

DIAMOND TESTING GENERAL REPORT

Jake Fahrenbruch, Tester

Cell: (620) 282-8977 / Office: (800) 542-7313



TEST INFORMATION

Well Name	Shumway AA #3
Company Name	LD Drilling Inc
Formation	Arbuckle 3548'-3670'
Test Type	Bottom-Hole DST w/J&J
Surface Location	Sec 27-21s-12w-Stafford Co.-KS
KB Elevation (SL)	1843.000
Gauge Name	Inside 5951
Start Test Date	2014/12/11
Start Test Time	19:30:00
Final Test Date	2014/12/12
Final Test Time	03:13:00
Job Number	F361
Contact	LD Davis
Site Contact	Kurt Talbott

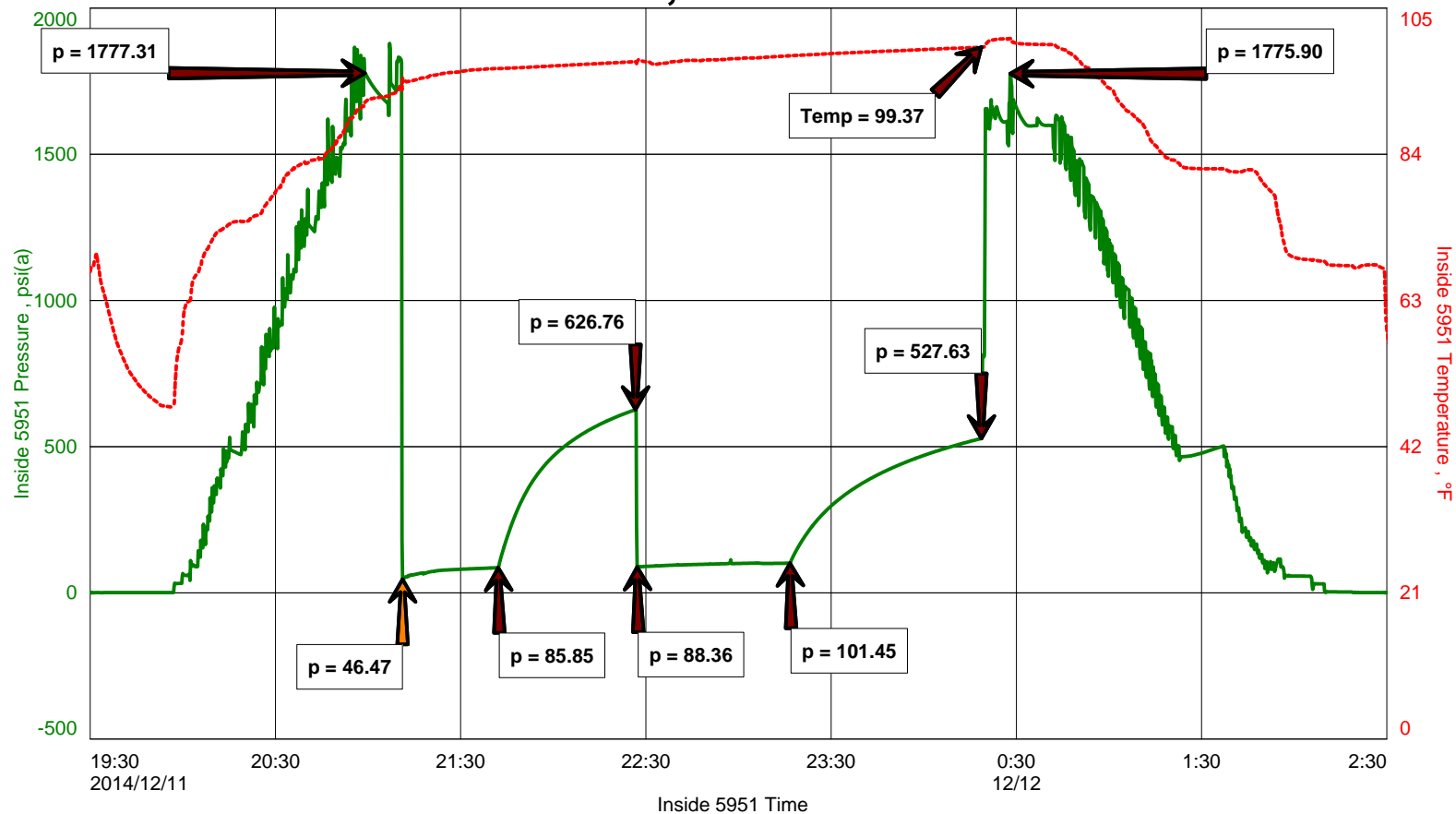
TEST RESULTS

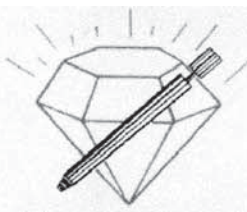
Initial flow, weak blow, increased to 7".
Final flow, weak blow, increased to 2".

TOTAL RECOVERED FLUID: 150'

- 90' SWCM 5% wtr, 95% mud
- 60' WCM 25% wtr, 75% mud
- Chlorides: 28,000 PPM
- RW: .42 ohm @ 42 F
- PH: 10.0
- Trace of oil in tool, <.25% oil.

DST #8, ARBUCKLE





DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: SHUM3DST8

ON LOCATION:	<u>19:00</u>
START RECORDERS:	<u>19:30</u>
STOP RECORDERS:	<u>03:13</u>

Company LP DRILLING INC Lease & Well No. SHUMWAY AA #3
 Contractor PETROMARK DRILL LLC #2 Charge to LP DRILLING INC
 Elevation 1843' KB Formation ARBUCKLE Effective Pay _____ Ft. Ticket No. F361
 Date 12-11-14 Sec. 27 Twp. 21s Range 12W County STAFFORD State KANSAS
 Test Approved By KURT TALBOT Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 8 Interval Tested from 3548 ft. to 3670 ft. Total Depth 3670 ft.
 Packer Depth 3543 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 3548 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3526 ft. Recorder Number 5951 Cap. 5000 P.S.I.
 Bottom Recorder Depth (Outside) 3552 ft. Recorder Number 5584 Cap. 5000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 77 Drill Collar Length 123 ft. I.D. 2 1/4 in.
 Weight 9.3 Water Loss 13.6 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
 Chlorides 12,000 P.P.M. Drill Pipe Length 3392 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number #5 J&J Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? _____ Reversed Out _____ Anchor Length 122 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2" XH in. Surface Choke Size 25' PERFIN ANCHOR in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK BLOW, INCREASED TO 7"
 2nd Open: WEAK BLOW, INCREASED TO 2"

Recovered _____ ft. of TOTAL RECOVERED FLUID: 150'
 Recovered 90 ft. of SWCM 5" wtr, 95" mud
 Recovered 60 ft. of WCM 25" wtr, 75" mud
 Recovered _____ ft. of CHLORIDES: 28,000 PPM
 Recovered _____ ft. of RW: .42 Ω @ 42°F
 Recovered _____ ft. of PH: 10

Remarks: J&J
TRACE OF OIL IN TOOL, < .25" oil
NO MELEAGE
 Total _____

Time Set Packer(s) 9:11 ^{AM} _{P.M.} Time Started Off Bottom 12:11 ^{AM} _{P.M.} Maximum Temperature 99°F

