



WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - _____

Spot Description: _____

_____-_____-_____- Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1099323

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other (Explain) _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	JAG Operations, Inc.
Well Name	Stranger Valley 1
Doc ID	1099323

Tops

Name	Top	Datum
Anhydrite	987	+940
Topeka	2819	-893
Heebner	3040	-1113
Toronto	3094	-1167
Lansing	3117	-1190
BKC	3340	-1413
Gorham Sand	3351	-1425
Arbuckle	3365	-1438
TD	3430	-1503

QUALITY WELL SERVICE, INC.

5617

Federal Tax I.D. # 481187368

Home Office 324 Simpson St., Pratt, KS 67124

Heath's Cell 620-727-3410
Office / Fax 620-672-3663

Rich's Cell 620-727-3409
Brady's Cell 620-727-6964

Date	8-6-12	Sec.	34	Twp.	13	Range	15	County	Russell	State	KS	On Location		Finish	10:00pm - 10:30pm			
Lease	Stranger valley		Well No.	1		Location	S W of Russell Winto											
Contractor	Southwind #2							Owner	To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.									
Type Job								Charge To	JAG Operations									
Hole Size	12 1/4		T.D.	212		Depth												
Csg.	8 5/8		Depth										Street	PO. Box 628				
Tbg. Size			Depth										City	Russell		State	Ks 67106-0628	
Tool			Depth										The above was done to satisfaction and supervision of owner agent or contractor.					
Cement Left in Csg.	15ft		Shoe Joint										Cement Amount Ordered	150sx com 3%CC 2%gel				
Meas Line			Displace	12.5														
EQUIPMENT																		
Pumptrk	No.	8		Cody		Common	150											
Bulktrk	No.	9		Heath		Poz. Mix												
Bulktrk	No.					Gel.	3											
Pickup	No.					Calcium	5											
JOB SERVICES & REMARKS																		
Rat Hole								Hulls										
Mouse Hole								Salt										
Centralizers								Flowseal										
Baskets								Kol-Seal										
D/V or Port Collar								Mud CLR 48										
Ran 5 JTS of 8 5/8 casing & landing JT							CFL-117 or CD110 CAF 38											
							Sand											
							Handling	158										
							Mileage	5										
Est Circulation with mud pump							FLOAT EQUIPMENT											
							Guide Shoe											
Hook up and mix 150sx and disp with 12.5661 H2O.							Centralizer											
							Baskets											
							AFU Inserts											
							Float Shoe											
							Latch Down											
Cement did circulate.																		
							Pumptrk Charge	Surface.										
							Mileage	5										
									Tax									
									Discount									
									Total Charge									
X Signature	William Anderson																	

ALLIED OIL & GAS SERVICES, LLC 053769

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Great Bend, KS

Stranger Valley

DATE <u>6-13-12</u>	SEC. <u>34</u>	TWP. <u>13</u>	RANGE <u>15W</u>	CALLED OUT	ON LOCATION	JOB START <u>4:30</u>	JOB FINISH <u>5:30 AM</u>
LEASE <u>Stranger Valley</u>	WELL# <u>1</u>	LOCATION <u>Russell, KS on farm Sino</u>			COUNTY <u>Russell</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>						2.03 8.3 all	

CONTRACTOR Spurthorn Drilling Rig #2 OWNER _____

TYPE OF JOB Rotary Plug

HOLE SIZE _____ T.D. _____

CASING SIZE 4 5/8 DEPTH _____

TUBING SIZE _____ DEPTH _____

DRILL PIPE 4 1/2 DEPTH 3348

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. A11

PERFS. _____

DISPLACEMENT Fresh water

CEMENT AMOUNT ORDERED <u>245 yds 60% class A</u>			
<u>40% part 4 1/2" 1/4 Flt - seal</u>			
COMMON <u>147</u>	@ <u>16.25</u>	<u>2,388.75</u>	
POZMIX <u>98</u>	@ <u>8.50</u>	<u>833.00</u>	
GEL <u>8</u>	@ <u>21.25</u>	<u>170.00</u>	
CHLORIDE _____	@ _____		
ASC _____	@ _____		
<u>2 1/2" seal 61</u>	@ <u>270</u>	<u>164.70</u>	
_____	@ _____		
_____	@ _____		
_____	@ _____		
_____	@ _____		
_____	@ _____		
_____	@ _____		
HANDLING <u>262.39</u>	@ <u>2.10</u>	<u>551.02</u>	
MILEAGE <u>10.96 x 64</u>	@ <u>2.35</u>	<u>154.88</u>	
		TOTAL <u>4,262.00</u>	

EQUIPMENT

PUMP TRUCK CEMENTER Dustin Chambers #394

HELPER John Campbell #3

BULK TRUCK DRIVER Kevin Weighous #2182/188

BULK TRUCK DRIVER _____

- REMARKS:
1. Fill hole with big mud
 2. 3348 ft - 25%
 3. 1015 ft - 25%
 4. 600 ft - 100%
 5. 260 ft - 40%
 6. 40 ft - 10%
 - RH. 30%
 - MH. 15%
 - Plug down 5:30 AM

CHARGE TO: Trug Operations INC

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB <u>3348</u>		
PUMP TRUCK CHARGE _____		<u>1250.00</u>
EXTRA FOOTAGE _____	@ _____	
MILEAGE <u>Hum 6</u>	@ <u>7.00</u>	<u>42.00</u>
MANIFOLD _____	@ _____	
<u>Hum 6</u>	@ <u>4.00</u>	<u>24.00</u>
_____	@ _____	
		TOTAL <u>1316.00</u>

PLUG & FLOAT EQUIPMENT

_____	@ _____	
_____	@ _____	
_____	@ _____	
_____	@ _____	
_____	@ _____	
		TOTAL _____

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME A William Sanders

SIGNATURE A William Sanders

Thank You!!

