



## DRILL STEM TEST REPORT

Prepared For: **Brungardt Oil & Leasing Inc**

213 W 7th St Box 871  
Russell KS 67665-1731

ATTN: Brad Hutchison

### **Stranger Valley A #1**

#### **26 12s 15w Russell,KS**

Start Date: 2014.10.26 @ 07:07:00

End Date: 2014.10.26 @ 13:07:00

Job Ticket #: 60607                      DST #: 1

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.10.30 @ 13:14:51



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Brungardt Oil & Leasing Inc

**26 12s 15w Russell, KS**

213 W 7th St Box 871  
Russell KS 67665-1731

**Stranger Valley A #1**

ATTN: Brad Hutchison

Job Ticket: 60607

**DST#: 1**

Test Start: 2014.10.26 @ 07:07:00

## GENERAL INFORMATION:

Formation: **LKC " A - C "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:53:30

Time Test Ended: 13:07:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jim Svaty

Unit No: 76

**Interval: 2965.00 ft (KB) To 3040.00 ft (KB) (TVD)**

Reference Elevations: 1808.00 ft (KB)

Total Depth: 3040.00 ft (KB) (TVD)

1803.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8289**

**Inside**

Press@RunDepth: 119.98 psig @ 2973.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.10.26

End Date:

2014.10.26

Last Calib.: 2014.10.26

Start Time: 07:07:02

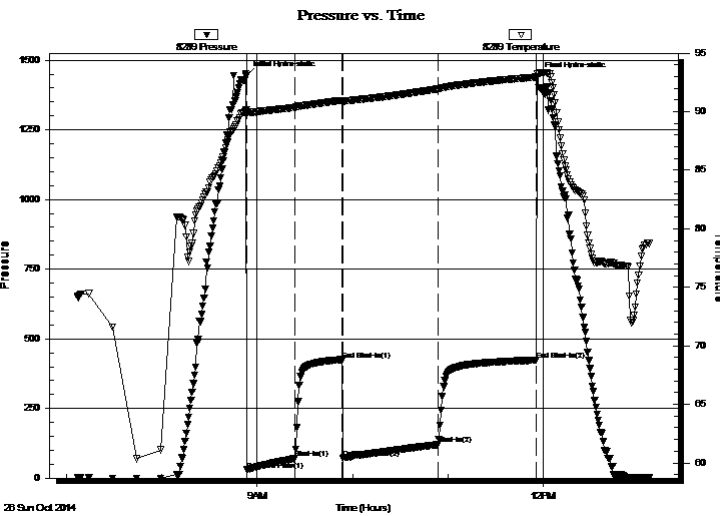
End Time:

13:07:15

Time On Btm: 2014.10.26 @ 08:53:00

Time Off Btm: 2014.10.26 @ 11:56:30

**TEST COMMENT:** 30-IFP- Surface Blow Building to 6"  
30-ISIP- No Blow  
60-FFP- Surface Blow Building to 7 1/2"  
60-FSIP- No Blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1442.87	90.15	Initial Hydro-static
1	29.52	89.89	Open To Flow (1)
31	72.08	90.36	Shut-In(1)
61	425.40	90.96	End Shut-In(1)
61	72.19	90.86	Open To Flow (2)
121	119.98	91.94	Shut-In(2)
183	423.09	92.95	End Shut-In(2)
184	1439.84	93.23	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
125.00	MCW 25% m 75% w	0.92
85.00	Mud 100% Show of Oil	0.62

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Brungardt Oil & Leasing Inc

26 12s 15w Russell, KS

213 W 7th St Box 871  
Russell KS 67665-1731

Stranger Valley A #1

ATTN: Brad Hutchison

Job Ticket: 60607

DST#: 1

Test Start: 2014.10.26 @ 07:07:00

## GENERAL INFORMATION:

Formation: **LKC " A - C "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:53:30

Time Test Ended: 13:07:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jim Svaty

Unit No: 76

Interval: **2965.00 ft (KB) To 3040.00 ft (KB) (TVD)**

Total Depth: 3040.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1808.00 ft (KB)

1803.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 6668**

**Outside**

Press@RunDepth: psig @ 2973.00 ft (KB)

Start Date: 2014.10.26

End Date:

2014.10.26

Start Time: 07:07:02

End Time:

13:07:15

Capacity: 8000.00 psig

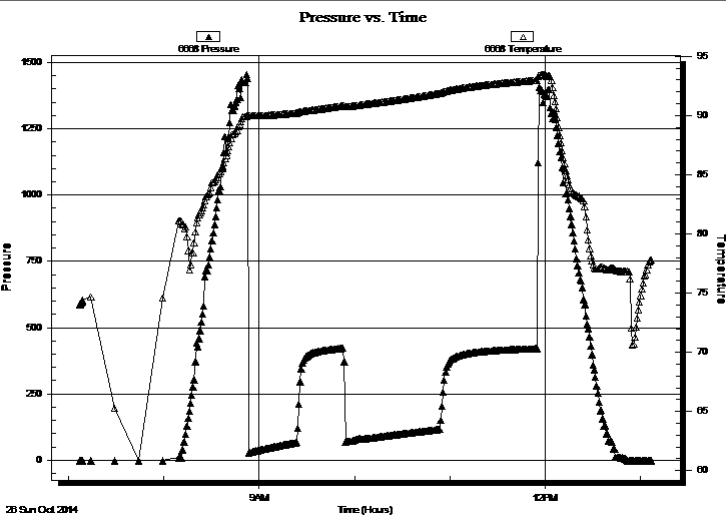
Last Calib.:

2014.10.26

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IFP- Surface Blow Building to 6"  
30-ISIP- No Blow  
60-FFP- Surface Blow Building to 7 1/2"  
60-FSIP- No Blow



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
125.00	MCW 25% m 75% w	0.92
85.00	Mud 100% Show of Oil	0.62

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Brungardt Oil & Leasing Inc

**26 12s 15w Russell, KS**

213 W 7th St Box 871  
Russell KS 67665-1731

**Stranger Valley A #1**

Job Ticket: 60607

**DST#: 1**

ATTN: Brad Hutchison

Test Start: 2014.10.26 @ 07:07:00

## Tool Information

Drill Pipe:	Length: 2517.00 ft	Diameter: 3.80 inches	Volume: 35.31 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 436.00 ft	Diameter: 2.75 inches	Volume: 3.20 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: 38.51 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	2965.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	75.00 ft			
Tool Length:	96.00 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			2945.00	
Shut In Tool	5.00			2950.00	
Hydraulic tool	5.00			2955.00	
Packer	5.00			2960.00	21.00 Bottom Of Top Packer
Packer	5.00			2965.00	
Stubb	1.00			2966.00	
Perforations	6.00			2972.00	
Change Over Sub	1.00			2973.00	
Recorder	0.00	8289	Inside	2973.00	
Recorder	0.00	6668	Outside	2973.00	
Blank Spacing	63.00			3036.00	
Change Over Sub	1.00			3037.00	
Bullnose	3.00			3040.00	75.00 Bottom Packers & Anchor

