



DRILL STEM TEST REPORT

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

PO Box 352
Russell, KS 67665

ATTN: Austin Klaus

Johnson B #1

27-1s-18w Phillips,KS

Start Date: 2012.11.01 @ 13:51:30

End Date: 2012.11.01 @ 21:30:00

Job Ticket #: 48607 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.11.06 @ 14:25:08



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

John O. Farmer, Inc.

27-1s-18w Phillips,KS

PO Box 352
Russell, KS 67665

Johnson B #1

Job Ticket: 48607

DST#: 1

ATTN: Austin Klaus

Test Start: 2012.11.01 @ 13:51:30

GENERAL INFORMATION:

Formation: **LKC "C-D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:46:00

Time Test Ended: 21:30:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: 3354.00 ft (KB) To 3408.00 ft (KB) (TVD)

Reference Elevations: 2138.00 ft (KB)

Total Depth: 3408.00 ft (KB) (TVD)

2133.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8354

Inside

Press @ Run Depth: 101.67 psig @ 3393.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.11.01

End Date:

2012.11.01

Last Calib.:

2012.11.01

Start Time: 14:01:30

End Time:

21:30:00

Time On Btm:

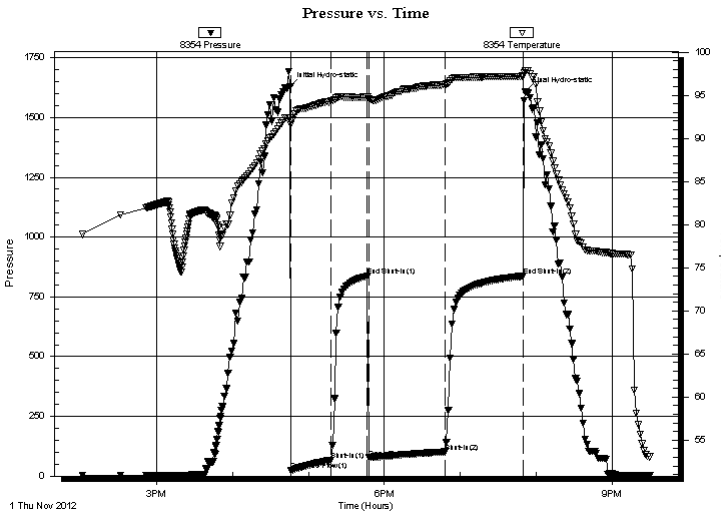
2012.11.01 @ 16:45:30

Time Off Btm:

2012.11.01 @ 19:51:30

TEST COMMENT: IF-Weak building blow . Built to 6 inches.
ISI-No Return.
FF-Weak building blow . Built to BOB in 42 minutes.
FSI-Return @ 13 minutes. Died @ 21 minutes 30 seconds.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1628.45	92.43	Initial Hydro-static
1	24.18	91.61	Open To Flow (1)
32	65.61	94.34	Shut-In(1)
61	837.20	94.77	End Shut-In(1)
62	76.89	94.59	Open To Flow (2)
123	101.67	96.24	Shut-In(2)
184	836.40	97.20	End Shut-In(2)
186	1608.82	97.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
215.00	55%Oil/45%Mud	1.89
0.00	62' G.I.P.	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O. Farmer, Inc.

27-1s-18w Phillips,KS

PO Box 352
Russell, KS 67665

Johnson B #1

Job Ticket: 48607

DST#: 1

ATTN: Austin Klaus

Test Start: 2012.11.01 @ 13:51:30

Tool Information

Drill Pipe:	Length: 3233.00 ft	Diameter: 3.80 inches	Volume: 45.35 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	22000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose:	5000.00 lb
			<u>Total Volume: 45.96 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial	47000.00 lb
Depth to Top Packer:	3354.00 ft			Final	47000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	54.00 ft				
Tool Length:	74.00 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			3335.00	
Shut In Tool	5.00			3340.00	
Hydraulic tool	5.00			3345.00	
Packer	5.00			3350.00	20.00 Bottom Of Top Packer
Packer	4.00			3354.00	
Stubb	1.00			3355.00	
Perforations	5.00			3360.00	
Change Over Sub	1.00			3361.00	
Drill Pipe	31.00			3392.00	
Change Over Sub	1.00			3393.00	
Recorder	0.00	8354	Inside	3393.00	
Recorder	0.00	8520	Outside	3393.00	
Perforations	12.00			3405.00	
Bullnose	3.00			3408.00	54.00 Bottom Packers & Anchor

