

# DIAMOND TESTING GENERAL REPORT

**Jake Fahrenbruch, Tester**

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



## TEST INFORMATION

<b>Well Name</b>	Mull-Heyen #1-24
<b>Company Name</b>	LD Drilling, Inc.
<b>Formation</b>	DST #2, L/KC "H-K" 3403'-3480'
<b>Test Type</b>	Bottom-Hole w/safety joint
<b>Surface Location</b>	Sec 24-22s-12w-Stafford Co.-KS
<b>KB Elevation (SL)</b>	1849.000
<b>Gauge Name</b>	5951
<b>Start Test Date</b>	2016/03/30
<b>Start Test Time</b>	07:20:00
<b>Final Test Date</b>	2016/03/30
<b>Final Test Time</b>	14:11:00
<b>Job Number</b>	F428
<b>Contact</b>	LD Davis
<b>Site Contact</b>	Kim Shoemaker

## TEST RESULTS

Initial flow, strong blow @ BOB in 1.75 minutes. No blowback.  
 Final flow, Strong blow @ BOB in .75 minutes, GTS 15 minutes. Blowback @ BOB.  
 Gas Guaged at 32,000 CF/D (11# @ .25")

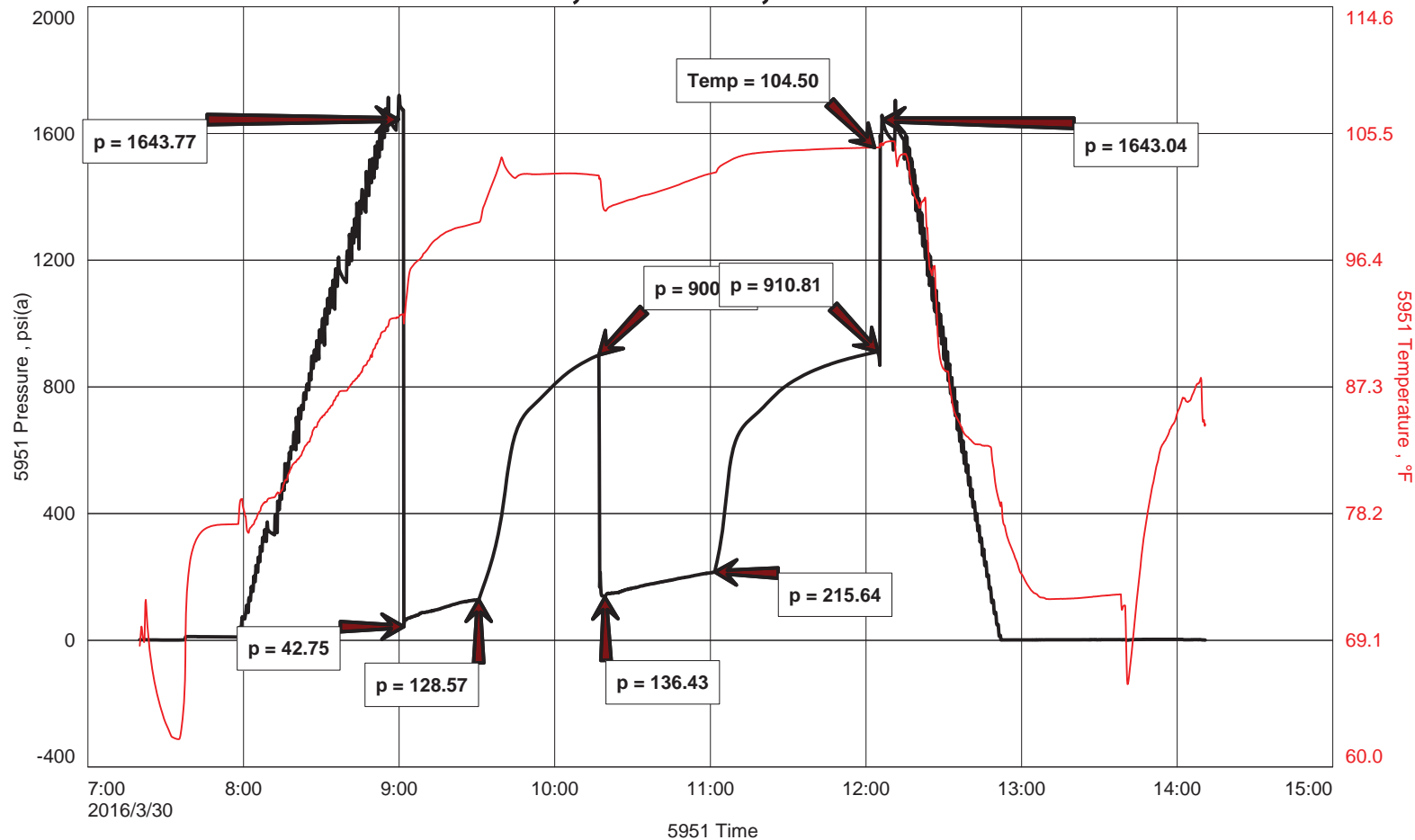
**TOTAL FLUID RECOVERED: 485'**

50' GCOSM 15% GAS, 2% OIL, 83% MUD

435' Gassy Oil 15% GAS, 85% OIL

GRAVITY: 31 @ 60 F

## MULL-HEYEN #1-24, DST #2, L/KC "H-K" 3403'-3480'





**DIAMOND TESTING**  
 P.O. Box 157  
 HOISINGTON, KANSAS 67544  
 (800) 542-7313

**DRILL-STEM TEST TICKET**  
 FILE: MULL-HEYEN 1DST1

ON LOCATION:	<u>07:00</u>
START RECORDERS:	<u>07:20</u>
STOP RECORDERS:	<u>14:11</u>

Company LD DRILLING, INC. Lease & Well No. MULL-HEYEN #1-24  
 Contractor LD DRILLING Charge to LD DRILLING, INC.  
 Elevation 1849' KB Formation L/KC "H-K" Effective Pay \_\_\_\_\_ Ft. Ticket No. F428  
