



DRILL STEM TEST REPORT

Prepared For: **Herman L. Loeb, LLC**

PO Box 838
Lawrenceville IL 62439

ATTN: Tom Pronold

Beetz A #3-28

28-17s-13w Barton,KS

Start Date: 2012.06.24 @ 10:40:00

End Date: 2012.06.24 @ 18:03:00

Job Ticket #: 49260 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.06.27 @ 15:00:15



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Herman L. Loeb, LLC
 PO Box 838
 Lawrenceville IL 62439
 ATTN: Tom Pronold

28-17s-13w Barton,KS

Beetz A #3-28

Job Ticket: 49260

DST#: 1

Test Start: 2012.06.24 @ 10:40:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 12:21:00
 Tester: Brett Dickinson
 Time Test Ended: 18:03:00
 Unit No: 59
 Interval: **3386.00 ft (KB) To 3395.00 ft (KB) (TVD)**
 Reference Elevations: 1926.00 ft (KB)
 Total Depth: 3395.00 ft (KB) (TVD)
 1918.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 8.00 ft

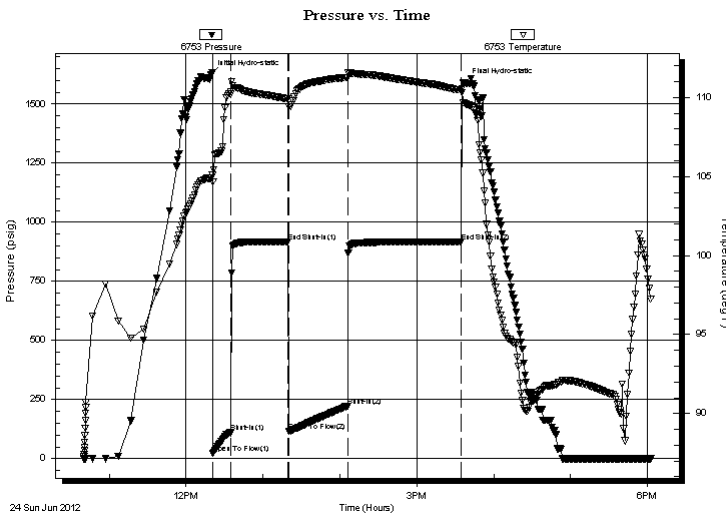
Serial #: 6753

Inside

Press @ Run Depth: 223.41 psig @ 3387.00 ft (KB)
 Capacity: 8000.00 psig
 Start Date: 2012.06.24
 End Date: 2012.06.24
 Last Calib.: 2012.06.24
 Start Time: 10:40:05
 End Time: 18:02:59
 Time On Btm: 2012.06.24 @ 12:19:30
 Time Off Btm: 2012.06.24 @ 15:37:30

TEST COMMENT: IF-BOB in 11 min
 ISI-No blow
 FF-BOB in 12.5 min
 FSI-Very weak surface blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1625.35	104.90	Initial Hydro-static
2	24.08	104.65	Open To Flow (1)
16	112.00	110.38	Shut-In(1)
60	918.55	109.92	End Shut-In(1)
61	115.79	109.44	Open To Flow (2)
107	223.41	111.26	Shut-In(2)
195	917.96	110.46	End Shut-In(2)
198	1590.43	109.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
115.00	V SOMCW 2%O 78%W 20%M	0.57
130.00	V SOMCW 2%O 63%W 35%M	0.95
130.00	G SWCO 15%G 75%O 10%W	1.82
165.00	GO 15%G 85%O	2.31
0.00	90ft GIP	0.00

Gas Rates

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



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Herman L. Loeb, LLC
 PO Box 838
 Lawrenceville IL 62439
 ATTN: Tom Pronold