Total Tool Length: 74.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O. Farmer, Inc.

27-1s-18w Phillips,KS

PO Box 352
Russell, KS 67665

Johnson B #1

Job Ticket: 48607

DST#: 1

ATTN: Austin Klaus

Test Start: 2012.11.01 @ 13:51:30

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: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
215.00	55%Oil/45%Mud	1.886
0.00	62' G.I.P.	0.000

Total Length: 215.00 ft Total Volume: 1.886 bbl

Num Fluid Samples: 0

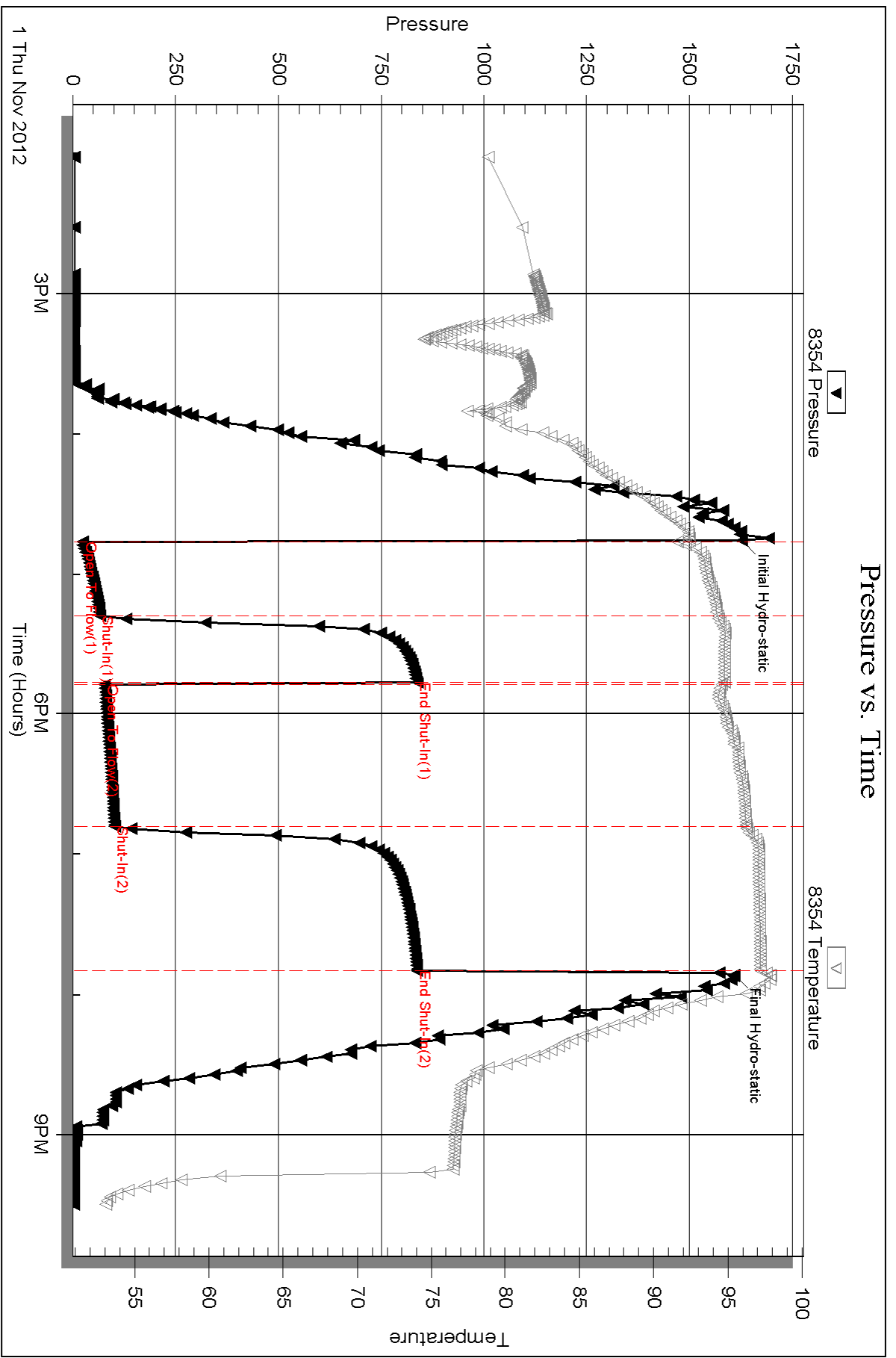
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

