



## DRILL STEM TEST REPORT

Prepared For: **Prospect Oil & Gas Corp.**

PO Box 837  
Russell KS 67665

ATTN: Bob Hopkins

### **Stranger Valley #1**

#### **25-12s-15w Russell,KS**

Start Date: 2013.12.14 @ 00:45:00

End Date: 2013.12.14 @ 08:17:45

Job Ticket #: 55486                      DST #: 1

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

Printed: 2013.12.17 @ 11:55:28



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Prospect Oil & Gas Corp.

**25-12s-15w Russell,KS**

PO Box 837  
Russell KS 67665

**Stranger Valley #1**

Job Ticket: 55486

**DST#: 1**

ATTN: Bob Hopkins

Test Start: 2013.12.14 @ 00:45:00

## GENERAL INFORMATION:

Formation: **KC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:41:30

Time Test Ended: 08:17:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Brett Dickinson

Unit No: 59

**Interval: 2941.00 ft (KB) To 2980.00 ft (KB) (TVD)**

Reference Elevations: 1790.00 ft (KB)

Total Depth: 2980.00 ft (KB) (TVD)

1784.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

**Serial #: 8319 Outside**

Press@RunDepth: 162.40 psig @ 2944.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.14

End Date:

2013.12.14

Last Calib.: 2013.12.14

Start Time: 00:45:05

End Time:

08:17:44

Time On Btm: 2013.12.14 @ 03:40:45

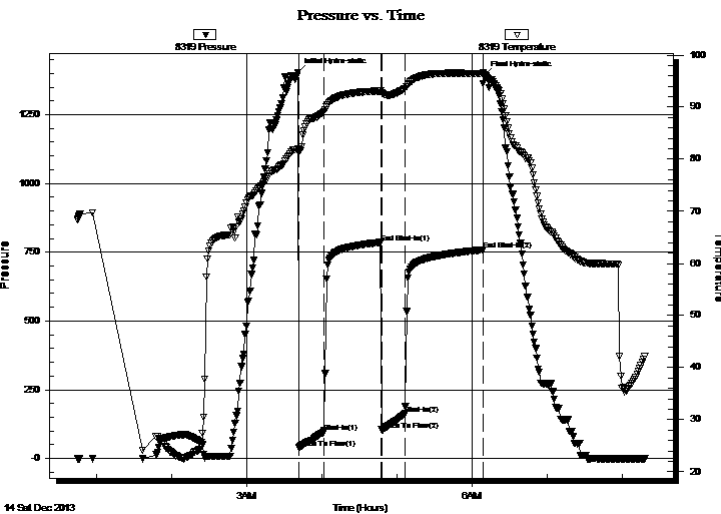
Time Off Btm: 2013.12.14 @ 06:09:45

TEST COMMENT: IF-BOB in 1 1/2 min

ISI-5 1/2" blow

FF-BOB in 1 min

FSI-BOB in 4 min GTS in 15 min



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1403.76	82.03	Initial Hydro-static
1	38.35	81.41	Open To Flow (1)
21	96.65	89.15	Shut-In(1)
67	785.80	93.07	End Shut-In(1)
68	103.17	92.68	Open To Flow (2)
86	162.40	93.61	Shut-In(2)
148	758.49	96.39	End Shut-In(2)
149	1390.74	96.20	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	V SOMCW 2%O 30%M 68%W	0.42
60.00	GWMCO 10%G 10%W 30%M 50%O	0.84
190.00	GMCO 15%G 25%M 60%O	2.67
90.00	GO 30%G 70%O	1.26
0.00	GTS	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Prospect Oil & Gas Corp.  
PO Box 837  
Russell KS 67665  
ATTN: Bob Hopkins

**25-12s-15w Russell,KS**  
**Stranger Valley #1**  
Job Ticket: 55486 **DST#: 1**  
Test Start: 2013.12.14 @ 00:45:00

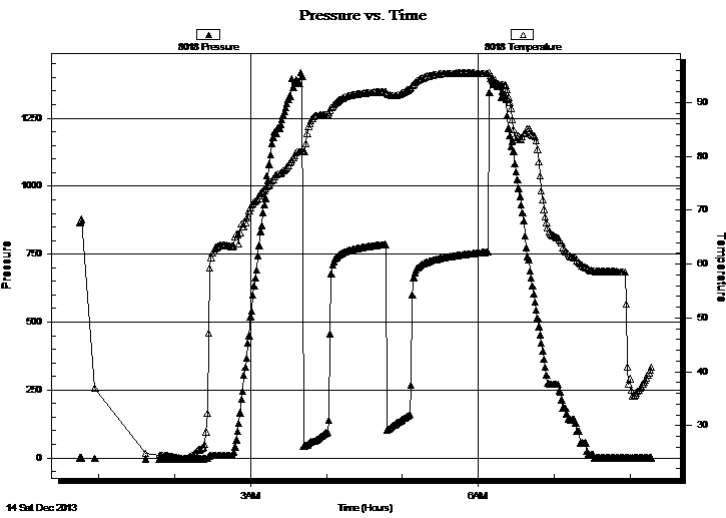
## GENERAL INFORMATION:

Formation: **KC "A"**  
Deviated: No Whipstock:                          ft (KB)  
Time Tool Opened: 03:41:30  
Time Test Ended: 08:17:45  
**Interval: 2941.00 ft (KB) To 2980.00 ft (KB) (TVD)**  
Total Depth: 2980.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Brett Dickinson  
Unit No: 59  
Reference Elevations: 1790.00 ft (KB)  
1784.00 ft (CF)  
KB to GR/CF: 6.00 ft

## Serial #: 8018 Inside

Press@RunDepth:                          psig @ 2944.00 ft (KB)                          Capacity: 8000.00 psig  
Start Date: 2013.12.14                          End Date: 2013.12.14                          Last Calib.: 2013.12.14  
Start Time: 00:45:05                          End Time: 08:17:29                          Time On Btm:  
Time Off Btm:

TEST COMMENT: IF-BOB in 1 1/2 min  
IS-5 1/2" blow  
FF-BOB in 1 min  
FS-BOB in 4 min GTS in 15 min



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	V SOMCW 2%O 30%M 68%W	0.42
60.00	GW MCO 10%G 10%W 30%M 50%O	0.84
190.00	GMCO 15%G 25%M 60%O	2.67
90.00	GO 30%G 70%O	1.26
0.00	GTS	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Prospect Oil & Gas Corp.

**25-12s-15w Russell,KS**

PO Box 837  
Russell KS 67665

**Stranger Valley #1**

Job Ticket: 55486

**DST#: 1**

ATTN: Bob Hopkins

Test Start: 2013.12.14 @ 00:45:00

## Tool Information

Drill Pipe:	Length: 2940.00 ft	Diameter: 3.80 inches	Volume: 41.24 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: 46000.00 lb
			<u>Total Volume: 41.24 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	2941.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 ft			
Tool Length:	60.00 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			2921.00	
Shut In Tool	5.00			2926.00	
Hydraulic tool	5.00			2931.00	
Packer	5.00			2936.00	21.00 Bottom Of Top Packer
Packer	5.00			2941.00	
Stubb	1.00			2942.00	
Perforations	2.00			2944.00	
Recorder	0.00	8018	Inside	2944.00	
Recorder	0.00	8319	Outside	2944.00	
Change Over Sub	1.00			2945.00	
Drill Pipe	31.00			2976.00	
Change Over Sub	1.00			2977.00	
Bullnose	3.00			2980.00	39.00 Bottom Packers & Anchor

**Total Tool Length: 60.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Prospect Oil & Gas Corp.

**25-12s-15w Russell,KS**

PO Box 837  
Russell KS 67665

**Stranger Valley #1**

Job Ticket: 55486

**DST#: 1**

ATTN: Bob Hopkins

Test Start: 2013.12.14 @ 00:45:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

74000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
30.00	VSOMCW 2%O 30%M 68%W	0.421
60.00	GWMC0 10%G 10%W 30%M 50%O	0.842
190.00	GMCO 15%G 25%M 60%O	2.665
90.00	GO 30%G 70%O	1.262
0.00	GTS	0.000

Total Length: 370.00 ft

Total Volume: 5.190 bbl

Num Fluid Samples: 0

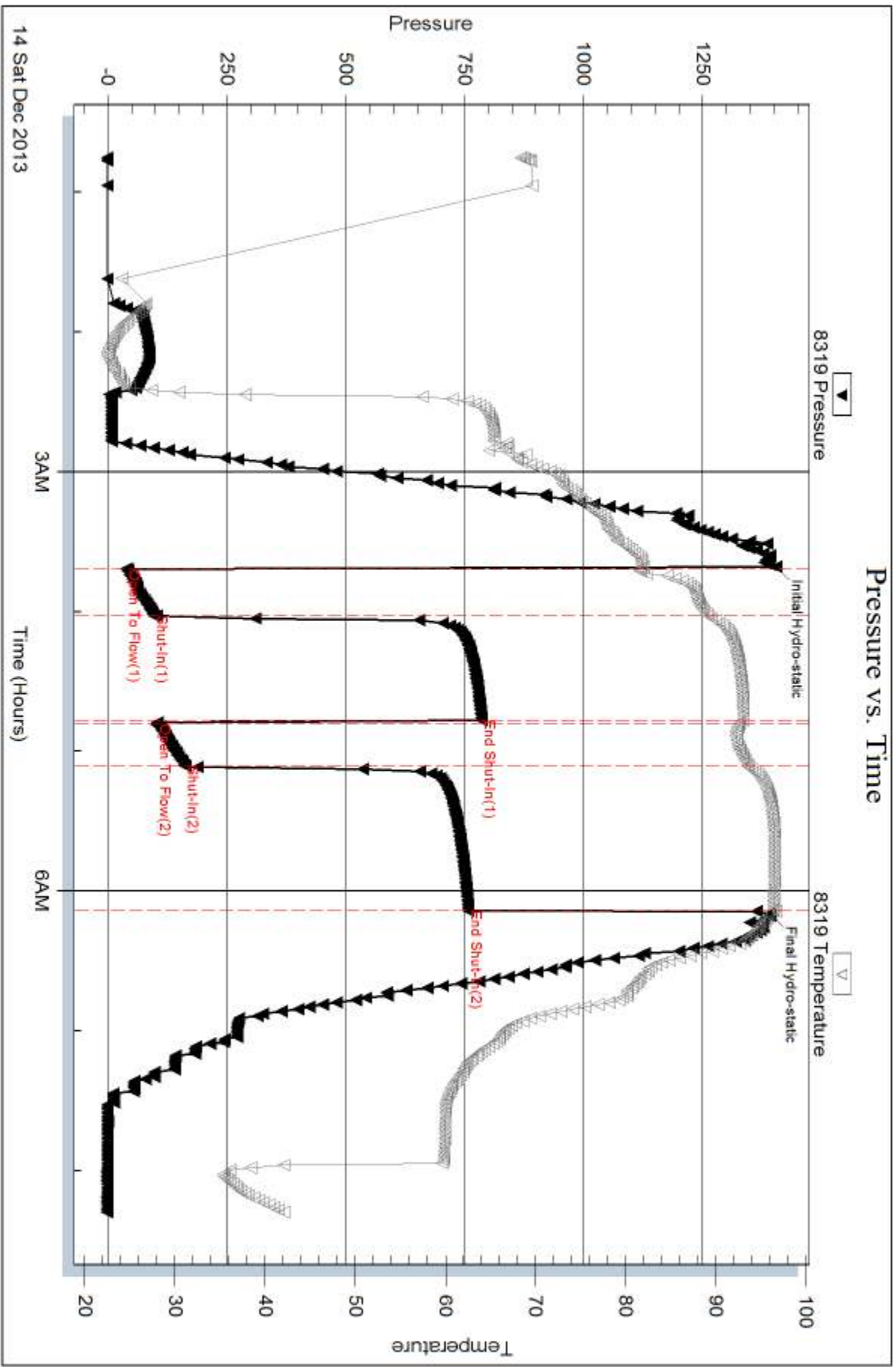
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



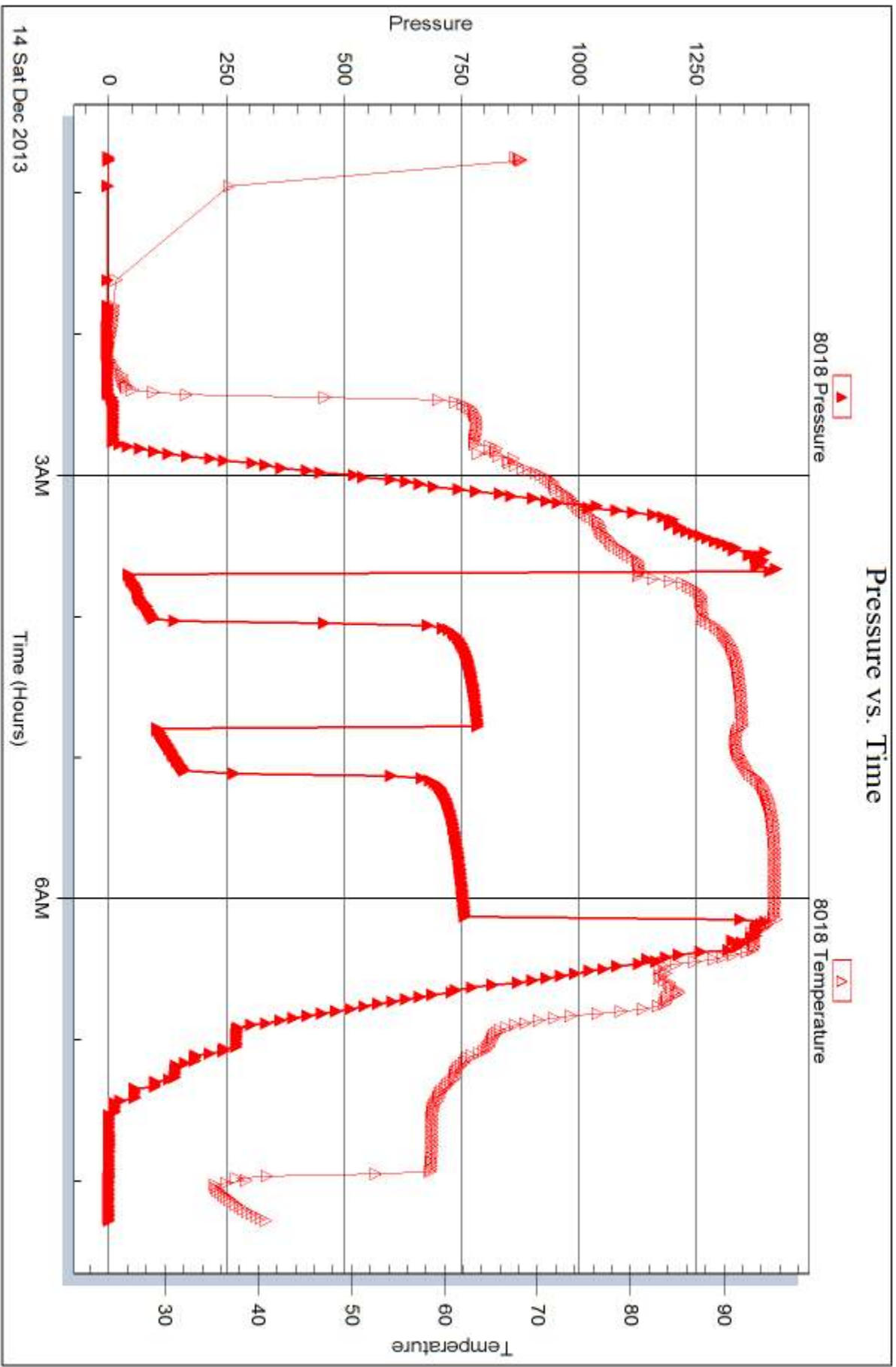
Serial #: 8018

Inside

Prospect Oil & Gas Corp.

Stranger Valley #1

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Prospect Oil & Gas Corp.**

PO Box 837  
Russell KS 67665

ATTN: Bob Hopkins

### **Stranger Valley #1**

#### **25-12s-15w Russell,KS**

Start Date: 2013.12.14 @ 13:55:47

End Date: 2013.12.14 @ 20:47:17

Job Ticket #: 55438                      DST #: 2

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

Printed: 2013.12.17 @ 11:54:48





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Prospect Oil & Gas Corp.

**25-12s-15w Russell,KS**

PO Box 837  
Russell KS 67665

**Stranger Valley #1**

Job Ticket: 55438

**DST#: 2**

ATTN: Bob Hopkins

Test Start: 2013.12.14 @ 13:55:47

## GENERAL INFORMATION:

Formation: **LKC 'B-C'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:15:47

Time Test Ended: 20:47:17

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan L

Unit No: 59

**Interval: 2983.00 ft (KB) To 3020.00 ft (KB) (TVD)**

Reference Elevations: 1790.00 ft (KB)

Total Depth: 3020.00 ft (KB) (TVD)

1784.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

**Serial #: 8319 Outside**

Press@RunDepth: 272.92 psig @ 2985.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.14

End Date:

2013.12.14

Last Calib.: 2013.12.14

Start Time: 13:55:52

End Time:

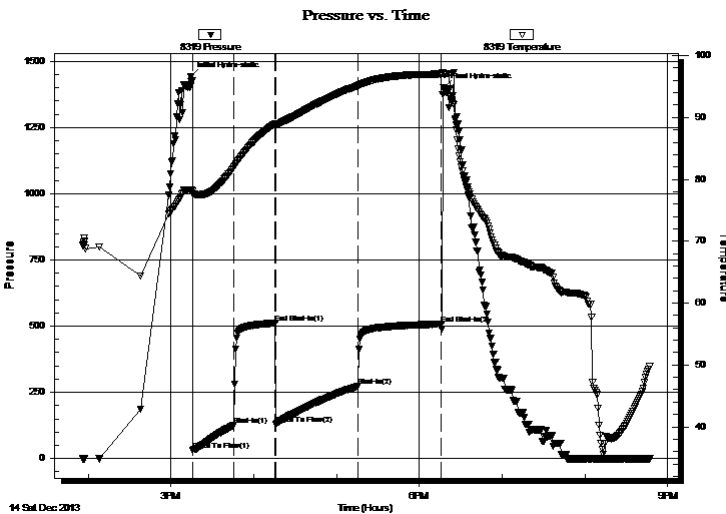
20:47:16

Time On Btm: 2013.12.14 @ 15:14:02

Time Off Btm: 2013.12.14 @ 18:17:32

**TEST COMMENT:** 30- IF- BOB 1 1/2 mins  
30- IS- Built to 4"  
60- FF- BOB 2 1/2 mins  
60- FS- BOB 17 mins

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1440.98	78.37	Initial Hydro-static
2	29.94	77.70	Open To Flow (1)
32	126.02	81.92	Shut-In(1)
62	511.50	88.97	End Shut-In(1)
62	130.53	88.87	Open To Flow (2)
122	272.92	95.13	Shut-In(2)
182	507.50	97.00	End Shut-In(2)
184	1399.37	97.02	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
95.00	GWOCM, 45%M 30%O 15%W 10%G	1.33
190.00	GWO, 60%O 20%W 20%G	2.67
370.00	GMOW, 80%W 10%O 5%G 5%M	5.19
0.00	1150 GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Prospect Oil & Gas Corp.

**25-12s-15w Russell, KS**

PO Box 837  
Russell KS 67665

**Stranger Valley #1**

ATTN: Bob Hopkins

Job Ticket: 55438

**DST#: 2**

Test Start: 2013.12.14 @ 13:55:47

## GENERAL INFORMATION:

Formation: **LKC 'B-C'**

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)

Time Tool Opened: 15:15:47 Tester: Brannan L

Time Test Ended: 20:47:17 Unit No: 59

**Interval: 2983.00 ft (KB) To 3020.00 ft (KB) (TVD)** Reference Elevations: 1790.00 ft (KB)

Total Depth: 3020.00 ft (KB) (TVD) 1784.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 6.00 ft

**Serial #: 8018 Inside**

Press@RunDepth: psig @ 2985.00 ft (KB) Capacity: 8000.00 psig

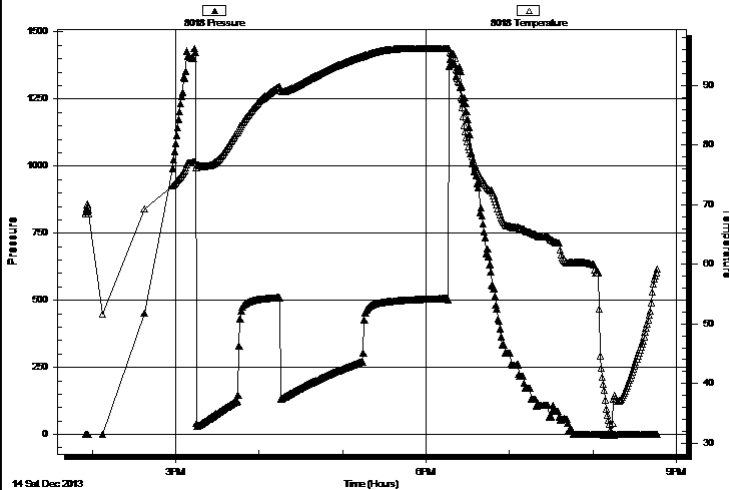
Start Date: 2013.12.14 End Date: 2013.12.14 Last Calib.: 2013.12.14

Start Time: 13:55:26 End Time: 20:46:50 Time On Btm:

Time Off Btm:

**TEST COMMENT:** 30- IF- BOB 1 1/2 mins  
30- IS- Built to 4"  
60- FF- BOB 2 1/2 mins  
60- FS- BOB 17 mins

Pressure vs. Time



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
95.00	GWOCM, 45%M 30%O 15%W 10%G	1.33
190.00	GWO, 60%O 20%W 20%G	2.67
370.00	GMOW, 80%W 10%O 5%G 5%M	5.19
0.00	1150 GIP	0.00

\* 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 Corp.

**25-12s-15w Russell,KS**

PO Box 837  
Russell KS 67665

**Stranger Valley #1**

Job Ticket: 55438

**DST#: 2**

ATTN: Bob Hopkins

Test Start: 2013.12.14 @ 13:55:47

## Tool Information

Drill Pipe:	Length: 2972.00 ft	Diameter: 3.80 inches	Volume: 41.69 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: 48000.00 lb
			<u>Total Volume: 41.69 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 41000.00 lb
Depth to Top Packer:	2983.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	37.00 ft			
Tool Length:	57.00 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			2964.00	
Shut In Tool	5.00			2969.00	
Hydraulic tool	5.00			2974.00	
Packer	5.00			2979.00	20.00 Bottom Of Top Packer
Packer	4.00			2983.00	
Stubb	1.00			2984.00	
Perforations	1.00			2985.00	
Recorder	0.00	8018	Inside	2985.00	
Recorder	0.00	8319	Outside	2985.00	
Change Over Sub	1.00			2986.00	
Drill Pipe	30.00			3016.00	
Change Over Sub	1.00			3017.00	
Bullnose	3.00			3020.00	37.00 Bottom Packers & Anchor

**Total Tool Length: 57.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Prospect Oil & Gas Corp.

**25-12s-15w Russell,KS**

PO Box 837  
Russell KS 67665

**Stranger Valley #1**

Job Ticket: 55438

**DST#: 2**

ATTN: Bob Hopkins

Test Start: 2013.12.14 @ 13:55:47

## 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:

100000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
95.00	GWOCM, 45%M 30%O 15%W 10%G	1.333
190.00	GWO, 60%O 20%W 20%G	2.665
370.00	GMOW, 80%W 10%O 5%G 5%M	5.190
0.00	1150 GIP	0.000

Total Length: 655.00 ft

Total Volume: 9.188 bbl

Num Fluid Samples: 0

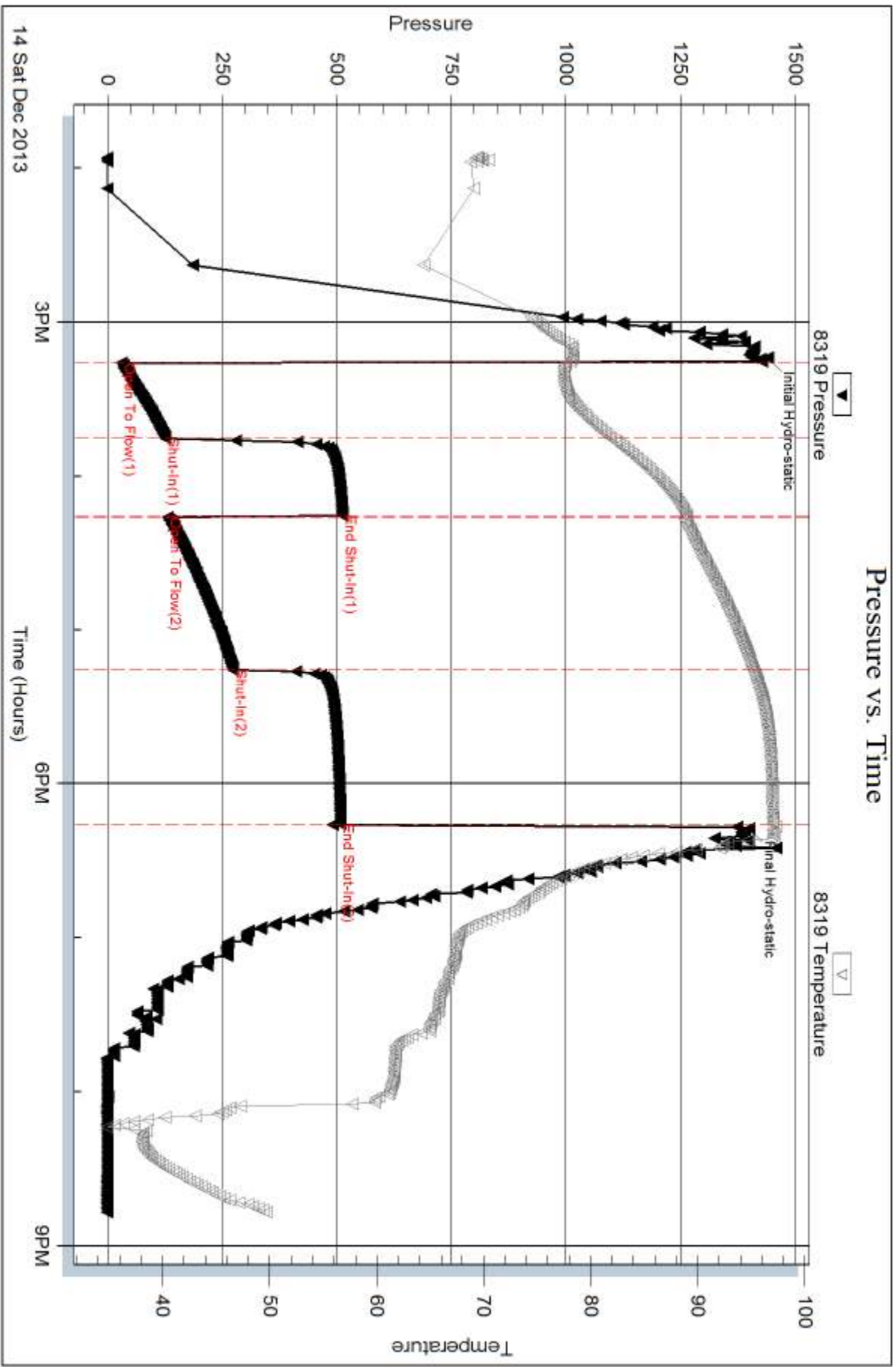
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



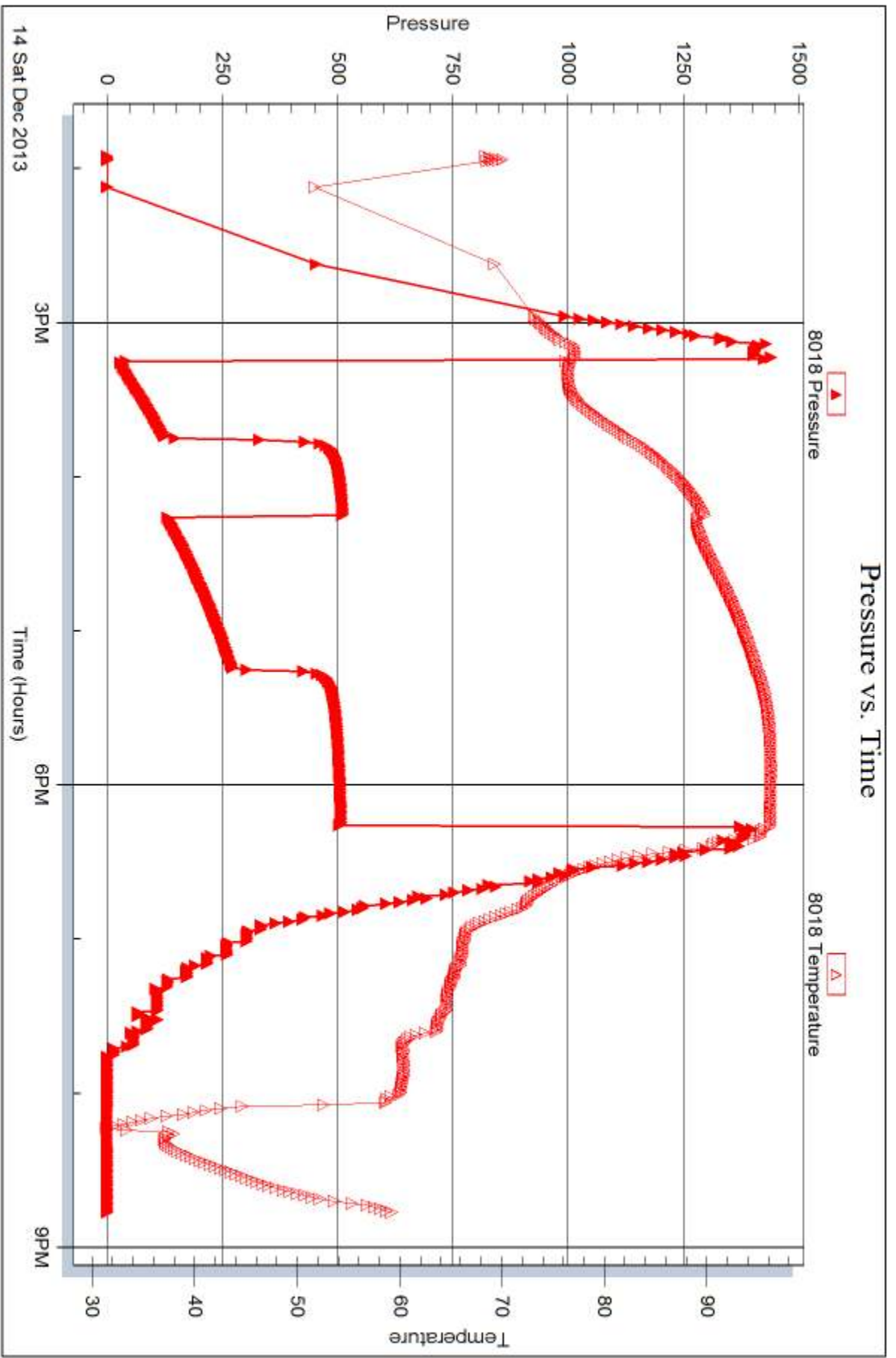
Serial #: 8018

Inside

Prospect Oil & Gas Corp.

Stranger Valley #1

DST Test Number: 2



Tribble Testing, Inc

Ref. No: 55438

Printed: 2013.12.17 @ 11:54:50



## DRILL STEM TEST REPORT

Prepared For: **Prospect Oil & Gas Corp.**

PO Box 837  
Russell KS 67665

ATTN: Bob Hopkins

### **Stranger Valley #1**

#### **25-12s-15w Russell,KS**

Start Date: 2013.12.15 @ 02:35:00

End Date: 2013.12.15 @ 08:42:00

Job Ticket #: 55487                      DST #: 3

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

Printed: 2013.12.17 @ 11:54:08



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Prospect Oil & Gas Corp.

**25-12s-15w Russell,KS**

PO Box 837  
Russell KS 67665

**Stranger Valley #1**

Job Ticket: 55487

**DST#: 3**

ATTN: Bob Hopkins

Test Start: 2013.12.15 @ 02:35:00

## GENERAL INFORMATION:

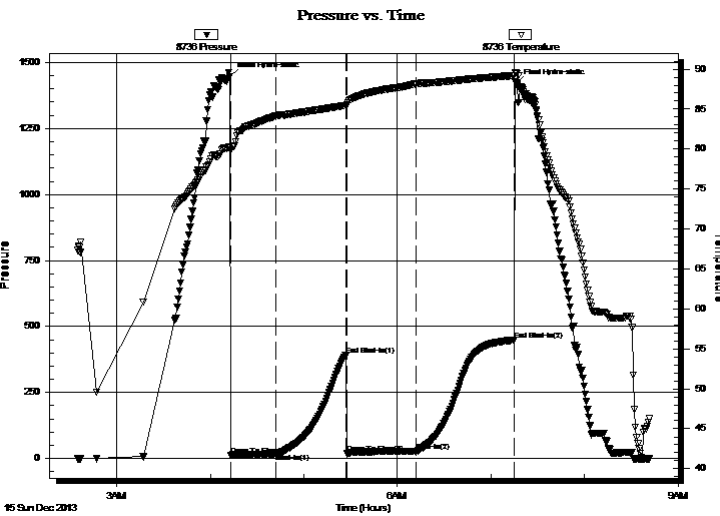
Formation: **KC**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 04:13:15  
 Time Test Ended: 08:42:00  
 Interval: **3022.00 ft (KB) To 3053.00 ft (KB) (TVD)**  
 Total Depth: 3053.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brett Dickinson  
 Unit No: 59  
 Reference Elevations: 1790.00 ft (KB)  
 1784.00 ft (CF)  
 KB to GR/CF: 6.00 ft

## Serial #: 8736

Outside

Press@RunDepth: 28.16 psig @ 3050.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.12.15 End Date: 2013.12.15 Last Calib.: 2013.12.15  
 Start Time: 02:35:05 End Time: 08:41:59 Time On Btm: 2013.12.15 @ 04:12:45  
 Time Off Btm: 2013.12.15 @ 07:16:30

TEST COMMENT: IF-6" blow  
 IS-No blow  
 FF-BOB in 6 min  
 FS-No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1448.33	80.30	Initial Hydro-static
1	12.28	79.84	Open To Flow (1)
30	17.90	84.12	Shut-In(1)
75	392.51	85.45	End Shut-In(1)
75	17.91	85.50	Open To Flow (2)
120	28.16	88.17	Shut-In(2)
182	448.28	89.20	End Shut-In(2)
184	1418.74	89.55	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
45.00	VSGOCM 5%G 25%O 70%M	0.63
0.00	240ft GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Prospect Oil & Gas Corp.

**25-12s-15w Russell, KS**

PO Box 837  
Russell KS 67665

**Stranger Valley #1**

Job Ticket: 55487

**DST#: 3**

ATTN: Bob Hopkins

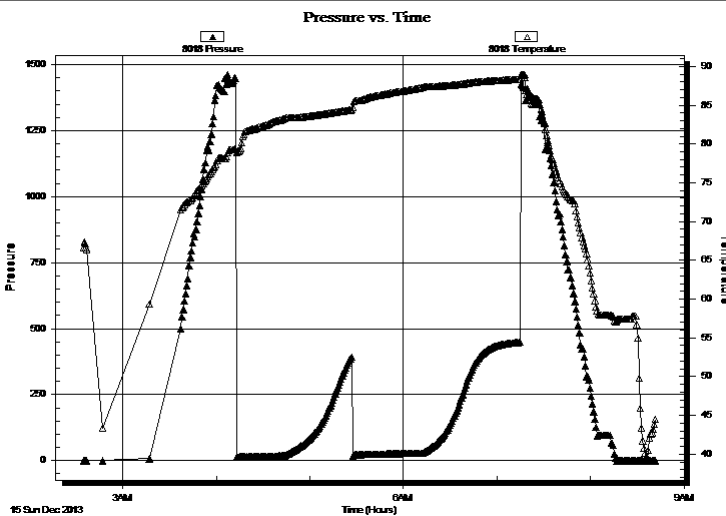
Test Start: 2013.12.15 @ 02:35:00

### GENERAL INFORMATION:

Formation: **KC**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 04:13:15  
 Time Test Ended: 08:42:00  
 Interval: **3022.00 ft (KB) To 3053.00 ft (KB) (TVD)**  
 Total Depth: 3053.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brett Dickinson  
 Unit No: 59  
 Reference Elevations: 1790.00 ft (KB)  
 1784.00 ft (CF)  
 KB to GR/CF: 6.00 ft

**Serial #: 8018 Inside**  
 Press@RunDepth: psig @ 3050.00 ft (KB)  
 Start Date: 2013.12.15 End Date: 2013.12.15  
 Start Time: 02:35:05 End Time: 08:41:59  
 Capacity: 8000.00 psig  
 Last Calib.: 2013.12.15  
 Time On Btm:  
 Time Off Btm:

TEST COMMENT: IF-6" blow  
 IS-No blow  
 FF-BOB in 6 min  
 FS-No blow



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
45.00	VSGOCM 5%G 25%O 70%M	0.63
0.00	240ft GIP	0.00

### Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Prospect Oil & Gas Corp.

**25-12s-15w Russell,KS**

PO Box 837  
Russell KS 67665

**Stranger Valley #1**

Job Ticket: 55487

**DST#: 3**

ATTN: Bob Hopkins

Test Start: 2013.12.15 @ 02:35:00

## Tool Information

Drill Pipe:	Length: 3005.00 ft	Diameter: 3.80 inches	Volume: 42.15 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: 45000.00 lb
			<u>Total Volume: 42.15 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3022.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	31.00 ft			
Tool Length:	52.00 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			3002.00	
Shut In Tool	5.00			3007.00	
Hydraulic tool	5.00			3012.00	
Packer	5.00			3017.00	21.00 Bottom Of Top Packer
Packer	5.00			3022.00	
Stubb	1.00			3023.00	
Perforations	27.00			3050.00	
Recorder	0.00	8018	Inside	3050.00	
Recorder	0.00	8736	Outside	3050.00	
Bullnose	3.00			3053.00	31.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>52.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Prospect Oil & Gas Corp.

**25-12s-15w Russell,KS**

PO Box 837  
Russell KS 67665

**Stranger Valley #1**

Job Ticket: 55487

**DST#: 3**

ATTN: Bob Hopkins

Test Start: 2013.12.15 @ 02:35:00

## 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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	VSGOCM 5%G 25%O 70%M	0.631
0.00	240ft GIP	0.000

Total Length: 45.00 ft      Total Volume: 0.631 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

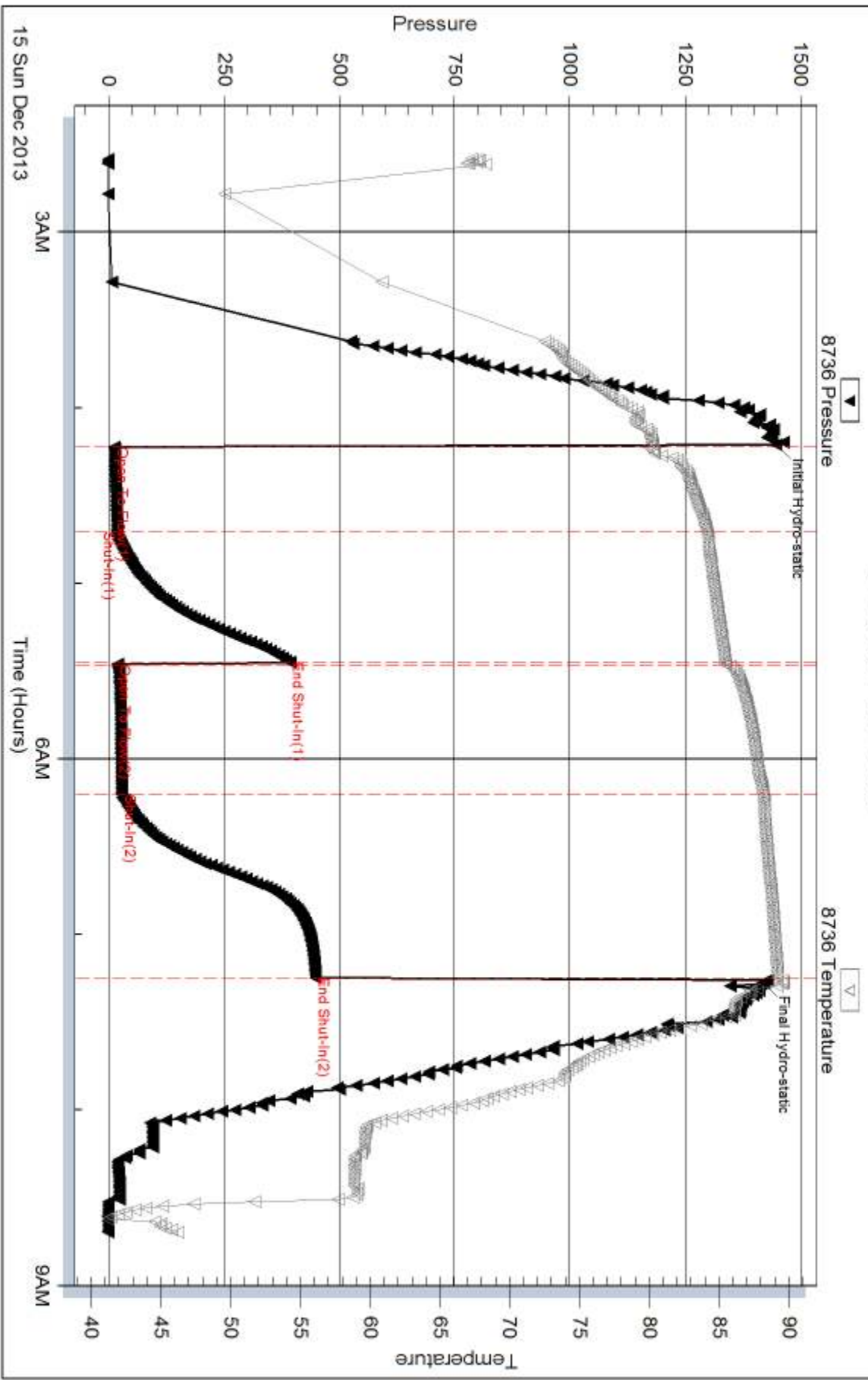
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time



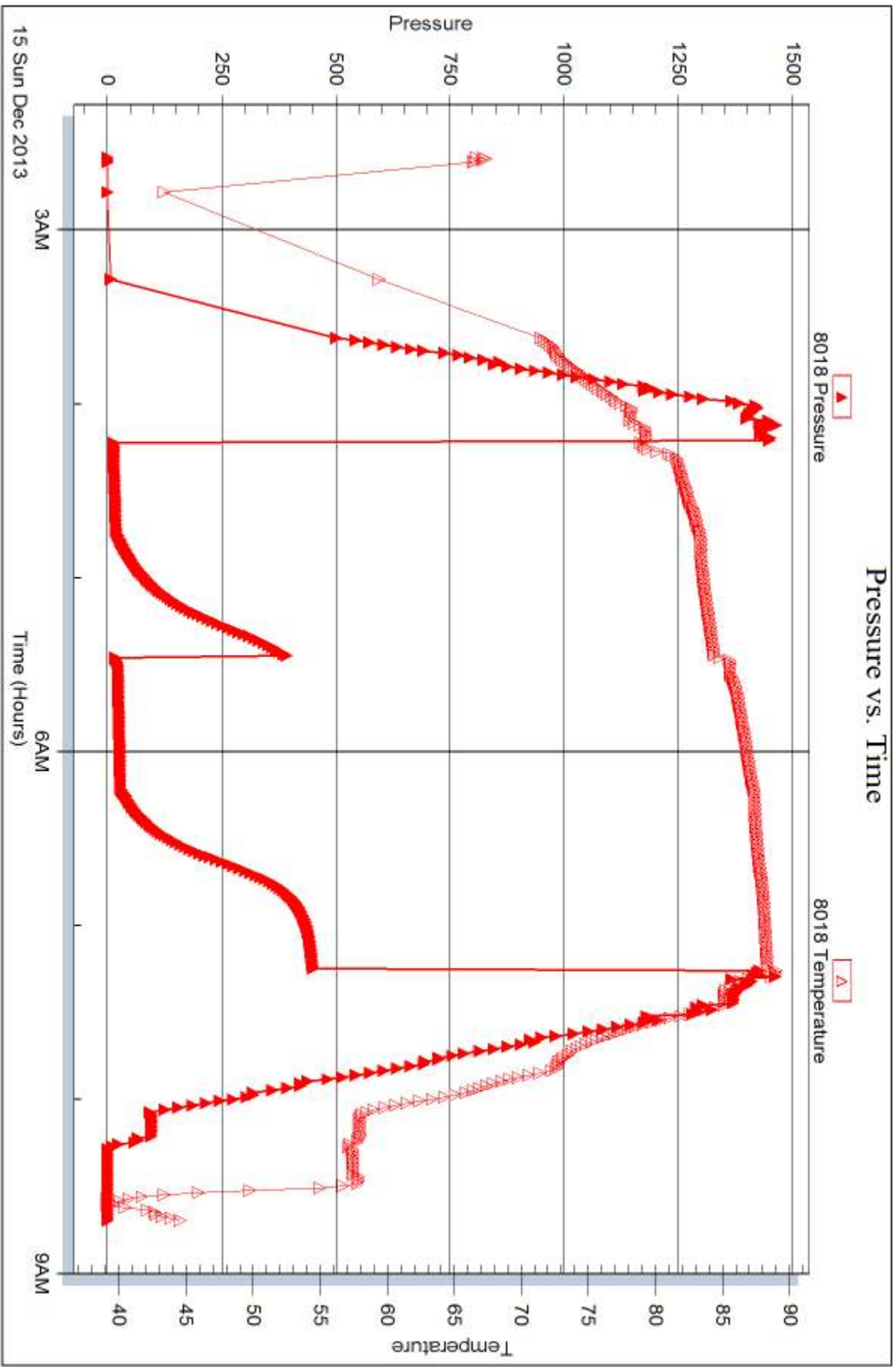
Serial #: 8018

Inside

Prospect Oil & Gas Corp.

Stranger Valley #1

DST Test Number: 3





## DRILL STEM TEST REPORT

Prepared For: **Prospect Oil & Gas Corp.**

PO Box 837  
Russell KS 67665

ATTN: Bob Hopkins

### **Stranger Valley #1**

#### **25-12s-15w Russell,KS**

Start Date: 2013.12.15 @ 18:05:00

End Date: 2013.12.16 @ 00:20:00

Job Ticket #: 55488                      DST #: 4

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

Printed: 2013.12.17 @ 11:53:26



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Prospect Oil & Gas Corp.

**25-12s-15w Russell, KS**

PO Box 837  
Russell KS 67665

**Stranger Valley #1**

Job Ticket: 55488

**DST#: 4**

ATTN: Bob Hopkins

Test Start: 2013.12.15 @ 18:05:00

## GENERAL INFORMATION:

Formation: **KC"I-J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:25:45

Time Test Ended: 00:20:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

**Interval: 3116.00 ft (KB) To 3160.00 ft (KB) (TVD)**

Reference Elevations: 1790.00 ft (KB)

Total Depth: 3160.00 ft (KB) (TVD)

1784.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

**Serial #: 8736 Outside**

Press@RunDepth: 213.40 psig @ 3124.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.15

End Date:

2013.12.16

Last Calib.: 2013.12.16

Start Time: 18:05:05

End Time:

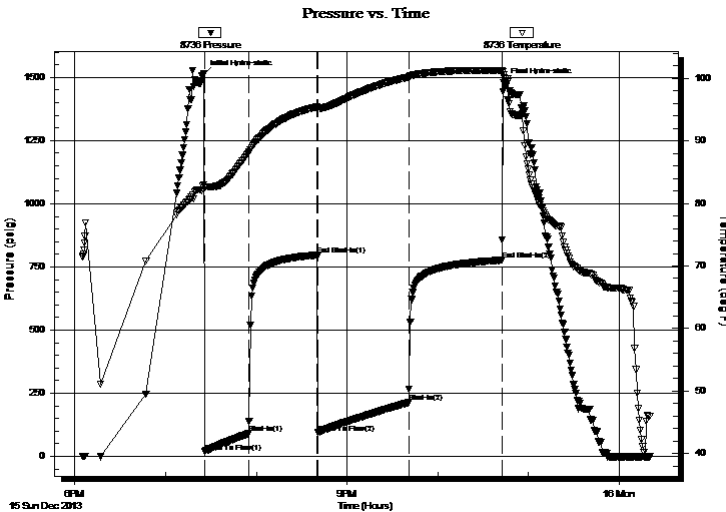
00:19:59

Time On Btm: 2013.12.15 @ 19:25:15

Time Off Btm: 2013.12.15 @ 22:43:30

TEST COMMENT: IF-BOB in 13 min  
IS-No blow  
FF-BOB in 22 min  
FS-No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1513.04	82.97	Initial Hydro-static
1	18.19	82.59	Open To Flow (1)
30	91.14	88.11	Shut-In(1)
75	796.89	95.42	End Shut-In(1)
76	93.84	95.19	Open To Flow (2)
136	213.40	100.16	Shut-In(2)
197	776.87	101.21	End Shut-In(2)
199	1480.95	100.59	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
385.00	water	5.40

## Gas Rates

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

\* Recovery from multiple tests



# DRILL STEM TEST REPORT

Prospect Oil & Gas Corp.

25-12s-15w Russell,KS

PO Box 837  
Russell KS 67665

**Stranger Valley #1**

Job Ticket: 55488 **DST#: 4**

ATTN: Bob Hopkins

Test Start: 2013.12.15 @ 18:05:00

## GENERAL INFORMATION:

Formation: **KC"i-j"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:25:45

Time Test Ended: 00:20:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

**Interval: 3116.00 ft (KB) To 3160.00 ft (KB) (TVD)**

Total Depth: 3160.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1790.00 ft (KB)

1784.00 ft (CF)

KB to GR/CF: 6.00 ft

**Serial #: 8018 Inside**

Press@RunDepth: psig @ 3124.00 ft (KB)

Start Date: 2013.12.15

End Date: 2013.12.16

Capacity: 8000.00 psig

Last Calib.: 2013.12.16

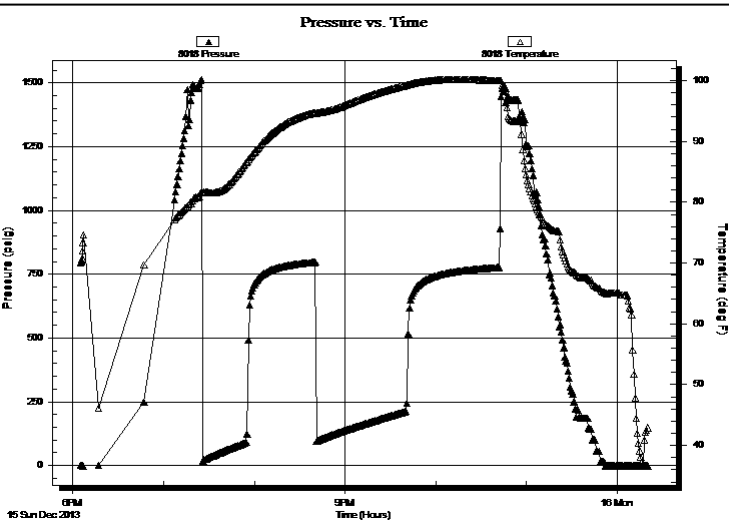
Start Time: 18:05:05

End Time: 00:19:59

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-BOB in 13 min  
IS-No blow  
FF-BOB in 22 min  
FS-No blow



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
385.00	water	5.40

\* 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 Corp.

**25-12s-15w Russell,KS**

PO Box 837  
Russell KS 67665

**Stranger Valley #1**

Job Ticket: 55488

**DST#: 4**

ATTN: Bob Hopkins

Test Start: 2013.12.15 @ 18:05:00

## Tool Information

Drill Pipe:	Length: 3107.00 ft	Diameter: 3.80 inches	Volume: 43.58 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: 47000.00 lb
			<u>Total Volume: 43.58 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3116.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	65.00 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			3096.00	
Shut In Tool	5.00			3101.00	
Hydraulic tool	5.00			3106.00	
Packer	5.00			3111.00	21.00 Bottom Of Top Packer
Packer	5.00			3116.00	
Stubb	1.00			3117.00	
Perforations	7.00			3124.00	
Recorder	0.00	8018	Inside	3124.00	
Recorder	0.00	8736	Outside	3124.00	
Change Over Sub	1.00			3125.00	
Drill Pipe	31.00			3156.00	
Change Over Sub	1.00			3157.00	
Bullnose	3.00			3160.00	44.00 Bottom Packers & Anchor

**Total Tool Length: 65.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Prospect Oil & Gas Corp.

**25-12s-15w Russell, KS**

PO Box 837  
Russell KS 67665

**Stranger Valley #1**

Job Ticket: 55488

**DST#: 4**

ATTN: Bob Hopkins

Test Start: 2013.12.15 @ 18:05:00

## 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:

40000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.97 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
385.00	water	5.401

Total Length: 385.00 ft      Total Volume: 5.401 bbl

Num Fluid Samples: 0

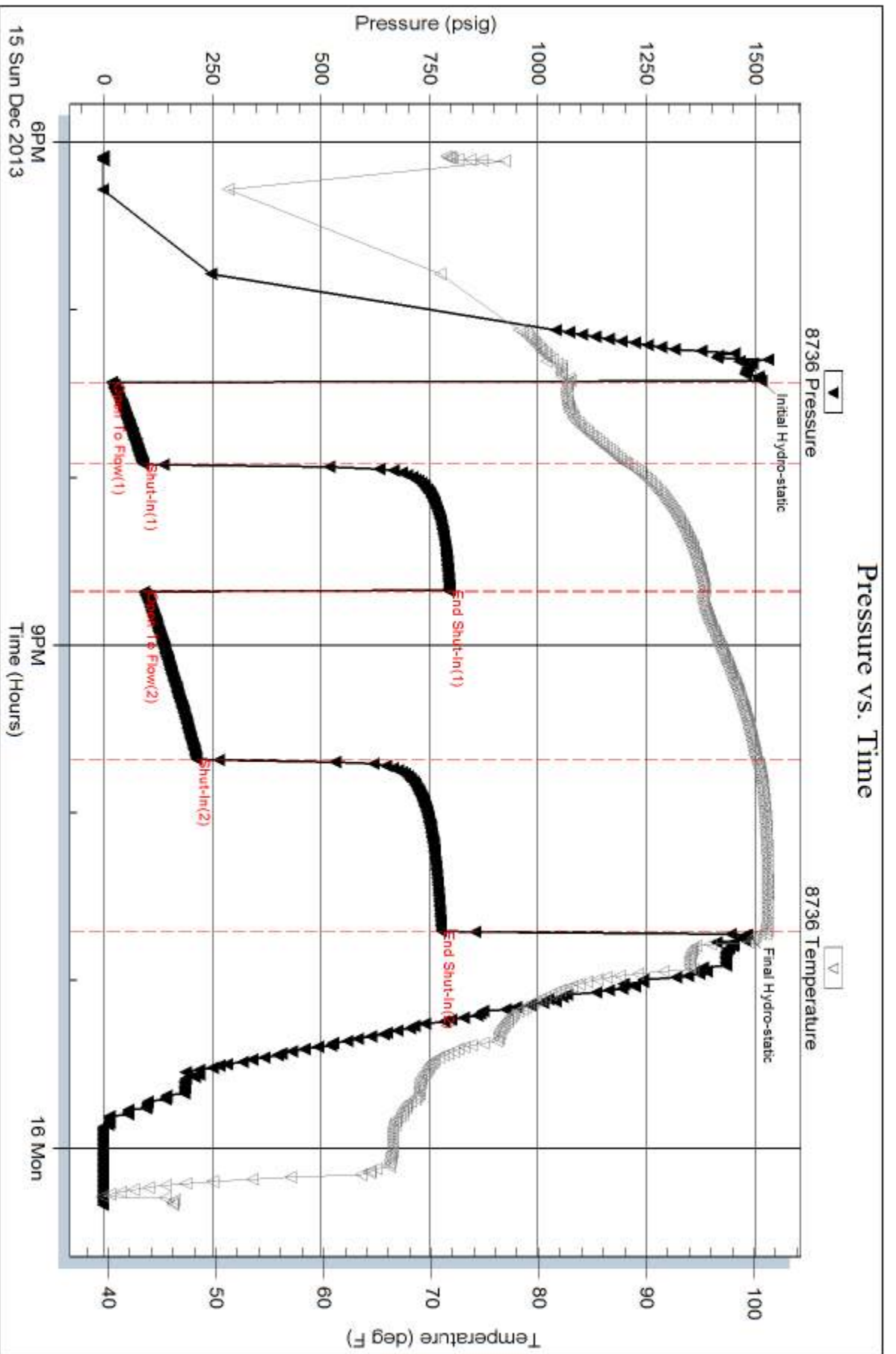
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



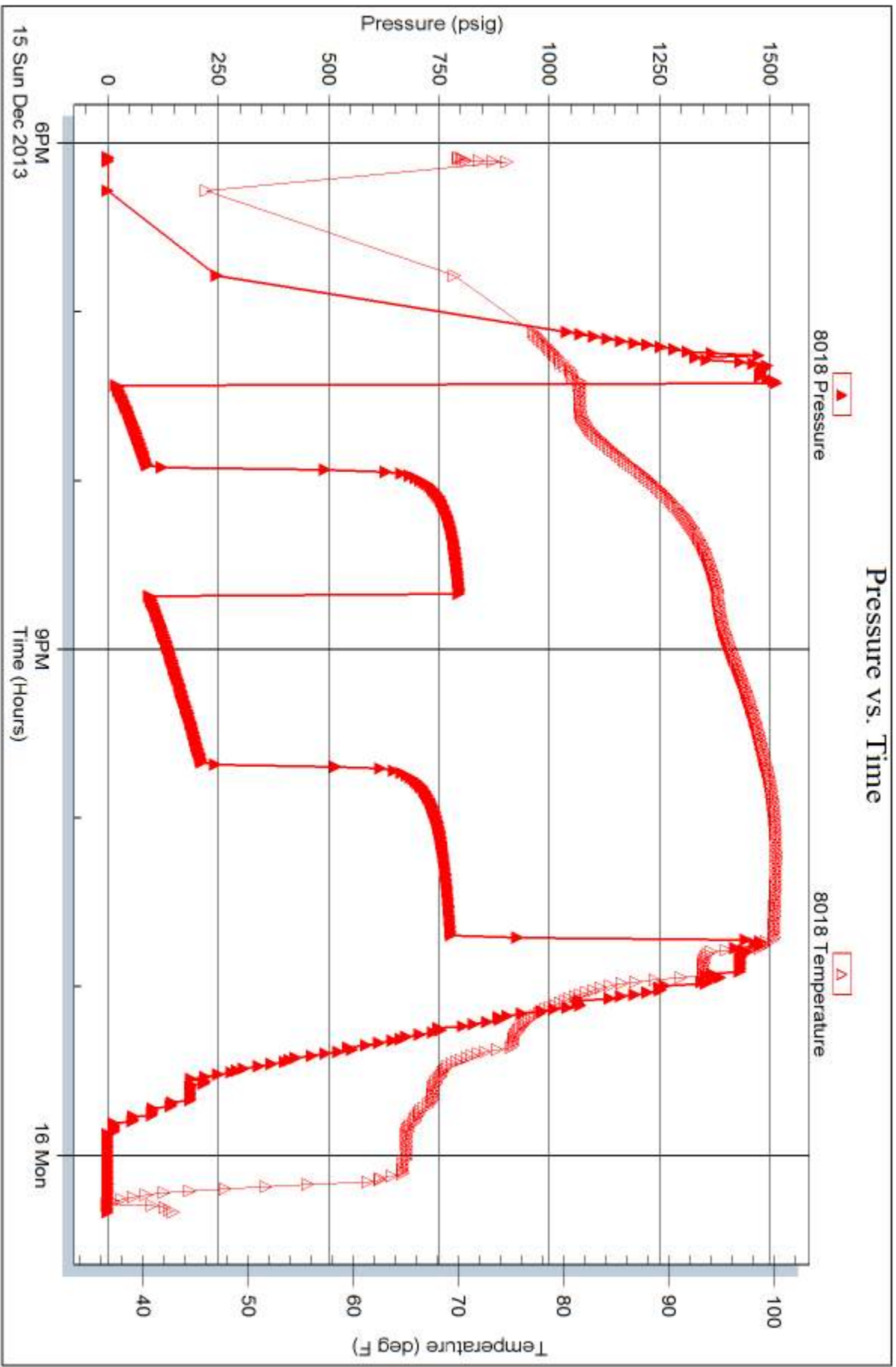
Serial #: 8018

Inside

Prospect Oil & Gas Corp.

Stranger Valley #1

DST Test Number: 4





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 55486

Well Name & No. Stranger Valley #1 Test No. 1 Date 12/14/13  
 Company Prospect Oil & Gas Corp Elevation 1790 KB 1784 GL  
 Address PO Box 837 Russell KS 67665  
 Co. Rep / Geo. \_\_\_\_\_ Rig Royal #2  
 Location: Sec. 25 Twp. 12 Rge. 15 Co. Russell State KS

Interval Tested 2941-2980 Zone Tested KC' A'  
 Anchor Length 39 Drill Pipe Run \_\_\_\_\_ Mud Wt. 8.7  
 Top Packer Depth 2936 Drill Collars Run \_\_\_\_\_ Vis 60  
 Bottom Packer Depth 2941 Wt. Pipe Run \_\_\_\_\_ WL 6.0  
 Total Depth 2980 Chlorides 1,500 ppm System LCM 2#

Blow Description IF-BOB in 1 1/2 min  
1st - 5 1/2 in blow  
FF-BOB in 1 min  
FST-BOB in 4 min GTS in 15 min

Rec	Feet of	%gas	%oil	%water	%mud
30	VSONCW	2	68	30	
60	GWMCO	10	50	10	30
190	GMCO	15	60		25
90	60	30	20		
	GTS				

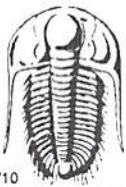
Rec Total 370 BHT 96 Gravity \_\_\_\_\_ API RW .18 @ 40 °F Chlorides 74,000 ppm

(A) Initial Hydrostatic 1,404  Test 1150 T-On Location 00:05  
 (B) First Initial Flow 38  Jars \_\_\_\_\_ T-Started 00:45  
 (C) First Final Flow 97  Safety Joint \_\_\_\_\_ T-Open 3:38  
 (D) Initial Shut-In 786  Circ Sub \_\_\_\_\_ T-Pulled 6:03  
 (E) Second Initial Flow 103  Hourly Standby \_\_\_\_\_ T-Out 9:15  
 (F) Second Final Flow 162  Mileage 76.1 110.05 Comments \_\_\_\_\_  
 (G) Final Shut-In 758  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1,391  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_

Initial Open 20  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Shut-In 45  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Flow 20  Day Standby \_\_\_\_\_ Total 1260.05  
 Final Shut-In 60  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1260.05

Approved By \_\_\_\_\_ Our Representative [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 55438

4/10

Well Name & No. Stranger Valley #1 Test No. 2 Date 12/14/13  
 Company Prospect Oil + Gas Corp. Elevation 1790 KB 1784 GL  
 Address PO Box 837 Russell, KS 67665  
 Co. Rep / Geo. Bob Hopkins Rig Royal #2  
 Location: Sec. 25 Twp. 12 Rge. 15 Co. Russell State KS

Interval Tested 2983-3020 Zone Tested LKC 'B+C'  
 Anchor Length 37' Drill Pipe Run 2972 Mud Wt. 9.0  
 Top Packer Depth 2978 Drill Collars Run          Vis 50  
 Bottom Packer Depth 2983 Wt. Pipe Run          WL 5.8  
 Total Depth 3020 Chlorides 6500 ppm System LCM 2#

Blow Description IF-BOB 1 1/2 mins  
ISI-Built to 4"  
FF-BOB 2 1/2 mins  
FSI-BOB 17 mins

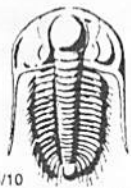
Rec	Feet of	%gas	%oil	%water	%mud
<u>95</u>	<u>GWOCM</u>	<u>10</u>	<u>30</u>	<u>15</u>	<u>45</u>
<u>190</u>	<u>GWO</u>	<u>20</u>	<u>60</u>	<u>20</u>	<u>        </u>
<u>370</u>	<u>GMOW</u>	<u>5</u>	<u>10</u>	<u>80</u>	<u>5</u>
<u>        </u>	<u>150 GTP</u>	<u>        </u>	<u>        </u>	<u>        </u>	<u>        </u>
<u>        </u>	<u>        </u>	<u>        </u>	<u>        </u>	<u>        </u>	<u>        </u>

Rec Total 655 BHT 97° Gravity          API RW .17 @ 31 °F Chlorides 100,000 ppm  
 Test 1150 T-On Location 1350  
 Jars          T-Started 1355  
 Safety Joint          T-Open 1515  
 Circ Sub          T-Pulled 1815  
 Hourly Standby          T-Out 2047  
 Mileage 71 RT 110.05 Comments           
 Sampler           
 Straddle           Ruined Shale Packer           
 Shale Packer           Ruined Packer           
 Extra Packer           Extra Copies           
 Extra Recorder          Sub Total 0  
 Day Standby          Total 1260.05  
 Accessibility          MP/DST Disc't         

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

Sub Total 1260.05  
 Approved By          Our Representative Brannon L

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.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 55487

Well Name & No. Stranger Valley #1 Test No. 3 Date 12/13/13  
 Company Prospect Oil & Gas Corp Elevation 1790 KB 1784 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. \_\_\_\_\_ Rig Royal #2  
 Location: Sec. 25 Twp. 12 Rge. 15 Co. Russell State KS

Interval Tested 3022 - 3053 Zone Tested KC  
 Anchor Length 31 Drill Pipe Run \_\_\_\_\_ Mud Wt. 8.7  
 Top Packer Depth 3017 Drill Collars Run \_\_\_\_\_ Vis 60  
 Bottom Packer Depth 3022 Wt. Pipe Run \_\_\_\_\_ WL 6.0  
 Total Depth 3053 Chlorides 1,500 ppm System LCM 2<sup>FF</sup>

Blow Description FF - 6 in blow  
ISL - No blow  
FF - BOB in 6 min  
FSL - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>45</u>	<u>4560CM</u>	<u>5</u>	<u>25</u>	<u>70</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of <u>240ft GIP</u>	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

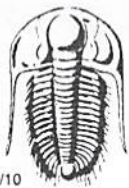
Rec Total 45 BHT 89 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1,448  Test 1150 T-On Location 2:00  
 (B) First Initial Flow 12  Jars T-Started 2:33  
 (C) First Final Flow 18  Safety Joint T-Open 4:12  
 (D) Initial Shut-In 393  Circ Sub T-Pulled 7:12  
 (E) Second Initial Flow 18  Hourly Standby T-Out 8:40  
 (F) Second Final Flow 28  Mileage 71.7 110.05 Comments \_\_\_\_\_  
 (G) Final Shut-In 448  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1,419  Straddle \_\_\_\_\_  
 Ruined Shale Packer  
 Ruined Packer  
 Extra Copies

Initial Open 30  
 Initial Shut-In 45  
 Final Flow 45  
 Final Shut-In 60  
 Extra Packer  
 Extra Recorder  
 Day Standby  
 Accessibility  
 Sub Total 1260.05 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Brian D... [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.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 55488

Well Name & No. Stranger Valley #1 Test No. 4 Date 12/15/13  
 Company Prospect oil & Gas Corp Elevation 1790 KB 1784 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. \_\_\_\_\_ Rig Royal #2  
 Location: Sec. 25 Twp. 12 Rge. 15 Co. Russell State KS

Interval Tested 3116-3160 Zone Tested KC "I, J"  
 Anchor Length 44 Drill Pipe Run \_\_\_\_\_ Mud Wt. 8.7  
 Top Packer Depth 3111 Drill Collars Run - Vis 60  
 Bottom Packer Depth 3116 Wt. Pipe Run - WL 6.0  
 Total Depth 3160 Chlorides 1,500 ppm System LCM 2.77  
 Blow Description IF - BOB in 13 min  
FSI - No blow  
FF - BOB in 22 min  
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>385</u>	<u>water</u>				
_____	_____				
_____	_____				
_____	_____				
_____	_____				

Rec Total 385 BHT 101 Gravity \_\_\_\_\_ API RW .22 @ 60 °F Chlorides 4000 ppm  
 (A) Initial Hydrostatic 1,513  Test 1150 T-On Location 17:55  
 (B) First Initial Flow 18  Jars \_\_\_\_\_ T-Started 18:05  
 (C) First Final Flow 91  Safety Joint \_\_\_\_\_ T-Open 19:25  
 (D) Initial Shut-In 797  Circ Sub \_\_\_\_\_ T-Pulled 22:40  
 (E) Second Initial Flow 94  Hourly Standby \_\_\_\_\_ T-Out 00:15  
 (F) Second Final Flow 213  Mileage 71.5 220.10 Comments loaded tools  
 (G) Final Shut-In 777  Sampler \_\_\_\_\_ 12/16 20:30  
 (H) Final Hydrostatic 1,481  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 46  Day Standby \_\_\_\_\_ Total 1370.10  
 Final Flow 60  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 60 Sub Total 1370.10

Approved By \_\_\_\_\_ Our Representative But...

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.