



## DRILL STEM TEST REPORT

Prepared For: **McCoy Petroleum Corp.**

9342 E. Central  
Wichita KS 67206

ATTN: Dave Williams

### **MTPRC B #4-22**

### **22-30s-19w Kiowa,KS**

Start Date: 2014.06.14 @ 17:38:19

End Date: 2014.06.15 @ 03:55:49

Job Ticket #: 54219                      DST #: 1

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

Printed: 2014.06.17 @ 09:00:43



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

McCoy Petroleum Corp.

**22-30s-19w Kiowa, KS**

9342 E. Central  
Wichita KS 67206

**MTPRC B #4-22**

Job Ticket: 54219

**DST#: 1**

ATTN: Dave Williams

Test Start: 2014.06.14 @ 17:38:19

## GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:22:04

Time Test Ended: 03:55:49

Test Type: Conventional Bottom Hole (Initial)

Tester: Gary Pevoteaux

Unit No: 56

**Interval: 4858.00 ft (KB) To 4938.00 ft (KB) (TVD)**

Reference Elevations: 2233.00 ft (KB)

Total Depth: 4938.00 ft (KB) (TVD)

2220.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

**Serial #: 8352 Outside**

Press@RunDepth: 41.46 psig @ 4859.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.14

End Date:

2014.06.15

Last Calib.:

2014.06.15

Start Time:

17:38:24

End Time:

03:55:49

Time On Btm:

2014.06.14 @ 20:21:04

Time Off Btm:

2014.06.15 @ 01:35:04

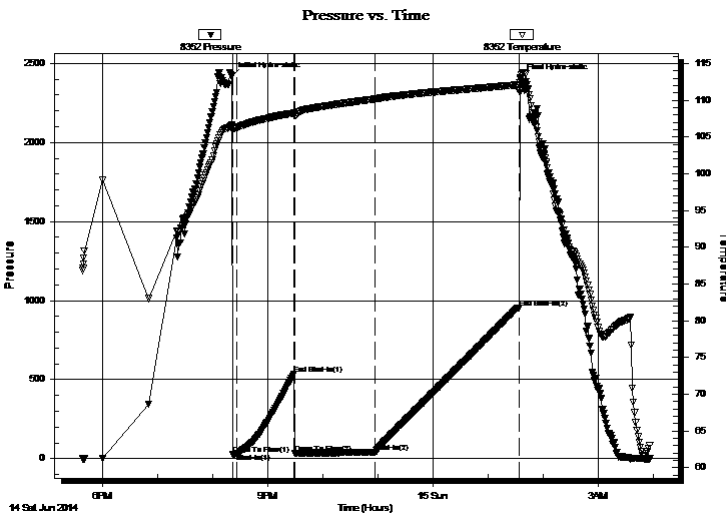
TEST COMMENT: IF:Weak blow . 1/2 - 1".

IS:No blow .

FF:Strong blow . B.O.B. in 12 mins.

FS:No blow .

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2419.20	106.63	Initial Hydro-static
1	25.34	105.91	Open To Flow (1)
6	31.48	106.30	Shut-In(1)
68	534.60	108.26	End Shut-In(1)
69	32.49	108.17	Open To Flow (2)
156	41.46	110.19	Shut-In(2)
313	952.61	112.10	End Shut-In(2)
314	2405.43	113.07	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
50.00	SOCM <1% 99+%m	0.25
0.00	1640 ft.of GIP	0.00

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

McCoy Petroleum Corp.

**22-30s-19w Kiowa,KS**

9342 E. Central  
Wichita KS 67206

**MTPRC B #4-22**

Job Ticket: 54219

**DST#: 1**

ATTN: Dave Williams

Test Start: 2014.06.14 @ 17:38:19

## Tool Information

Drill Pipe:	Length: 4553.00 ft	Diameter: 3.80 inches	Volume: 63.87 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 300.00 ft	Diameter: 2.25 inches	Volume: 1.48 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 65.35 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4858.00 ft			Final 83000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	80.00 ft			
Tool Length:	108.00 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			4831.00	
Shut In Tool	5.00			4836.00	
Hydraulic tool	5.00			4841.00	
Jars	5.00			4846.00	
Safety Joint	3.00			4849.00	
Packer	4.00			4853.00	28.00 Bottom Of Top Packer
Packer	5.00			4858.00	
Stubb	1.00			4859.00	
Recorder	0.00	8352	Outside	4859.00	
Recorder	0.00	8370	Inside	4859.00	
Perforations	4.00			4863.00	
Blank Spacing	64.00			4927.00	
Perforations	6.00			4933.00	
Bullnose	5.00			4938.00	80.00 Bottom Packers & Anchor

