

# DIAMOND TESTING

## General Information Report

### General Information

<b>Company Name</b>	MULL DRILLING COMPANY, INC.	<b>Representative</b>	TIM VENTERS
<b>Contact</b>	MARK SHREVE	<b>Well Operator</b>	MULL DRILLING COMPANY, INC.
<b>Well Name</b>	THOMPSON #1-1	<b>Report Date</b>	2014/10/27
<b>Unique Well ID</b>	DST #3, CHEROKEE, 4267-4362	<b>Prepared By</b>	TIM VETERS
<b>Surface Location</b>	SEC 1-16S-23W, NESS CO. KS.	<b>Qualified By</b>	TYLER SANDERS
<b>Field</b>	WILDCAT		
<b>Well Type</b>	Vertical		
<b>Test Type</b>	CONVENTIONAL		
<b>Formation</b>	DST #3, CHEROKEE, 4267-4362		
<b>Well Fluid Type</b>	01 Oil		
<b>Start Test Date</b>	2014/10/27	<b>Start Test Time</b>	07:06:00
<b>Final Test Date</b>	2014/10/27	<b>Final Test Time</b>	15:43:00

### Test Recovery:

RECOVERED: 105' GAS IN PIPE  
90' GO, 3% GAS, 97% OIL, GRAVITY: 29  
360' G, SW&MCO, 2% GAS, 85% OIL, 1% WATER, 12% MUD  
65' G, HOCM, 3% GAS, 43% OIL, 54% MUD  
255' G, SW&MCO, 15% GAS, 55% OIL, 14% WATER, 16% MUD  
770' TOTAL FLUID

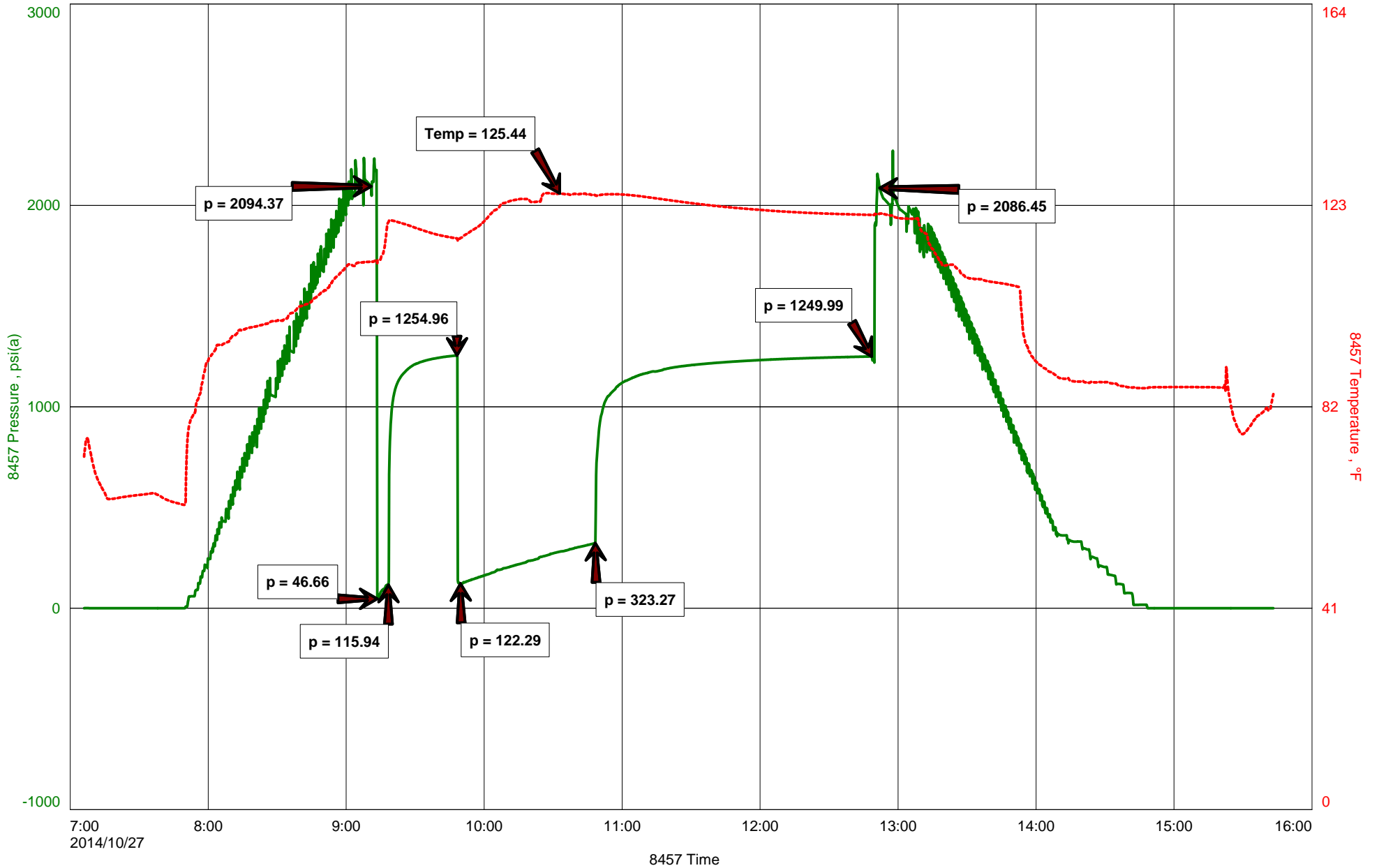
TOOL SAMPLE: 9% GAS, 57% OIL, 13% WATER, 21% MUD

