



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1236171
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: _____



1236171

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

| | | | | |
|----------------|-------|---------|------------|---|
| 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 | Bow Creek Oil Company, General Partnership |
| Well Name | Braun 2 |
| Doc ID | 1236171 |

All Electric Logs Run

| |
|--------------------------------|
| |
| Dual Induction Log |
| Microresistivity Log |
| Dual Compensated Porosity Log |
| Compensated Neutron Log |
| Borehole Compensated Sonic Log |
| Compensated Density Log |
| Gamma Ray Log |



DRILL STEM TEST REPORT

Prepared For: **Bow Creek Oil Company**

1304 Eisenhower Rd
Hays, KS 67601

ATTN: Lyle Herman

Braun #2

34-13s-17w Ellis,KS

Start Date: 2014.06.10 @ 20:09:00

End Date: 2014.06.11 @ 03:56:00

Job Ticket #: 59380 DST #: 1

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

Printed: 2014.06.13 @ 09:46:40



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Bow Creek Oil Company

34-13s-17w Ellis,KS

1304 Eisenhower Rd
Hays, KS 67601

Braun #2

Job Ticket: 59380

DST#: 1

ATTN: Lyle Herman

Test Start: 2014.06.10 @ 20:09:00

GENERAL INFORMATION:

Formation: **LKC "E-F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:32:30

Time Test Ended: 03:56:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Phillip Gage

Unit No: 48

Interval: 3299.00 ft (KB) To 3340.00 ft (KB) (TVD)

Reference Elevations: 1961.00 ft (KB)

Total Depth: 3340.00 ft (KB) (TVD)

1953.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8372 Inside

Press@RunDepth: 19.34 psig @ 3305.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.10

End Date:

2014.06.11

Last Calib.: 2014.06.11

Start Time: 20:09:01

End Time:

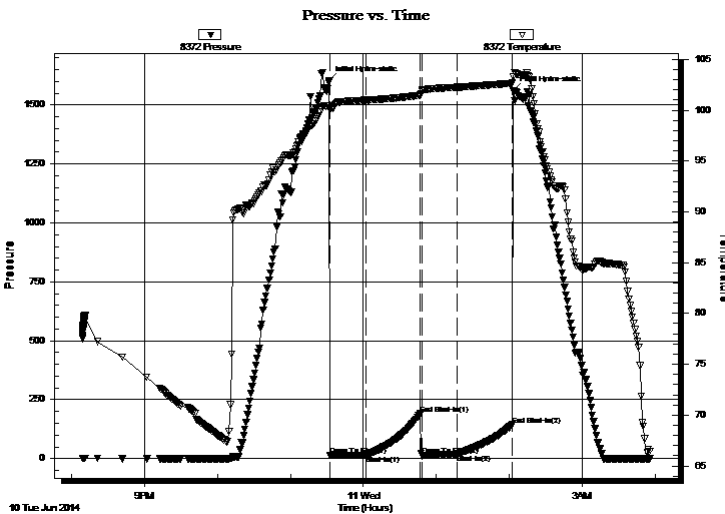
03:56:00

Time On Btm: 2014.06.10 @ 23:32:00

Time Off Btm: 2014.06.11 @ 02:03:30

TEST COMMENT: 30-IF-Built to 2 1/4"
45-ISI-No Return
30-FF-Built to 3 1/4"
45-FSI-No Return

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1602.80 | 100.40 | Initial Hydro-static |
| 1 | 13.82 | 100.02 | Open To Flow (1) |
| 30 | 15.20 | 100.98 | Shut-In(1) |
| 75 | 190.68 | 101.46 | End Shut-In(1) |
| 76 | 12.59 | 101.95 | Open To Flow (2) |
| 105 | 19.34 | 102.25 | Shut-In(2) |
| 151 | 143.97 | 102.66 | End Shut-In(2) |
| 152 | 1562.41 | 103.29 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|------------------|--------------|
| 25.00 | SOCM, 10%o, 90%m | 0.35 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bow Creek Oil Company

34-13s-17w Ellis,KS

1304 Eisenhower Rd
Hays, KS 67601

Braun #2

Job Ticket: 59380

DST#: 1

ATTN: Lyle Herman

Test Start: 2014.06.10 @ 20:09:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3287.00 ft | Diameter: 3.80 inches | Volume: 46.11 bbl | Tool Weight: 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 2.75 inches | Volume: 0.00 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 0.00 ft | Diameter: 2.25 inches | Volume: 0.00 bbl | Weight to Pull Loose: 60000.00 lb |
| | | | <u>Total Volume: 46.11 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 8.00 ft | | | String Weight: Initial 47000.00 lb |
| Depth to Top Packer: | 3299.00 ft | | | Final 47000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 41.00 ft | | | |
| Tool Length: | 61.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