**Total Tool Length: 108.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

McCoy Petroleum Corp.

**22-30s-19w Kiowa,KS**

9342 E. Central  
Wichita KS 67206

**MTPRC B #4-22**

Job Ticket: 54219

**DST#: 1**

ATTN: Dave Williams

Test Start: 2014.06.14 @ 17:38:19

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

5000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.20 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	SOCM <1%o 99+%m	0.246
0.00	1640 ft.of GIP	0.000

Total Length: 50.00 ft      Total Volume: 0.246 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

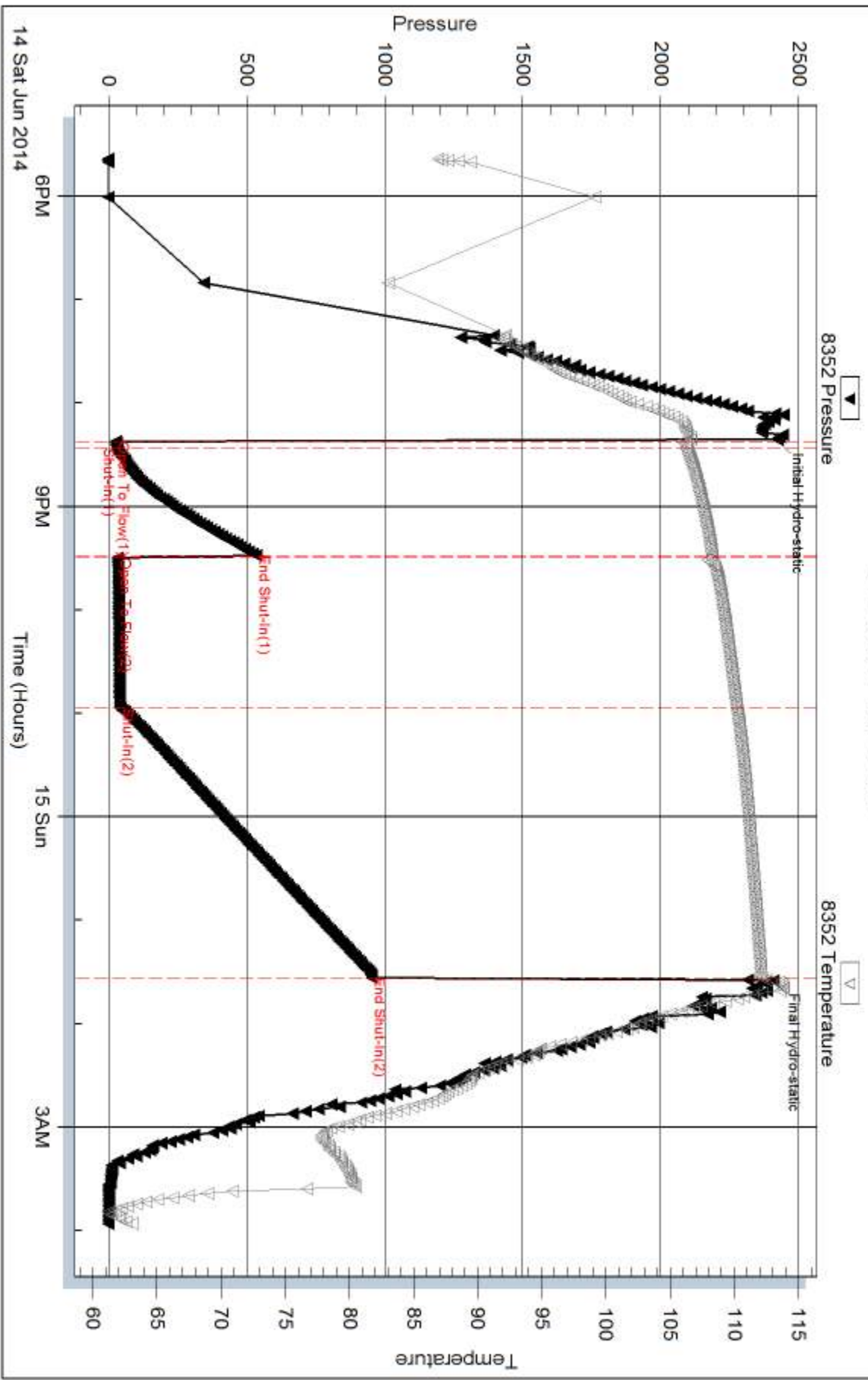
Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time



