



DRILL STEM TEST REPORT

Prepared For: **Investment Equipment, LLC**

17509 County Rd. 14
Ft. Morgan, CO 80701

ATTN: Marc Downing

Eilers #8

27-10s-18w Rooks,KS

Start Date: 2012.02.13 @ 16:56:15

End Date: 2012.02.14 @ 00:33:45

Job Ticket #: 46909 DST #: 1

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

Printed: 2012.02.29 @ 10:07:45



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Investment Equipment, LLC

27-10s-18w Rooks,KS

17509 County Rd. 14
Ft. Morgan, CO 80701

Eilers #8

ATTN: Marc Downing

Job Ticket: 46909

DST#: 1

Test Start: 2012.02.13 @ 16:56:15

GENERAL INFORMATION:

Formation: **LKC H-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:09:45

Time Test Ended: 00:33:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: 3437.00 ft (KB) To 3498.00 ft (KB) (TVD)

Reference Elevations: 2084.00 ft (KB)

Total Depth: 3498.00 ft (KB) (TVD)

2074.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8354

Inside

Press @ Run Depth: 104.75 psig @ 3475.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.02.13

End Date:

2012.02.14

Last Calib.: 2012.02.14

Start Time: 17:06:15

End Time:

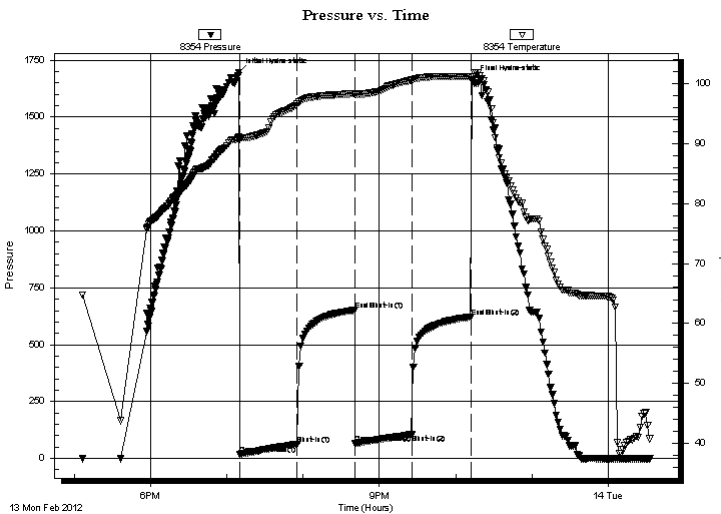
00:33:45

Time On Btm: 2012.02.13 @ 19:09:15

Time Off Btm: 2012.02.13 @ 22:13:45

TEST COMMENT: IF-Very weak building blow . Built to 5 & 3/4 inches.
ISI-No Return.
FF-Very weak building blow . Built to 5 inches.
FSI-No Return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1696.36	91.16	Initial Hydro-static
1	16.45	90.70	Open To Flow (1)
46	63.07	96.64	Shut-In(1)
91	651.40	98.30	End Shut-In(1)
92	65.41	98.18	Open To Flow (2)
136	104.75	100.54	Shut-In(2)
183	622.28	101.16	End Shut-In(2)
185	1665.58	101.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
67.00	5%Oil/95%Mud	0.94
124.00	5%Oil/45%Water/50%Mud	1.74

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Investment Equipment, LLC

27-10s-18w Rooks, KS

17509 County Rd. 14
Ft. Morgan, CO 80701

Eilers #8

ATTN: Marc Downing

Job Ticket: 46909

DST#: 1

Test Start: 2012.02.13 @ 16:56:15

GENERAL INFORMATION:

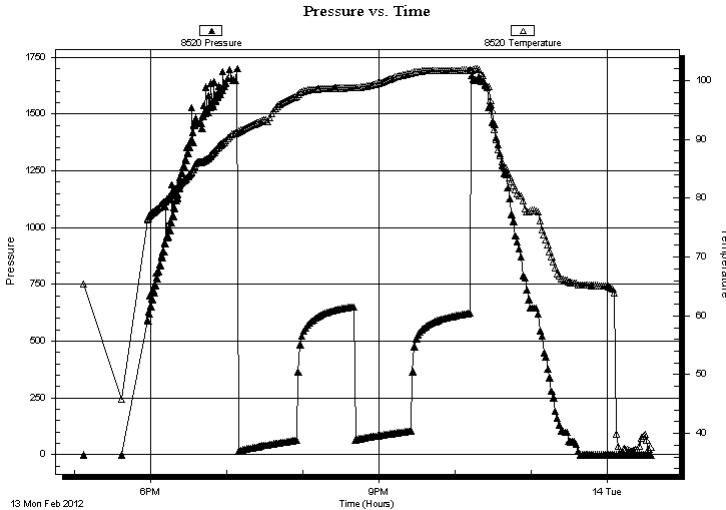
Formation: **LKC H-J**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:09:45
 Time Test Ended: 00:33:45
 Interval: **3437.00 ft (KB) To 3498.00 ft (KB) (TVD)**
 Total Depth: 3498.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Rash
 Unit No: 38
 Reference Elevations: 2084.00 ft (KB)
 2074.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8520 Outside

Press @ Run Depth: psig @ 3475.00 ft (KB)
 Start Date: 2012.02.13 End Date: 2012.02.14
 Start Time: 17:07:15 End Time: 00:33:45
 Capacity: 8000.00 psig
 Last Calib.: 2012.02.14
 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF-Very weak building blow . Built to 5 & 3/4 inches.
 IS-No Return.
 FF-Very weak building blow . Built to 5 inches.
 FS-No Return.

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
67.00	5%Oil/95%Mud	0.94
124.00	5%Oil/45%Water/50%Mud	1.74

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Investment Equipment, LLC

27-10s-18w Rooks,KS

17509 County Rd. 14
Ft. Morgan, CO 80701

Eilers #8

Job Ticket: 46909

DST#: 1

ATTN: Marc Downing

Test Start: 2012.02.13 @ 16:56:15

Tool Information

Drill Pipe:	Length: 3433.00 ft	Diameter: 3.80 inches	Volume: 48.16 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 5000.00 lb
			<u>Total Volume: 48.16 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3437.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	61.00 ft			
Tool Length:	81.00 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			3418.00	
Shut In Tool	5.00			3423.00	
Hydraulic tool	5.00			3428.00	
Packer	5.00			3433.00	20.00 Bottom Of Top Packer
Packer	4.00			3437.00	
Stubb	1.00			3438.00	
Perforations	4.00			3442.00	
Change Over Sub	1.00			3443.00	
Drill Pipe	31.00			3474.00	
Change Over Sub	1.00			3475.00	
Recorder	0.00	8354	Inside	3475.00	
Recorder	0.00	8520	Outside	3475.00	
Perforations	20.00			3495.00	
Bullnose	3.00			3498.00	61.00 Bottom Packers & Anchor

Total Tool Length: 81.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Investment Equipment, LLC

27-10s-18w Rooks,KS

17509 County Rd. 14
Ft. Morgan, CO 80701

Eilers #8

Job Ticket: 46909

DST#: 1

ATTN: Marc Downing

Test Start: 2012.02.13 @ 16:56:15

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:

32000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.58 in³

Gas Cushion Type:

Resistivity: 0.57 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
67.00	5%Oil/95%Mud	0.940
124.00	5%Oil/45%Water/50%Mud	1.739

