



DRILL STEM TEST REPORT

Prepared For: **Prospect Oil & Gas**

PO Box 837
Russell KS 67665

ATTN: Randy Kilian

Hall A-2

9-11s-19w Ellis,KS

Start Date: 2012.08.15 @ 19:00:00

End Date: 2012.08.16 @ 00:52:30

Job Ticket #: 47093 DST #: 1

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

Printed: 2012.08.17 @ 09:08:40



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prospect Oil & Gas

9-11s-19w Ellis, KS

PO Box 837
Russell KS 67665

Hall A-2

Job Ticket: 47093

DST#: 1

ATTN: Randy Kilian

Test Start: 2012.08.15 @ 19:00:00

GENERAL INFORMATION:

Formation: **Conglomerate Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:04:00

Time Test Ended: 00:52:30

Test Type: Conventional Straddle (Initial)

Tester: Brett Dickinson

Unit No: 59

Interval: 3510.00 ft (KB) To 3696.00 ft (KB) (TVD)

Reference Elevations: 2087.00 ft (KB)

Total Depth: 3618.00 ft (KB) (TVD)

2082.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8319

Inside

Press @ Run Depth: 40.42 psig @ 3614.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.15

End Date:

2012.08.16

Last Calib.:

2012.08.16

Start Time: 19:00:05

End Time:

00:52:29

Time On Btm:

2012.08.15 @ 21:02:30

Time Off Btm:

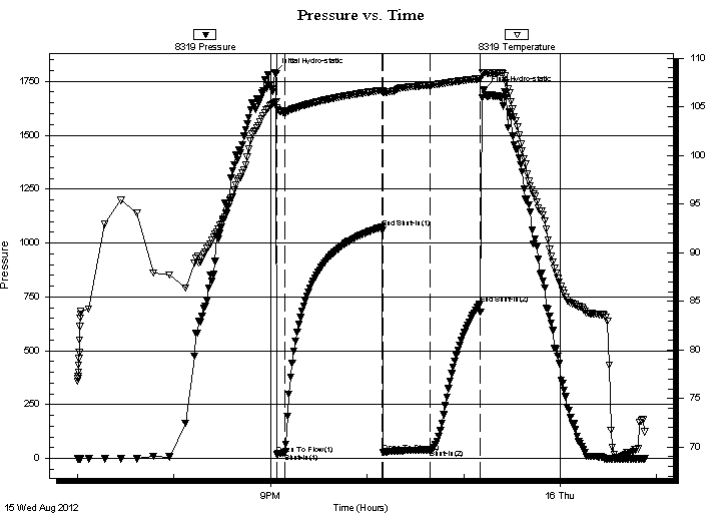
2012.08.15 @ 23:12:30

TEST COMMENT: IF-1 1/4" blow

ISI-No blow

FF-No Blow

FSI-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1791.37	105.41	Initial Hydro-static
2	20.96	104.86	Open To Flow (1)
7	26.16	104.42	Shut-In(1)
67	1072.37	106.69	End Shut-In(1)
68	29.10	106.47	Open To Flow (2)
97	40.42	107.24	Shut-In(2)
128	717.20	107.89	End Shut-In(2)
130	1709.25	108.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	VSOCM 2%O 98%M	0.21

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Prospect Oil & Gas

9-11s-19w Ellis,KS

PO Box 837
Russell KS 67665

Hall A-2

Job Ticket: 47093

DST#: 1

ATTN: Randy Kilian

Test Start: 2012.08.15 @ 19:00:00

Tool Information

Drill Pipe:	Length: 3058.00 ft	Diameter: 3.80 inches	Volume: 42.90 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 437.00 ft	Diameter: 2.70 inches	Volume: 3.09 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: 45000.00 lb
			<u>Total Volume: 45.99 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3510.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	3618.00 ft			
Interval between Packers:	108.00 ft			
Tool Length:	212.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description

