

15-109-20868

7-14s-32w



DRILL STEM TEST REPORT

Prepared For: **Mak J Energy Kansas LLC**

1600 N Broadway
Ste 1740
Denver CO 80202

ATTN: Steve Murphy

7-14s-32w Logan KS

Riner-Kroneberger #1-7

Start Date: 2010.01.23 @ 02:08:01

End Date: 2010.01.23 @ 09:45:01

Job Ticket #: 37697 DST #: 1

TIGHT HOLE

KCC
APR 15 2010
CONFIDENTIAL

RECEIVED
KANSAS CORPORATION COMMISSION

APR 19 2010

CONSERVATION DIVISION
WICHITA, KS

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Mak J Energy Kansas LLC
1600 N Broadway
Ste 1740
Denver CO 80202
ATTN: Steve Murphy

Riner-Kroneberger #1-7
7-14s-32w Logan KS
Job Ticket: 37697 **DST#: 1**
Test Start: 2010.01.23 @ 02:08:01

GENERAL INFORMATION:

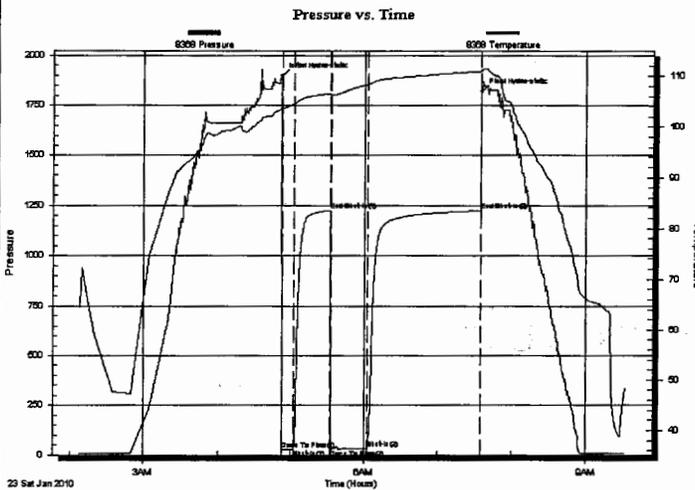
Formation: C
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:52:16
Time Test Ended: 09:45:01
Interval: 3884.00 ft (KB) To 3923.00 ft (KB) (TVD)
Total Depth: 3923.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: Shane McBride
Unit No: 40
Reference Elevations: 2855.00 ft (KB)
2848.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8368

Inside

Press@RunDepth: 33.80 psig @ 3885.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.01.23 End Date: 2010.01.23 Last Calib.: 2010.01.23
Start Time: 02:08:01 End Time: 09:32:01 Time On Btm: 2010.01.23 @ 04:52:01
Time Off Btm: 2010.01.23 @ 07:35:16

TEST COMMENT: 1/4" in blow
No return
Weak surface blow
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1895.52	104.00	Initial Hydro-static
1	25.61	103.31	Open To Flow (1)
11	28.35	104.57	Shut-In(1)
40	1226.74	106.57	End Shut-In(1)
41	30.03	106.16	Open To Flow (2)
70	33.80	108.36	Shut-In(2)
163	1224.92	110.93	End Shut-In(2)
164	1818.23	111.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud 100% oil spots in tool	0.14

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mak J Energy Kansas LLC

Riner-Kroneberger #1-7

1600 N Broadway
Ste 1740
Denver CO 80202
ATTN: Steve Murphy

7-14s-32w Logan KS

Job Ticket: 37697 **DST#: 1**
Test Start: 2010.01.23 @ 02:08:01

Tool Information

Drill Pipe:	Length: 3873.00 ft	Diameter: 3.80 inches	Volume: 54.33 bbl	Tool Weight: 1500.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 54.33 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3884.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 ft			
Tool Length:	66.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Change Over Sub	1.00			3858.00	
Shut In Tool	5.00			3863.00	
Hydraulic tool	5.00			3868.00	
Jars	5.00			3873.00	
Safety Joint	2.00			3875.00	
Packer	5.00			3880.00	27.00 Bottom Of Top Packer
Packer	4.00			3884.00	
Stubb	1.00			3885.00	
Recorder	0.00	8368	Inside	3885.00	
Recorder	0.00	6771	Outside	3885.00	
Perforations	33.00			3918.00	
Bullnose	5.00			3923.00	39.00 Bottom Packers & Anchor

