

DIAMOND TESTING GENERAL REPORT

Jake Fahrenbruch, Tester

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



TEST INFORMATION

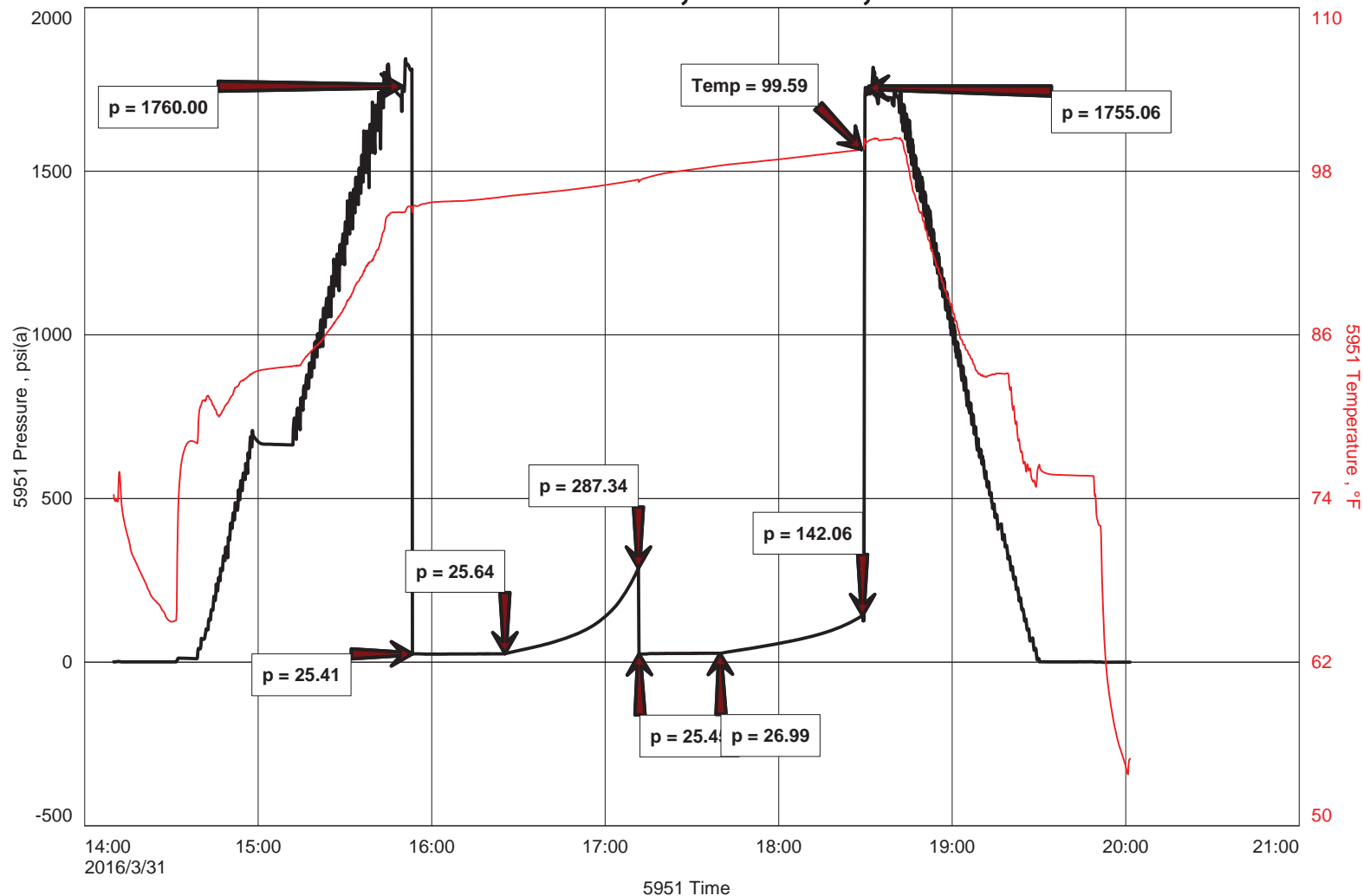
Well Name	Mull-Heyen #1-24
Company Name	LD Drilling, Inc.
Formation	DST #4, Simpson 3592'-3626'
Test Type	Bottom-Hole w/safety joint
Surface Location	Sec 24-22s-12w-Stafford Co.-KS
KB Elevation (SL)	1849.000
Gauge Name	5951
Start Test Date	2016/03/31
Start Test Time	14:10:00
Final Test Date	2016/03/31
Final Test Time	20:02:00
Job Number	F430
Contact	LD Davis
Site Contact	Kim Shoemaker

TEST RESULTS

Initial flow, weak blow, inc to 2.75".
Final flow, weak blow, inc to 1".