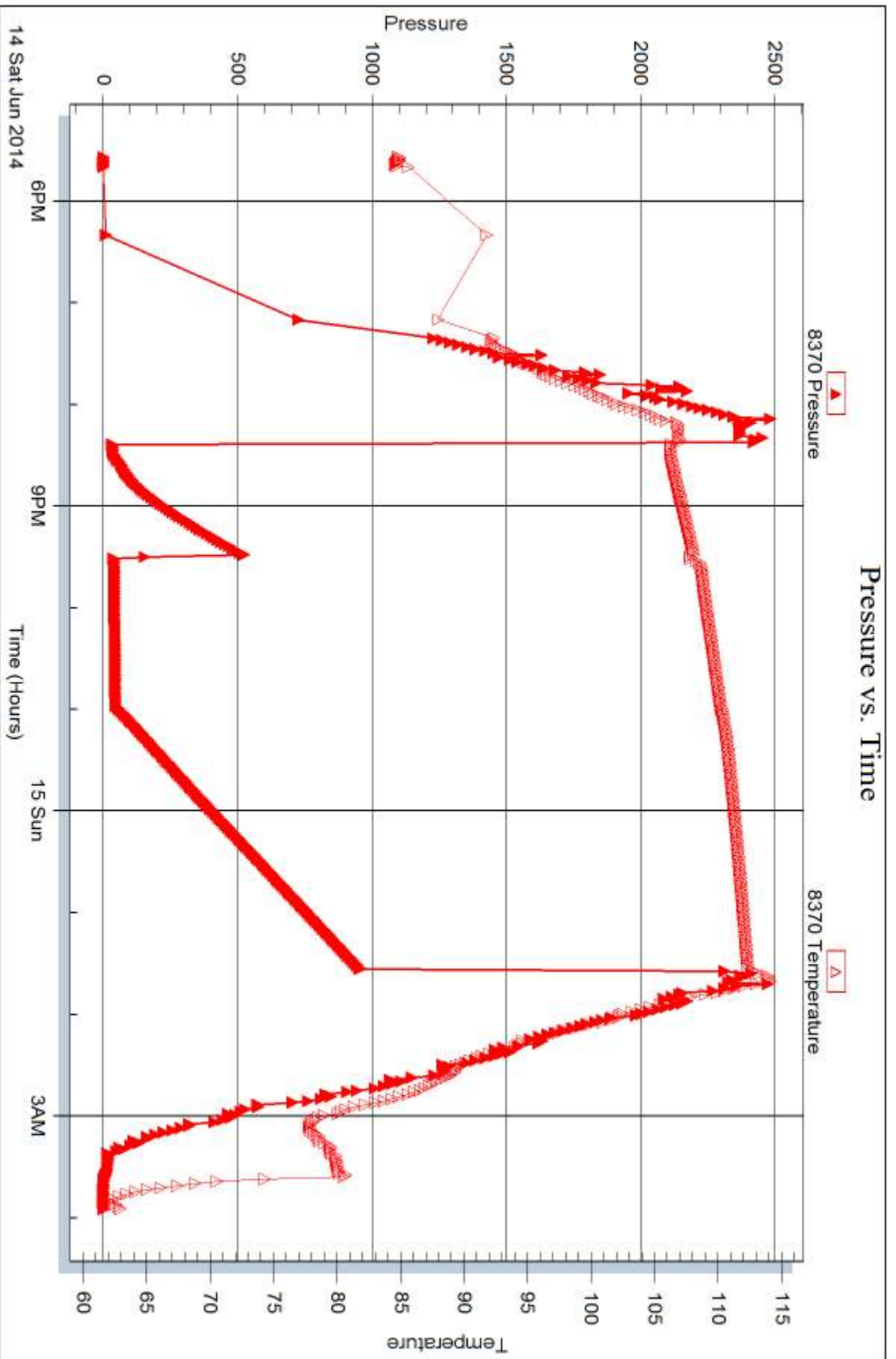
Serial #: 8370

Inside

McCoy Petroleum Corp.

MTRRC B #4-22

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 54219

Printed: 2014.06.17 @ 09:00:45



## DRILL STEM TEST REPORT

Prepared For: **McCoy Petroleum Corp.**

9342 E. Central  
Wichita KS 67206

ATTN: Dave Williams

### **MTPRC B #4-22**

### **22-30s-19w Kiowa,KS**

Start Date: 2014.06.15 @ 19:49:54

End Date: 2014.06.16 @ 05:53:09

Job Ticket #: 54220                      DST #: 2

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

Printed: 2014.06.17 @ 08:57:18





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

McCoy Petroleum Corp.

**22-30s-19w Kiowa,KS**

9342 E. Central  
Wichita KS 67206

**MTPRC B #4-22**

Job Ticket: 54220

**DST#: 2**

ATTN: Dave Williams

Test Start: 2014.06.15 @ 19:49:54

## GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:26:39

Time Test Ended: 05:53:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Gary Pevoteaux

Unit No: 56

**Interval: 5080.00 ft (KB) To 5124.00 ft (KB) (TVD)**

Total Depth: 5124.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2233.00 ft (KB)

