

DIAMOND TESTING GENERAL REPORT

Jake Fahrenbruch, Tester

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



TEST INFORMATION

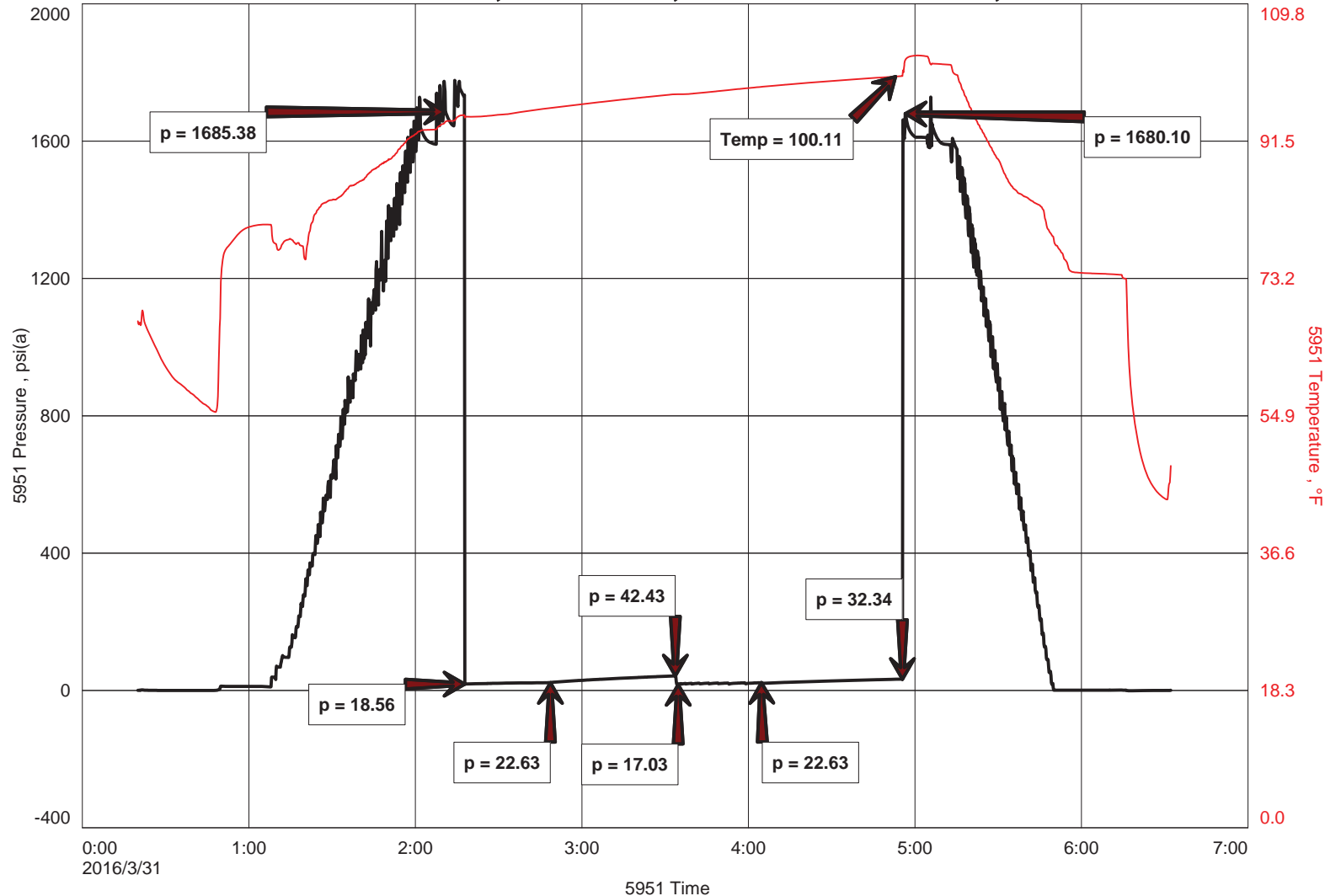
| | |
|--------------------------|-----------------------------------|
| Well Name | Mull-Heyen #1-24 |
| Company Name | LD Drilling, Inc. |
| Formation | DST #3, Congl./Viola, 3502'-3590' |
| Test Type | Bottom-Hole w/safety joint |
| Surface Location | Sec 24-22s-12w-Stafford Co.-KS |
| KB Elevation (SL) | 1849.000 |
| Gauge Name | 5951 |
| Start Test Date | 2016/03/31 |
| Start Test Time | 00:20:00 |
| Final Test Date | 2016/03/31 |
| Final Test Time | 06:32:00 |
| Job Number | F429 |
| Contact | LD Davis |
| Site Contact | Kim Shoemaker |

TEST RESULTS

Initial flow, weak blow, increased to 2".
Final flow, weak blow, increased to 1".