SALES TAX (If Any) <u>462.97</u>	
TOTAL CHARGES <u>5,578.00</u>	
DISCOUNT <u>20% 1,115.61</u>	IF PAID IN 30 DAYS
	<u>4,462.39</u>



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

JAG Operations, Inc.
 PO Box 628
 Russell, Ks 67665
 ATTN: Mike Bair

34-13-15 Russell, Ks
Stranger Valley #1
 Job Ticket: 49284 **DST#: 1**
 Test Start: 2012.08.10 @ 06:24:15

GENERAL INFORMATION:

Formation: **LKC "A-C"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:53:45
 Time Test Ended: 12:29:15
 Interval: **3070.00 ft (KB) To 3137.00 ft (KB) (TVD)**
 Total Depth: 3137.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Brian Fairbank
 Unit No: 41
 Reference Elevations: 1928.00 ft (KB)
 1920.00 ft (CF)
 KB to GR/CF: 8.00 ft

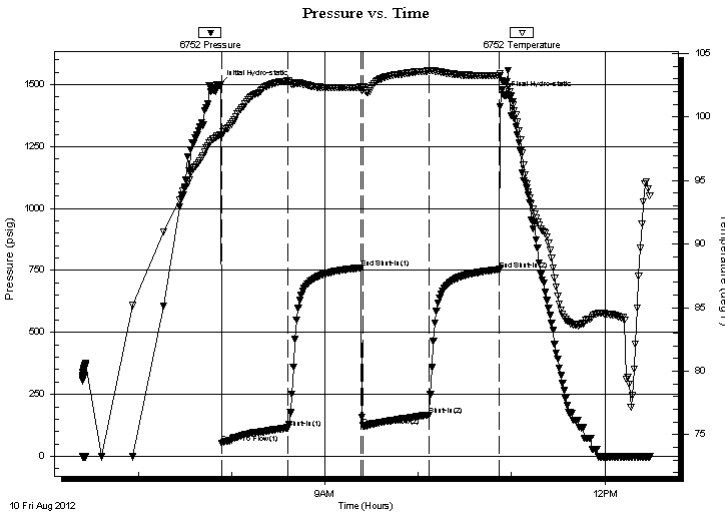
Serial #: 6752

Inside

Press @ Run Depth: 166.81 psig @ 3076.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.08.10 End Date: 2012.08.10 Last Calib.: 2012.08.10
 Start Time: 06:24:16 End Time: 12:29:15 Time On Btm: 2012.08.10 @ 07:52:15
 Time Off Btm: 2012.08.10 @ 10:55:15

TEST COMMENT: IFP - BOB 6 min
 ISI - 2 1/2" blow back - died 21 min
 FFP - BOB 5 min
 FSI - BOB 10 min

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1498.73	98.59	Initial Hydro-static
2	51.45	98.52	Open To Flow (1)
44	115.19	102.86	Shut-In(1)
91	761.35	102.36	End Shut-In(1)
92	122.79	102.36	Open To Flow (2)
135	166.81	103.66	Shut-In(2)
180	753.73	103.25	End Shut-In(2)
183	1457.38	102.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
125.00	SGOCWM 5%G, 5%O, 45%W, 45%M	1.75
30.00	SGO & WCM 40%G, 5%O, 5%W, 50%M	0.42
155.00	GOCM 60%G, 10%O, 30%M	2.17
0.00	1270' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

JAG Operations, Inc.

34-13-15 Russell, Ks

PO Box 628
Russell, Ks 67665

Stranger Valley #1

Job Ticket: 49284

DST#: 1

ATTN: Mike Bair

Test Start: 2012.08.10 @ 06:24:15

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:

49000 ppm

Viscosity: 80.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
125.00	SGOCWM 5%G, 5%O, 45%W, 45%M	1.753
30.00	SGO & WCM 40%G, 5%O, 5%W, 50%M	0.421
155.00	GOCM 60%G, 10%O, 30%M	2.174
0.00	1270' GIP	0.000

Total Length: 310.00 ft

Total Volume: 4.348 bbl

Num Fluid Samples: 0

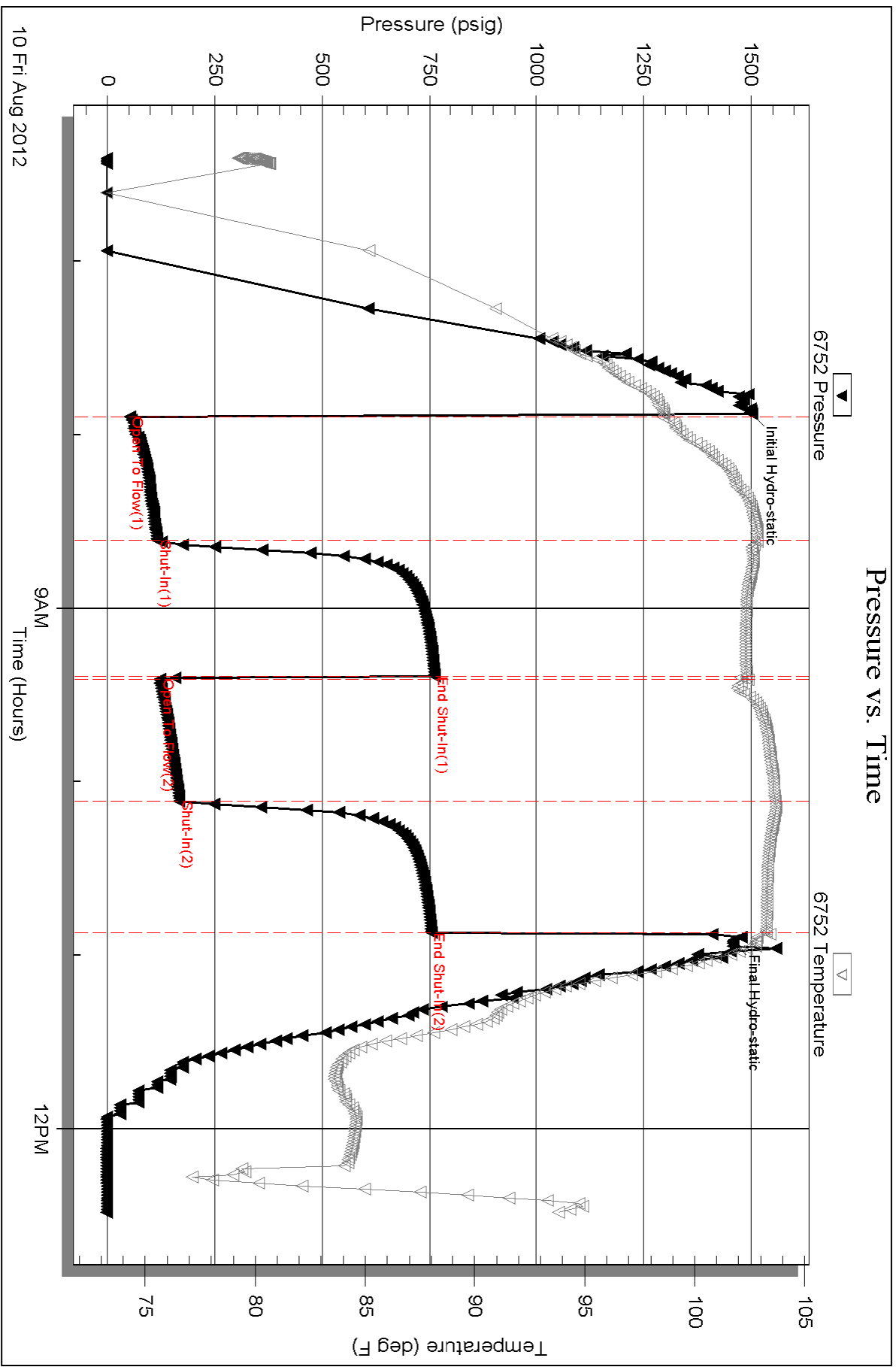
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

