

# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED  
AUG 09 2010

## Test Ticket

NO. 039112 14591

4/10

BY:

Well Name & No.	BH Berggren 5-5		Test No.	1	Date	8-2-10
Company	M&J Energy		Elevation	2988	KB	2878
Address	1600 W Broadway Ste 1740 Denver, CO 80202					
Co. Rep / Geo.	Justin Carter		Rig	H2 #2		
Location: Sec.	5	Twp.	14	Rge.	32	Co. Log 9M
						State KS

Interval Tested	4678	4118	Zone Tested	I-J
Anchor Length		40	Drill Pipe Run	3834
Top Packer Depth		4073	Drill Collars Run	243
Bottom Packer Depth		4078	Wt. Pipe Run	
Total Depth		4118	Chlorides	5400 ppm System
			LCM	3

Blow Description IF: Surface blow died in 2 min.  
 IS: No return,  
 FF: No blow,  
 FS: No return,

Rec	Feet of	%gas	%oil	%water	%mud
10	mud			100	

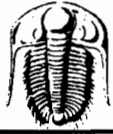
Rec Total	10	BHT	117	Gravity		API RW		@		F Chlorides		ppm
(A) Initial Hydrostatic	2033	<input checked="" type="checkbox"/> Test	1225.00	T-On Location	14:20							
(B) First Initial Flow	41	<input checked="" type="checkbox"/> Jars	250.00	T-Started	15:12							
(C) First Final Flow	35	<input checked="" type="checkbox"/> Safety Joint	75.00	T-Open	17:51							
(D) Initial Shut-In	1264	<input checked="" type="checkbox"/> Circ Sub	N/L	T-Pulled	23:21							
(E) Second Initial Flow	44	<input checked="" type="checkbox"/> Hourly Standby	2-200.00	T-Out	2:20							
(F) Second Final Flow	45	<input checked="" type="checkbox"/> Mileage	70-87.50	Comments								
(G) Final Shut-In	1286	<input checked="" type="checkbox"/> Sampler	250.00									
(H) Final Hydrostatic	1922	<input type="checkbox"/> Straddle										

Initial Open	30	<input type="checkbox"/> Shale Packer		<input type="checkbox"/> Ruined Shale Packer	
Initial Shut-In	60	<input type="checkbox"/> Extra Packer		<input type="checkbox"/> Ruined Packer	
Final Flow	60	<input type="checkbox"/> Extra Recorder		<input type="checkbox"/> Extra Copies	
Final Shut-In	180	<input type="checkbox"/> Day Standby		Sub Total	8
		<input checked="" type="checkbox"/> Accessibility	150.00	Total	2237.50
		Sub Total	2237.50	MP/DST Disc't	

Approved By

Our Representative

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 362 • Hays, Kansas 67601

## FLUID SAMPLER DATA

Ticket No. 39112 Date 8-2-10  
 Company Name Mak-J Energy  
 Lease BH Berkgren Test No. 1  
 County Logan Sec. 5 Twp. 14 Rng. 32

### SAMPLER RECOVERY

Gas \_\_\_\_\_ ML  
 Oil \_\_\_\_\_ ML  
 Mud 3000 ML  
 Water \_\_\_\_\_ ML  
 Other \_\_\_\_\_ ML  
 Pressure 0 ML  
 Total \_\_\_\_\_ ML

### PIT MUD ANALYSIS

Chlorides 5400 ppm.  
 Resistivity - ohms @ - F  
 Viscosity 59  
 Mud Weight 9.0  
 Filtrate 7.8  
 Other LCM 3

### SAMPLER ANALYSIS

Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Chlorides \_\_\_\_\_ ppm.  
 Gravity \_\_\_\_\_ corrected @60F

### PIPE RECOVERY

**TOP**  
 Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Chlorides \_\_\_\_\_ ppm.  
**MIDDLE**  
 Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Chlorides \_\_\_\_\_ ppm.  
**BOTTOM**  
 Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Chlorides \_\_\_\_\_ ppm.



