



DRILL STEM TEST REPORT

Prepared For: **McCoy Petroleum Corp.**

8080 E. Central Ste. 300
Wichita, KS 67206-2386

ATTN: Dave Williams

Fitzgerald A #5-30

30-30s-31w Haskell,KS

Start Date: 2013.08.26 @ 21:04:32

End Date: 2013.08.27 @ 07:13:47

Job Ticket #: 52350 DST #: 1

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

Printed: 2013.09.03 @ 16:12:35



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

McCoy Petroleum Corp.
 8080 E. Central Ste. 300
 Wichita, KS 67206-2386
 ATTN: Dave Williams

30-30s-31w Haskell, KS
Fitzgerald A #5-30
 Job Ticket: 52350 **DST#: 1**
 Test Start: 2013.08.26 @ 21:04:32

GENERAL INFORMATION:

Formation: **Swope**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:03:17
 Time Test Ended: 07:13:47
 Interval: **4666.00 ft (KB) To 4688.00 ft (KB) (TVD)**
 Total Depth: 4688.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ryan Reynolds
 Unit No: 48
 Reference Elevations: 2857.00 ft (KB)
 2846.00 ft (CF)
 KB to GR/CF: 11.00 ft

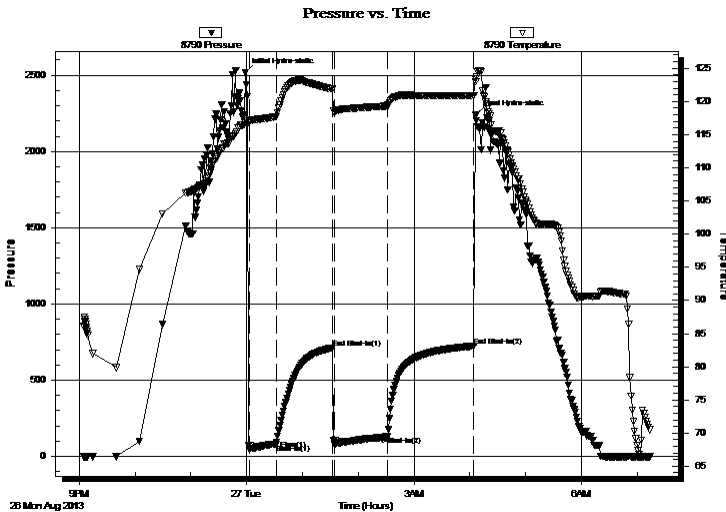
Serial #: 8790

Inside

Press @ Run Depth: 129.72 psig @ 4667.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.08.26 End Date: 2013.08.27 Last Calib.: 2013.08.27
 Start Time: 21:04:37 End Time: 07:13:47 Time On Btm: 2013.08.26 @ 23:58:17
 Time Off Btm: 2013.08.27 @ 04:06:32

TEST COMMENT: IF: Strong blow . BOB @ 1 min. No GTS.
 IS: Weak blow . surf. - 2"
 FF: Strong blow . BOB immed. GTS @ 10min.
 FS: Good blow . surf. - 7"

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2518.19 | 116.75 | Initial Hydro-static |
| 5 | 48.32 | 116.95 | Open To Flow (1) |
| 34 | 81.54 | 117.71 | Shut-In(1) |
| 94 | 712.36 | 121.84 | End Shut-In(1) |
| 97 | 80.61 | 118.29 | Open To Flow (2) |
| 153 | 129.72 | 119.33 | Shut-In(2) |
| 246 | 723.47 | 120.86 | End Shut-In(2) |
| 249 | 2241.66 | 122.95 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---|--------------|
| 65.00 | MWOG 7% mud, 27% w tr, 30% oil, 36% gas | 0.32 |
| 185.00 | WMGO 9% w tr, 9% mud, 25% gas, 57% oil | 1.49 |
| 80.00 | WGMO 2% w tr, 20% gas, 30% mud, 48% oil | 1.12 |
| | | |
| | | |

Gas Rates

| | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|----------------|-----------------|------------------|
| First Gas Rate | 0.13 | 5.00 | 7.26 |
| Last Gas Rate | 0.13 | 14.00 | 10.63 |
| Max. Gas Rate | 0.13 | 14.00 | 10.63 |



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

McCoy Petroleum Corp.