Total Tool Length: 66.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mak J Energy Kansas LLC

Riner-Kroneberger #1-7

1600 N Broadway
Ste 1740
Denver CO 80202
ATTN: Steve Murphy

7-14s-32w Logan KS

Job Ticket: 37697

DST#: 1

Test Start: 2010.01.23 @ 02:08:01

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.16 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	mud 100% oil spots in tool	0.140

Total Length: 10.00 ft Total Volume: 0.140 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8368

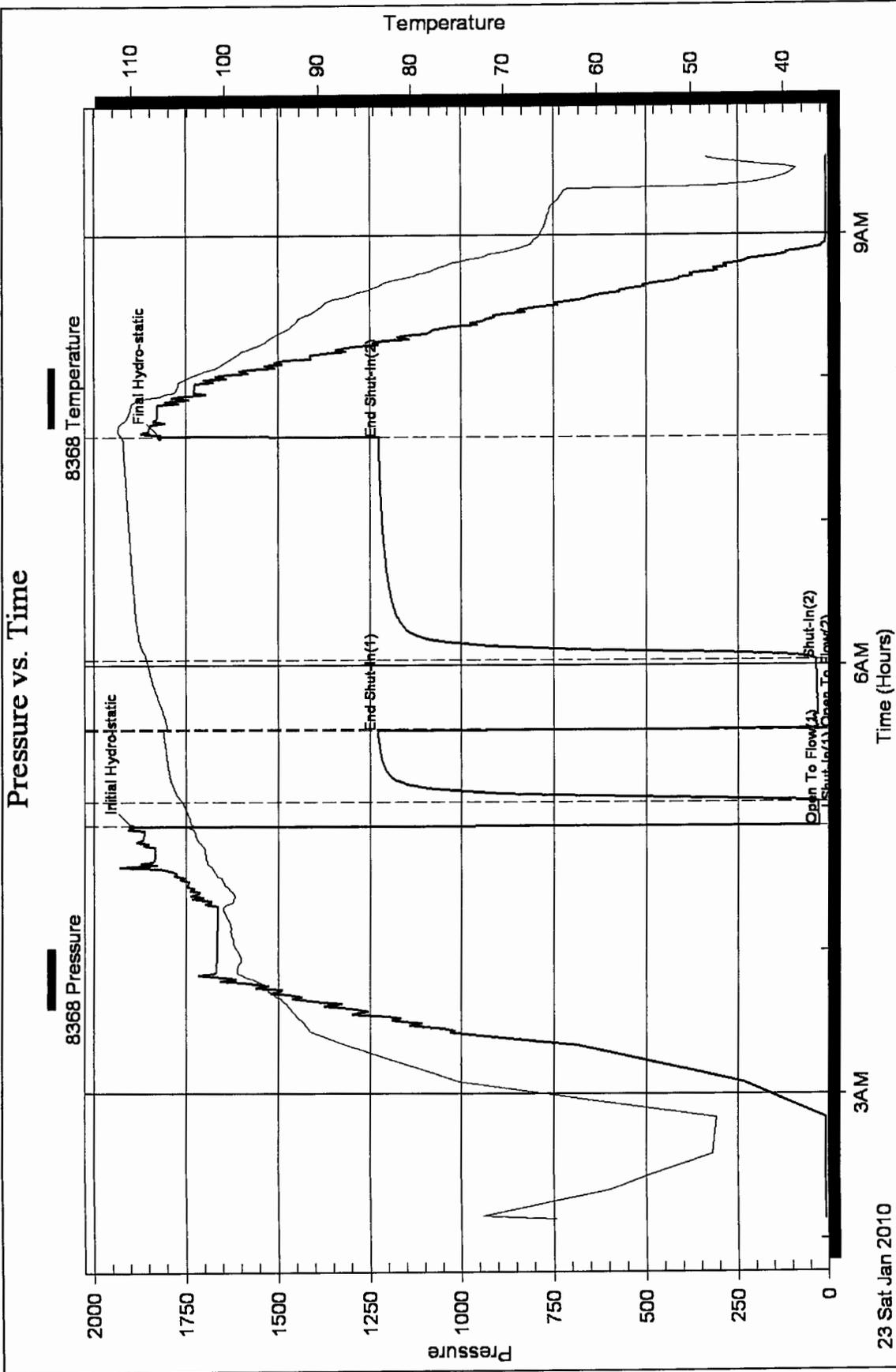
Inside

Mak J Energy Kansas LLC

7-14s-32w Logan KS

DST Test Number: 1

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Mak J Energy Kansas LLC**

1600 N Broadway
Ste 1740
Denver CO 80202

ATTN: Steve Murphy

7-14s-32w Logan KS

Riner-Kroneberger #1-7

Start Date: 2010.01.24 @ 01:20:30

End Date: 2010.01.24 @ 10:30:45

Job Ticket #: 37698 DST #: 2

TIGHT HOLE

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Mak J Energy Kansas LLC

Riner-Kroneberger #1-7

7-14s-32w Logan KS

DST # 2

H-1

2010.01.24



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Mak J Energy Kansas LLC

1600 N Broadway
Ste 1740
Denver CO 80202
ATTN: Steve Murphy

Riner-Kroneberger #1-7

7-14s-32w Logan KS

Job Ticket: 37698

DST#: 2

Test Start: 2010.01.24 @ 01:20:30

GENERAL INFORMATION:

Formation: H-I

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:41:30

Time Test Ended: 10:30:45

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 40

Interval: 3997.00 ft (KB) To 4070.00 ft (KB) (TVD)

Total Depth: 4070.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2855.00 ft (KB)

2848.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8368

Inside

Press@RunDepth: 951.65 psig @ 3998.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.01.24

End Date:

2010.01.24

Last Calib.: 2010.01.24

Start Time: 01:20:30

End Time:

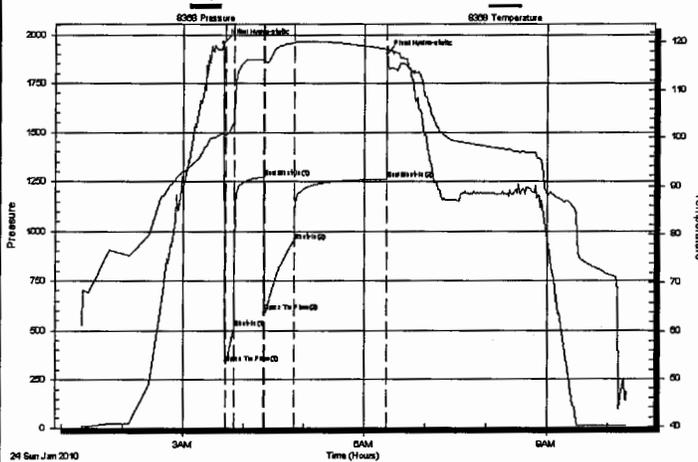
10:18:45

Time On Btm: 2010.01.24 @ 03:40:00

Time Off Btm: 2010.01.24 @ 06:22:00

TEST COMMENT: B.O.B. in 1/2 min.
Return to B.O.B. in 17 min
B.O.B. @ open
Return to B.O.B. in 18 min

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1959.24	100.95	Initial Hydro-static
2	332.74	100.57	Open To Flow (1)
11	515.58	103.11	Shut-In(1)
41	1271.13	116.31	End Shut-In(1)
41	595.78	116.04	Open To Flow (2)
71	951.65	119.79	Shut-In(2)
162	1262.99	118.49	End Shut-In(2)
162	1903.13	118.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	c g o 30%g 70%o	1.74
2232.00	c g o reversed out 30%g 70%o	31.31
124.00	m c g o 20%m 25%g 55%o under circ sul	1.74
0.00	1364' gas in pipe	0.00

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mak J Energy Kansas LLC

1600 N Broadway
Ste 1740
Denver CO 80202
ATTN: Steve Murphy

Riner-Kroneberger #1-7

7-14s-32w Logan KS

Job Ticket: 37698 DST#: 2

Test Start: 2010.01.24 @ 01:20:30

Tool Information

Drill Pipe:	Length: 3996.00 ft	Diameter: 3.80 inches	Volume: 56.05 bbl	Tool Weight: 1500.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
		<u>Total Volume:</u>	<u>56.05 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3997.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	73.00 ft			
Tool Length:	100.00 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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Change Over Sub	1.00			3971.00	
Shut In Tool	5.00			3976.00	
Hydraulic tool	5.00			3981.00	
Jars	5.00			3986.00	
Safety Joint	2.00			3988.00	
Packer	5.00			3993.00	27.00 Bottom Of Top Packer
Packer	4.00			3997.00	
Stubb	1.00			3998.00	
Recorder	0.00	8368	Inside	3998.00	
Recorder	0.00	6771	Outside	3998.00	
Perforations	3.00			4001.00	
Change Over Sub	1.00			4002.00	
Drill Pipe	62.00			4064.00	
Change Over Sub	1.00			4065.00	
Bullnose	5.00			4070.00	73.00 Bottom Packers & Anchor