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

| | | | | | |
|-----------------|-------|------|---------|---------|-------------------------------|
| Change Over Sub | 1.00 | | | 3280.00 | |
| Shut In Tool | 5.00 | | | 3285.00 | |
| Hydraulic tool | 5.00 | | | 3290.00 | |
| Packer | 5.00 | | | 3295.00 | 20.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 3299.00 | |
| Stubb | 1.00 | | | 3300.00 | |
| Perforations | 4.00 | | | 3304.00 | |
| Change Over Sub | 1.00 | | | 3305.00 | |
| Recorder | 0.00 | 8372 | Inside | 3305.00 | |
| Recorder | 0.00 | 8321 | Outside | 3305.00 | |
| Drill Pipe | 31.00 | | | 3336.00 | |
| Change Over Sub | 1.00 | | | 3337.00 | |
| Bullnose | 3.00 | | | 3340.00 | 41.00 Bottom Packers & Anchor |

Total Tool Length: 61.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Bow Creek Oil Company

34-13s-17w Ellis,KS

1304 Eisenhower Rd
Hays, KS 67601

Braun #2

Job Ticket: 59380

DST#: 1

ATTN: Lyle Herman

Test Start: 2014.06.10 @ 20:09:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|------------------|---------------|
| 25.00 | SOCM, 10%o, 90%m | 0.351 |

Total Length: 25.00 ft Total Volume: 0.351 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8372