30-30s-31w Haskell, KS

8080 E. Central Ste. 300
Wichita, KS 67206-2386

Fitzgerald A #5-30

Job Ticket: 52350

DST#: 1

ATTN: Dave Williams

Test Start: 2013.08.26 @ 21:04:32

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 4461.00 ft | Diameter: 3.80 inches | Volume: 62.58 bbl | Tool Weight: 2500.00 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: 186.00 ft | Diameter: 2.25 inches | Volume: 0.91 bbl | Weight to Pull Loose: 95000.00 lb |
| | | | <u>Total Volume: 63.49 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 7.00 ft | | | String Weight: Initial 75000.00 lb |
| Depth to Top Packer: | 4666.00 ft | | | Final 77000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 22.00 ft | | | |
| Tool Length: | 48.00 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 | | | 4645.00 | |
| Hydraulic tool | 5.00 | | | 4650.00 | |
| Jars | 5.00 | | | 4655.00 | |
| Safety Joint | 2.00 | | | 4657.00 | |
| Packer | 5.00 | | | 4662.00 | 26.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 4666.00 | |
| Stubb | 1.00 | | | 4667.00 | |
| Recorder | 0.00 | 8790 | Inside | 4667.00 | |
| Recorder | 0.00 | 8792 | Outside | 4667.00 | |
| Perforations | 18.00 | | | 4685.00 | |
| Bullnose | 3.00 | | | 4688.00 | 22.00 Bottom Packers & Anchor |

Total Tool Length: 48.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

McCoy Petroleum Corp.

30-30s-31w Haskell, KS

8080 E. Central Ste. 300
Wichita, KS 67206-2386

Fitzgerald A #5-30

Job Ticket: 52350

DST#: 1

ATTN: Dave Williams

Test Start: 2013.08.26 @ 21:04:32

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

41 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

71000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|---|---------------|
| 65.00 | MVOG 7% mud, 27% w tr, 30% oil, 36% gas | 0.320 |
| 185.00 | WMGO 9% w tr, 9% mud, 25% gas, 57% oil | 1.493 |
| 80.00 | WGMO 2% w tr, 20% gas, 30% mud, 48% oil | 1.122 |

Total Length: 330.00 ft

Total Volume: 2.935 bbl

Num Fluid Samples: 1

Num Gas Bombs: 1

Serial #: RR-1

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

McCoy Petroleum Corp.

30-30s-31w Haskell, KS

8080 E. Central Ste. 300
Wichita, KS 67206-2386

Fitzgerald A #5-30

Job Ticket: 52350

DST#: 1

ATTN: Dave Williams

Test Start: 2013.08.26 @ 21:04:32

Gas Rates Information

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

Gas Rates Table

| Flow Period | Elapsed Time | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|-------------|--------------|----------------|-----------------|------------------|
| 2 | 10 | 0.13 | 5.00 | 7.26 |
| 2 | 20 | 0.13 | 7.00 | 8.01 |
| 2 | 30 | 0.13 | 8.00 | 8.38 |
| 2 | 40 | 0.13 | 10.00 | 9.13 |
| 2 | 50 | 0.13 | 13.00 | 10.26 |
| 2 | 60 | 0.13 | 14.00 | 10.63 |

