



**DIAMOND TESTING, LLC**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(620) 653-7550 • (800) 542-7313  
Archer21-2DST2

Company IA Operating, Inc. Lease & Well No. Archer No. 21-2  
Elevation 2421 KB Formation Lansing/Kansas City "E" & "F" Effective Pay      Ft. Ticket No. W198  
Date 7-23-15 Sec. 21 Twp. 8S Range 26W County Sheridan State Kansas  
Test Approved By Jeff Lawler Diamond Representative Wilbur Steinbeck

Formation Test No. 2 Interval Tested from 3,653 ft. to 3,682 ft. Total Depth 3,682 ft.  
Packer Depth 3,648 ft. Size 6 3/4 in. Packer Depth      ft. Size      in.  
Packer Depth 3,653 ft. Size 6 3/4 in. Packer Depth      ft. Size      in.  
Depth of Selective Zone Set      ft.

Top Recorder Depth (Inside) 3,639 ft. Recorder Number 5965 Cap. 5,000 psi.  
Bottom Recorder Depth (Outside) 3,654 ft. Recorder Number 5587 Cap. 5,000 psi.  
Below Straddle Recorder Depth      ft. Recorder Number      Cap.      psi.

Drilling Contractor Discovery Drilling Company, Inc. - Rig 4 Drill Collar Length 30 ft I.D. 2 1/4 in.  
Mud Type Chemical Viscosity 60 Weight Pipe Length      ft I.D.      in.  
Weight 9.2 Water Loss 7.2 cc. Drill Pipe Length 3,598 ft I.D. 3 1/2 in.  
Chlorides 800 P.P.M. Test Tool Length 25 ft Tool Size 3 1/2-IF in.  
Jars: Make Sterling Serial Number 7 Anchor Length 29 ft. Size 4 1/2-FH in.  
Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.  
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2-XH in.

Blow: 1st Open: Surge blow. Died in 10 mins. No blow back during shut-in.

2nd Open: Surface blow increasing to 1 in. No blow back during shut-in.

Recovered 400 ft. of mud cut water = 5.412700 bbls. (Grind out: 75%-water; 25%-mud)

Recovered      ft. of

Recovered      ft. of

Recovered      ft. of

Recovered      ft. of

Recovered      ft. of

Remarks Tool Sample Grind Out: 90%-water; 10%-mud (Chlorides: 88,000 Ppm)

Time Set Packer(s) 8:40 A.M. Time Started off Bottom 10:40 A.M. Maximum Temperature 126°  
Initial Hydrostatic Pressure.....(A) 1737 P.S.I.  
Initial Flow Period.....Minutes 15 (B) 24 P.S.I. to (C) 99 P.S.I.  
Initial Closed In Period.....Minutes 30 (D) 960 P.S.I.  
Final Flow Period.....Minutes 30 (E) 106 P.S.I. to (F) 197 P.S.I.  
Final Closed In Period.....Minutes 45 (G) 933 P.S.I.  
Final Hydrostatic Pressure.....(H) 1716 P.S.I.



# Diamond Testing General Report

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

## General Information

Company Name	IA Operating, Inc		
Contact	Julie Burrows	Job Number	W198
Well Name	Archer #21-2	Representative	Wilbur Steinbeck
Unique Well ID	DST 2 LKC "E-F" 3653-3682	Well Operator	IA Operating, Inc
Surface Location	21-8s-26w Sheridan/Kan	Report Date	2015/07/23
Field	Studley West	Prepared By	Wilbur Steinbeck
		Qualified By	Jeff Lawler

## Test Information

Test Type	Conventional
Formation	LKC "E-F"
Well Fluid Type	01 Oil
Test Purpose (AEUB)	Initial Test

  

Start Test Date	2015/07/23	Start Test Time	06:10:00
Final Test Date	2015/07/23	Final Test Time	12:45:00

## Test Recovery

Recovery: 400' MCW 75% W 25% M

Tool Sample: MCW 90% W 10% M

Chlorides: 88,000 ppm

IA Operating, Inc  
DST 2 LKC "E-F" 3653-3682  
Start Test Date: 2015/07/23  
Final Test Date: 2015/07/23

Archer #21-2  
Formation: LKC "E-F"  
Pool: Studley West  
Job Number: W198

# Archer #21-2

