

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	Lansing "A-F" 3269'-3350'
Test Type	Bottom-Hole w/J&J
Surface Location	Sec 27-21s-12w-Stafford Co.-KS
KB Elevation (SL)	1843.000
Gauge Name	Inside 5584
Start Test Date	2014/12/07
Start Test Time	15:48:00
Final Test Date	2014/12/07
Final Test Time	22:40:00
Job Number	F354
Contact	LD Davis
Site Contact	Kurt Talbott

TEST RESULTS

Initial flow, strong blow, BOB in 1.5 minutes. GTS while bleeding off, no blowback.
Final flow, strong blow, BOB in 10 seconds. GTS TSTM. Blowback @ 1".

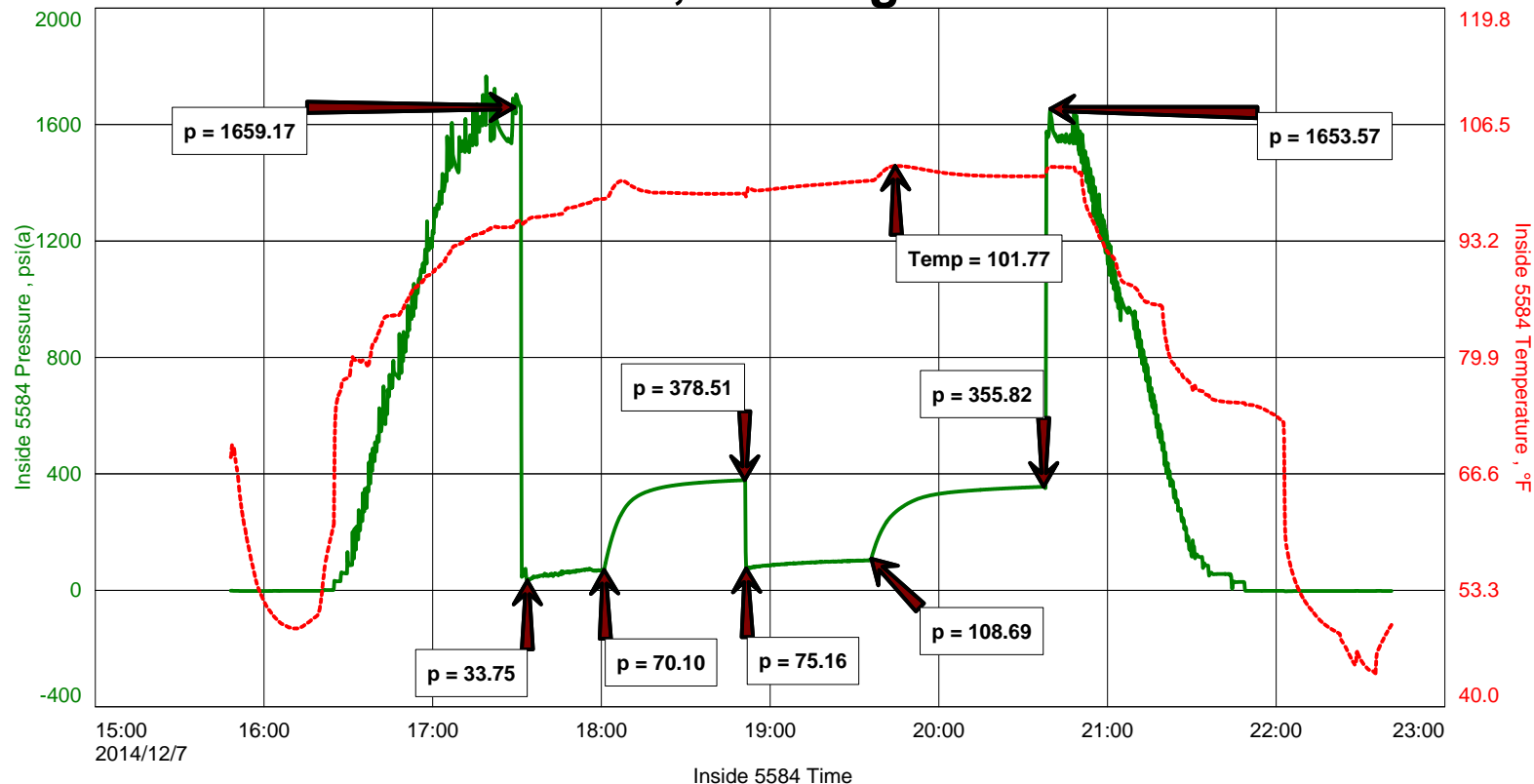
TOTAL RECOVERED FLUID: 275'

