



Diamond Testing General Report

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

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

General Information

Company Name	Mull Drilling Co., Inc.	Well Name	Hadden #2-35
Well Operator	Mull Drilling Co., Inc.	Unique Well ID	DST #1 Upper L/KC 3238'-3327'
Contact	Mark Shreve	Surface Location	Sec 35-20s-13w-Barton Co.-KS
Site Contact	Chuck Schmaltz	Test Unit	#5
Field	Schaeffer-Rothgam	Pool	NA
Well Type	Vertical	Job Number	F179
Prepared By	Jake Fahrenbruch	Qualified By	Chuck Schmaltz

Test Information

Test Type	Bottom-Hole w/Jars & Joint	Test Purpose	Initial Test
Formation	Upper L/KC 3238'-3327'	Gauge Name	0062
Start Test Date	2013/09/27	Start Test Time	16:28:00
Final Test Date	2013/09/28	Final Test Time	00:05:00

Test Results

5 minute initial flow period:	Strong blow off B.O.B. in 2 minutes.
30 minute initial shut-in period:	No blowback.
45 minute final flow period:	Strong blow off B.O.B. immediately. Gas to surface in 41 minutes, too small to measure.
90 minute final shut-in period:	No blowback.

Recovered:

100' HOCM 20% oil, 80% mud
60' SWCMO 50% oil, 10% wtr, 40% mud
----- Total Recovered Fluid: 160'
----- Gas in all fluid free pipe.
----- No check on water, not enough for a sample:
----- Bottom-Hole Temp: 101 Deg F

Pressures:

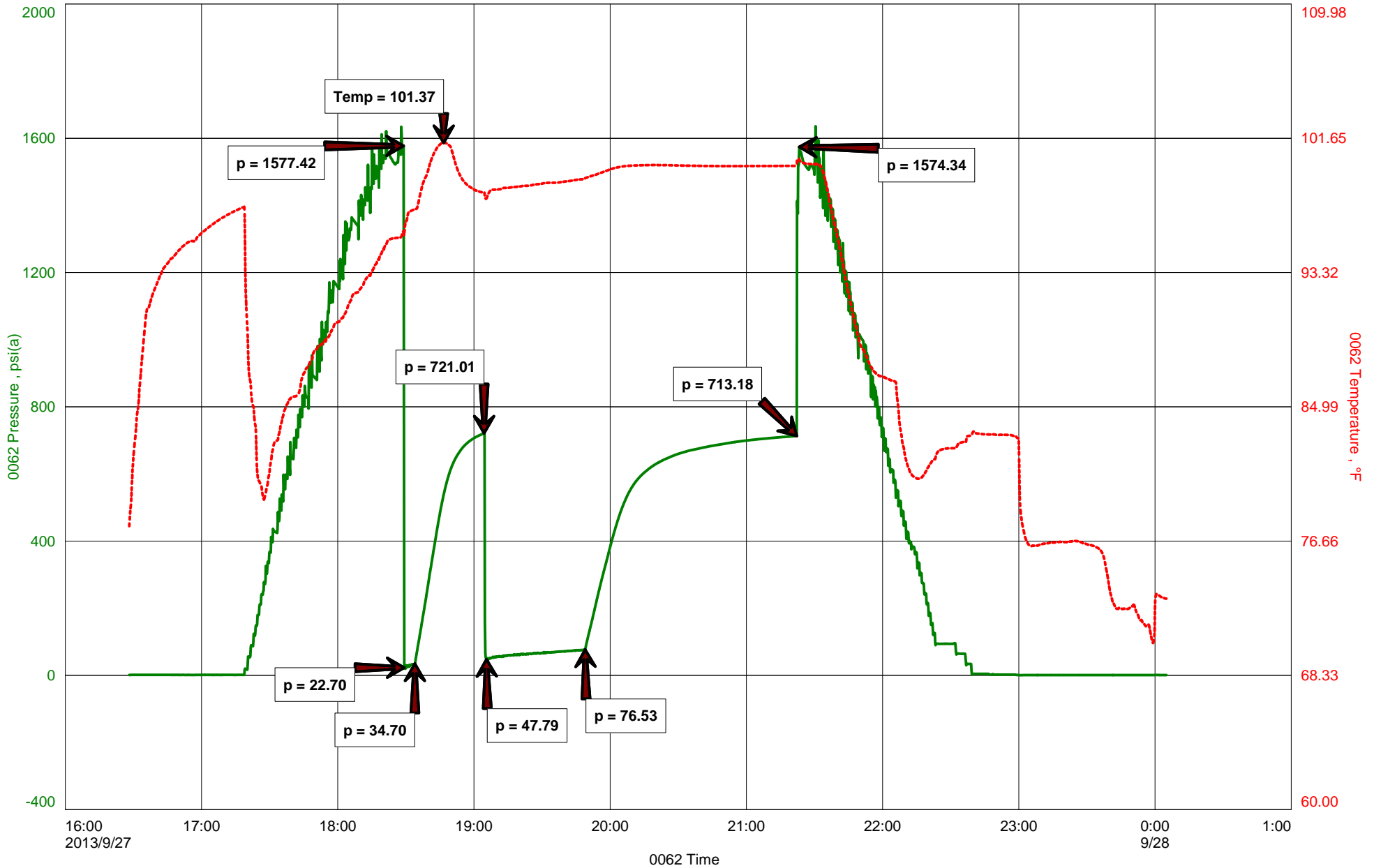
IHP: 1577
IFP: 23 - 35
ISIP: 721
FFP: 48 - 77
FSIP: 713
FHP: 1574

