Description IF: Strong Blow, BOB in 10 seconds, GTS in 8 minutes, Gauged Gas
ISI: 1/2 inch Blow Back
FF: Strong Blow, BOB & GTS immediate, Gauged Gas
FSI: 1 inch Blow Back

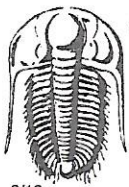
| Rec | Feet of | %gas | %oil | %water | %mud |
|-------------|--------------|-----------|------|-----------|-----------|
| <u>3701</u> | <u>GIP</u> | | | | |
| <u>62</u> | <u>GCM</u> | <u>20</u> | | | <u>80</u> |
| <u>248</u> | <u>GMCW</u> | <u>10</u> | | <u>60</u> | <u>30</u> |
| <u>186</u> | <u>water</u> | | | | |
| | | | | | |

Rec Total 496 BHT 131 Gravity NIC API RW .07 @ 90 ° F Chlorides 85000 ppm

| | | |
|-------------------------------------|---|--|
| (A) Initial Hydrostatic <u>2140</u> | <input checked="" type="checkbox"/> Test <u>1250</u> | T-On Location <u>09:15</u> |
| (B) First Initial Flow <u>178</u> | <input checked="" type="checkbox"/> Jars <u>250</u> | T-Started <u>10:45</u> |
| (C) First Final Flow <u>258</u> | <input checked="" type="checkbox"/> Safety Joint <u>75</u> | T-Open <u>13:55</u> |
| (D) Initial Shut-In <u>1631</u> | <input type="checkbox"/> Circ Sub | T-Pulled <u>17:08</u> |
| (E) Second Initial Flow <u>200</u> | <input type="checkbox"/> Hourly Standby | T-Out <u>19:22</u> |
| (F) Second Final Flow <u>339</u> | <input checked="" type="checkbox"/> Mileage <u>90</u> 139.50 | Comments |
| (G) Final Shut-In <u>1587</u> | <input type="checkbox"/> Sampler | |
| (H) Final Hydrostatic <u>2139</u> | <input type="checkbox"/> Straddle | <input type="checkbox"/> Ruined Shale Packer |
| | <input type="checkbox"/> Shale Packer | <input type="checkbox"/> Ruined Packer |
| | <input type="checkbox"/> Extra Packer | <input type="checkbox"/> Extra Copies |
| | <input type="checkbox"/> Extra Recorder | Sub Total <u>783.33</u> |
| | <input checked="" type="checkbox"/> Day Standby <u>1</u> 1d 23.5h | Total <u>2497.83</u> |
| | <input type="checkbox"/> Accessibility | MP/DST Disc't |
| | Sub Total <u>1714.50</u> | |

Approved By Kent Roberts 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

Gas Volume Report

8/12

Roberts Resources

Operator

1-27 Robert G. Larson

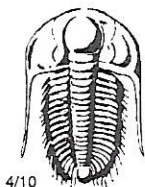
Well Name and No.

3

DST No.

| Min. | Inlet of Water PSIG | Orifice Size | M CF/D | Min. | Inlet of Water PSIG | Orifice Size | M CF/D |
|------|------------------------|--------------|---------|------|------------------------|--------------|---------|
| 10 | 100 | 1/4 | 181.485 | 5 | 80 | 1/4 | 149.756 |
| 15 | 125 | 1/4 | 221.145 | 10 | 110 | 1/4 | 197.349 |
| | | | | 20 | 125 | 1/4 | 221.145 |
| | | | | 30 | 125 | 1/4 | 221.145 |
| | | | | 40 | 125 | 1/4 | 221.145 |
| | | | | 45 | 125 | 1/4 | 221.145 |
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Remarks:



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58999

Well Name & No. 1-27 Robert G Larson Test No. 4 Date 06/20/14
 Company Roberts Resources Elevation 1549 KB 1541 GL
 Address 2020 N. Tyler Ste 106 Wichita, KS 67212
 Co. Rep / Geo. Kent Roberts Rig Fossil 2
 Location: Sec. 27 Twp. 31S Rge. 13W Co. Barber State KS

Interval Tested 4370 - 4476 Zone Tested Viola
 Anchor Length 106 Drill Pipe Run 4205 Mud Wt. 9.4
 Top Packer Depth 4365 Drill Collars Run 149 Vis 48
 Bottom Packer Depth 4370 Wt. Pipe Run 0 WL 10.8
 Total Depth 4476 Chlorides 7006 ppm System LCM

Blow Description IF: Fair Blow, BOB in 8 minutes
ISI: NO Blow Back
FF: Strong Blow, BOB in 10 seconds, GTS in 18 minutes, TSTM, caught sample
FSI: NO Blow Back

| Rec | Feet of | %gas | %oil | %water | %mud |
|-------------|------------|----------|------|--------|-----------|
| <u>4289</u> | <u>GIP</u> | | | | |
| <u>65</u> | <u>GCM</u> | <u>5</u> | | | <u>95</u> |
| | | | | | |
| | | | | | |
| | | | | | |

Rec Total 65 BHT 128 Gravity NIC API RW NIC @ NIC °F Chlorides NIC ppm

| | | |
|-------------------------------------|---|----------------------------|
| (A) Initial Hydrostatic <u>2258</u> | <input checked="" type="checkbox"/> Test <u>1250</u> | T-On Location <u>14:30</u> |
| (B) First Initial Flow <u>77</u> | <input checked="" type="checkbox"/> Jars <u>250</u> | T-Started <u>15:43</u> |
| (C) First Final Flow <u>80</u> | <input checked="" type="checkbox"/> Safety Joint <u>75</u> | T-Open <u>17:41</u> |
| (D) Initial Shut-In <u>1359</u> | <input type="checkbox"/> Circ Sub | T-Pulled <u>21:13</u> |
| (E) Second Initial Flow <u>90</u> | <input type="checkbox"/> Hourly Standby | T-Out <u>23:07</u> |
| (F) Second Final Flow <u>104</u> | <input checked="" type="checkbox"/> Mileage <u>(90)</u> <u>139.50</u> | Comments |
| (G) Final Shut-In <u>1504</u> | <input type="checkbox"/> Sampler | |
| (H) Final Hydrostatic <u>2244</u> | <input type="checkbox"/> Straddle | |

| |
|--|
| <input type="checkbox"/> Ruined Shale Packer |
| <input type="checkbox"/> Ruined Packer |
| <input type="checkbox"/> Extra Copies |
| Sub Total <u>0</u> |
| Total <u>1714.50</u> |
| MP/DST Disc't |
| Sub Total <u>1714.50</u> |

Approved By Kent Roberts Our Representative [Signature]

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