Total Tool Length: 100.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Mak J Energy Kansas LLC

Riner-Kroneberger #1-7

1600 N Broadway
Ste 1740
Denver CO 80202

7-14s-32w Logan KS

ATTN: Steve Murphy

Job Ticket: 37698

DST#: 2

Test Start: 2010.01.24 @ 01:20:30

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 36 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 0 ppm
Viscosity: 47.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.17 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 3500.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	c g o 30%g 70%o	1.739
2232.00	c g o reversed out 30%g 70%o	31.309
124.00	m c g o 20%m 25%g 55%o under circ sub	1.739
0.00	1364' gas in pipe	0.000

Total Length: 2480.00 ft Total Volume: 34.787 bbl

Num Fluid Samples: 0

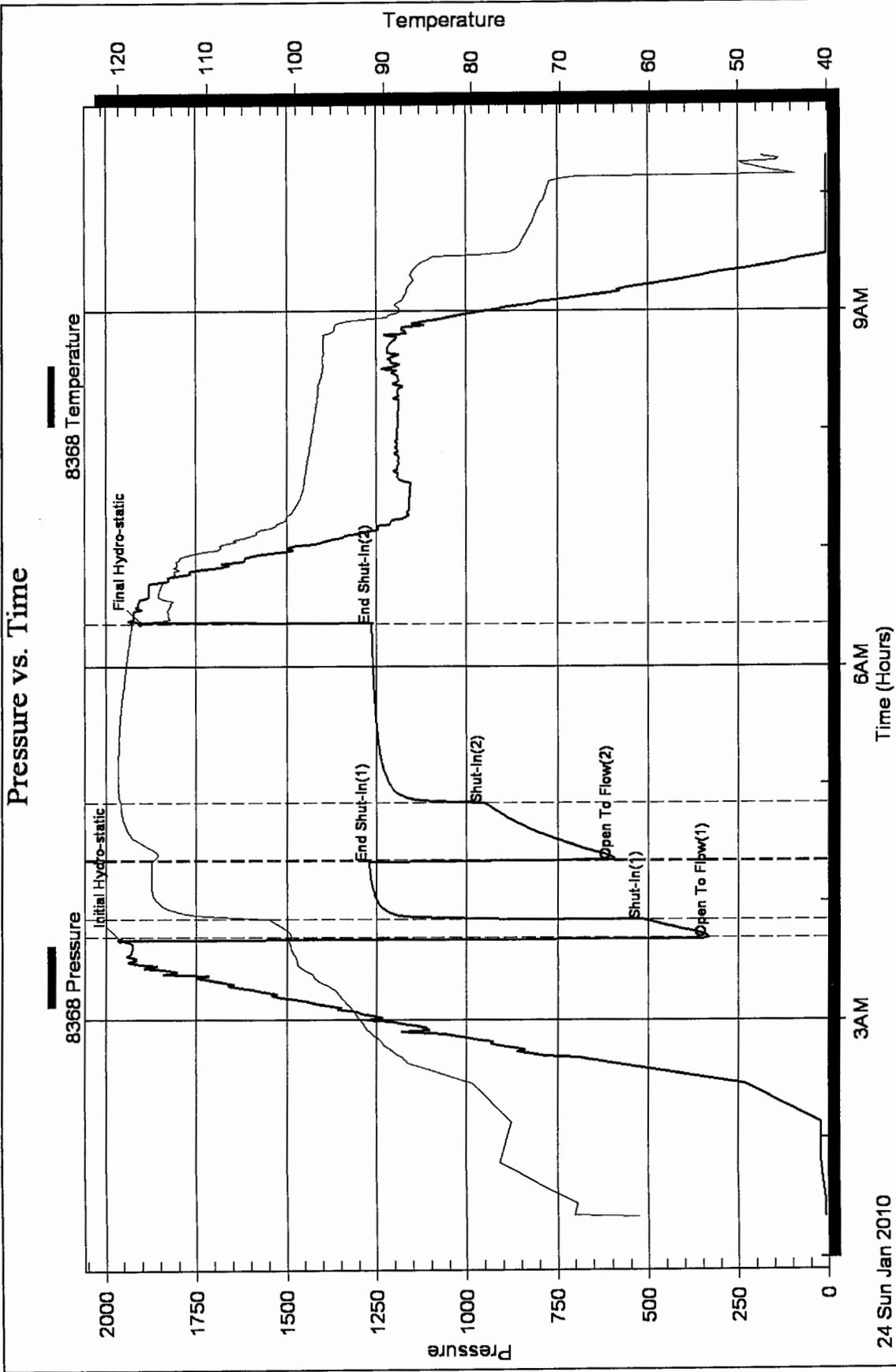
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: gravity 33 @ 30*f = 36 API





