



# Diamond Testing General Report

**JAKE  
FAHRENBRUCH - TESTER  
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P.O. Box 157  
Hoisington KS 67544  
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## General Information

<b>Company Name</b>	Mull Drilling Co., Inc.	<b>Well Name</b>	Hadden #2-35
<b>Well Operator</b>	Mull Drilling Co., Inc.	<b>Unique Well ID</b>	DST #2 Lower L/KC 3364'-3423'
<b>Contact</b>	Mark Shreve	<b>Surface Location</b>	Sec 35-20s-13w-Barton Co.-KS
<b>Site Contact</b>	Chuck Schmaltz	<b>Test Unit</b>	#5
<b>Field</b>	Schaeffer-Rothgam	<b>Pool</b>	NA
<b>Well Type</b>	Vertical	<b>Job Number</b>	F180
<b>Prepared By</b>	Jake Fahrenbruch	<b>Qualified By</b>	Chuck Schmaltz

## Test Information

<b>Test Type</b>	Bottom-Hole wJ&J	<b>Test Purpose</b>	Initial Test
<b>Formation</b>	Lower L/KC 3364'-3423'	<b>Gauge Name</b>	0062
<b>Start Test Date</b>	2013/09/28	<b>Start Test Time</b>	10:45:00
<b>Final Test Date</b>	2013/09/28	<b>Final Test Time</b>	16:52:00

## Test Results

5 minute initial flow period:	Surface blow, increased to 1".
30 minute initial shut-in period:	No blowback.
45 minute final shut-in period:	2.5" blow, increased to 6".
90 minute final shut-in period:	No blowback.

Recovered:

20'	SW&OCM	5% oil, 5% wtr, 90% mud
-----	100' Gas In Pipe	
-----	Bottom-Hole Temp: 98 Deg F	

Pressures:

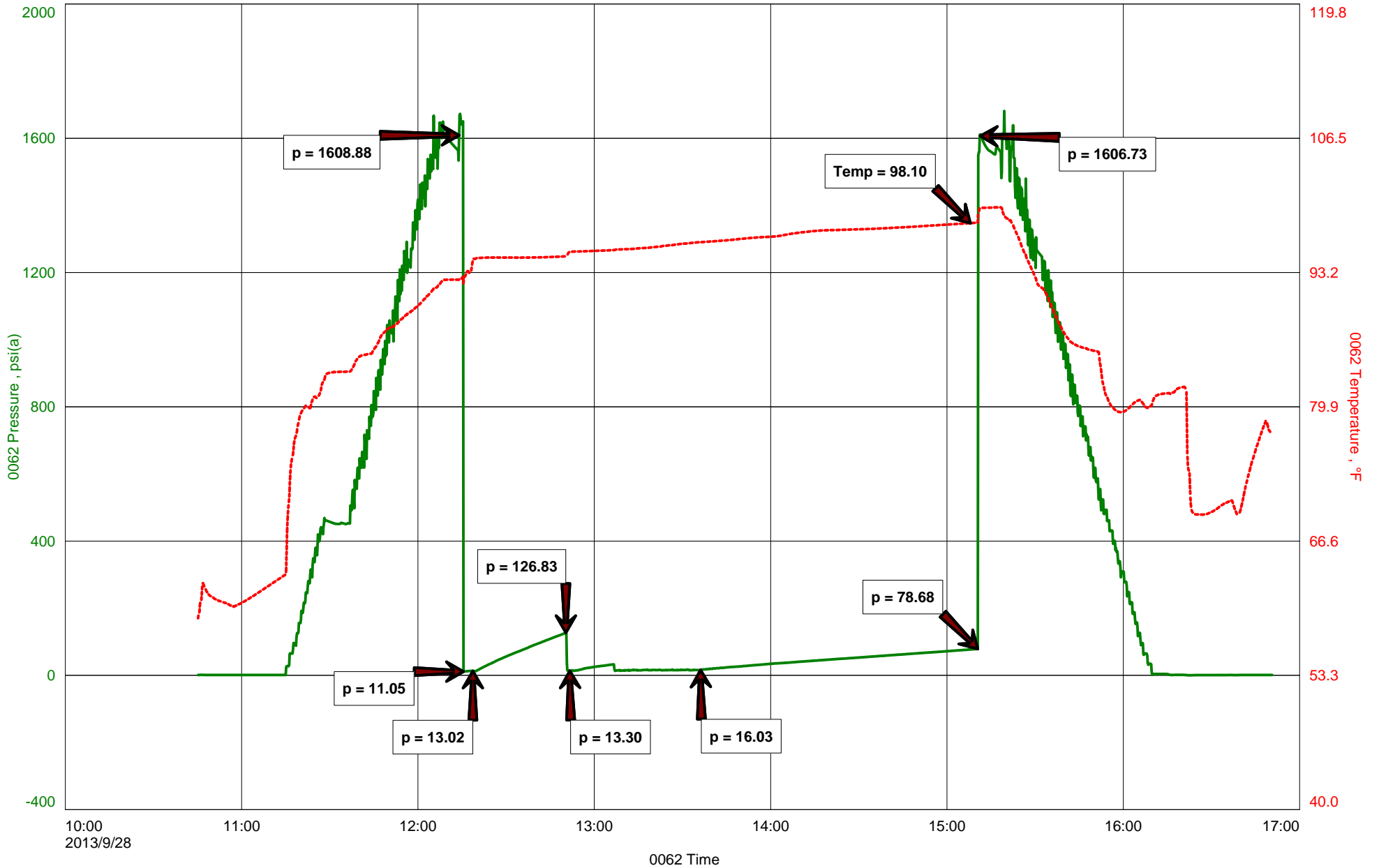
IHP:	1609
IFP:	11 - 13
ISIP:	127
FFP:	13 - 16
FSIP:	79
FHP:	1607