Recovered 15' of drilling mud, 100% mud.

MULL-HEYEN #1-24, DST #3, CONG./VIOLA, 3502"-3590'





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

DRILL-STEM TEST TICKET
 FILE: MULL-HEYEN 1DST3

ON LOCATION: 23:56
 START RECORDERS: 00:20
 STOP RECORDERS: 06:32

Company LD DRILLING, INC. Lease & Well No. MULL-HEYEN #1-24
 Contractor LD DRILLING Charge to LD DRILLING, INC.
 Elevation 1849' NB Formation CONG/VFOVA Effective Pay _____ Ft. Ticket No. F429
 Date 3-31-16 Sec. 24 Twp. 22 S Range 12 W County STAFFORD State KS
 Test Approved By KEN SIKEMAKER Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 3 Interval Tested from 3502 ft. to 3590 ft. Total Depth 3590 ft.
 Packer Depth 3497 ft. Size 6 3/4 in. Packer depth — ft. Size 6 3/4 in.
 Packer Depth 3502 ft. Size 6 3/4 in. Packer depth — ft. Size 6 3/4 in.
 Depth of Selective Zone Set —

Top Recorder Depth (Inside) 3485 ft. Recorder Number 5951 Cap. 5000 P.S.I.
 Bottom Recorder Depth (Outside) 3507 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"CM) 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 3474 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number #5 S.J.M. Test Tool Length 28 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? _____ Reversed Out _____ Anchor Length 88 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 X 4 in. Surface Choke Size 22" PERF 1 in. Bottom Choke Size 5/8 in.

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

Recovered 15 ft. of DRLG MUD 100" MUD
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

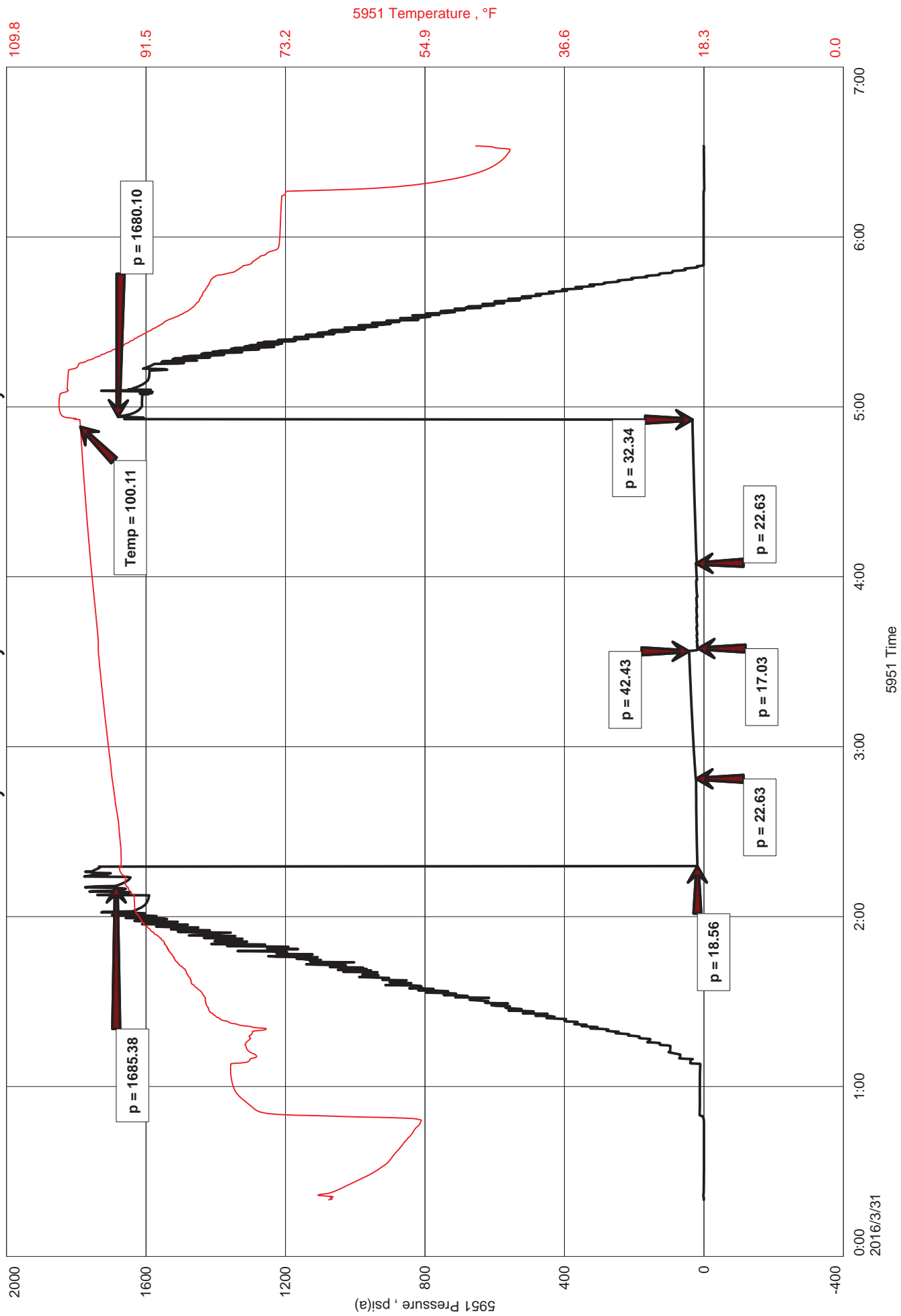
| | |
|------------------------------|---------------------|
| Recovered _____ ft. of _____ | Price Job |
| Recovered _____ ft. of _____ | Other Charges |
| Remarks: _____ | <u>S. JOINT</u> |
| | <u>84MRT (PRAT)</u> |
| | Total |