Total Length: 191.00 ft

Total Volume: 2.679 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

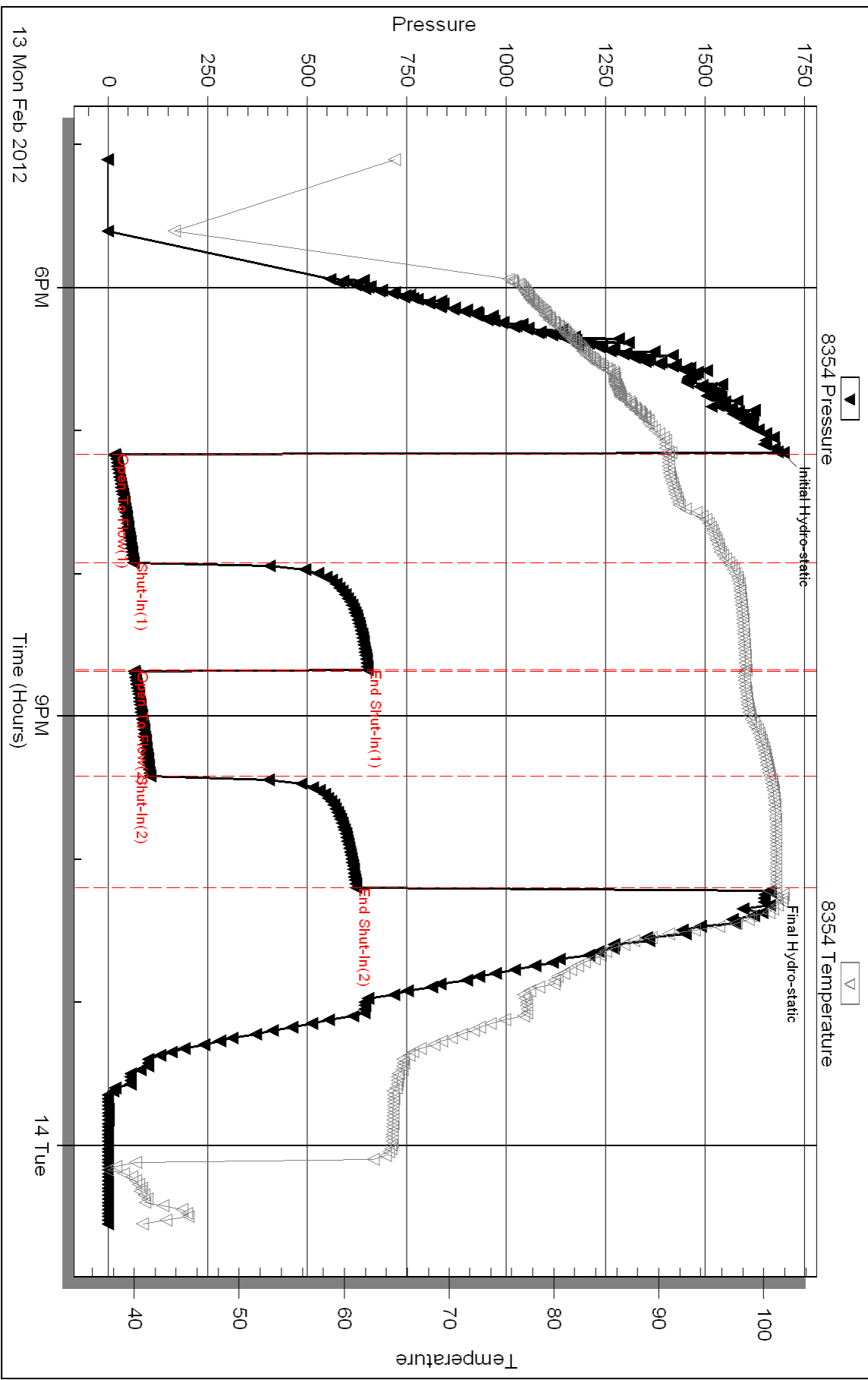
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