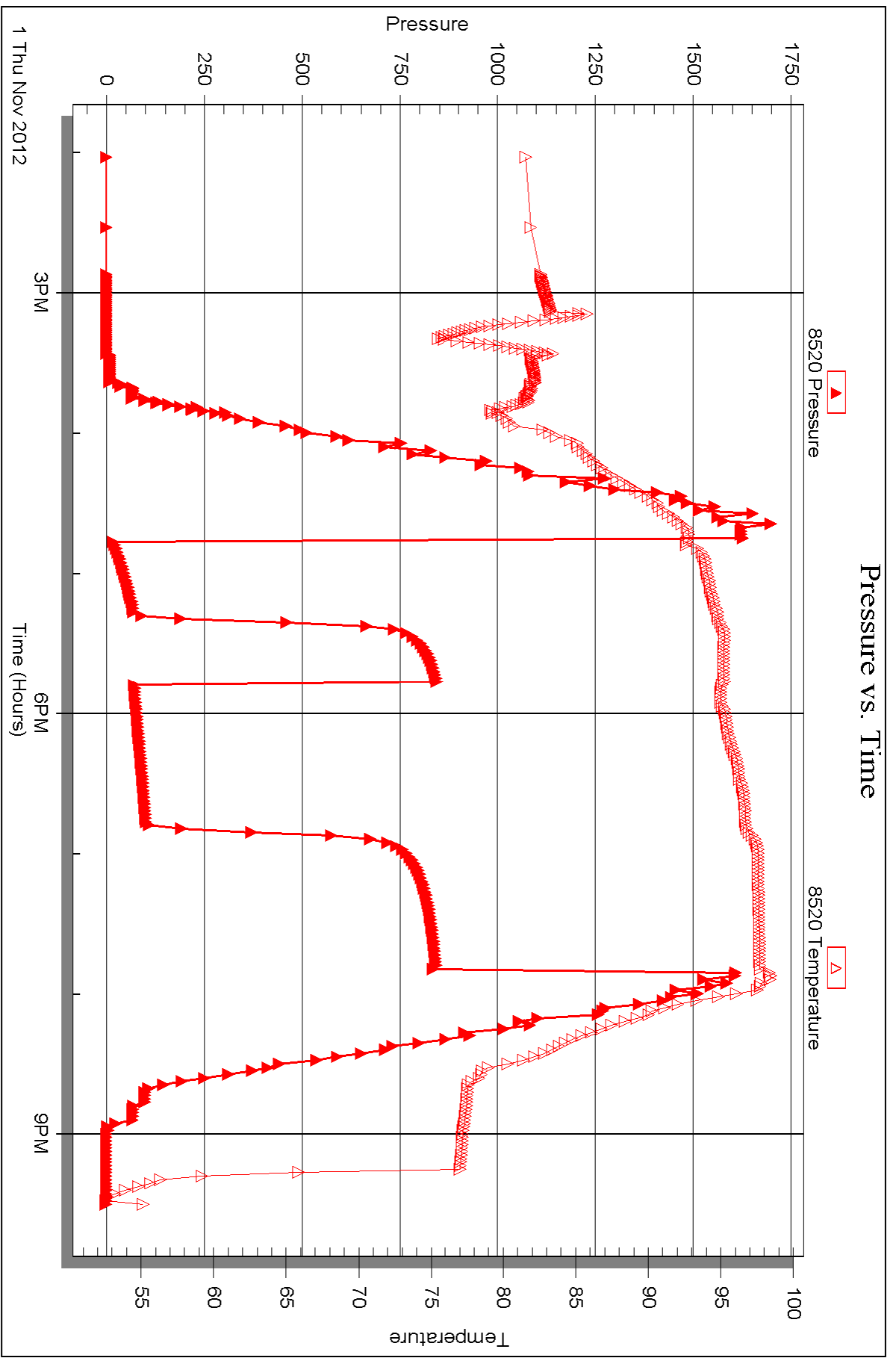


Serial #: 8520

Outside John O. Farmer, Inc.

Johnson B #1

DST Test Number: 1





DRILL STEM TEST REPORT

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

PO Box 352
Russell, KS 67665

ATTN: Austin Klaus

Johnson B #1

27-1s-18w Phillips,KS

Start Date: 2012.11.02 @ 03:47:30

End Date: 2012.11.02 @ 08:36:30

Job Ticket #: 48608 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.11.06 @ 14:24:23



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

John O. Farmer, Inc.

27-1s-18w Phillips,KS

PO Box 352
Russell, KS 67665

Johnson B #1

Job Ticket: 48608

DST#: 2

ATTN: Austin Klaus

Test Start: 2012.11.02 @ 03:47:30

GENERAL INFORMATION:

Formation: **LKC "E-F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:10:40

