



DRILL STEM TEST REPORT

Prepared For: **McCoy Petroleum Corporation**

8080 E Central Ste 300
Wichita, KS 67206

ATTN: Dave Williams

Hill A #3-23

23-30s-19w Kiowa

Start Date: 2013.06.11 @ 01:20:34

End Date: 2013.06.11 @ 10:35:49

Job Ticket #: 50980 DST #: 1

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

Printed: 2013.06.12 @ 16:04:26

McCoy Petroleum Corporation
23-30s-19w Kiowa
Hill A #3-23
DST # 1
Mississippi
2013.06.11



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

McCoy Petroleum Corporation
 8080 E Central Ste 300
 Wichita, KS 67206
 ATTN: Dave Williams

23-30s-19w Kiowa
Hill A #3-23
 Job Ticket: 50980 **DST#: 1**
 Test Start: 2013.06.11 @ 01:20:34

GENERAL INFORMATION:

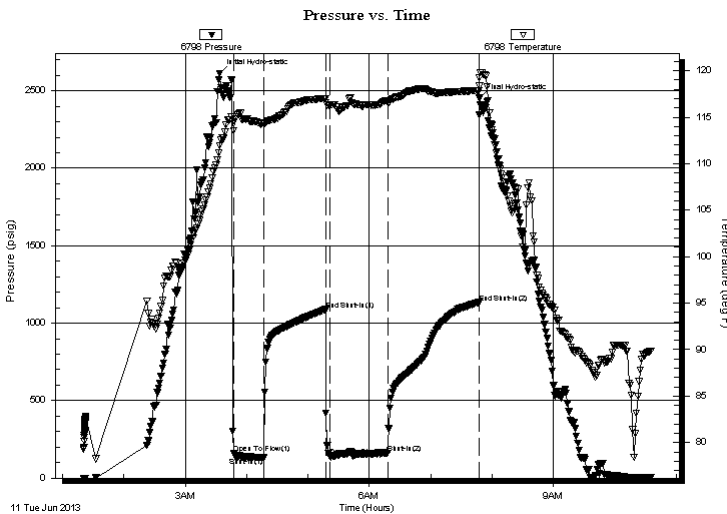
Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:47:34
 Time Test Ended: 10:35:49
 Interval: **5060.00 ft (KB) To 5120.00 ft (KB) (TVD)**
 Total Depth: 5120.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Leal Cason
 Unit No: 45
 Reference Elevations: 2241.00 ft (KB)
 2230.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 6798

Inside

Press @ Run Depth: 159.98 psig @ 5061.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.06.11 End Date: 2013.06.11 Last Calib.: 2013.06.11
 Start Time: 01:20:35 End Time: 10:35:49 Time On Btm: 2013.06.11 @ 03:33:49
 Time Off Btm: 2013.06.11 @ 07:47:49

TEST COMMENT: IF: Strong Blow , BOB in 15 seconds, GTS in 8 minutes, Caught Sample & Gauged w ith Merla Gauge
 IS: No Blow Back
 FF: Strong Blow , BOB & GTS immediate, Gauged w ith Merla
 FS: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2612.37	111.95	Initial Hydro-static
14	159.19	113.53	Open To Flow (1)
43	132.30	114.29	Shut-In(1)
104	1088.16	116.97	End Shut-In(1)
108	142.20	116.30	Open To Flow (2)
164	159.98	116.70	Shut-In(2)
254	1133.61	117.84	End Shut-In(2)
254	2451.97	119.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
185.00	GSY OWCM 15%G 15%O 20%W 50%M	0.91
248.00	GSY WOCM 10%G 12%W 30%O 48%M	3.23
72.00	GOCM 10%G 2%O 88%M	1.01
0.00	GTS	0.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

