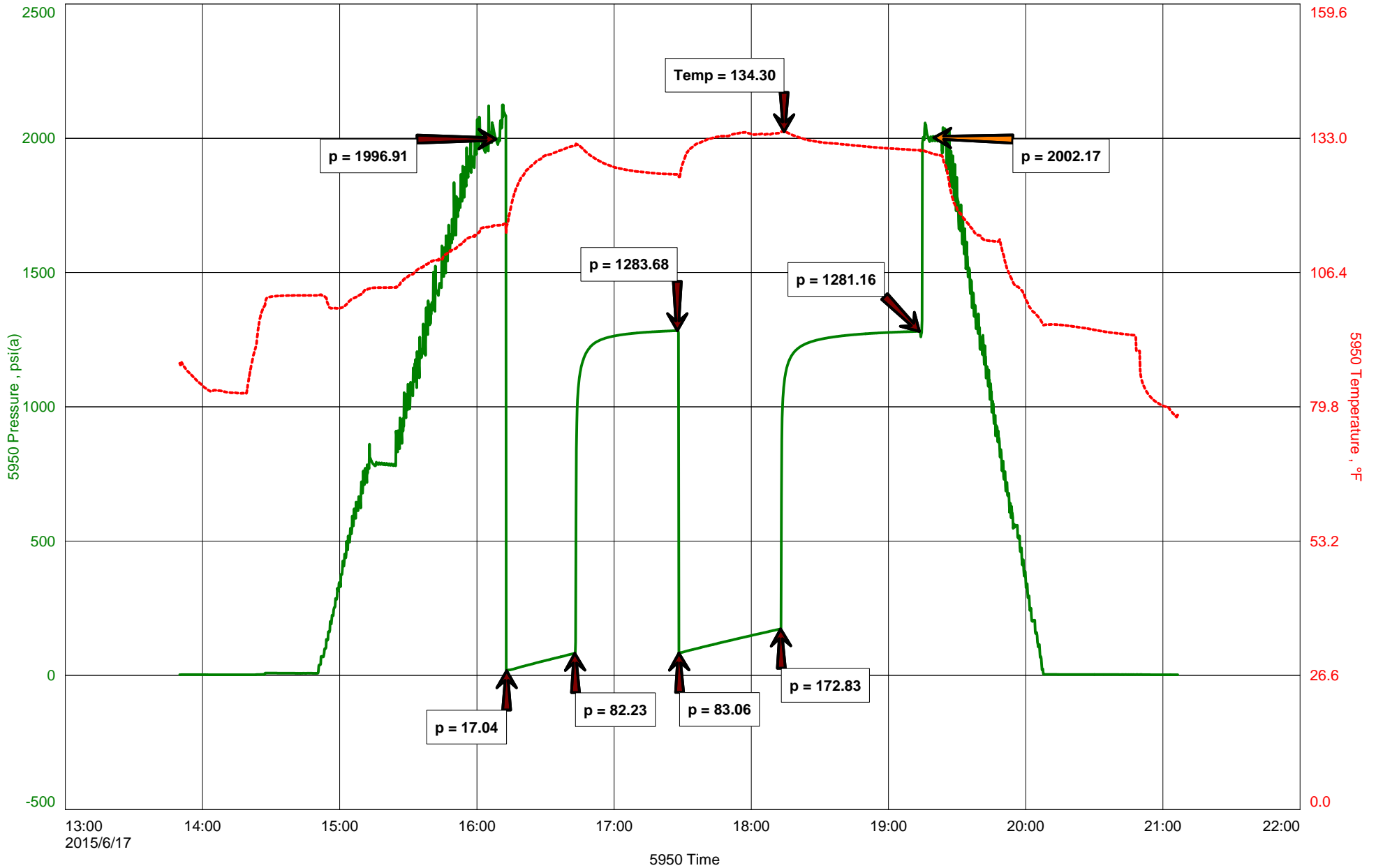


# Howard #1-21





**Hoisington, Kansas**

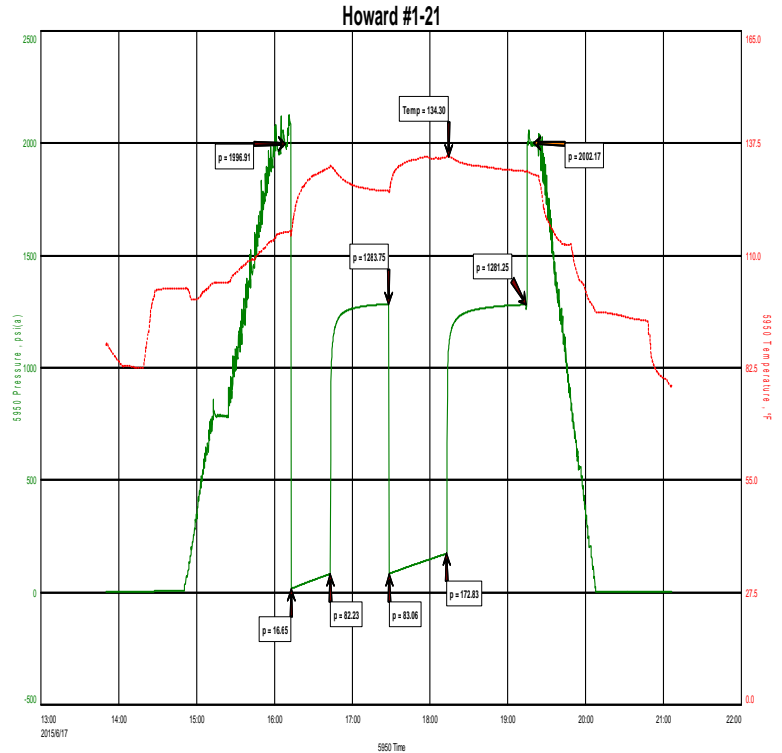
**Michael Carroll**  
**620-617-0368**  
**carroll.dtlc@gmail.com**

**General Information**

**Company Name** L.D. Drilling Inc

**Contact** L.D. Davis  
**Well Name** Howard #1-21  
**Unique Well ID** Dst #2 Lans A-B 4248-4283'  
**Surface Location** Sec21-6s-36w Thomas County  
**Field** NA  
**Well Type** Vertical  
**Test Type** Drill Stem Test  
**Well Operator** L.D. Drilling Inc

**Formation** Dst #2 Lans A-B 4248-4283'  
**Well Fluid Type** 06 Water  
**Test Purpose** Initial Test  
**Start Test Date** 2015/06/17  
**Start Test Time** 13:50:00  
**Final Test Time** 21:06:00  
**Job Number** P0080  
**Report Date** 2015/06/17  
**Prepared By** Michael Carroll



**TEST RECOVERY**

**Remarks** Recovery: 323' MW 93%W 7%M

**Total Fluid:** 323'

**Tool Sample:** 100%W

**Small Trace Of Oil At Top Of Recovery**

**Chlorides:** 73000 PPM  
**RW .08 @ 90 Degrees**  
**PH 7**



**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: HOWARD1-21DST#2

TIME ON: 1350  
TIME OFF: 2106

Company L.D. Drilling Inc Lease & Well No. Howard #1-21  
Contractor L.D. Drilling Charge to L.D. Drilling Inc  
Elevation 3385KB Formation Lans A-B Effective Pay \_\_\_\_\_ Ft. Ticket No. P0080  
Date 6-17-15 Sec. 21 Twp. 6 S Range 36 W County Thomas State KANSAS  
Test Approved By Kim Shoemaker Diamond Representative Michael Carroll

Formation Test No. 2 Interval Tested from 4248 ft. to 4283 ft. Total Depth 4283 ft.  
