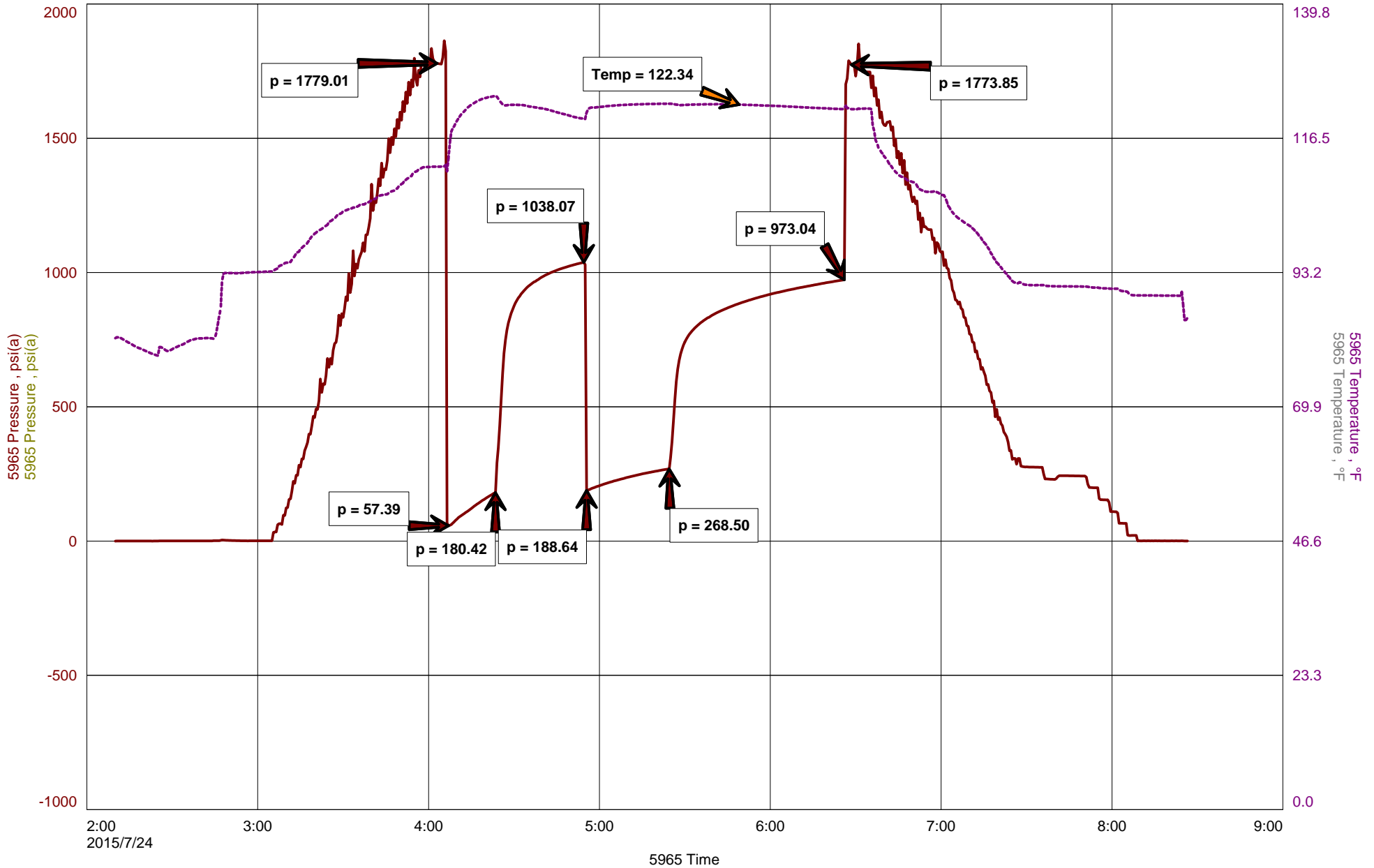


# KS Archer 21-2 DST 2





# Diamond Testing General Report

**Wilbur Steinbeck**  
**TESTER**  
**CELL: 620-282-1573**

## General Information

<b>Company Name</b>	IA Operating	<b>Jeff Lawler</b>	<b>Job Number</b>	W199
<b>Contact</b>		<b>KS Archer 21-2</b>	<b>Representative</b>	Wilbur Steinbeck
<b>Well Name</b>		<b>DST 2 LKC H-K 3707-3800</b>	<b>Well Operator</b>	Discovery 4
<b>Unique Well ID</b>		<b>21-8s-26w Sheridan/Kan</b>	<b>Report Date</b>	2015/07/24
<b>Surface Location</b>		<b>Wildcat</b>	<b>Prepared By</b>	Wilbur Steinbeck
<b>Field</b>			<b>Qualified By</b>	Jeff Lawler

## Test Information

<b>Test Type</b>	Conventional		
<b>Formation</b>	LKC H-K		
<b>Well Fluid Type</b>	01 Oil		
<b>Test Purpose (AEUB)</b>	Initial Test		
<b>Start Test Date</b>	2015/07/24	<b>Start Test Time</b>	02:10:00
<b>Final Test Date</b>	2015/07/24	<b>Final Test Time</b>	08:25:00

## Test Recovery

**Recovery 120 Gassy Free Oil**  
**850 OMCW 5%O 20%M 25%W**  
**970 Total Fluid**

**Tool Sample=OMCW 5%O 40%M 55%W**

**RW=80000ppm**

**Corrected Gravity=39**



**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: KS Archer 21-2 DST 2

TIME ON: 2:10  
TIME OFF: 8:25

Company IA Operating Lease & Well No. KS Archer 21-2  
Contractor Discovery 4 Charge to IA Operating  
Elevation 2421 KB Formation LKC H-K Effective Pay \_\_\_\_\_ Ft. Ticket No. W199  
Date 7-24-15 Sec. 21 Twp. \_\_\_\_\_ 8 S Range \_\_\_\_\_ 26 W County Sheridan/Kan State KANSAS  
Test Approved By Jeff Lawler Diamond Representative Wilbur Steinbeck

Formation Test No. 2 Interval Tested from 3707 ft. to 3800 ft. Total Depth 3800 ft.

Packer Depth 3702 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Packer Depth 3707 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 3693 ft. Recorder Number 5965 Cap. 5000 P.S.I.