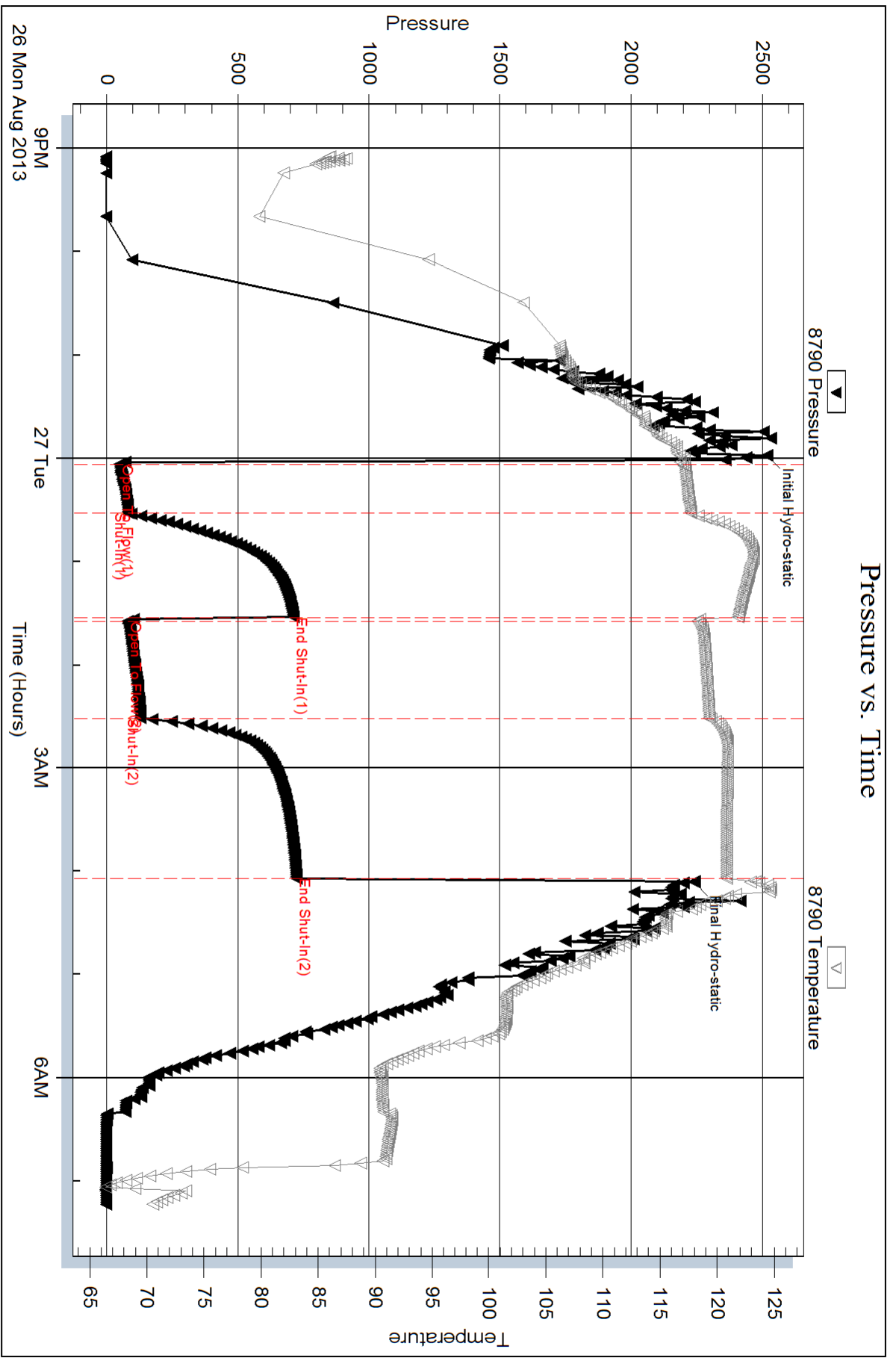
Serial #: 8790

Inside

McCoy Petroleum Corp.