28-17s-13w Barton,KS

Beetz A #3-28

Job Ticket: 49260

DST#: 1

Test Start: 2012.06.24 @ 10:40:00

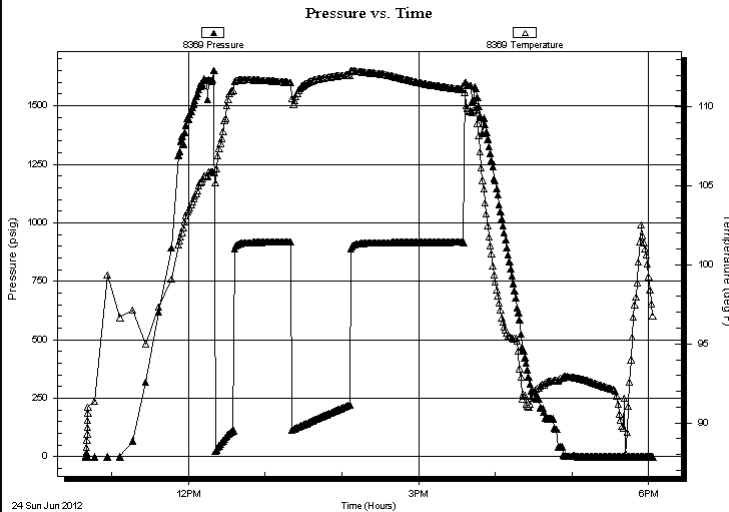
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 12:21:00 Tester: Brett Dickinson
 Time Test Ended: 18:03:00 Unit No: 59
 Interval: **3386.00 ft (KB) To 3395.00 ft (KB) (TVD)** Reference Elevations: 1926.00 ft (KB)
 Total Depth: 3395.00 ft (KB) (TVD) 1918.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8369 Outside

Press @ Run Depth: psig @ 3387.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.06.24 End Date: 2012.06.24 Last Calib.: 2012.06.24
 Start Time: 10:39:35 End Time: 18:02:59 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF-BOB in 11 min
 ISI-No blow
 FF-BOB in 12.5 min
 FSI-Very weak surface blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
115.00	V SOMCW 2%O 78%W 20%M	0.57
130.00	V SOMCW 2%O 63%W 35%M	0.95
130.00	G SWCO 15%G 75%O 10%W	1.82
165.00	GO 15%G 85%O	2.31
0.00	90ft GIP	0.00

Gas Rates

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



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Herman L. Loeb, LLC

28-17s-13w Barton,KS

PO Box 838
Lawrenceville IL 62439

Beetz A #3-28

Job Ticket: 49260

DST#: 1

ATTN: Tom Pronold

Test Start: 2012.06.24 @ 10:40:00

Tool Information

Drill Pipe:	Length: 3163.00 ft	Diameter: 3.80 inches	Volume: 44.37 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 211.00 ft	Diameter: 2.25 inches	Volume: 1.04 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	3386.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	9.00 ft			
Tool Length:	37.00 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			3359.00	
Shut In Tool	5.00			3364.00	
Hydraulic tool	5.00			3369.00	
Jars	5.00			3374.00	
Safety Joint	2.00			3376.00	
Packer	5.00			3381.00	28.00 Bottom Of Top Packer
Packer	5.00			3386.00	
Stubb	1.00			3387.00	
Recorder	0.00	6753	Inside	3387.00	
Recorder	0.00	8369	Outside	3387.00	
Perforations	5.00			3392.00	
Bullnose	3.00			3395.00	9.00 Bottom Packers & Anchor

Total Tool Length: 37.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Herman L. Loeb, LLC

28-17s-13w Barton,KS

PO Box 838
Lawrenceville IL 62439

Beetz A #3-28

Job Ticket: 49260

DST#: 1

ATTN: Tom Pronold

Test Start: 2012.06.24 @ 10:40:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

26000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
115.00	VSOMCW 2%O 78%W 20%M	0.566
130.00	VSOMCW 2%O 63%W 35%M	0.949
130.00	GSWCO 15%G 75%O 10%W	1.824
165.00	GO 15%G 85%O	2.315
0.00	90ft GIP	0.000