Time Set Packer(s) 02:19 A.M. P.M. Time Started Off Bottom 04:49 A.M. P.M. Maximum Temperature 100 F

Initial Hydrostatic Pressure..... (A) 1685 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 19 P.S.I. to (C) 23 P.S.I.
 Initial Closed In Period..... Minutes 45 (D) 42 P.S.I.
 Final Flow Period..... Minutes 30 (E) 17 P.S.I. to (F) 23 P.S.I.
 Final Closed In Period..... Minutes 45 (G) 32 P.S.I. THANKS!
 Final Hydrostatic Pressure..... (H) 1680 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 #3, CONG. MIOLA, 3502" -3590'





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

TIME ON: 00:20
 TIME OFF: 06:32

DRILL-STEM TEST TICKET
 FILE: MULL-HEYEN1DST3

Company LD Drilling Inc. Lease & Well No. Mull-Heyen #1-24
 Contractor LD Drilling Charge to LD Drilling Inc.
 Elevation 1849' KB Formation CONG./VIOLA Effective Pay _____ Ft. Ticket No. F429
 Date 3-31-16 Sec. 24 Twp. _____ 22s S Range _____ 12w W County Stafford State KANSAS
 Test Approved By Kim Shoemaker Diamond Representative Jake Fahrenbruch

Formation Test No. 3 Interval Tested from 3502 ft. to 3590 ft. Total Depth 3590 ft.
 Packer Depth 3497 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 3502 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3485 ft. Recorder Number 5591 Cap. 5000 P.S.I.
 Bottom Recorder Depth (Outside) 3507 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 3,474 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 88 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. 22' perf in anchor Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

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

| | |
|--------------------------------------------|-----------------|
| Recovered <u>15</u> ft. of <u>DRLG MUD</u> | <u>100% mud</u> |
| Recovered _____ ft. of _____ | |
| Recovered _____ ft. of _____ | |
| Recovered _____ ft. of _____ | |
| Recovered _____ ft. of _____ | Price Job |
| Recovered _____ ft. of _____ | Other Charges |
| Remarks: _____ | Insurance |
| | Total |

Time Set Packer(s) 02:19 A.M. P.M. Time Started Off Bottom 04:49 A.M. P.M. Maximum Temperature 100 F

Initial Hydrostatic Pressure..... (A) 1685 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 19 P.S.I. to (C) 23 P.S.I.
 Initial Closed In Period..... Minutes 45 (D) 42 P.S.I.
 Final Flow Period..... Minutes 30 (E) 17 P.S.I. to (F) 23 P.S.I.
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 Final Hydrostatic Pressure..... (H) 1680 P.S.I.

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