



Diamond Testing General Report

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

P.O. Box 157
Hoisington KS 67544
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General Information

Company Name	Mull Drilling Co., Inc.	Well Name	Hadden #2-35
Well Operator	Mull Drilling Co., Inc.	Unique Well ID	DST #3 Base KC 3424'-3472'
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	F181
Prepared By	Jake Fahrenbruch	Qualified By	Chuck Schmaltz

Test Information

Test Type	Bottom-Hole w/J&J	Test Purpose	Initial Test
Formation	Base KC 3424'-3472'	Gauge Name	0062
Start Test Date	2013/09/29	Start Test Time	01:19:00
Final Test Date	2013/09/29	Final Test Time	09:31:00

Test Results

5 minute initial flow period:	Surface blow, increased ti 1.75" in bucket.
30 minute initial shut-in period:	No blowback.
60 minute final flow period:	Surface blow, increased to B.O.B. in 20 minutes.
120 minute final shut-in period:	No blowback.

Recovered:

65' GCOilyMud 15% G, 35% O, 50% M
 ----- 250' GAS IN PIPE
 ----- Bottom-Hole Temp: 100 Deg F

Pressures:

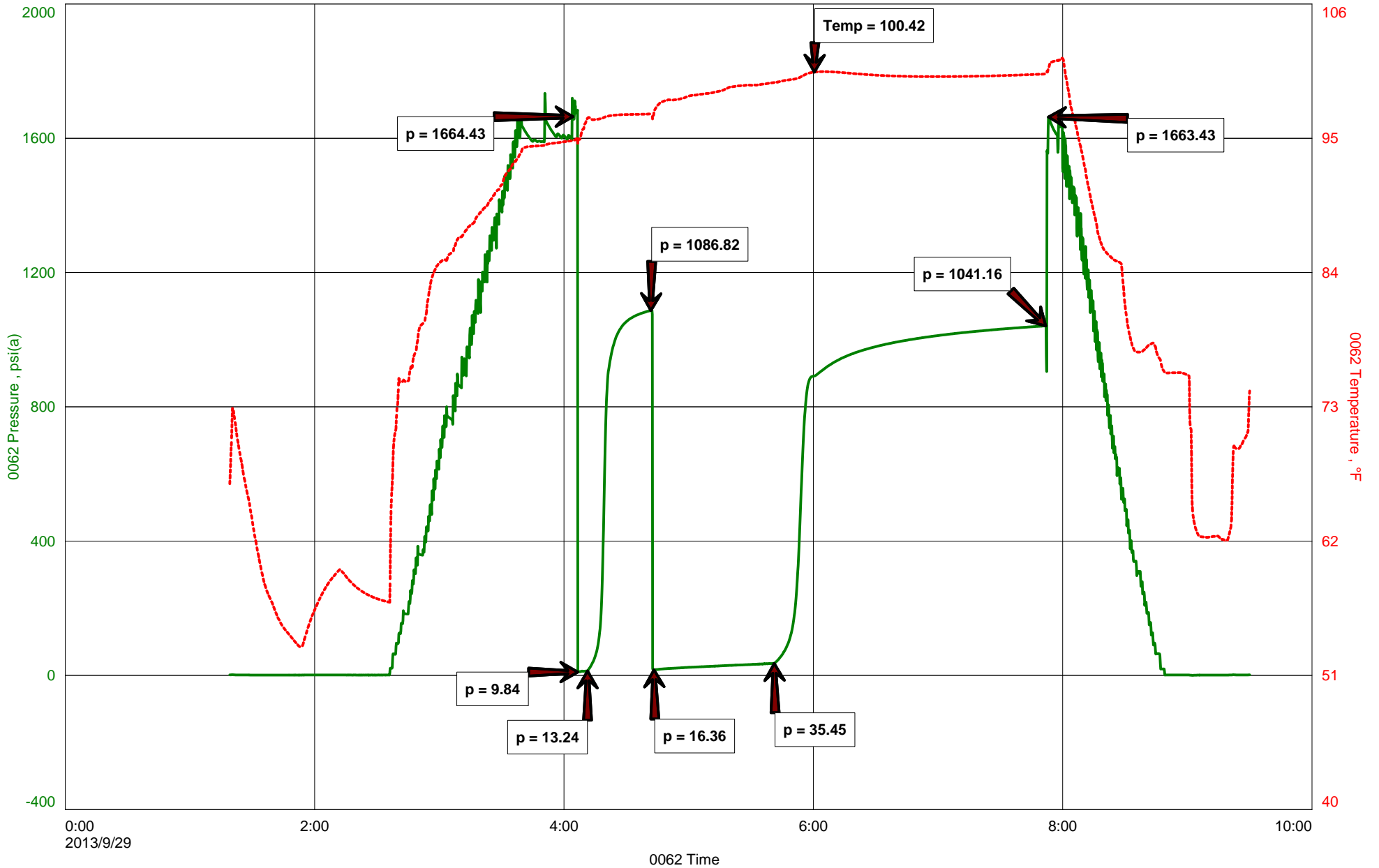
IHP: 1664
 IFP: 10 - 13
 ISIP: 1087
 FFP: 16 - 35
 FSIP: 1041
 FHP: 1663

Thanks!

Mull Drilling Co., Inc.
DST #3 Base KC 3424'-3472'
Start Test Date: 2013/09/29
Final Test Date: 2013/09/29

Hadden #2-35
Formation: Base KC 3424'-3472'
Pool: NA
Job Number: F181

Hadden #2-35





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: HADDEN2DST3

TIME ON: 1:19 AM
TIME OFF: 9:31 AM

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 _____ Base KS Effective Pay _____ Ft. Ticket No. F181
Date 9-29-13 Sec. 35 Twp. _____ 20 S Range _____ 13 W County _____ Barton State KANSAS
Test Approved By Chuck Schmaltz Diamond Representative Jake Fahrenbruch

Formation Test No. THREE Interval Tested from 3424 ft. to 3472 ft. Total Depth 3472 ft.
Packer Depth 3419 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3424 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3403 ft. Recorder Number 0062 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 3430 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 56 Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight 9.3 Water Loss 9.2 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides 8000 P.P.M. Drill Pipe Length 3381 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 48 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. ^{14"PERF(4"top, 10"btm)} Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Surface blow, increased to 1.75" in bucket. No blowback.
2nd Open: Surface blow, increased to B.O.B. in 20 minutes. No blowback.

Recovered 65 ft. of GCOilyMud 15% G, 35% O, 50% M
Recovered _____ ft. of 250' 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) 4:07 AM A.M. P.M. Time Started Off Bottom 7:42 AM A.M. P.M. Maximum Temperature 100 Deg F

Initial Hydrostatic Pressure..... (A) 1664 P.S.I.
Initial Flow Period..... Minutes 5 (B) 10 P.S.I. to (C) 13 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 1087 P.S.I.
Final Flow Period..... Minutes 60 (E) 16 P.S.I. to (F) 35 P.S.I.
Final Closed In Period..... Minutes 120 (G) 1041 P.S.I.
Final Hydrostatic Pressure..... (H) 1663 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.