Time Test Ended: 08:36:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: 3405.00 ft (KB) To 3428.00 ft (KB) (TVD)

Reference Elevations: 2138.00 ft (KB)

Total Depth: 3428.00 ft (KB) (TVD)

2133.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8354

Inside

Press @ Run Depth: 24.19 psig @ 3408.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.11.02

End Date:

2012.11.02

Last Calib.:

2012.11.02

Start Time: 03:57:30

End Time:

08:36:30

Time On Btm:

2012.11.02 @ 05:10:30

Time Off Btm:

2012.11.02 @ 07:16:00

TEST COMMENT:

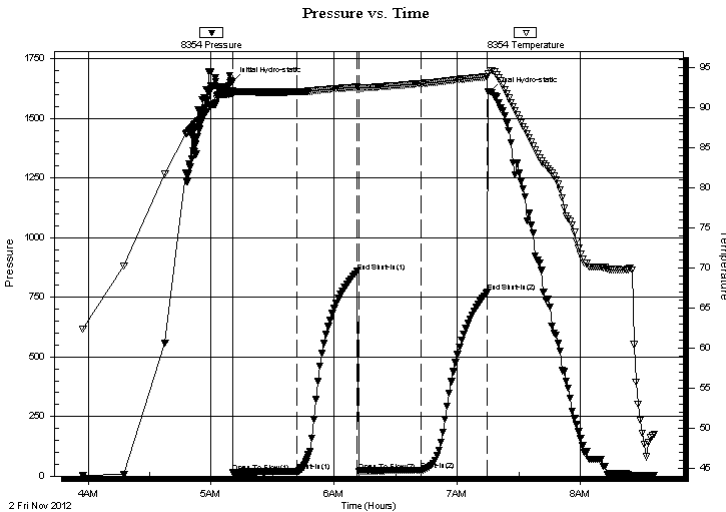
IF-Weak surface blow throughout.

ISI-No Return.

FF-Weak surface blow . Surging surface blow @ 9 minutes 30 seconds.

FSI-No Return.