JAG Operations, Inc.
710 S. Front
PO Box 628
Russell, Ks 67665
ATTN: Mike Bair

34-13-15 Russell, Ks

Stranger Valley #1

Job Ticket: 49285

DST#: 2

Test Start: 2012.08.11 @ 01:57:44

GENERAL INFORMATION:

Formation: **LKC "H-J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:18:44

Time Test Ended: 07:35:14

Test Type: Conventional Bottom Hole (Reset)

Tester: Brian Fairbank

Unit No: 41

Interval: 3237.00 ft (KB) To 3286.00 ft (KB) (TVD)

Reference Elevations: 1928.00 ft (KB)

Total Depth: 3286.00 ft (KB) (TVD)

1920.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 6741 Outside

Press @ Run Depth: 34.61 psig @ 3245.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.11

End Date:

2012.08.11

Last Calib.:

2012.08.11

Start Time: 01:57:45

End Time:

07:35:14

Time On Btm:

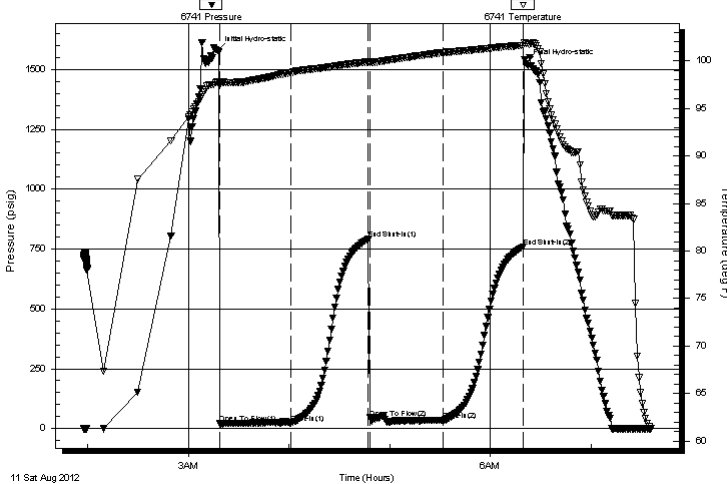
2012.08.11 @ 03:17:14

Time Off Btm:

2012.08.11 @ 06:21:14

TEST COMMENT: IFP - weak blow throughout sur - 2"
ISI - no blow back
FFP - weak to fair blow sur - 4 1/2"
FSI - no blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1578.97	97.78	Initial Hydro-static
2	20.09	97.60	Open To Flow (1)
44	22.85	98.78	Shut-In(1)
90	791.52	99.91	End Shut-In(1)
91	45.08	99.85	Open To Flow (2)
135	34.61	100.90	Shut-In(2)
182	758.65	101.65	End Shut-In(2)
184	1523.90	101.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	GOCM 5%G, 35%O, 60%M	0.56
0.00	60' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

JAG Operations, Inc.
710 S. Front
PO Box 628
Russell, Ks 67665
ATTN: Mike Bair

34-13-15 Russell, Ks
Stranger Valley #1
Job Ticket: 49285 **DST#: 2**
Test Start: 2012.08.11 @ 01:57:44

GENERAL INFORMATION:

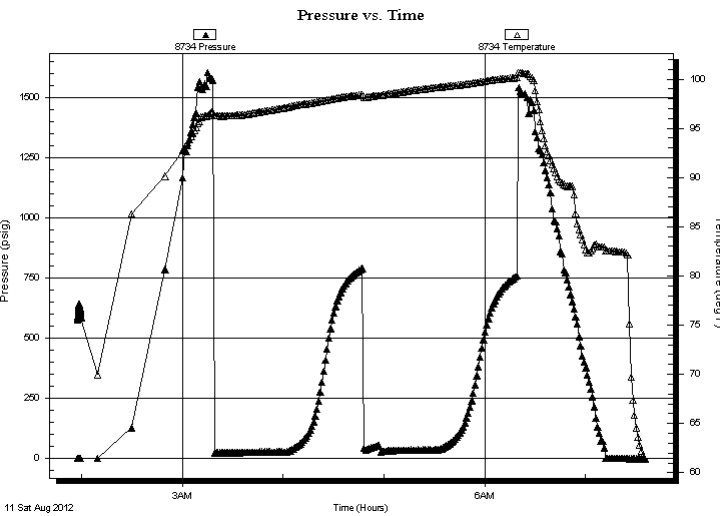
Formation: **LKC "H-J"**
 Deviated: **No** Whipstock: **ft (KB)** Test Type: **Conventional Bottom Hole (Reset)**
 Time Tool Opened: **03:18:44** Tester: **Brian Fairbank**
 Time Test Ended: **07:35:14** Unit No: **41**
Interval: 3237.00 ft (KB) To 3286.00 ft (KB) (TVD) Reference Elevations: **1928.00 ft (KB)**
 Total Depth: **3286.00 ft (KB) (TVD)** **1920.00 ft (CF)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good** KB to GR/CF: **8.00 ft**

Serial #: 8734

Inside

Press @ Run Depth: **psig @ 3245.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2012.08.11** End Date: **2012.08.11** Last Calib.: **2012.08.11**
 Start Time: **01:57:39** End Time: **07:35:38** Time On Btm:
 Time Off Btm:

TEST COMMENT: IFP - weak blow throughout sur - 2"
 ISI - no blow back
 FFP - weak to fair blow sur - 4 1/2"
 FSI - no blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
40.00	GOCM 5%G, 35%O, 60%M	0.56
0.00	60' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

JAG Operations, Inc.