120'	Gassy OS WCM	20% gas, 2% oil, 15% wtr, 63% mud
155'	SGC SOC WM	5% gas, 5% oil, 40% wtr, 50% mud
----	Gas In All Fluid-Free Pipe	
----	Chlorides: 38,000 PPM	---- RW: .31 ohm @ 44 F ---- PH: 7.0

LD Drilling Inc.
Start Test Date: 2014/12/07
Final Test Date: 2014/12/07

Shumway AA #3
Formation: Lansing "A-F" 3269'-3350'
Job Number: F354

DST #1, Lansing "A-F"





DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: SHUM3 DST1

ON LOCATION:	<u>10:40</u>
START RECORDERS:	<u>15:48</u>
STOP RECORDERS:	<u>22:40</u>

Company LD DRLG, INC. Lease & Well No. SHUMWAY AA #3
 Contractor PETROMARK DRLG, LLC #2 Charge to LD DRLG, INC
 Elevation 1843' KB Formation LANSING "A-F" Effective Pay _____ Ft. Ticket No. F354
 Date 12-7-14 Sec. 27 Twp. 21 S Range 12 W County STAFFORD State KANSAS
 Test Approved By KURT TALBOTT Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 1 Interval Tested from 3269 ft. to 3350 ft. Total Depth 3350 ft.
 Packer Depth 3264 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 3269 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3250 ft. Recorder Number 5584 Cap. 5000 P.S.I.
 Bottom Recorder Depth (Outside) 3336 ft. Recorder Number 5951 Cap. 5000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 56 Drill Collar Length 123 ft. I.D. 2 1/4 in.
 Weight 9.5 Water Loss 10.8 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
 Chlorides _____ P.P.M. Drill Pipe Length 3113 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? G.T.S. Reversed Out _____ Anchor Length 81 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2" XH in. 16' PERF IN ANCHOR Surface Choke Size _____ in. Bottom Choke Size 5/8 in.

Blow: 1st Open: STRONG BLOW, B.O.B. 1 1/2 MIN, G.T.S. WHILE BLEEDING OFF. NO BB
 2nd Open: STRONG BLOW, B.O.B. 10 SECONDS. GTS TEST. BB @ 1"

Recovered _____ ft. of TOTAL RECOVERED FLUID: 275'
 Recovered 120 ft. of GSSY OS WCM 20% gas, 2% oil, 15% wtr, 63% mud
 Recovered 155 ft. of SGC SOC WCM 5% gas, 5% oil, 40% wtr, 50% mud
 Recovered _____ ft. of _____

Recovered _____ ft. of <u>GAS IN ALL FLUID-FREE PIPE</u>	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: <u>CHLORIDES: 38,000 PPM</u>	<u>J&J</u>
<u>RW: .31 OHM @ 44°F</u>	<u>96 MRT (PRAT)</u>
<u>PH: 7.0</u>	Total

