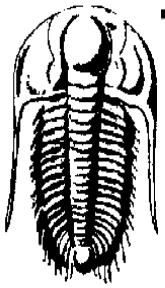


TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

PO Box 352
Russell, KS 67665

ATTN: Austin Klaus

Waugh B #2

18-15s-12w Wabaunsee,KS

Start Date: 2012.06.27 @ 07:46:09
End Date: 2012.06.27 @ 14:59:09
Job Ticket #: 47408 DST #: 1

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

Printed: 2012.07.05 @ 11:14:59

DRILL STEM TEST REPORT

John O Farmer Inc

PO Box 352
Russell, KS 67665

ATTN: Austin Klaus

18-15s-12w Wabaunsee,KS

Waugh B #2

Job Ticket: 47408 **DST#: 1**

Test Start: 2012.06.27 @ 07:46:09

GENERAL INFORMATION:

Formation: **Simpson Sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:41:09
Time Test Ended: 14:59:09

Test Type: Conventional Bottom Hole (Initial)
Tester: Brian Fairbank
Unit No: 41

Interval: 2990.00 ft (KB) To 3015.00 ft (KB) (TVD)
Total Depth: 3015.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

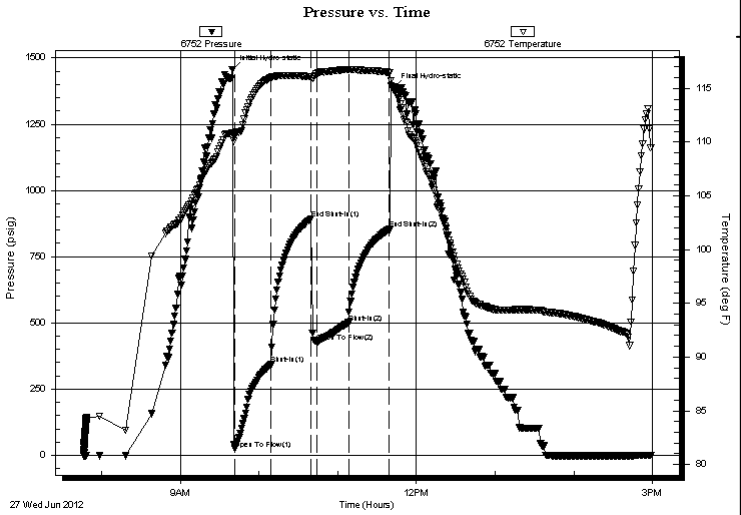
Reference Elevations: 1313.00 ft (KB)
1305.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6752 **Inside**

Press@RunDepth: 500.59 psig @ 2997.00 ft (KB)
Start Date: 2012.06.27 End Date: 2012.06.27
Start Time: 07:46:10 End Time: 14:59:09

Capacity: 8000.00 psig
Last Calib.: 2012.06.27
Time On Btm: 2012.06.27 @ 09:39:39
Time Off Btm: 2012.06.27 @ 11:43:09

TEST COMMENT: IFP - BOB 7 min
ISI - no blow back
FFP - BOB 2 min
FSI - no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1456.99	110.90	Initial Hydro-static
2	24.60	110.64	Open To Flow (1)
30	342.75	116.01	Shut-In(1)
60	891.75	116.07	End Shut-In(1)
64	428.83	116.33	Open To Flow (2)
89	500.59	116.76	Shut-In(2)
120	853.84	116.50	End Shut-In(2)
124	1388.90	114.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
820.00	Sand CO 75%O, 15%S	8.05
105.00	OCM 15%O, 85%M	1.47
0.00	60' GIP	0.00

Gas Rates

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

DRILL STEM TEST REPORT

John O Farmer Inc

PO Box 352
Russell, KS 67665

ATTN: Austin Klaus

18-15s-12w Wabaunsee,KS

Waugh B #2

Job Ticket: 47408 **DST#: 1**

Test Start: 2012.06.27 @ 07:46:09

GENERAL INFORMATION:

Formation: **Simpson Sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:41:09
Time Test Ended: 14:59:09

Test Type: Conventional Bottom Hole (Initial)
Tester: Brian Fairbank
Unit No: 41

Interval: 2990.00 ft (KB) To 3015.00 ft (KB) (TVD)
Total Depth: 3015.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