2220.00 ft (CF)

KB to GR/CF: 13.00 ft

**Serial #: 8352 Outside**

Press@RunDepth: 146.30 psig @ 5081.00 ft (KB)

Start Date: 2014.06.15

End Date:

2014.06.16

Start Time: 19:49:59

End Time:

05:53:09

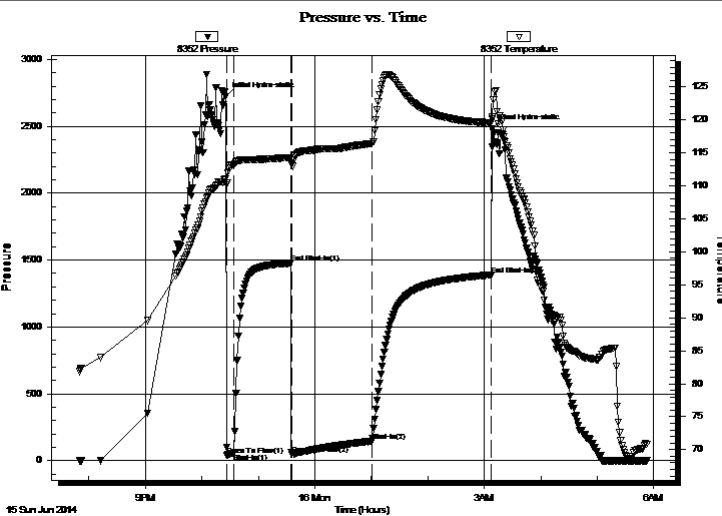
Capacity: 8000.00 psig

Last Calib.: 2014.06.16

Time On Btm: 2014.06.15 @ 22:24:54

Time Off Btm: 2014.06.16 @ 03:08:24

**TEST COMMENT:** IF:Strong blow . B.O.B. in 45 secs.  
IS:Weak blow . 1/2"  
FF:Strong blow . B.OB. in 2 - 3 secs. GTS in 12 mins.(see gas flow report)  
FS:Stron blow . B.O.B.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2721.41	111.07	Initial Hydro-static
2	41.98	110.47	Open To Flow (1)
10	58.74	113.19	Shut-In(1)
70	1476.76	114.30	End Shut-In(1)
71	46.07	113.35	Open To Flow (2)
156	146.30	116.41	Shut-In(2)
283	1389.28	119.55	End Shut-In(2)
284	2480.35	120.09	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
235.00	GM&OCW 20%g 18%m 30%o 32%w	1.16
125.00	GOCWM 14%g 14%o 34%w 38%m	1.16
70.00	GCM/w o specs 21%g 79%m	0.98

