

# DIAMOND TESTING

## Pressure Survey Report

### General Information

Company Name	MULL DRLG CO. INC.	Job Number	M603
Well Name	APC-BETTY #1-27	Representative	MIKE COCHRAN
Unique Well ID	DST#4 4544-4600 MARMATON-FT.SCOTT	Well Operator	MULL DRLG CO. INC.
Surface Location	SEC.27-16S-45W CHEYENNE CO.CO.	Report Date	2014/01/19
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	PHIL ASKEY
	Test Unit		NO. 3

### Test Information

Test Type	CONVENTIONAL		
Formation	DST#4 4544-4600 MARMATON-FT.SCOTT		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2014/01/19	Start Test Time	02:05:00
Final Test Date	2014/01/19	Final Test Time	10:45:00
	Well Fluid Type		01 Oil
Gauge Name	0063		
Gauge Serial Number			

### Test Results

#### Remarks RECOVERED:

221' GO 2% GAS, 98% OIL  
160' GHOCM 5% GAS, 19% CLEAN OIL, 2% EMULSIFIED OIL,74% MUD  
184' GO 4% GAS, 96% OIL  
565' TOTAL FLUID

GRAVITY: 37.0 @ 60 DEG

TOOL SAMPLE: TOOL SAMPLE: 2% GAS, 21% CLEAN OIL, 42% EMULSIFIED OIL,35% MUD



**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: APCBTTY1-27DST4

TIME ON: 0205  
TIME OFF: 1045

Company MULL DRLG CO. INC. Lease & Well No. APC-BETTY #1-27  
Contractor MURFIN 20 Charge to MULL DRLG CO. INC.  
Elevation 4227 GL Formation MARMATON-FT.SCOTT Effective Pay \_\_\_\_\_ Ft. Ticket No. M603  
Date 1/19/2014 Sec. 27 Twp. \_\_\_\_\_ 16 S Range \_\_\_\_\_ 45 W County CHEYENNE COLORADO State KANSAS  
Test Approved By PHIL ASKEY Diamond Representative MIKE COCHRAN

Formation Test No. 4 Interval Tested from 4544 4600 4600

4539 NA  
4544 NA

4533 0063 6,000  
4546 E1150 5,000

CHEM 55 184  
9.2 8.0 0  
3,500 4335  
NA 25  
NO NO 56  
XH (32'DP)

**NO BLOW FOR ~30 SEC THEN BOB IN 10 SEC, GTS, DID BURN NICELY\***  
**BOB 21 SEC**

221 GO 2% GAS, 98% OIL (221' DP) GRAVITY:37.0 @ 60°  
160 GHOCM 5% GAS, 19% CLEAN OIL, 2% EMULSIFIED OIL,74% MUD (160'DP)  
184 GO 4% GAS, 96% OIL (184' DC)  
565 TOTAL FLUID