McCoy Petroleum Corporation

23-30s-19w Kiowa

8080 E Central Ste 300
Wichita, KS 67206

Hill A #3-23

Job Ticket: 50980

DST#: 1

ATTN: Dave Williams

Test Start: 2013.06.11 @ 01:20:34

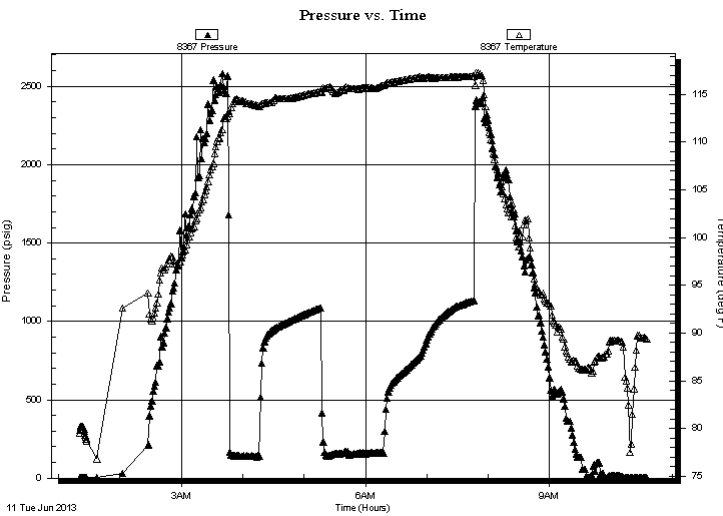
GENERAL INFORMATION:

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 Test Type: Conventional Bottom Hole (Initial)
 Tester: Leal Cason
 Unit No: 45
 Reference Elevations: 2241.00 ft (KB)
 2230.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8367 Outside

Press @ Run Depth: psig @ 5061.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.06.11 End Date: 2013.06.11 Last Calib.: 2013.06.11
 Start Time: 01:20:28 End Time: 10:35:38 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Strong Blow , BOB in 15 seconds, GTS in 8 minutes, Caught Sample & Gauged w ith Merla Gauge
 IS: No Blow Back
 FF: Strong Blow , BOB & GTS immediate, Gauged w ith Merla
 FS: No Blow Back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
185.00	GSY OWCM 15%G 15%O 20%W 50%M	0.91
248.00	GSY WOCM 10%G 12%W 30%O 48%M	3.23
72.00	GOCM 10%G 2%O 88%M	1.01
0.00	GTS	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

McCoy Petroleum Corporation

23-30s-19w Kiowa

8080 E Central Ste 300
Wichita, KS 67206

Hill A #3-23

Job Ticket: 50980

DST#: 1

ATTN: Dave Williams

Test Start: 2013.06.11 @ 01:20:34

Tool Information

Drill Pipe:	Length: 4845.00 ft	Diameter: 3.80 inches	Volume: 67.96 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: 212.00 ft	Diameter: 2.25 inches	Volume: 1.04 bbl	Weight to Pull Loose: 88000.00 lb
			<u>Total Volume: 69.00 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 85000.00 lb
Depth to Top Packer:	5060.00 ft			Final 86000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	87.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			5038.00	
Hydraulic tool	5.00			5043.00	
Jars	5.00			5048.00	
Safety Joint	2.00			5050.00	
Packer	5.00			5055.00	27.00 Bottom Of Top Packer
Packer	5.00			5060.00	
Stubb	1.00			5061.00	
Recorder	0.00	6798	Inside	5061.00	
Recorder	0.00	8367	Outside	5061.00	
Perforations	2.00			5063.00	
Change Over Sub	1.00			5064.00	
Drill Pipe	32.00			5096.00	
Change Over Sub	1.00			5097.00	
Perforations	20.00			5117.00	
Bullnose	3.00			5120.00	60.00 Bottom Packers & Anchor

Total Tool Length: 87.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

McCoy Petroleum Corporation

23-30s-19w Kiowa

8080 E Central Ste 300
Wichita, KS 67206

Hill A #3-23

Job Ticket: 50980

DST#: 1

ATTN: Dave Williams

Test Start: 2013.06.11 @ 01:20:34

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:

126000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7600.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
185.00	GSY OWCM 15%G 15%O 20%W 50%M	0.910
248.00	GSY WOCM 10%G 12%W 30%O 48%M	3.233
72.00	GOCM 10%G 2%O 88%M	1.010
0.00	GTS	0.000

Total Length: 505.00 ft Total Volume: 5.153 bbl

Num Fluid Samples: 1

Num Gas Bombs: 0

Serial #:

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments: RW was .06 @ 78 degrees

Serial #: 6798

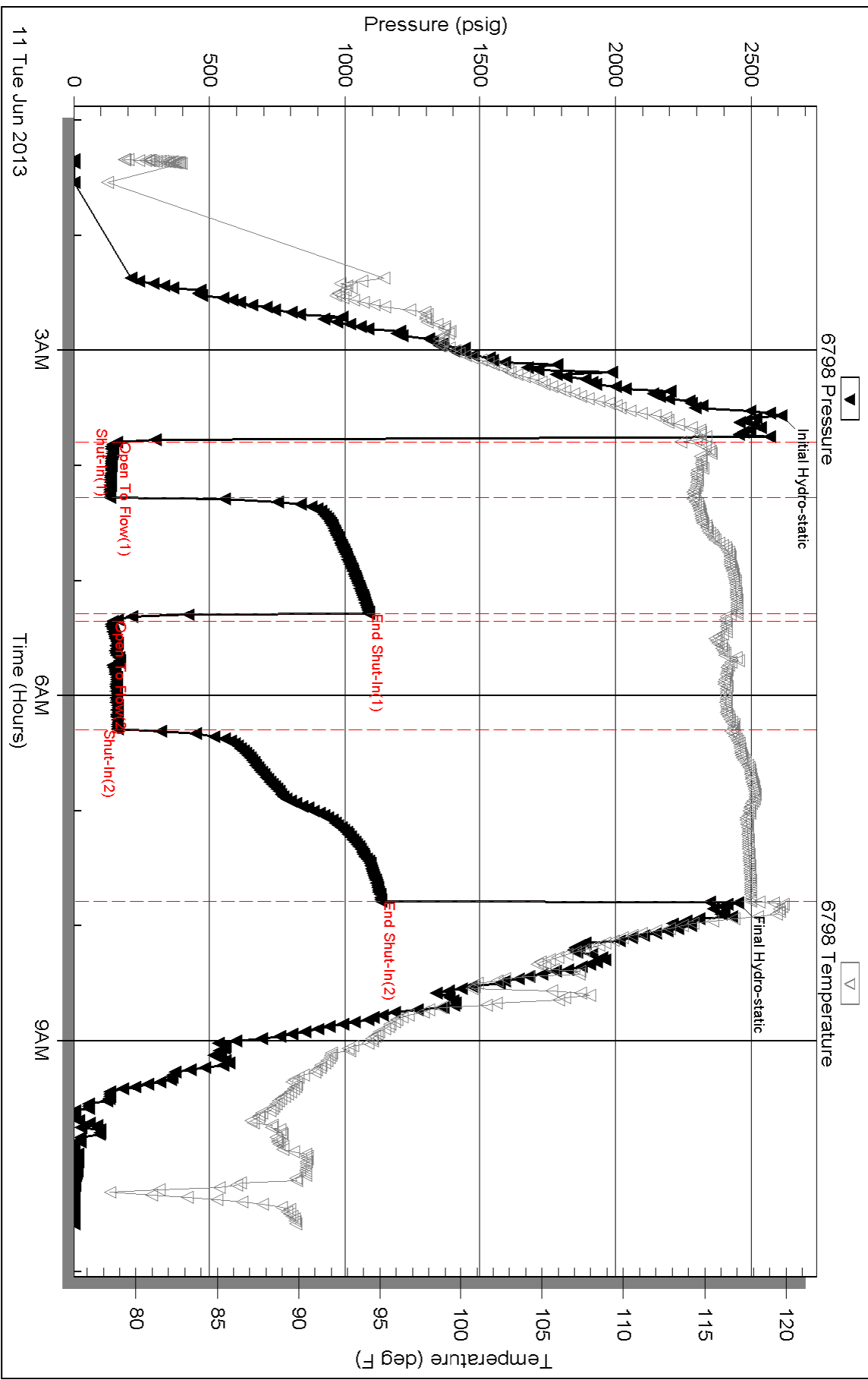
Inside

McCoy Petroleum Corporation

Hill A #3-23

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 50980

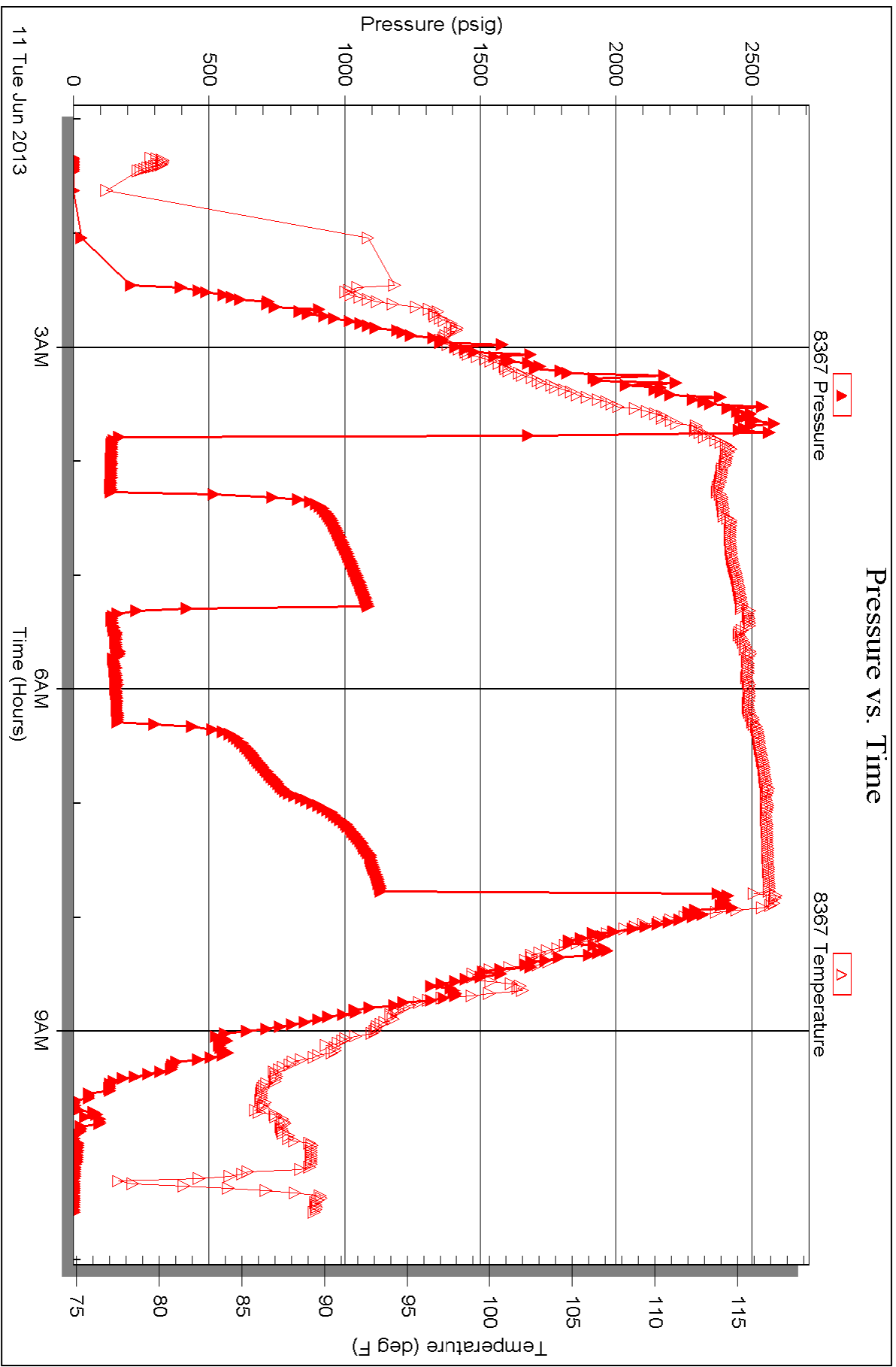
Printed: 2013.06.12 @ 16:04:28

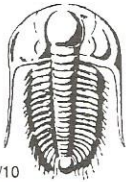
Serial #: 8367

Outside McCoy Petroleum Corporation

Hill A #3-23

DST Test Number: 1





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50980

Well Name & No. Hill A 3-23 Test No. 1 Date 06/11/13
 Company McCoy Petroleum Corp Elevation 2241 KB 2230 GL
 Address 8080 E Central Ste 300 Wichita, KS 67206
 Co. Rep / Geo. Dave Williams Rig Sterling 2