Recovered 25' of SOCM, 4% oil, 96% mud
Tool sample: OCM 20% oil, 80% mud

MULL-HEYEN #1-24, DST #4, 3592'-3626'





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

DRILL-STEM TEST TICKET
 FILE: MULL-HEYEN 12574

ON LOCATION: 13:55
 START RECORDERS: 14:10
 STOP RECORDERS: 20:02

Company LD DRILLING, INC. Lease & Well No. MULL-HEYEN #1-24
 Contractor LD DRILLING Charge to LD DRILLING, INC.
 Elevation 1849' KB Formation SIMPSON Effective Pay _____ Ft. Ticket No. F430
 Date 3-31-16 Sec. 24 Twp. 22S Range 12W County STAFFORD State KS
 Test Approved By KEN SHIDEMAKER Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 4 Interval Tested from 3592 ft. to 3626 ft. Total Depth 3626 ft.
 Packer Depth 3587 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 3592 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3575 ft. Recorder Number 5951 Cap. 5000 P.S.I.
 Bottom Recorder Depth (Outside) 3597 ft. Recorder Number 5584 Cap. 5000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 57 (1" x 10M) Drill Collar Length _____ ft. I.D. 2 1/4 in.
 Weight 9.0 Water Loss 15.2 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
 Chlorides 18000 P.P.M. Drill Pipe Length 3564 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number #5 S. JOINT Test Tool Length 28 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? _____ Reversed Out _____ Anchor Length 34 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

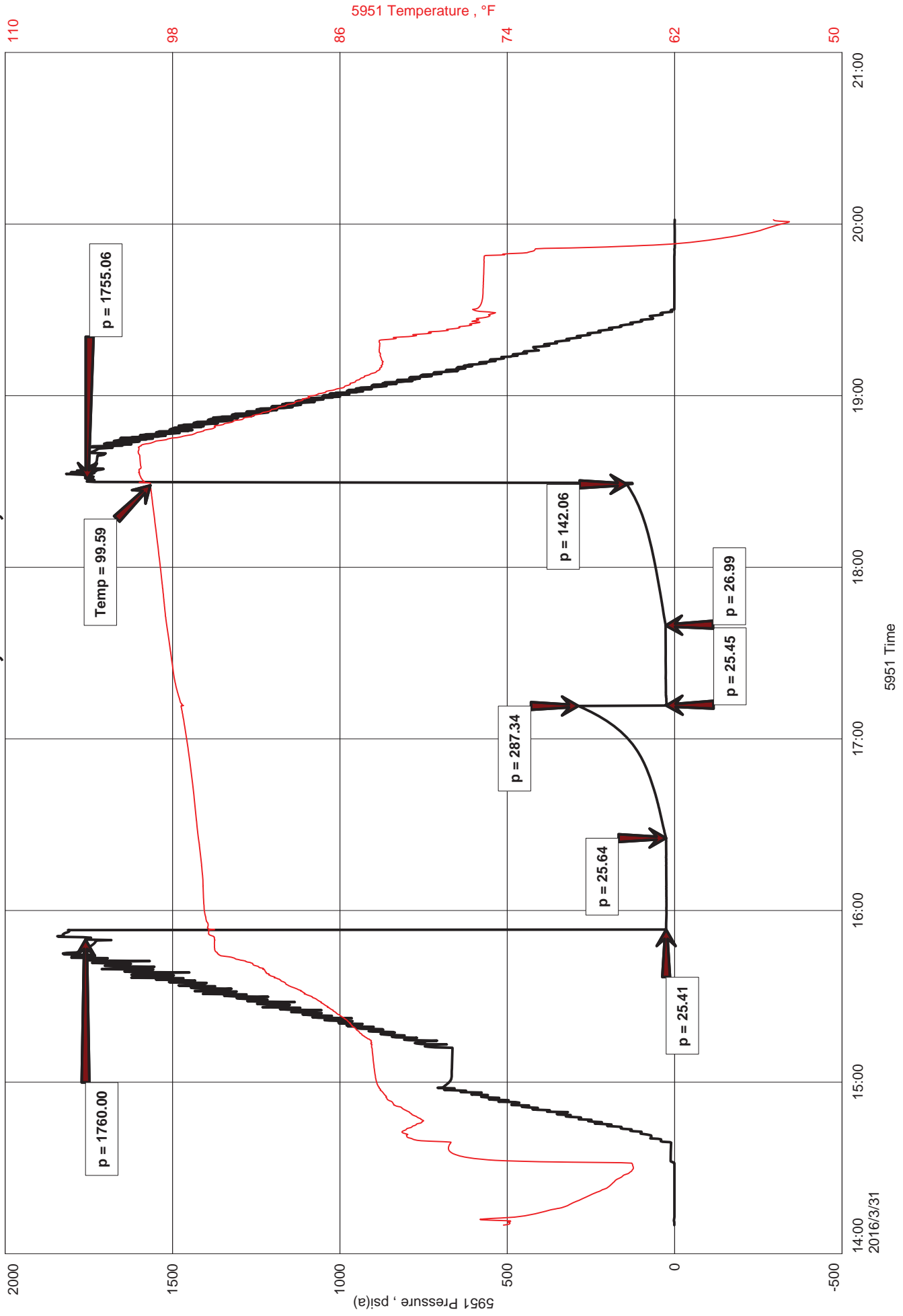
Blow: 1st Open: WEAK BLOW, INC TO 2 3/4"
 2nd Open: WEAK BLOW, INC TO 1"

