

DIAMOND TESTING

General Information Report

General Information

Company Name MULL DRILLING COMPANY, INC.
Contact MARK SHREVE
Well Name HENNING-MCDONALD UNIT #1-21
Unique Well ID DST #3, MISSISSIPPIAN, 4250-4330
Surface Location SEC 21-15S-23W, TREGO CO. KS.
Field WILDCAT
Well Type Vertical
Test Type CONVENTIONAL
Formation DST #3, MISSISSIPPIAN, 4250-4330
Well Fluid Type 01 Oil

Representative TIM VENTERS
Well Operator MULL DRILLING COMPANY, INC.
Report Date 2013/11/15
Prepared By TIM VENTERS
Qualified By KEVIN KESSLER

Start Test Date 2013/11/15
Final Test Date 2013/11/15

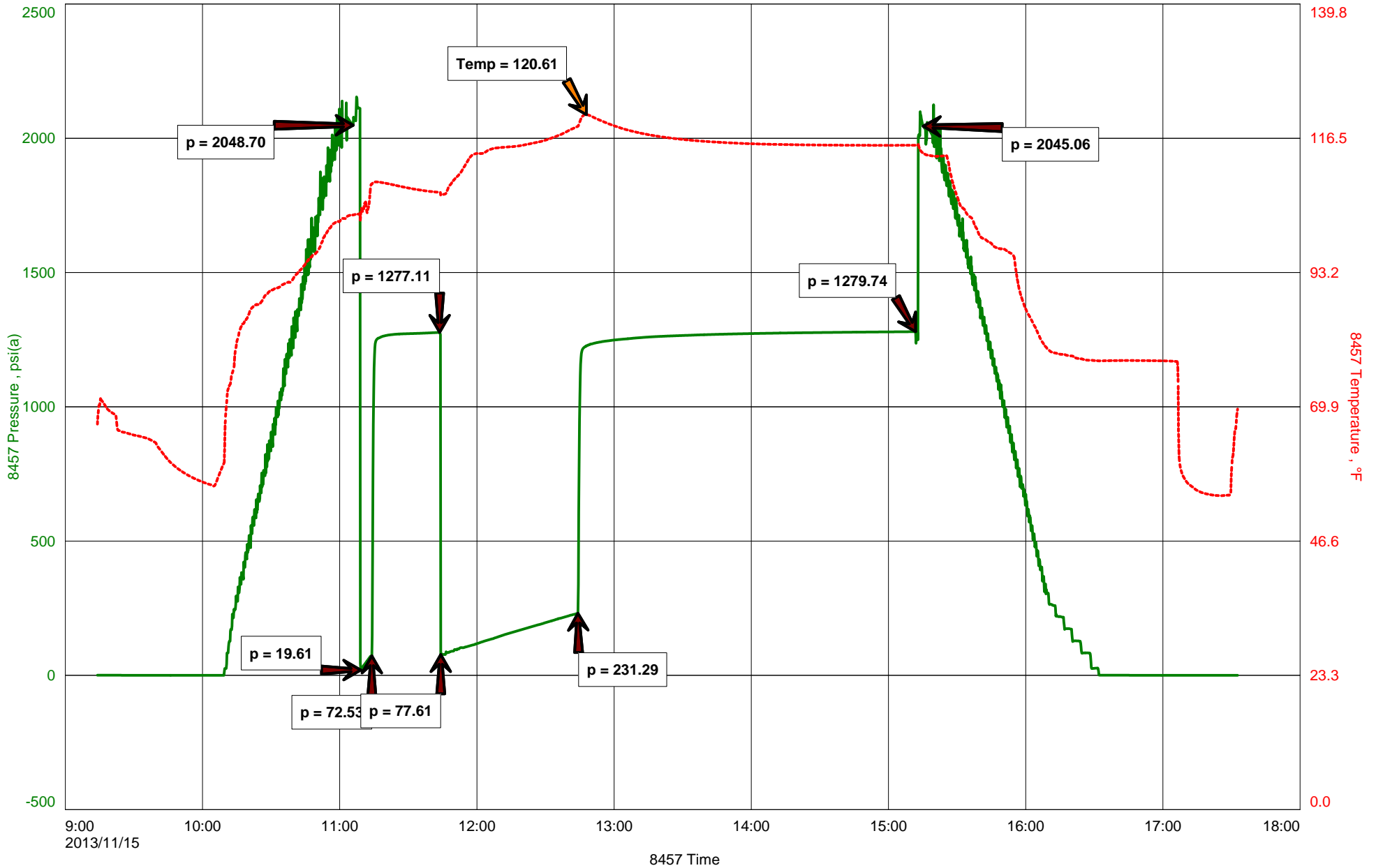
Start Test Time 09:14:00
Final Test Time 17:33:00