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	7.00	33.95
Last Gas Rate	0.25	10.00	38.71
Max. Gas Rate	0.25	10.00	38.71

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

McCoy Petroleum Corp.

**22-30s-19w Kiowa,KS**

9342 E. Central  
Wichita KS 67206

**MTPRC B #4-22**

Job Ticket: 54220

**DST#: 2**

ATTN: Dave Williams

Test Start: 2014.06.15 @ 19:49:54

## Tool Information

Drill Pipe:	Length: 4777.00 ft	Diameter: 3.80 inches	Volume: 67.01 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 300.00 ft	Diameter: 2.25 inches	Volume: 1.48 bbl	Weight to Pull Loose: 105000.0 lb
			<u>Total Volume: 68.49 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 86000.00 lb
Depth to Top Packer:	5080.00 ft			Final 87500.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	72.00 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			5053.00	
Shut In Tool	5.00			5058.00	
Hydraulic tool	5.00			5063.00	
Jars	5.00			5068.00	
Safety Joint	3.00			5071.00	
Packer	4.00			5075.00	28.00 Bottom Of Top Packer
Packer	5.00			5080.00	
Stubb	1.00			5081.00	
Recorder	0.00	8352	Outside	5081.00	
Recorder	0.00	8370	Inside	5081.00	
Perforations	4.00			5085.00	
Blank Spacing	32.00			5117.00	
Perforations	2.00			5119.00	
Bullnose	5.00			5124.00	44.00 Bottom Packers & Anchor

**Total Tool Length: 72.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

McCoy Petroleum Corp.

**22-30s-19w Kiowa,KS**

9342 E. Central  
Wichita KS 67206

**MTPRC B #4-22**

Job Ticket: 54220

**DST#: 2**

ATTN: Dave Williams

Test Start: 2014.06.15 @ 19:49:54

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

90000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
235.00	GM&OCW 20%g 18%m 30%o 32%w	1.156
125.00	GOCWM 14%g 14%o 34%w 38%m	1.161
70.00	GCM /w o specs 21%g 79%m	0.982

Total Length: 430.00 ft Total Volume: 3.299 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

Serial #: gp-2

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments: Rw .075 ohms@83 deg



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**GAS RATES**

McCoy Petroleum Corp.