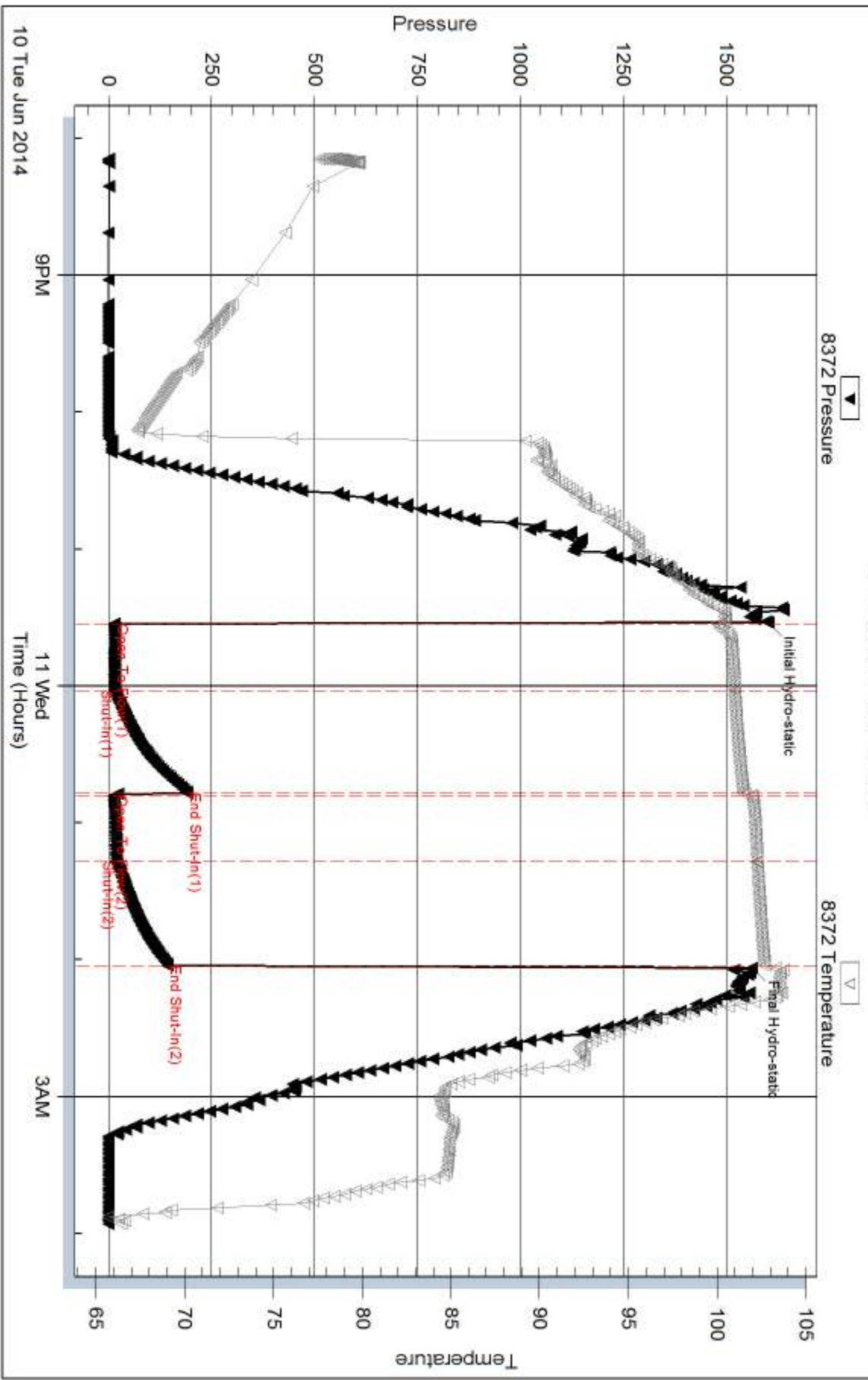
Inside

Bow Creek Oil Company

Braun #2

DST Test Number: 1

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 59380

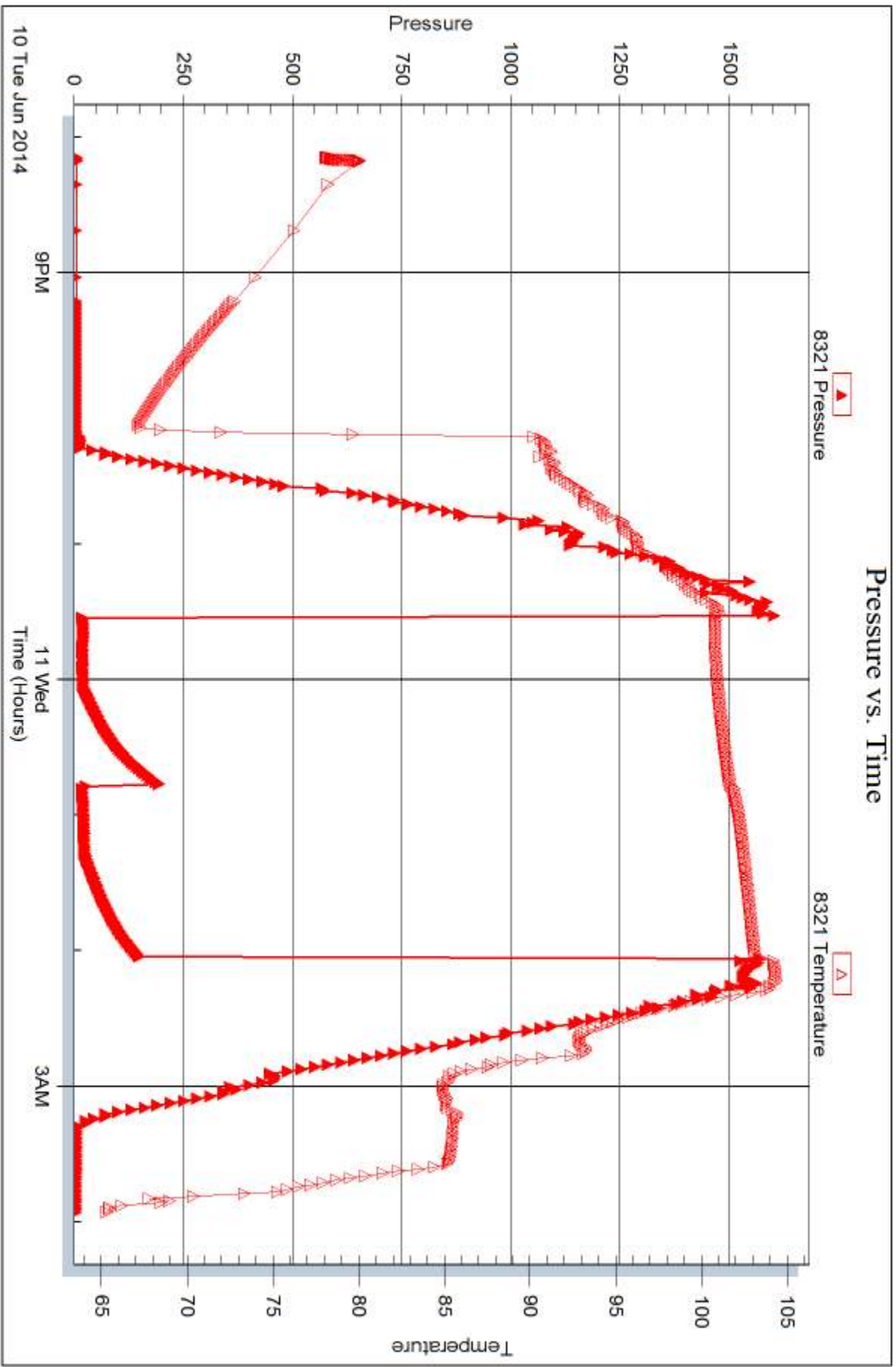
Printed: 2014.06.13 @ 09:46:41

Serial #: 8321

Outside Bow Creek Oil Company

Braun #2

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 59380

Printed: 2014.06.13 @ 09:46:41



DRILL STEM TEST REPORT

Prepared For: **Bow Creek Oil Company**

1304 Eisenhower Rd
Hays, KS 67601

ATTN: Lyle Herman

Braun #2

34-13s-17w Ellis,KS

Start Date: 2014.06.11 @ 13:47:00

End Date: 2014.06.11 @ 22:26:00

Job Ticket #: 59381 DST #: 2

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

Printed: 2014.06.13 @ 09:46:02

Bow Creek Oil Company
34-13s-17w Ellis,KS
Braun #2
DST # 2
LKC "I-J"
2014.06.11



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Bow Creek Oil Company

34-13s-17w Ellis,KS

1304 Eisenhower Rd
Hays, KS 67601

Braun #2

Job Ticket: 59381

DST#: 2

ATTN: Lyle Herman

Test Start: 2014.06.11 @ 13:47:00

GENERAL INFORMATION:

Formation: **LKC "I-J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:31:00

Time Test Ended: 22:26:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Phillip Gage

Unit No: 48

Interval: 3382.00 ft (KB) To 3435.00 ft (KB) (TVD)

Reference Elevations: 1961.00 ft (KB)

Total Depth: 3435.00 ft (KB) (TVD)

1953.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8372

Inside

Press@RunDepth: 26.12 psig @ 3383.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.11

End Date:

2014.06.11

Last Calib.:

2014.06.11

Start Time: 13:47:01

End Time:

22:26:00

Time On Btm:

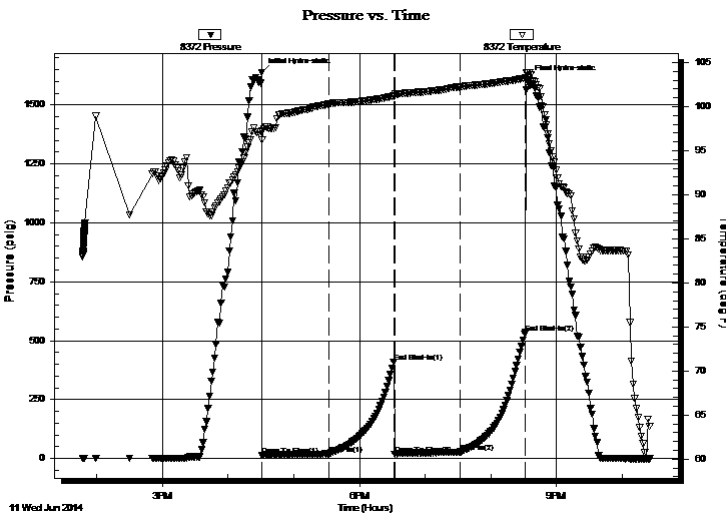
2014.06.11 @ 16:30:30

Time Off Btm:

2014.06.11 @ 20:33:30

TEST COMMENT: 60-IF-Built to 7"
60-ISI-No Return
60-FF-BOB in 48 mins
60-FSI-No Return

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1638.05 | 97.22 | Initial Hydro-static |
| 1 | 12.65 | 96.24 | Open To Flow (1) |
| 61 | 19.53 | 100.28 | Shut-In(1) |
| 121 | 410.71 | 101.20 | End Shut-In(1) |
| 122 | 17.40 | 101.29 | Open To Flow (2) |
| 181 | 26.12 | 102.25 | Shut-In(2) |
| 241 | 534.66 | 103.24 | End Shut-In(2) |
| 243 | 1605.65 | 103.88 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|------------------------|--------------|
| 35.00 | GOCM, 15%g, 25%o, 60%m | 0.49 |
| 0.00 | GIP, 60' | 0.00 |
| | | |
| | | |
| | | |

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bow Creek Oil Company

34-13s-17w Ellis,KS

1304 Eisenhower Rd
Hays, KS 67601

Braun #2

Job Ticket: 59381

DST#: 2

ATTN: Lyle Herman

Test Start: 2014.06.11 @ 13:47:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3381.00 ft | Diameter: 3.80 inches | Volume: 47.43 bbl | Tool Weight: 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 2.75 inches | Volume: 0.00 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 0.00 ft | Diameter: 2.25 inches | Volume: 0.00 bbl | Weight to Pull Loose: 70000.00 lb |
| | | | <u>Total Volume: 47.43 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 19.00 ft | | | String Weight: Initial 46000.00 lb |
| Depth to Top Packer: | 3382.00 ft | | | Final 48000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 53.00 ft | | | |
| Tool Length: | 73.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

Tool Description

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|-------------------------------|
| Change Over Sub | 1.00 | | | 3363.00 | |
| Shut In Tool | 5.00 | | | 3368.00 | |
| Hydraulic tool | 5.00 | | | 3373.00 | |
| Packer | 5.00 | | | 3378.00 | 20.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 3382.00 | |
| Stubb | 1.00 | | | 3383.00 | |
| Recorder | 0.00 | 8372 | Inside | 3383.00 | |
| Recorder | 0.00 | 8321 | Outside | 3383.00 | |
| Perforations | 16.00 | | | 3399.00 | |
| Change Over Sub | 1.00 | | | 3400.00 | |
| Drill Pipe | 31.00 | | | 3431.00 | |
| Change Over Sub | 1.00 | | | 3432.00 | |
| Bullnose | 3.00 | | | 3435.00 | 53.00 Bottom Packers & Anchor |

