



## DRILL STEM TEST REPORT

Prepared For: **McCoy Petroleum Corporation**

9342 E. Central  
Wichita, KS 67206

ATTN: Zach Wiele

**HWY 'A' #1-25**

**25-30s-19w Kiowa,KS**

Start Date: 2014.10.27 @ 03:21:59

End Date: 2014.10.27 @ 17:55:29

Job Ticket #: 57788                      DST #: 1

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.11.11 @ 09:45:03



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

McCoy Petroleum Corporation

**25-30s-19w Kiowa,KS**

9342 E. Central  
Wichita, KS 67206

**HWY 'A' #1-25**

Job Ticket: 57788

**DST#: 1**

ATTN: Zach Wiele

Test Start: 2014.10.27 @ 03:21:59

## GENERAL INFORMATION:

Formation: **Marmaton 'B'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:02:14

Time Test Ended: 17:55:29

Test Type: Conventional Bottom Hole (Initial)

Tester: Matt Smith

Unit No: 53

**Interval: 4905.00 ft (KB) To 4956.00 ft (KB) (TVD)**

Reference Elevations: 2241.00 ft (KB)

Total Depth: 4956.00 ft (KB) (TVD)

2232.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

**Serial #: 6773**

**Inside**

Press@RunDepth: 312.16 psig @ 4906.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.10.27

End Date:

2014.10.27

Last Calib.:

2014.10.27

Start Time: 03:22:04

End Time:

17:55:29

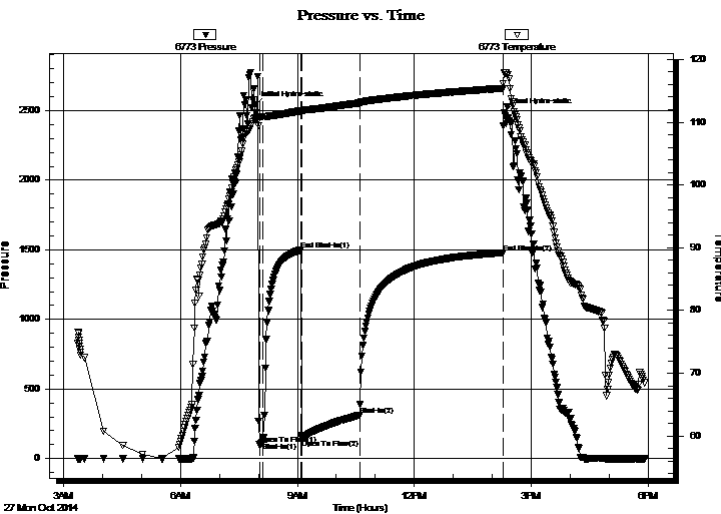
Time On Btm:

2014.10.27 @ 07:54:14

Time Off Btm:

2014.10.27 @ 14:18:14

**TEST COMMENT:** IF: Fair - strong blow . B.O.B. in 1 1/2 mins.  
IS: Weak blow . Bleed off in 5 mins. 2 mins., Surf., - 1/4".  
FF: Fair - strong blow . B.O.B. in 5 mins.  
FS: Weak blow . Bleed off 3 mins. 3 mins, Surf., - 2 1/2". 67 mins in died back to 1 1/2".



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2539.18	110.69	Initial Hydro-static
8	99.39	110.75	Open To Flow (1)
13	119.10	110.86	Shut-In(1)
72	1499.15	111.81	End Shut-In(1)
73	141.62	111.74	Open To Flow (2)
162	312.16	113.06	Shut-In(2)
382	1478.15	115.40	End Shut-In(2)
384	2486.68	117.94	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	GMOCW 1%g 3%m 4%o 92%w	0.30
342.00	Slt OGMCW 2%g 5%m 93%w	3.37
128.00	OWGCM 13%o 20%w 27%g 40%m	1.80
106.00	GOWCM 5%g 20%o 25%w 50%m	1.49
0.00	1,142' G.I.P. 100%g	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

McCoy Petroleum Corporation

25-30s-19w Kiowa,KS

9342 E. Central  
Wichita, KS 67206

HWY 'A' #1-25

Job Ticket: 57788

DST#: 1

ATTN: Zach Wiele

Test Start: 2014.10.27 @ 03:21:59

## GENERAL INFORMATION:

Formation: **Marmaton 'B'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:02:14

