

DIAMOND TESTING GENERAL REPORT

Jake Fahrenbruch, Tester

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



TEST INFORMATION

Well Name	Limited #1-31
Company Name	LD Drilling, Inc.
Formation	Cherokee - Mississippi 4183'-4300'
Test Type	Bottom-Hole w/J&J
Surface Location	Sec 31-14s-29w-Gove Co-KS
KB Elevation (SL)	2624.000
Gauge Name	5951
Start Test Date	2015/04/10
Start Test Time	01:32:00
Final Test Date	2015/04/10
Final Test Time	10:18:00
Job Number	F383
Contact	LD Davis
Site Contact	Kim Shoemaker

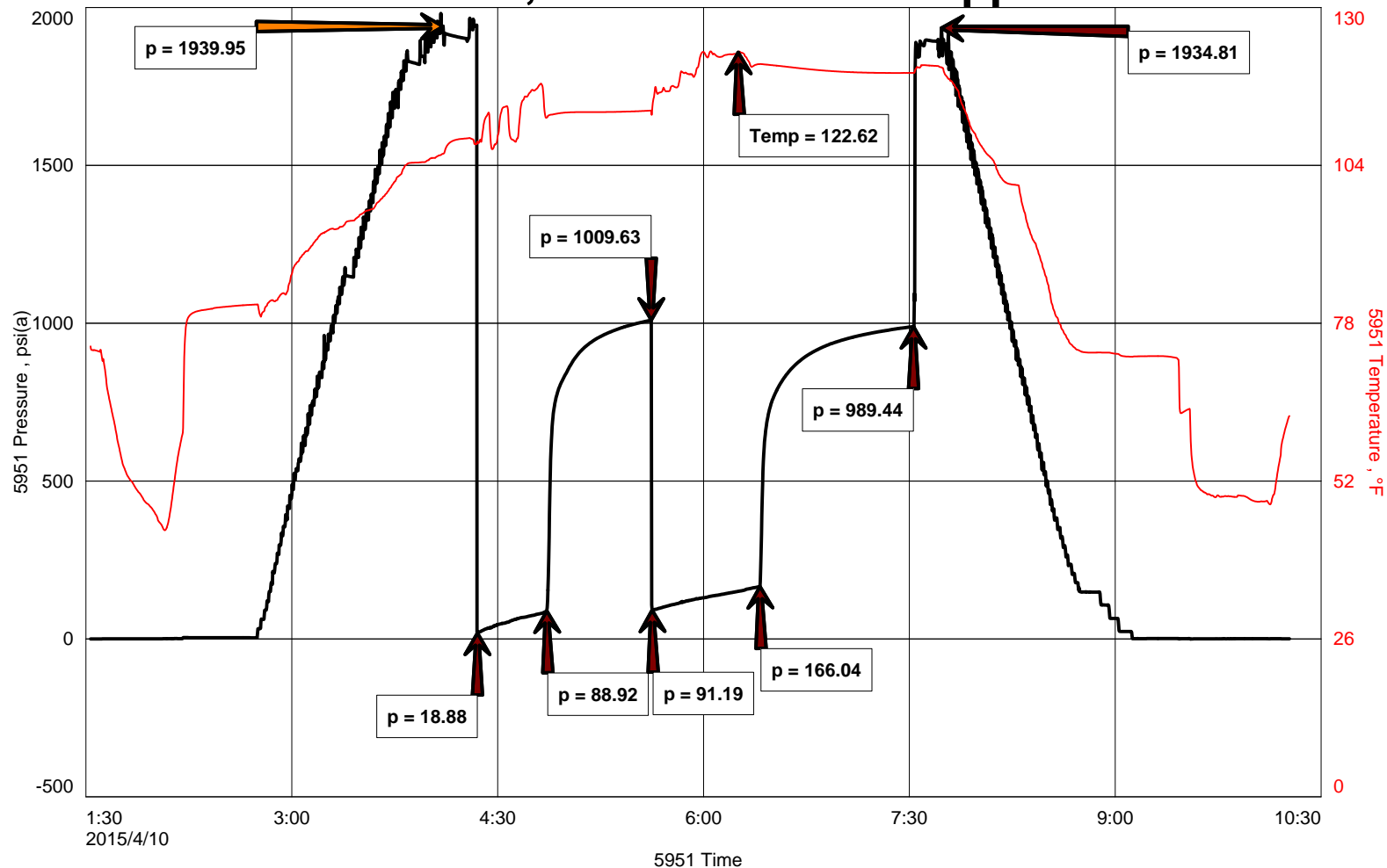
TEST RESULTS

Initial flow, blow increased to B.O.B. in 15 minutes. No blowback.
 Final flow, blow increased to B.O.B. in 23 minutes. No blowback.