PRESSURE SUMMARY



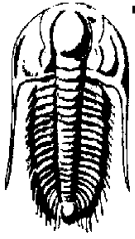
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1653.55	92.19	Initial Hydro-static
1	16.63	91.68	Open To Flow (1)
31	19.78	92.04	Shut-In(1)
61	857.20	92.63	End Shut-In(1)
62	21.21	92.51	Open To Flow (2)
92	24.19	93.06	Shut-In(2)
124	770.39	93.92	End Shut-In(2)
126	1611.67	94.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	1%Oil/99%Mud	0.05

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

John O. Farmer, Inc.

27-1s-18w Phillips, KS

PO Box 352
Russell, KS 67665

Johnson B #1

Job Ticket: 48608

DST#: 2

ATTN: Austin Klaus

Test Start: 2012.11.02 @ 03:47:30

GENERAL INFORMATION:

Formation: **LKC "E-F"**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 05:10:40

Time Test Ended: 08:36:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: 3405.00 ft (KB) To 3428.00 ft (KB) (TVD)

Reference Elevations: 2138.00 ft (KB)

Total Depth: 3428.00 ft (KB) (TVD)

2133.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8520 **Outside**

Press @ Run Depth: **psig @ 3408.00 ft (KB)**

Capacity: 8000.00 psig

Start Date: 2012.11.02

End Date:

2012.11.02

Last Calib.:

2012.11.02

Start Time: 03:57:45

End Time:

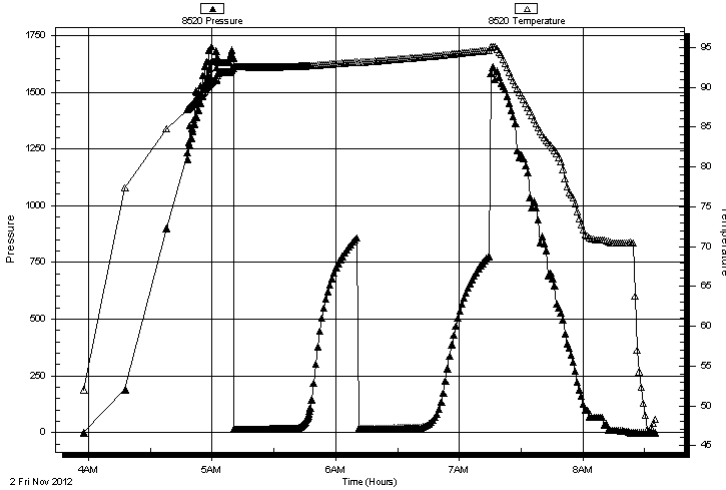
08:35:45

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-Weak surface blow throughout.
ISI-No Return.
FF-Weak surface blow . Surging surface blow @ 9 minutes 30 seconds.
FSI-No Return.

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	1%Oil/99%Mud	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O. Farmer, Inc.

27-1s-18w Phillips,KS

PO Box 352
Russell, KS 67665

Johnson B #1

Job Ticket: 48608

DST#: 2

ATTN: Austin Klaus

Test Start: 2012.11.02 @ 03:47:30

Tool Information

Drill Pipe:	Length: 3266.00 ft	Diameter: 3.80 inches	Volume: 45.81 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose:	5000.00 lb
			<u>Total Volume: 46.42 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	47000.00 lb
Depth to Top Packer:	3405.00 ft			Final	47000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	23.00 ft				
Tool Length:	43.00 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			3386.00	
Shut In Tool	5.00			3391.00	
Hydraulic tool	5.00			3396.00	
Packer	5.00			3401.00	20.00 Bottom Of Top Packer
Packer	4.00			3405.00	
Stubb	1.00			3406.00	
Perforations	2.00			3408.00	
Recorder	0.00	8354	Inside	3408.00	
Recorder	0.00	8520	Outside	3408.00	
Perforations	17.00			3425.00	
Bullnose	3.00			3428.00	23.00 Bottom Packers & Anchor

Total Tool Length: 43.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

John O. Farmer, Inc.