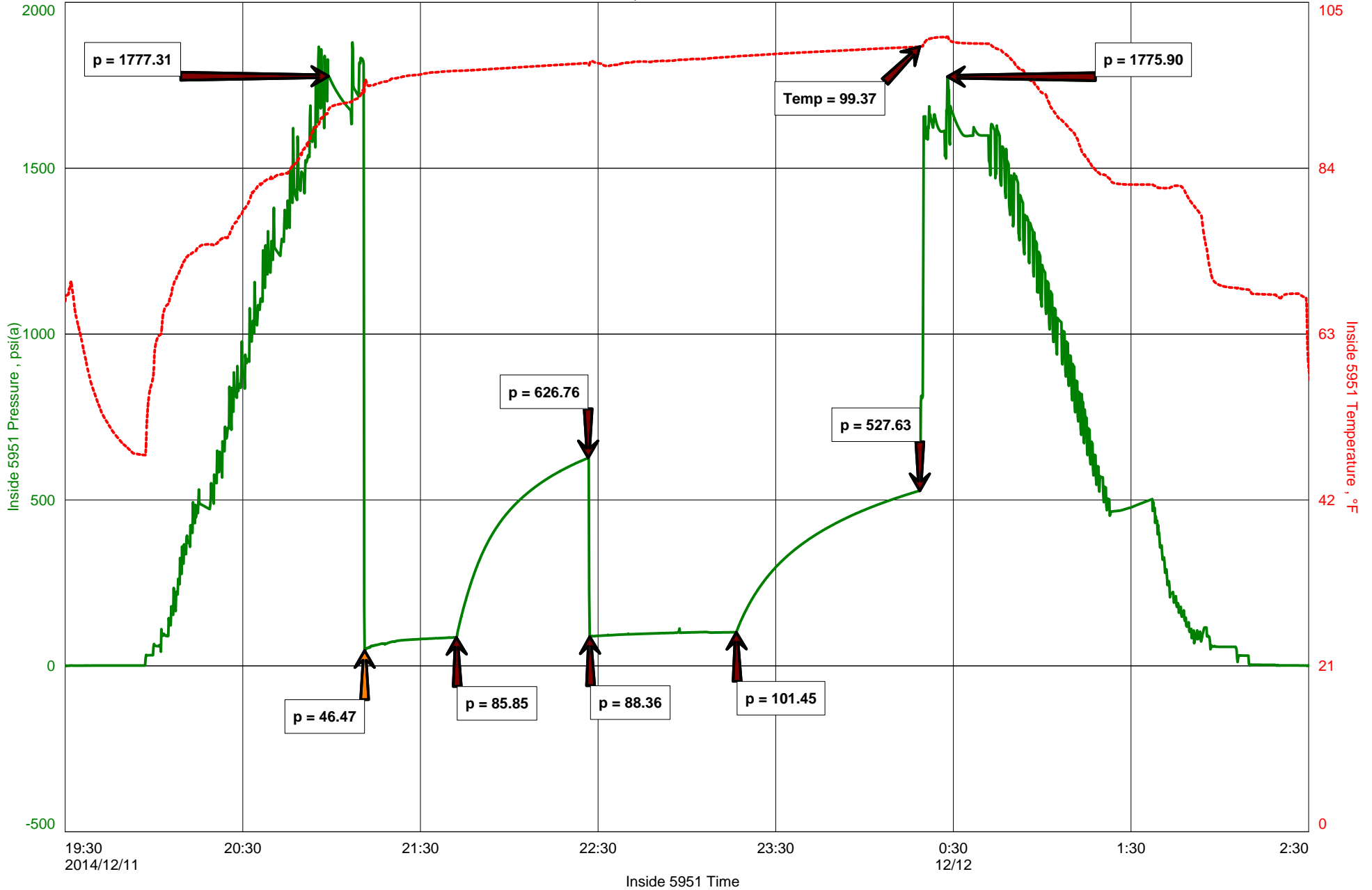
Initial Hydrostatic Pressure..... (A) 1777 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 46 P.S.I. to (C) 86 P.S.I.
 Initial Closed In Period..... Minutes 45 (D) 627 P.S.I.
 Final Flow Period..... Minutes 45 (E) 88 P.S.I. to (F) 101 P.S.I.
 Final Closed In Period..... Minutes 60 (G) 528 P.S.I. Thanks!
 Final Hydrostatic Pressure..... (H) 1776 P.S.I. Jacob E Fahrenbruch

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.

LD Drilling Inc
Start Test Date: 2014/12/11
Final Test Date: 2014/12/12

Shumway AA #3
Formation: Arbuckle 3548'-3670'
Job Number: F361

DST #8, ARBUCKLE





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: SHUM3DST8

TIME ON: 19:30
TIME OFF: 03:13

Company LD Drilling Inc. Lease & Well No. Shumway AA #3
Contractor Petromark Drilling LLC Rig #2 Charge to LD Drilling Inc.
Elevation 1843' KB Formation Arbuckle Effective Pay _____ Ft. Ticket No. F361
Date 12-11-14 Sec. 27 Twp. 21s S Range 12w W County Stafford State KANSAS
Test Approved By Kurt Talbott Diamond Representative Jake Fahrenbruch

Formation Test No. 8 Interval Tested from 3548 ft. to 3670 ft. Total Depth 3670 ft.
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Depth of Selective Zone Set -----

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Mud Type Chemical Viscosity 77 Drill Collar Length 123 ft. I.D. 2 1/4 in.
Weight 9.3 Water Loss 13.6 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
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Jars: Make STERLING Serial Number #5 J&J Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 122 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. ^{25' PERF IN ANCHOR} Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Weak blow, increased to 7"
2nd Open: Weak blow, increased to 2"

Recovered _____ ft. of **TOTAL RECOVERED FLUID: 150'**
Recovered 90 ft. of **SWCM** 5% wtr, 95% mud
Recovered 60 ft. of **WCM** 25% wtr, 75% mud

Recovered _____ ft. of **Chlorides: 28,000 PPM**
Recovered _____ ft. of **RW: .42 ohm @ 42 F**
Recovered _____ ft. of **PH: 10.0**
Remarks: Trace of oil in tool, <.25% oil.

	Price Job
	Other Charges
	Insurance
	Total

Time Set Packer(s) 9:11 PM ^{A.M.}/_{P.M.} Time Started Off Bottom 12:11 AM ^{A.M.}/_{P.M.} Maximum Temperature 99 F

Initial Hydrostatic Pressure..... (A) 1777 P.S.I.
Initial Flow Period..... Minutes 30 (B) 46 P.S.I. to (C) 86 P.S.I.
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Final Flow Period..... Minutes 45 (E) 88 P.S.I. to (F) 101 P.S.I.
Final Closed In Period..... Minutes 60 (G) 528 P.S.I.
Final Hydrostatic Pressure..... (H) 1776 P.S.I.

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