**22-30s-19w Kiowa,KS**

9342 E. Central  
Wichita KS 67206

**MTPRC B #4-22**

Job Ticket: 54220

**DST#: 2**

ATTN: Dave Williams

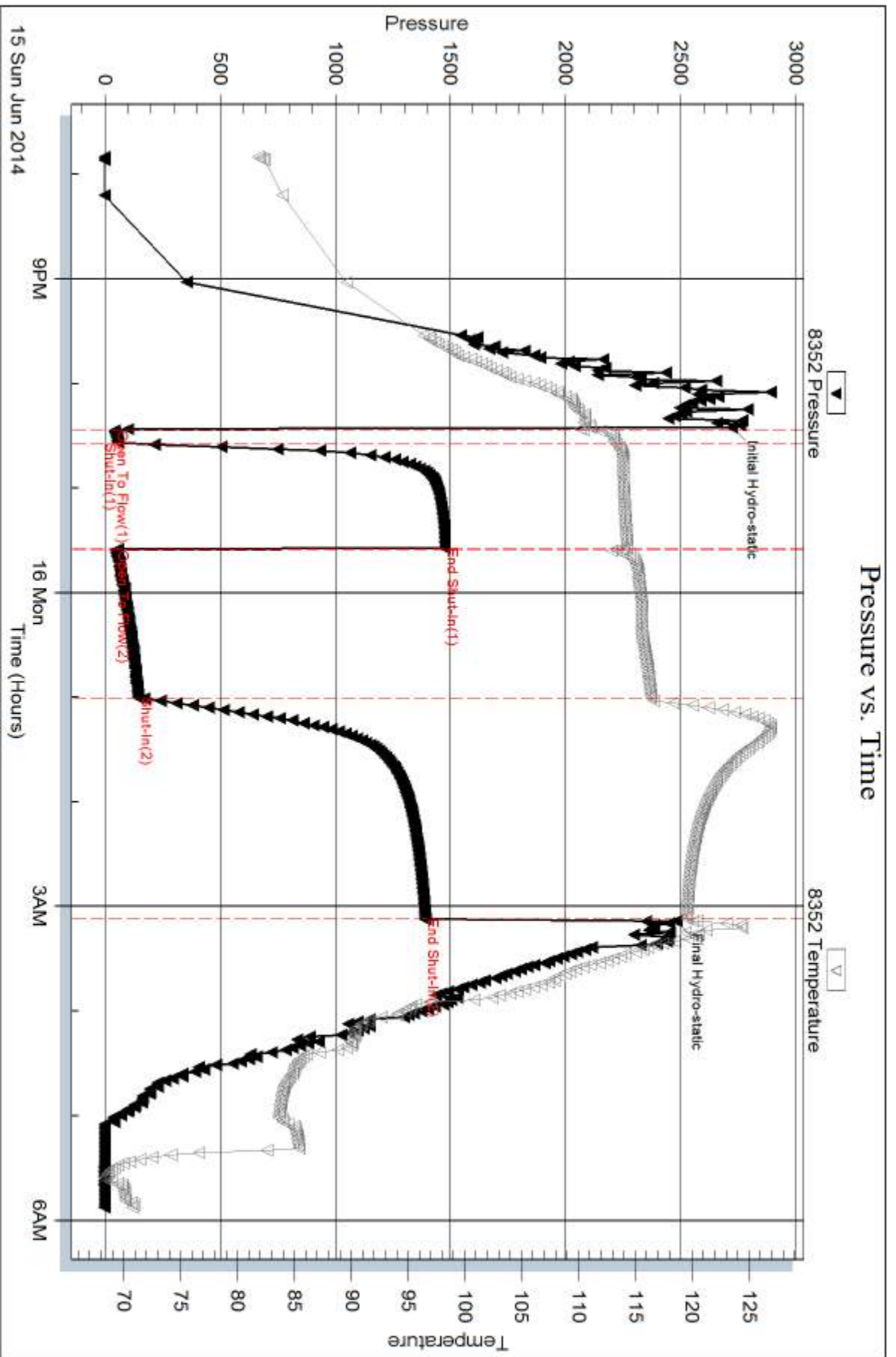
Test Start: 2014.06.15 @ 19:49:54

### 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	20	0.25	7.00	33.95
2	30	0.25	8.00	35.54
2	40	0.25	9.00	37.12
2	50	0.25	10.00	38.71
2	60	0.25	10.00	38.71
2	70	0.25	10.00	38.71
2	80	0.25	10.00	38.71
2	90	0.25	10.00	38.71