TOTAL RECOVERED FLUID: 355'

40'	HMCO	60% oil, 40% mud
315'	Gssy HOCM	15% gas, 35% oil, 50% mud

DST #1, Cherokee-Mississippi





DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: LIMITED 1 DST1

ON LOCATION:	<u>00:30</u>
START RECORDERS:	<u>01:32</u>
STOP RECORDERS:	<u>10:18</u>

Company LD DRUG. INC. Lease & Well No. LIMITED #1-31
 Contractor LD DRUG. INC. Charge to LD DRUG. INC.
 Elevation 2624' NB Formation CHER - MISS Effective Pay _____ Ft. Ticket No. F383
 Date 4-10-15 Sec. 31 Twp. 14S Range 29W County GOVE State KS
 Test Approved By KDM SHOEMAKER Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 1 Interval Tested from 4183 ft. to 4300 ft. Total Depth 4300 ft.
 Packer Depth 4178 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 4183 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4161 ft. Recorder Number 5951 Cap. 5000 P.S.I.
 Bottom Recorder Depth (Outside) 4186 ft. Recorder Number 5584 Cap. 5000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 64 (2nd GM) Drill Collar Length _____ ft. I.D. 2 1/4 in.
 Weight 8.8 Water Loss 8.0 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
 Chlorides 1500 P.P.M. Drill Pipe Length 4150 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number #5 555 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? _____ Reversed Out _____ Anchor Length 117 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 x 1 1/4 in. Surface Choke Size 20' PERF IN ANCHOR in. Bottom Choke Size 5/8 in.

Blow: 1st Open: BLOW INCREASED TO B.O.B. IN 15 MEN. NO B.O.B.
 2nd Open: BLOW INCREASED TO B.O.B. IN 23 MEN. NO B.O.B.

Recovered 40 ft. of HMCO 60" OEL, 40" MUD
 Recovered 315 ft. of GSSY HOLM 15" GAS, 35" OEL, 50" MUD
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