34-13-15 Russell, Ks

710 S. Front
PO Box 628
Russell, Ks 67665
ATTN: Mike Bair

Stranger Valley #1

Job Ticket: 49285 **DST#: 2**

Test Start: 2012.08.11 @ 01:57:44

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: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.59 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

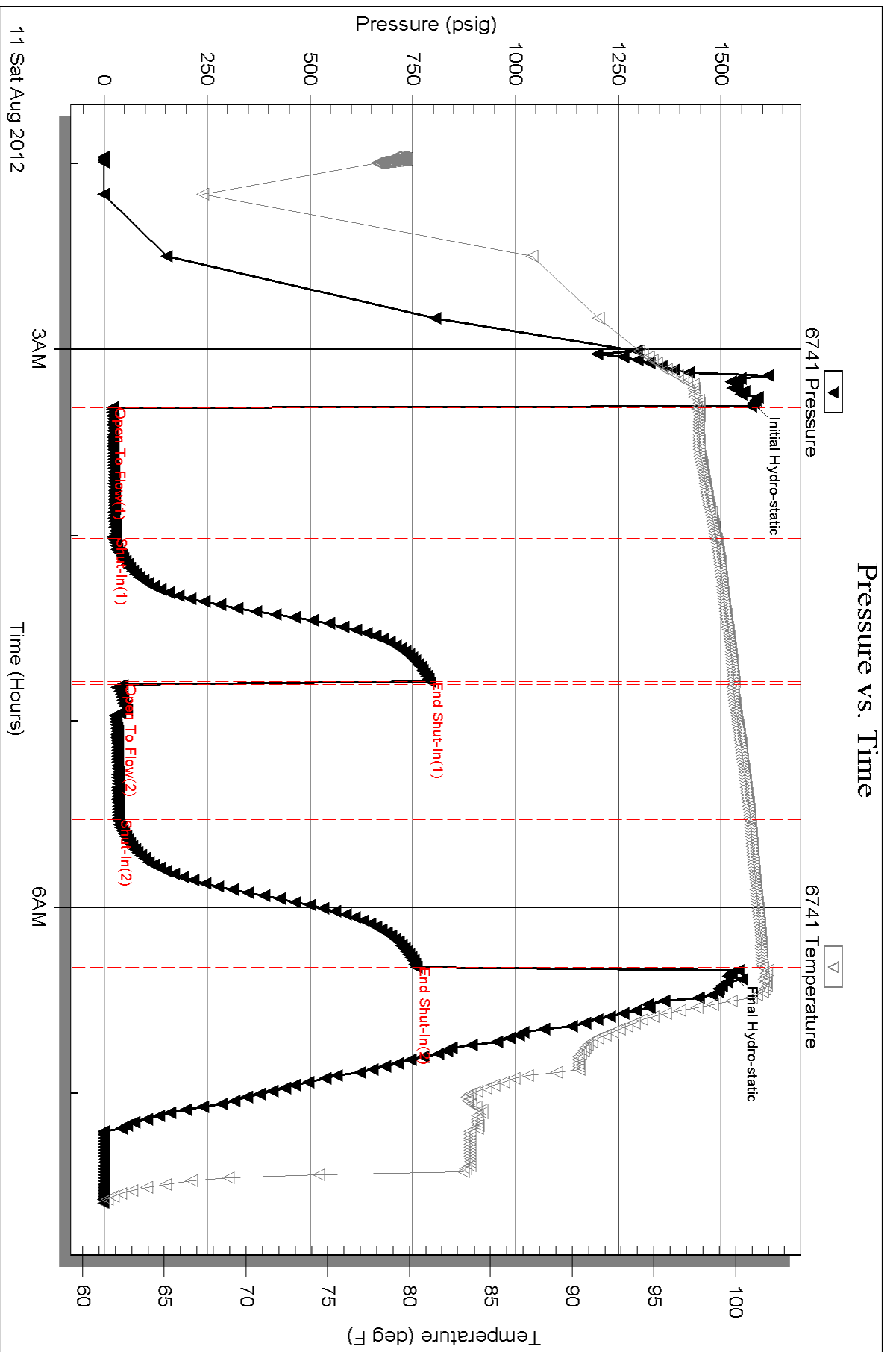
Length ft	Description	Volume bbl
40.00	GOCM 5%G, 35%O, 60%M	0.561
0.00	60' GIP	0.000

Total Length: 40.00 ft Total Volume: 0.561 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:



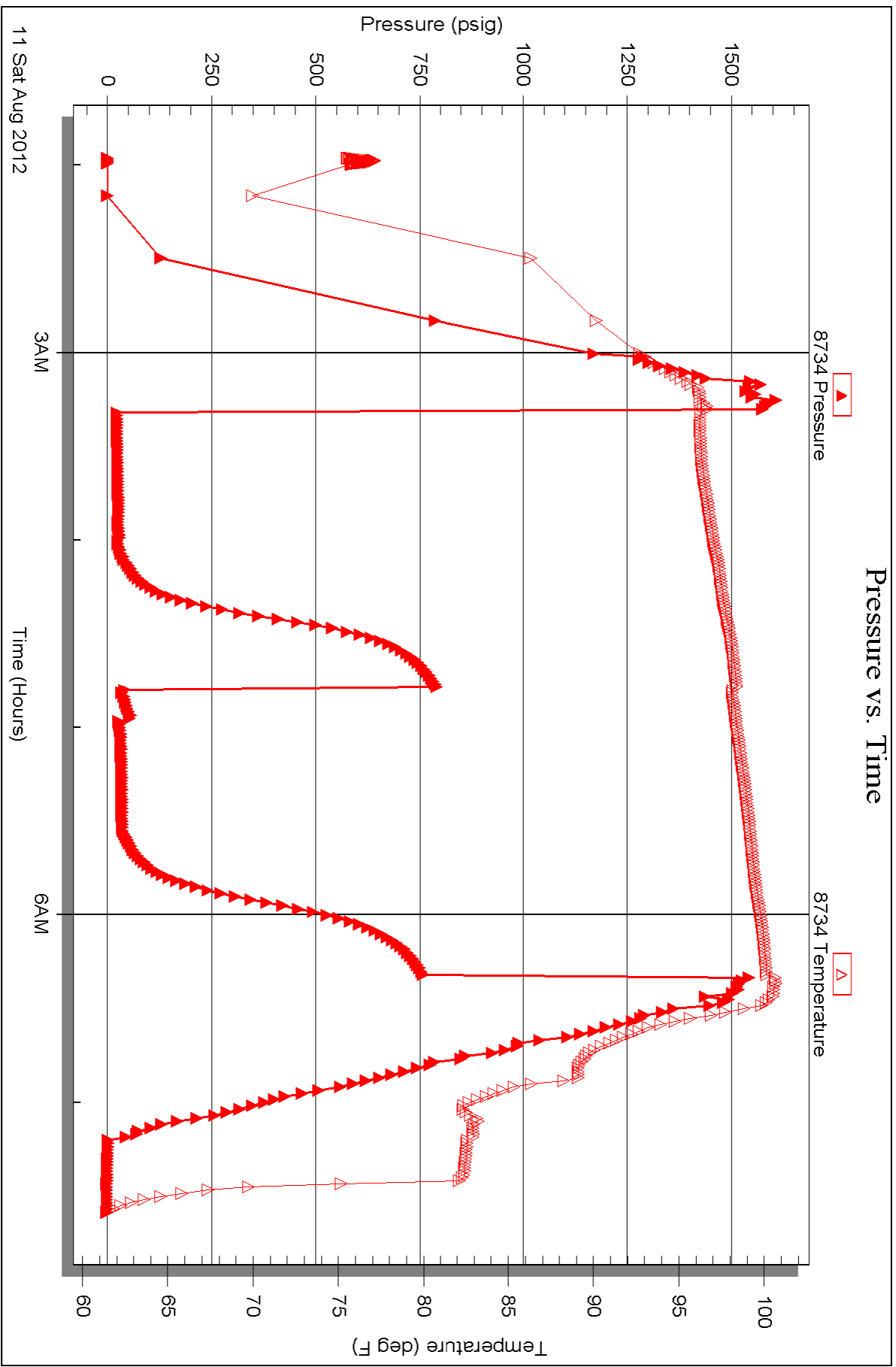
Serial #: 8734

Inside

JAG Operators, Inc.

