

DIAMOND TESTING

General Information Report

General Information

Company Name MULL DRILLING COMPANY, INC.
Contact MARK SHREVE
Well Name RUFENACHT #1-11
Unique Well ID DST #4, CHEROKEE SD., 4408-4463
Surface Location SEC 11-17S-24W, NESS CO. KS.
Field YOST
Well Type Vertical
Test Type STRADDLE
Formation DST #4, CHEROKEE SD., 4408-4463
Well Fluid Type 01 Oil

Representative TIM VENTERS
Well Operator MULL DRILLING COMPANY, INC.
Report Date 2014/02/15
Prepared By TIM VENTERS
Qualified By KEVIN KESSLER

Start Test Date 2014/02/15
Final Test Date 2014/02/16

Start Test Time 16:13:00
Final Test Time 00:06:00

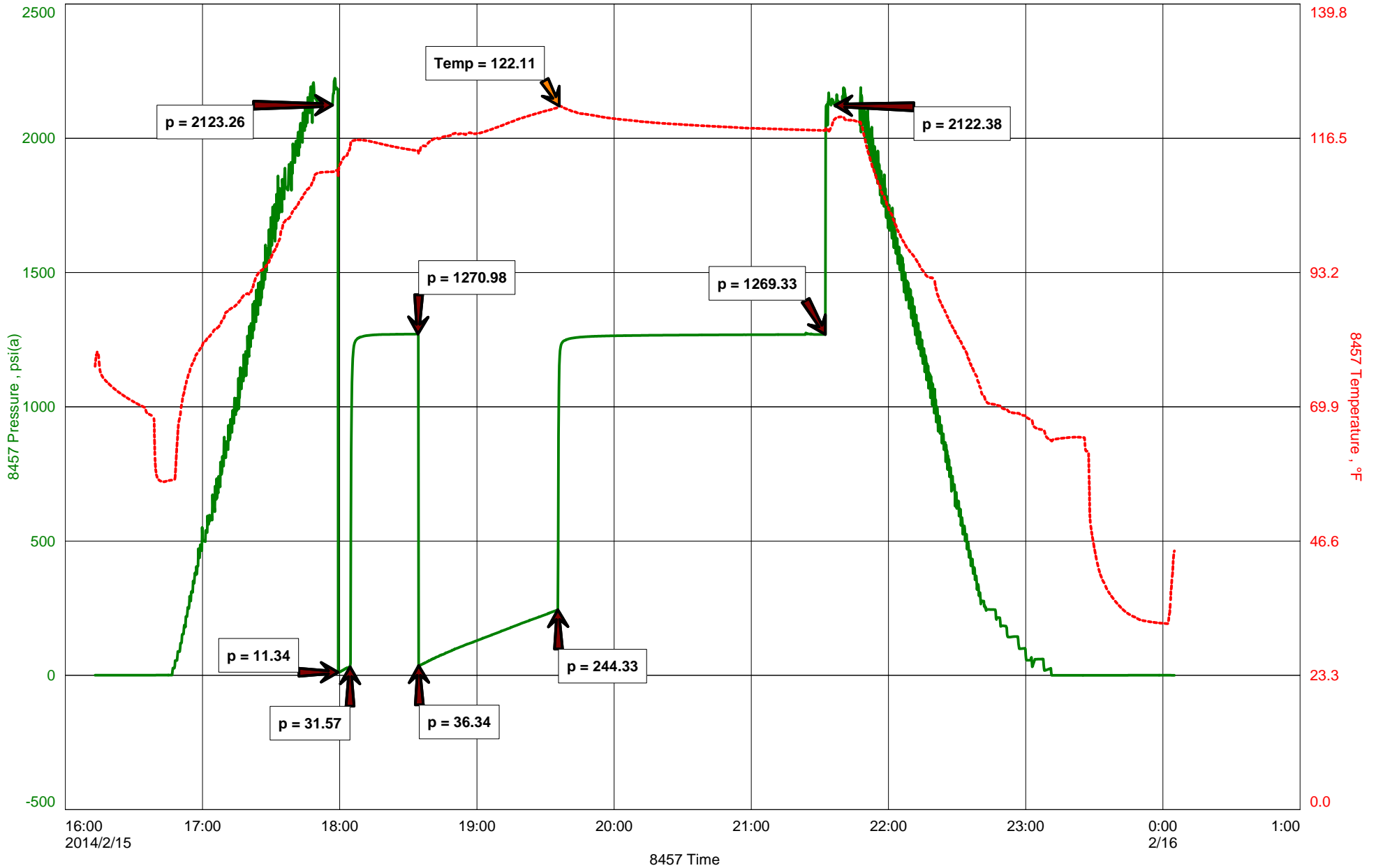
Test Recovery:

RECOVERED: 145' OCM, 27% OIL, 78% MUD
190' SO,WCM, 13% OIL, 35% WATER, 52% MUD
190' SO&MCW, 6% OIL, 78% WATER, 16% MUD
525' TOTAL FLUID

TOOL SAMPLE: 6% OIL, 90% WATER, 4% MUD

CHLORIDES: 17,000 ppm
PH: 7.0
RW: .43 @ 72 deg.

RUFENACHT #1-11





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: RUFENACHT1-11DST4

TIME ON: 16:13 2-15-14
TIME OFF: 00:06 2-16-14

Company MULL DRILLING COMPANY, INC. Lease & Well No. RUFENACHT #1-11
Contractor DUKE DRILLING COMPANY, INC. RIG #8 Charge to MULL DRILLING COMPANY, INC.
Elevation 2488 KB Formation CHEROKEE SD. Effective Pay _____ Ft. Ticket No. T314
Date 2-15-14 Sec. 11 Twp. 17 S Range 24 W County NESS State KANSAS
Test Approved By KEVIN KESSLER Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 4 Interval Tested from 4408 ft. to 4463 ft. Total Depth 4580 ft.
Packer Depth 4403 ft. Size 6 3/4 in. Packer depth 4463 ft. Size 6 3/4 in.
Packer Depth 4408 ft. Size 6 3/4 in. Packer depth 4468 ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4389 ft. Recorder Number 8457 Cap. 10,000 P.S.I.
Bottom Recorder Depth (Outside) 4460 ft. Recorder Number 11030 Cap. 5,025 P.S.I.
Below Straddle Recorder Depth 4577 ft. Recorder Number 11029 Cap. 5,025 P.S.I.

Mud Type CHEMICAL Viscosity 56 Drill Collar Length 0 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 5,000 P.P.M. Drill Pipe Length 4375 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 23 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. ^{32' DP IN ANCHOR} Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK SURFACE BLOW, BUILDING TO 4 INCHES. (NO BB)
2nd Open: VERY WEAK SURFACE BLOW, BUILDING, REACHING BOB 10 1/2 MIN. (NO BB)

Recovered 145 ft. of OCM, 27% OIL, 73% MUD
Recovered 190 ft. of SO,WCM, 13% OIL, 35% WATER, 52% MUD
Recovered 190 ft. of SO&MCW, 6% OIL, 78% WATER, 16% MUD
Recovered 525 ft. of TOTAL FLUID

Recovered _____ ft. of _____	CHLORIDES: 17,000 ppm	Price Job
Recovered _____ ft. of _____	PH: 7.0	Other Charges
Remarks: _____	RW: .43 @ 72 deg.	Insurance
TOOL SAMPLE: 6% OIL, 90% WATER, 4% MUD		Total

Time Set Packer(s) 5:59 PM ^{A.M.}/_{P.M.} Time Started Off Bottom 9:34 PM ^{A.M.}/_{P.M.} Maximum Temperature 122 deg.

Initial Hydrostatic Pressure..... (A) 2123 P.S.I.
Initial Flow Period..... Minutes 5 (B) 11 P.S.I. to (C) 32 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 1271 P.S.I.
Final Flow Period..... Minutes 60 (E) 36 P.S.I. to (F) 244 P.S.I.
Final Closed In Period..... Minutes 120 (G) 1269 P.S.I.
Final Hydrostatic Pressure..... (H) 2122 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.