Fitzgerald A #5-30

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 52350

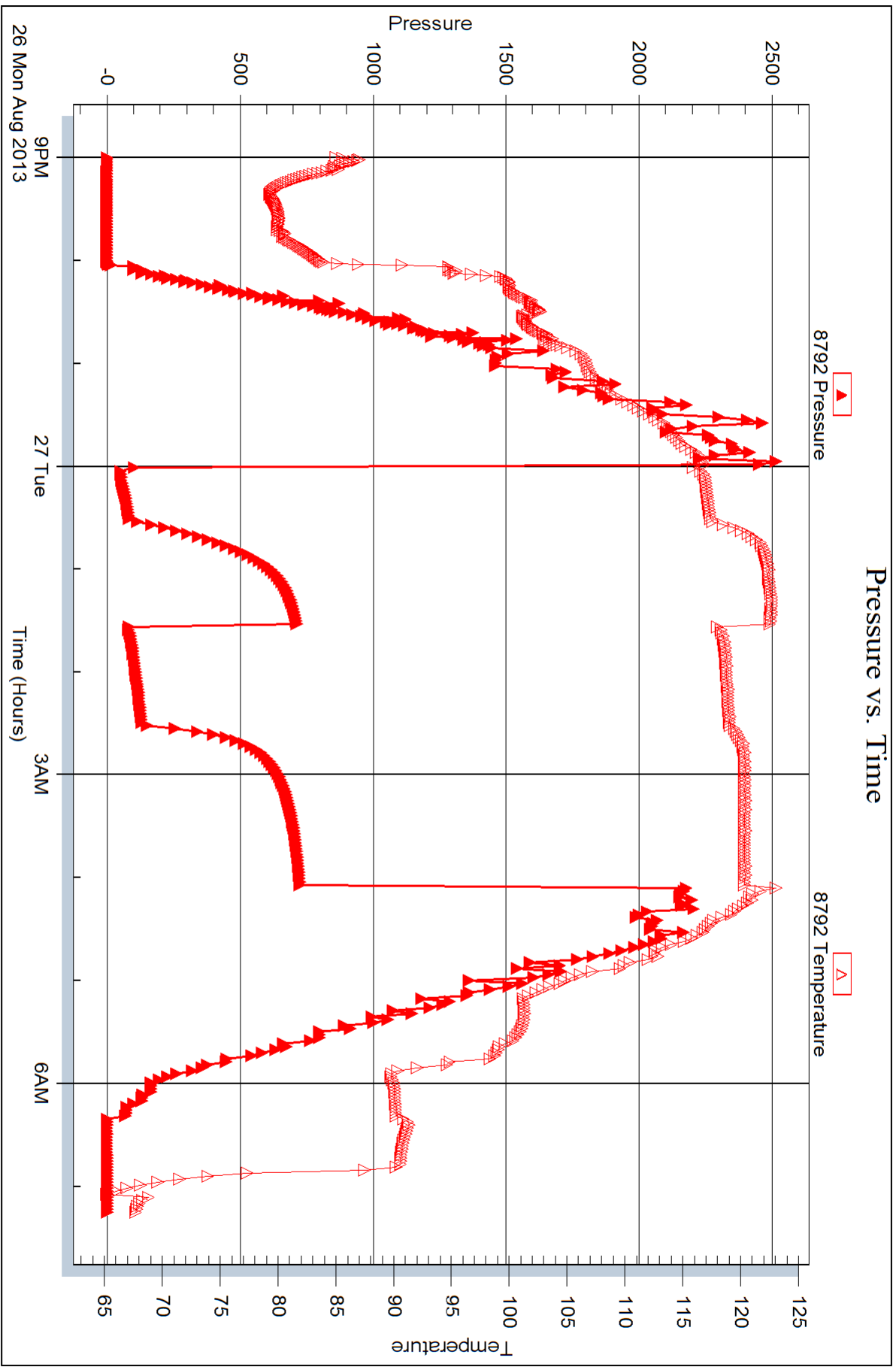
Printed: 2013.09.03 @ 16:12:37

Serial #: 8792

Outside McCoy Petroleum Corp.

Fitzgerald A #5-30

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **McCoy Petroleum Corp.**

8080 E. Central Ste. 300
Wichita, KS 67206-2386

ATTN: Dave Williams

Fitzgerald A #5-30

30-30s-31w Haskell,KS

Start Date: 2013.08.29 @ 16:24:35

End Date: 2013.08.30 @ 01:55:35

Job Ticket #: 52451 DST #: 2

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

Printed: 2013.09.03 @ 15:59:21



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

McCoy Petroleum Corp.

30-30s-31w Haskell, KS

8080 E. Central Ste. 300
Wichita, KS 67206-2386

Fitzgerald A #5-30

ATTN: Dave Williams

Job Ticket: 52451

DST#: 2

Test Start: 2013.08.29 @ 16:24:35

GENERAL INFORMATION:

Formation: **Morrow SS**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:56:05

Time Test Ended: 01:55:35

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Reynolds

Unit No: 48

Interval: 5268.00 ft (KB) To 5328.00 ft (KB) (TVD)

Reference Elevations: 2857.00 ft (KB)

Total Depth: 5328.00 ft (KB) (TVD)

2846.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8790 Inside

Press @ Run Depth: 478.23 psig @ 5269.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.08.29