Total Tool Length: 73.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Bow Creek Oil Company

34-13s-17w Ellis,KS

1304 Eisenhower Rd
Hays, KS 67601

Braun #2

Job Ticket: 59381

DST#: 2

ATTN: Lyle Herman

Test Start: 2014.06.11 @ 13:47:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|------------------------|---------------|
| 35.00 | GOCM, 15%g, 25%o, 60%m | 0.491 |
| 0.00 | GIP, 60' | 0.000 |

Total Length: 35.00 ft Total Volume: 0.491 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8372

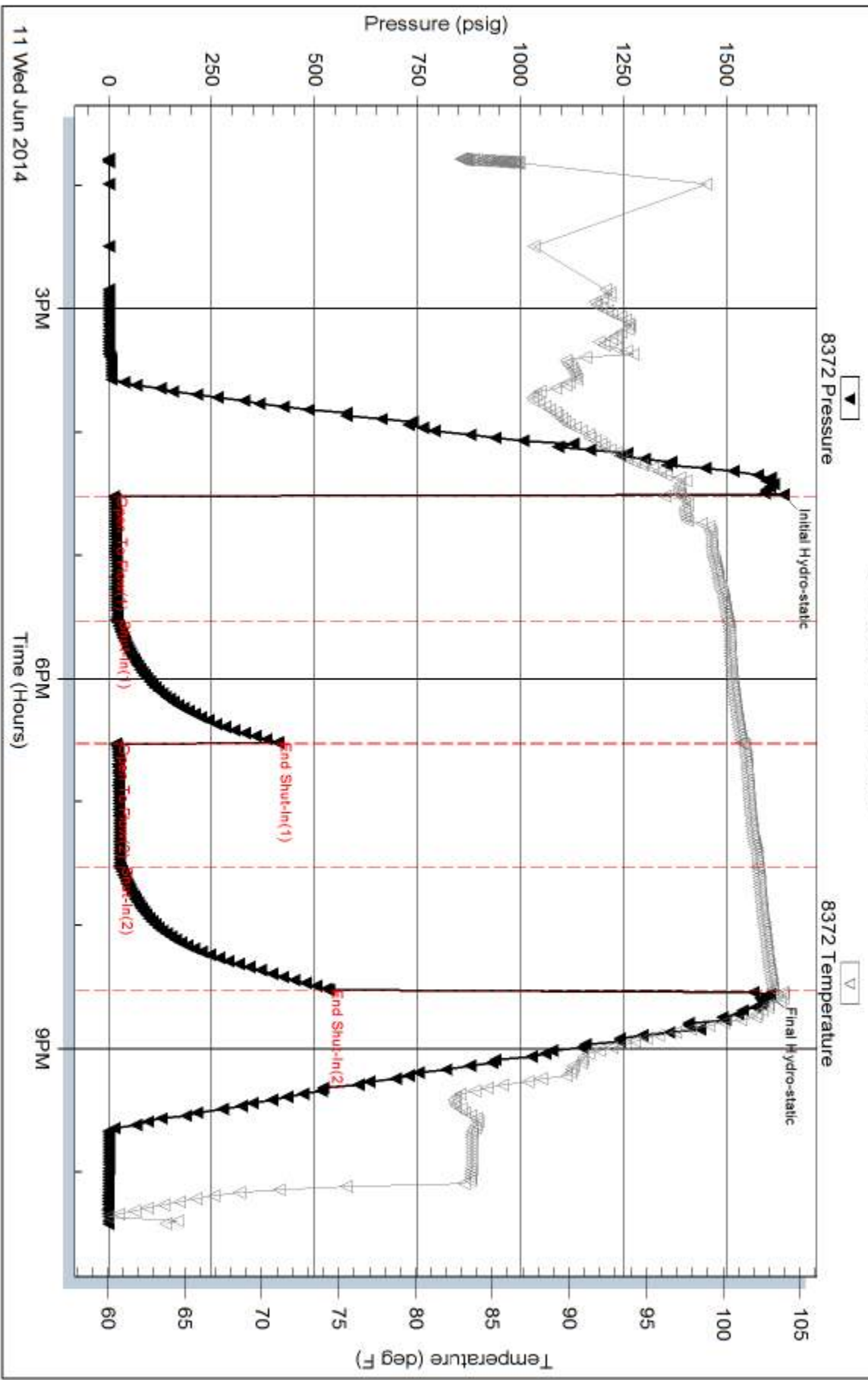
Inside

Bow Creek Oil Company

Braun #2

DST Test Number: 2

Pressure vs. Time

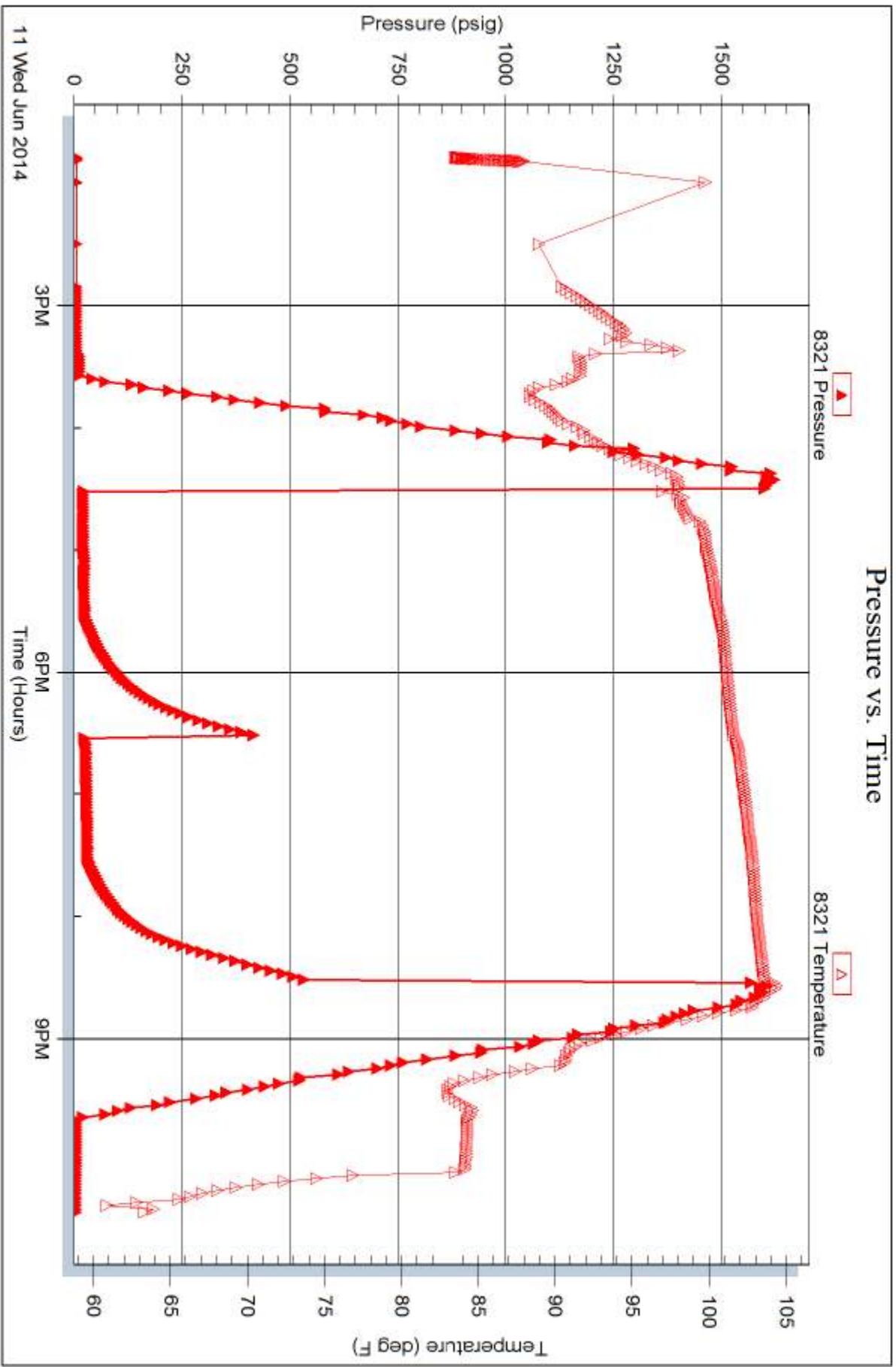


Serial #: 8321

Outside Bow Creek Oil Company

Braun #2

DST Test Number: 2





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59380

4/10

Well Name & No. Braun #2 Test No. 1 Date 6-10-14
 Company Bow Creek Oil Company Elevation 1961 KB 1953 GL
 Address 1304 Eisenhower Rd Hays, KS 67601
 Co. Rep / Geo. Lyle Herman Rig Discovery Rig 2
 Location: Sec. 34 Twp. 13s Rge. 17w Co. Ellis State KS

Interval Tested 3294-3340 Zone Tested LKL "E-F"
 Anchor Length 41' Drill Pipe Run 3287 Mud Wt. 9
 Top Packer Depth 3294 Drill Collars Run 0 Vis 46
 Bottom Packer Depth 3294 Wt. Pipe Run 0 WL 9.2
 Total Depth 3340 Chlorides 5000 ppm System LCM #2

Blow Description DF- Build to 2 1/4"
DSI- No Return
FF- Build to 3 1/4"
FSI- No Return

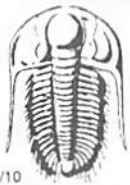
| Rec | Feet of | %gas | %oil | %water | %mud |
|------------|--------------|-----------|------|-----------|------|
| <u>251</u> | <u>150CM</u> | <u>10</u> | | <u>90</u> | |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |

Rec Total 251 BHT 103 Gravity — API RW @ °F Chlorides — ppm
 (A) Initial Hydrostatic 1602 Test 1150 T-On Location 18:37
 (B) First Initial Flow 13 Jars _____ T-Started 20:09
 (C) First Final Flow 15 Safety Joint _____ T-Open 23:32
 (D) Initial Shut-In 190 Circ Sub _____ T-Pulled 03:03
 (E) Second Initial Flow 12 Hourly Standby _____ T-Out 03:56
 (F) Second Final Flow 19 Mileage 10 RT 15.50 Comments _____
 (G) Final Shut-In 143 Sampler _____
 (H) Final Hydrostatic 1562 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1165.50
 Accessibility _____ MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 45
 Final Flow 30
 Final Shut-In 45
 Sub Total 1165.50

Approved By _____ Our Representative Phil Guss Thank You

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. 59381

Well Name & No. Brown #2 Test No. 2 Date 6-11-14
 Company Bow Creek Oil Company Elevation 1961 KB 1953 GL
 Address 1304 Eisenhower RD Hays, KS 67601
 Co. Rep / Geo. Lyle Herman Rig Discovery Rig 2
 Location: Sec. 34 Twp. 13s Rge. 7W Co. Ellis State KS

Interval Tested 3382-3435 Zone Tested LKC "I-5"
 Anchor Length 53' Drill Pipe Run 3381 Mud Wt. 9
 Top Packer Depth 3377 Drill Collars Run 0 Vis 46
 Bottom Packer Depth 3382 Wt. Pipe Run 0 WL 8
 Total Depth 3435 Chlorides 9,000 ppm System LCM 2#
 Blow Description FF - Built to 7"
DST - No Return
FF - BOB in 48 min.
FSI - No Return.

| Rec | Feet of | %gas | %oil | %water | %mud |
|-----------|----------------|------------|-----------|-----------|------|
| <u>35</u> | <u>60CM</u> | <u>15</u> | <u>25</u> | <u>60</u> | |
| <u>0</u> | <u>OIP 60'</u> | <u>100</u> | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Rec Total 35' BHT 103 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1638 Test 1150 T-On Location 13:19
 (B) First Initial Flow 12 Jars _____ T-Started 13:47
 (C) First Final Flow 19 Safety Joint _____ T-Open 16:37
 (D) Initial Shut-In 410 Circ Sub _____ T-Pulled 20:32
 (E) Second Initial Flow 17 Hourly Standby _____ T-Out 22:27
 (F) Second Final Flow 26 Mileage 10 RT 15.50 Comments _____
 (G) Final Shut-In 534 Sampler _____ loaded tools 6/12 16:00
 (H) Final Hydrostatic 1605 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 60 Extra Recorder _____ Sub Total 0
 Initial Shut-In 60 Day Standby _____ Total 1165.50
 Final Flow 60 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 60 Sub Total 1165.50

Approved By _____ Our Representative Phil Logg Thank You
 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.



Services, Inc.

TICKET 26283

CHARGE TO: POW CREEK OIL Co., General Partnership
 ADDRESS: _____
 CITY, STATE, ZIP CODE: _____

PAGE 1 OF 2

SERVICE LOCATIONS: 1. Mess Creek #2 WELLS/PROJECT NO. # 2 LEASE BRAUN COUNTY/PARISH CLATS STATE KS CITY _____ DATE 6-13-14 OWNER SAME

2. TICKET TYPE SERVICE CONTRACTOR Discovery Data # 2 RIG NAME/NO. _____ ORDER NO. _____

3. WELLS TYPE OIL WELL CATEGORY Developer JOB PURPOSE 5 1/2" horizontal WELLS PERMIT NO. _____ WELL LOCATION 13th Toward - 2E 31N, E.S.

4. REFERRAL LOCATION _____ INVOICE INSTRUCTIONS _____

| PRICE REFERENCE | SECONDARY REFERENCE/ PART NUMBER | ACCOUNTING | | | DESCRIPTION | QTY. | | UNIT | | AMOUNT |
|-----------------|----------------------------------|------------|------|----|-------------------------------|------|-----|--------|-----|---------|
| | | LOC | ACCT | DF | | QTY. | U/M | QTY. | U/M | |
| 575 | | 1 | | | MILEAGE # <u>112</u> | 20 | mi | 6 | 00 | 120.00 |
| 578 | | 1 | | | PUMP CHARGE | 1 | job | 3621 | ft | 1500.00 |
| 221 | | 1 | | | TRUCK RCL | 2 | gal | 25 | 00 | 50.00 |
| 281 | | 1 | | | MUDFISH | 500 | gal | 1 | 25 | 625.00 |
| 402 | | 1 | | | CONDUITS | 8 | SA | 5 1/2" | | 560.00 |
| 403 | | 1 | | | Cement Basket | 1 | EA | | | 300.00 |
| 406 | | 1 | | | LATCH DOWN RIG - PARTS | 1 | EA | | | 275.00 |
| 407 | | 1 | | | TASSER FLOAT SHOE w/AUTO FILL | 1 | EA | | | 375.00 |

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X DATE SIGNED 6-13-14 TIME SIGNED 1130 A.M. P.M.