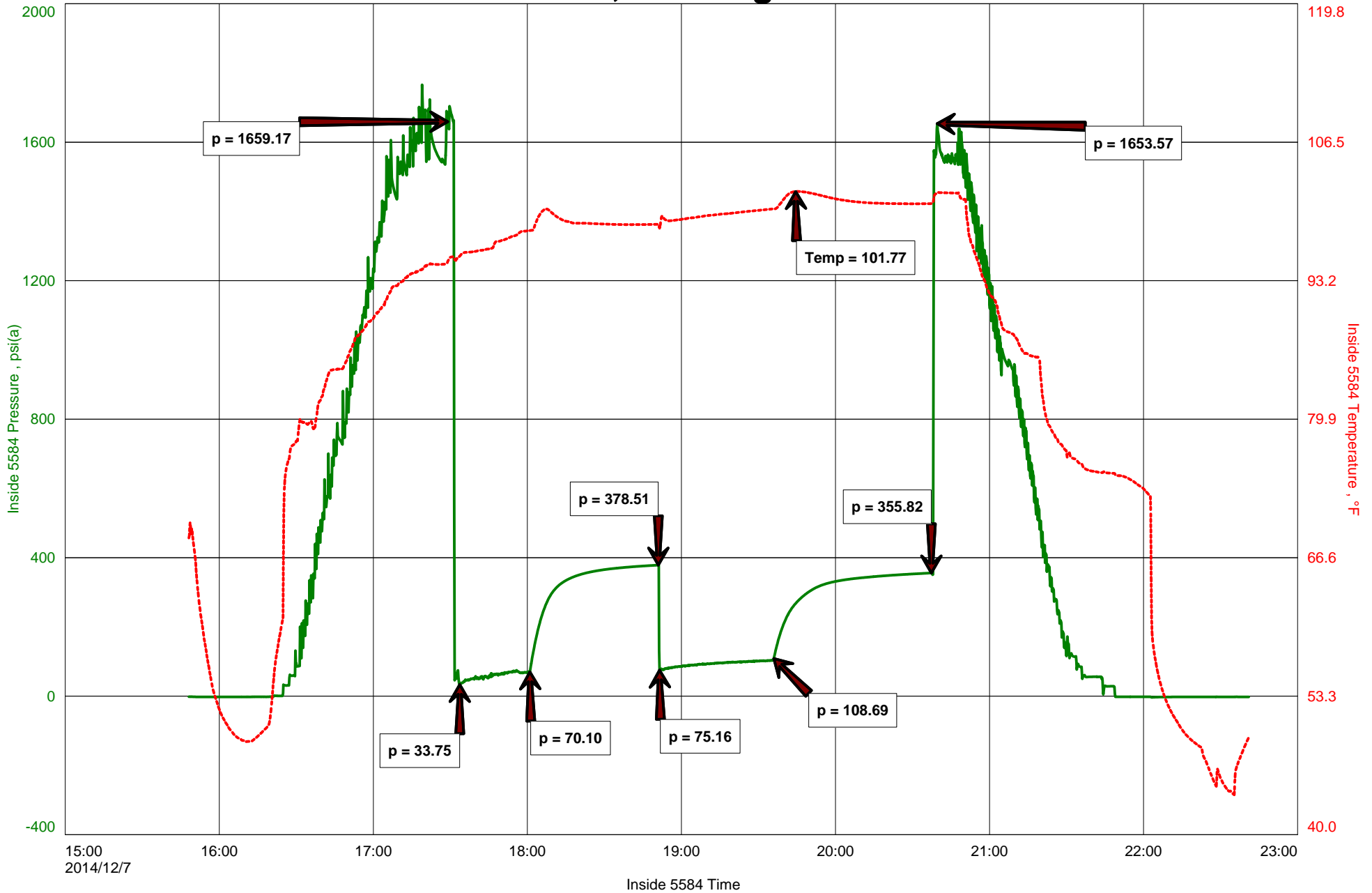
Time Set Packer(s) 5:30 AM / PM Time Started Off Bottom 8:30 AM / PM Maximum Temperature 102°F
 Initial Hydrostatic Pressure..... (A) 1659 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 34 P.S.I. to (C) 70 P.S.I.
 Initial Closed In Period..... Minutes 45 (D) 379 P.S.I.
 Final Flow Period..... Minutes 45 (E) 75 P.S.I. to (F) 109 P.S.I.
 Final Closed In Period..... Minutes 60 (G) 356 P.S.I. Thanks!
 Final Hydrostatic Pressure..... (H) 1654 P.S.I. Jake 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: 2014/12/07
Final Test Date: 2014/12/07

Shumway AA #3
Formation: Lansing "A-F" 3269'-3350'
Job Number: F354

DST #1, Lansing "A-F"





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: SHUM3DST1

TIME ON: 15:48
TIME OFF: 22:40

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 Lansing "A-F" Effective Pay _____ Ft. Ticket No. F354
Date 12-7-14 Sec. 27 Twp. 21s S Range 12w W County Stafford State KANSAS
Test Approved By Kurt Talbott Diamond Representative Jake Fahrenbruch

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Weight 9.5 Water Loss 10.8 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 81 ft. Size 4 1/2-FH in.
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Recovered _____ ft. of <u>Chlorides: 38,000 PPM</u>	Price Job
Recovered _____ ft. of <u>RW: .31 ohm @ 44 F</u>	Other Charges
Remarks: <u>PH: 7.0</u>	Insurance
	Total

Time Set Packer(s) 5:30 PM A.M. P.M. Time Started Off Bottom 8:30 PM A.M. P.M. Maximum Temperature 102 F

Initial Hydrostatic Pressure..... (A) 1659 P.S.I.
Initial Flow Period..... Minutes 30 (B) 34 P.S.I. to (C) 70 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 379 P.S.I.
Final Flow Period..... Minutes 45 (E) 75 P.S.I. to (F) 109 P.S.I.
Final Closed In Period..... Minutes 60 (G) 356 P.S.I.
Final Hydrostatic Pressure..... (H) 1654 P.S.I.

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