End Date: 2013.08.30

Last Calib.: 2013.08.30

Start Time: 16:24:40

End Time: 01:55:35

Time On Btm: 2013.08.29 @ 18:53:20

Time Off Btm: 2013.08.29 @ 22:58:05

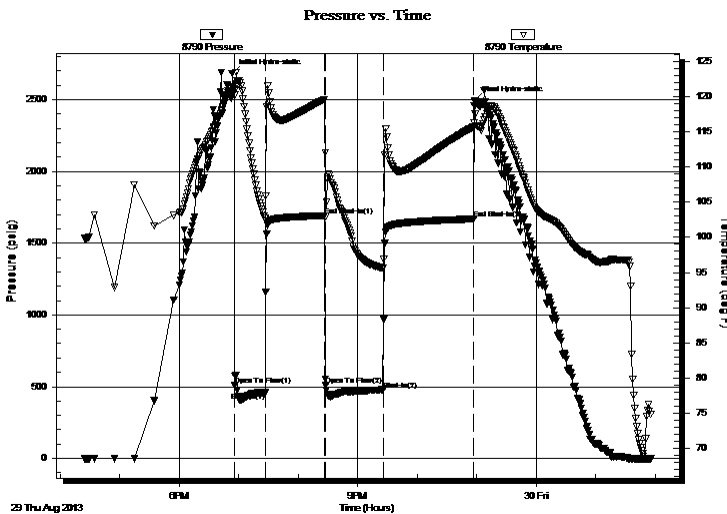
TEST COMMENT: IF: Strong blow . BOB 15 sec. GTS @ 3 min. Merla gauged

IS: No blow

FF: Strong blow . BOB immed. Merla gauged

FS: Weak blow . surf. - 2"

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2679.79 | 120.73 | Initial Hydro-static |
| 3 | 509.68 | 120.20 | Open To Flow (1) |
| 34 | 458.36 | 102.67 | Shut-In(1) |
| 93 | 1692.68 | 119.60 | End Shut-In(1) |
| 95 | 512.33 | 102.98 | Open To Flow (2) |
| 153 | 478.23 | 95.65 | Shut-In(2) |
| 244 | 1668.92 | 115.75 | End Shut-In(2) |
| 245 | 2490.31 | 118.64 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------------|--------------|
| 170.00 | GCM 5%gas, 95%mud | 0.84 |
| | | |
| | | |
| | | |
| | | |

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

McCoy Petroleum Corp.

30-30s-31w Haskell, KS

8080 E. Central Ste. 300
Wichita, KS 67206-2386

Fitzgerald A #5-30

Job Ticket: 52451

DST#: 2

ATTN: Dave Williams

Test Start: 2013.08.29 @ 16:24:35

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 5034.00 ft | Diameter: 3.80 inches | Volume: 70.61 bbl | Tool Weight: 2500.00 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: 217.00 ft | Diameter: 2.25 inches | Volume: 1.07 bbl | Weight to Pull Loose: 98000.00 lb |
| | | | <u>Total Volume: 71.68 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 9.00 ft | | | String Weight: Initial 86000.00 lb |
| Depth to Top Packer: | 5268.00 ft | | | Final 87000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 60.00 ft | | | |
| Tool Length: | 86.00 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 | | | 5247.00 | |
| Hydraulic tool | 5.00 | | | 5252.00 | |
| Jars | 5.00 | | | 5257.00 | |
| Safety Joint | 2.00 | | | 5259.00 | |
| Packer | 5.00 | | | 5264.00 | 26.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 5268.00 | |
| Stubb | 1.00 | | | 5269.00 | |
| Recorder | 0.00 | 8790 | Inside | 5269.00 | |
| Recorder | 0.00 | 8792 | Outside | 5269.00 | |
| Perforations | 4.00 | | | 5273.00 | |
| Change Over Sub | 1.00 | | | 5274.00 | |
| Drill Pipe | 32.00 | | | 5306.00 | |
| Change Over Sub | 1.00 | | | 5307.00 | |
| Perforations | 18.00 | | | 5325.00 | |
| Bullnose | 3.00 | | | 5328.00 | 60.00 Bottom Packers & Anchor |

Total Tool Length: 86.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

McCoy Petroleum Corp.
8080 E. Central Ste. 300
Wichita, KS 67206-2386
ATTN: Dave Williams

30-30s-31w Haskell, KS
Fitzgerald A #5-30
Job Ticket: 52451 **DST#: 2**
Test Start: 2013.08.29 @ 16:24:35

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: | 3800 ppm |
| Viscosity: 54.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 9.19 in ³ | Gas Cushion Type: | | |
| Resistivity: ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: 3800.00 ppm | | | |
| Filter Cake: 0.02 inches | | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------------|---------------|
| 170.00 | GCM 5%gas, 95%mud | 0.836 |