**\*SEE ATTACHED GAS REPORT**

**BLEW RECOVERY UP PIPE 1575' (OILY MUD)**

**TOOL SAMPLE 2% GAS, 21% CLEAN OIL, 42% EMULSIFIED OIL 35% MUD**

**4:40 A.M.**

**7:30 A.M.**

**147°F**

**2109**

**5 384 263**

**30 1189**

**45 224 329**

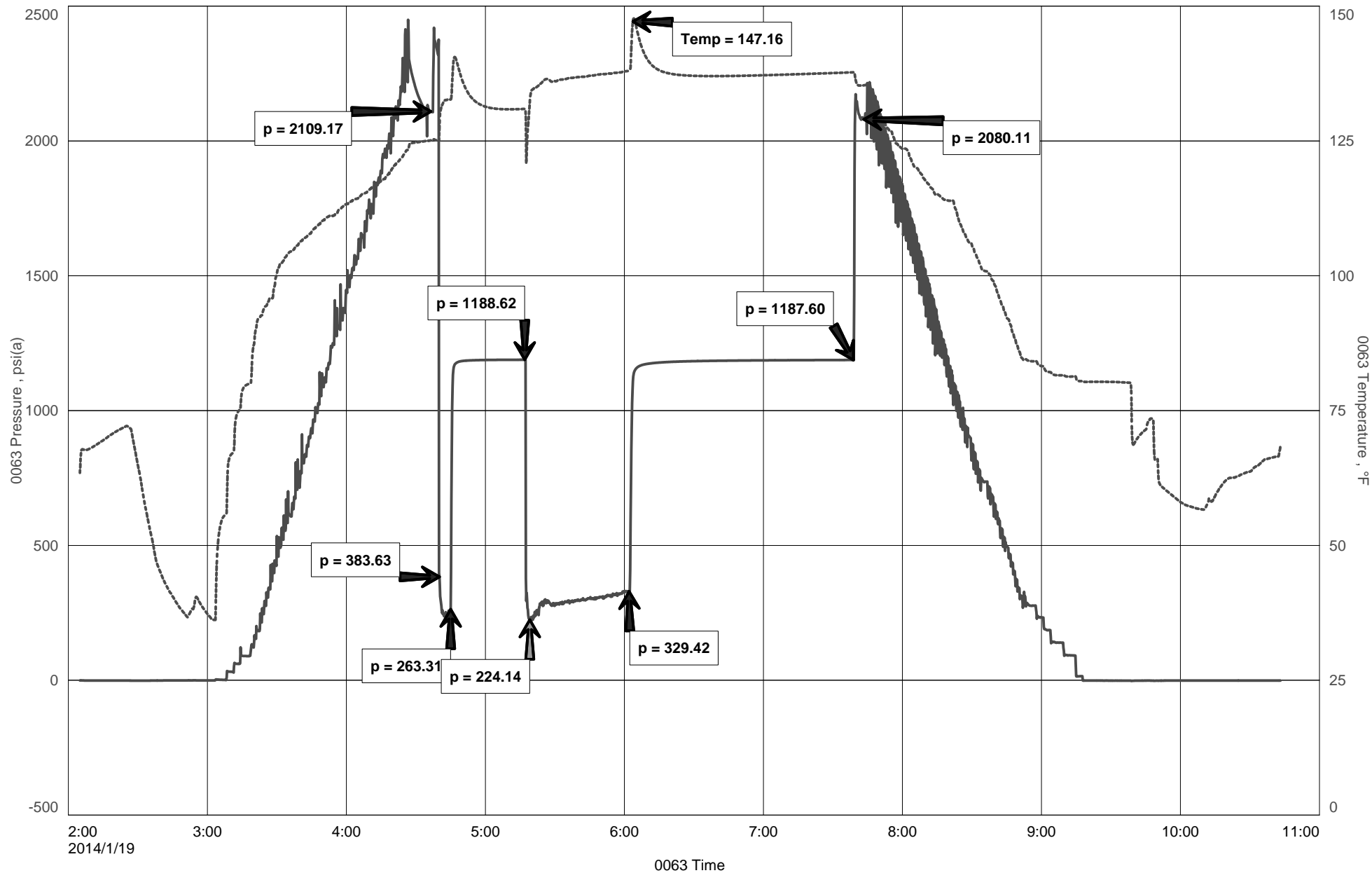
**90 1188**

**2080**

MULL DRLG CO. INC.  
DST#4 4544-4600 MARMATON-FT.SCOTT  
Start Test Date: 2014/01/19  
Final Test Date: 2014/01/19

APC-BETTY #1-27  
Formation: DST#4 4544-4600 MARMATON-FT.SCOTT  
Pool: WILDCAT  
Job Number: M603

## APC-BETTY #1-27





**DIAMOND TESTING**  
P. O. Box 157  
**HOISINGTON, KANSAS 67544**  
(316) 653-7550  
**GAS VOLUME REPORT**

Company MULL DRLG CO. INC. Lease & Well No. APC-BETTY #1-27  
Date 1-19-2014 Sec. 27 Twp. 13S Rge. 45W Location \_\_\_\_\_ County CHEYENNE State CO  
Drilling Contractor MURFIN 20 Formation MARMATON-FT.SCOTT DST No. 4  
Remarks: GTS 1ST OPEN, GAS BURNED NICELY  
NO H2S DETECTED

**INITIAL FLOW PSI**

Time O'Clock	Orifice Size	Gauge	CF/D
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	

**FINAL FLOW PSI**

Time O'Clock	Orifice Size	Gauge	CF/D
	1.50 in.	PSI in.	MCF/D
5 MIN	in.	6.5 in.	995
10 MIN.	in.	8.0 in.	1123
15 MIN.	in.	8.25 in.	1141
20 MIN.	in.	8.125 in.	1132
25 MIN	in.	8.5 in.	1160
30 MIN.	in.	8.5 in.	1160
35 MIN.	in.	8.5 in.	1160
40 MIN	in.	8.5 in.	1160
	in.	in.	

SAMPLE TAKEN YES

FINAL FLOW 1,160 MCF/D