Test Recovery:

RECOVERED: 125' GAS IN PIPE
60' CO, 100% OIL, GRAVITY: 31
190' SOCM, 11% OIL, 89% MUD
65' G,HOCM, 7% GAS, 34% OIL, 54% MUD
250' G,SMCO, 2% GAS, 81% OIL, 17% MUD
560' TOTAL FLUID

TOOL SAMPLE: 43% OIL, 57% MUD

HENNING-MCDONALD UNIT #1-21





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313

TIME ON: 09:14
TIME OFF: 17:33

DRILL-STEM TEST TICKET
FILE: HENNING-MCDONALDUNIT1-21DST3

Company MULL DRILLING COMPANY, INC. Lease & Well No. HENNING-MCDONALD UNIT #1-21
Contractor WW DRILLING, LLC RIG #10 Charge to MULL DRILLING COMPANY, INC.
Elevation 2352 KB Formation MISSISSIPPIAN Effective Pay _____ Ft. Ticket No. T282
Date 11-15-13 Sec. 21 Twp. _____ 15 S Range _____ 23 W County TREGO State KANSAS
Test Approved By KEVIN KESSLER Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 3 Interval Tested from 4250 ft. to 4330 ft. Total Depth 4330 ft.
Packer Depth 4245 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4250 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
Top Recorder Depth (Inside) 4231 ft. Recorder Number 8457 Cap. 10,000 P.S.I.
Bottom Recorder Depth (Outside) 4327 ft. Recorder Number 11030 Cap. 5,025 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 49 Drill Collar Length 124 ft. I.D. 2 1/4 in.
Weight 9.4 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 8,300 P.P.M. Drill Pipe Length 4093 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 17 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. ^{63' DP IN ANCHOR} Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK 1/2 INCH BLOW, BUILDING TO 4 INCHES. (WS BB)
2nd Open: WEAK 1/2 INCH BLOW, BUILDING, REACHING BOB 14 MIN. (1/2" BB)

Recovered <u>125</u> ft. of <u>GAS IN PIPE</u>	
Recovered <u>60</u> ft. of <u>CO, 100% OIL, GRAVITY: 31</u>	
Recovered <u>190</u> ft. of <u>SOCM, 11% OIL, 89% MUD</u>	
Recovered <u>65</u> ft. of <u>G,HOCM, 7% GAS, 34% OIL, 54% MUD</u>	
Recovered <u>250</u> ft. of <u>G,SMCO, 2% GAS, 81% OIL, 17% MUD</u>	Price Job
Recovered <u>560</u> ft. of <u>TOTAL FLUID</u>	Other Charges
Remarks: _____	Insurance
TOOL SAMPLE: <u>43% OIL, 57% MUD</u>	Total

Time Set Packer(s) 11:08 AM A.M. P.M. Time Started Off Bottom 3:11 PM A.M. P.M. Maximum Temperature 121 deg.
Initial Hydrostatic Pressure..... (A) 2049 P.S.I.
Initial Flow Period..... Minutes 5 (B) 20 P.S.I. to (C) 73 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 1277 P.S.I.
Final Flow Period..... Minutes 60 (E) 78 P.S.I. to (F) 231 P.S.I.
Final Closed In Period..... Minutes 148 (G) 1280 P.S.I.
Final Hydrostatic Pressure..... (H) 2045 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.