Total Length: 170.00 ft Total Volume: 0.836 bbl
 Num Fluid Samples: 1 Num Gas Bombs: 2 Serial #: RR-2
 Laboratory Name: Caraway Laboratory Location: Liberal, KS
 Recovery Comments:

Serial #: 8790

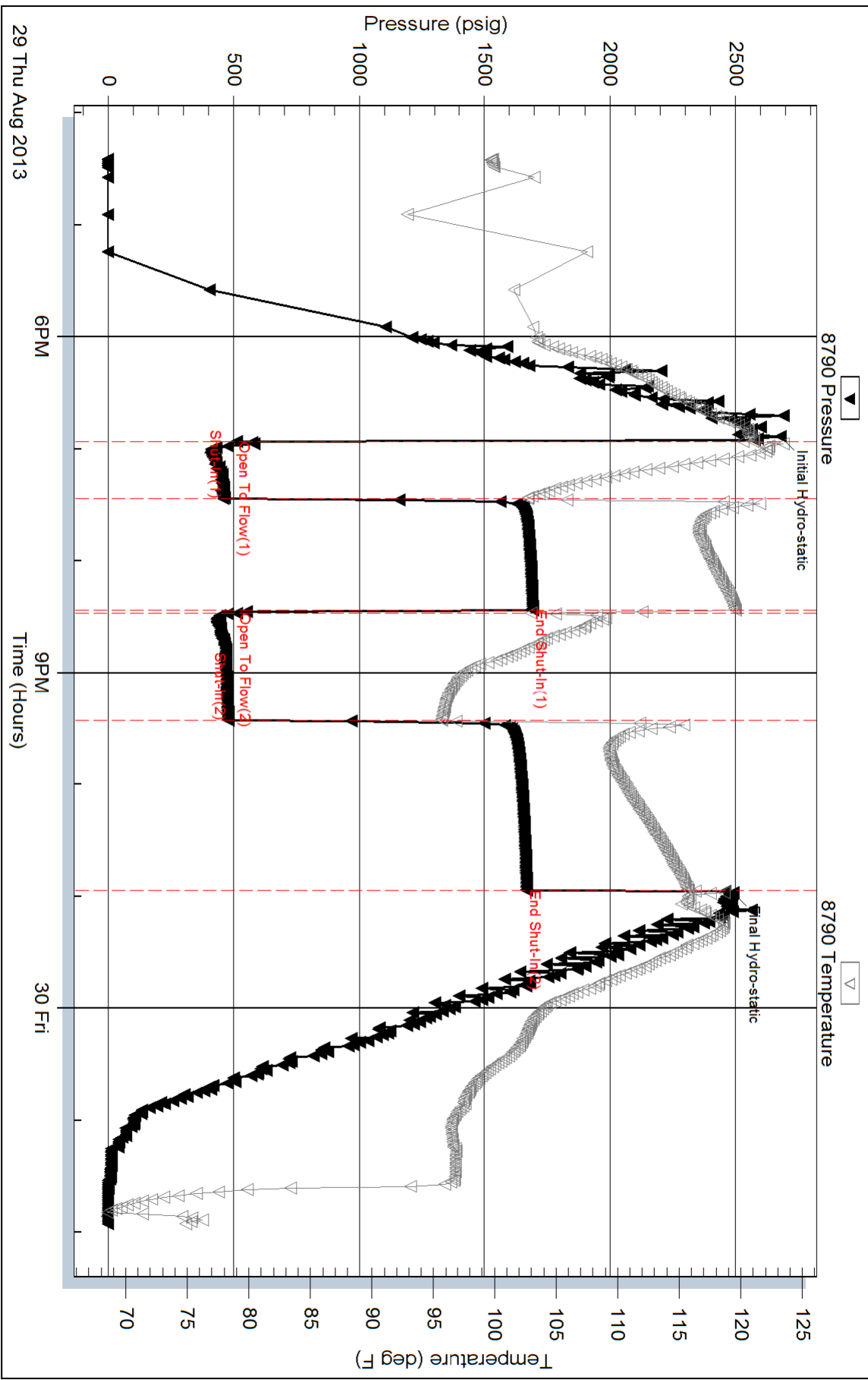
Inside

McCoy Petroleum Corp.