Thanks!

Mull Drilling Co., Inc.
DST #1 Upper L/KC 3238'-3327'
Start Test Date: 2013/09/27
Final Test Date: 2013/09/28

Hadden #2-35
Formation: Upper L/KC 3238'-3327'
Pool: NA
Job Number: F179

Hadden #2-35





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: HADDEN2DST1

TIME ON: 4:28 PM
TIME OFF: 12:00 AM 9-28

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 _____ Upper L/KC Effective Pay _____ Ft. Ticket No. F179
Date 9-27-13 Sec. 35 Twp. _____ 20 S Range _____ 13 W County _____ Barton State KANSAS
Test Approved By Chuck Schmaltz Diamond Representative Jake Fahrenbruch

Formation Test No. ONE Interval Tested from 3238 ft. to 3327 ft. Total Depth 3327 ft.
Packer Depth 3233 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3238 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3217 ft. Recorder Number 0062 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 3306 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 54 Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight 9.2 Water Loss 9.2 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides 6500 P.P.M. Drill Pipe Length 3205 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? GTS TSTM Reversed Out NO Anchor Length 89 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. ^{23' PERF (2' top, 21' btm)} Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: String blow off B.O.B. in 2 minutes. No blowback.
2nd Open: Strong blow off B.O.B. immediately, GTS in 41 minutes, TSTM. No blowback.

Recovered 100 ft. of HOCM 20% oil, 80% mud
Recovered 60 ft. of SWCMO 50% oil, 10% wtr, 40% mud
Recovered _____ ft. of Gas in all fluid free pipe.
Recovered _____ ft. of Total recovered fluid: 160'
Recovered _____ ft. of No check on water, not enough for a sample.

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

Time Set Packer(s) 6:29 PM A.M. P.M. Time Started Off Bottom 9:19 PM A.M. P.M. Maximum Temperature 101 Deg F

Initial Hydrostatic Pressure..... (A) 1577 P.S.I.
Initial Flow Period..... Minutes 5 (B) 23 P.S.I. to (C) 35 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 721 P.S.I.
Final Flow Period..... Minutes 45 (E) 48 P.S.I. to (F) 77 P.S.I.
Final Closed In Period..... Minutes 90 (G) 713 P.S.I.
Final Hydrostatic Pressure..... (H) 1574 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.