Total Length: 540.00 ft Total Volume: 5.654 bbl

Num Fluid Samples: 0

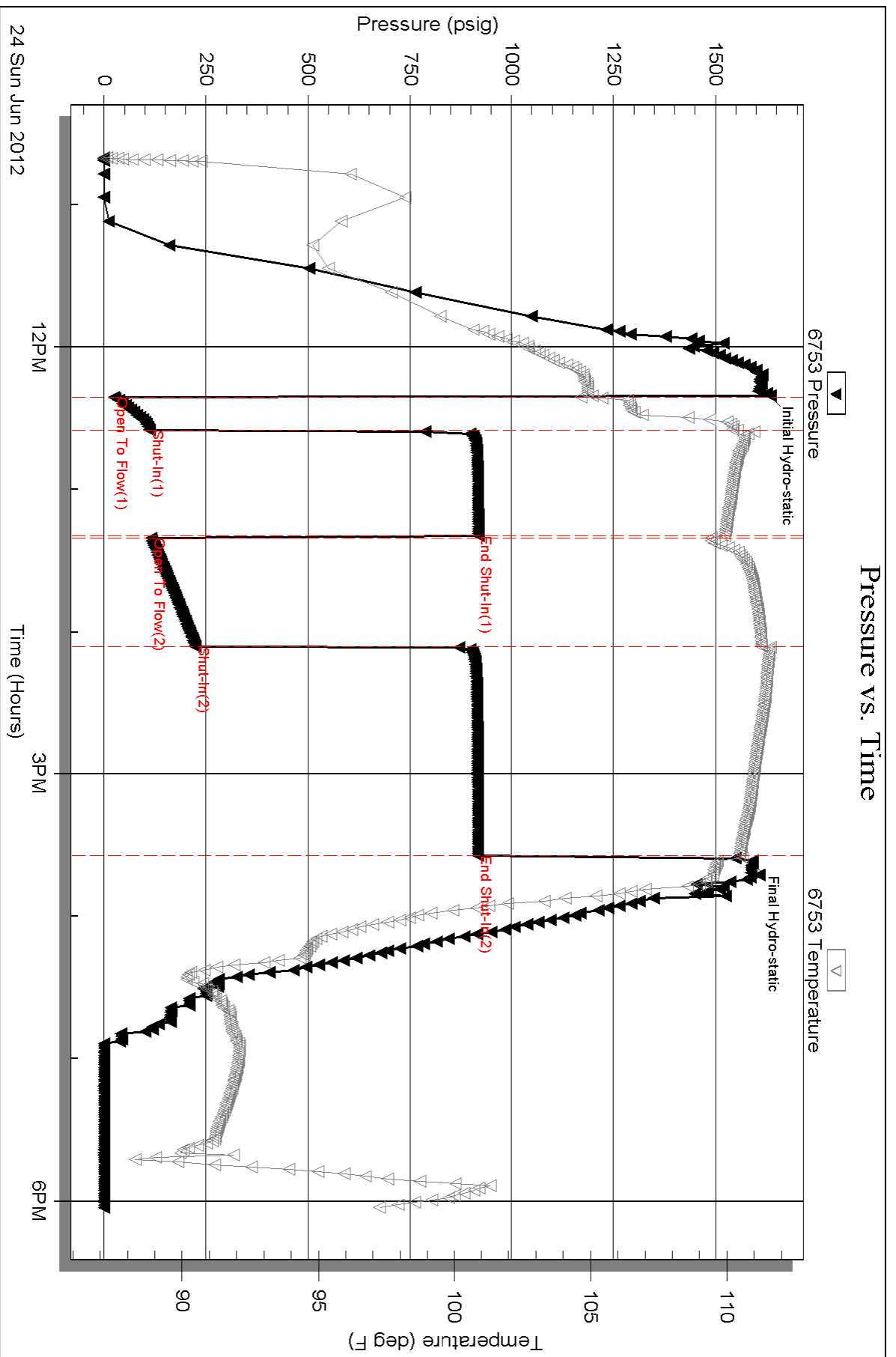
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .19@100