Time Test Ended: 17:55:29

Test Type: Conventional Bottom Hole (Initial)

Tester: Matt Smith

Unit No: 53

Interval: **4905.00 ft (KB) To 4956.00 ft (KB) (TVD)**

Total Depth: 4956.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2241.00 ft (KB)

2232.00 ft (CF)

KB to GR/CF: 9.00 ft

**Serial #: 6719** **Outside**

Press@RunDepth: psig @ 4906.00 ft (KB)

Start Date: 2014.10.27

Start Time: 03:22:01

End Date: 2014.10.27

End Time: 17:55:11

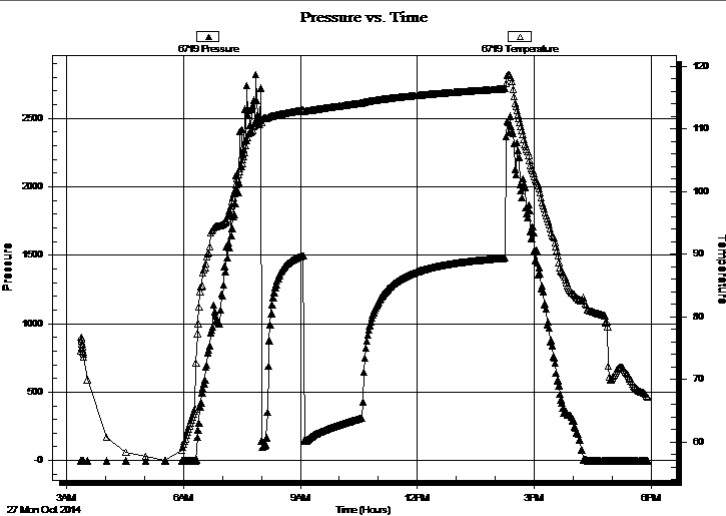
Capacity: 8000.00 psig

Last Calib.: 2014.10.27

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Fair - strong blow . B.O.B. in 1 1/2 mins.  
 IS: Weak blow . Bleed off in 5 mins. 2 mins., Surf., - 1/4".  
 FF: Fair - strong blow . B.O.B. in 5 mins.  
 FS: Weak blow . Bleed off 3 mins. 3 mins, Surf., - 2 1/2". 67 mins in died back to 1 1/2".



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	GMOCW 1%g 3%o 4%w 92%w	0.30
342.00	Slt OGMCW 2%g 5%o 93%w	3.37
128.00	OWGCM 13%g 20%o 27%w 40%m	1.80
106.00	GOWCM 5%g 20%o 25%w 50%m	1.49
0.00	1,142' G.I.P. 100%g	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

McCoy Petroleum Corporation

**25-30s-19w Kiowa,KS**

9342 E. Central  
Wichita, KS 67206

**HWY 'A' #1-25**

Job Ticket: 57788

**DST#: 1**

ATTN: Zach Wiele

Test Start: 2014.10.27 @ 03:21:59

## Tool Information

Drill Pipe:	Length: 4685.00 ft	Diameter: 3.80 inches	Volume: 65.72 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: 23000.00 lb
Drill Collar:	Length: 217.00 ft	Diameter: 2.25 inches	Volume: 1.07 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 66.79 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	4905.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	51.00 ft			
Tool Length:	79.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Stuck w alled, pulled loose at 191,000 popped loose and pulled 85000.