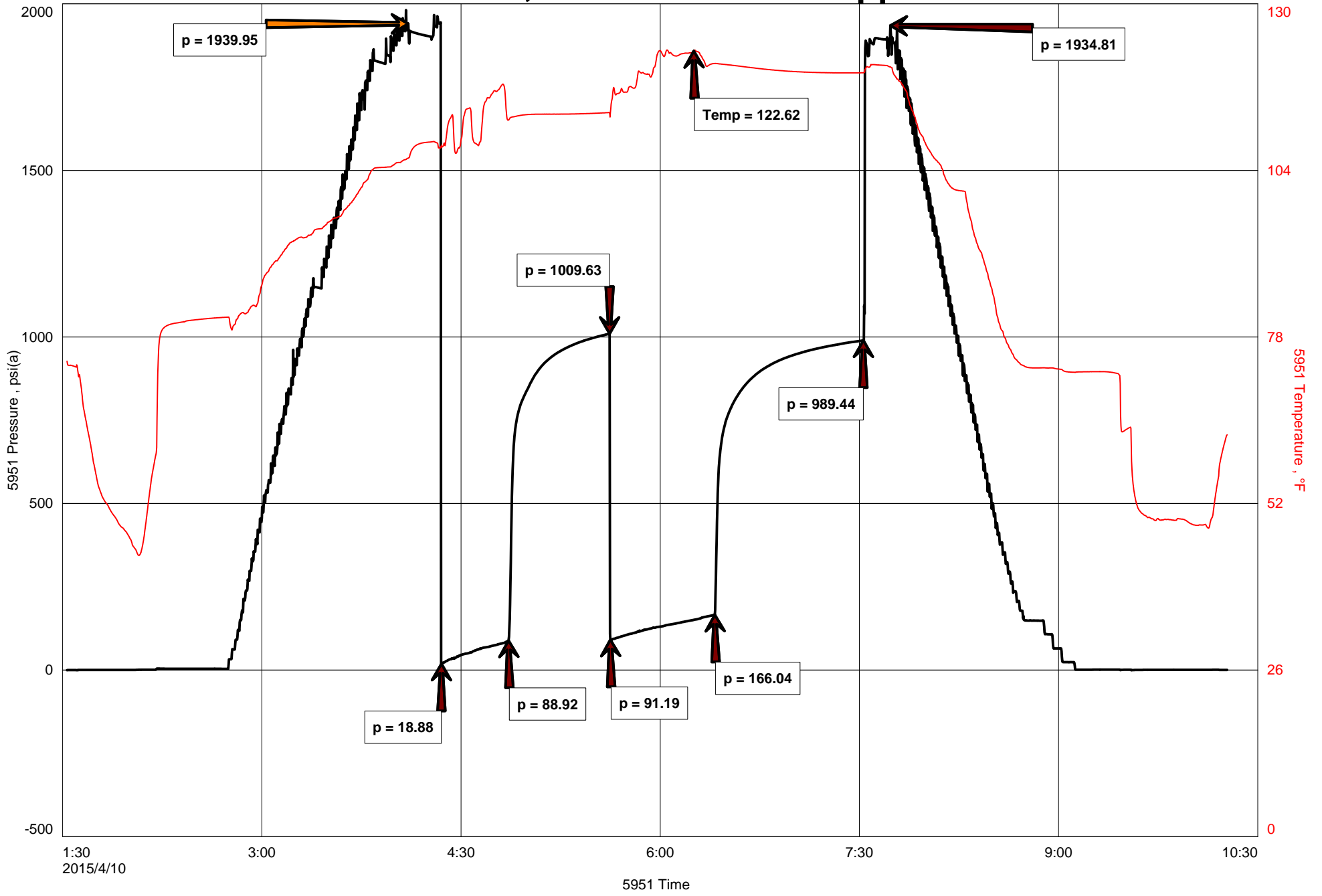
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: <u>TOTAL RECOVERED FLUID: 355'</u>	<u>JARS & JOINT</u>
	<u>374 MRT (PRNT)</u>
	Total

Time Set Packer(s) 04:25 A.M. P.M. Time Started Off Bottom 07:25 A.M. P.M. Maximum Temperature 123 F

Initial Hydrostatic Pressure..... (A) 1940 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 19 P.S.I. to (C) 89 P.S.I.
 Initial Closed In Period..... Minutes 45 (D) 1010 P.S.I.
 Final Flow Period..... Minutes 45 (E) 91 P.S.I. to (F) 106 P.S.I.
 Final Closed In Period..... Minutes 60 (G) 989 P.S.I. THANK YOU!
 Final Hydrostatic Pressure..... (H) 1935 P.S.I. probe failure

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.

DST #1, Cherokee-Mississippi





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: LIMITED1DST1

TIME ON: 01:32
TIME OFF: 10:18

Company LD Drilling, Inc. Lease & Well No. Limited #1-31
Contractor LD Drilling, Inc. Charge to LD Drilling, Inc.
Elevation 2624' KB Formation Cher. - Miss. Effective Pay _____ Ft. Ticket No. F383
Date 4-10-15 Sec. 31 Twp. _____ 14s S Range _____ 29w W County Gove State KANSAS
Test Approved By Kim Shoemaker Diamond Representative Jake Fahrenbruch

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Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chemical Viscosity 64 (2# LCM) Drill Collar Length 0 ft. I.D. 2 1/4 in.
Weight 8.8 Water Loss 8.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 1,500 P.P.M. Drill Pipe Length 4,150 ft. I.D. 3 1/2 in.
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2nd Open: Blow increased to B.O.B. in 23 minutes. No blowback.

Recovered 40 ft. of HMCO 60% oil, 40% mud
Recovered 315 ft. of Gssy HOcm 15% gas, 35% oil, 50% mud
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Remarks: TOTAL RECOVERED FLUID: 355'

	Price Job
	Other Charges
	Insurance
	Total

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Final Flow Period..... Minutes 45 (E) 91 P.S.I. to (F) 166 P.S.I.
Final Closed In Period..... Minutes 60 (G) 989 P.S.I.
Final Hydrostatic Pressure..... (H) 1935 P.S.I.

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