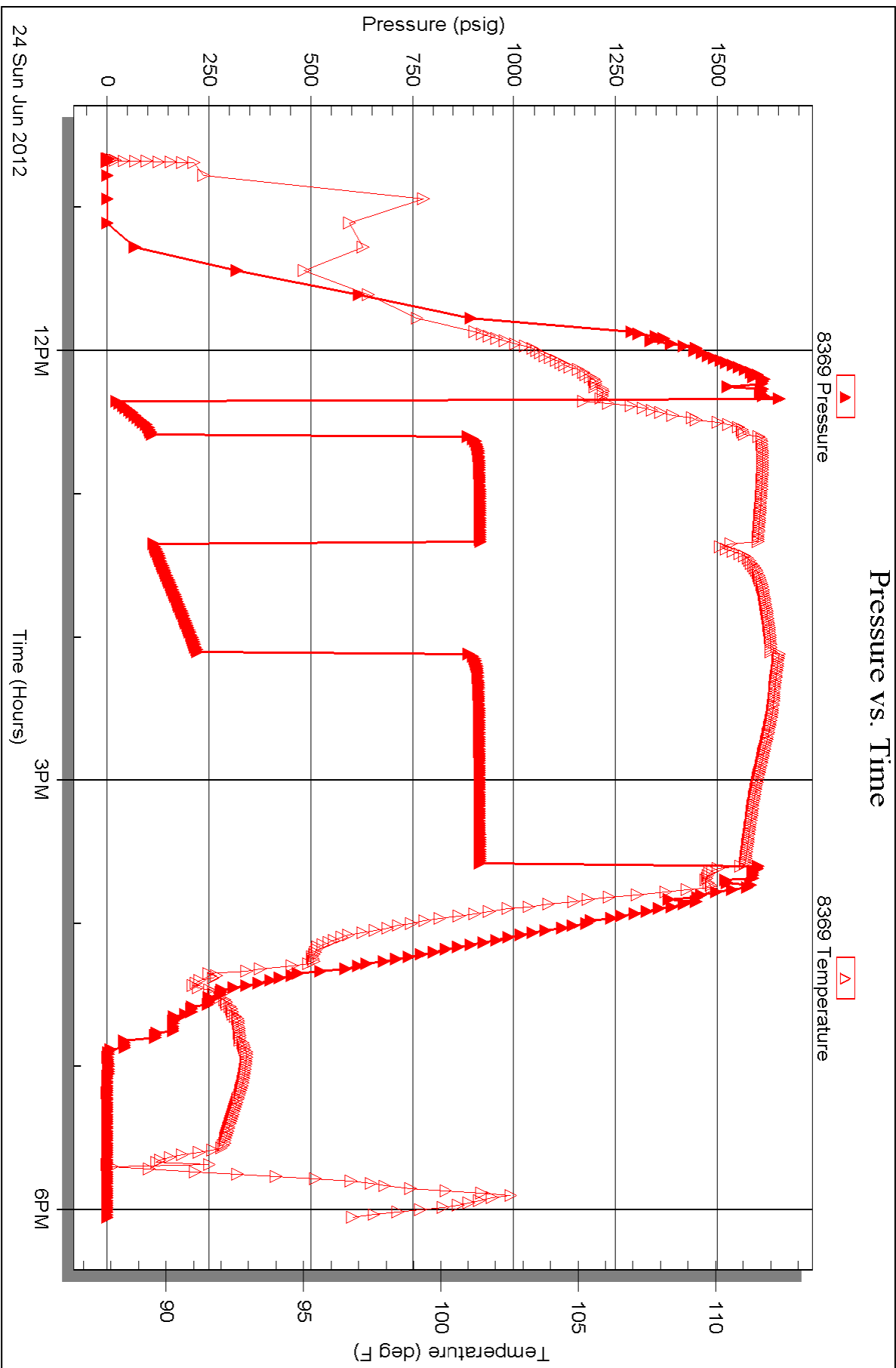


Serial #: 8369

Outside Herran L. Loeb, LLC

Beetz A #3-28

DST Test Number: 1





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49260

Well Name & No. Bectz 'A' #3-28 Test No. 1 Date 6/24/12
 Company Herman L. Loeb, LLC Elevation 1926 KB 1918 GL
 Address PO Box 838 Lawrenceville IL 62439
 Co. Rep / Geo. Tom Pronold Rig Sterling #4
 Location: Sec. 28 Twp. 17 Rge. 13 Co. Barton State KS

Interval Tested 3386 - 3395 Zone Tested Arb
 Anchor Length 9 Drill Pipe Run 3163 Mud Wt. 9.6
 Top Packer Depth 3381 Drill Collars Run 211 Vis 58
 Bottom Packer Depth 3386 Wt. Pipe Run — WL 8.4
 Total Depth 3395 Chlorides 4,700 ppm System LCM 0
 Blow Description IF - BOB in 11min
ISI - No blow
FF - BOB in 12 1/2 min
FSI - very weak surface blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>115</u>	<u>v SOMCW</u>	<u>2</u>	<u>78</u>	<u>20</u>	
<u>130</u>	<u>v SOMCW</u>	<u>2</u>	<u>63</u>	<u>35</u>	
<u>130</u>	<u>GSWCO</u>	<u>15</u>	<u>75</u>	<u>10</u>	
<u>165</u>	<u>GG</u>	<u>15</u>	<u>85</u>		
	<u>90 FT GIP</u>				

Rec Total 540 BHT 110 Gravity 38 API RW .19 @ 100 °F Chlorides 26,000 ppm

(A) Initial Hydrostatic 1,625 Test 1150 T-On Location 10:20
 (B) First Initial Flow 24 Jars 250 T-Started 10:40
 (C) First Final Flow 112 Safety Joint 75 T-Open 12:15
 (D) Initial Shut-In 919 Circ Sub _____ T-Pulled 15:30
 (E) Second Initial Flow 116 Hourly Standby _____ T-Out 18:02
 (F) Second Final Flow 223 Mileage ~~106.7~~ 106.7 164.30 Comments _____
 (G) Final Shut-In 918 Sampler _____
 (H) Final Hydrostatic 1,590 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1639.30
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1639.30

Approved By Tom Pronold Our Representative Brian D...

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