Packer Depth 4243 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 4248 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_  
Top Recorder Depth (Inside) 4233 ft. Recorder Number 5950 Cap. 5000 P.S.I.  
Bottom Recorder Depth (Outside) 4252 ft. Recorder Number 0230 Cap. 5000 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type Chem Viscosity 62 Drill Collar Length 0 ft. I.D. 2 1/4 in.  
Weight 9.0 Water Loss 8.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 3000 P.P.M. Drill Pipe Length 4215 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number 11 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NO Reversed Out NO Anchor Length 35 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: WSB-BUILT TO BOB IN 30 MINUTES NOBB  
2nd Open: NO BLOW-BUILT TO BOB IN 34 MINUTES NOBB

Recovered 323 ft. of MW 93%W 7%M CHLORIDES 73000 PPM  
Recovered 323 ft. of TOTAL FLUID RW .08 @ 90 DEGREES  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_ PH 7

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Recovered _____ ft. of _____	Insurance
Remarks: <u>SMALL TRACE OF OIL AT TOP OF RECOVERY</u>	
TOOL SAMPLE: <u>100%W</u>	Total

Time Set Packer(s) 4:10P.M. A.M. P.M. Time Started Off Bottom 7:10P.M. A.M. P.M. Maximum Temperature 134  
Initial Hydrostatic Pressure..... (A) 1997 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 17 P.S.I. to (C) 82 P.S.I.  
Initial Closed In Period..... Minutes 45 (D) 1284 P.S.I.  
Final Flow Period..... Minutes 45 (E) 83 P.S.I. to (F) 173 P.S.I.  
Final Closed In Period..... Minutes 60 (G) 1281 P.S.I.  
Final Hydrostatic Pressure..... (H) 2002 P.S.I.

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.