Recovered 25 ft. of SOCM 4" OIL, 96% MUD
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Remarks: TOOL SAMPLE: OCM 20" OIL, 80% MUD
 Price Job _____
 Other Charges _____
S. JOINT
J4 MRT (PRAM)
 Total _____

Time Set Packer(s) 3:53 A.M. Time Started Off Bottom 6:23 P.M. Maximum Temperature 100°F
 Initial Hydrostatic Pressure..... (A) 1760 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 25 P.S.I. to (C) 26 P.S.I.
 Initial Closed In Period..... Minutes 45 (D) 287 P.S.I.
 Final Flow Period..... Minutes 30 (E) 25 P.S.I. to (F) 27 P.S.I.
 Final Closed In Period..... Minutes 45 (G) 142 P.S.I. THANKS!
 Final Hydrostatic Pressure..... (H) 1755 P.S.I. [Signature]

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 #4, 3592'-3626'





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

TIME ON: 14:10
 TIME OFF: 20:02

DRILL-STEM TEST TICKET
 FILE: MULL-HEYEN1DST4

Company LD Drilling Inc. Lease & Well No. Mull-Heyen #1-24
 Contractor LD Drilling Charge to LD Drilling Inc.
 Elevation 1849' KB Formation SIMPSON Effective Pay _____ Ft. Ticket No. F430
 Date 3-31-16 Sec. 24 Twp. _____ Range 22s S Range _____ County Stafford State KANSAS
 Test Approved By Kim Shoemaker Diamond Representative Jake Fahrenbruch

Formation Test No. 4 Interval Tested from 3592 ft. to 3626 ft. Total Depth 3626 ft.
 Packer Depth 3587 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
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 Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3575 ft. Recorder Number 5591 Cap. 5000 P.S.I.
 Bottom Recorder Depth (Outside) 3597 ft. Recorder Number 5584 Cap. 5000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 57 (1# LCM) Drill Collar Length 0 ft. I.D. 2 1/4 in.
 Weight 9.0 Water Loss 15.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
 Chlorides 18,000 P.P.M. Drill Pipe Length 3,564 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number _____ Test Tool Length 28 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? NO Reversed Out NO Anchor Length 34 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Weak blow, increased to 2.75"

2nd Open: Weak blow, increased to 1"

Recovered 25 ft. of SOCM 4% oil, 96% mud

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: Tool sample: OCM 20% oil, 80% mud

Price Job

Other Charges

Insurance

Total

Time Set Packer(s) 15:53 A.M. P.M. Time Started Off Bottom 18:23 A.M. P.M. Maximum Temperature 100 F

Initial Hydrostatic Pressure..... (A) 1760 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 25 P.S.I. to (C) 26 P.S.I.
 Initial Closed In Period..... Minutes 45 (D) 287 P.S.I.
 Final Flow Period..... Minutes 30 (E) 25 P.S.I. to (F) 27 P.S.I.
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