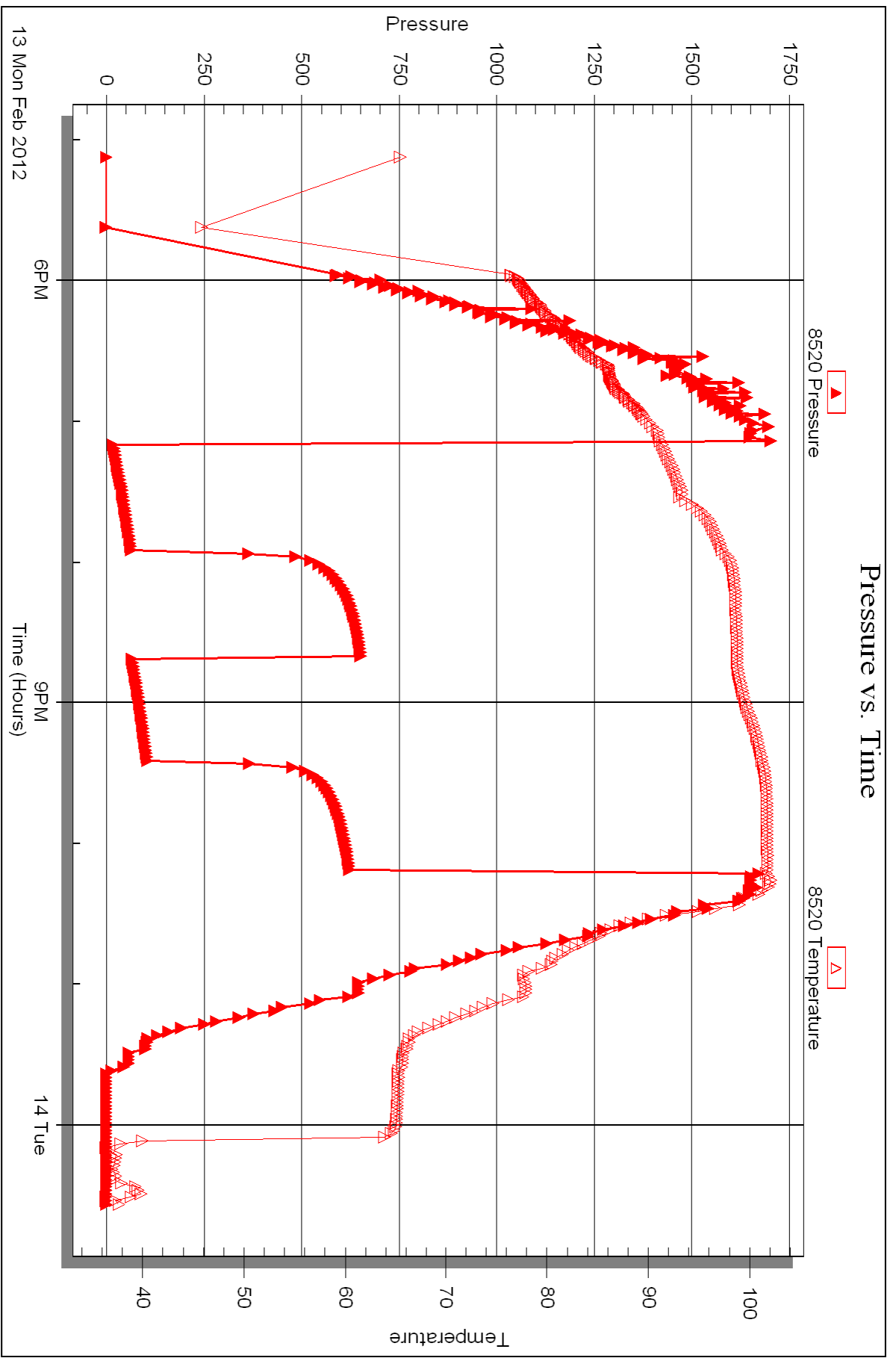
Serial #: 8520

Outside

Investment Equipment, LLC

Eler's #8

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 46909

Printed: 2012.02.29 @ 10:07:48



DRILL STEM TEST REPORT

Prepared For: **Investment Equipment, LLC**

17509 County Rd. 14
Ft. Morgan, CO 80701

ATTN: Marc Downing

Eilers #8

27-10s-18w Rooks,KS

Start Date: 2012.02.14 @ 14:01:30

End Date: 2012.02.14 @ 18:14:30

Job Ticket #: 46910 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.02.29 @ 10:07:08



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Investment Equipment, LLC

27-10s-18w Rooks,KS

17509 County Rd. 14
Ft. Morgan, CO 80701

Eilers #8

Job Ticket: 46910

DST#: 2

ATTN: Marc Downing

Test Start: 2012.02.14 @ 14:01:30

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:34:20

Time Test Ended: 18:14:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: **3600.00 ft (KB) To 3660.00 ft (KB) (TVD)**

Reference Elevations: 2084.00 ft (KB)

Total Depth: 3660.00 ft (KB) (TVD)

2074.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8354 Inside

Press @ Run Depth: 18.63 psig @ 3639.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.02.14

End Date:

2012.02.14

Last Calib.: 2012.02.14

Start Time: 14:11:30

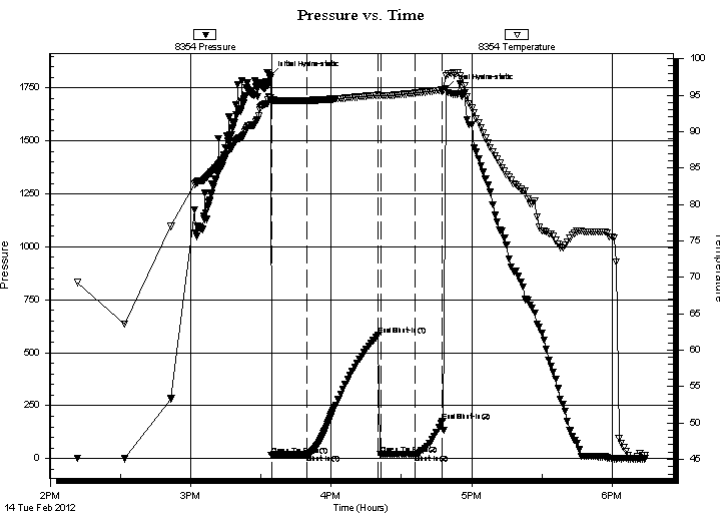
End Time:

18:14:30

Time On Btm: 2012.02.14 @ 15:34:10

Time Off Btm: 2012.02.14 @ 16:49:00

TEST COMMENT: IF-Weak 1/4 inch blow . Died @ 15 minutes.
ISI-No Return.
FF-Few Bubbles.
FSI-Pulled Tool



PRESSURE SUMMARY

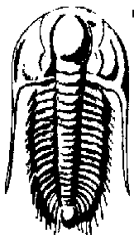
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1809.23	94.69	Initial Hydro-static
1	16.39	94.10	Open To Flow (1)
16	19.33	94.26	Shut-In(1)
46	583.11	95.00	End Shut-In(1)
47	18.36	94.90	Open To Flow (2)
62	18.63	95.28	Shut-In(2)
74	175.08	95.71	End Shut-In(2)
75	1749.03	97.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100%Mud	0.07

Gas Rates

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



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DRILL STEM TEST REPORT

Investment Equipment, LLC

27-10s-18w Rooks, KS

17509 County Rd. 14
Ft. Morgan, CO 80701

Eilers #8

Job Ticket: 46910 **DST#: 2**

ATTN: Marc Downing

Test Start: 2012.02.14 @ 14:01:30

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:34:20

Time Test Ended: 18:14:30

Interval: 3600.00 ft (KB) To 3660.00 ft (KB) (TVD)

Total Depth: 3660.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Reference Elevations: 2084.00 ft (KB)

2074.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8520 Outside

Press @ Run Depth: psig @ 3639.00 ft (KB)

Start Date: 2012.02.14 End Date: 2012.02.14

Start Time: 14:13:00 End Time: 18:14:30

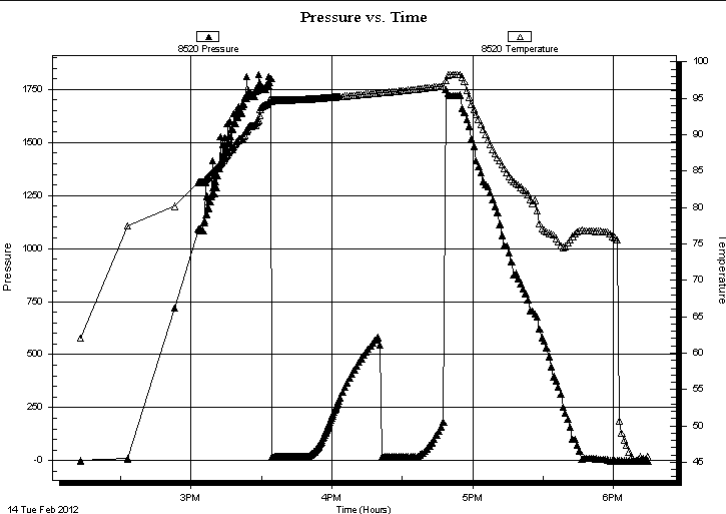
Capacity: 8000.00 psig

Last Calib.: 2012.02.14

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-Weak 1/4 inch blow . Died @ 15 minutes.
IS-No Return.
FF-Few Bubbles.
FSI-Pulled Tool



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100%Mud	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Investment Equipment, LLC