**Total Tool Length: 96.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Brungardt Oil & Leasing Inc

**26 12s 15w Russell, KS**

213 W 7th St Box 871  
Russell KS 67665-1731

**Stranger Valley A #1**

Job Ticket: 60607

**DST#: 1**

ATTN: Brad Hutchison

Test Start: 2014.10.26 @ 07:07:00

## 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:

22000 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.77 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
125.00	MCW 25% m 75% w	0.918
85.00	Mud 100% Show of Oil	0.624

Total Length: 210.00 ft

Total Volume: 1.542 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .275 @ 78

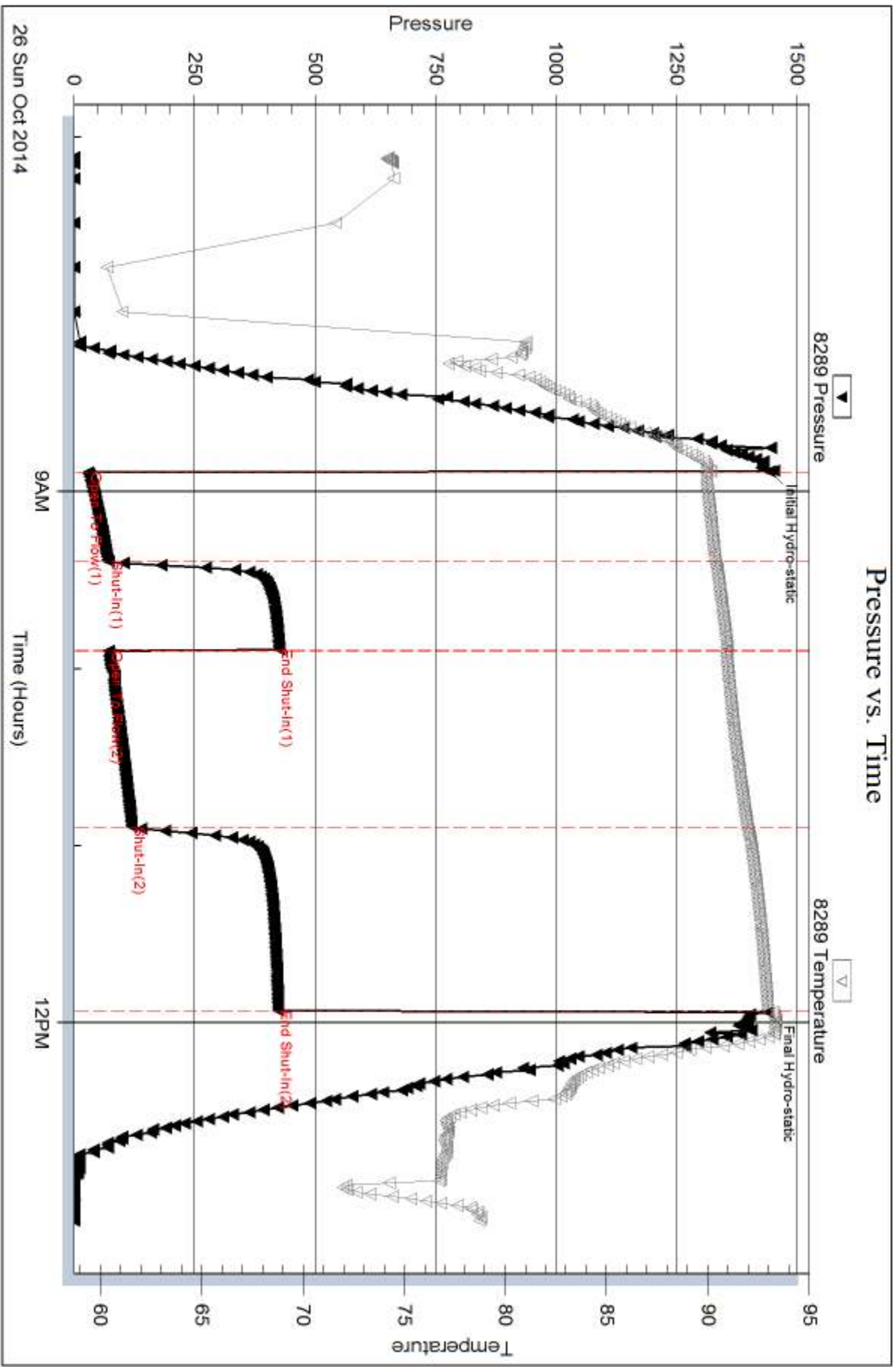
Serial #: 8289

Inside

Brungardt Oil & Leasing Inc

Stranger Valley A #1

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 60607

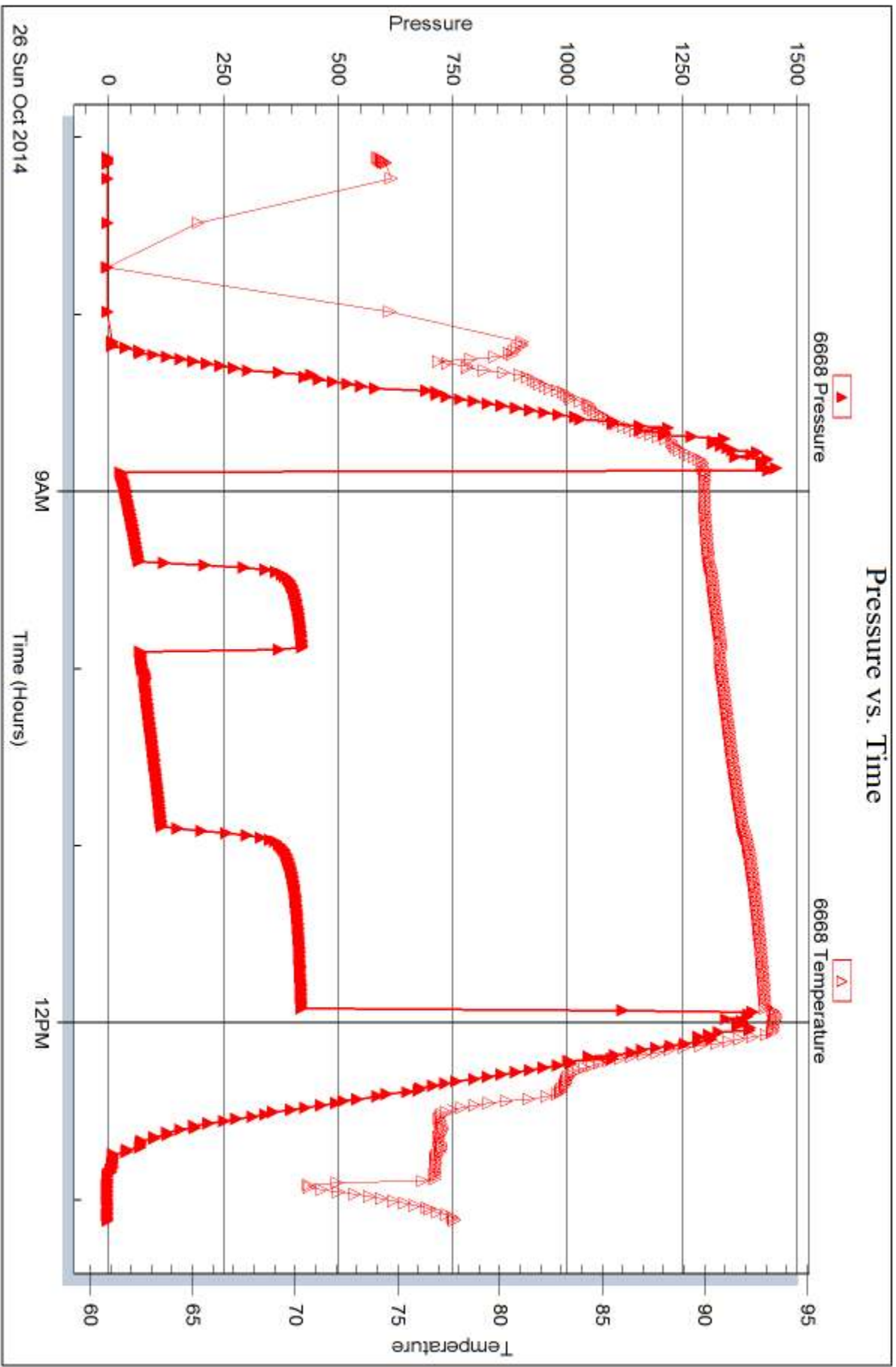
Printed: 2014, 10:30 @ 13:14:52

Serial #: 6668

Outside Brungardt Oil & Leasing Inc

Stranger Valley A #1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 60607

Printed: 2014, 10:30 @ 13:14:52



## DRILL STEM TEST REPORT

Prepared For: **Brungardt Oil & Leasing Inc**

213 W 7th St Box 871  
Russell KS 67665-1731

ATTN: Brad Hutchison

### **Stranger Valley A #1**

#### **26 12s 15w Russell,KS**

Start Date: 2014.10.26 @ 20:10:00

End Date: 2014.10.27 @ 00:19:00

Job Ticket #: 60608                      DST #: 2

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.10.30 @ 13:14:26





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Brungardt Oil & Leasing Inc

**26 12s 15w Russell, KS**

213 W 7th St Box 871  
Russell KS 67665-1731

**Stranger Valley A #1**

Job Ticket: 60608

**DST#: 2**

ATTN: Brad Hutchison

Test Start: 2014.10.26 @ 20:10:00

## GENERAL INFORMATION:

Formation: **LKC " E & F "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:02:15

Time Test Ended: 00:19:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 76

**Interval: 3050.00 ft (KB) To 3080.00 ft (KB) (TVD)**

Reference Elevations: 1808.00 ft (KB)

Total Depth: 3080.00 ft (KB) (TVD)

1803.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8289**

**Inside**

Press@RunDepth: 22.36 psig @ 3057.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.10.26

End Date:

2014.10.27

Last Calib.: 2014.10.27

Start Time: 20:10:02

End Time:

00:19:00

Time On Btm: 2014.10.26 @ 22:02:00

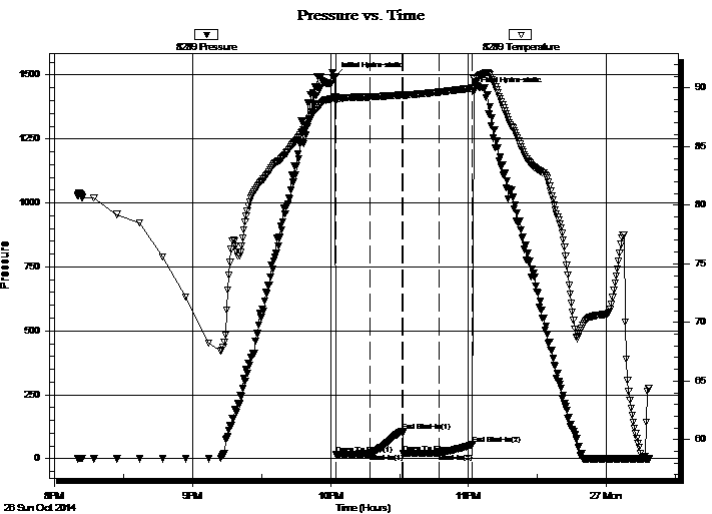
Time Off Btm: 2014.10.26 @ 23:02:15

TEST COMMENT: 15-IFP- 1/4" Weak Blow

15-ISIP- No Blow

15-FFP- No Blow

15-FSIP- No Blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1494.47	89.21	Initial Hydro-static
1	16.23	88.82	Open To Flow (1)
15	20.46	89.24	Shut-In(1)
29	108.37	89.41	End Shut-In(1)
30	20.44	89.38	Open To Flow (2)
45	22.36	89.64	Shut-In(2)
60	55.64	89.99	End Shut-In(2)
61	1437.19	90.82	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100%	0.04

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Brungardt Oil & Leasing Inc

**26 12s 15w Russell, KS**

213 W 7th St Box 871  
Russell KS 67665-1731

**Stranger Valley A #1**

Job Ticket: 60608 **DST#: 2**

ATTN: Brad Hutchison

Test Start: 2014.10.26 @ 20:10:00

## GENERAL INFORMATION:

Formation: **LKC " E & F "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:02:15

Time Test Ended: 00:19:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 76

**Interval: 3050.00 ft (KB) To 3080.00 ft (KB) (TVD)**

Total Depth: 3080.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1808.00 ft (KB)

1803.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 6668 Outside**

Press@RunDepth: psig @ 3057.00 ft (KB)

Start Date: 2014.10.26 End Date: 2014.10.27

Start Time: 20:10:02 End Time: 00:18:45

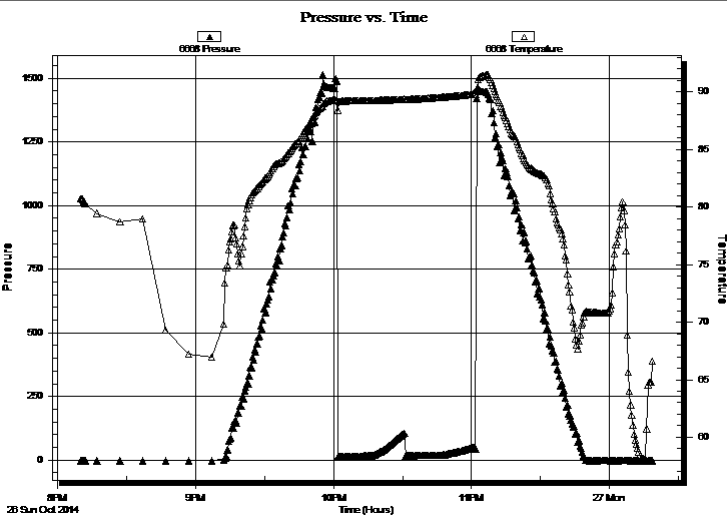
Capacity: 8000.00 psig

Last Calib.: 2014.10.27

Time On Btm:

Time Off Btm:

TEST COMMENT: 15-IFP- 1/4" Weak Blow  
15-ISIP- No Blow  
15-FFP- No Blow  
15-FSIP- No Blow



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100%	0.04

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Brungardt Oil & Leasing Inc

**26 12s 15w Russell, KS**

213 W 7th St Box 871  
Russell KS 67665-1731

**Stranger Valley A #1**

Job Ticket: 60608

**DST#: 2**

ATTN: Brad Hutchison

Test Start: 2014.10.26 @ 20:10:00

## Tool Information

Drill Pipe:	Length: 2613.00 ft	Diameter: 3.80 inches	Volume: 36.65 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 436.00 ft	Diameter: 2.75 inches	Volume: 3.20 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: 39.85 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3050.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	51.00 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			3030.00	
Shut In Tool	5.00			3035.00	
Hydraulic tool	5.00			3040.00	
Packer	5.00			3045.00	21.00 Bottom Of Top Packer
Packer	5.00			3050.00	
Stubb	1.00			3051.00	
Perforations	6.00			3057.00	
Recorder	0.00	8289	Inside	3057.00	
Recorder	0.00	6668	Outside	3057.00	
Perforations	20.00			3077.00	
Bullnose	3.00			3080.00	30.00 Bottom Packers & Anchor

**Total Tool Length: 51.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Brungardt Oil & Leasing Inc

**26 12s 15w Russell, KS**

213 W 7th St Box 871  
Russell KS 67665-1731

**Stranger Valley A #1**

Job Ticket: 60608

**DST#: 2**

ATTN: Brad Hutchison

Test Start: 2014.10.26 @ 20:10:00

### 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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3100.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100%	0.037

Total Length: 5.00 ft      Total Volume: 0.037 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

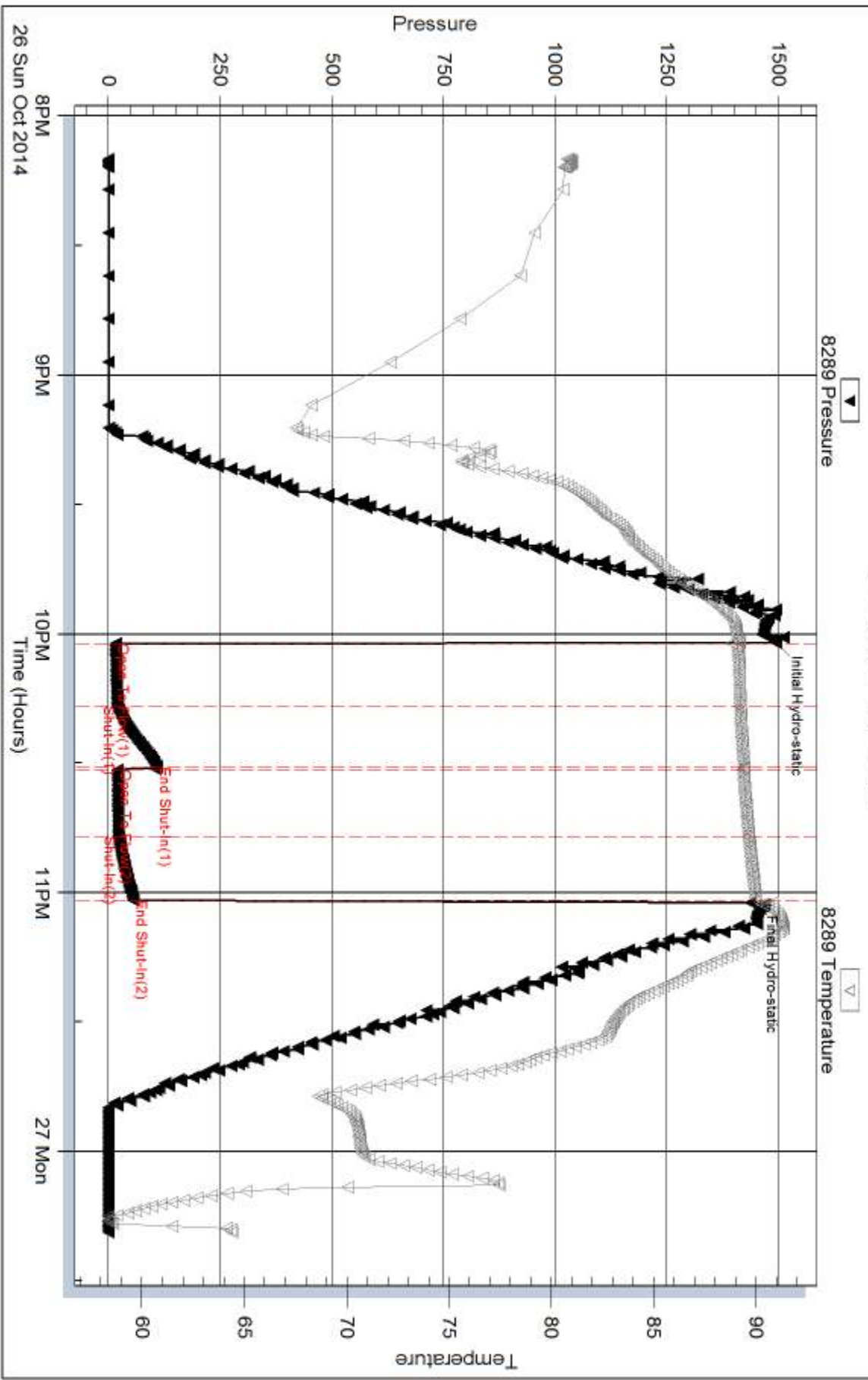
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

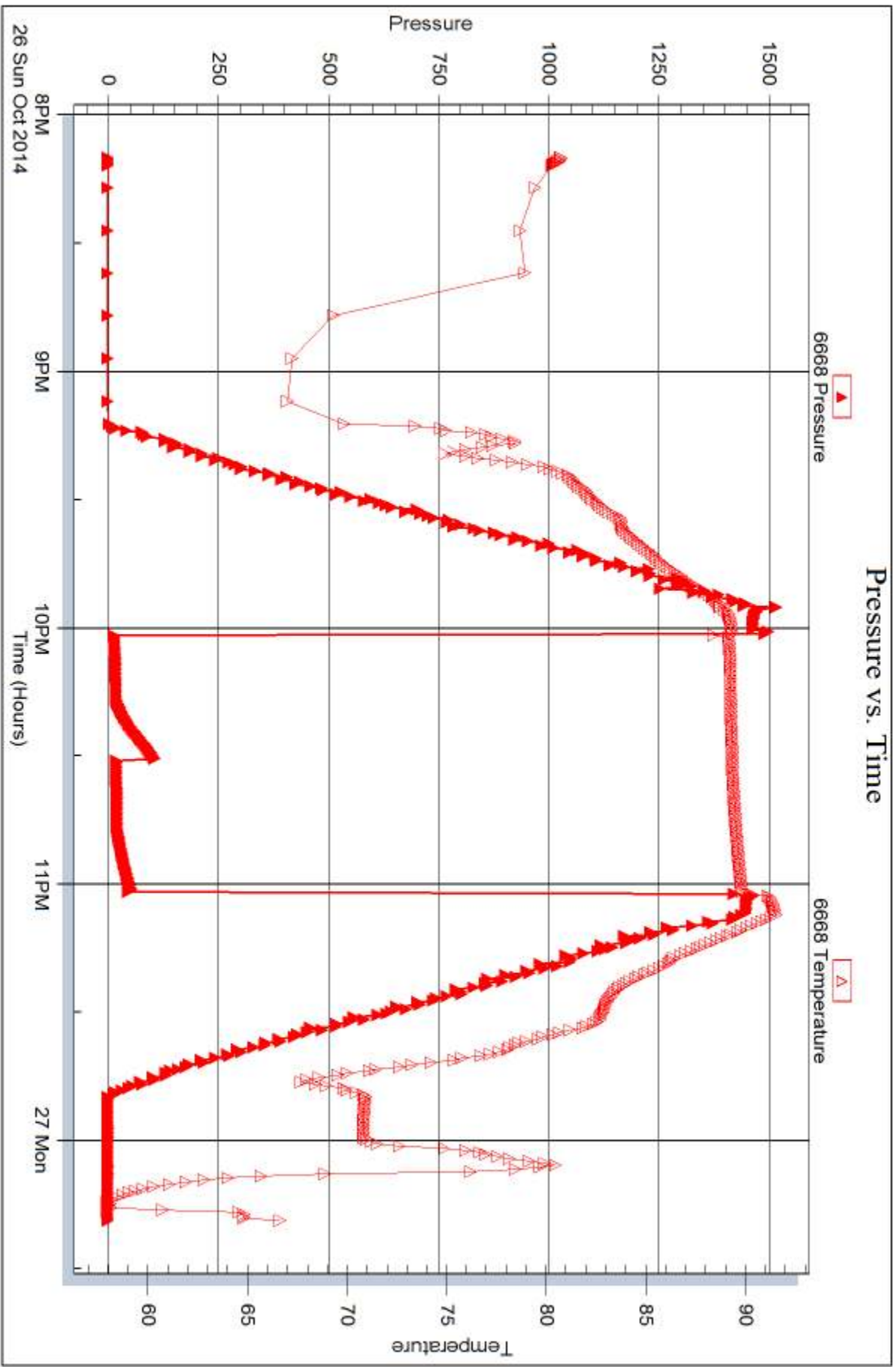


Serial #: 6668

Outside Brungardt Oil & Leasing Inc

Stranger Valley A #1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 60608

Printed: 2014, 10:30 @ 13:14:27



## DRILL STEM TEST REPORT

Prepared For: **Brungardt Oil & Leasing Inc**

213 W 7th St Box 871  
Russell KS 67665-1731

ATTN: Brad Hutchison

### **Stranger Valley A #1**

#### **26 12s 15w Russell,KS**

Start Date: 2014.10.27 @ 12:50:00

End Date: 2014.10.27 @ 16:56:00

Job Ticket #: 60609                      DST #: 3

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.10.30 @ 13:13:57



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Brungardt Oil & Leasing Inc

**26 12s 15w Russell, KS**

213 W 7th St Box 871  
Russell KS 67665-1731

**Stranger Valley A #1**

Job Ticket: 60609

**DST#: 3**

ATTN: Brad Hutchison

Test Start: 2014.10.27 @ 12:50:00

## GENERAL INFORMATION:

Formation: **LKC "I & J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:42:30

Time Test Ended: 16:56:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 76

**Interval: 3135.00 ft (KB) To 3200.00 ft (KB) (TVD)**

Reference Elevations: 1808.00 ft (KB)

Total Depth: 3200.00 ft (KB) (TVD)

1803.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8289**

**Inside**

Press@RunDepth: 20.23 psig @ 3142.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.10.27

End Date:

2014.10.27

Last Calib.:

2014.10.27

Start Time: 12:50:02

End Time:

16:56:00

Time On Btm:

2014.10.27 @ 14:42:15

Time Off Btm:

2014.10.27 @ 15:43:30

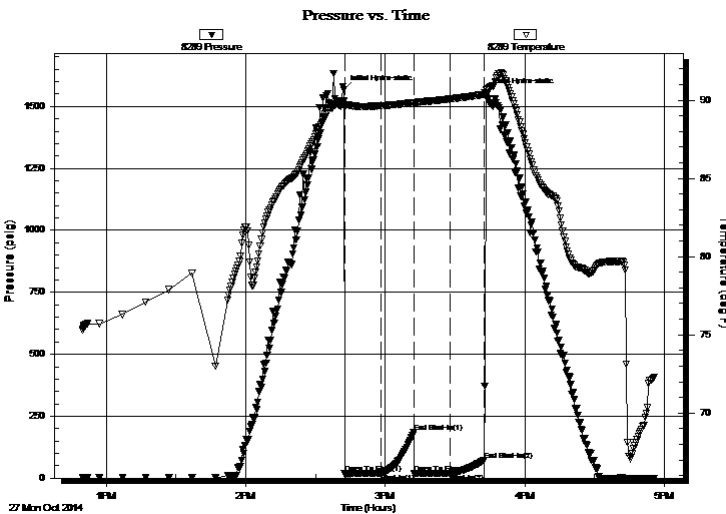
TEST COMMENT: 15-IFP- Weak 1/4" Blow Died in 12 min.

