



15-009-25395

3-20s-11w

### DIAMOND TESTING

P.O. Box 157

HOISINGTON, KANSAS 67544

(620) 653-7550 • (800) 542-7313  
STC 30037.D068

Company L. D. Drilling, Inc. Lease & Well No. DPK No. 1-3

Elevation 1776 KB Formation Arbuckle Effective Pay -- Ft. Ticket No. R068

Date 3-1-10 Sec. 3 Twp. 20S Range 11W County Barton State Kansas

Test Approved By Kim B. Shoemaker Diamond Representative Randy Williams

Formation Test No. 1 Interval Tested from 3,277 ft. to 3,305 ft. Total Depth 3,305 ft.

Packer Depth 3,272 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 3,277 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set          ft.

Top Recorder Depth (Inside) 3,264 ft. Recorder Number 30037 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 3,302 ft. Recorder Number 13386 Cap. 3,875 psi

Below Straddle Recorder Depth          ft. Recorder Number          Cap.          psi

Drilling Contractor Southwind Drilling, Inc. - Rig 1 Drill Collar Length -- ft. I.D. -- in.

Mud Type Chemical Viscosity 48 Weight Pipe Length -- ft. I.D. -- in.

Weight 8.9 Water Loss 8.0 cc. Drill Pipe Length 3,251 ft. I.D. 3 1/2 in.

Chlorides 5,500 P.P.M. Test Tool Length 26 ft. Tool Size 3 1/2 - IE in.

Jars: Make Sterling Serial Number Not Run Anchor Length 28 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: Fair blow, building to 11 ins. in 30 mins. Weak, surface blow back during shut-in.

2nd Open: Fair blow, building. Off bottom of bucket in 42 mins. Weak, 1/2 in., blow back during shut-in.

Recovered 241 ft. of gas in pipe

Recovered 1 ft. of clean oil = .014230 bbls.

Recovered 57 ft. of gas & mud cut oil = .811110 bbls. (Grind out: 12%-gas; 36%-mud; 52%-oil)

Recovered 60 ft. of slightly gassy & oily mud cut water = .853800 bbls. (Grind out: 4%-gas; 4%-oil; 45%-mud; 47%-water)

Recovered 118 ft. of TOTAL FLUID = 1.679140 bbls. Chlorides: 15,000 Ppm  
PH: 8.0 R.W.: .32 @ 68°

Remarks Tool Sample Grind Out: 4%-oil; 96%-water

Time Set Packer(s) 5:48 <sup>XXM.</sup> P.M. Time Started Off Bottom 8:48 <sup>XXM.</sup> P.M. Maximum Temperature 99°

Initial Hydrostatic Pressure ..... (A) 1536 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 8 P.S.I. to (C) 29 P.S.I.

Initial Closed In Period ..... Minutes 45 (D) 1005 P.S.I.

Final Flow Period ..... Minutes 45 (E) 31 P.S.I. to (F) 58 P.S.I.

Final Closed In Period ..... Minutes 60 (G) 999 P.S.I.

Final Hydrostatic Pressure ..... (H) 1536 P.S.I.

# DIAMOND TESTING

## Drill Test Report

### General Information

Company Name L.D.DRILLING, INC

Contact	L.D. DAVIS
Well Name	DPK # 1-3
Unique Well ID	DST # 1 ARBUCKLE 3277-3305
Surface Location	SEC 3-20S-11W BARTON COUNTY
Field	WILDCAT
Well Type	Vertical
Job Number	R068

Representative	RANDY WILLIAMS
Well Operator	L.D.DRILLING, INC
Report Date	2010/03/01
Prepared By	RANDY WILLIAMS

### Test Information

Test Type	Drill Stem Test
Formation	
Well Fluid Type	01 Oil
Test Purpose (AEUB)	Initial Test

Start Test Time	16:05:00
Final Test Time	22:25:00

Start Test Date	2010/03/01
Final Test Date	2010/03/01

Gauge Name	30037
Test Type Name	

### Test Results

RECOVERED: 241' GAS IN PIPE  
1' CLEAN OIL  
57' GMCO, 12% GAS, 52% OIL, 36% MUD  
60' SGOMCW, 4% GAS, 4% OIL, 47% WATER, 45% MUD  
PH-8.0 CHLORIDES-15,000 RW-.32 @ 68 DEG

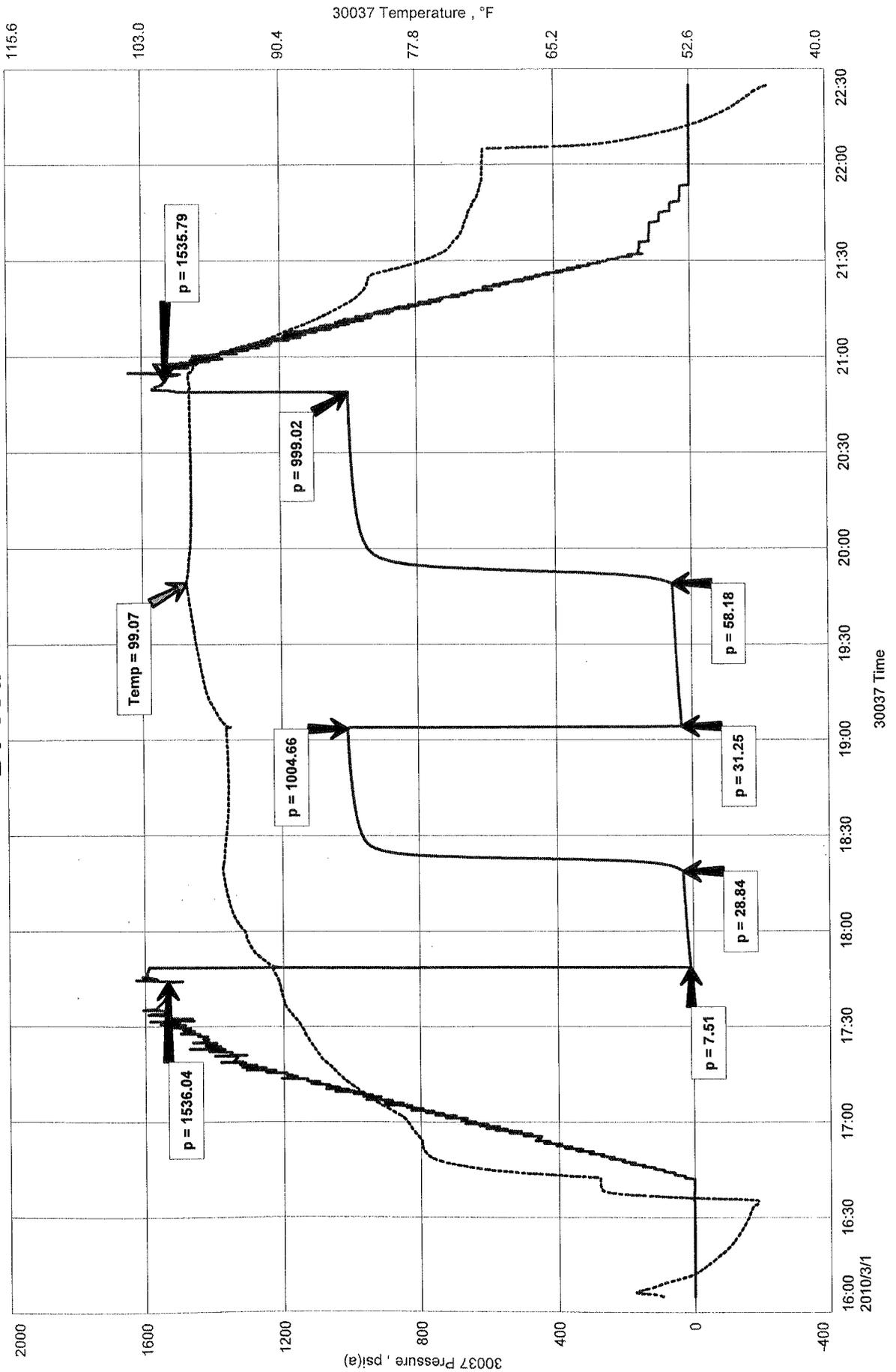
TOTAL FLUID: 118'