27-1s-18w Phillips,KS

PO Box 352
Russell, KS 67665

Johnson B #1

Job Ticket: 48608

DST#: 2

ATTN: Austin Klaus

Test Start: 2012.11.02 @ 03:47:30

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: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	1%Oil/99%Mud	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

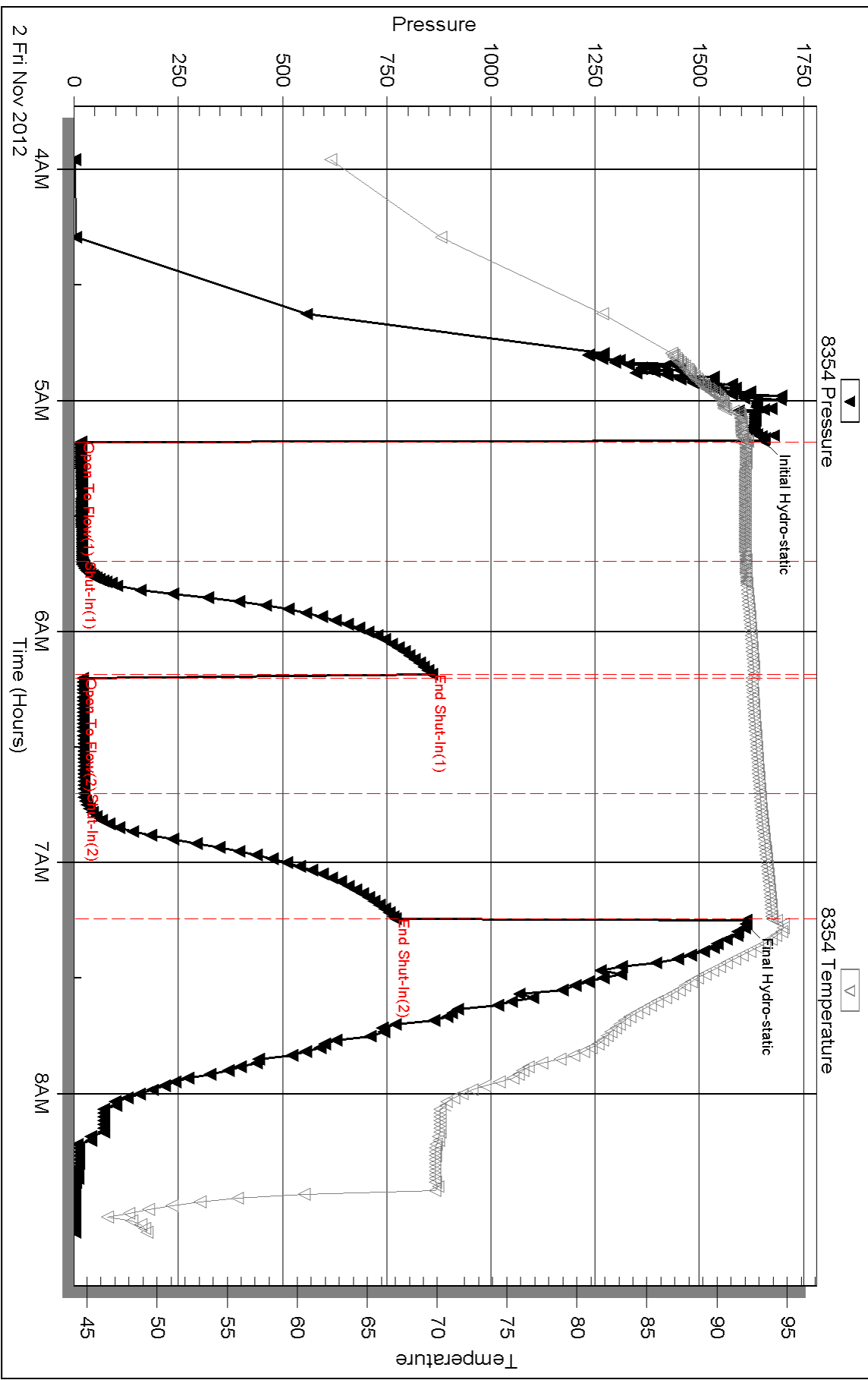
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