Fitzgerald A #5-30

DST Test Number: 2

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 52451

Printed: 2013.09.03 @ 15:59:24

Serial #: 8792

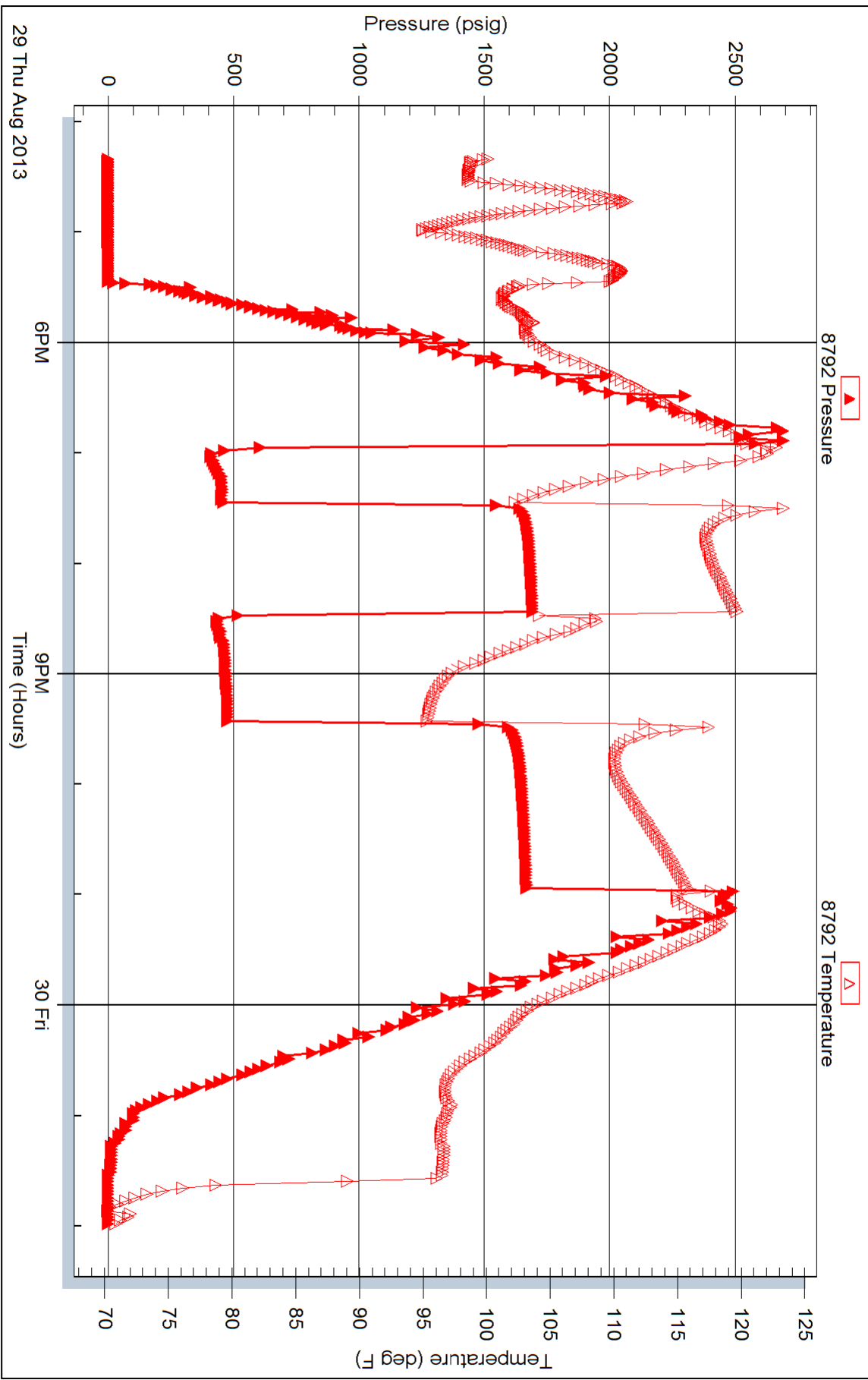
Outside

McCoy Petroleum Corp.