Stranger Valley #1

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 49285

Printed: 2012.08.11 @ 09:02:19



DRILL STEM TEST REPORT

Prepared For: **JAG Operations, Inc.**

PO Box 628
Russell, KS 67665

ATTN: Mike Bair

Stranger Valley #1

34-13s-15w Russell, KS

Start Date: 2012.08.11 @ 20:01:02

End Date: 2012.08.11 @ 23:03:01

Job Ticket #: 49286 DST #: 3

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

Printed: 2012.08.15 @ 10:18:30



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

JAG Operations, Inc.

34-13s-15w Russell, KS

PO Box 628
Russell, KS 67665

Stranger Valley #1

Job Ticket: 49286

DST#: 3

ATTN: Mike Bair

Test Start: 2012.08.11 @ 20:01:02

GENERAL INFORMATION:

Formation: **Gorham Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended: 23:03:01

Test Type: Conventional Bottom Hole (Reset)

Tester: Brian Fairbank

Unit No: 41

Interval: 3346.00 ft (KB) To 3365.00 ft (KB) (TVD)

Reference Elevations: 1928.00 ft (KB)

Total Depth: 3365.00 ft (KB) (TVD)

1920.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 6752 Inside

Press @ Run Depth: psig @ 3347.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.11

End Date:

2012.08.11

Last Calib.:

1899.12.30

Start Time: 20:01:02

End Time:

23:03:01

Time On Btm:

2012.08.11 @ 21:27:01

Time Off Btm:

2012.08.11 @ 21:41:01

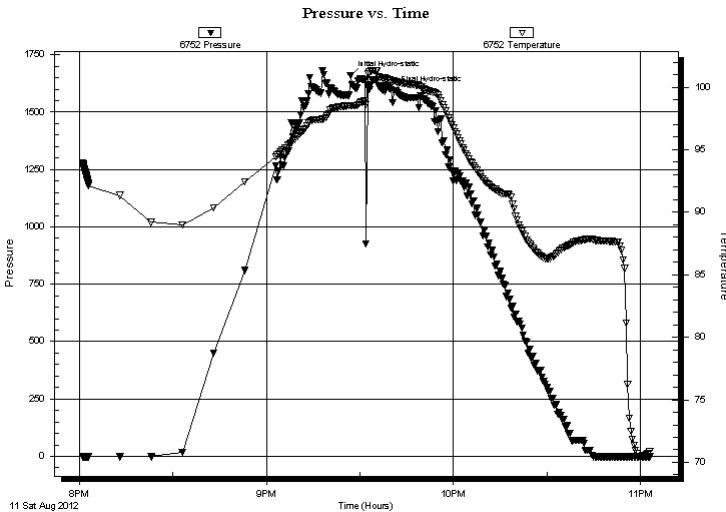
TEST COMMENT: IFP -

ISI - PACKER FAILURE

FFP -

FSI -

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1658.92	98.54	Initial Hydro-static
14	1594.93	100.55	Final Hydro-static

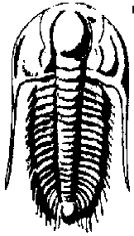
Recovery

Length (ft)	Description	Volume (bbl)

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

JAG Operations, Inc.

34-13s-15w Russell, KS

PO Box 628
Russell, KS 67665

Stranger Valley #1

Job Ticket: 49286

DST#: 3

ATTN: Mike Bair

Test Start: 2012.08.11 @ 20:01:02

GENERAL INFORMATION:

Formation: **Gorham Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended: 23:03:01

Test Type: Conventional Bottom Hole (Reset)

Tester: Brian Fairbank

Unit No: 41

Interval: 3346.00 ft (KB) To 3365.00 ft (KB) (TVD)

Reference Elevations: 1928.00 ft (KB)

Total Depth: 3365.00 ft (KB) (TVD)

1920.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 6741 Outside

Press @ Run Depth: psig @ 3347.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.11 End Date: 2012.08.11

Last Calib.: 2012.08.11

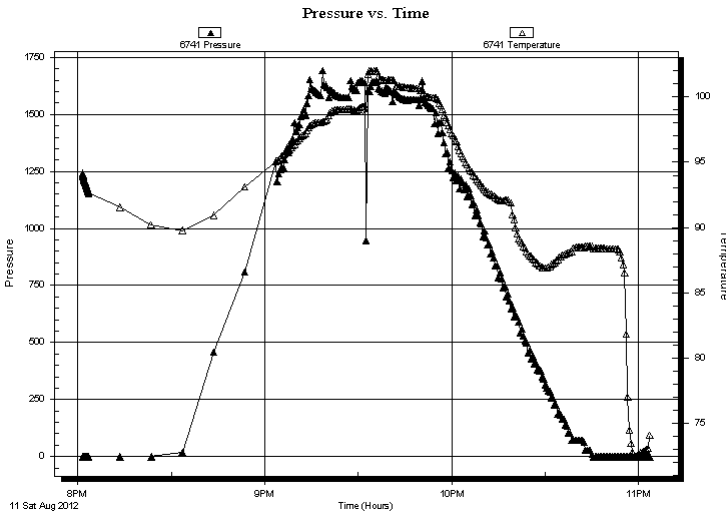
Start Time: 20:01:33 End Time: 23:03:32

Time On Btm:

Time Off Btm:

TEST COMMENT: IFP -
ISI - PACKER FAILURE
FFP -
FSI -

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

JAG Operations, Inc.