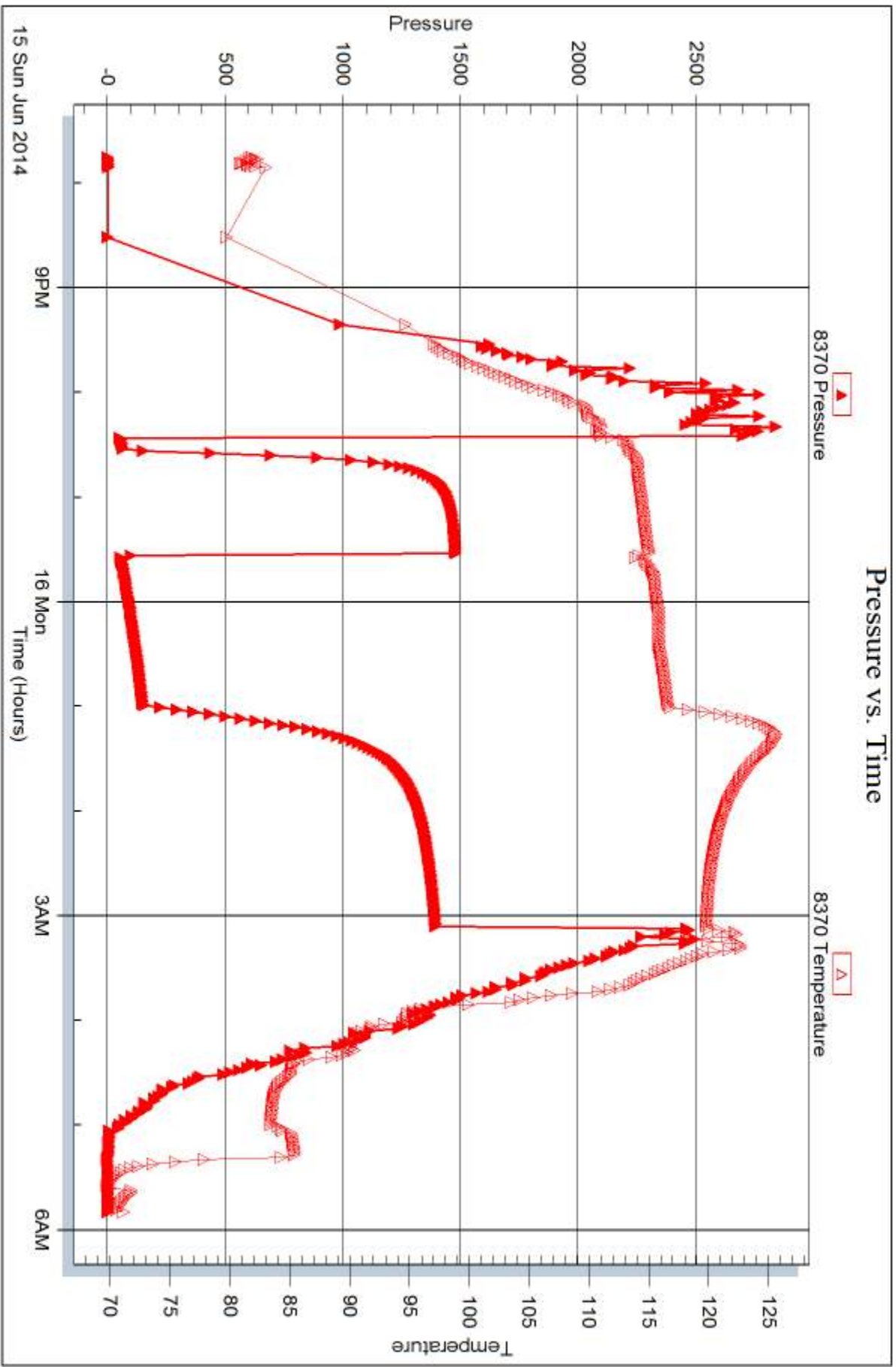
Serial #: 8370

Inside

McCoy Petroleum Corp.

MTRRC B #4-22

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 54220

Printed: 2014.06.17 @ 08:57:19



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 54219

4/10

Well Name & No. MTPRC "B" # 4-22 Test No. 1 Date 6-14-14  
 Company McCoy Petroleum Corp. Elevation 2293 KB 2230 GL  
 Address 9342 E. CENTRAL, WICHITA Ks. 67206  
 Co. Rep / Geo. DAVE WILLIAMS Rig STERLING DRIG. #5  
 Location: Sec. 22 Twp. 30S Rge. 19W Co. KIOWA State Ks.

Interval Tested 4858 - 4938' Zone Tested MARMATON  
 Anchor Length 80' Drill Pipe Run 4553' Mud Wt. 9.5  
 Top Packer Depth 4853' Drill Collars Run 300' Vis 52  
 Bottom Packer Depth 4858' Wt. Pipe Run 0 WL 9.2 cc  
 Total Depth 4938' Chlorides 5,000 ppm System LCM 2#  
 Blow Description IF: Weak blow. 1/2 - 1". IST: No blow.

