



# Diamond Testing General Report

**JAKE  
FAHRENBRUCH - TESTER  
Cell: (620) 282-8977**

P.O. Box 157  
Hoisington KS 67544  
Office: (800) 542-7313

## General Information

<b>Company Name</b>	LD DRILLING INC	<b>Well Name</b>	HARLEY #1-30
<b>Well Operator</b>	LD DRILLING INC	<b>Unique Well ID</b>	DST #1 MARMATON 4004'-4148'
<b>Contact</b>	LD DAVIS	<b>Surface Location</b>	SEC 30-14S-29W-GOVE CO.-KS
<b>Site Contact</b>	KIM SHOEMAKER	<b>Test Unit</b>	#5
<b>Field</b>	LUNDGREN	<b>Pool</b>	NA
<b>Well Type</b>	Vertical	<b>Job Number</b>	F253
<b>Prepared By</b>	JAKE FAHRENBRUCH	<b>Qualified By</b>	KIM SHOEMAKER

## Test Information

<b>Test Type</b>	BOTTOM-HOLE W/J&J	<b>Test Purpose</b>	Initial Test
<b>Formation</b>	MARMATON 4004'-4148'	<b>Gauge Name</b>	INSIDE 5951
<b>Start Test Date</b>	2014/03/03	<b>Start Test Time</b>	04:57:00
<b>Final Test Date</b>	2014/03/03	<b>Final Test Time</b>	13:06:00

## Test Results

30 MIN I.F.	FAIR BLOW, INC TO B.O.B. IN 18 MIN
45 MIN I.S.I.	SURFACE BLOW-BACK
45 MIN F.F.	FAIR BLOW @ 2", INC TO B.O.B. IN 17 MIN
60 MIN F.S.I.	BLOW-BACK @ 1"

### RECOVERED:

85'	SGC OCM	5% G, 15% O, 80% M
----	240' G.I.P.	
----	TOOL SAMPLE: HOCM, 30% O, 70% M	
----	BOTTOM-HOLE TEMP: 121 DEG F	

### PRESSURES:

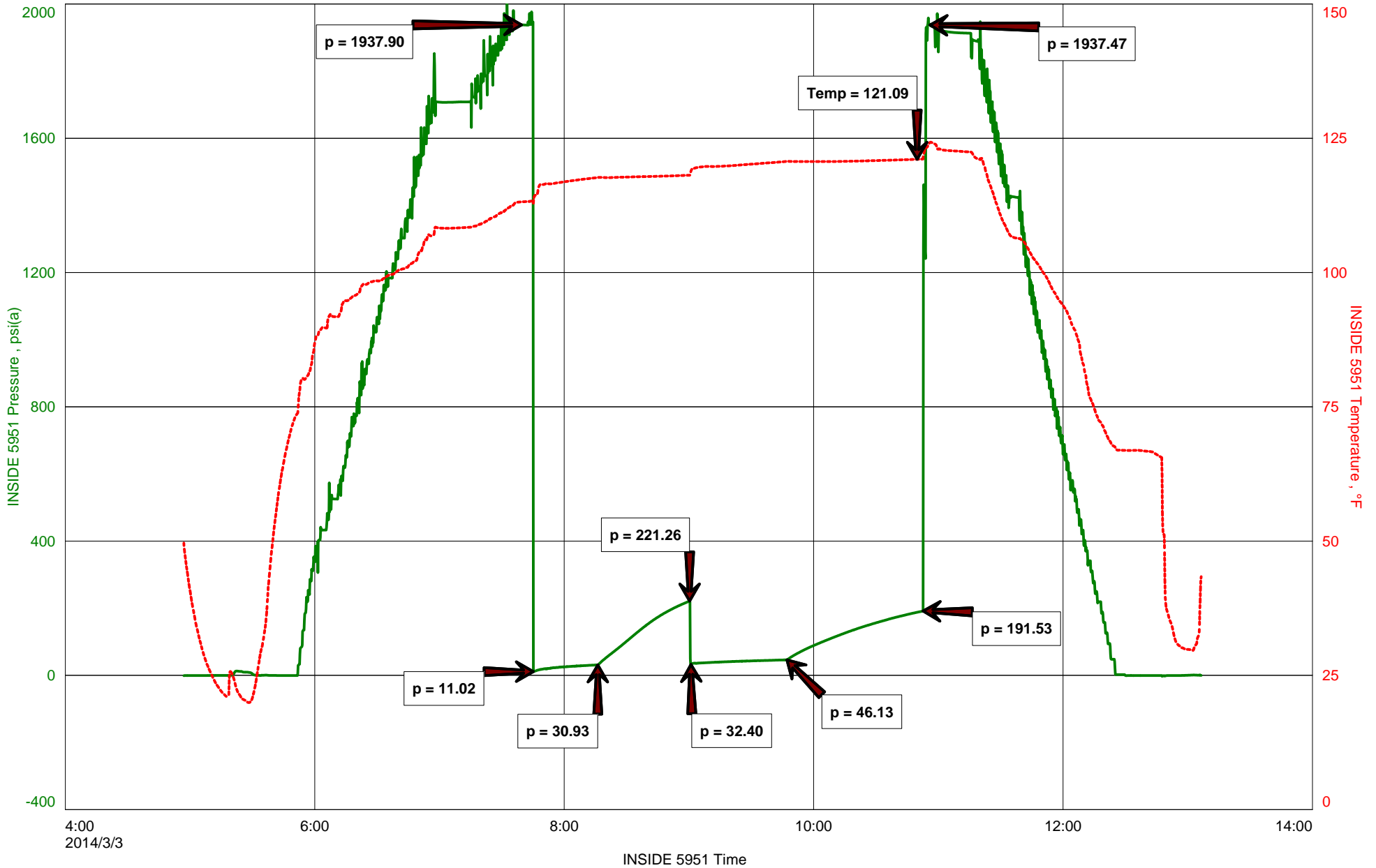
I.H.P.:	1937
I.F.P.:	11-31
I.S.I.P.:	221
F.F.P.:	32-46
F.S.I.P.:	192
F.H.P.:	1937

THANKS!

LD DRILLING INC  
DST #1 MARMATON 4004'-4148'  
Start Test Date: 2014/03/03  
Final Test Date: 2014/03/03

HARLEY #1-30  
Formation: MARMATON 4004'-4148'  
Pool: NA  
Job Number: F253

# HARLEY #1-30





**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: HARLEY1DST1

TIME ON: 4:57 AM  
TIME OFF: 1:06 PM

Company LD DRILLING, INC. Lease & Well No. HARLEY #1-30  
Contractor LD DRILLING, INC. Charge to LD DRILLING, INC.  
Elevation 2607' KB Formation MARMATON Effective Pay FIELD: LUNDGREN Ft. Ticket No. F253  
Date MON 3-3-14 Sec. 30 Twp. 14 S Range 29 W County GOVE State KANSAS  
Test Approved By KIM SHOEMAKER Diamond Representative JAKE FAHRENBRUCH

Formation Test No. ONE Interval Tested from 4004 ft. to 4148 ft. Total Depth 4148 ft.  
Packer Depth 3999 ft. Size 6 3/4 in. Packer depth ----- ft. Size 6 3/4 in.  
Packer Depth 4004 ft. Size 6 3/4 in. Packer depth ----- ft. Size 6 3/4 in.  
Depth of Selective Zone Set -----

Top Recorder Depth (Inside) 3983 ft. Recorder Number 5951 Cap. 5000 P.S.I.  
Bottom Recorder Depth (Outside) 4136 ft. Recorder Number 5584 Cap. 5000 P.S.I.  
Below Straddle Recorder Depth ----- ft. Recorder Number ----- Cap. ----- P.S.I.

Mud Type CHEMICAL Viscosity 50 Drill Collar Length ----- ft. I.D. 2 1/4 in.  
Weight 9.2 Water Loss 6.4 cc. Weight Pipe Length ----- ft. I.D. 2 7/8 in.  
Chlorides 1400 P.P.M. Drill Pipe Length 3971 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number #5 J&J Test Tool Length 33 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NO Reversed Out NO Anchor Length 144 ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. <sup>15' PERF(3TOP,12BTM)</sup> Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: FAIR BLOW, INC TO B.O.B. IN 18 MINUTES. SURFACE BLOW-BACK.  
2nd Open: FAIR BLOW @ 2", INC TO B.O.B. IN 17 MINUTES. BLOW-BACK @ 1".

Recovered        ft. of         
Recovered        ft. of         
Recovered 85' ft. of SGC OCM 5% G, 15% O, 80% M  
Recovered ----- ft. of 240' G.I.P.

Recovered <u>-----</u> ft. of <u>TOOL SAMPLE: HOCM, 30% O, 70% M</u>	Price Job
Recovered <u>      </u> ft. of <u>TEST \$1,225.00</u>	Other Charges
Remarks: <u>JARS &amp; SAFETY-JOINT \$325.00</u>	Insurance
<u>370 M.R.T \$518.00</u>	
<u>TOTAL FOR DST #1 \$2068.00</u>	Total

Time Set Packer(s) 7:50 AM <sup>A.M.</sup> P.M. Time Started Off Bottom 10:50 AM <sup>A.M.</sup> P.M. Maximum Temperature 121 DEG F

Initial Hydrostatic Pressure..... (A) 1937 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 11 P.S.I. to (C) 31 P.S.I.  
Initial Closed In Period..... Minutes 45 (D) 221 P.S.I.  
Final Flow Period..... Minutes 45 (E) 32 P.S.I. to (F) 46 P.S.I.  
Final Closed In Period..... Minutes 60 (G) 192 P.S.I.  
Final Hydrostatic Pressure..... (H) 1937 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.