 Location: Sec. 23 Twp. 30S Rge. 19W Co. kiowa State KS

Interval Tested 5060 - 5120 Zone Tested Mississippi
 Anchor Length 60 Drill Pipe Run 4845 Mud Wt. 9.0
 Top Packer Depth 5055 Drill Collars Run 212 Vis 55
 Bottom Packer Depth 5060 Wt. Pipe Run 0 WL 10.8
 Total Depth 5120 Chlorides 7600 ppm System LCM 1

Blow Description IF: Strong Blow, BOB in 15 sec, GTS in 8 min, Caught Sample + Gauged with Merla
ISF: NO Blow Back
FF: Strong Blow, BOB + GTS Immediate, Gauged with Merla
FSI: NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>4552</u>	<u>GTP</u>				
<u>72</u>	<u>GOCM</u>	<u>10</u>	<u>2</u>		<u>88</u>
<u>248</u>	<u>GST WOCM</u>	<u>10</u>	<u>30</u>	<u>12</u>	<u>48</u>
<u>185</u>	<u>GST OOCM</u>	<u>15</u>	<u>15</u>	<u>20</u>	<u>50</u>

Rec Total 505 BHT 119 Gravity N/C API RW .06 @ 78 °F Chlorides 126,000 ppm

(A) Initial Hydrostatic <u>2612</u>	<input checked="" type="checkbox"/> Test <u>1350</u>	T-On Location <u>00:00</u>
(B) First Initial Flow <u>159</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>01:20</u>
(C) First Final Flow <u>132</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>03:47</u>
(D) Initial Shut-In <u>1088</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>07:47</u>
(E) Second Initial Flow <u>142</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>10:35</u>
(F) Second Final Flow <u>160</u>	<input checked="" type="checkbox"/> Mileage <u>(110)</u> <u>341</u>	Comments <u>loaded tools 6/11 19:00</u>
(G) Final Shut-In <u>1134</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2452</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90

Sub Total 2016

MP/DST Disc't _____

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.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Gas Volume Report

12/08

McCoy Petroleum

H#11 A

3-23

1

Operator
GTS 8 MINUTES

Well Name and No.

DST No.

Min.	In. of Water PSI	Orifice Size	m CF/D	Min.	In. of Water PSI	Orifice Size	m CF/D
10	12	1/2	151.9	10	18 20	1/2	197.5
20	26	1/2	231.7	20	18	1/2	186.1
30	22	1/2	208.9	30	16	1/2	174.7
				40	13	1/2	157.6
				50	12	1/2	151.9
				60	12	1/2	151.9

Remarks: