



DRILL STEM TEST REPORT

Prepared For: **John O. Farmer Inc.**

P.O. Box 352
Russell, KS 67665

ATTN: Austin Klaus

Stranger Valley #1

31-12s-14w Russell,KS

Start Date: 2014.04.12 @ 13:19:00

End Date: 2014.04.12 @ 19:42:00

Job Ticket #: 57536 DST #: 1

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

Printed: 2014.04.16 @ 14:57:45



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

John O. Farmer Inc.

31-12s-14w Russell,KS

P.O. Box 352
Russell, KS 67665

Stranger Valley #1

Job Ticket: 57536

DST#: 1

ATTN: Austin Klaus

Test Start: 2014.04.12 @ 13:19:00

GENERAL INFORMATION:

Formation: **LKC A-B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:15:30

Time Test Ended: 19:42:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Tim Phillips

Unit No: 76

Interval: 2969.00 ft (KB) To 3033.00 ft (KB) (TVD)

Reference Elevations: 1817.00 ft (KB)

Total Depth: 3033.00 ft (KB) (TVD)

1809.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8789 Inside

Press@RunDepth: 43.06 psig @ 2997.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.12 End Date: 2014.04.12

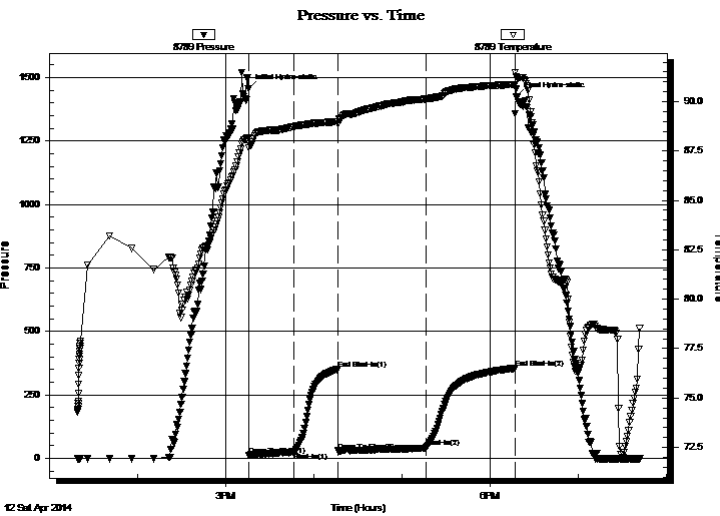
Last Calib.: 2014.04.12

Start Time: 13:19:02 End Time: 19:41:45

Time On Btm: 2014.04.12 @ 15:15:15

Time Off Btm: 2014.04.12 @ 18:17:45

TEST COMMENT: IF- Blow built to 5"
IS- Dead no blow back
FF- Blow built to 4"
FS- Dead no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1457.79	88.18	Initial Hydro-static
1	12.52	87.66	Open To Flow (1)
31	25.68	88.72	Shut-In(1)
61	350.83	88.98	End Shut-In(1)
61	29.87	88.86	Open To Flow (2)
121	43.06	90.13	Shut-In(2)
182	354.64	90.88	End Shut-In(2)
183	1423.23	91.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	100% Mud	0.88

Gas Rates

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



**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

John O. Farmer Inc.

31-12s-14w Russell,KS

P.O. Box 352
Russell, KS 67665

Stranger Valley #1

Job Ticket: 57536

DST#: 1

ATTN: Austin Klaus

Test Start: 2014.04.12 @ 13:19:00

Tool Information

Drill Pipe:	Length: 2972.00 ft	Diameter: 3.80 inches	Volume: 41.69 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 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: lb
			<u>Total Volume: 41.69 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	2969.00 ft			Final lb
Depth to Bottom Packer:	ft			
Interval between Packers:	64.00 ft			
Tool Length:	85.00 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			2949.00	
Shut In Tool	5.00			2954.00	
Hydraulic tool	5.00			2959.00	
Packer	5.00			2964.00	21.00 Bottom Of Top Packer
Packer	5.00			2969.00	
Stubb	1.00			2970.00	
Perforations	27.00			2997.00	
Recorder	0.00	8789	Inside	2997.00	
Recorder	0.00	6668	Outside	2997.00	
Change Over Sub	1.00			2998.00	
Blank Spacing	31.00			3029.00	
Change Over Sub	1.00			3030.00	
Bullnose	3.00			3033.00	64.00 Bottom Packers & Anchor

Total Tool Length: 85.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

John O. Farmer Inc.

31-12s-14w Russell,KS

P.O. Box 352
Russell, KS 67665

Stranger Valley #1

Job Ticket: 57536

DST#: 1

ATTN: Austin Klaus

Test Start: 2014.04.12 @ 13:19:00

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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.91 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
63.00	100% Mud	0.884

Total Length: 63.00 ft Total Volume: 0.884 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

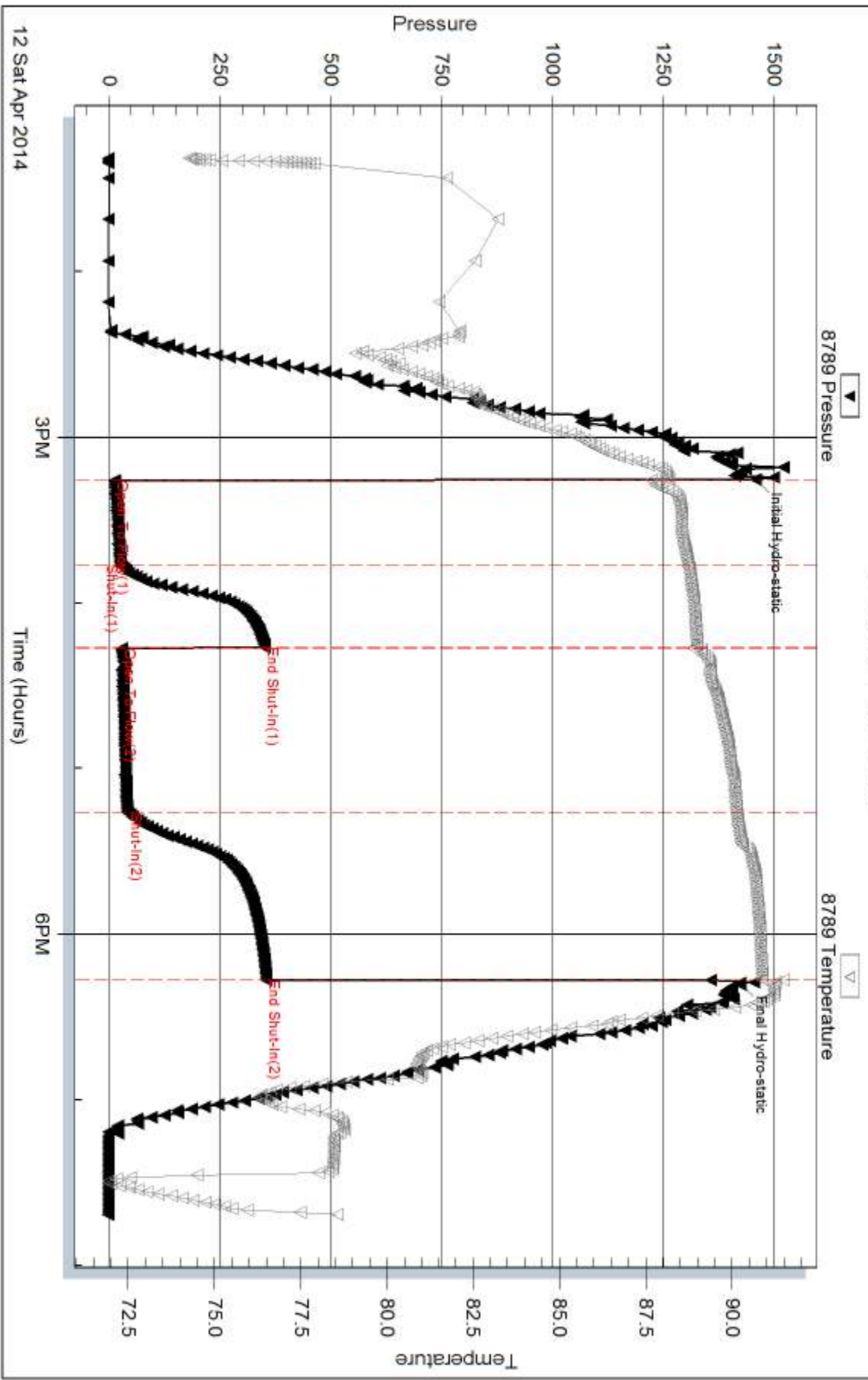
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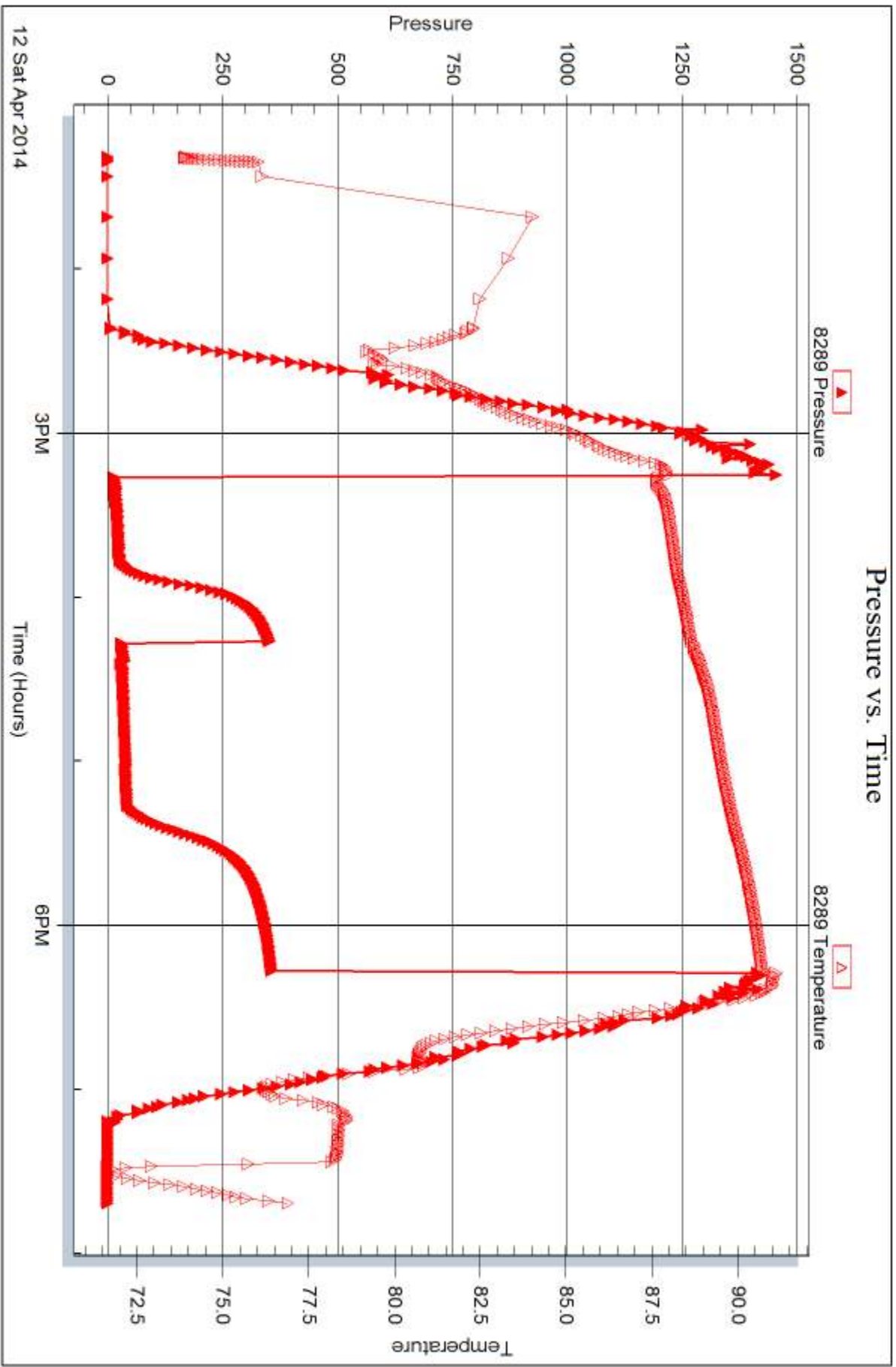
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **John O. Farmer Inc.**

P.O. Box 352
Russell, KS 67665

ATTN: Austin Klaus

Stranger Valley #1

31-12s-14w Russell,KS

Start Date: 2014.04.13 @ 01:37:00

End Date: 2014.04.13 @ 08:33:00

Job Ticket #: 57537 DST #: 2

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

Printed: 2014.04.16 @ 14:57:13



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

John O. Farmer Inc.

31-12s-14w Russell,KS

P.O. Box 352
Russell, KS 67665

Stranger Valley #1

Job Ticket: 57537

DST#: 2

ATTN: Austin Klaus

Test Start: 2014.04.13 @ 01:37:00

GENERAL INFORMATION:

Formation: **LKC C**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:31:30
 Time Test Ended: 08:33:00
 Interval: **3035.00 ft (KB) To 3055.00 ft (KB) (TVD)**
 Total Depth: 3055.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Tim Phillips
 Unit No: 76
 Reference Elevations: 1817.00 ft (KB)
 1809.00 ft (CF)
 KB to GR/CF: 8.00 ft

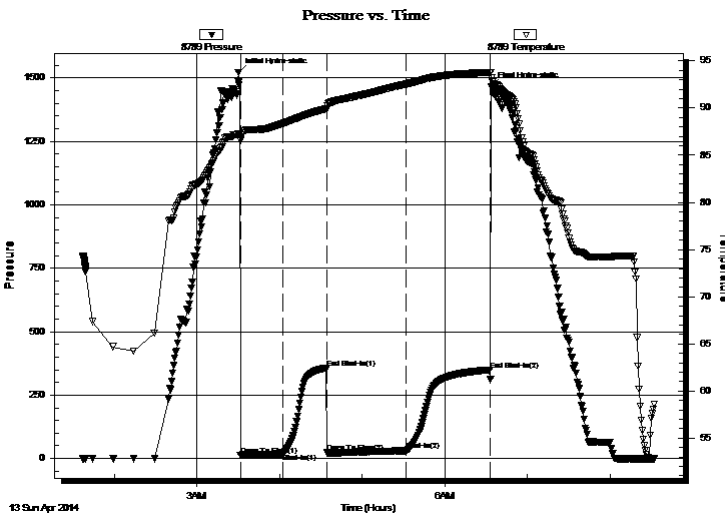
Serial #: 8789

Inside

Press@RunDepth: 31.00 psig @ 3052.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.04.13 End Date: 2014.04.13 Last Calib.: 2014.04.13
 Start Time: 01:37:02 End Time: 08:32:30 Time On Btm: 2014.04.13 @ 03:30:00
 Time Off Btm: 2014.04.13 @ 06:34:00

TEST COMMENT: IFP- Blow built to 2 3/4"
 IS- Dead no blow back
 FF- Blow built to 2"
 FS- Dead no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1522.21	87.23	Initial Hydro-static
2	12.39	86.60	Open To Flow (1)
32	18.57	88.33	Shut-In(1)
64	356.95	89.93	End Shut-In(1)
65	22.79	89.82	Open To Flow (2)
122	31.00	92.54	Shut-In(2)
183	349.66	93.79	End Shut-In(2)
184	1467.23	93.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	WCM 40% W, 60% M	0.56

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

John O. Farmer Inc.

31-12s-14w Russell,KS

P.O. Box 352
Russell, KS 67665

Stranger Valley #1

Job Ticket: 57537

DST#: 2

ATTN: Austin Klaus

Test Start: 2014.04.13 @ 01:37:00

Tool Information

Drill Pipe:	Length: 3034.00 ft	Diameter: 3.80 inches	Volume: 42.56 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 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: lb
			<u>Total Volume: 42.56 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3035.00 ft			Final lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	41.00 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			3015.00	
Shut In Tool	5.00			3020.00	
Hydraulic tool	5.00			3025.00	
Packer	5.00			3030.00	21.00 Bottom Of Top Packer
Packer	5.00			3035.00	
Stubb	1.00			3036.00	
Perforations	16.00			3052.00	
Recorder	0.00	8789	Inside	3052.00	
Recorder	0.00	6668	Outside	3052.00	
Bullnose	3.00			3055.00	20.00 Bottom Packers & Anchor
Total Tool Length:	41.00				



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

John O. Farmer Inc.

31-12s-14w Russell, KS

P.O. Box 352
Russell, KS 67665

Stranger Valley #1

Job Ticket: 57537

DST#: 2

ATTN: Austin Klaus

Test Start: 2014.04.13 @ 01:37:00

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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.89 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	WCM 40% W, 60% M	0.561

Total Length: 40.00 ft Total Volume: 0.561 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

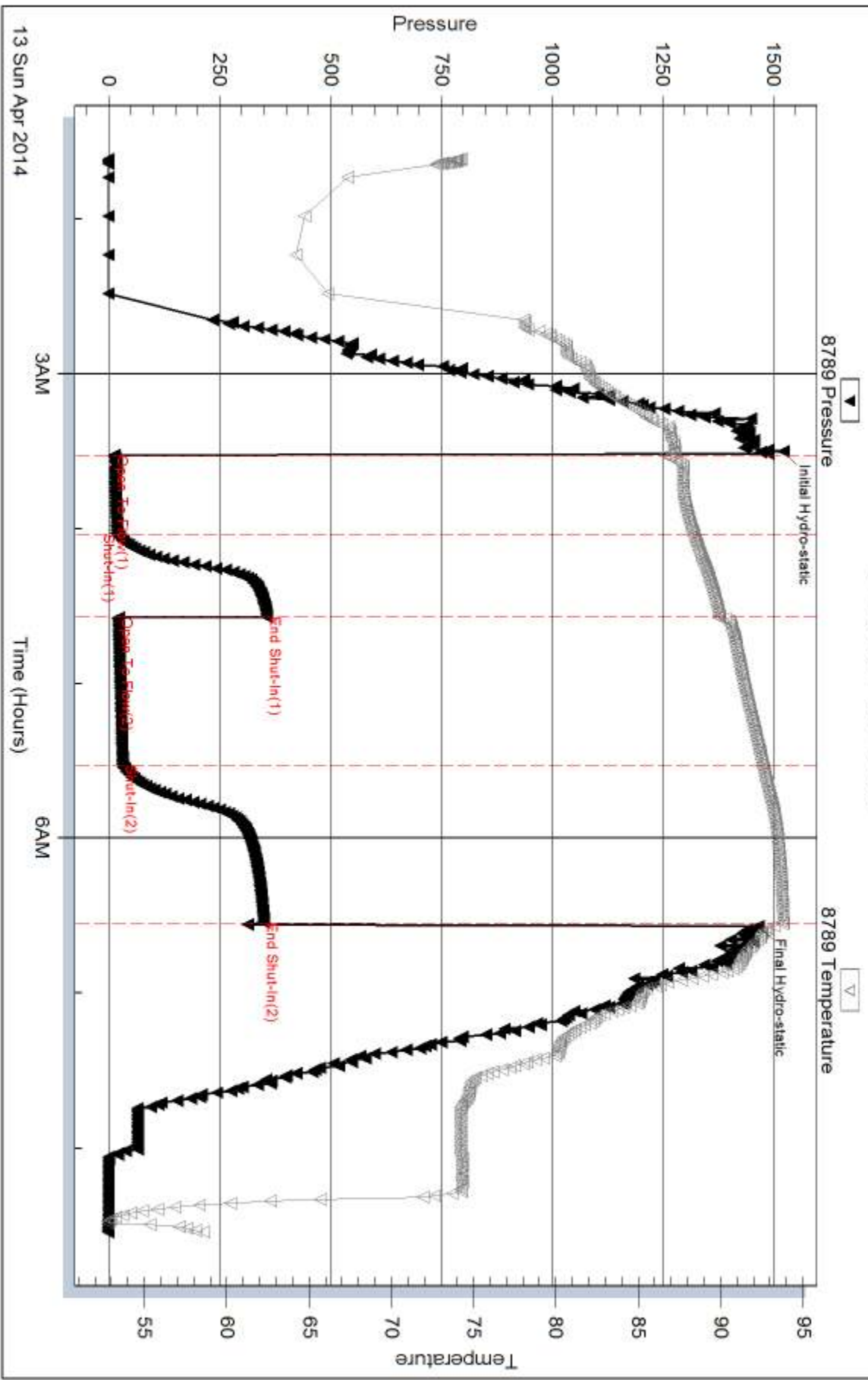
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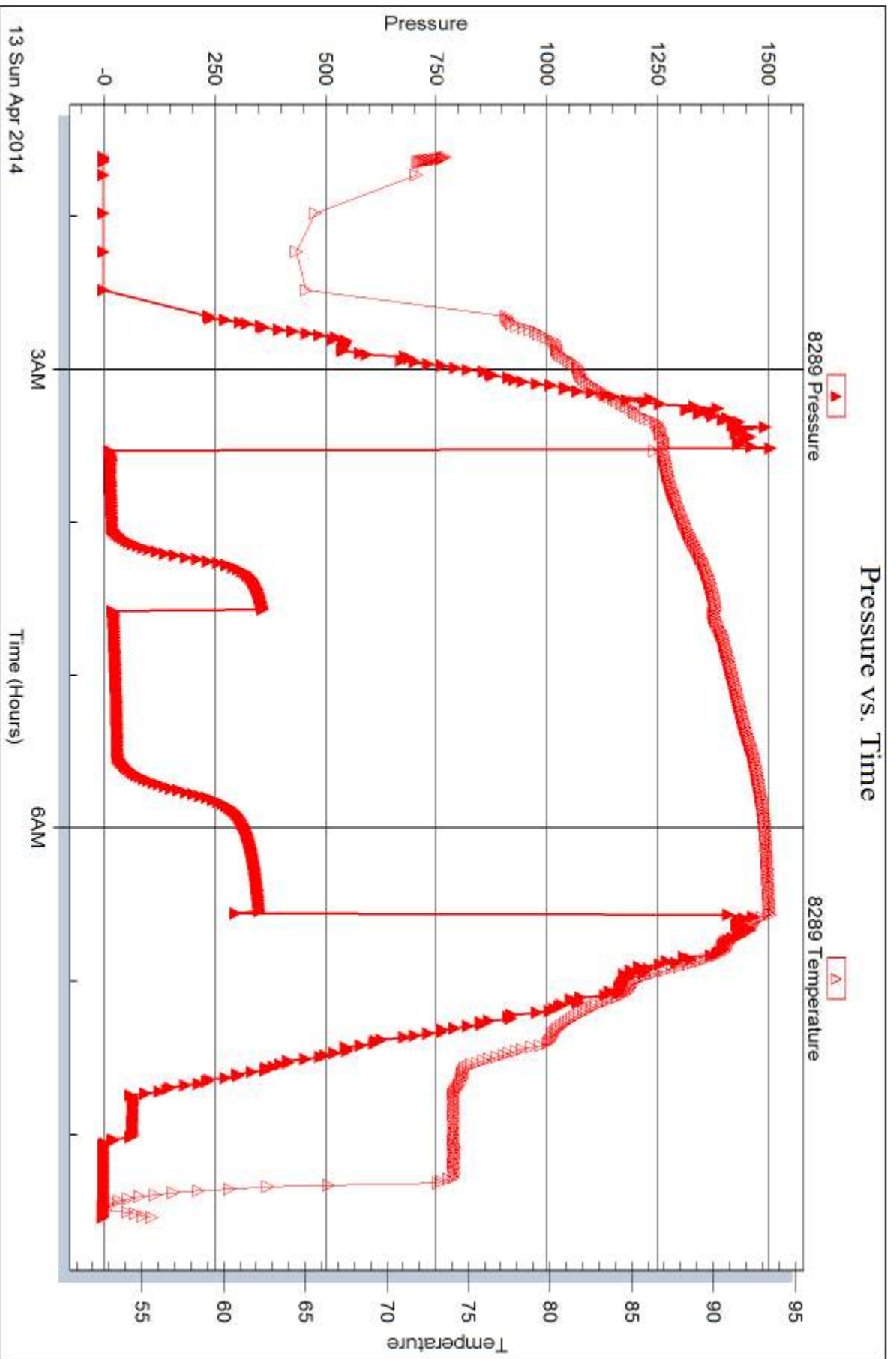
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **John O. Farmer Inc.**

P.O. Box 352
Russell, KS 67665

ATTN: Austin Klaus

Stranger Valley #1

31-12s-14w Russell,KS

Start Date: 2014.04.13 @ 16:16:00

End Date: 2014.04.13 @ 23:03:00

Job Ticket #: 57538 DST #: 3

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

Printed: 2014.04.16 @ 14:56:46

John O. Farmer Inc.
31-12s-14w Russell,KS
Stranger Valley #1
DST # 3
LKC E,F
2014.04.13



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

John O. Farmer Inc.

31-12s-14w Russell,KS

P.O. Box 352
Russell, KS 67665

Stranger Valley #1

Job Ticket: 57538

DST#: 3

ATTN: Austin Klaus

Test Start: 2014.04.13 @ 16:16:00

GENERAL INFORMATION:

Formation: **LKC E,F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:13:45

Time Test Ended: 23:03:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Tim Phillips

Unit No: 76

Interval: 3060.00 ft (KB) To 3115.00 ft (KB) (TVD)

Reference Elevations: 1817.00 ft (KB)

Total Depth: 3033.00 ft (KB) (TVD)

1809.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8789

Inside

Press@RunDepth: 86.74 psig @ 3079.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.13

End Date:

2014.04.13

Last Calib.:

2014.04.13

Start Time:

16:16:02

End Time:

23:02:45

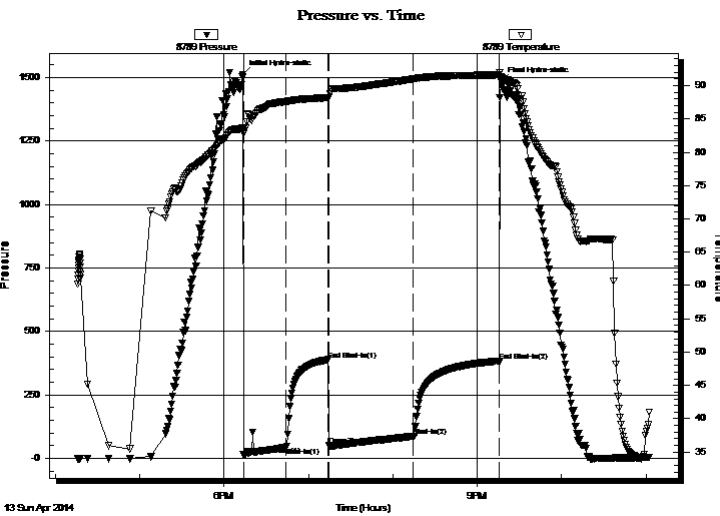
Time On Btm:

2014.04.13 @ 18:13:15

Time Off Btm:

2014.04.13 @ 21:16:45

TEST COMMENT: IFP- Blow built to 7"
IS- Dead no blow back
FF- Blow built to 6 1/4"
FS- Dead no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1510.52	83.64	Initial Hydro-static
1	14.58	82.87	Open To Flow (1)
31	43.43	87.61	Shut-In(1)
61	389.20	88.19	End Shut-In(1)
62	51.25	88.22	Open To Flow (2)
121	86.74	90.97	Shut-In(2)
183	381.55	91.61	End Shut-In(2)
184	1483.66	91.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
150.00	MCW 30%M, 70%W	2.10

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O. Farmer Inc.

31-12s-14w Russell,KS

P.O. Box 352
Russell, KS 67665

Stranger Valley #1

Job Ticket: 57538

DST#: 3

ATTN: Austin Klaus

Test Start: 2014.04.13 @ 16:16:00

Tool Information

Drill Pipe:	Length: 3065.00 ft	Diameter: 3.80 inches	Volume: 42.99 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 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: lb
			<u>Total Volume: 42.99 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3060.00 ft			Final lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	76.00 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			3040.00	
Shut In Tool	5.00			3045.00	
Hydraulic tool	5.00			3050.00	
Packer	5.00			3055.00	21.00 Bottom Of Top Packer
Packer	5.00			3060.00	
Stubb	1.00			3061.00	
Perforations	18.00			3079.00	
Recorder	0.00	8789	Inside	3079.00	
Recorder	0.00	6668	Outside	3079.00	
Change Over Sub	1.00			3080.00	
Blank Spacing	31.00			3111.00	
Change Over Sub	1.00			3112.00	
Bullnose	3.00			3115.00	55.00 Bottom Packers & Anchor

Total Tool Length: 76.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O. Farmer Inc.

31-12s-14w Russell,KS

P.O. Box 352
Russell, KS 67665

Stranger Valley #1

Job Ticket: 57538

DST#: 3

ATTN: Austin Klaus

Test Start: 2014.04.13 @ 16:16:00

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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.90 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	MCW 30%M, 70%W	2.104

Total Length: 150.00 ft Total Volume: 2.104 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

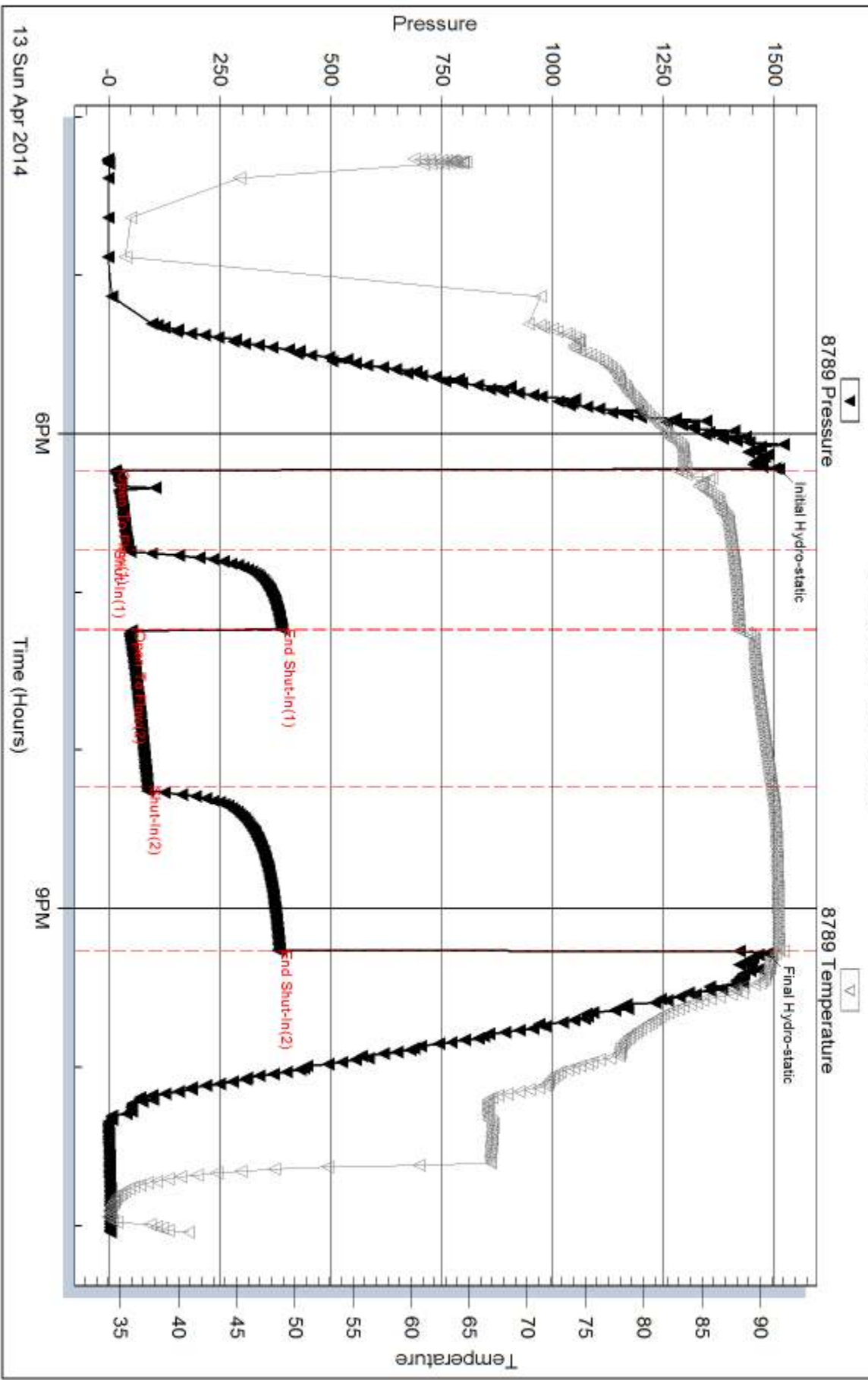
Serial #:

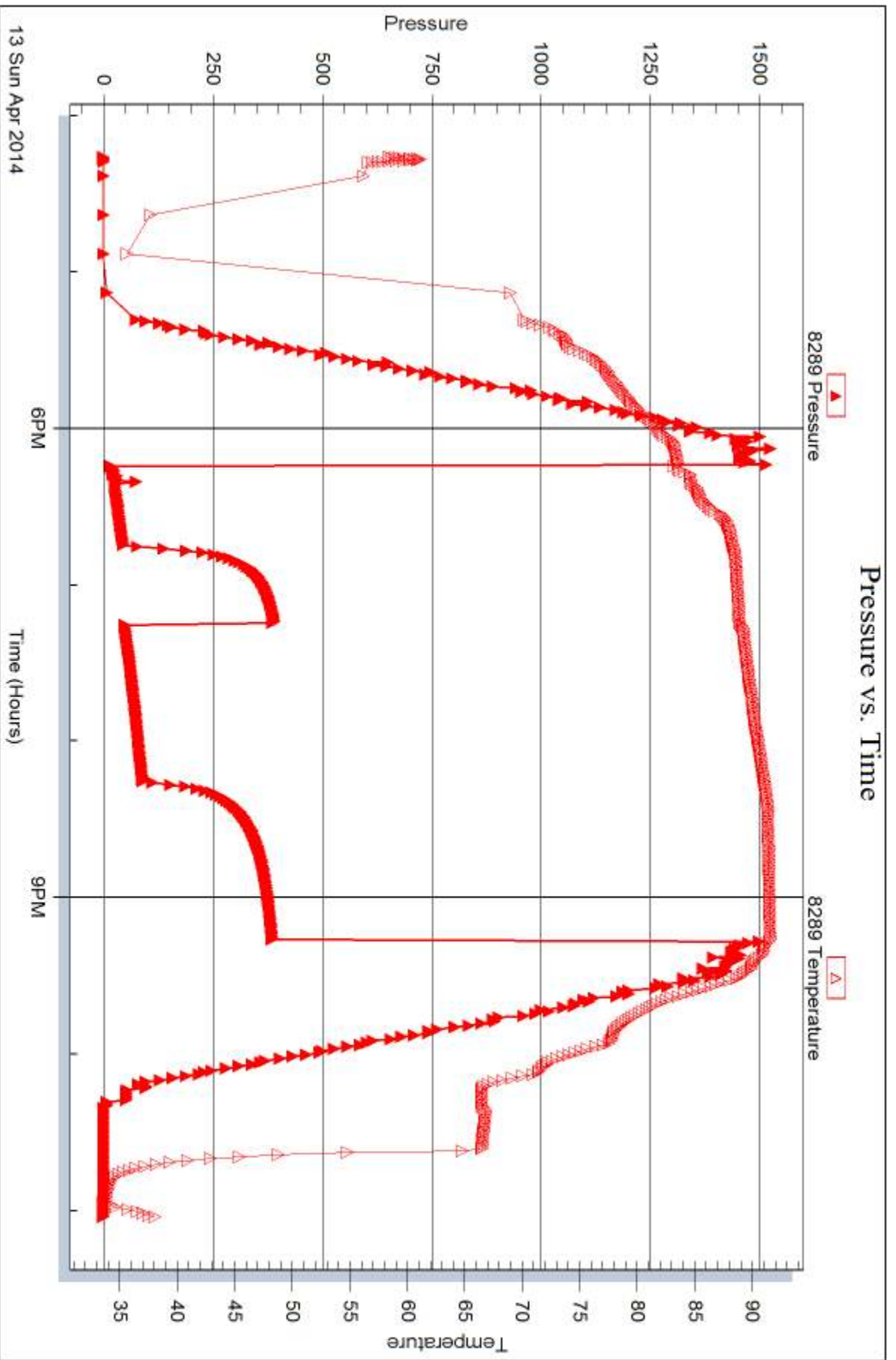
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **John O. Farmer Inc.**

P.O. Box 352
Russell, KS 67665

ATTN: Austin Klaus

Stranger Valley #1

31-12s-14w Russell,KS

Start Date: 2014.04.14 @ 14:36:00

End Date: 2014.04.14 @ 21:17:00

Job Ticket #: 57590 DST #: 4

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

Printed: 2014.04.16 @ 14:56:13

John O. Farmer Inc.

31-12s-14w Russell,KS

Stranger Valley #1

DST # 4

LKC "H-L"

2014.04.14



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

John O. Farmer Inc.

31-12s-14w Russell,KS

P.O. Box 352
Russell, KS 67665

Stranger Valley #1

Job Ticket: 57590

DST#: 4

ATTN: Austin Klaus

Test Start: 2014.04.14 @ 14:36:00

GENERAL INFORMATION:

Formation: **LKC "H - L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:41:15

Time Test Ended: 21:17:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 76

Interval: 3125.00 ft (KB) To 3252.00 ft (KB) (TVD)

Reference Elevations: 1817.00 ft (KB)

Total Depth: 3252.00 ft (KB) (TVD)

1809.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8289 Outside

Press@RunDepth: 24.65 psig @ 3128.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.14 End Date: 2014.04.14

Last Calib.: 2014.04.14

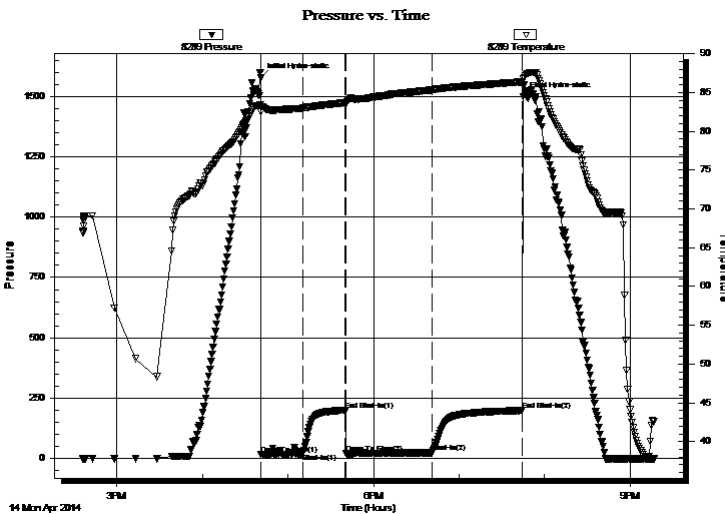
Start Time: 14:36:02 End Time: 21:17:15

Time On Btm: 2014.04.14 @ 16:41:00

Time Off Btm: 2014.04.14 @ 19:45:00

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

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1575.38	83.44	Initial Hydro-static
1	17.16	82.52	Open To Flow (1)
30	20.55	83.01	Shut-In(1)
60	200.60	83.70	End Shut-In(1)
60	20.53	83.64	Open To Flow (2)
120	24.65	85.36	Shut-In(2)
184	198.84	86.39	End Shut-In(2)
184	1499.54	86.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud 100%	0.42

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O. Farmer Inc.

31-12s-14w Russell,KS

P.O. Box 352
Russell, KS 67665

Stranger Valley #1

Job Ticket: 57590

DST#: 4

ATTN: Austin Klaus

Test Start: 2014.04.14 @ 14:36:00

Tool Information

Drill Pipe:	Length: 3128.00 ft	Diameter: 3.80 inches	Volume: 43.88 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 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: 50000.00 lb
			<u>Total Volume: 43.88 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	3125.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	127.00 ft			
Tool Length:	148.00 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			3105.00	
Shut In Tool	5.00			3110.00	
Hydraulic tool	5.00			3115.00	
Packer	5.00			3120.00	21.00 Bottom Of Top Packer
Packer	5.00			3125.00	
Stubb	1.00			3126.00	
Perforations	2.00			3128.00	
Recorder	0.00	8789	Inside	3128.00	
Recorder	0.00	8289	Outside	3128.00	
Perforations	25.00			3153.00	
Change Over Sub	1.00			3154.00	
Blank Spacing	94.00			3248.00	
Change Over Sub	1.00			3249.00	
Bullnose	3.00			3252.00	127.00 Bottom Packers & Anchor

Total Tool Length: 148.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O. Farmer Inc.

31-12s-14w Russell,KS

P.O. Box 352
Russell, KS 67665

Stranger Valley #1

Job Ticket: 57590

DST#: 4

ATTN: Austin Klaus

Test Start: 2014.04.14 @ 14:36:00

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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Mud 100%	0.421

Total Length: 30.00 ft Total Volume: 0.421 bbl

Num Fluid Samples: 0

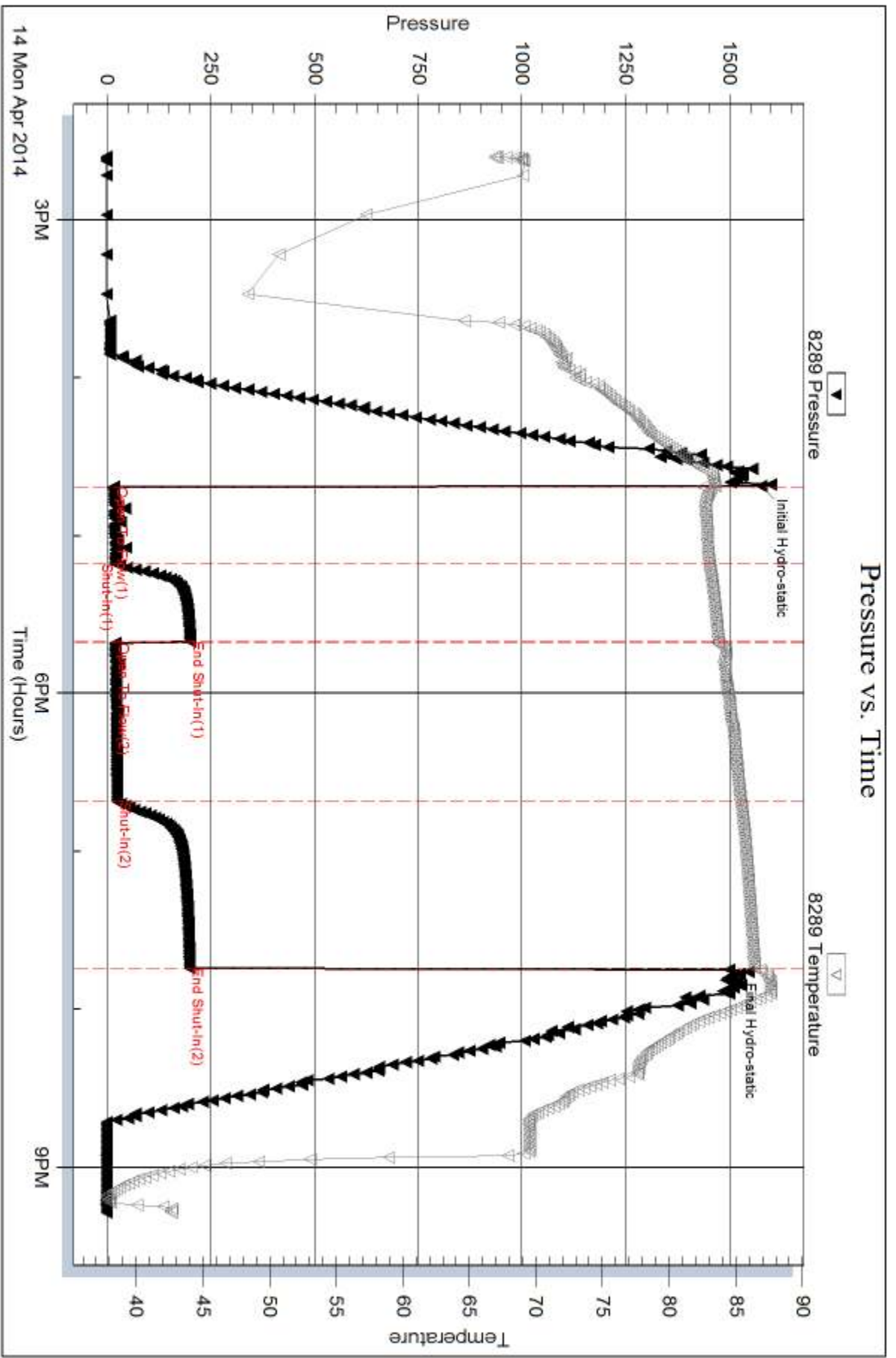
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



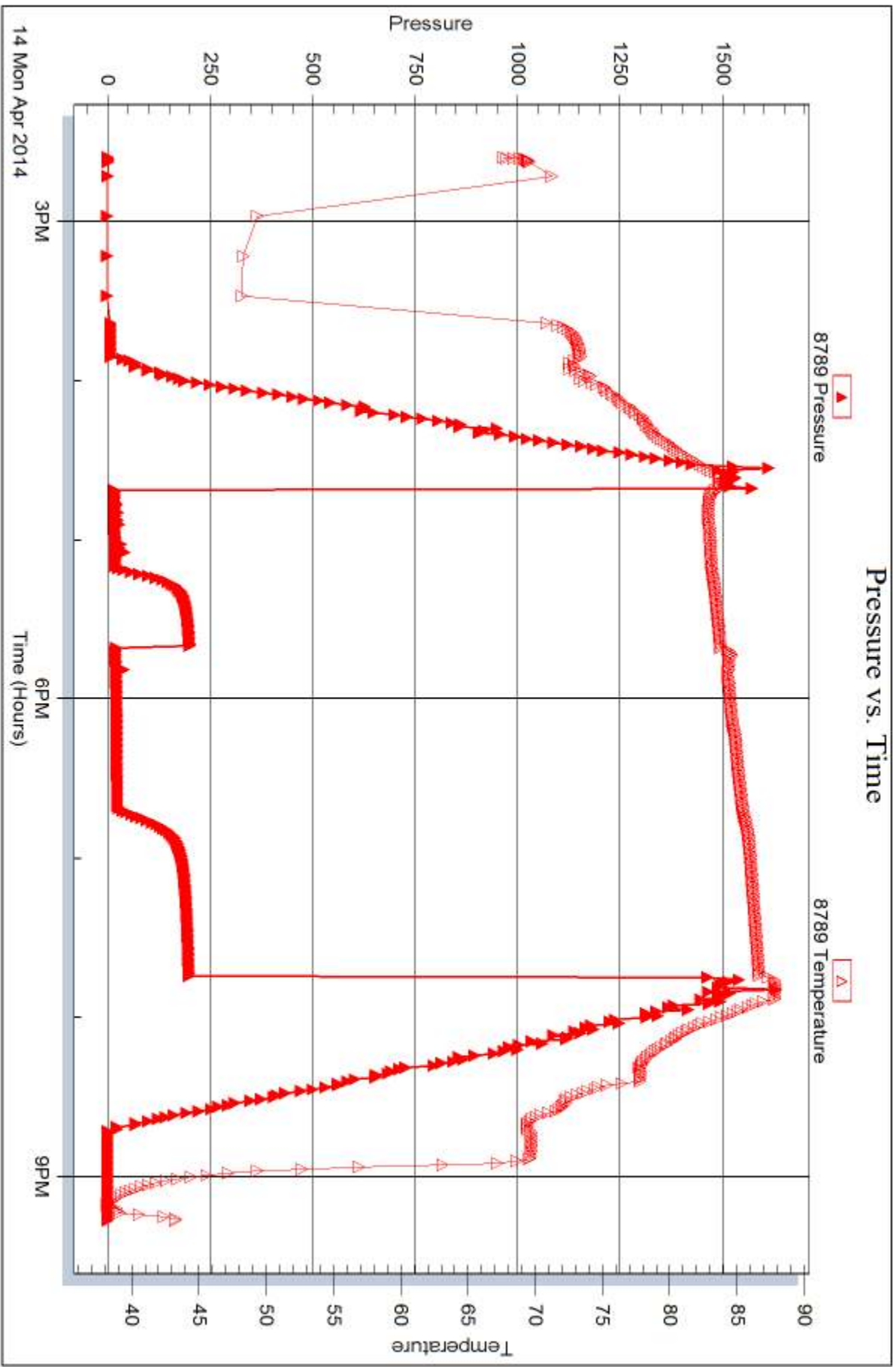
Serial #: 8789

Inside

John O. Farmer Inc.

Stranger Valley #1

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **John O. Farmer Inc.**

P.O. Box 352
Russell, KS 67665

ATTN: Austin Klaus

Stranger Valley #1

31-12s-14w Russell,KS

Start Date: 2014.04.15 @ 11:38:00

End Date: 2014.04.15 @ 18:08:00

Job Ticket #: 57591 DST #: 5

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

Printed: 2014.04.16 @ 14:55:28

John O. Farmer Inc.
31-12s-14w Russell,KS
Stranger Valley #1
DST # 5
Arbuckle
2014.04.15



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

John O. Farmer Inc.

31-12s-14w Russell,KS

P.O. Box 352
Russell, KS 67665

Stranger Valley #1

Job Ticket: 57591

DST#: 5

ATTN: Austin Klaus

Test Start: 2014.04.15 @ 11:38:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:16:30

Time Test Ended: 18:08:00

Test Type: Conventional Straddle (Reset)

Tester: Jim Svaty

Unit No: 76

Interval: 3246.00 ft (KB) To 3287.00 ft (KB) (TVD)

Reference Elevations: 1817.00 ft (KB)

Total Depth: 3350.00 ft (KB) (TVD)

1809.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8289 Outside

Press@RunDepth: 60.35 psig @ 3249.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.15 End Date: 2014.04.15

Last Calib.: 2014.04.15

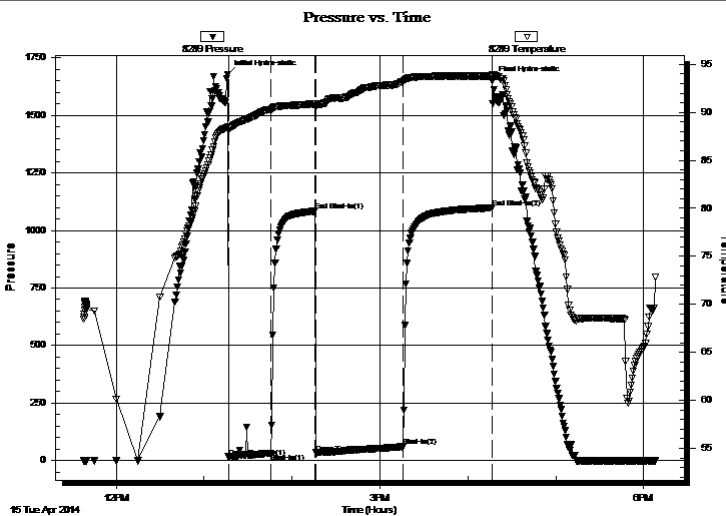
Start Time: 11:38:02 End Time: 18:08:00

Time On Btm: 2014.04.15 @ 13:16:15

Time Off Btm: 2014.04.15 @ 16:16:45

TEST COMMENT: 30-IFP- Surface Blow Building to 5 1/4"
30-ISIP- No Blow
60-FFP- Surface Blow Building to 8 1/2"
60-FSIP- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1678.12	88.54	Initial Hydro-static
1	16.64	88.12	Open To Flow (1)
30	32.76	90.28	Shut-In(1)
60	1084.02	90.88	End Shut-In(1)
60	33.59	90.62	Open To Flow (2)
120	60.35	93.19	Shut-In(2)
180	1097.39	93.79	End Shut-In(2)
181	1651.82	93.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
92.00	WOCM 2%w 10%o 88%m	1.29
10.00	CO 100%	0.14

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O. Farmer Inc.

31-12s-14w Russell,KS

P.O. Box 352
Russell, KS 67665

Stranger Valley #1

Job Ticket: 57591

DST#: 5

ATTN: Austin Klaus

Test Start: 2014.04.15 @ 11:38:00

Tool Information

Drill Pipe:	Length: 3252.00 ft	Diameter: 3.80 inches	Volume: 45.62 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 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: 52000.00 lb
			<u>Total Volume: 45.62 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	3246.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	3287.00 ft			
Interval between Packers:	41.00 ft			
Tool Length:	124.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

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

Change Over Sub	1.00			3226.00	
Shut In Tool	5.00			3231.00	
Hydraulic tool	5.00			3236.00	
Packer	5.00			3241.00	21.00 Bottom Of Top Packer
Packer	5.00			3246.00	
Stubb	1.00			3247.00	
Perforations	2.00			3249.00	
Recorder	0.00	8789	Inside	3249.00	
Recorder	0.00	8289	Outside	3249.00	
Change Over Sub	1.00			3250.00	
Blank Spacing	31.00			3281.00	
Change Over Sub	1.00			3282.00	
Perforations	1.00			3283.00	
Blank Off Sub	1.00			3284.00	
Blank Spacing	3.00			3287.00	41.00 Tool Interval
Packer	1.00			3288.00	
Perforations	25.00			3313.00	
Change Over Sub	1.00			3314.00	
Recorder	0.00	6668	Below	3314.00	
Blank Spacing	31.00			3345.00	
Change Over Sub	1.00			3346.00	
Bullnose	3.00			3349.00	62.00 Bottom Packers & Anchor

Total Tool Length: 124.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O. Farmer Inc.

31-12s-14w Russell,KS

P.O. Box 352
Russell, KS 67665

Stranger Valley #1

Job Ticket: 57591

DST#: 5

ATTN: Austin Klaus

Test Start: 2014.04.15 @ 11:38:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

22 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.96 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
92.00	WOCM 2%w 10%o 88%m	1.291
10.00	CO 100%	0.140

Total Length: 102.00 ft Total Volume: 1.431 bbf

Num Fluid Samples: 0

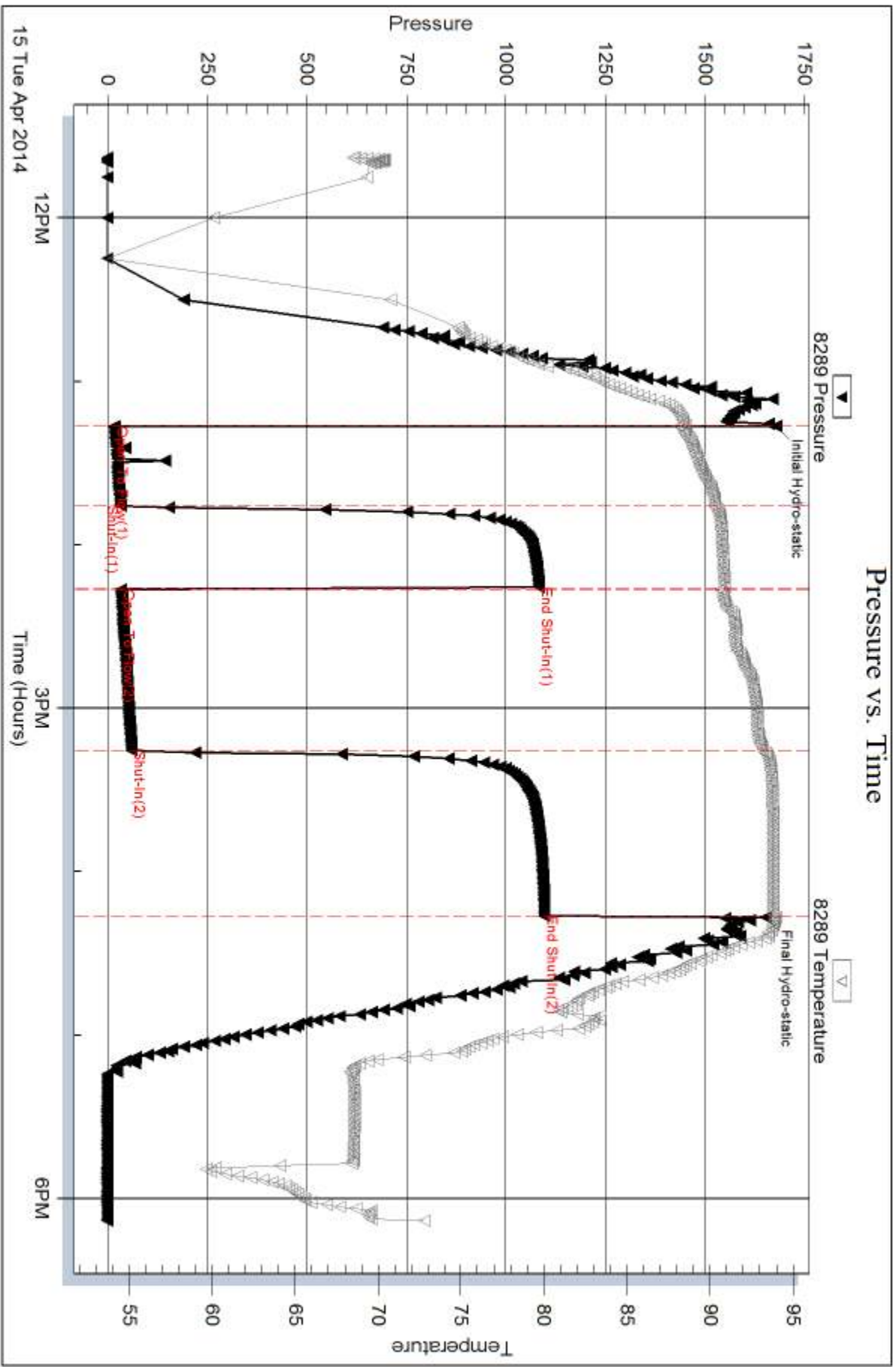
Num Gas Bombs: 0

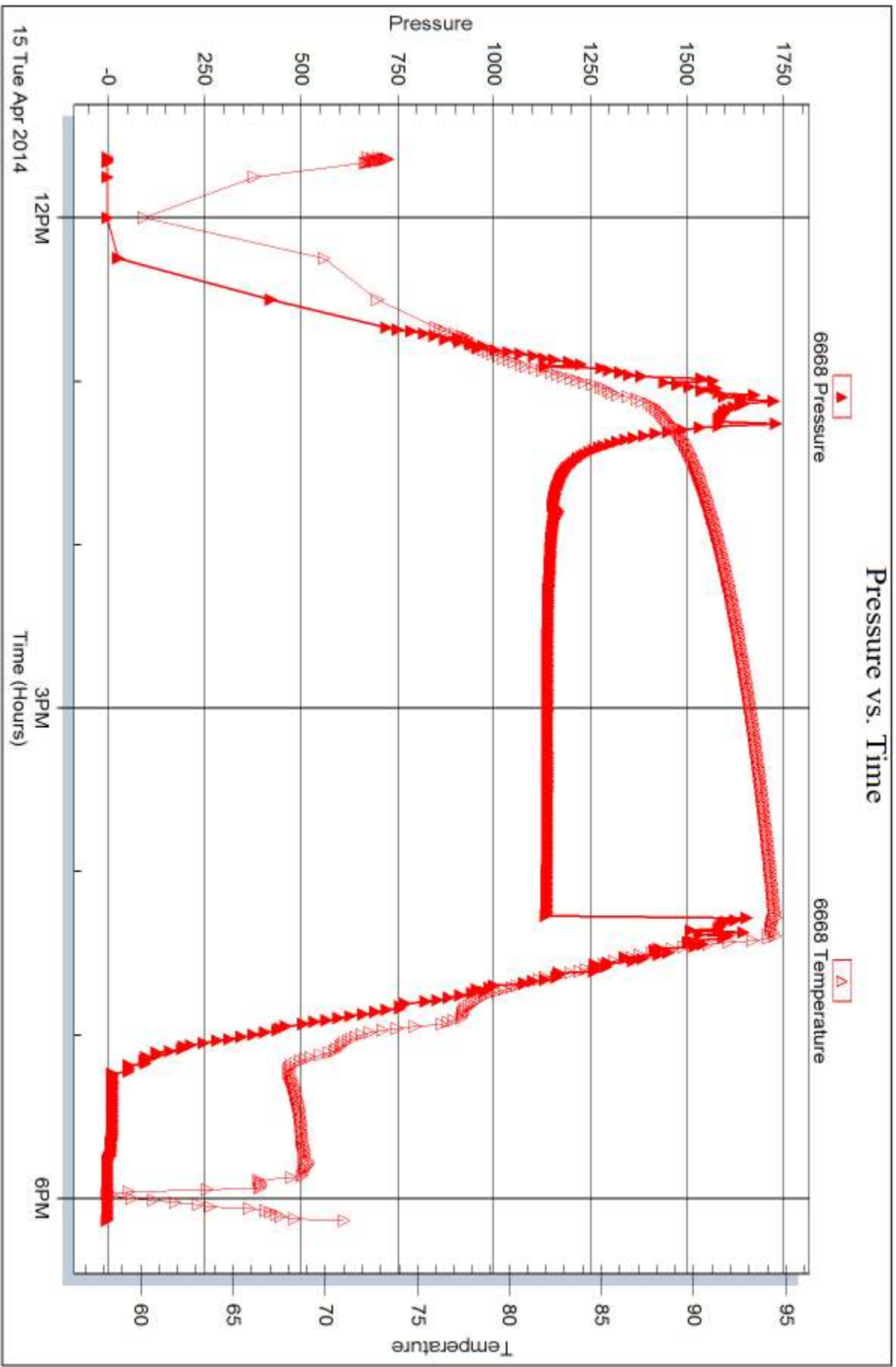
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





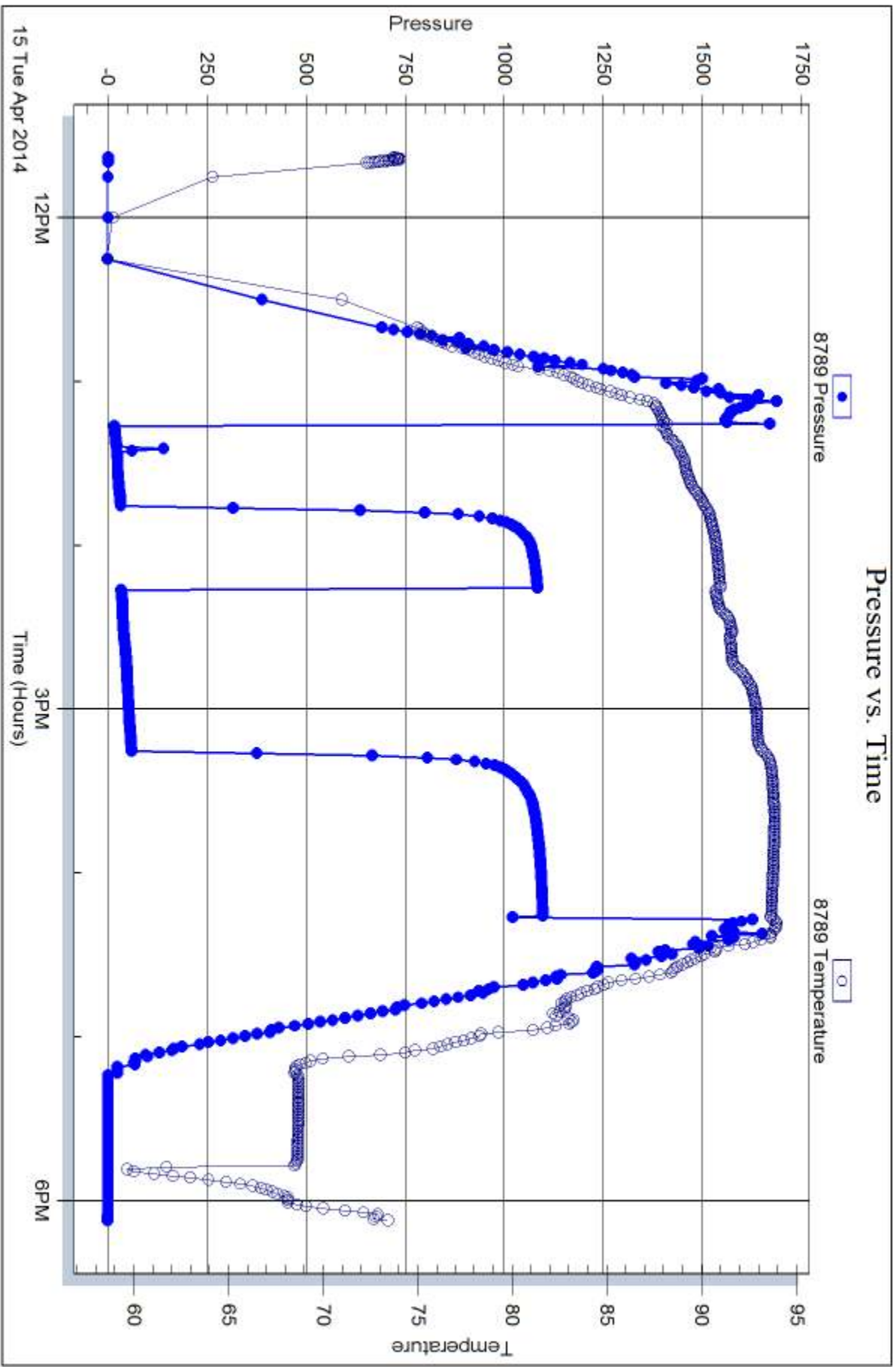
Serial #: 8789

Inside

John O. Farmer Inc.

Stranger Valley #1

DST Test Number: 5



Triobite Testing, Inc

Ref. No: 57591

Printed: 2014.04.16 @ 14:55:31



DRILL STEM TEST REPORT

Prepared For: **John O. Farmer Inc.**

P.O. Box 352
Russell, KS 67665

ATTN: Austin Klaus

Stranger Valley #1

31-12s-14w Russell,KS

Start Date: 2014.04.15 @ 18:41:00

End Date: 2014.04.16 @ 00:46:00

Job Ticket #: 57592 DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.04.16 @ 14:54:41

John O. Farmer Inc.

31-12s-14w Russell,KS

Stranger Valley #1

DST # 6

Arbuckle

2014.04.15



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

John O. Farmer Inc.

31-12s-14w Russell,KS

P.O. Box 352
Russell, KS 67665

Stranger Valley #1

Job Ticket: 57592

DST#: 6

ATTN: Austin Klaus

Test Start: 2014.04.15 @ 18:41:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:17:30

Time Test Ended: 00:46:00

Test Type: Conventional Straddle (Reset)

Tester: Jim Svaty

Unit No: 76

Interval: 3245.00 ft (KB) To 3294.00 ft (KB) (TVD)

Reference Elevations: 1817.00 ft (KB)

Total Depth: 3350.00 ft (KB) (TVD)

1809.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8289 Outside

Press@RunDepth: 402.28 psig @ 3257.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.15

End Date:

2014.04.16

Last Calib.:

2014.04.16

Start Time: 18:41:02

End Time:

00:46:00

Time On Btm:

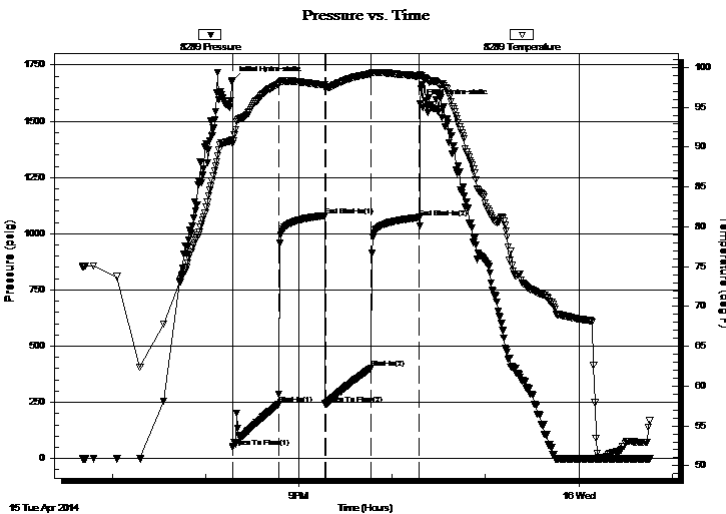
2014.04.15 @ 20:17:15

Time Off Btm:

2014.04.15 @ 22:18:00

TEST COMMENT: 30-IFP- BOB in 5 min.
30-ISIP- No Blow
30-FFP- BOB in 5 min.
30-FSIP- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1682.17	90.89	Initial Hydro-static
1	48.92	90.42	Open To Flow (1)
30	240.27	97.88	Shut-In(1)
60	1080.21	97.82	End Shut-In(1)
60	242.15	97.63	Open To Flow (2)
90	402.28	99.19	Shut-In(2)
121	1072.05	98.90	End Shut-In(2)
121	1579.97	99.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
313.00	OSMCW 2%o 5% m 93%w	4.39
375.00	OSMCW 3%o 22% m 75%w	5.26
155.00	OSM 4%o 96% m	2.17

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O. Farmer Inc.

31-12s-14w Russell,KS

P.O. Box 352
Russell, KS 67665

Stranger Valley #1

Job Ticket: 57592

DST#: 6

ATTN: Austin Klaus

Test Start: 2014.04.15 @ 18:41:00

Tool Information

Drill Pipe:	Length: 3252.00 ft	Diameter: 3.80 inches	Volume: 45.62 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 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: 80000.00 lb
			<u>Total Volume: 45.62 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	3245.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	3294.00 ft			
Interval between Packers:	49.00 ft			
Tool Length:	125.00 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			3225.00	
Shut In Tool	5.00			3230.00	
Hydraulic tool	5.00			3235.00	
Packer	5.00			3240.00	21.00 Bottom Of Top Packer
Packer	5.00			3245.00	
Stubb	1.00			3246.00	
Perforations	10.00			3256.00	
Change Over Sub	1.00			3257.00	
Recorder	0.00	8789	Inside	3257.00	
Recorder	0.00	8289	Outside	3257.00	
Blank Spacing	31.00			3288.00	
Change Over Sub	1.00			3289.00	
Perforations	1.00			3290.00	
Blank Off Sub	1.00			3291.00	
Blank Spacing	3.00			3294.00	49.00 Tool Interval
Packer	1.00			3295.00	
Perforations	18.00			3313.00	
Change Over Sub	1.00			3314.00	
Recorder	0.00	6668	Below	3314.00	
Blank Spacing	31.00			3345.00	
Change Over Sub	1.00			3346.00	
Bullnose	3.00			3349.00	55.00 Bottom Packers & Anchor

Total Tool Length: 125.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O. Farmer Inc.

31-12s-14w Russell,KS

P.O. Box 352
Russell, KS 67665

Stranger Valley #1

Job Ticket: 57592

DST#: 6

ATTN: Austin Klaus

Test Start: 2014.04.15 @ 18:41:00

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:

15000 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
313.00	OSMCW 2%o 5%m 93%w	4.391
375.00	OSMCW 3%o 22%m 75%w	5.260
155.00	OSM 4%o 96%m	2.174

Total Length: 843.00 ft

Total Volume: 11.825 bbl

Num Fluid Samples: 0

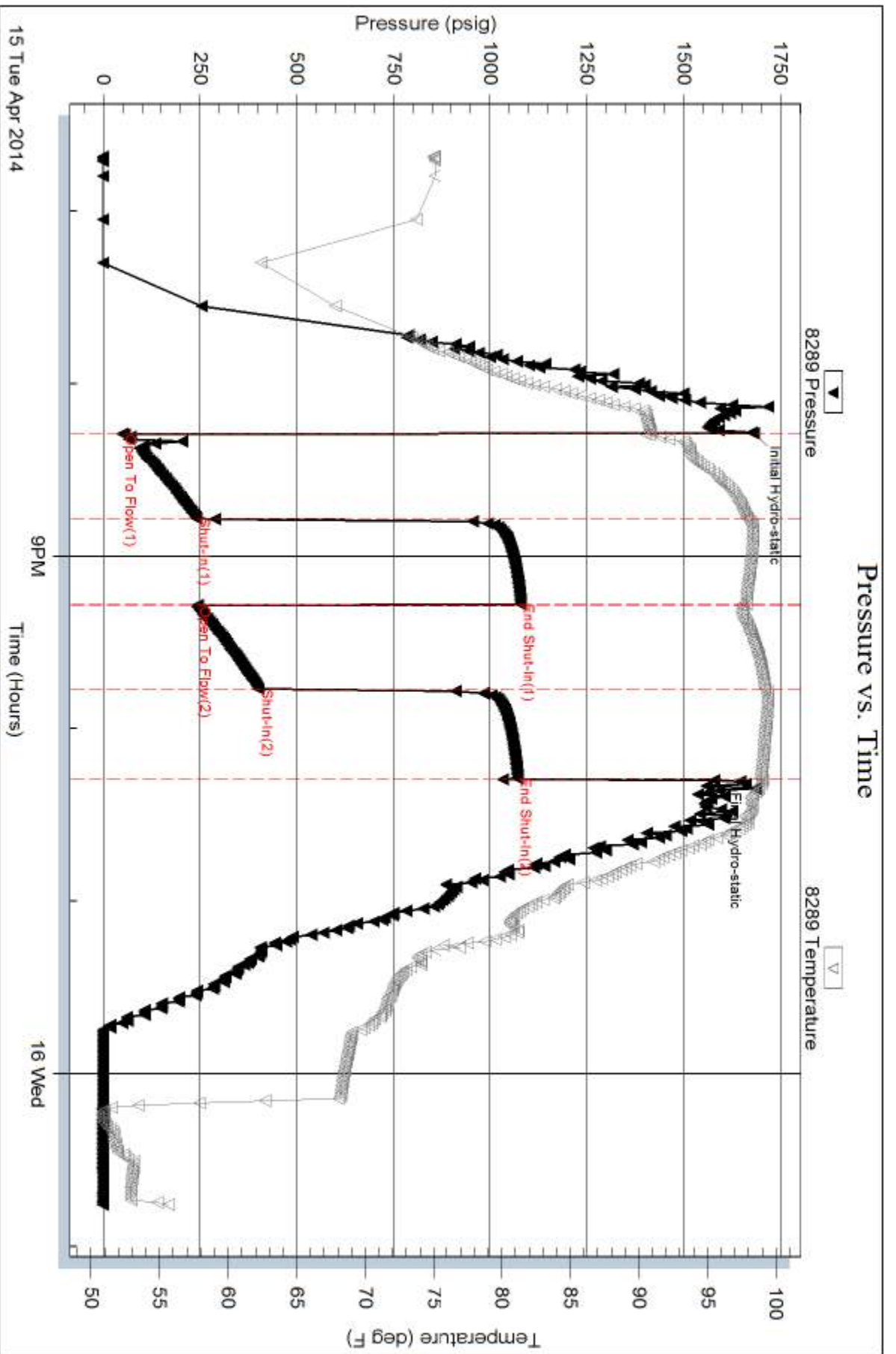
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .577 @ 53

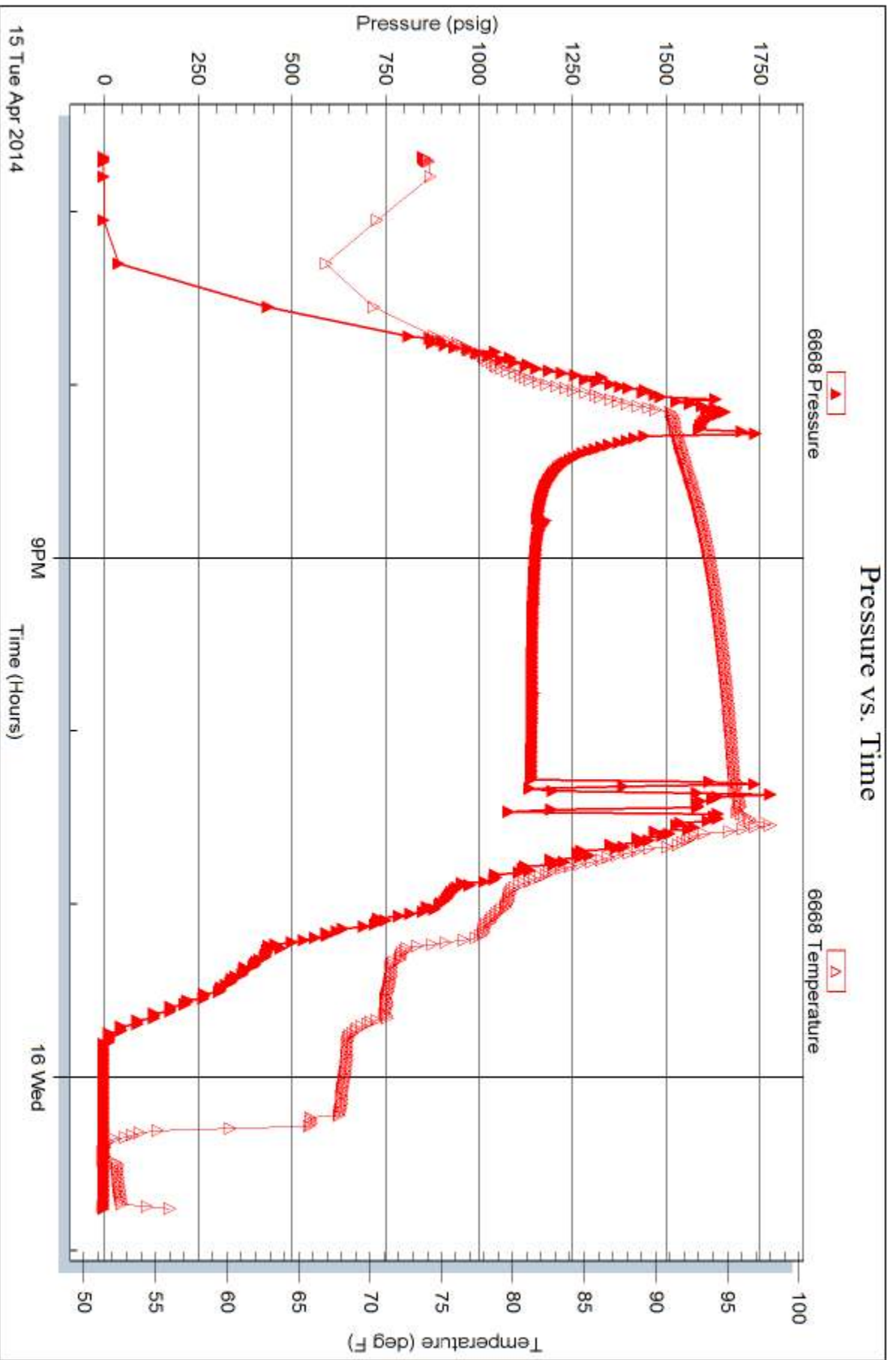


Serial #: 6668

Below (Straddle), Farmer Inc.

Stranger Valley #1

DST Test Number: 6



Trilobite Testing, Inc

Ref. No: 57592

Printed: 2014.04.16 @ 14:54:43

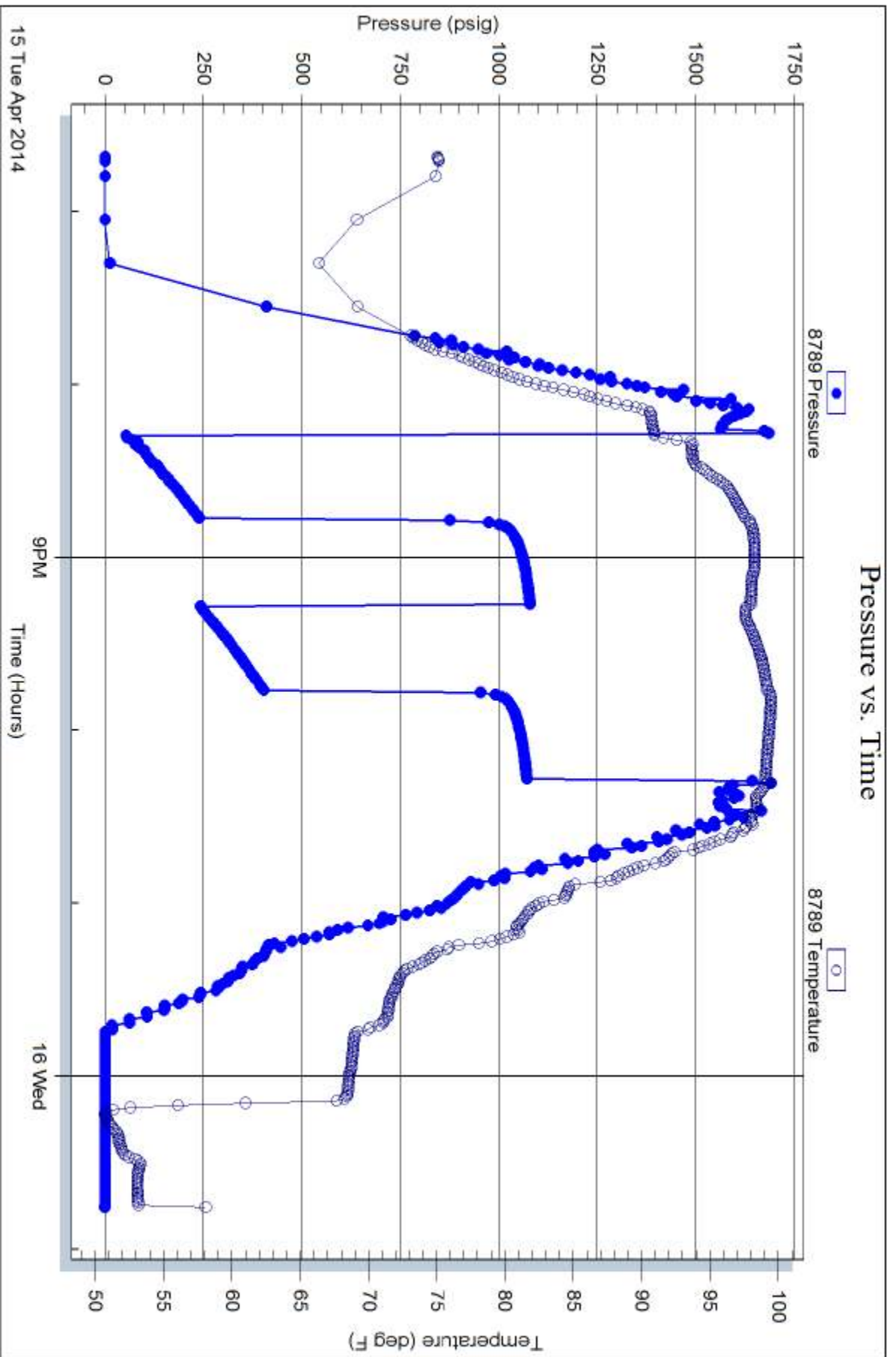
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Inside

John O. Farmer Inc.

Stranger Valley #1

DST Test Number: 6



Trilobite Testing, Inc

Ref. No: 57592

Printed: 2014.04.16 @ 14:54:43



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 57536

Well Name & No. STRANGE VALLEY #1 Test No. 1 Date 04/12/2014
 Company John O. Farmer Inc Elevation 1817 KB 1809 GL
 Address P.O. Box 352 Russell, KS 67665
 Co. Rep / Geo. Austin Klaus Rig Discovery #2
 Location: Sec. 31 Twp. 125 Rge. 14W Co. Russell State KS

Interval Tested 2969 - 3033 Zone Tested LKC A, B
 Anchor Length 64 Drill Pipe Run 2972 Mud Wt. 9.2
 Top Packer Depth 2965 Drill Collars Run 0 Vis 54
 Bottom Packer Depth 2969 Wt. Pipe Run 0 WL 8
 Total Depth 3033 Chlorides 4000 ppm System LCM 1.5#

Blow Description IFP - Blow built to 5in
ISI - DEAD NO blow back
FF - Blow built to 4in
FSI - DEAD NO blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>63</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 63 BHT _____ Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1457 Test 1150 T-On Location 1222
 (B) First Initial Flow 12 Jars _____ T-Started 1319
 (C) First Final Flow 25 Safety Joint _____ T-Open 1516
 (D) Initial Shut-In 350 Circ Sub _____ T-Pulled 1816
 (E) Second Initial Flow 29 Hourly Standby _____ T-Out 1942
 (F) Second Final Flow 43 Mileage 56 R/T 86.80 Comments _____
 (G) Final Shut-In 354 Sampler _____
 (H) Final Hydrostatic 1423 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1236.80
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1236.80

Approved By _____ Our Representative Jim Phillips

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. 57537

Well Name & No. STRANGER Valley #1 Test No. 2 Date 04/13/2014
 Company John O. Farmer Inc Elevation 1817 KB 1809 GL
 Address P.O. Box 352 Russell, KS 67465
 Co. Rep / Geo. Austin Klaus Rig Discovery #2
 Location: Sec. 31 Twp. 125 Rge. 14W Co. Russell State KS

Interval Tested 3035 - 3055 Zone Tested LKC C
 Anchor Length 20' Drill Pipe Run 3034 Mud Wt. 9.2
 Top Packer Depth 3031 Drill Collars Run 0 Vis 54
 Bottom Packer Depth 3035 Wt. Pipe Run 0 WL 8
 Total Depth 3055 Chlorides 4000 ppm System LCM 1.5"

Blow Description IFP - Blow built to 2.75 in
ISI - DEAD NO BLOW BACK
FF - Blow built to 2 in
FSI - DEAD NO BLOW BACK

Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>WCM</u>			<u>40</u>	<u>60</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

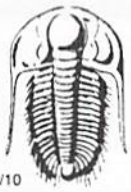
Rec Total _____ BHT _____ Gravity _____ API RW .33 @ 54 °F Chlorides 26,000 ppm

(A) Initial Hydrostatic 1522 Test 1150 T-On Location 0127
 (B) First Initial Flow 12 Jars _____ T-Started 0137
 (C) First Final Flow 18 Safety Joint _____ T-Open 0332
 (D) Initial Shut-In 356 Circ Sub _____ T-Pulled 0632
 (E) Second Initial Flow 22 Hourly Standby _____ T-Out 0833
 (F) Second Final Flow 31 Mileage 56 R/T 86.80 Comments _____
 (G) Final Shut-In 349 Sampler _____
 (H) Final Hydrostatic 1467 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1236.80
 Final Flow 60 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 60 Sub Total 1236.80

Approved By _____

Our Representative Tom Phillips

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. 57538

Well Name & No. Stranger Valley #1 Test No. 3 Date 04/13/2014
 Company John O. Farmer Inc Elevation 1817 KB 1809 GL
 Address P.O. Box 352 Russell, KS 67665
 Co. Rep / Geo. Austin Klaus Rig Discovery # 2
 Location: Sec. 31 Twp. 12S Rge. 14W Co. Russell State KS

Interval Tested 3060 - 3115 Zone Tested LKC E, F
 Anchor Length 55 Drill Pipe Run 3065 Mud Wt. 9.2
 Top Packer Depth 3056 Drill Collars Run 0 Vis 54
 Bottom Packer Depth 3060 Wt. Pipe Run 0 WL 8
 Total Depth 3115 Chlorides 5000 ppm System LCM 1.5#
 Blow Description IFP - Blow built to 7in
ISI - DEAD NO blow back
FF - Blow built to 6.25in
FSI - DEAD NO blow back

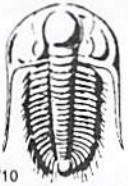
Rec	Feet of	%gas	%oil	%water	%mud
<u>150</u>	<u>mcw</u>			<u>70</u>	<u>30</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 150 BHT 91 Gravity — API RW .416 @ 34 °F Chlorides 30,000 ppm

(A) Initial Hydrostatic 1510 Test 1150 T-On Location 1615
 (B) First Initial Flow 14 Jars — T-Started 1616
 (C) First Final Flow 43 Safety Joint — T-Open 1814
 (D) Initial Shut-In 389 Circ Sub — T-Pulled 2114
 (E) Second Initial Flow 51 Hourly Standby — T-Out 2303
 (F) Second Final Flow 86 Mileage 56 R/T 86.80 Comments —
 (G) Final Shut-In 381 Sampler —
 (H) Final Hydrostatic 1483 Straddle — Ruined Shale Packer —
 Shale Packer — Ruined Packer —
 Extra Packer — Extra Copies —
 Extra Recorder — Sub Total 0
 Day Standby — Total 1236.80
 Accessibility — MP/DST Disc't —
 Sub Total 1236.80

Approved By _____ Our Representative Jim Phillips

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. 57590

Well Name & No. Stranger Valley #1 Test No. 4 Date 4-14-14
 Company John D. Farmer, Inc. Elevation 1817 KB 1809 GL
 Address P.O. Box 352 Russell KS. 67665
 Co. Rep / Geo. Austin Klaus Rig Discovery #2
 Location: Sec. 31 Twp. 12^s Rge. 14^w Co. Russell State KS

Interval Tested 3125-3252 Zone Tested L.R.C "H-L"
 Anchor Length 127 Drill Pipe Run 3128 Mud Wt. 9.2
 Top Packer Depth 3120 Drill Collars Run 0 Vis 58
 Bottom Packer Depth 3125 Wt. Pipe Run 0 WL 7.2
 Total Depth 3252 Chlorides 6000 ppm System LCM 1

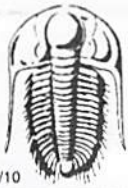
Blow Description IFP - Surface Blow Building to 2 in.
ISIP - No Blow
FFP - Surface Blow Building to 1 1/2 in.
FSIP - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</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 30 BHT 86 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1575 Test 1150 T-On Location 12:14
 (B) First Initial Flow 17 Jars _____ T-Started 14:36
 (C) First Final Flow 20 Safety Joint _____ T-Open 16:41
 (D) Initial Shut-In 200 Circ Sub _____ T-Pulled 18:41
 (E) Second Initial Flow 20 Hourly Standby _____ T-Out 21:17
 (F) Second Final Flow 24 Mileage 59 RT 86.80 Comments _____
 (G) Final Shut-In 198 Sampler _____
 (H) Final Hydrostatic 1499 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1236.80
 Final Flow 60 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 60 Sub Total 1236.80

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. 57591

Well Name & No. Stranger Valley #1 Test No. 5 Date 4-15-14
 Company John D. Farmer, Inc. Elevation 1817 KB 1809 GL
 Address P.O. Box 352 Russell KS 67665
 Co. Rep / Geo. Austin Klaus Rig Discovery #2
 Location: Sec. 31 Twp. 12^s Rge. 14^w Co. Russell State KS

Interval Tested 3246 - 3287 Zone Tested Arbuckle
 Anchor Length 41 Drill Pipe Run 3252 Mud Wt. 9.4
 Top Packer Depth 3246 Drill Collars Run 0 Vis 59
 Bottom Packer Depth 3287 Wt. Pipe Run 0 WL 8.0
 Total Depth 3350 Chlorides 6000 ppm System LCM 1

Blow Description IFP - Surface Blow Building to 5 1/4 in.
ISIP - No Blow.
FFP - Surface Blow Building to 8 1/2 in.
FSIP - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>92</u>	<u>100cm</u>	<u>10</u>	<u>2</u>	<u>88</u>	
<u>10</u>	<u>CO</u>	<u>100</u>			

Rec Total 102 BHT 94 Gravity 22 API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1678 Test 1150 T-On Location 10:58
 (B) First Initial Flow 16 Jars _____ T-Started 11:38
 (C) First Final Flow 32 Safety Joint _____ T-Open 13:16
 (D) Initial Shut-In 1084 Circ Sub _____ T-Pulled 16:16
 (E) Second Initial Flow 33 Hourly Standby _____ T-Out 18:08
 (F) Second Final Flow 60 Mileage 58.80 Comments _____
 (G) Final Shut-In 1097 Sampler _____
 (H) Final Hydrostatic 1651 Straddle 600 Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1836.80
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1836.80

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 57592

Well Name & No. Stranger Valley #1 Test No. 6 Date 4-15-14
 Company John O. Farmer Inc. Elevation 1817 KB 1809 GL
 Address P.O. Box 352 Russell KS 67665
 Co. Rep / Geo. Austin Klaus Rig Discovery #2
 Location: Sec. 31 Twp. 12^s Rge. 14^w Co. Russell State KS

Interval Tested 3245-3294 Zone Tested Arbuckle
 Anchor Length 49 Drill Pipe Run 3252 Mud Wt. 9.4
 Top Packer Depth 3245 Drill Collars Run 0 Vis 59
 Bottom Packer Depth 3294 Wt. Pipe Run 0 WL 8.0
 Total Depth 3350 Chlorides 6000 ppm System LCM 1

Blow Description IFP- BOB in 5min.
ISIP- No Blow
FFP- BOB in 5min.
FSIP- No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>313</u>	<u>0.5m CW</u>	<u>2</u>	<u>93</u>	<u>5</u>	
<u>375</u>	<u>0.5m CW</u>	<u>3</u>	<u>75</u>	<u>22</u>	
<u>155</u>	<u>0.5m</u>	<u>4</u>		<u>96</u>	

Rec Total 843 BHT 99 Gravity _____ API RW 577 @ 53 °F Chlorides 15000 ppm

(A) Initial Hydrostatic 1682 Test 1150 T-On Location 10:58
 (B) First Initial Flow 48 Jars _____ T-Started 18:41
 (C) First Final Flow 240 Safety Joint _____ T-Open 20:17
 (D) Initial Shut-In 1080 Circ Sub _____ T-Pulled 22:17
 (E) Second Initial Flow 242 Hourly Standby _____ T-Out 00:46
 (F) Second Final Flow 402 Mileage 58.80 Comments _____
 (G) Final Shut-In 1072 Sampler _____
 (H) Final Hydrostatic 1579 Straddle 600 Ruined Shale Packer _____

Initial Open 30 Shale Packer _____ Ruined Packer _____
 Initial Shut-In 30 Extra Packer _____ Extra Copies _____
 Final Flow 30 Extra Recorder _____ Sub Total 0
 Final Shut-In 30 Day Standby _____ Total 1836.80
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1836.80

Approved By _____ Our Representative [Signature]

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