Bottom Recorder Depth (Outside) 3708 ft. Recorder Number 5587 Cap. 5,000 P.S.I.

Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type Chem Viscosity 56 Drill Collar Length 30 ft. I.D. 2 1/4 in.

Weight 9.0 Water Loss 7.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.

Chlorides 500 P.P.M. Drill Pipe Length 3652 ft. I.D. 3 1/2 in.

Jars: Make STERLING Serial Number 7 Test Tool Length 25 ft. Tool Size 3 1/2-IF in.

Did Well Flow? NO Reversed Out NO Anchor Length 93 ft. Size 4 1/2-FH in.

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: BOB in 3 min Built to 2"

2nd Open: BOB in 10 min BOB in 42 min

Recovered 120 ft. of Free Oil

Recovered 850 ft. of OMCW 5%O 20%M 75%W

Recovered 970 ft. of Total Fluid

Recovered 400 ft. of GIP

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_ 80 Miles RT Price Job

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_ Other Charges

Remarks: Tool Sample=OMCW 5%O 40%M 55%W Insurance

RW=80000ppm

Corrected Gravity=39 Total

Time Set Packer(s) 4:08 A.M. P.M. Time Started Off Bottom 6:23 A.M. P.M. Maximum Temperature 122

Initial Hydrostatic Pressure..... (A) 1779 P.S.I.

Initial Flow Period..... Minutes 15 (B) 57 P.S.I. to (C) 180 P.S.I.

Initial Closed In Period..... Minutes 30 (D) 1038 P.S.I.

Final Flow Period..... Minutes 30 (E) 189 P.S.I. to (F) 269 P.S.I.

Final Closed In Period..... Minutes 60 (G) 973 P.S.I.

Final Hydrostatic Pressure..... (H) 1774 P.S.I.

Diamond Testing shall not be liable for damages of any kind to 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 statement or opinion concerning the result 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.