27-10s-18w Rooks,KS

17509 County Rd. 14
Ft. Morgan, CO 80701

Eilers #8

Job Ticket: 46910

DST#: 2

ATTN: Marc Downing

Test Start: 2012.02.14 @ 14:01:30

Tool Information

Drill Pipe:	Length: 3588.00 ft	Diameter: 3.80 inches	Volume: 50.33 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 5000.00 lb
			<u>Total Volume: 50.33 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3600.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	80.00 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			3581.00	
Shut In Tool	5.00			3586.00	
Hydraulic tool	5.00			3591.00	
Packer	5.00			3596.00	20.00 Bottom Of Top Packer
Packer	4.00			3600.00	
Stubb	1.00			3601.00	
Perforations	5.00			3606.00	
Change Over Sub	1.00			3607.00	
Drill Pipe	31.00			3638.00	
Change Over Sub	1.00			3639.00	
Recorder	0.00	8354	Inside	3639.00	
Recorder	0.00	8520	Outside	3639.00	
Perforations	18.00			3657.00	
Bullnose	3.00			3660.00	60.00 Bottom Packers & Anchor

Total Tool Length: 80.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Investment Equipment, LLC

27-10s-18w Rooks,KS

17509 County Rd. 14
Ft. Morgan, CO 80701

Eilers #8

Job Ticket: 46910

DST#: 2

ATTN: Marc Downing

Test Start: 2012.02.14 @ 14:01:30

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:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	100%Mud	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

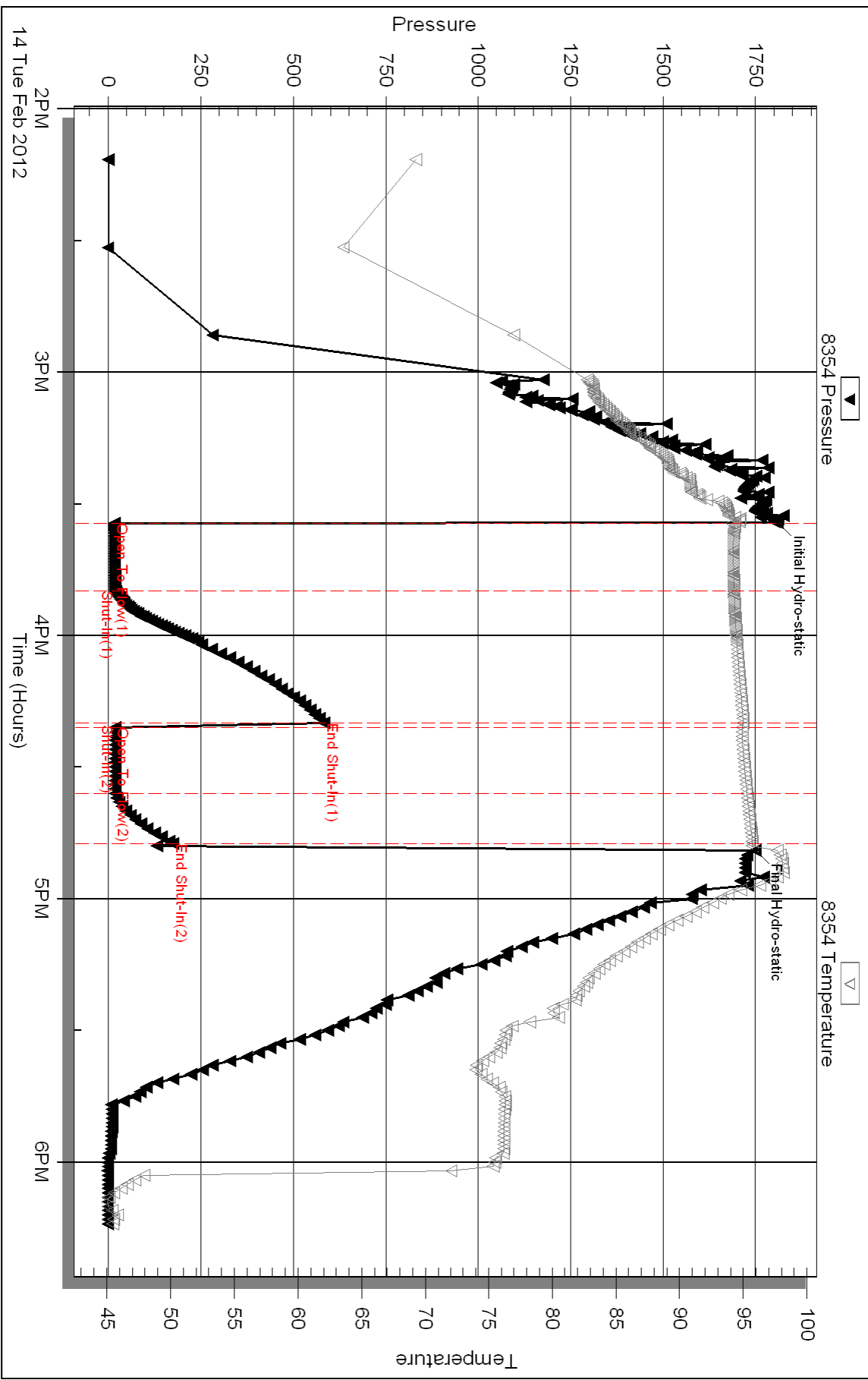
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