15-ISIP- No Blow

15-FFP- No Blow

15-FSIP- No Blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1568.24	89.94	Initial Hydro-static
1	17.62	89.52	Open To Flow (1)
16	19.98	89.64	Shut-In(1)
30	184.97	89.86	End Shut-In(1)
31	19.83	89.76	Open To Flow (2)
46	20.23	90.08	Shut-In(2)
61	73.35	90.37	End Shut-In(2)
62	1554.85	90.66	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud 100%	0.01

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Brungardt Oil & Leasing Inc

**26 12s 15w Russell, KS**

213 W 7th St Box 871  
Russell KS 67665-1731

**Stranger Valley A #1**

Job Ticket: 60609

**DST#: 3**

ATTN: Brad Hutchison

Test Start: 2014.10.27 @ 12:50:00

## GENERAL INFORMATION:

Formation: **LKC "I & J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:42:30

Time Test Ended: 16:56:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 76

**Interval: 3135.00 ft (KB) To 3200.00 ft (KB) (TVD)**

Reference Elevations: 1808.00 ft (KB)

Total Depth: 3200.00 ft (KB) (TVD)

1803.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 6668 Outside**

Press@RunDepth: psig @ 3142.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.10.27 End Date: 2014.10.27

Last Calib.: 2014.10.27

Start Time: 12:50:02 End Time: 16:52:15

Time On Btm:

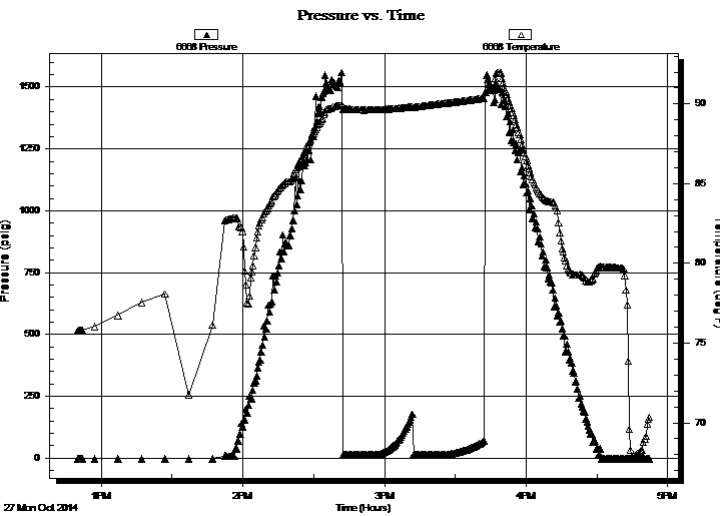
Time Off Btm:

TEST COMMENT: 15-IFP- Weak 1/4" Blow Died in 12 min.

15-ISIP- No Blow

15-FFP- No Blow

15-FSIP- No Blow



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud 100%	0.01

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Brungardt Oil & Leasing Inc

**26 12s 15w Russell, KS**

213 W 7th St Box 871  
Russell KS 67665-1731

**Stranger Valley A #1**

Job Ticket: 60609

**DST#: 3**

ATTN: Brad Hutchison

Test Start: 2014.10.27 @ 12:50:00

## Tool Information

Drill Pipe:	Length: 2706.00 ft	Diameter: 3.80 inches	Volume: 37.96 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 436.00 ft	Diameter: 2.75 inches	Volume: 3.20 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: 50000.00 lb
			<u>Total Volume: 41.16 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	3135.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.00 ft			
Tool Length:	86.00 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			3115.00	
Shut In Tool	5.00			3120.00	
Hydraulic tool	5.00			3125.00	
Packer	5.00			3130.00	21.00 Bottom Of Top Packer
Packer	5.00			3135.00	
Stubb	1.00			3136.00	
Perforations	6.00			3142.00	
Recorder	0.00	8289	Inside	3142.00	
Recorder	0.00	6668	Outside	3142.00	
Perforations	21.00			3163.00	
Change Over Sub	1.00			3164.00	
Blank Spacing	32.00			3196.00	
Change Over Sub	1.00			3197.00	
Bullnose	3.00			3200.00	65.00 Bottom Packers & Anchor

**Total Tool Length: 86.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Brungardt Oil & Leasing Inc

**26 12s 15w Russell, KS**

213 W 7th St Box 871  
Russell KS 67665-1731

**Stranger Valley A #1**

Job Ticket: 60609

**DST#: 3**

ATTN: Brad Hutchison

Test Start: 2014.10.27 @ 12:50:00

## 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: 10.37 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3700.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Mud 100%	0.015

Total Length: 2.00 ft      Total Volume: 0.015 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

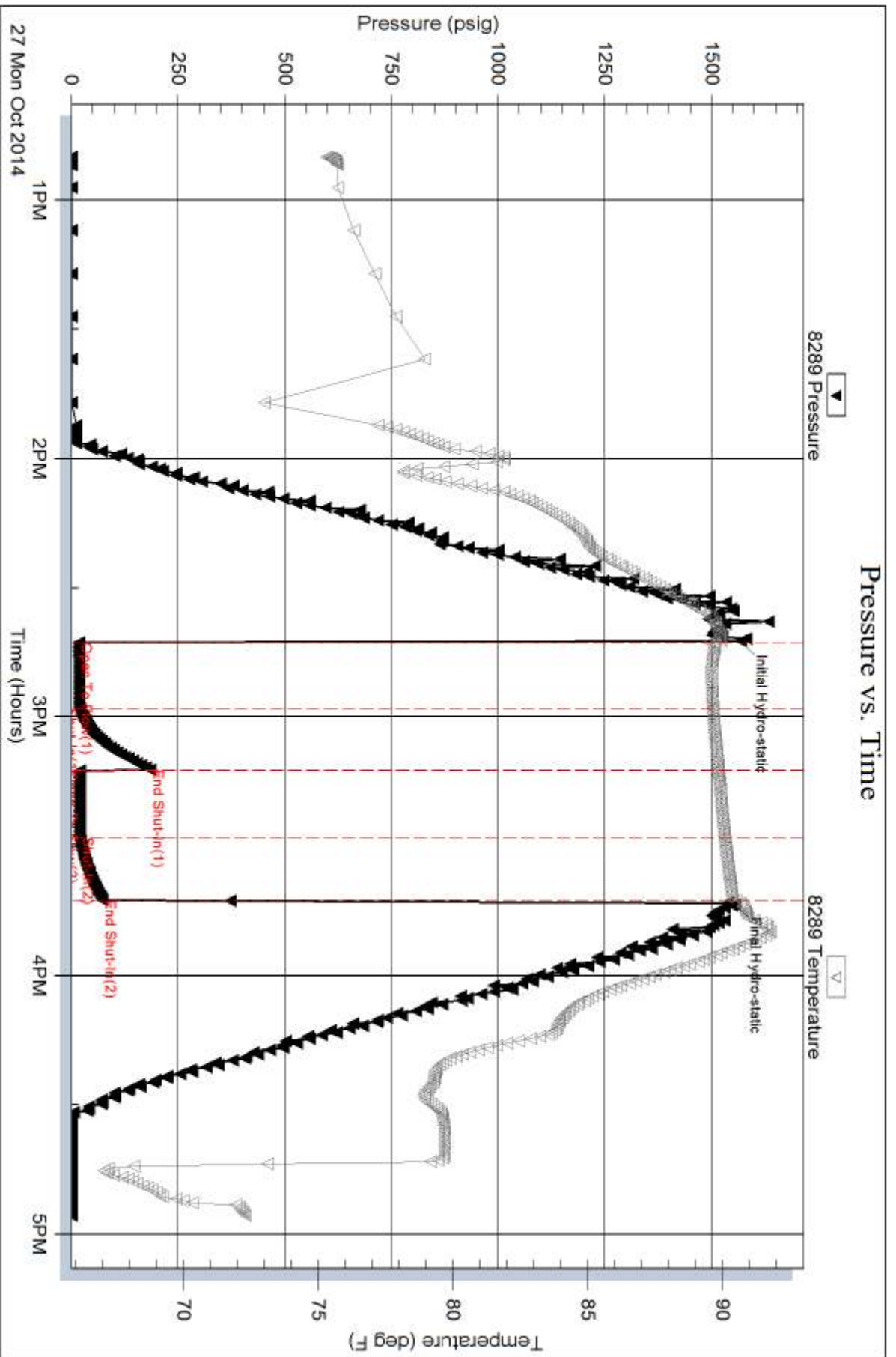
Serial #: 8289

Inside

Brungardt Oil & Leasing Inc

Stranger Valley A #1

DST Test Number: 3

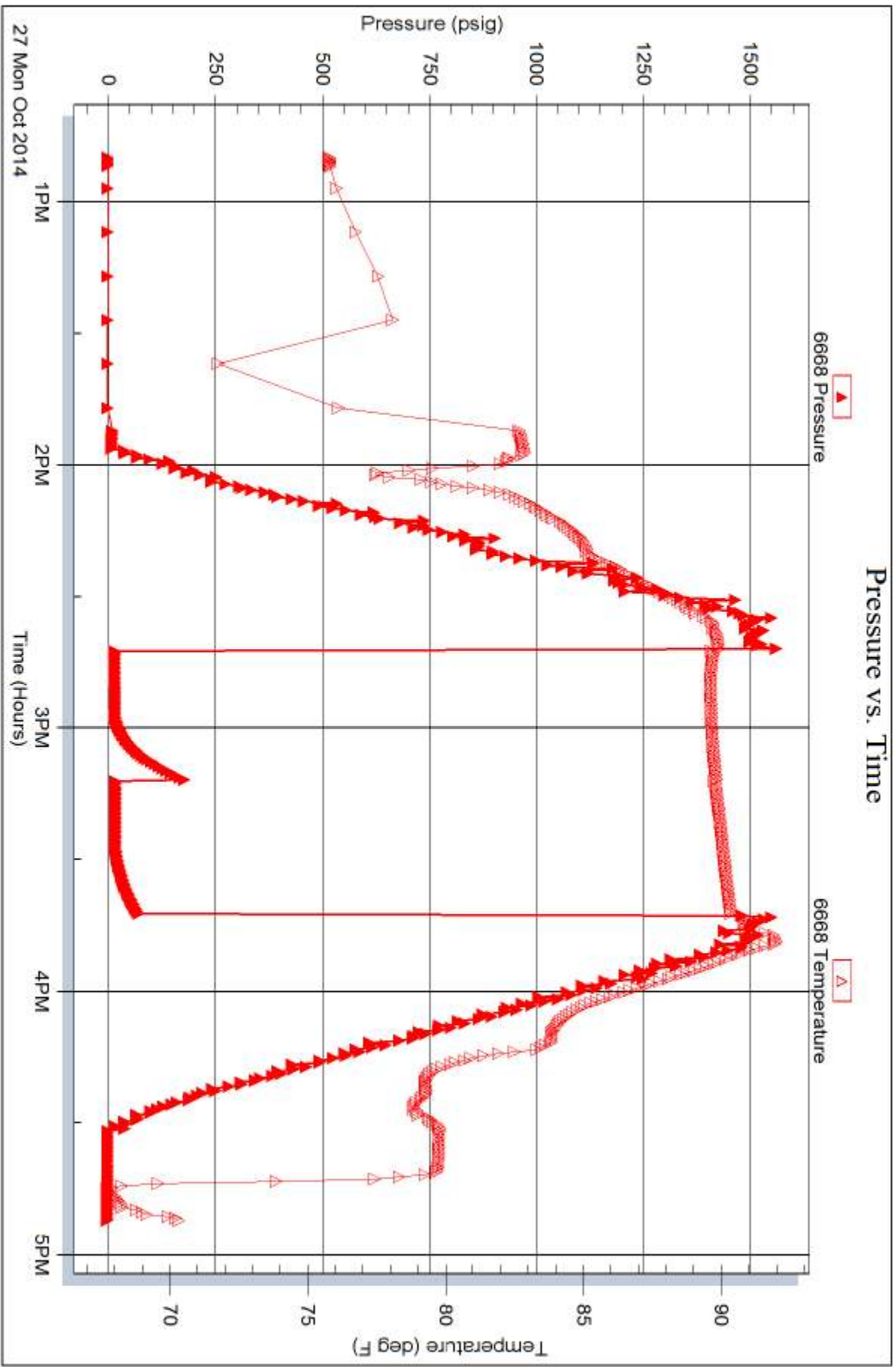


Serial #: 6668

Outside Brungardt Oil & Leasing Inc

Stranger Valley A #1

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 60609

Printed: 2014, 10:30 @ 13:13:58



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **60607**

Well Name & No. Stranger Valley A #1 Test No. 1 Date 10-26-14  
 Company Brungardt Oil & Leasing Inc. Elevation 1808 KB 1803 GL  
 Address 2130 7th St. Box 871 Russell KS, 67665-1731  
 Co. Rep / Geo. Brad Hutchison Rig Shields  
 Location: Sec. 26 Twp. 12<sup>s</sup> Rge. 15<sup>w</sup> Co. Russell State K5

Interval Tested 2965-3040 Zone Tested LKC "A-C"  
 Anchor Length 75 Drill Pipe Run 2517 Mud Wt. 8.8  
 Top Packer Depth 2960 Drill Collars Run 0 Vis 59  
 Bottom Packer Depth 2965 Wt. Pipe Run 436 WL 6.8  
 Total Depth 3040 Chlorides 1600 ppm System LCM 2

Blow Description IFP - Surface Blow Building to 6 in.  
ISIP - No Blow  
FFP - Surface Blow Building to 7 1/2 in.  
FSIP - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>125</u>	<u>MCW</u>		<u>75</u>	<u>25</u>	
<u>85</u>	<u>MUD show of Oil</u>			<u>100</u>	

Rec Total 210 BHT 93 Gravity API RW 275 @ 78° F Chlorides 22000 ppm  
 (A) Initial Hydrostatic 1442  Test 1150 T-On Location 5:10  
 (B) First Initial Flow 29  Jars \_\_\_\_\_ T-Started 7:07  
 (C) First Final Flow 72  Safety Joint \_\_\_\_\_ T-Open 8:54  
 (D) Initial Shut-In 425  Circ Sub \_\_\_\_\_ T-Pulled 11:54  
 (E) Second Initial Flow 72  Hourly Standby \_\_\_\_\_ T-Out 13:07  
 (F) Second Final Flow 119  Mileage 54 RT 83.70 Comments \_\_\_\_\_  
 (G) Final Shut-In 423  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1439  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 30  
 Final Flow 60  
 Final Shut-In 60  
 Sub Total 0  
 Total 1233.70  
 Sub Total 1233.70  
 MP/DST Disc't \_\_\_\_\_

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.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 60608

Well Name & No. Stranger Valley A #1 Test No. 2 Date 10-26-14  
 Company Scungard Oil & Leasing Inc. Elevation 1808 KB 1803 GL  
 Address 2130 W. 7th St Box 877 Russell KS 67665-1731  
 Co. Rep / Geo. Brad Hutchison Rig Shields  
 Location: Sec. 26 Twp. 12<sup>s</sup> Rge. 15<sup>w</sup> Co. Russell State KS

Interval Tested 3050-3080 Zone Tested LKC "E+F"  
 Anchor Length 30 Drill Pipe Run 2613 Mud Wt. 9.3  
 Top Packer Depth 3045 Drill Collars Run 0 Vis 55  
 Bottom Packer Depth 3050 Wt. Pipe Run 436 WL 6.8  