Thanks!

Mull Drilling Co., Inc.  
DST #2 Lower L/KC 3364'-3423'  
Start Test Date: 2013/09/28  
Final Test Date: 2013/09/28

Hadden #2-35  
Formation: Lower L/KC 3364'-3423'  
Pool: NA  
Job Number: F180

# Hadden #2-35





**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: HADDEN2DST2

TIME ON: 10:45 AM  
TIME OFF: 4:52 PM

Company Mull Drilling Co., Inc. Lease & Well No. Hadden #2-35  
Contractor Duke Drilling Rig #8 Charge to Mull Drilling Co., Inc.  
Elevation 1876' KB Formation \_\_\_\_\_ Lower L/KC Effective Pay \_\_\_\_\_ Ft. Ticket No. F180  
Date 9-28-13 Sec. 35 Twp. \_\_\_\_\_ 20 S Range \_\_\_\_\_ 13 W County \_\_\_\_\_ Barton State KANSAS  
Test Approved By Chuck Schmaltz Diamond Representative Jake Fahrenbruch

Formation Test No. TWO Interval Tested from 3364 ft. to 3423 ft. Total Depth 3423 ft.  
Packer Depth 3359 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 3364 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 3343 ft. Recorder Number 0062 Cap. 5,000 P.S.I.  
Bottom Recorder Depth (Outside) 3400 ft. Recorder Number 5951 Cap. 5,000 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type Chemical Viscosity 58 Drill Collar Length \_\_\_\_\_ ft. I.D. 2 1/4 in.  
Weight 9.05 Water Loss 9.2 cc. Weight Pipe Length \_\_\_\_\_ ft. I.D. 2 7/8 in.  
Chlorides 8000 P.P.M. Drill Pipe Length 3331 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 59 ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. <sup>25' PERF (2'top, 23'btm)</sup> Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Surface blow, increased to 1" in bucket. No blowback.  
2nd Open: 2.5" blow, increased to 6" in bucket. No blowback.

Recovered 20 ft. of SW&OCM 5% oil, 5% wtr, 90% mud  
Recovered \_\_\_\_\_ ft. of 100' Gas In Pipe  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
_____	Total

Time Set Packer(s) 12:16 PM A.M. P.M. Time Started Off Bottom 3:06 PM A.M. P.M. Maximum Temperature 98 Deg F

Initial Hydrostatic Pressure..... (A) 1609 P.S.I.  
Initial Flow Period..... Minutes 5 (B) 11 P.S.I. to (C) 13 P.S.I.  
Initial Closed In Period..... Minutes 30 (D) 127 P.S.I.  
Final Flow Period..... Minutes 45 (E) 13 P.S.I. to (F) 16 P.S.I.  
Final Closed In Period..... Minutes 90 (G) 79 P.S.I.  
Final Hydrostatic Pressure..... (H) 1607 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.