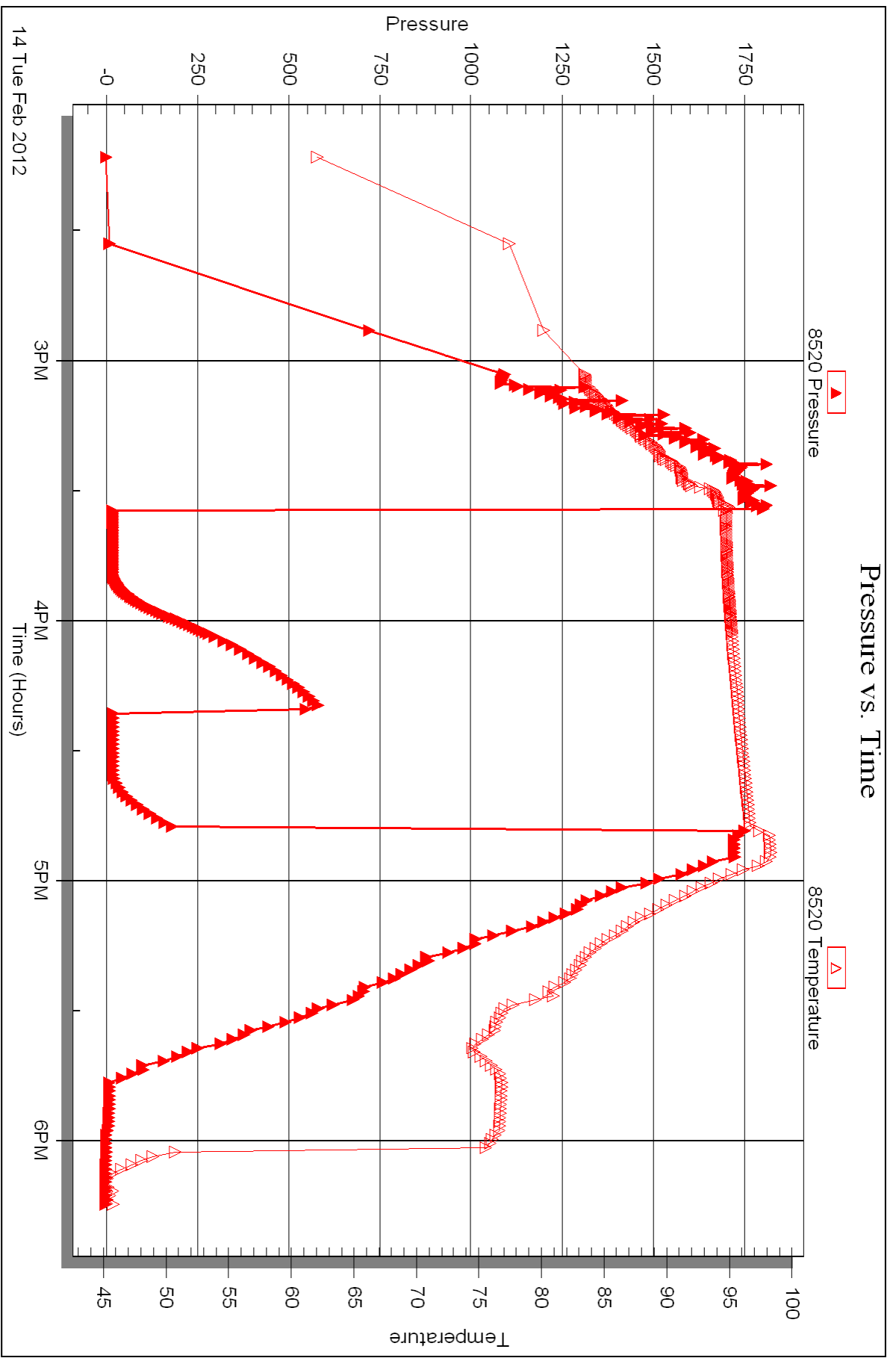


Serial #: 8520

Outside Investment Equipment, LLC

Elers #8

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 46910

Printed: 2012.02.29 @ 10:07:11



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
FEB 24 2012
BY: _____

Test Ticket

NO. 46909

Well Name & No. Eyles #8 Test No. 1 Date 2-13-12
 Company Investment Equipment, LLC Elevation 2084 KB 2074 GL
 Address 17509 County Rd. 14 Ft. Morgan, CO 80701
 Co. Rep / Geo. Marc Downing Rig Maverick 108
 Location: Sec. 27 Twp. 10S Rge. 18W Co. Rooks State KS

Interval Tested 3437-3498 Zone Tested LKC "H-J"
 Anchor Length 61' Drill Pipe Run 3433 Mud Wt. 8.8
 Top Packer Depth 3432 Drill Collars Run 0 Vis 47
 Bottom Packer Depth 3437 Wt. Pipe Run 0 WL 7.6
 Total Depth 3498 Chlorides 1000 ppm System LCM 2#

Blow Description IF-Very weak building blow, Built to 5 3/4 inches,
JSI- No Return,
EF-Very weak building blow, Built to 5 inches,
FBI- No Return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>67</u>	<u>VSOCM</u>	<u>5</u>	<u>5</u>	<u>95</u>	<u>0</u>
<u>124</u>	<u>VSOCWM</u>	<u>5</u>	<u>45</u>	<u>50</u>	<u>0</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 191 BHT 101 Gravity _____ API RW 1.566 @ 22 °F Chlorides 32000 ppm

(A) Initial Hydrostatic 1696 Test 1125 T-On Location 1530
 (B) First Initial Flow 16 Jars _____ T-Started 1730
 (C) First Final Flow 63 Safety Joint _____ T-Open 1909
 (D) Initial Shut-In 651 Circ Sub _____ T-Pulled 2210
 (E) Second Initial Flow 65 Hourly Standby _____ T-Out 0030
 (F) Second Final Flow 105 Mileage 25X2 70 Comments Barr. 1656
 (G) Final Shut-In 622 Sampler _____
 (H) Final Hydrostatic 1666 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____