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4878.00	
Shut In Tool	5.00			4883.00	
Hydraulic tool	5.00			4888.00	
Jars	5.00			4893.00	
Safety Joint	3.00			4896.00	
Packer	4.00			4900.00	28.00 Bottom Of Top Packer
Packer	5.00			4905.00	
Stubb	1.00			4906.00	
Recorder	0.00	6719	Outside	4906.00	
Recorder	0.00	6773	Inside	4906.00	
Perforations	1.00			4907.00	
Change Over Sub	1.00			4908.00	
Blank Spacing	32.00			4940.00	
Change Over Sub	1.00			4941.00	
Perforations	12.00			4953.00	
Bullnose	3.00			4956.00	51.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>79.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

McCoy Petroleum Corporation

**25-30s-19w Kiowa,KS**

9342 E. Central  
Wichita, KS 67206

**HWY 'A' #1-25**

Job Ticket: 57788

**DST#: 1**

ATTN: Zach Wiele

Test Start: 2014.10.27 @ 03:21:59

### 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:

42000 ppm

Viscosity: 42.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 13.35 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 0.20 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GMOCW 1%g 3%m 4%o 92%w	0.295
342.00	Slit OGMCW 2%g 5%m 93%w	3.367
128.00	OWGCM 13%o 20%w 27%g 40%m	1.796
106.00	GOWCM 5%g 20%o 25%w 50%m	1.487
0.00	1,142' G.I.P. 100%g	0.000

Total Length: 636.00 ft

Total Volume:

6.945 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments: API RW .18 @ 68 = 42000 chlorides.