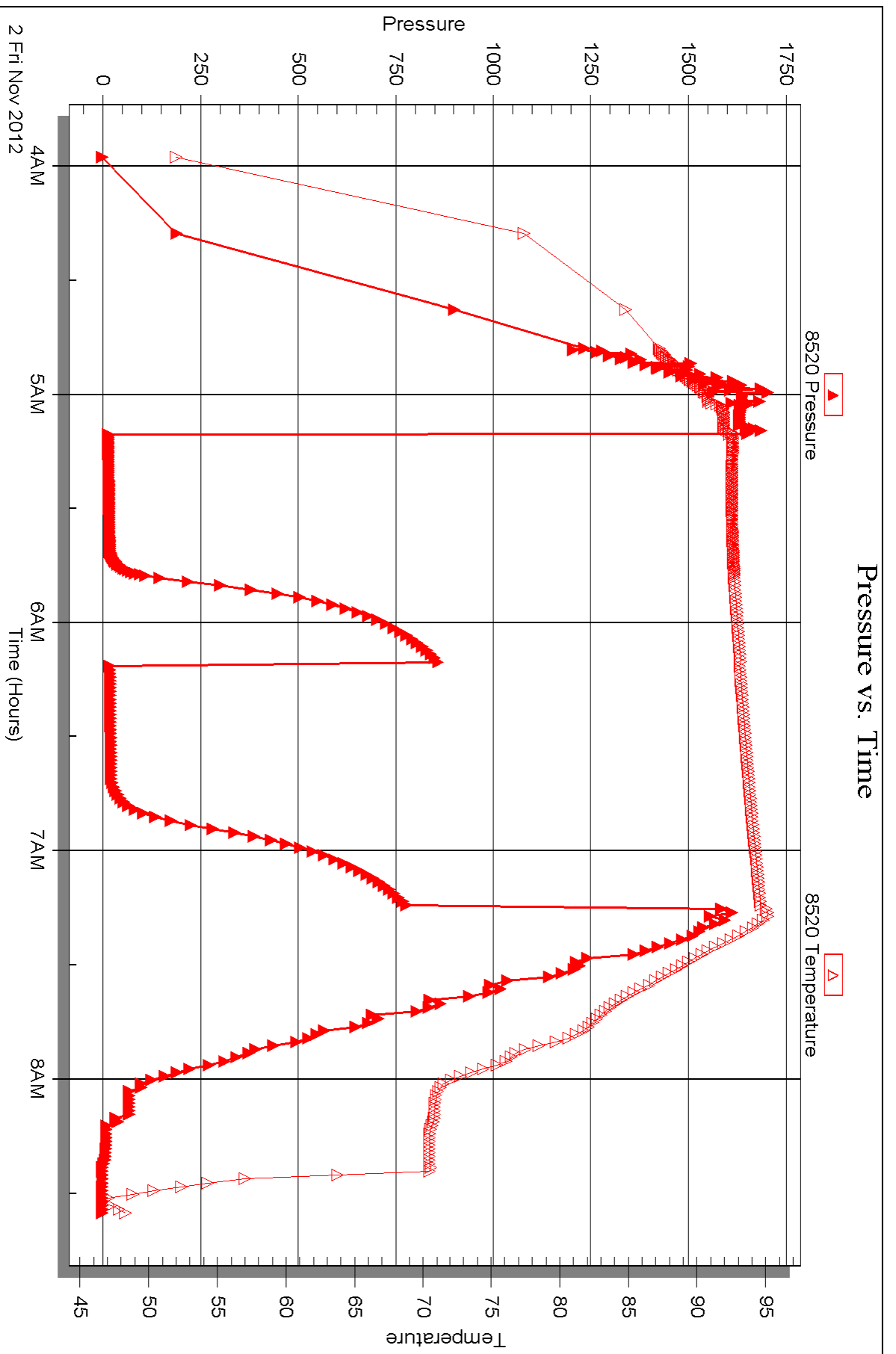


Serial #: 8520

Outside John O. Farmer, Inc.