Initial Open 45 Day Standby _____ Total 1195
 Initial Shut-In 45 Accessibility _____ MP/DST Disc't _____
 Final Flow 45 Sub Total 0
 Final Shut-In 45 Sub Total 1195

Approved By _____ Our Representative D. Rash

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
FEB 24 2012
BY: _____

Test Ticket

NO. 46910

Well Name & No. Eilers #8 Test No. 2 Date 2-14-12
 Company Investment Equipment, LLC Elevation 2084 KB 2074 GL
 Address 17509 County Rd. 14 Ft. Morgan, CO 80701
 Co. Rep / Geo. Marc Downing Rig Maverick 108
 Location: Sec. 27 Twp. 10S Rge. 18W Co. Rooks State KS

Interval Tested 3600-3660 Zone Tested Ambuckle
 Anchor Length 60' Drill Pipe Run 3588 Mud Wt. 9.2
 Top Packer Depth 3595 Drill Collars Run 0 Vis 49
 Bottom Packer Depth 3600 Wt. Pipe Run 0 WL 8.8
 Total Depth 3660 Chlorides 3000 ppm System LCM 1.5#
 Blow Description FF- Weak 1/4 inch blow. Dried @ 15 minutes.
ISI- No Return.
FF- Few bubbles
FST- Pulled Tool.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 98 Gravity 1125 API RW @ 70 °F Chlorides _____ ppm

(A) Initial Hydrostatic 1809 Test 1125 T-On Location 1345
 (B) First Initial Flow 16 Jars _____ T-Started 1415
 (C) First Final Flow 19 Safety Joint _____ T-Open 1534
 (D) Initial Shut-In 583 Circ Sub _____ T-Pulled 1650
 (E) Second Initial Flow 18 Hourly Standby _____ T-Out 1815
 (F) Second Final Flow 19 Mileage 25X2 70 Comments Bart=1401
 (G) Final Shut-In 175 Sampler _____
 (H) Final Hydrostatic 1749 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 15 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1195
 Final Flow 15 Accessibility _____ MP/DST Disc't _____
 Final Shut-In Pulled Sub Total 1195

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.