Serial #: 6773

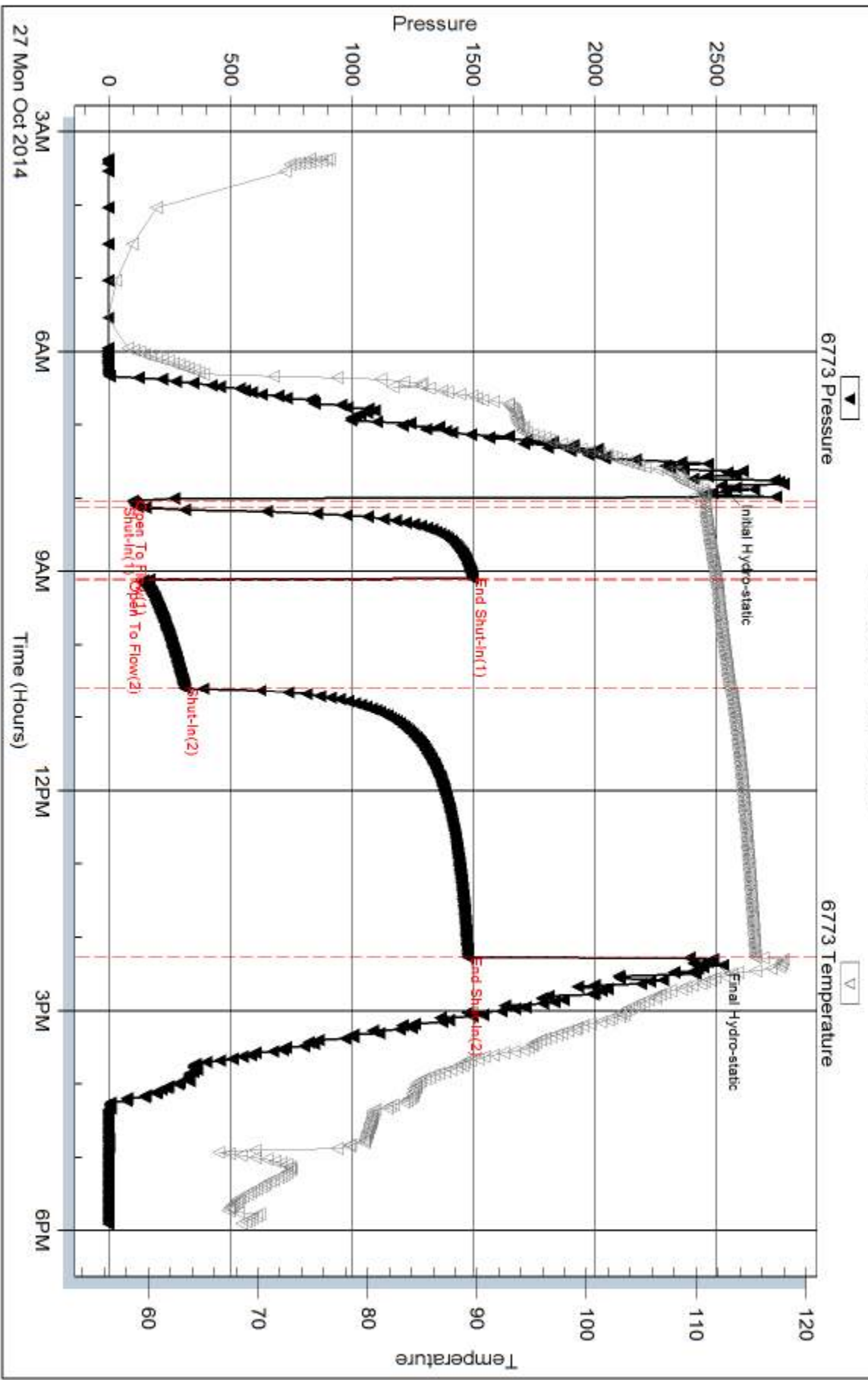
Inside

McCoy Petroleum Corporation

HWY 'A' #1-25

DST Test Number: 1

### Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 57788

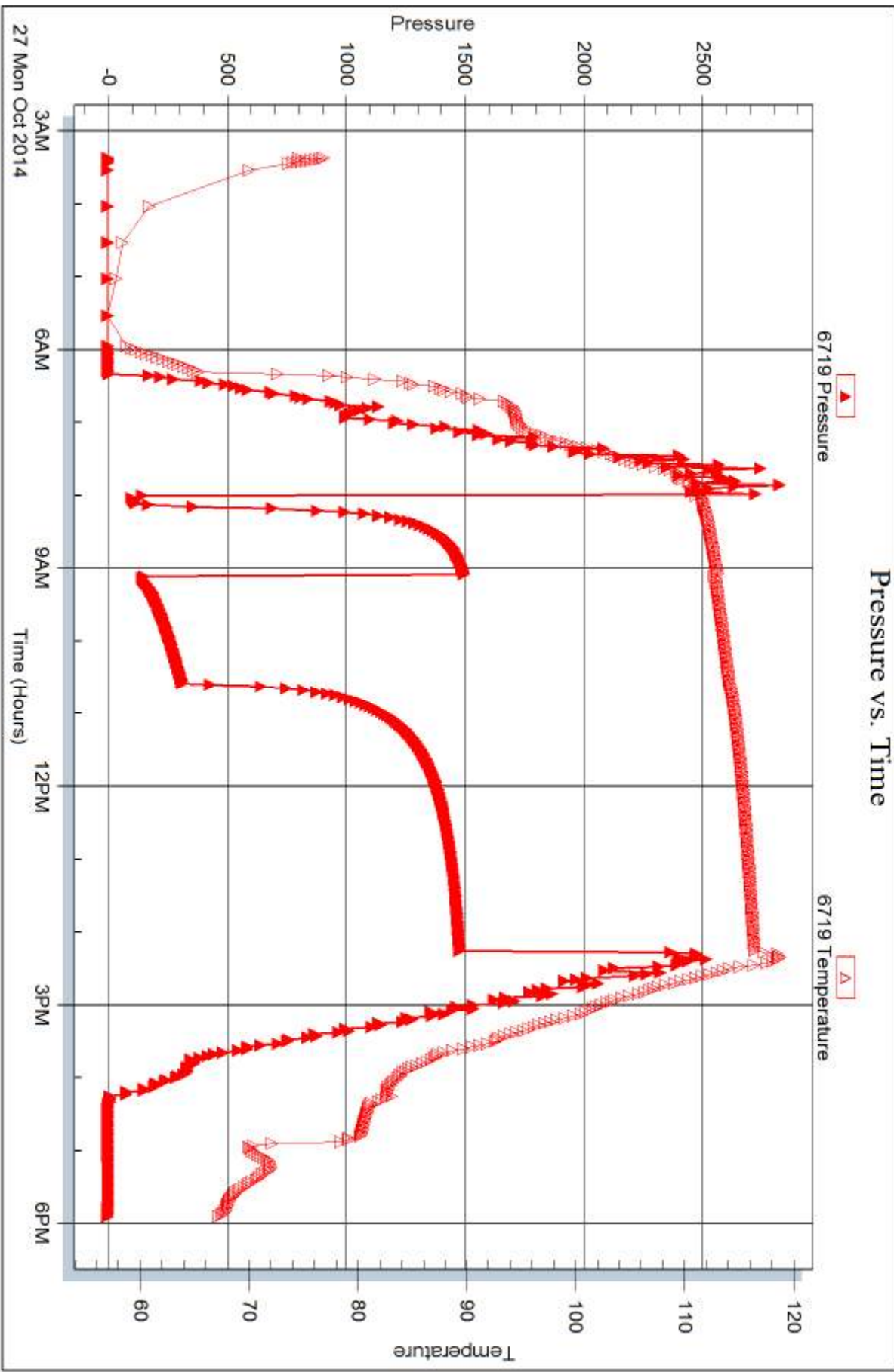
Printed: 2014.11.11 @ 09:45:04

Serial #: 6719

Outside McCoy Petroleum Corporation

HWY 'A' #1-25

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 57788

Printed: 2014.11.11 @ 09:45:04



## DRILL STEM TEST REPORT

Prepared For: **McCoy Petroleum Corporation**

9342 E. Central  
Wichita, KS 67206

ATTN: Zach Wiele

**HWY 'A' #1-25**

**25-30s-19w Kiowa,KS**

Start Date: 2014.10.28 @ 06:05:59

End Date: 2014.10.28 @ 00:00:00

Job Ticket #: 57789                      DST #: 2

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.11.11 @ 09:43:40





# DRILL STEM TEST REPORT

McCoy Petroleum Corporation

**25-30s-19w Kiowa,KS**

9342 E. Central  