Fitzgerald A #5-30

DST Test Number: 2

Pressure vs. Time





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52350

4/10

Well Name & No. Fitzgerald "A" 5-30 Test No. 1 Date 8-26-13
 Company McLoy Petro. Corp. Elevation 2857 KB 2846 GL
 Address 8080 E. Central Ste. 300 Wichita, KS 67206-2386
 Co. Rep / Geo. Dave Williams Rig Sterling #2
 Location: Sec. 30 Twp. 30s Rge. 31w. Co. Haskell State KS

Interval Tested 4666 - 4688 Zone Tested Swope
 Anchor Length 22 Drill Pipe Run 4461 Mud Wt. 9.1
 Top Packer Depth 4661 Drill Collars Run 186 Vis 57
 Bottom Packer Depth 4666 Wt. Pipe Run Ø WL 8.0
 Total Depth 4688 Chlorides 3000 ppm System LCM 3#

Blow Description IF: Strong blow. BOBE 1 min. No GTS
ISI: Weak blow. surf. - 2"
FF: Strong blow. BOBE @ immed. GTS @ 10 min. Guaged throughout
FSL: Good blow. surf. - 7"

| Rec | Feet of | %gas | %oil | %water | %mud |
|------------|--|-----------|-----------|-----------|-----------|
| <u>80</u> | <u>Feet of WGMO</u> | <u>20</u> | <u>48</u> | <u>2</u> | <u>30</u> |
| <u>185</u> | <u>Feet of WMGO</u> | <u>25</u> | <u>57</u> | <u>9</u> | <u>9</u> |
| <u>65</u> | <u>Feet of MWOG</u> | <u>36</u> | <u>30</u> | <u>27</u> | <u>7</u> |
| Rec | Feet of <u>(intervals of free oil in stds)</u> | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |

Rec Total 330 BHT 123 Gravity 41 API RW .095 @ 80 °F Chlorides 71000 ppm
 (A) Initial Hydrostatic 2518 Test 1250 T-On Location 1830
 (B) First Initial Flow 48 Jars 250 T-Started 2105
 (C) First Final Flow 82 Safety Joint 75 T-Open 0003
 (D) Initial Shut-In 712 Circ Sub _____ T-Pulled 0403
 (E) Second Initial Flow 81 Hourly Standby 2 3/4 T-Out 0714
 (F) Second Final Flow 130 Mileage 272 168rt 260.40
 (G) Final Shut-In 723 Sampler _____
 (H) Final Hydrostatic 2242 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90
 Sub Total 0
 Total 1835.40
 MP/DST Disc't _____
 Sub Total 1835.40

Approved By Dave Williams Our Representative Ryan Reynolds

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. 52451

Well Name & No. Fitzgerald "A" 5-30 Test No. 2 Date 8-29-13
 Company McLoy Petro. Corp. Elevation 2857 KB 2846 GL
 Address 8080 E. Central Ste. 300 Wichita, KS 67206-2386
 Co. Rep / Geo. Dave Williams / Evan Stone Rig Sterling #2
 Location: Sec. 30 Twp. 30s. Rge. 31w. Co. Haskell State KS

Interval Tested 5268 - 5328 Zone Tested Morrow SS
 Anchor Length 60 Drill Pipe Run 5034 Mud Wt. 8.9+
 Top Packer Depth 5263 Drill Collars Run 217 Vis 54
 Bottom Packer Depth 5268 Wt. Pipe Run Ø WL 9.2
 Total Depth 5328 Chlorides 3800 ppm System LCM 3#
 Blow Description IF: Strong blow. BOB 15 sec. GTSE 3 min. IST: No blow
FF: Strong blow. BOB immed. Gauged gas throughout
FST: Weak blow. surf. - 2"

| Rec | Feet of | %gas | %oil | %water | %mud |
|-----|---------|------|------|--------|------|
| 170 | GLM | 5 | | 95 | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Rec Total 170 BHT 119 Gravity N/C API RW N/C @ N/C °F Chlorides 3800 ppm
 (A) Initial Hydrostatic 2680 Test 1350 T-On Location 1430
 (B) First Initial Flow 510 Jars 250 T-Started 1625
 (C) First Final Flow 458 Safety Joint 75 T-Open 1856
 (D) Initial Shut-In 1693 Circ Sub _____ T-Pulled 2256
 (E) Second Initial Flow 512 Hourly Standby _____ T-Out 0156
 (F) Second Final Flow 478 Mileage 272 260.40 Comments _____
 (G) Final Shut-In 1669 Sampler _____
 (H) Final Hydrostatic 2490 Straddle _____
 Shale Packer _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby 2 days 8/27-8/29 Sub Total 1041.67
 1d 31.25h Total 2977.07
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1935.40

Approved By [Signature] 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.