SWIFT OPERATOR Wesley Wilson APPROVAL _____

REMIT PAYMENT TO:

SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN? YES NO

WE UNDERSTOOD AND MET YOUR NEEDS? YES NO

OUR SERVICE WAS PERFORMED WITHOUT DELAY? YES NO

WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? YES NO

ARE YOU SATISFIED WITH OUR SERVICE? YES NO

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL # 1 3805.00

TAX # 2 4372.50

TOTAL _____

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

Thank You!



PO Box 466.
Ness City, KS 67560
Of: 785-798-2300

TICKET CONTINUATION

TICKET No. 26283

CUSTOMER: Bow Creek Oil Co. WELL: BOWW 42 DATE: 6-13-11 PAGE 2 OF 2

| PRICE REFERENCE | SECONDARY REFERENCE/ PART NUMBER | ACCOUNTING | | | TIME | DESCRIPTION | WELL | | | | UNIT PRICE | AMOUNT | | | |
|-----------------|----------------------------------|------------|------|----|------|----------------|------|--------------|-------|--------------|------------|-----------|---------|--------|--------|
| | | LOC | ACCT | DF | | | QTY. | UM | QTY. | UM | | | | | |
| 325 | | | | | | STANDARD COMPT | EA-2 | 175 | SWS | | | 14.50 | 2537.50 | | |
| 276 | | | | | | FLOECIC | | 50 | lbs | | | 2.50 | 125.00 | | |
| 283 | | | | | | SALT | | 900 | lbs | | | 20 | 180.00 | | |
| 284 | | | | | | CASUAL | | 8 | SWS | 800 | lbs | 35.00 | 280.00 | | |
| 285 | | | | | | CFD-1 | | 100 | lbs | | | 4.50 | 450.00 | | |
| 290 | | | | | | D-ADR | | 2 | GM | | | 42.00 | 84.00 | | |
| 581 | | | | | | SERVICE CHARGE | | | | | | 175 | 2.00 | 350.00 | |
| 583 | | | | | | MILEAGE CHARGE | | TOTAL WEIGHT | 18300 | LOADED MILES | 40 | TON MILES | 366 | 1.00 | 366.00 |

CONTINUATION TOTAL 4372.50

JOB LOG

SWIFT Services, Inc.

DATE 6-13-14 PAGE NO. 1

CUSTOMER Bow Creek Oil Co WELL NO. #2 LEASE BRAUN JOB TYPE 5 1/2" LONGSTRING TICKET NO. 26283

| CHART NO. | TIME | RATE (BPM) | VOLUME (BBL) (GAL) | PUMPS | | PRESSURE (PSI) | | DESCRIPTION OF OPERATION AND MATERIALS |
|-----------|------|------------|--------------------|-------|---|----------------|--------|--|
| | | | | T | C | TUBING | CASING | |
| | 1100 | | | | | | | ON LOCATION |
| | 1245 | | | | | | | START 5 1/2" CASING IN WELL |
| | | | | | | | | TD-3635 SET-3621 |
| | | | | | | | | TP-3621 5 1/2" 15.5 |
| | | | | | | | | ST-40 |
| | | | | | | | | CONTRACTORS - 3, 5, 7, 9, 11, 13, 15, 17 |
| | | | | | | | | CMT BSKTS - 3 |
| | 1415 | | | | | | | DROP BALL - CIRCULATE REGRABITE |
| | 1500 | 6 | 12 | | ✓ | | 400 | PUMP 500 GAL MUDFLUSH |
| | 1502 | 6 | 20 | | ✓ | | 400 | PUMP 20 BBL KCL-FLUSH |
| | 1510 | | 7-5 | | | | | PLUG RH (30 SKS) MH (20 SKS) |
| | 1520 | 4 1/4 | 30 | | ✓ | | 250 | MAX CEMENT - 125 SKS EA2 = 15.5 PPG |
| | 1528 | | | | | | | WASH OUT PUMP - LINES |
| | 1528 | | | | | | | RELEASE LATCH DOWN PLUG |
| | 1532 | 7 | 0 | | ✓ | | | DISPLACE PLUG |
| | | 7 | 80 | | | | 750 | |
| | 1545 | 6 | 85.2 | | | | 1500 | PLUG DOWN - PSE UP LATCH IN PLUG |
| | 1550 | | | | | | OK | RELEASE PSE - HELD |
| | | | | | | | | WASH TRUCK |
| | 1630 | | | | | | | JOB COMPLETE |

THANK YOU
WAYNE, BRAUN, ROB