Wichita, KS 67206

**HWY 'A' #1-25**

Job Ticket: 57789

**DST#: 2**

ATTN: Zach Wiele

Test Start: 2014.10.28 @ 06:05:59

## GENERAL INFORMATION:

Formation: **Spergen O**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 53

Interval: **5090.00 ft (KB) To 5121.00 ft (KB) (TVD)**

Reference Elevations: 2241.00 ft (KB)

Total Depth: 5121.00 ft (KB) (TVD)

2232.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

## Serial #: 6751

Press@RunDepth: psig @ ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.09.01

End Date: 2013.09.01

Last Calib.: 1899.12.30

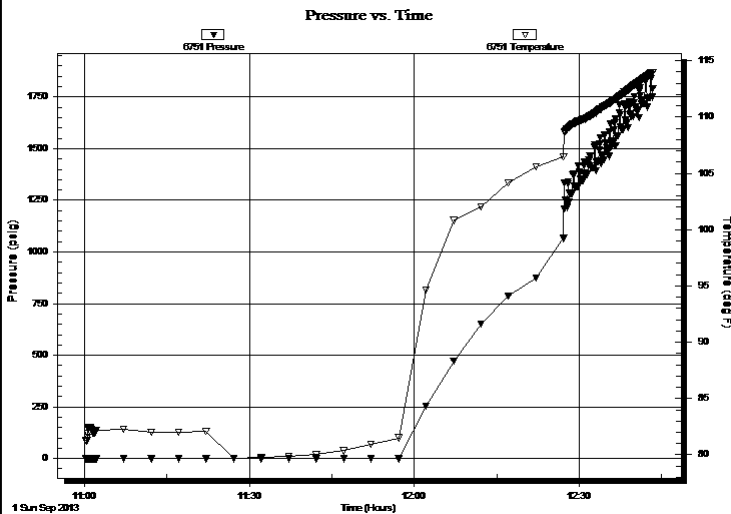
Start Time: 11:00:13

End Time: 12:43:20

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Strong blow . B.O.B. in 1- min.  
IS: No blow .  
FF: Strong blow . Immediate B.O.B. , G.T.S. in 68 mins. , T.S.T.M.  
FS: Weak blow . Surf. , - 1/4". Blow started after 12 mins.