 Date 3-30-16 Sec. 74 Twp. 22S Range 12W County STAFFORD State KS  
 Test Approved By KIM SHOEMAKER Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 2 Interval Tested from 3403 ft. to 3480 ft. Total Depth 3480 ft.  
 Packer Depth 3398 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
 Packer Depth 3403 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
 Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 3386 ft. Recorder Number 5951 Cap. 5000 P.S.I.  
 Bottom Recorder Depth (Outside) 3408 ft. Recorder Number 5584 Cap. 5000 P.S.I.  
 Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 55 (1" LCM) Drill Collar Length \_\_\_\_\_ ft. I.D. 2 1/4 in.  
 Weight 8.9 Water Loss 15.2 cc. Weight Pipe Length \_\_\_\_\_ ft. I.D. 2 7/8 in.  
 Chlorides 18000 P.P.M. Drill Pipe Length 3375 ft. I.D. 3 1/2 in.  
 Jars: Make STERLING Serial Number #5 S.JNT. Test Tool Length 28 ft. Tool Size 3 1/2-IF in.  
 Did Well Flow? GTS Reversed Out \_\_\_\_\_ Anchor Length 77 ft. Size 4 1/2-FH in.  
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 KH in. 43' PERF IN ANCHOR Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: STRONG BLOW @ BOB IN 1 3/4 MIN. NO BLOWBACK.  
 2nd Open: STRONG BLOW @ BOB IN 3/4 MIN. GTS 15 MIN. BLOWBACK @ BOB

Recovered 50 ft. of GC OSM 15" GAS, 2" OIL, 83" MUD  
 Recovered 435 ft. of GASSY OIL 15" GAS, 85" OIL  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