34-13s-15w Russell, KS

PO Box 628
Russell, KS 67665

Stranger Valley #1

Job Ticket: 49286

DST#: 3

ATTN: Mike Bair

Test Start: 2012.08.11 @ 20:01:02

Tool Information

Drill Pipe:	Length: 3323.00 ft	Diameter: 3.80 inches	Volume: 46.61 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: lb
			<u>Total Volume: 46.61 bbl</u>	Tool Chased: ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial lb
Depth to Top Packer:	3346.00 ft			Final lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 ft			
Tool Length:	46.00 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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Shut In Tool	5.00			3324.00	
Hydraulic tool	5.00			3329.00	
Jars	5.00			3334.00	
Safety Joint	2.00			3336.00	
Packer	5.00			3341.00	27.00 Bottom Of Top Packer
Packer	5.00			3346.00	
Stubb	1.00			3347.00	
Recorder	0.00	6752	Inside	3347.00	
Recorder	0.00	6741	Outside	3347.00	
Perforations	15.00			3362.00	
Bullnose	3.00			3365.00	19.00 Bottom Packers & Anchor

Total Tool Length: 46.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

JAG Operations, Inc.

34-13s-15w Russell, KS

PO Box 628
Russell, KS 67665

Stranger Valley #1

Job Ticket: 49286

DST#: 3

ATTN: Mike Bair

Test Start: 2012.08.11 @ 20:01:02

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: 42.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl

Total Length: ft Total Volume: bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

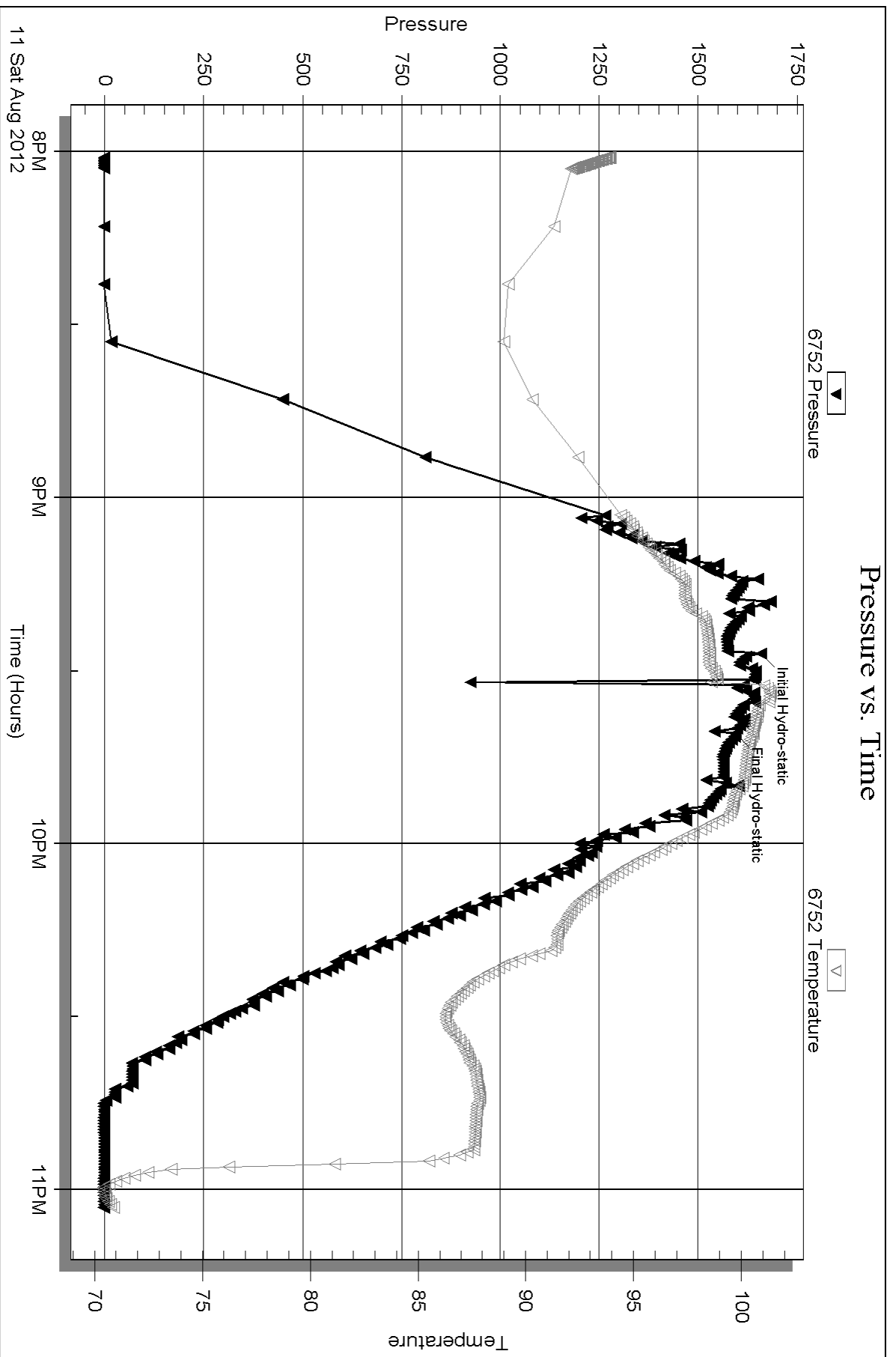
Serial #: 6752

Inside

JAG Operators, Inc.