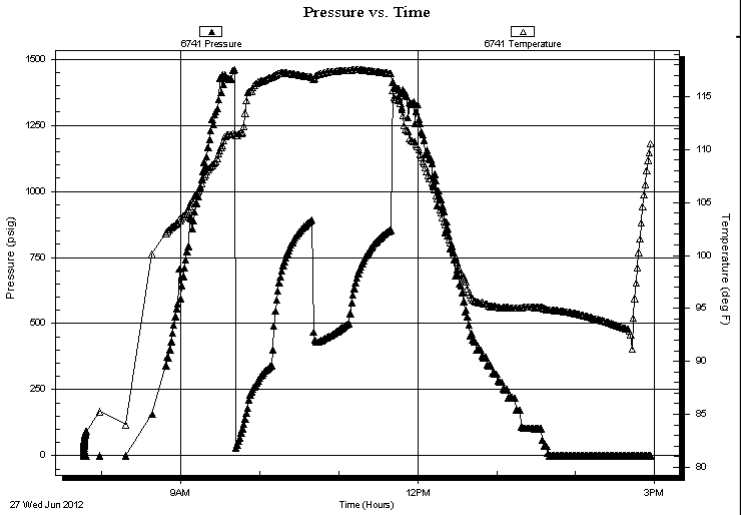
Reference Elevations: 1313.00 ft (KB)
1305.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6741 **Outside**

Press@RunDepth: psig @ 2997.00 ft (KB)
Start Date: 2012.06.27 End Date: 2012.06.27
Start Time: 07:46:22 End Time: 14:56:51

Capacity: 8000.00 psig
Last Calib.: 2012.06.27
Time On Btm:
Time Off Btm:

TEST COMMENT: IFP - BOB 7 min
ISI - no blow back
FFP - BOB 2 min
FSI - no blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
820.00	Sand CO 75%O, 15%S	8.05
105.00	OCM 15%O, 85%M	1.47
0.00	60' GIP	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc

PO Box 352
Russell, KS 67665

ATTN: Austin Klaus

18-15s-12w Wabaunsee,KS

Waugh B #2

Job Ticket: 47408 **DST#: 1**

Test Start: 2012.06.27 @ 07:46:09

Tool Information

Drill Pipe:	Length:	2613.00 ft	Diameter:	3.80	inches	Volume:	36.65	bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00	inches	Volume:	0.00	bbl	
Drill Collar:	Length:	379.00 ft	Diameter:	2.25	inches	Volume:	1.86	bbl	
						Total Volume:	38.51	bbl	

Drill Pipe Above KB:	22.00 ft
Depth to Top Packer:	2990.00 ft
Depth to Bottom Packer:	ft
Interval between Packers:	30.00 ft
Tool Length:	50.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:	2500.00 lb
Weight set on Packer:	25000.00 lb
Weight to Pull Loose:	72000.00 lb
Tool Chased	0.00 ft
String Weight: Initial	57000.00 lb
Final	63000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			2975.00		
Hydraulic tool	5.00			2980.00		
Packer	5.00			2985.00	20.00	Bottom Of Top Packer
Packer	5.00			2990.00		
Stubb	1.00			2991.00		
Perforations	6.00			2997.00		
Recorder	0.00	6752	Inside	2997.00		
Recorder	0.00	6741	Outside	2997.00		
Perforations	20.00			3017.00		
Bullnose	3.00			3020.00	30.00	Bottom Packers & Anchor
Total Tool Length:	**50.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

PO Box 352
Russell, KS 67665

ATTN: Austin Klaus

18-15s-12w Wabaunsee,KS

Waugh B #2

Job Ticket: 47408 **DST#: 1**

Test Start: 2012.06.27 @ 07:46:09

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	21 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	46.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.59 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	600.00 ppm				
Filter Cake:	inches				