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

Change Over Sub	1.00			3488.00	
Shut In Tool	5.00			3493.00	
Hydraulic tool	5.00			3498.00	
Safety Joint	3.00			3501.00	
Packer	4.00			3505.00	23.00 Bottom Of Top Packer
Packer	5.00			3510.00	
Stubb	1.00			3511.00	
Perforations	1.00			3512.00	
change Over Sub	1.00			3513.00	
Blank Spacing	95.00			3608.00	
change Over Sub	1.00			3609.00	
Perforations	5.00			3614.00	
Recorder	0.00	8319	Inside	3614.00	
Recorder	0.00	8166	Outside	3614.00	
Blank Off Sub	4.00			3618.00	108.00 Tool Interval
Packer	4.00			3622.00	
Stubb	1.00			3623.00	
Recorder	0.00	6753	Below	3623.00	
perforations	8.00			3631.00	
Change Over Sub	1.00			3632.00	
Blank Spacing	63.00			3695.00	
Change Over Sub	1.00			3696.00	
Bullnose	3.00			3699.00	81.00 Bottom Packers & Anchor
Total Tool Length:	212.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Prospect Oil & Gas

9-11s-19w Ellis,KS

PO Box 837
Russell KS 67665

Hall A-2

Job Ticket: 47093

DST#: 1

ATTN: Randy Kilian

Test Start: 2012.08.15 @ 19:00:00

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: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	VSOCM 2%O 98%M	0.212

Total Length: 30.00 ft Total Volume: 0.421 bbl

Num Fluid Samples: 0

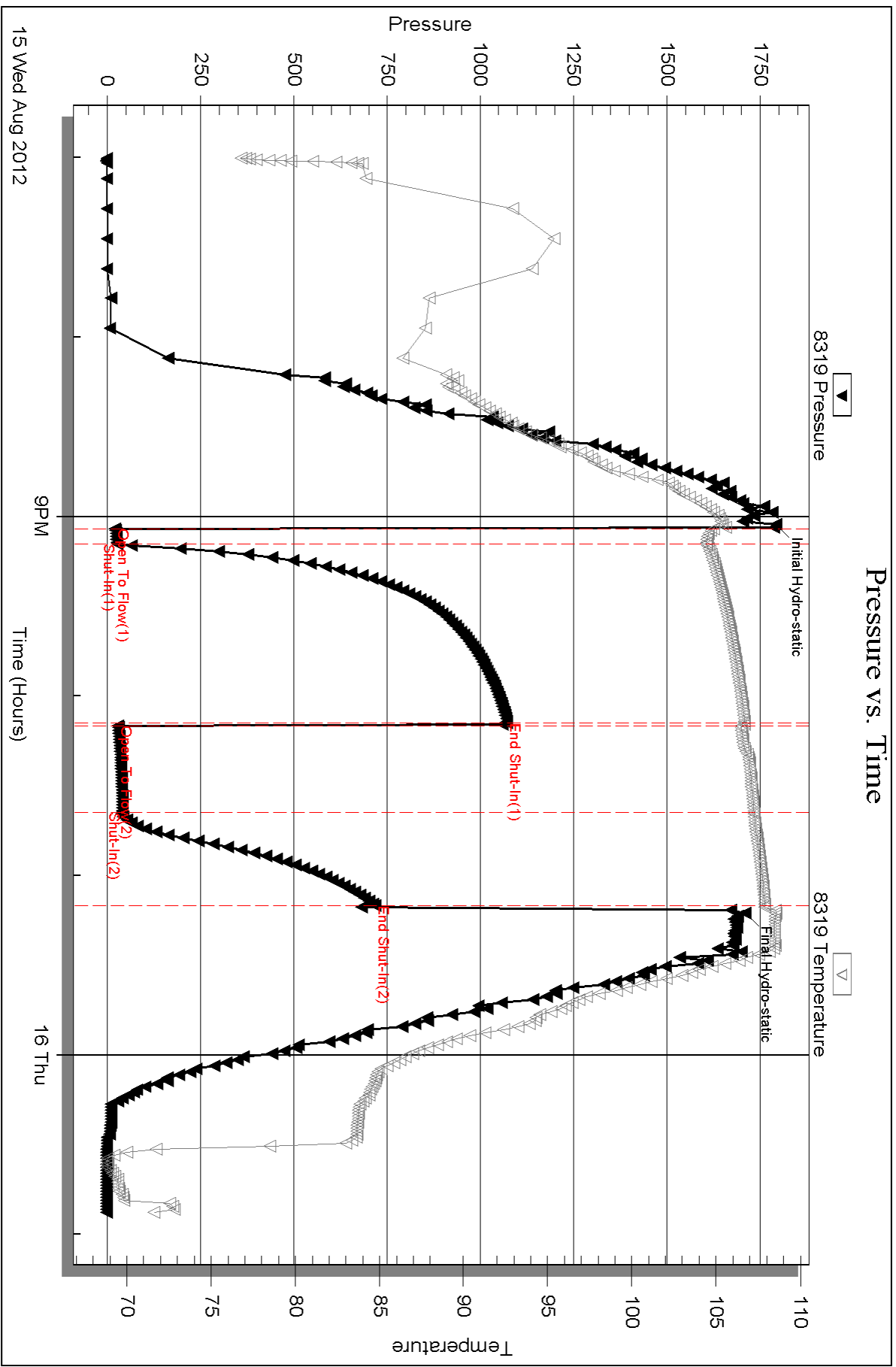
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

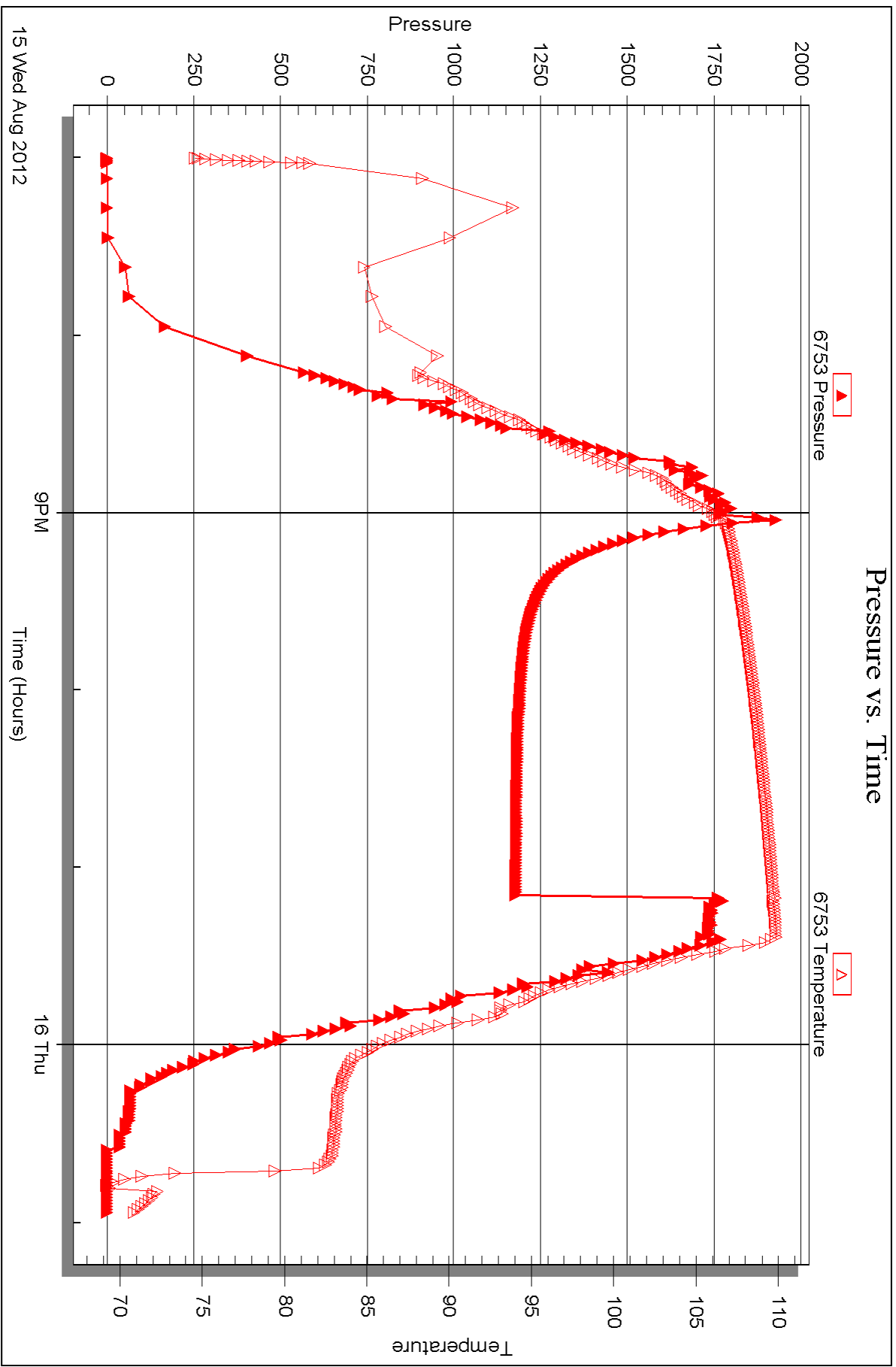


Serial #: 6753

Below (Strat) Spect Oil & Gas

Hall A-2

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Prospect Oil & Gas**

PO Box 837
Russell KS 67665

ATTN: Randy Kilian

Hall A-2

9-11s-19w Ellis,KS

Start Date: 2012.08.16 @ 01:18:00

End Date: 2012.08.16 @ 07:00:00

Job Ticket #: 47094 DST #: 2

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

Printed: 2012.08.17 @ 09:07:24



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prospect Oil & Gas

9-11s-19w Ellis, KS

PO Box 837
Russell KS 67665

Hall A-2

Job Ticket: 47094

DST#: 2

ATTN: Randy Kilian

Test Start: 2012.08.16 @ 01:18:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:21:00

Time Test Ended: 07:00:00

Test Type: Conventional Straddle (Reset)

Tester: Brett Dickinson

Unit No: 59

Interval: 3620.00 ft (KB) To 3636.00 ft (KB) (TVD)

Reference Elevations: 2087.00 ft (KB)

Total Depth: 3696.00 ft (KB) (TVD)

2082.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8319

Inside

Press @ Run Depth: 17.74 psig @ 3632.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.16

End Date:

2012.08.16

Last Calib.:

2012.08.16

Start Time: 01:18:05

End Time:

06:59:59

Time On Btm:

2012.08.16 @ 03:19:00

Time Off Btm:

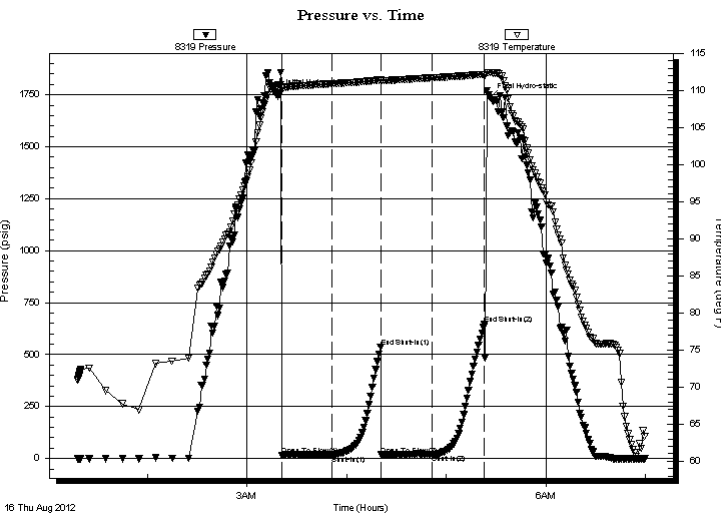
2012.08.16 @ 05:26:30

TEST COMMENT: IF-Very weak surface blow died in 18 min

ISI-No blow

FF-No blow

FSI-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1757.24	110.74	Initial Hydro-static
2	16.28	110.34	Open To Flow (1)
32	17.57	110.90	Shut-In(1)
62	535.53	111.41	End Shut-In(1)
62	17.49	111.27	Open To Flow (2)
93	17.74	111.70	Shut-In(2)
124	645.04	112.17	End Shut-In(2)
128	1734.56	112.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	VSOCM 5%O 95%M	0.04

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Prospect Oil & Gas

9-11s-19w Ellis, KS

PO Box 837
Russell KS 67665

Hall A-2

Job Ticket: 47094

DST#: 2

ATTN: Randy Kilian

Test Start: 2012.08.16 @ 01:18:00

Tool Information

Drill Pipe:	Length: 3190.00 ft	Diameter: 3.80 inches	Volume: 44.75 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 437.00 ft	Diameter: 2.70 inches	Volume: 3.09 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: 65000.00 lb
			<u>Total Volume: 47.84 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3620.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	3636.00 ft			
Interval between Packers:	16.00 ft			
Tool Length:	105.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			3598.00	
Shut In Tool	5.00			3603.00	
Hydraulic tool	5.00			3608.00	
Safety Joint	3.00			3611.00	
Packer	4.00			3615.00	23.00 Bottom Of Top Packer
Packer	5.00			3620.00	
Stubb	1.00			3621.00	
Perforations	11.00			3632.00	
Recorder	0.00	8319	Inside	3632.00	
Recorder	0.00	8166	Outside	3632.00	
Blank Off Sub	4.00			3636.00	16.00 Tool Interval
Packer	4.00			3640.00	
Stubb	1.00			3641.00	
Recorder	0.00	6753	Below	3641.00	
perforations	24.00			3665.00	
Change Over Sub	1.00			3666.00	
Blank Spacing	32.00			3698.00	
Change Over Sub	1.00			3699.00	
Bullnose	3.00			3702.00	66.00 Bottom Packers & Anchor

Total Tool Length: 105.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Prospect Oil & Gas

9-11s-19w Ellis,KS

PO Box 837
Russell KS 67665

Hall A-2

Job Ticket: 47094

DST#: 2

ATTN: Randy Kilian

Test Start: 2012.08.16 @ 01:18:00

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: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	VSOCM 5%O 95%M	0.035

Total Length: 5.00 ft Total Volume: 0.035 bbl

Num Fluid Samples: 0

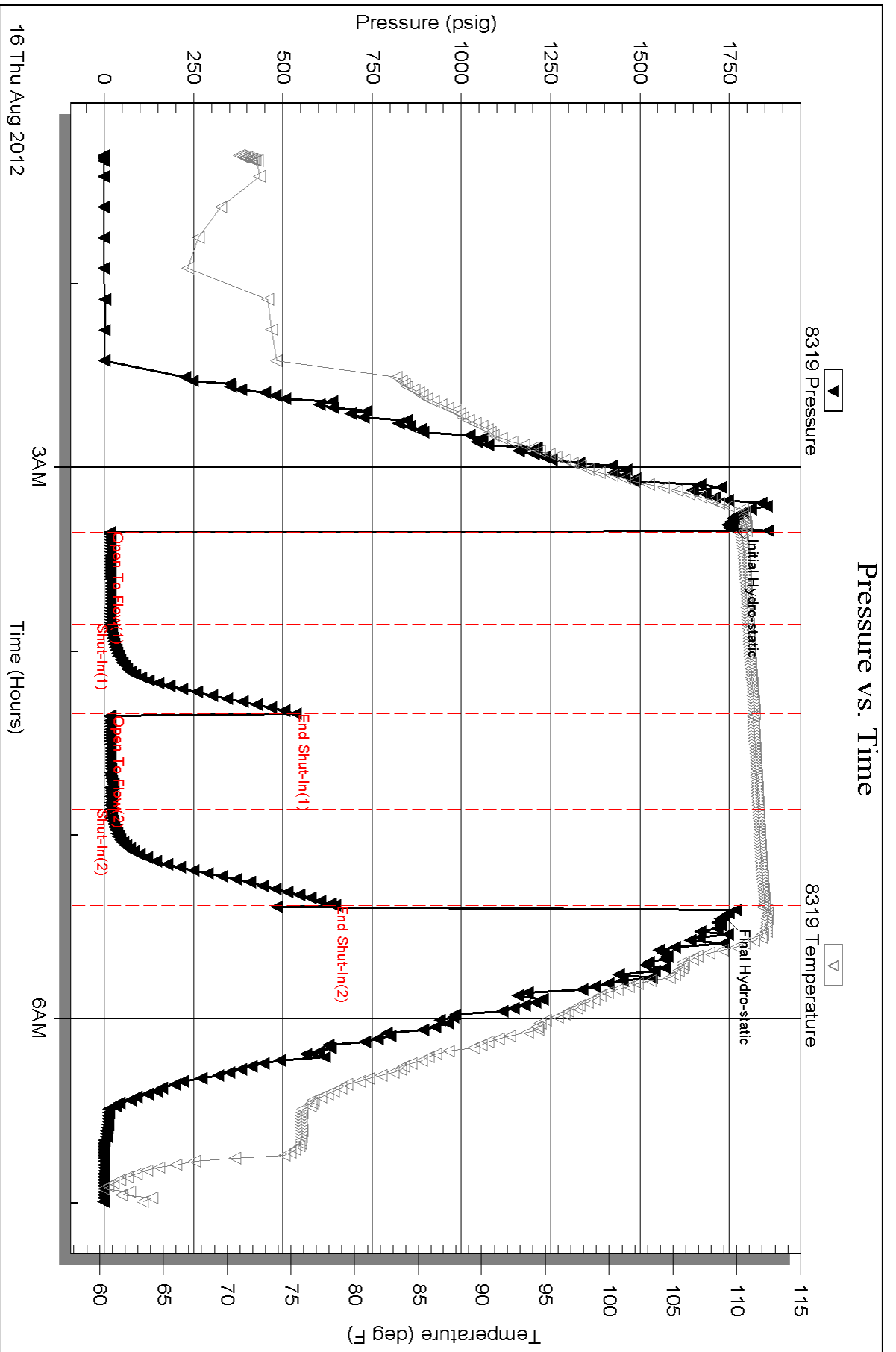
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

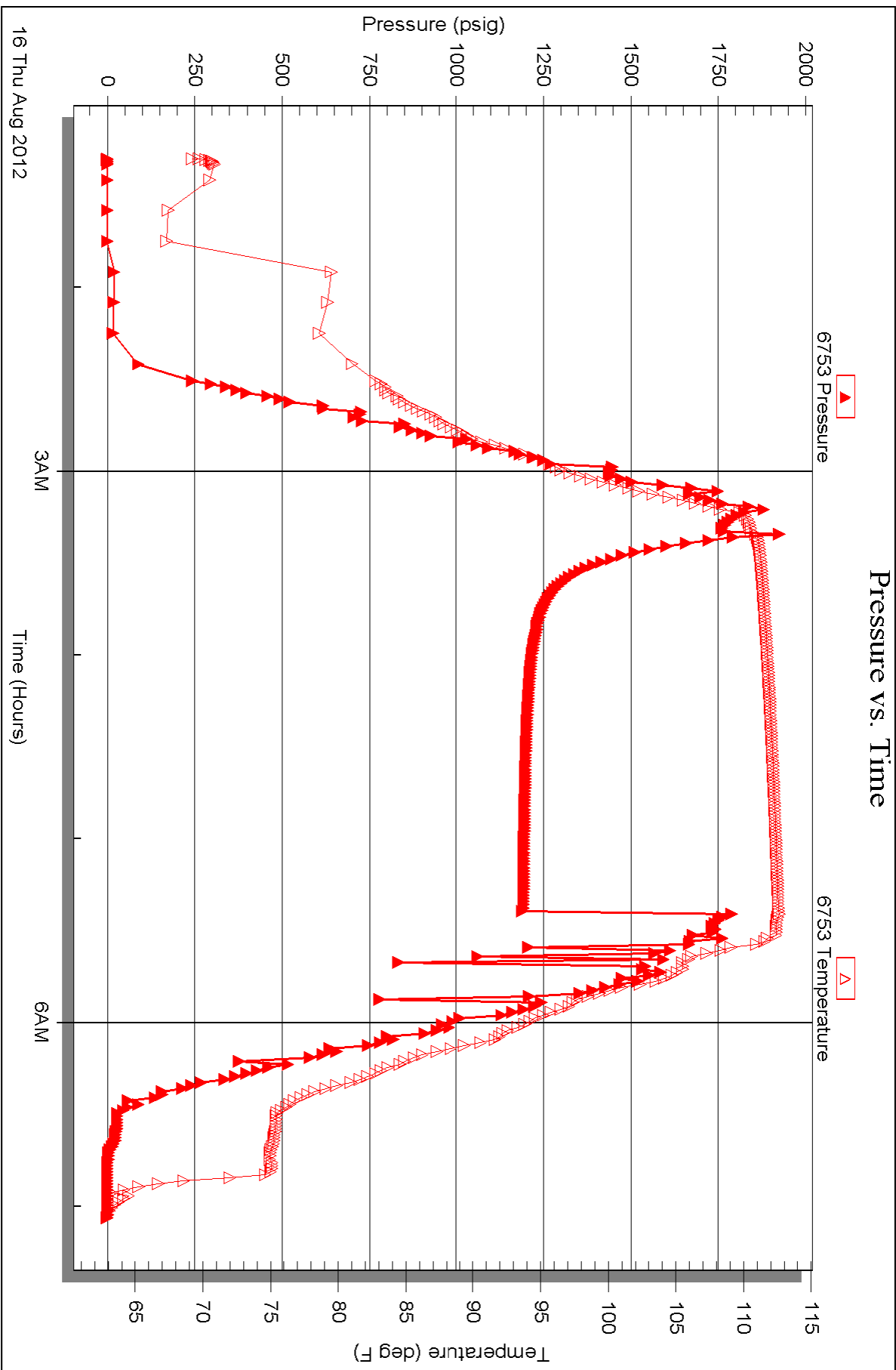


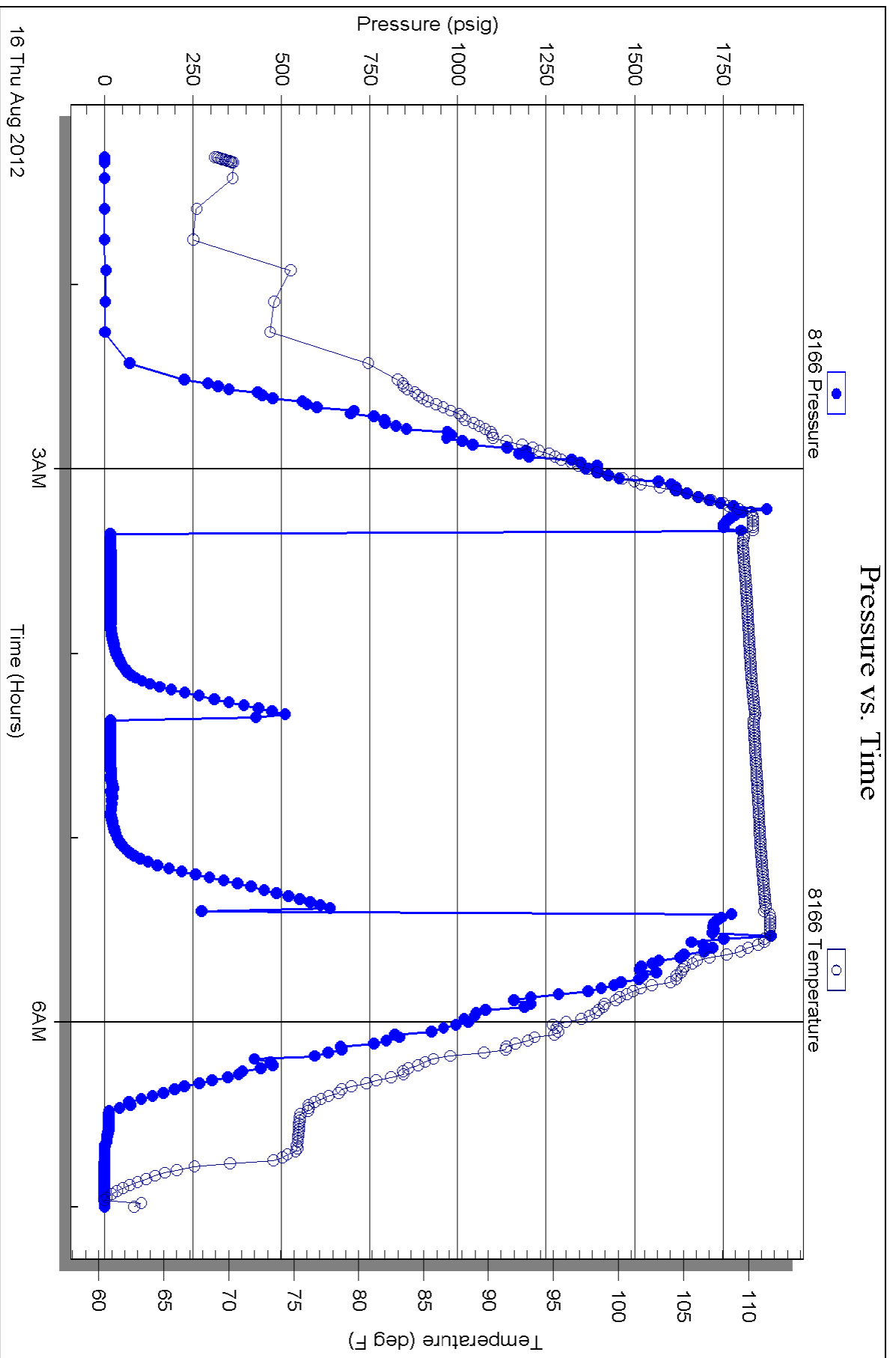
Serial #: 6753

Below (Strat) Spect Oil & Gas

Hall A-2

DST Test Number: 2







TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

487 0492

Test Ticket

NO. 47093

Well Name & No. Hall A-2 Test No. 1 Date 8/15/12
 Company Prospect Oil & Gas Elevation 2087 KB 2082 GL
 Address PO BOX 837 Russell KS 67665
 Co. Rep / Geo. Randy K Rig Shields
 Location: Sec. 9 Twp. 11g Rge. 19w Co. Ellis State KS

Interval Tested 3510 - 3618 Zone Tested Cong. sd
 Anchor Length 108 Drill Pipe Run 3058 Mud Wt. 9.2
 Top Packer Depth 3505, 3510 Drill Collars Run — Vis 56
 Bottom Packer Depth 3618 Wt. Pipe Run 437 WL 7.8
 Total Depth 3696 Chlorides 2,800 ppm System LCM 3

Blow Description IF - 1/4 in blow
FSI - No blow
FF - No blow
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>vs ocm</u>		<u>2</u>		<u>98</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 30 BHT 108 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1,791 Test 1150 T-On Location ~~8:08:30~~
 (B) First Initial Flow 21 Jars T-Started ~~8:09:00~~
 (C) First Final Flow 26 Safety Joint 75 T-Open 21:00
 (D) Initial Shut-In 1,072 Circ Sub T-Pulled 23:05
 (E) Second Initial Flow 29 Hourly Standby T-Out 00:50
 (F) Second Final Flow 40 Mileage ~~59.7~~ 91.45 Comments _____
 (G) Final Shut-In 217 Sampler _____
 (H) Final Hydrostatic 1,209 Straddle 600 Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1916.45
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1916.45

Approved By _____ Our Representative Bruce D. ...

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

Test Ticket

NO. 47094

Well Name & No. Hall #A-2 Test No. 2 Date 8/16/12
 Company Prospect Oil & Gas Elevation 2087 KB 2082 GL
 Address PO Box 837 Russell KS 67665
 Co. Rep / Geo. Randy K Rig Shields
 Location: Sec. 9 Twp. 11s Rge. 19w Co. Ellis State KS

Interval Tested 3620 - 3636 Zone Tested Arb
 Anchor Length 16 Drill Pipe Run 3190 Mud Wt. 9.2
 Top Packer Depth 3615, 3620 Drill Collars Run - Vis 56
 Bottom Packer Depth 3636 Wt. Pipe Run 437 WL 7.8
 Total Depth 3686 Chlorides 2,800 ppm System LCM 3

Blow Description IF - Very weak surface blow died in 18min
ISI - No blow
FF - N blow
FSI - N blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>VSOCM</u>		<u>5</u>		<u>95</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 Gravity API RW @ °F Chlorides ppm

(A) Initial Hydrostatic 1,757 Test 1150 T-On Location 18:30
 (B) First Initial Flow 16 Jars T-Started 1:18
 (C) First Final Flow 18 Safety Joint 75 T-Open 3:20
 (D) Initial Shut-In 536 Circ Sub T-Pulled 5:20
 (E) Second Initial Flow 17 Hourly Standby T-Out 7:00
 (F) Second Final Flow 18 Mileage 59.7 91.45 Comments _____
 (G) Final Shut-In 645 Sampler _____
 (H) Final Hydrostatic 1,735 Straddle 600 Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1916.45
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1916.45

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

Approved By _____ Our Representative Burt D...

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.