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## Test Ticket

NO. 039113

4/10

Well Name & No. BH Berggren 5-5 BY: \_\_\_\_\_ Test No. 2 Date 8-3-10  
 Company Mark-J Energy Elevation 2888 KB 2878 GL \_\_\_\_\_  
 Address 1600 N. Broadway Ste 1740 Denver, CO 80202  
 Co. Rep / Geo. Justin Carter Rig H2#2  
 Location: Sec. 5 Twp. 14 Rge. 32 Co. Logan State KS

Interval Tested 4132 4160 Zone Tested K  
 Anchor Length 28 Drill Pipe Run 3867 Mud Wt. 9.2  
 Top Packer Depth 4127 Drill Collars Run 243 Vis 55  
 Bottom Packer Depth 4132 Wt. Pipe Run — WL 8.8  
 Total Depth 4160 Chlorides 5500 ppm System LCM 2

Blow Description IF: surface blow built to 1 in 30 min.  
IS: No return.  
FF: No blow.  
FS: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>93</u>	<u>wcm</u>		<u>40</u>	<u>60</u>	
<u>82</u>	<u>MW</u>		<u>50</u>	<u>50</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 155 BHT 119 Gravity — API RW .20 @ 82° F Chlorides 30000 ppm

(A) Initial Hydrostatic <u>2079</u>	<input checked="" type="checkbox"/> Test <u>1225.00</u>	T-On Location <u>12:40</u>
(B) First Initial Flow <u>56</u>	<input checked="" type="checkbox"/> Jars <u>250.00</u>	T-Started <u>13:25</u>
(C) First Final Flow <u>54</u>	<input checked="" type="checkbox"/> Safety Joint <u>75.00</u>	T-Open <u>16:09</u>
(D) Initial Shut-In <u>1260</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>22:09</u>
(E) Second Initial Flow <u>73</u>	<input checked="" type="checkbox"/> Hourly Standby <u>2-200.00</u>	T-Out <u>00:40</u>
(F) Second Final Flow <u>105</u>	<input checked="" type="checkbox"/> Mileage <u>70-87.50</u>	Comments _____
(G) Final Shut-In <u>1236</u>	<input checked="" type="checkbox"/> Sampler <u>250.00</u>	_____
(H) Final Hydrostatic <u>2031</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____

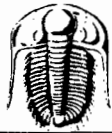
Initial Open 30  
 Initial Shut-In 60  
 Final Flow 90  
 Final Shut-In 180

Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby 800.00  
 Accessibility 150.00

Sub Total 3037.50  
 Total 3037.50  
 MP/DST Disc't \_\_\_\_\_

Approved By Justin Carter Our Representative [Signature]

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## FLUID SAMPLER DATA

Ticket No. 39113 Date 8-3-10  
 Company Name Mals - J Energy  
 Lease BH Berkgren Test No. 2  
 County Logan Sec. 5 Twp. 14 Rng. 32

### SAMPLER RECOVERY

Gas \_\_\_\_\_ ML  
 Oil \_\_\_\_\_ ML  
 Mud 1500 ML  
 Water 1500 ML  
 Other \_\_\_\_\_ ML  
 Pressure 0 ML  
 Total 3000 ML

### PIT MUD ANALYSIS

Chlorides 5500 ppm.  
 Resistivity - ohms @ - F  
 Viscosity 55  
 Mud Weight 9.2  
 Filtrate 8.8  
 Other LCM 2

### SAMPLER ANALYSIS

Resistivity .20 ohms @ 80 F  
 Chlorides 3000 ppm.  
 Gravity \_\_\_\_\_ corrected @60F

### PIPE RECOVERY

**TOP**  
 Resistivity .20 ohms @ 80 F  
 Chlorides 30000 ppm.  
**MIDDLE**  
 Resistivity .20 ohms @ 80 F  
 Chlorides 3000 ppm.  
**BOTTOM**  
 Resistivity .20 ohms @ 80 F  
 Chlorides 3000 ppm.