Stranger Valley #1

DST Test Number: 3

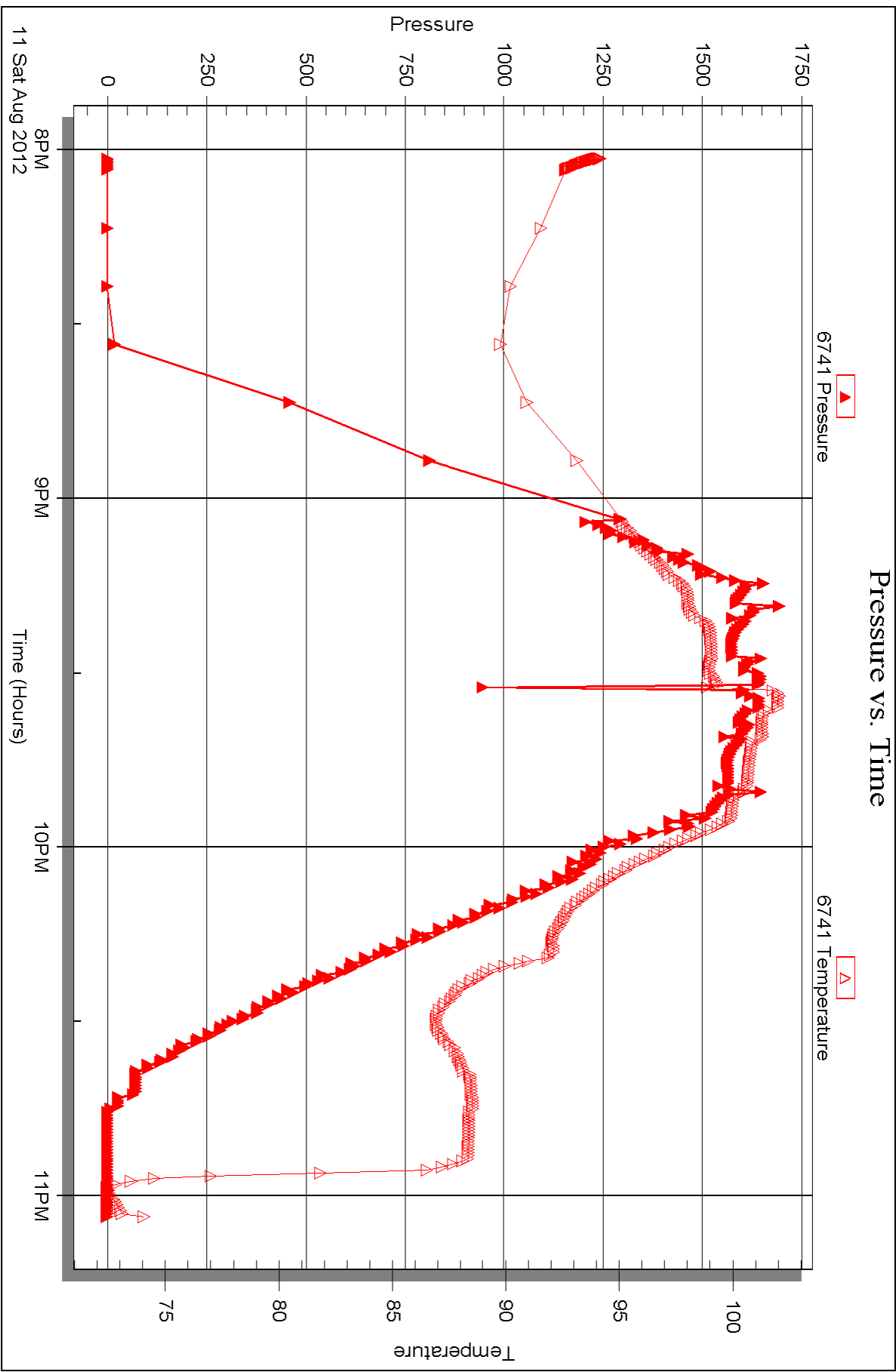


Serial #: 6741

Outside JAG Operators, Inc.

Stranger Valley #1

DST Test Number: 3





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

JAG Operations, Inc.

34-13-15 Russell, Ks

710 S. Front
PO Box 628
Russell, Ks 67665
ATTN: Mike Bair

Stranger Valley #1

Job Ticket: 49287

DST#: 4

Test Start: 2012.08.11 @ 23:13:01

GENERAL INFORMATION:

Formation: **Gorham Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:19:01

Time Test Ended: 03:36:31

Test Type: Conventional Bottom Hole (Reset)

Tester: Brian Fairbank

Unit No: 41

Interval: 3322.00 ft (KB) To 3365.00 ft (KB) (TVD)

Reference Elevations: 1928.00 ft (KB)

Total Depth: 3365.00 ft (KB) (TVD)

1920.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 6752 Inside

Press @ Run Depth: 20.05 psig @ 3326.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.11

End Date:

2012.08.12

Last Calib.:

2012.08.12

Start Time: 23:13:02

End Time:

03:36:31

Time On Btm:

2012.08.12 @ 00:18:01

Time Off Btm:

2012.08.12 @ 02:20:01

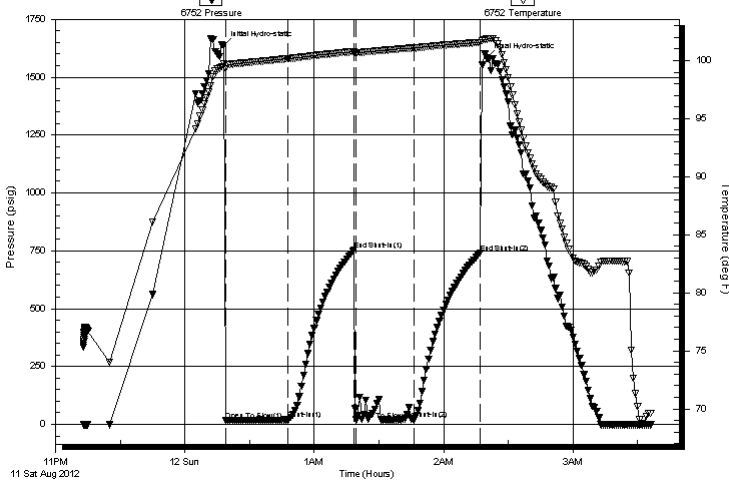
TEST COMMENT: IFP - 1/4" blow - died 10 min

ISI - no blow back

FFP - no blow

FSI - no blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1635.93	99.72	Initial Hydro-static
1	17.31	99.31	Open To Flow (1)
30	19.67	100.15	Shut-In(1)
61	753.48	100.77	End Shut-In(1)
62	19.54	100.64	Open To Flow (2)
88	20.05	101.07	Shut-In(2)
119	741.09	101.57	End Shut-In(2)
122	1582.85	101.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	SOCM 5%O, 95%M	0.04
3.00	FREE OIL 95%O, 5%M	0.04

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

JAG Operations, Inc.

34-13-15 Russell, Ks

710 S. Front
PO Box 628
Russell, Ks 67665
ATTN: Mike Bair

Stranger Valley #1

Job Ticket: 49287

DST#: 4

Test Start: 2012.08.11 @ 23:13:01

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

33 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 42.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
3.00	SOCM 5%O, 95%M	0.042
3.00	FREE OIL 95%O, 5%M	0.042

Total Length: 6.00 ft Total Volume: 0.084 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

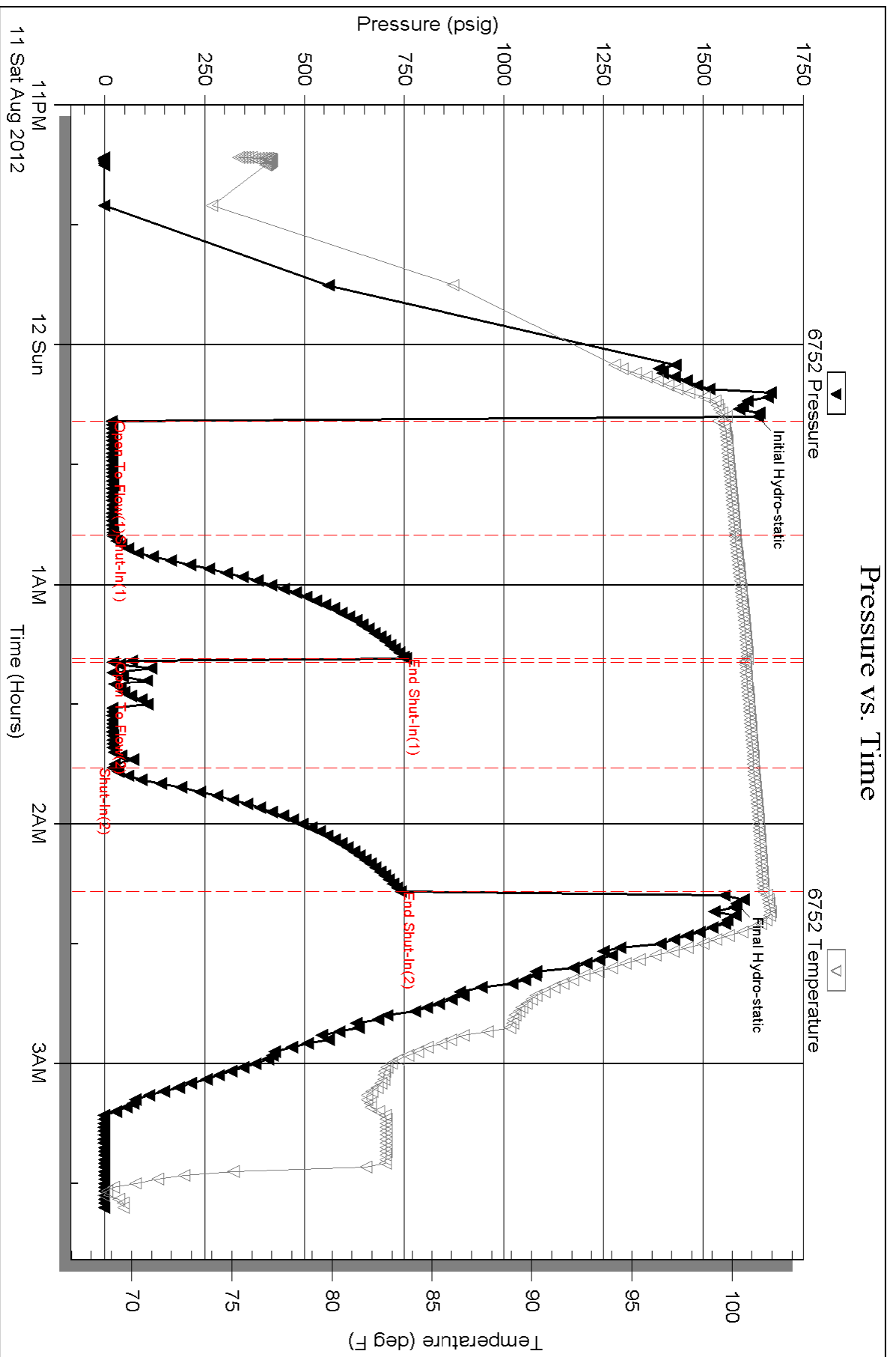
Serial #: 6752

Inside

JAG Operators, Inc.

Stranger Valley #1

DST Test Number: 4





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

JAG Operations, Inc.

34-13-15 Russell, Ks

710 S. Front
PO Box 628
Russell, Ks 67665
ATTN: Mike Bair

Stranger Valley #1

Job Ticket: 49288

DST#: 5

Test Start: 2012.08.12 @ 17:30:33

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:42:33

Time Test Ended: 23:28:33

Test Type: Conventional Straddle (Reset)

Tester: Brian Fairbank

Unit No: 41

Interval: 3370.00 ft (KB) To 3380.00 ft (KB) (TVD)

Reference Elevations: 1928.00 ft (KB)

Total Depth: 3430.00 ft (KB) (TVD)

1920.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 6752 Inside

Press @ Run Depth: 866.69 psig @ 3371.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.12

End Date: 2012.08.12

Last Calib.: 2012.08.12

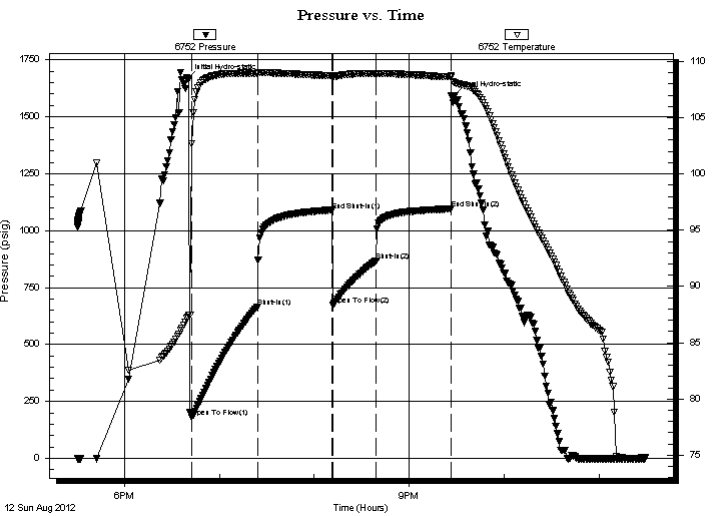
Start Time: 17:30:34

End Time: 23:28:33

Time On Btm: 2012.08.12 @ 18:40:03

Time Off Btm: 2012.08.12 @ 21:28:03

TEST COMMENT: IFP - BOB 2 min
ISI - no blow back
FFP - BOB 2 min
FSI - no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1669.39	87.29	Initial Hydro-static
3	180.47	102.69	Open To Flow (1)
44	666.17	108.94	Shut-In(1)
91	1088.96	108.74	End Shut-In(1)
92	671.72	108.66	Open To Flow (2)
119	866.69	108.90	Shut-In(2)
166	1095.65	108.62	End Shut-In(2)
168	1592.52	108.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MW 95%W, 5%M	1.68
1615.00	REVERSED OUT	22.65
155.00	MW 95%W, 5%M	2.17

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

JAG Operations, Inc.

34-13-15 Russell, Ks

710 S. Front
PO Box 628
Russell, Ks 67665
ATTN: Mike Bair

Stranger Valley #1

Job Ticket: 49288

DST#: 5

Test Start: 2012.08.12 @ 17:30:33

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:

26000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	MW 95%W, 5%M	1.683
1615.00	REVERSED OUT	22.654
155.00	MW 95%W, 5%M	2.174

Total Length: 1890.00 ft Total Volume: 26.511 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6752

Inside

JAG Operators, Inc.

Stranger Valley #1

DST Test Number: 5