Recovery Information

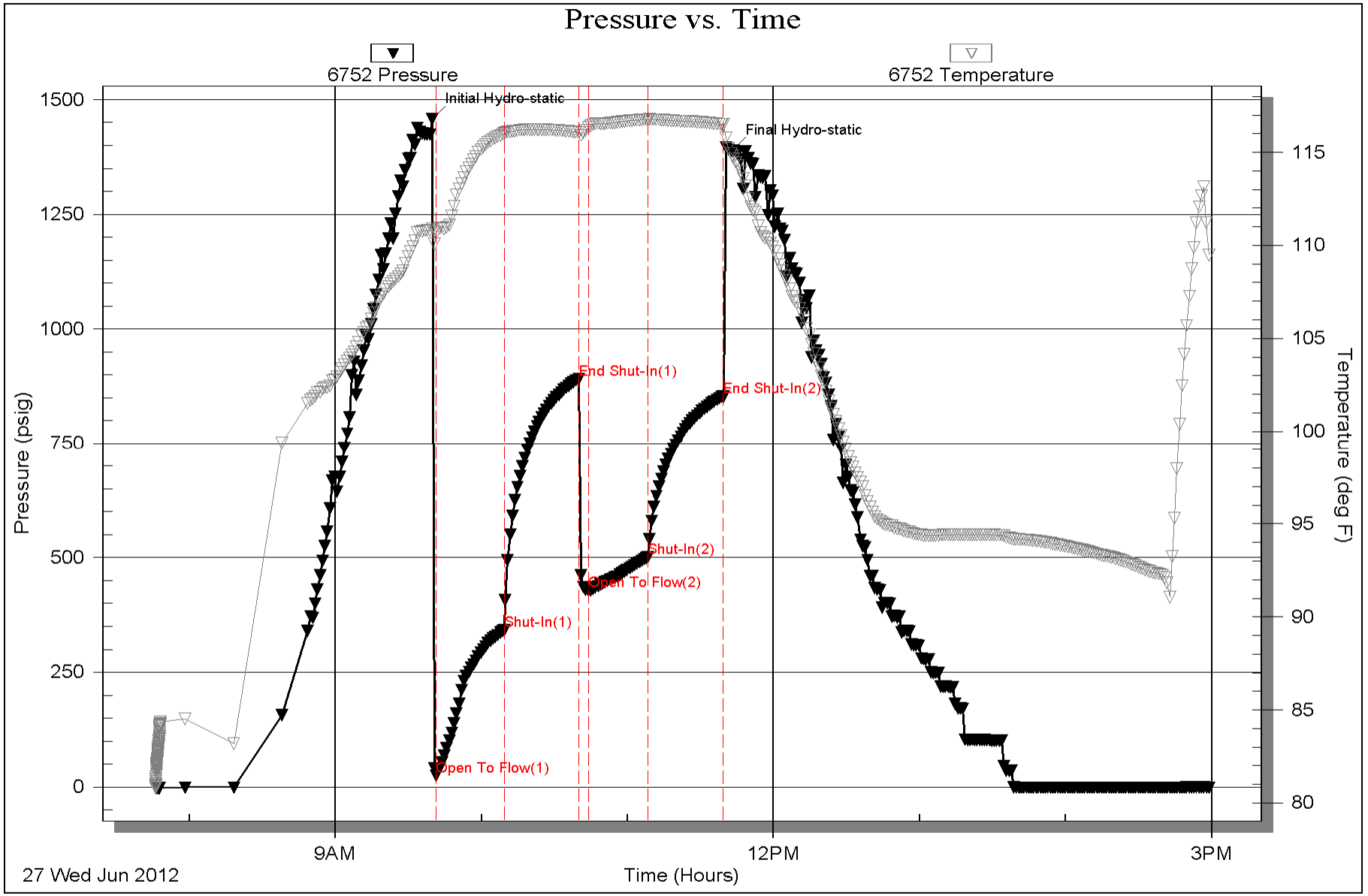
Recovery Table

Length ft	Description	Volume bbl
820.00	Sand CO 75%O, 15%S	8.050
105.00	OCM 15%O, 85%M	1.473
0.00	60' GIP	0.000