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Mak J Energy Kansas LLC**

1600 N Broadway
Ste 1740
Denver CO 80202

ATTN: Steve Murphy

7-14s-32w Logan KS

Riner-Kroneberger #1-7

Start Date: 2010.01.24 @ 20:26:04

End Date: 2010.01.25 @ 04:10:19

Job Ticket #: 37699 DST #: 3

TIGHT HOLE

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Mak J Energy Kansas LLC

Riner-Kroneberger #1-7

7-14s-32w Logan KS

DST # 3

K

2010.01.24



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mak J Energy Kansas LLC
 1600 N Broadway
 Ste 1740
 Denver CO 80202
 ATTN: Steve Murphy

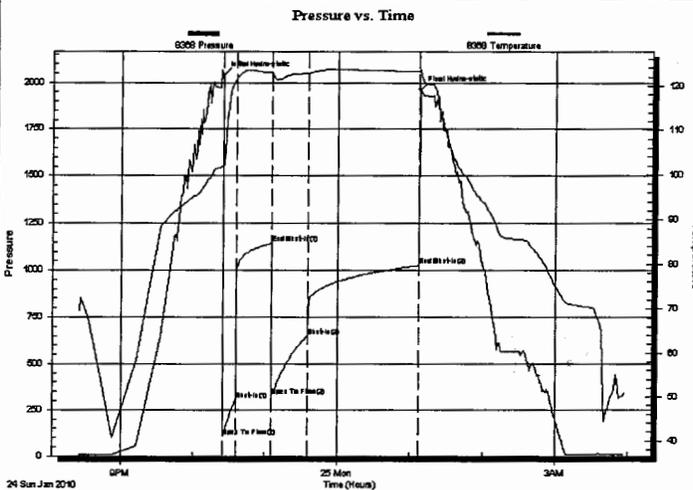
Riner-Kroneberger #1-7
7-14s-32w Logan KS
 Job Ticket: 37699 DST#: 3
 Test Start: 2010.01.24 @ 20:26:04

GENERAL INFORMATION:

Formation: K
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:25:04
 Time Test Ended: 04:10:19
 Interval: **4110.00 ft (KB) To 4130.00 ft (KB) (TVD)**
 Total Depth: 4130.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: Shane McBride
 Unit No: 40
 Reference Elevations: 2855.00 ft (KB)
 2848.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8368 Inside
 Press@RunDepth: 649.70 psig @ 4111.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2010.01.24 End Date: 2010.01.25 Last Calib.: 2010.01.25
 Start Time: 20:26:04 End Time: 03:57:19 Time On Btm: 2010.01.24 @ 22:24:34
 Time Off Btm: 2010.01.25 @ 01:07:49

TEST COMMENT: B.O.B. in 1 1/2 min.
 No return
 B.O.B. in 2+ min.
 No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2039.55	102.31	Initial Hydro-static
1	108.58	101.76	Open To Flow (1)
11	307.61	121.35	Shut-In(1)
41	1142.96	122.95	End Shut-In(1)
41	328.56	122.53	Open To Flow (2)
72	649.70	122.79	Shut-In(2)
163	1024.76	123.22	End Shut-In(2)
164	1963.76	123.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
154.00	m c w 25% m 75% w show of free oil on 12.16	1.16
124.00	s m c w 10% m 90% w	1.74
992.00	water 100% w	13.92