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
210.00	GCM w/slt O&W 1%g 99%m	1.03
667.00	GCM w/ slt O&W 1%g 99%m	9.29
1461.00	GWCM w/slt O 5%g 5%w 90%m	20.49
254.00	OGCM 1%o 9%g 90%m	3.56
317.00	OGCM 3%o 27%g 70%m	4.45
40.00	GOCM 7%g 8%o 85%m	0.56

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

McCoy Petroleum Corporation

**25-30s-19w Kiowa,KS**

9342 E. Central  
Wichita, KS 67206

**HWY 'A' #1-25**

Job Ticket: 57789

**DST#: 2**

ATTN: Zach Wiele

Test Start: 2014.10.28 @ 06:05:59

## Tool Information

Drill Pipe:	Length: 4877.00 ft	Diameter: 3.80 inches	Volume: 68.41 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:	22000.00 lb
Drill Collar:	Length: 217.00 ft	Diameter: 2.25 inches	Volume: 1.07 bbl	Weight to Pull Loose:	179000.0 lb
			<u>Total Volume: 69.48 bbl</u>	Tool Chased	3.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial	80000.00 lb
Depth to Top Packer:	5090.00 ft			Final	100000.0 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	31.00 ft				
Tool Length:	59.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: Strap is 3.19 ft short to board. Slid 3 ft on 1st flow . 16.5 w ater loss . Tool stuck in hole.

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

Change Over Sub	1.00			5063.00	
Shut In Tool	5.00			5068.00	
Hydraulic tool	5.00			5073.00	
Jars	5.00			5078.00	
Safety Joint	3.00			5081.00	
Packer	4.00			5085.00	28.00 Bottom Of Top Packer
Packer	5.00			5090.00	
Stubb	1.00			5091.00	
Recorder	0.00	6719	Outside	5091.00	
Recorder	0.00	6773	Inside	5091.00	
Perforations	27.00			5118.00	
Bullnose	3.00			5121.00	31.00 Bottom Packers & Anchor

**Total Tool Length: 59.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

McCoy Petroleum Corporation

**25-30s-19w Kiowa,KS**

9342 E. Central  
Wichita, KS 67206

**HWY 'A' #1-25**

Job Ticket: 57789

**DST#: 2**

ATTN: Zach Wiele

Test Start: 2014.10.28 @ 06:05:59

## 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:

8000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.44 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
210.00	GCM w/slt O&W 1%g 99%m	1.033
667.00	GCM w/ slt O&W 1%g 99%m	9.292
1461.00	GWCM w/slt O 5%g 5%w 90%m	20.494
254.00	OGCM 1%o 9%g 90%m	3.563
317.00	OGCM 3%o 27%g 70%m	4.447
40.00	GOCM 7%g 8%o 85%m	0.561
0.00	G.T.S. T.S.T.M.	0.000

Total Length: 2949.00 ft

Total Volume: 39.390 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

Serial #: MAS PRATT

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 57788

4/10

Well Name & No. HWY 'A' 1-25 Test No. 1 Date 10/27/14  
 Company McCoy Petroleum Corporation Elevation 2241 KB 2232 GL  
 Address 9342 E. Central Wichita, KS. 67206  
 Co. Rep / Geo. Zach Wiele Rig Starling Rig #4  
 Location: Sec. 25 Twp. 30s Rge. 19w Co. Kiowa State KS.

Interval Tested 4905 - 4956 Zone Tested Marmaton "B"  
 Anchor Length 51' Drill Pipe Run 4685' Mud Wt. 9.4  
 Top Packer Depth 4900 Drill Collars Run 217' Vis 42  
 Bottom Packer Depth 4905 Wt. Pipe Run Q WL 13.4  
 Total Depth 4956 Chlorides 7000 ppm System LCM 0#

Blow Description IF: Fair - Strong blow. B.O.B in 1 1/2 mins.  
ISI: Weak blow. Bleed off in 5 mins., 2 mins. surf., - 1/4".  
FF: Fair - Strong blow. B.O.B in 5 mins.  
FST: Weak blow. Bleed off 3 mins. 3 mins Surf., - 2 1/2. 67 mins in died back to 1 1/2".