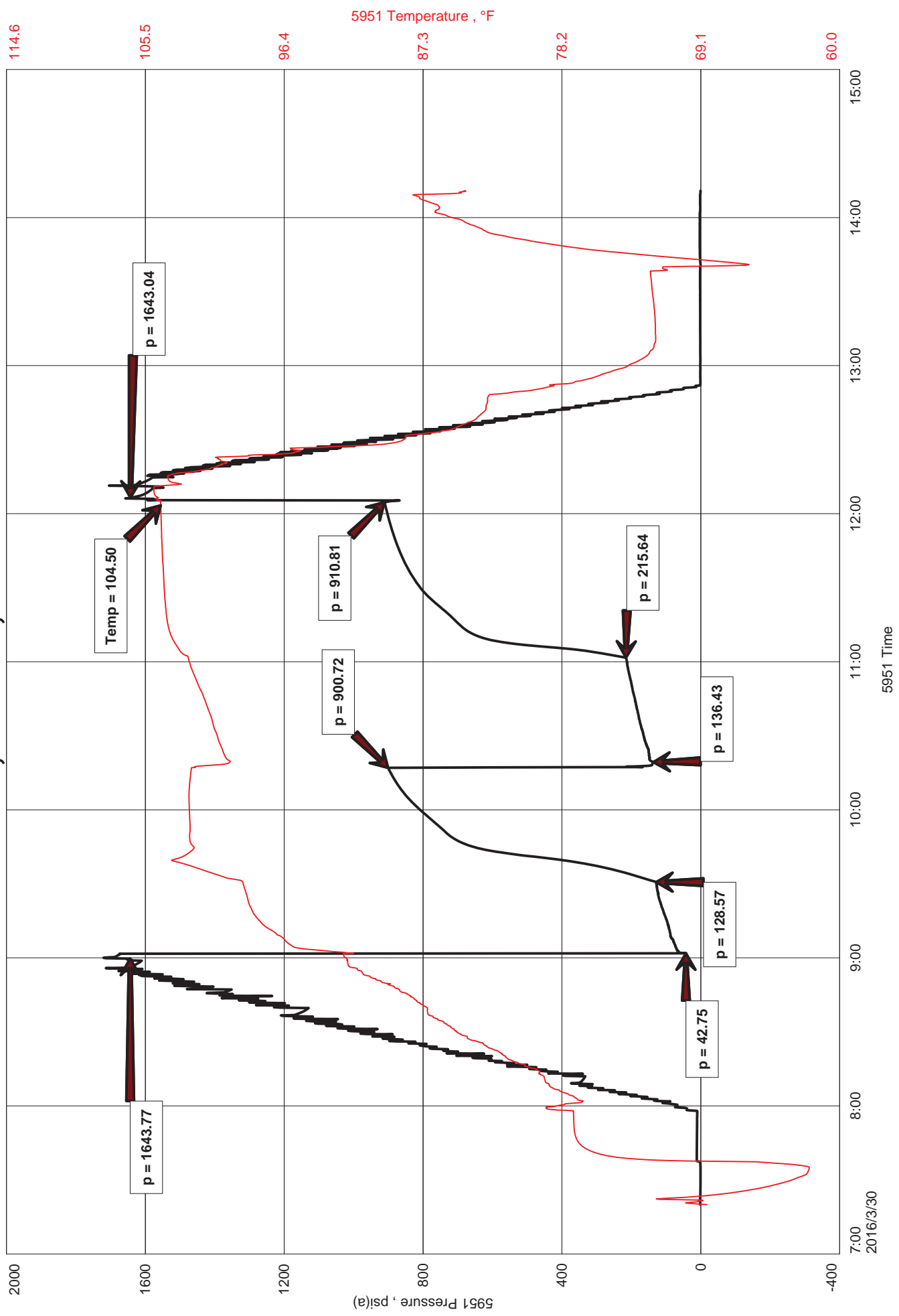
Recovered <u>2</u> ft. of <u>TOTAL RECOVERED FLUID: 485'</u>	Price Job
Remarks: <u>GAS GAUGED @ 32,000 CF/D. (11" @ 1/4')</u>	Other Charges
<u>GRAVITY: 31 @ 60°F</u>	<u>S. JOINT</u>
	<u>84 MFT (PRIT)</u>
	Total

Time Set Packer(s) 09:00 A.M. P.M. Time Started Off Bottom 12:00 A.M. P.M. Maximum Temperature 105°F

Initial Hydrostatic Pressure..... (A) 1644 P.S.I.  
 Initial Flow Period..... Minutes 30 (B) 43 P.S.I. to (C) 129 P.S.I.  
 Initial Closed In Period..... Minutes 45 (D) 901 P.S.I.  
 Final Flow Period..... Minutes 45 (E) 136 P.S.I. to (F) 216 P.S.I.  
 Final Closed In Period..... Minutes 60 (G) 911 P.S.I. THANKS!  
 Final Hydrostatic Pressure..... (H) 1643 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.

# MULL-HEYEN #1-24, DST #2, L/KC "H-K" 3403'-3480'







**DIAMOND TESTING**  
 P.O. Box 157  
 HOISINGTON, KANSAS 67544  
 (800) 542-7313

TIME ON: 07:20  
 TIME OFF: 14:11

**DRILL-STEM TEST TICKET**  
 FILE: MULL-HEYEN1DST2

Company LD Drilling Inc. Lease & Well No. Mull-Heyen #1-24  
 Contractor LD Drilling Charge to LD Drilling Inc.  
 Elevation 1849' KB Formation L/KC "H-K" Effective Pay \_\_\_\_\_ Ft. Ticket No. F428  
 Date 3-30-16 Sec. 24 Twp. \_\_\_\_\_ 22s S Range \_\_\_\_\_ 12w W County Stafford State KANSAS  
 Test Approved By Kim Shoemaker Diamond Representative Jake Fahrenbruch

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 Depth of Selective Zone Set \_\_\_\_\_

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Mud Type CHEMICAL Viscosity 55 (1# LCM) Drill Collar Length 0 ft. I.D. 2 1/4 in.  
 Weight 8.9 Water Loss 15.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
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 Recovered 435 ft. of Gassy Oil 15% GAS, 85% OIL  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered _____ ft. of <b>TOTAL RECOVERED FLUID: 485'</b>	Price Job
Remarks: <u>Gas guaged @ 32,000 CF/D. (11# @ .25")</u>	Other Charges
<b>GRAVITY: 31 @ 60 F</b>	Insurance
	Total

Time Set Packer(s) 09:00 A.M. P.M. Time Started Off Bottom 12:00 A.M. P.M. Maximum Temperature 105 F

Initial Hydrostatic Pressure..... (A) 1644 P.S.I.  
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