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mak J Energy Kansas LLC

Riner-Kroneberger #1-7

1600 N Broadway
Ste 1740
Denver CO 80202
ATTN: Steve Murphy

7-14s-32w Logan KS
Job Ticket: 37699 DST#: 3
Test Start: 2010.01.24 @ 20:26:04

Tool Information

Drill Pipe:	Length: 4089.00 ft	Diameter: 3.80 inches	Volume: 57.36 bbl	Tool Weight:	1500.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: 57.36 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial	51000.00 lb
Depth to Top Packer:	4110.00 ft			Final	61000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	20.00 ft				
Tool Length:	47.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Change Over Sub	1.00			4084.00	
Shut In Tool	5.00			4089.00	
Hydraulic tool	5.00			4094.00	
Jars	5.00			4099.00	
Safety Joint	2.00			4101.00	
Packer	5.00			4106.00	27.00 Bottom Of Top Packer
Packer	4.00			4110.00	
Stubb	1.00			4111.00	
Recorder	0.00	8368	Inside	4111.00	
Recorder	0.00	6771	Outside	4111.00	
Perforations	14.00			4125.00	
Bullnose	5.00			4130.00	20.00 Bottom Packers & Anchor

Total Tool Length: 47.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mak J Energy Kansas LLC

Riner-Kroneberger #1-7

1600 N Broadway
Ste 1740
Denver CO 80202
ATTN: Steve Murphy

7-14s-32w Logan KS

Job Ticket: 37699 DST#: 3
Test Start: 2010.01.24 @ 20:26:04

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	42500 ppm
Viscosity: 47.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.95 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3500.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
154.00	m c w 25%m 75%w show of free oil on top	2.160
124.00	s m c w 10%m 90%w	1.739
992.00	water 100%w	13.915

Total Length: 1270.00 ft Total Volume: 17.814 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: RW .238 @ 50*f=42,500 chlor