Rec	Feet of	%gas	%oil	%water	%mud
<u>1,142</u>	<u>G.I.P.</u>	<u>100</u>			
<u>106</u>	<u>GOWCM</u>	<u>5</u>	<u>20</u>	<u>25</u>	<u>50</u>
<u>128</u>	<u>OWGCM</u>	<u>27</u>	<u>13</u>	<u>20</u>	<u>40</u>
<u>342'</u>	<u>SH OGMCW</u>	<u>2</u>		<u>93</u>	<u>5</u>
<u>60'</u>	<u>GMOCW</u>	<u>1</u>	<u>4</u>	<u>92</u>	<u>3</u>

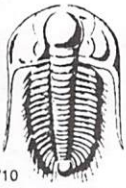
Rec Total 6036' BHT 115° Gravity N.A API RW 0.18 @ 68 °F Chlorides 42000 ppm

(A) Initial Hydrostatic 2539  Test 1250 T-On Location 0230  
 (B) First Initial Flow 99  Jars 250 T-Started 0322  
 (C) First Final Flow 119  Safety Joint 75 T-Open 0802  
 (D) Initial Shut-In 1499  Circ Sub \_\_\_\_\_ T-Pulled 1418  
 (E) Second Initial Flow 142  Hourly Standby 4.5h 450 T-Out 1755  
 (F) Second Final Flow 312  Mileage 104 161.20 \*Comments Suppose to be on Back  
 (G) Final Shut-In 1478  Sampler \_\_\_\_\_ @ 3:30-4:00 AM. OVER TEST  
 (H) Final Hydrostatic 2487  Straddle \_\_\_\_\_ Time.  
 Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Initial Open 5  
 Initial Shut-In 60  
 Final Flow 90  
 Final Shut-In 120  
 Sub Total 2186.20  
 Total 2186.20  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ 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. 57789

Well Name & No. HWY 'A' 1-25 Test No. 2 Date 10/28/14  
 Company McCoy Petroleum Corporation Elevation 2241 KB 2232 GL  
 Address 9342 E. Central Wichita, KS. 67206  
 Co. Rep / Geo. Zach Wiele Rig Sterling Rig #4  
 Location: Sec. 25 Twp. 30s Rge. 19w Co. KIOWA State KS.

Interval Tested 5090 - 5121 Zone Tested Spergen Ø  
 Anchor Length 31 Drill Pipe Run 4,877' Mud Wt. 9.2  
 Top Packer Depth 5085 Drill Collars Run 217' Vis 50  
 Bottom Packer Depth 5090 Wt. Pipe Run Ø WL 9.5  
 Total Depth 5121 Chlorides 8000 ppm System LCM 2<sup>#</sup>

Blow Description IF: Strong blow. B.O.B in 1-min.  
ISI: No blow.

FF: Strong blow. Immediate B.O.B. G.T.S. in 68 mins. T.S.I.T.M.

FSI: Weak blow. Surfy - 1/4" Blow started after 12 mins.

Rec	Feet of	%gas	%oil	%water	%mud
<u>G.T.S.</u>	<u>G.T.S. T.S.I.T.M</u>	<u>100</u>			
<u>1246</u>	<u>OGCM</u>	<u>25</u>	<u>5</u>		<u>70</u>
<u>889</u>	<u>SHO G WCM</u>	<u>5</u>		<u>5</u>	<u>90</u>
<u>1111</u>	<u>SHO+W GCM</u>	<u>4</u>			<u>96</u>
<u>210</u>	<u>SHO+W GCM</u>	<u>1</u>			<u>99</u>

Rec Total 3457' BHT \_\_\_\_\_ Gravity N.A. API RW N.C @ \_\_\_\_\_ °F Chlorides 8000 ppm

(A) Initial Hydrostatic  Test 1350 T-On Location 0605  
 (B) First Initial Flow  Jars 250 T-Started \_\_\_\_\_  
 (C) First Final Flow  Safety Joint 75 T-Open \_\_\_\_\_  
 (D) Initial Shut-In  Circ Sub \_\_\_\_\_ T-Pulled \_\_\_\_\_  
 (E) Second Initial Flow  Hourly Standby \_\_\_\_\_ T-Out \_\_\_\_\_  
 (F) Second Final Flow  Mileage 104 → 161.20 comments Bank @ 6:30-7:00 AM  
 (G) Final Shut-In  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 5  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 45  Day Standby \_\_\_\_\_ Total 1836.20  
 Final Flow 90  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 60 Sub Total 1836.20

Approved By \_\_\_\_\_ Our Representative Matthew A. Smith

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.