TOOL SAMPLE: 4% OIL, 96% WATER

DPK # 1-3  
Pool: WILDCAT  
Job Number: R068

L.D.DRILLING, INC  
DST # 1 ARBUCKLE 3277-3305  
Start Test Date: 2010/03/01  
Final Test Date: 2010/03/01

# DPK # 1-3

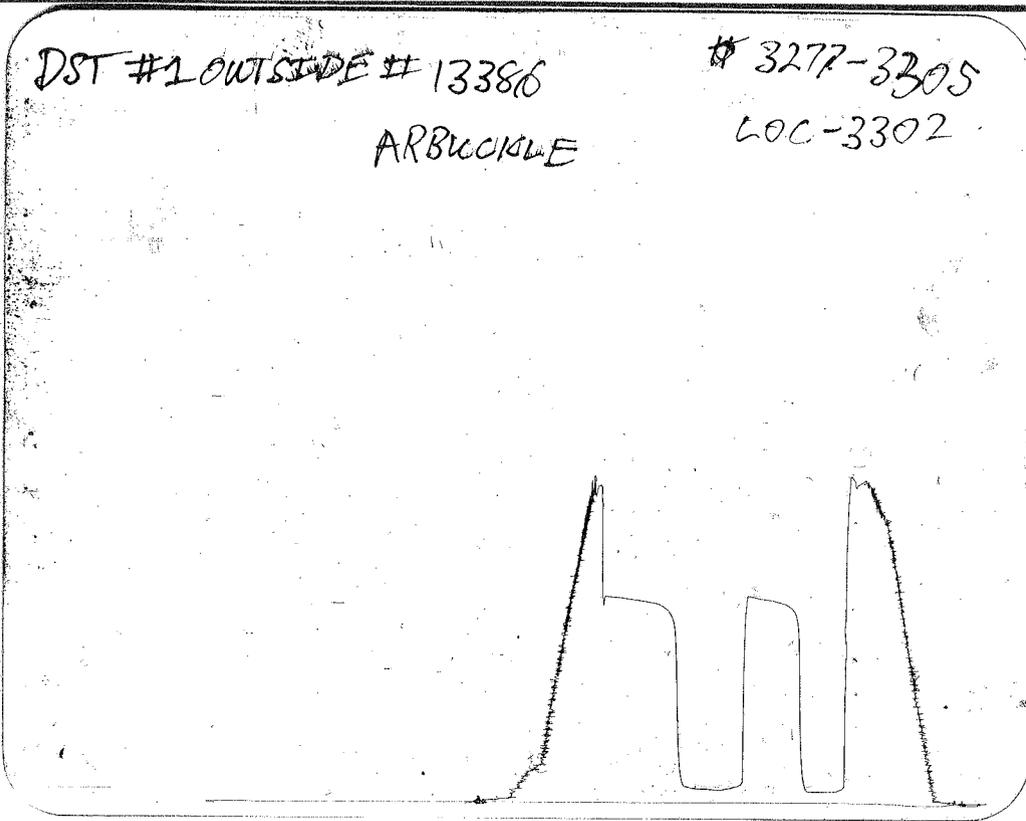


DST #1 OUTSIDE # 13386

# 3277-3305

ARBuckle

LOC-3302



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Elec. Office Reading	
(A) Initial Hydrostatic Mud .....	1536	1536	PSI
(B) First Initial Flow Pressure.....	8	8	PSI
(C) First Final Flow Pressure .....	29	29	PSI
(D) Initial Closed-in Pressure .....	1005	1005	PSI
(E) Second Initial Flow Pressure .....	31	31	PSI
(F) Second Final Flow Pressure.....	58	58	PSI
(G) Final Closed-in Pressure .....	999	999	PSI
(H) Final Hydrostatic Mud .....	1536	1536	PSI