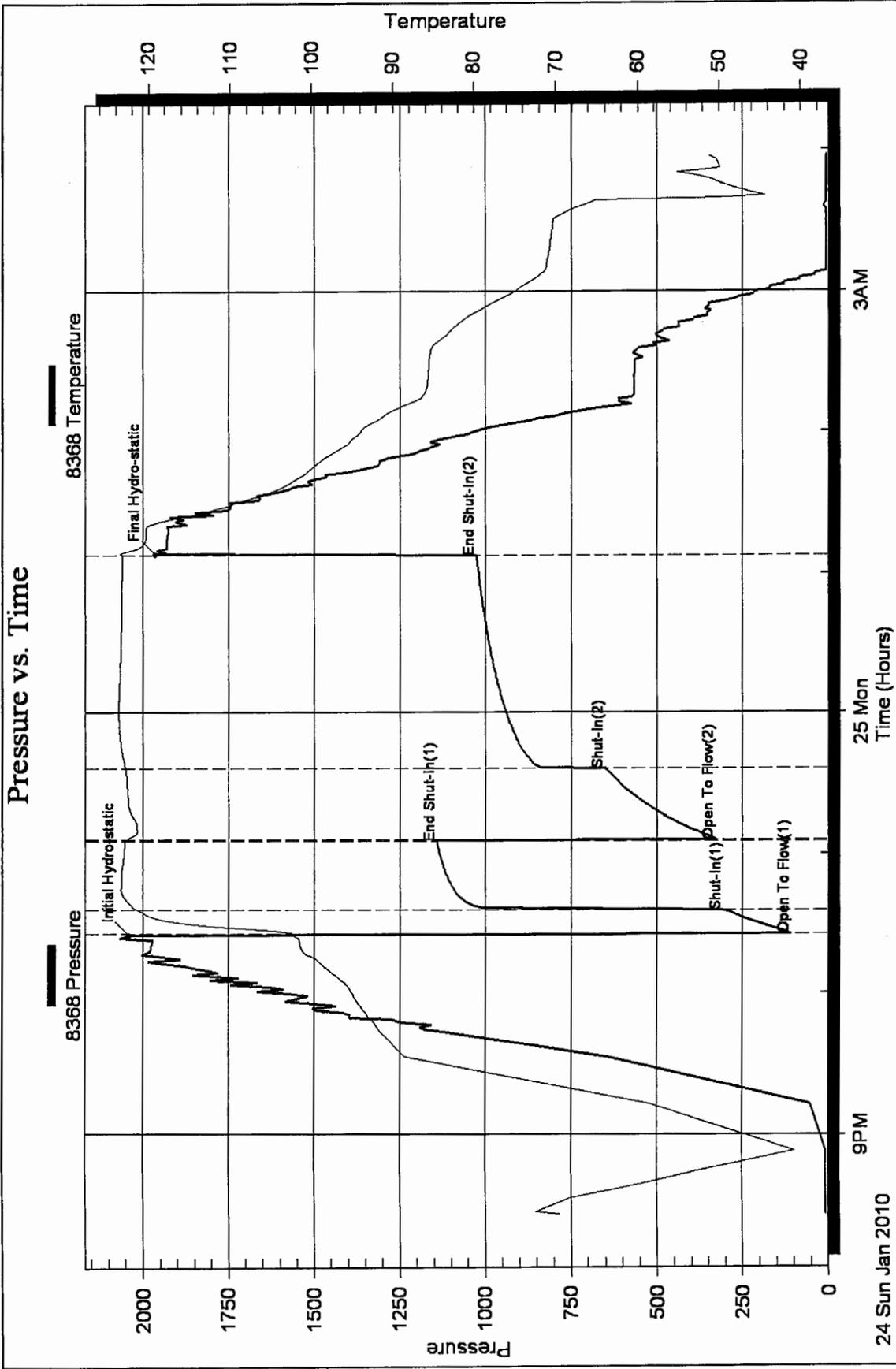
Serial #: 8368

Inside

Mak J Energy Kansas LLC

7-14s-32w Logan KS

DST Test Number: 3





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

RECEIVED

JAN 28 2010

No. 37697 ✓

13846

Well Name & No. Rine-Kroneberger #1-7 BY: _____ Test No. #1 Date 1-23-10
 Company Mark J Energy Kansas LLC Elevation 2855 KB 2850 GL _____
 Address 1600 N Broadway St 1740 Denver, Colo 80202
 Co. Rep / Geo. Steve Murphy Rig American Eng
 Location: Sec. 7 Twp. 14S Rge. 32W Co. Logan State Ks

Interval Tested 3884 3923 Zone Tested C
 Anchor Length _____ 39 Drill Pipe Run 3873 Mud Wt. 9.1
 Top Packer Depth _____ 3879 Drill Collars Run _____ Vis 51
 Bottom Packer Depth _____ 3884 Wt. Pipe Run _____ WL 7.2
 Total Depth _____ 3923 Chlorides 2800 ppm System LCM #1
 Blow Description 1/4" blow
No return
Weak surface blow
No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>10'</u>	<u>mud</u>				<u>100%</u>
	<u>(oil spots in Tool)</u>				

Rec Total 10' BHT 111° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1895</u>	<input checked="" type="checkbox"/> Test <u>1050'</u>	T-On Location <u>00:40</u>
(B) First Initial Flow <u>25</u>	<input checked="" type="checkbox"/> Jars <u>250'</u>	T-Started <u>02:07</u>
(C) First Final Flow <u>28</u>	<input checked="" type="checkbox"/> Safety Joint <u>75'</u>	T-Open <u>04:52</u>
(D) Initial Shut-In <u>1226</u>	<input checked="" type="checkbox"/> Circ Sub <u>W/F</u>	T-Pulled <u>07:32</u>
(E) Second Initial Flow <u>30</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>09:45</u>
(F) Second Final Flow <u>33</u>	<input checked="" type="checkbox"/> Mileage <u>46 RT</u>	Comments _____
(G) Final Shut-In <u>1224</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1818</u>	<input type="checkbox"/> Straddle _____	
Initial Open <u>10</u>	<input checked="" type="checkbox"/> Shale Packer <u>250'</u>	<input type="checkbox"/> Ruined Shale Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Extra Copies _____
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby _____	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility _____	Total <u>11091'</u>
	Sub Total <u>11091'</u>	

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.