Johnson B #1

DST Test Number: 2





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48607

Well Name & No. Johnson B#1 Test No. 1 Date 11-1-12
 Company John O. Farnel, Inc. Elevation 2138 KB 2138 GL
 Address P.O. Box 352 Russell, KS 67665
 Co. Rep / Geo. Austin Klaus Rig WW #8
 Location: Sec. 27 Twp. 1S Rge. 18W Co. Phillips State KS

Interval Tested 3354-3408 Zone Tested LKC "C-D"
 Anchor Length 54' Drill Pipe Run 3233 Mud Wt. 9.0
 Top Packer Depth 3349 Drill Collars Run 123,89 Vis 48
 Bottom Packer Depth 3354 Wt. Pipe Run 0 WL 6.8
 Total Depth 3408 Chlorides 500 ppm System LCM 2#

Blow Description IF - Weak building blow. Built to 6 inches.
ISI - No Return.

FF - Weak building blow. Built to BOB in 42 minutes.

FRT - Return @ 13 minutes. Dred @ 21 minutes 30 seconds.

Rec	Feet of	%gas	%oil	%water	%mud
<u>215</u>	<u>MCO</u>	<u>55</u>		<u>45</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 <u>62' G.F.P.</u>	%gas	%oil	%water	%mud

Rec Total 215 BHT 98 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1628 Test 1150 T-On Location 1300
 (B) First Initial Flow 24 Jars _____ T-Started 1500
 (C) First Final Flow 66 Safety Joint _____ T-Open 1646
 (D) Initial Shut-In 837 Circ Sub _____ T-Pulled 1950
 (E) Second Initial Flow 77 Hourly Standby _____ T-Out 2130
 (F) Second Final Flow 102 Mileage 80X2 248 Comments BHT-1351
 (G) Final Shut-In 836 Sampler _____
 (H) Final Hydrostatic 1609 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1398
 Accessibility _____ MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 30
 Final Flow 60
 Final Shut-In 60
 Sub Total 1398

Approved By _____ Our Representative D. Lash

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48608

Well Name & No. Johnson B #1 Test No. 2 Date 11-2-12
 Company John O. Farmer, Inc. Elevation 2138 KB 2133 GL
 Address P.O. Box 352 Russell, KS 67665
 Co. Rep / Geo. Austin Klaus Rig WW#8
 Location: Sec. 27 Twp. 15 Rge. 18W Co. Phillips State KS

Interval Tested 3405 - 3428 Zone Tested LKC "E-F"
 Anchor Length 23' Drill Pipe Run 3366 Mud Wt. 9.0
 Top Packer Depth 3400 Drill Collars Run 123.89 Vis 48
 Bottom Packer Depth 3405 Wt. Pipe Run 0 WL 6.8
 Total Depth 3428 Chlorides 500 ppm System LCM 2#

Blow Description TF-Weak surface blow throughout.
ISI - No Return.
FF-Weak surface blow. Surging surface blow @ 9 minutes 30 seconds
FST - No Return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Mud w/ oil spots</u>		<u>1</u>		<u>99</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 10 BHT 95 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1654 Test 1150 T-On Location 0315
 (B) First Initial Flow 17 Jars T-Started 0345
 (C) First Final Flow 20 Safety Joint T-Open 0510
 (D) Initial Shut-In 857 Circ Sub T-Pulled 0715
 (E) Second Initial Flow 21 Hourly Standby T-Out 0830
 (F) Second Final Flow 24 Mileage 80XZ 248 Comments BATT-0347
 (G) Final Shut-In 770 Sampler
 (H) Final Hydrostatic 1612 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies
 Extra Recorder Sub Total 0
 Day Standby Total 1398
 Accessibility MP/DST Disc't
 Sub Total 1398

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.