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## Test Ticket

RECEIVED  
AUG 10 2010

NO. 040277

Well Name & No. BH Berkgren 5-5T Test No. ?3 Date 8-6-10  
 Company Mak-J Energy operating Elevation 2889 KB 2878 GL  
 Address 1670 N Br Denver Co. 80202  
 Co. Rep / Geo. Justin Carter Rig H/2 Rig 2  
 Location: Sec. 5 Twp. 14 Rge. 32 Co. Logan State Ks

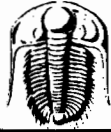
Interval Tested 4166-4178 Zone Tested L  
 Anchor Length 12 Drill Pipe Run 3924 Mud Wt. 9.1  
 Top Packer Depth 4161 Drill Collars Run 242 Vis 58  
 Bottom Packer Depth 4166 Wt. Pipe Run 0 WL 7.2  
 Total Depth 4610 Chlorides 4500 ppm System LCM 1  
 Blow Description IF- strong blow BOB 30 sec.  
ISI- No blow back  
FF- strong blow BOB 4min.  
ZSI- No bleed back.

Rec	Feet of	%gas	%oil	%water	%mud
1310	<u>0</u>	<u>0</u>	<u>0</u>	80	20
990		<u>0</u>	<u>0</u>	30	70
		%gas	%oil	%water	%mud
		%gas	%oil	%water	%mud
		%gas	%oil	%water	%mud

Rec Total BHT Gravity API RW @ °F Chlorides ppm

(A) Initial Hydrostatic <u>2111</u>	<input type="checkbox"/> Test <u>1225<sup>00</sup></u>	T-On Location <u>330 AM</u>
(B) First Initial Flow <u>413</u>	<input type="checkbox"/> Jars <u>250<sup>00</sup></u>	T-Started <u>530 PM</u>
(C) First Final Flow <u>803</u>	<input type="checkbox"/> Safety Joint <u>75<sup>00</sup></u>	T-Open <u>730 PM</u>
(D) Initial Shut-In <u>1018</u>	<input type="checkbox"/> Circ Sub <u>50<sup>00</sup></u>	T-Pulled <u>1200 AM</u>
(E) Second Initial Flow <u>835</u>	<input type="checkbox"/> Hourly Standby <u>3hrs 300<sup>00</sup></u>	T-Out <u>430 AM 13<sup>00</sup></u>
(F) Second Final Flow <u>961</u>	<input type="checkbox"/> Mileage <u>70 RT 8750<sup>00</sup></u>	Comments <u>8674 Bottom</u>
(G) Final Shut-In <u>1069</u>	<input type="checkbox"/> Sampler <u>250<sup>00</sup></u>	<input type="checkbox"/> Ruined Shale Packer <u>280<sup>00</sup></u>
(H) Final Hydrostatic <u>1950</u>	<input type="checkbox"/> Straddle <u>600<sup>00</sup></u>	<input type="checkbox"/> Ruined Packer <u>0<sup>00</sup></u>
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>280</u>
Final Flow <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>3517.50<sup>00</sup></u>
Final Shut-In <u>120</u>	<input type="checkbox"/> Accessibility <u>150<sup>00</sup></u>	MP/DST Disc't
	Sub Total <u>3237.50</u>	

Approved By Ernest Moses Our Representative Heley Davidson  
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## FLUID SAMPLER DATA

Ticket No. 040277 Date 8-6-10  
 Company Name Mak S Energy  
 Lease BH Berkgen 5-5 Test No. 3  
 County Logan Sec. 5 Twp. 14 Rng. 32

### SAMPLER RECOVERY

Gas 0 ML  
 Oil 0 ML  
 Mud trace ML  
 Water 2000 ML ML  
 Other \_\_\_\_\_ ML  
 Pressure 1000 ML  
 Total \_\_\_\_\_ ML

### PIT MUD ANALYSIS

Chlorides 4500 ppm.  
 Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Viscosity 58  
 Mud Weight 9.1  
 Filtrate 7.2  
 Other 2cm 1#  
 \_\_\_\_\_

### SAMPLER ANALYSIS

Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Chlorides \_\_\_\_\_ ppm.  
 Gravity \_\_\_\_\_ corrected @60F

### PIPE RECOVERY

**TOP**  
 Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Chlorides \_\_\_\_\_ ppm.  
**MIDDLE**  
 Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Chlorides \_\_\_\_\_ ppm.  
**BOTTOM**  
 Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Chlorides \_\_\_\_\_ ppm.