CHLORIDES: 13,000 ppm  
PH: 6.5  
RW: .42 @ 78 deg.

MULL DRILLING COMPANY, INC.  
DST #3, CHEROKEE, 4267-4362  
Start Test Date: 2014/10/27  
Final Test Date: 2014/10/27

THOMPSON #1-1  
Formation: DST #3, CHEROKEE, 4267-4362  
Pool: WILDCAT  
Job Number: T412

# THOMPSON #1-1





**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: THOMPSON1-1DST3

TIME ON: 07:06  
TIME OFF: 15:43

Company MULL DRILLING COMPANY, INC. Lease & Well No. THOMPSON #1-1  
Contractor WW DRILLING, LLC RIG #4 Charge to MULL DRILLING COMPANY, INC.  
Elevation 2394 KB Formation CHEROKEE Effective Pay \_\_\_\_\_ Ft. Ticket No. T412  
Date 10-27-14 Sec. 1 Twp. 16 S Range 23 W County NESS State KANSAS  
Test Approved By TYLER SANDERS Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 3 Interval Tested from 4267 ft. to 4362 ft. Total Depth 4362 ft.  
Packer Depth 4262 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 4267 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 4253 ft. Recorder Number 8457 Cap. 10,000 P.S.I.  
Bottom Recorder Depth (Outside) 4359 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 64 Drill Collar Length 120 ft. I.D. 2 1/4 in.  
Weight 9.4 Water Loss 8.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 6,100 P.P.M. Drill Pipe Length 4119 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number STY. JT. Test Tool Length 28 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NO Reversed Out NO Anchor Length 33 ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. <sup>62' DP IN ANCHOR</sup> Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK 1/2 INCH BLOW, BUILDING TO 9 1/2 INCHES. (NO BB)  
2nd Open: WEAK 1/4 INCH BLOW, BUILDING, REACHING BOB 7 1/2 MIN. (NO BB)

Recovered <u>105</u> ft. of <u>GAS IN PIPE</u>	
Recovered <u>90</u> ft. of <u>GO, 3% GAS, 97% OIL, GRAVITY: 29</u>	
Recovered <u>360</u> ft. of <u>G, SW&amp;MCO, 2% GAS, 85% OIL, 1% WATER, 12% MUD</u>	
Recovered <u>65</u> ft. of <u>G, HOCM, 3% GAS, 43% OIL, 54% MUD</u>	
Recovered <u>255</u> ft. of <u>G, SW&amp;MCO, 15% GAS, 55% OIL, 14% WATER, 16% MUD</u>	Price Job
Recovered <u>770</u> ft. of <u>TOTAL FLUID</u> CHLORIDES: <u>13,000</u> ppm	Other Charges
Remarks: _____ PH: <u>6.5</u>	Insurance
_____ RW: <u>.42 @ 78 deg.</u>	
TOOL SAMPLE: <u>9% GAS, 57% OIL, 13% WATER, 21% MUD</u>	Total

Time Set Packer(s) 9:13 AM <sup>A.M.</sup> P.M. Time Started Off Bottom 12:48 PM <sup>A.M.</sup> P.M. Maximum Temperature 125 deg.

Initial Hydrostatic Pressure..... (A) 2094 P.S.I.  
Initial Flow Period..... Minutes 5 (B) 47 P.S.I. to (C) 116 P.S.I.  
Initial Closed In Period..... Minutes 30 (D) 1255 P.S.I.  
Final Flow Period..... Minutes 60 (E) 122 P.S.I. to (F) 323 P.S.I.  
Final Closed In Period..... Minutes 120 (G) 1250 P.S.I.  
Final Hydrostatic Pressure..... (H) 2086 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.