FF: Strong blow. B.O.B. in 12 mins. FST: No blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>1640</u>	<u>Gas in pipe</u>				
<u>50</u>	<u>SOEM</u>	<u>&lt;1</u>		<u>99+</u>	

Rec Total 50 Fluid BHT 1120 Gravity N/A API RW NC. @ — °F Chlorides 5000 ppm

(A) Initial Hydrostatic <u>2419</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>1645</u>
(B) First Initial Flow <u>25</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1738</u>
(C) First Final Flow <u>31</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>2022</u>
(D) Initial Shut-In <u>535</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>0133</u>
(E) Second Initial Flow <u>32</u>	<input checked="" type="checkbox"/> Hourly Standby <u>61</u>	T-Out <u>0355</u>
(F) Second Final Flow <u>41</u>	<input checked="" type="checkbox"/> Mileage <u>1067</u> <u>164.30</u>	Comments
(G) Final Shut-In <u>953</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2405</u>	<input type="checkbox"/> Straddle	

Initial Open 5  
 Initial Shut-In 60  
 Final Flow 90  
 Final Shut-In 150 ~~120~~

Ruined Shale Packer  
 Ruined Packer  
 Extra Copies  
 Sub Total 0  
 Total 1739.30  
 MP/DST Disc't

30 MINS. WAITING ON STORM, DAVE WILLIAMS  
Approved By

Our Representative Gary Swoboda

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. 54220

4/10

Well Name & No. MIPRC B #4-22 Test No. 2 Date 6-15-14  
 Company McCOMB PETRO. CORP. Elevation 2233 KB 2220 GL  
 Address 9342 E. CENTRAL, WICHITA KS. 67206  
 Co. Rep / Geo. DAVE WILLIAMS Rig STERLING DRILLING #5  
 Location: Sec. 22 Twp. 30<sup>S</sup> Rge. 19W Co. KIOWA State KS.

Interval Tested 5080 - 5124' Zone Tested MISS.  
 Anchor Length 44' Drill Pipe Run 4777' Mud Wt. 9.2  
 Top Packer Depth 5075' Drill Collars Run 300' Vis 57  
 Bottom Packer Depth 5080' Wt. Pipe Run 0 WL 9.6cc  
 Total Depth 5124' Chlorides 6,000 ppm System LCM 2#

Blow Description IF: Strong blow. B.O.B. in 4.5 sec. ISI: Weak blow. 1/2"

FF: Strong blow. B.O.B. in 2-3 sec. - GTS in 12 mins. (see gas flow report) FSI: Strong blow. B.O.B.

Rec	Feet of	%gas	%oil	%water	%mud
<u>70</u>	<u>GCM/WOSPES</u>	<u>21</u>		<u>79</u>	
<u>125</u>	<u>GOCWM</u>	<u>14</u>	<u>14</u>	<u>34</u>	<u>38</u>
<u>235</u>	<u>GM EOCW</u>	<u>20</u>	<u>30</u>	<u>32</u>	<u>18</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 430 Flow BHT Gravity N/A API RW .025@ 83 °F Chlorides 90,000 ppm

(A) Initial Hydrostatic 2721  Test 1450 T-On Location 1909  
 (B) First Initial Flow 42  Jars 250 T-Started 1949  
 (C) First Final Flow 59  Safety Joint 75 T-Open 2226  
 (D) Initial Shut-In 1477  Circ Sub \_\_\_\_\_ T-Pulled 0306  
 (E) Second Initial Flow 46  Hourly Standby \_\_\_\_\_ T-Out 0553  
 (F) Second Final Flow 146  Mileage 100A 164.30 Comments \_\_\_\_\_  
 (G) Final Shut-In 1389  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2480  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_

Initial Open 5  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Shut-In 60  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Flow 90  Day Standby \_\_\_\_\_ Total 1839.30  
 Final Shut-In 120  Accessibility \_\_\_\_\_ MP/DST Disc \_\_\_\_\_

Approved By [Signature] Our Representative [Signature]  
 Sub Total 1839.30

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