Total Length: 925.00 ft Total Volume: 9.523 bbl

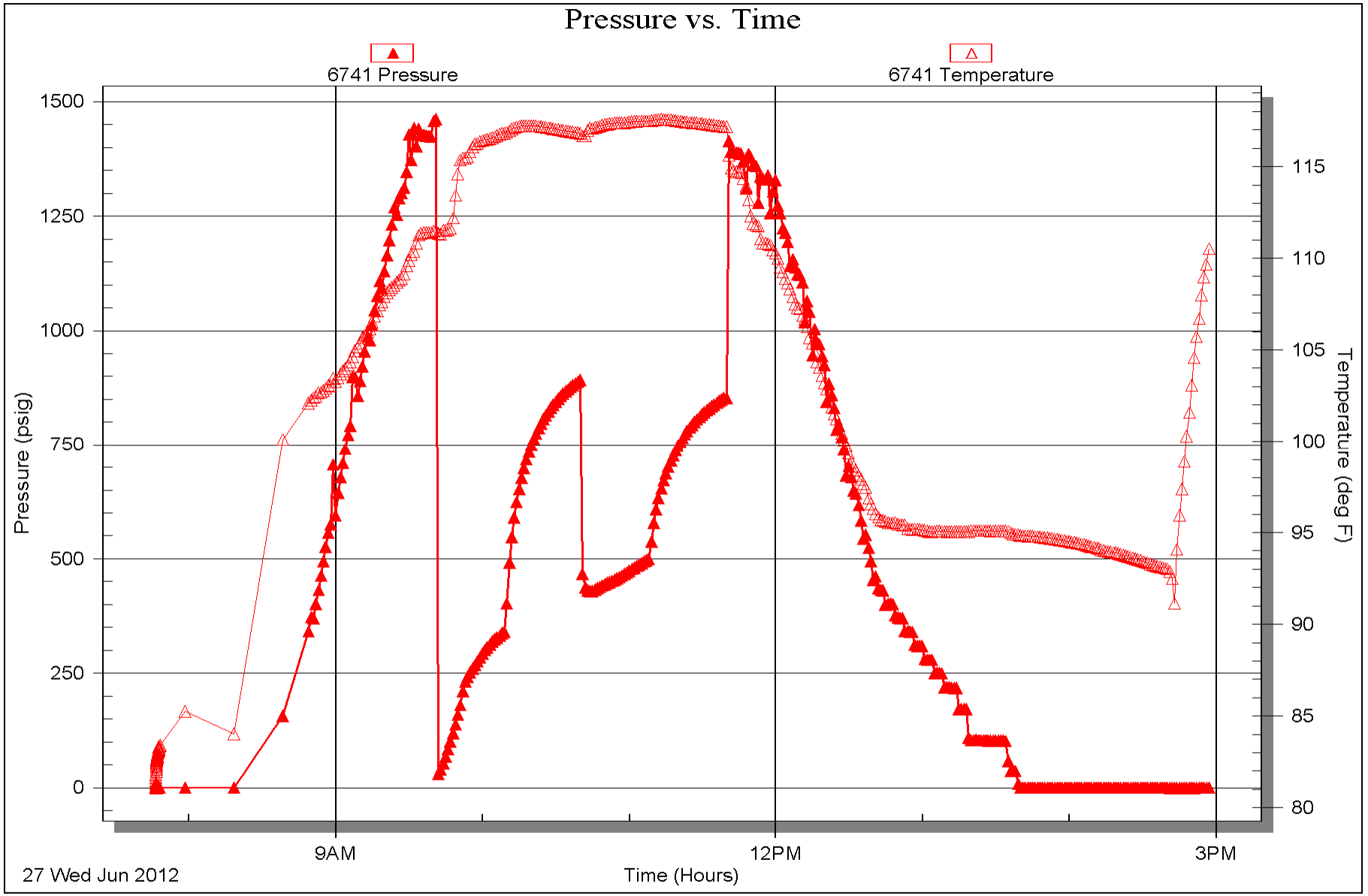
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 6752 **Inside** John O Farmer Inc Waugh B #2 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 47408 Printed: 2012.07.05 @ 11:15:02

Serial #: 6741 **Outside** John O Farmer Inc Waugh B #2 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 47408 Printed: 2012.07.05 @ 11:15:02

TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

4/10

Test Ticket

NO. 47408

Well Name & No. Waugh B #2 Test No. 1 Date 6-27-12

Company JOF Elevation 1313 KB 1305 GL

Address 370 W. Wichita Ave PO Box 352 Russell, KS 67665

Co. Rep / Geo. Austin Klaus Rig Gulick 1

Location: Sec. 18 Twp. 15 Rge. 12 Co. Wabaunsee State KS

Interval Tested 2990 - 3015 Zone Tested Simpson Sand

Anchor Length 25 Drill Pipe Run 2613 Mud Wt. 9.1

Top Packer Depth 2985 Drill Collars Run 379 Vis 46

Bottom Packer Depth 2990 Wt. Pipe Run — WL 8.6

Total Depth 3015 Chlorides 600 ppm System LCM

Blow Description IFP- BOB 7 min
ISI- no blow back
FFP- BOB 2 min
FSI- no blow back

Rec 60	Feet of GIP	%gas	%oil	%water	%mud
Rec 105	Feet of OCM	%gas 15	%oil	%water 85	%mud
Rec 820	Feet of ~~OCM~~ sand CO	%gas 75	%oil	%water 25	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 925 BHT 117 Gravity 21 API RW @ °F Chlorides ppm

(A) Initial Hydrostatic 1457	☐ Test 1150	T-On Location 0713
(B) First Initial Flow 25	☐ Jars	T-Started 0746
(C) First Final Flow 343	☐ Safety Joint	T-Open 0940
(D) Initial Shut-In 892	☐ Circ Sub	T-Pulled 1140
(E) Second Initial Flow 429	☐ Hourly Standby	T-Out 1500
(F) Second Final Flow 501	☐ Mileage 402 RT 623.10	Comments
(G) Final Shut-In 854	☐ Sampler	
(H) Final Hydrostatic 1389	☐ Straddle	☐ Ruined Shale Packer
	☐ Shale Packer	☐ Ruined Packer
Initial Open 30	☐ Extra Packer	☐ Extra Copies
Initial Shut-In 30	☐ Extra Recorder	Sub Total 0
Final Flow 30	☐ Day Standby	Total 1773.10
Final Shut-In 30	☐ Accessibility	MP/DST Disc't
	Sub Total 1773.10	

Approved By Our Representative Brian Fairbank