P.O. Box 1733 • Hays, Kansas 67601 BY: _____

RECEIVED
JAN 28 2010

Test Ticket

NO. 37698

Well Name & No. Riner-Kroneberger #1-7 Test No. #2 Date 1-24-10
 Company Mar-S Energy Kansas LLC Elevation 2055 KB 2048 GL
 Address 1600 N Broadway Ste. 1740 Denver Colo 80202
 Co. Rep / Geo. Steve Murphy Rig American Eagle
 Location: Sec. _____ Twp. _____ Rge. _____ Co. Logan State Ks

Interval Tested 3997 4070 Zone Tested H-I
 Anchor Length _____ 73 Drill Pipe Run 3996' Mud Wt. 9.3
 Top Packer Depth _____ 3992 Drill Collars Run _____ Vis 47
 Bottom Packer Depth _____ 3997 Wt. Pipe Run _____ WL 7.2
 Total Depth _____ 4070 Chlorides 3500 ppm System LCM #1

Blow Description B.O.B. in 12 min
Return to B.O.B. in 17 min.
B.O.B. @ open
Return to B.O.B. in 18 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>124</u>	<u>CGO</u>	<u>30</u>	<u>70</u>		
<u>2232</u>	<u>CGO</u>	<u>30</u>	<u>70</u>		
<u>124</u>	<u>MCGO</u>	<u>25</u>	<u>55</u>		<u>20</u>
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of <u>(1364' Gas in Pipe)</u>	%gas _____	%oil _____	%water _____	%mud _____
Rec Total <u>2480</u>	BHT <u>118°</u>	Gravity <u>36</u>	API RW _____	@ _____ °F	Chlorides _____ ppm

- (A) Initial Hydrostatic 1959
 - (B) First Initial Flow 332
 - (C) First Final Flow 515
 - (D) Initial Shut-In 1271
 - (E) Second Initial Flow 595
 - (F) Second Final Flow 951
 - (G) Final Shut-In 1262
 - (H) Final Hydrostatic 1903
- Initial Open 16
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 90

- Test 1150'
 - Jars 260'
 - Safety Joint 75'
 - Circ Sub 150°
 - Hourly Standby _____
 - Mileage 66 RT
 - Sampler _____
 - Straddle _____
 - Shale Packer 250'
 - Extra Packer _____
 - Extra Recorder _____
 - Day Standby _____
 - Accessibility _____
- Sub Total 1841'

T-On Location 0010
 T-Started 01:20
 T-Open 03:40
 T-Pulled 06:20
 T-Out 10:30
 Comments _____

 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1841'

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.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
JAN 28 2010

Test Ticket

No. 37699

Well Name & No. River - Krowebegger #1-7 Test No. #3 Date 1-29-10
 Company M&J Energy Kansas LLC Elevation 2855 KB 2848 GL
 Address 1600 N Broadway Ste 1740 Denver Colo 80202
 Co. Rep / Geo. Steve Murphy Rig American Eagle
 Location: Sec. 7 Twp. H5 Rge. 32w Co. Logan State Ks

Interval Tested 4110 4130 Zone Tested K
 Anchor Length 20 Drill Pipe Run 4089' Mud Wt. 9.3
 Top Packer Depth 4105 Drill Collars Run --- Vis 47
 Bottom Packer Depth 4110 Wt. Pipe Run --- WL 8.0
 Total Depth 4130 Chlorides 3500 ppm System LCM #2

Blow Description B.O.B. in 1 1/2 min.
No return
B.O.B. in 2+ min.
No return

Rec	Feet of	Notes	%gas	%oil	%water	%mud
154	Feet of MCW	(Show of free oil on top 3" W)		75	25	
124	Feet of SMCW			90	10	
992	Feet of WATER			100		
	Feet of					
	Feet of					

Rec Total 1270' BHT 123° Gravity --- API RW 238 @ 50 °F Chlorides 42,500 ppm

(A) Initial Hydrostatic <u>2039</u>	<input checked="" type="checkbox"/> Test <u>1150'</u>	T-On Location <u>19:15</u>
(B) First Initial Flow <u>108</u>	<input checked="" type="checkbox"/> Jars <u>250'</u>	T-Started <u>20:25</u>
(C) First Final Flow <u>307</u>	<input checked="" type="checkbox"/> Safety Joint <u>75'</u>	T-Open <u>22:25</u>
(D) Initial Shut-In <u>1142</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>01:05</u>
(E) Second Initial Flow <u>328</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>04:10</u>
(F) Second Final Flow <u>649</u>	<input checked="" type="checkbox"/> Mileage <u>666 RT</u>	Comments
(G) Final Shut-In <u>1024</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1963</u>	<input type="checkbox"/> Straddle	
Initial Open <u>10</u>	<input checked="" type="checkbox"/> Shale Packer <u>250'</u>	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>1791'</u>
	Sub Total <u>1791'</u>	

Approved By _____ Our Representative [Signature]

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