 Total Depth 3080 Chlorides 3100 ppm System LCM 2

Blow Description IFP - 1/4 in - Weak Blow  
ISIP - No Blow  
FFP - No Blow  
FSIP - No Blow

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

Rec Total 5 BHT 90 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

A) Initial Hydrostatic 1494  Test 1150 T-On Location 19:46  
 B) First Initial Flow 16  Jars \_\_\_\_\_ T-Started 20:10  
 C) First Final Flow 20  Safety Joint \_\_\_\_\_ T-Open 22:02  
 D) Initial Shut-In 108  Circ Sub \_\_\_\_\_ T-Pulled 23:02  
 E) Second Initial Flow 20  Hourly Standby \_\_\_\_\_ T-Out 00:19  
 F) Second Final Flow 22  Mileage 83.70 Comments \_\_\_\_\_  
 G) Final Shut-In 55  Sampler \_\_\_\_\_  
 H) Final Hydrostatic 1437  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1233.70  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1233.70

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

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **60609**

Well Name & No. Stranger Valley A #1 Test No. 3 Date 10-27-14  
 Company Brungard Oil Leasing Inc. Elevation 1808 KB 1803 GL  
 Address 213 W 7th St Box 871 Russell KS 67665-1731  
 Co. Rep / Geo. Brad Hutchison Rig Shields  
 Location: Sec. 26 Twp. 12<sup>s</sup> Rge. 15<sup>w</sup> Co. Russell State KS

Interval Tested 3135-3200 Zone Tested LKC "I-J"  
 Anchor Length 65 Drill Pipe Run 2706 Mud Wt. 9.3  
 Top Packer Depth 3130 Drill Collars Run 0 Vis 60  
 Bottom Packer Depth 3135 Wt. Pipe Run 436 WL 10.4  
 Total Depth 3200 Chlorides 3700 ppm System LCM 1

Blow Description IFP - Weak 1/4 in Blow Dried in 12 min.  
ISIP - No Blow  
FFP - No Blow  
FSIP - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</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 2 BHT 90  
 (A) Initial Hydrostatic 1568  
 (B) First Initial Flow 17  
 (C) First Final Flow 19  
 (D) Initial Shut-In 184  
 (E) Second Initial Flow 19  
 (F) Second Final Flow 20  
 (G) Final Shut-In 73  
 (H) Final Hydrostatic 1554

Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm  
 Test 1150  
 Jars \_\_\_\_\_  
 Safety Joint \_\_\_\_\_  
 Circ Sub \_\_\_\_\_  
 Hourly Standby \_\_\_\_\_  
 Mileage 83.70  
 Sampler \_\_\_\_\_  
 Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1233.70

T-On Location 10:58  
 T-Started 12:50  
 T-Open 14:43  
 T-Pulled 15:43  
 T-Out 16:56

Initial Open 15  
 Initial Shut-In 15  
 Final Flow 15  
 Final Shut-In 15

Comments \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Sub Total 0  
 Total 1233.70  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_

Our Representative \_\_\_\_\_

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