

ConocoPhillips Company  
3401 E. 30<sup>th</sup> Street  
Farmington, NM 87402



Monica Kuehling  
Oil Conservation Division  
1000 Rio Brazos Rd  
Aztec, NM 87410

April 19, 2011

RE: San Juan 27-5 Unit 169M  
API# 30-039-27638  
Sec. 33, T27N, R5W  
Lease #: SF-079394  
Reference: RBDMS MPK1104742964



Dear Ms. Kuehling:

On February 24, 2011 a letter was received regarding the subject well indicating a bradenhead failure and requesting remedial activity. A proposal to not repair the intermediate casing is attached for your review. Also attached is a current wellbore schematic and the two most recent bradenhead tests.

If further detail or information is needed regarding the subject well please contact me at 326-9837.

Sincerely,

A handwritten signature in cursive script that reads "Crystal Tafoya".

Crystal Tafoya  
Staff Regulatory Technician

B.P. Approved, advise field staff intermediate casing was cut and removed.

Handwritten initials, possibly "AT", in a stylized script.



## **Bradenhead Summary**

**Production Engineering**

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**TO: Monica Kuehling, New Mexico Oil Conservation Division**  
**FROM: Jessie Dutko**  
**DATE: March 21, 2011**  
**RE: San Juan 27-5 Unit 169M, 2010 Bradenhead Test**

**Subject:**

San Juan 27-5 Unit 169M  
API 30-039-27638  
Rio Arriba, NM

On February 17, 2011, ConocoPhillips received a letter referenced RBDMS MPK1104742964 from the New Mexico Oil Conservation Division (NMOCD) stating that the 2010 bradenhead test performed on the San Juan 27-5 Unit 169M indicated a failure in the intermediate casing. After reviewing the wellfile and past bradenhead tests, it was determined that the configuration of the casing is such, that the intermediate casing valve is tied to the same annulus as the production casing valve. The 4-1/2 inch production casing was cut at 2828' on November 15, 2010 during a remedial workover. ConocoPhillips believes that no remedial work is required. A schematic of the casing configuration and the wellbore diagram are presented in the following pages.

**Jessie Dutko**  
**Production Engineer**

# Current Schematic

ConocoPhillips

Well Name: SAN JUAN 27-5 UNIT #169M

API/ UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type	Edit
3003927638	NMPM,033-027N-005WV	BASIN/DAKOTA (PERFORATED CAS)		NEW MEXICO		
Ground Elevation (ft)	Original KB/RT Elevation (ft)	KB-Ground Distance (ft)	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)		
6,506.00	6,521.00	15.00	6,521.00	6,521.00		

Well Config: - Original Hole, 4/13/2011 7:06:08 AM

ftKB (MD)	ftKB (TVD)	Schematic - Actual	Frm Final
0	0		
15	15		
56	56		
77	77		
154	154		
155	155	Surface Casing Cement, 15-155, 3/28/2004, Cemented w/ 105 sx Type III cement. Circulated 10 bbls cement to surface. Surface, 9 5/8in, 9.001in, 15 ftKB, 155 ftKB	
160	160		
2,660	2,660		OJO ALAMO, 2,660
2,682	2,682		
2,685	2,685		
2,775	2,775		
2,828	2,828	Intermediate Casing Cement, 15-2,686, 3/31/2004, Cemented 2nd stage w/ 32 sx Premium Lite cement. Circulated 38 bbls cement to surface.	KIRTLAND, 2,775
3,000	3,000	Top of Swedged Casing @ 2828'	FRUITLAND, 3,000
3,125	3,125		
3,218	3,217		
3,332	3,332		
3,333	3,333		
3,377	3,376		
3,378	3,377	Intermediate Casing Cement, 2,686-3,378, 3/31/2004, Cemented 1st stage w/ 42 sx Premium Lite followed by 90 sx Type III cement. Intermediate, 7in, 6.456in, 15 ftKB, 3,378 ftKB	PICTURED CLIFFS, 3,218
3,388	3,388		
4,015	4,014	Tubing, 2 3/8in, 4.70lbs/ft, J-55, 15 ftKB, 7,496 ftKB	
4,168	4,167		
4,384	4,383	Lewis, 4,015-4,384, 4/20/2004	CHACRA, 4,168
4,466	4,465		
4,724	4,723	Cliff House/Menefee, 4,466-4,966, 4/20/2004	
4,738	4,737		
4,835	4,834		CLIFFHOUSE, 4,835
4,966	4,965		
4,968	4,967		MENEFEE, 4,968
5,179	5,178		
5,380	5,379		
5,790	5,789	Menefee/Point Lookout, 5,179-5,790, 4/20/2004	POINT LOOKOUT, 5,380
5,810	5,809		MANCOS, 5,810
6,516	6,515		GALLUP, 6,516
7,183	7,181		
7,196	7,195		
7,374	7,372	Pup Joint, 2 3/8in, 4.70lbs/ft, J-55, 7,496 ftKB, 7,498 ftKB	GREENHORN, 7,374
7,424	7,422	Tubing, 2 3/8in, 4.70lbs/ft, J-55, 7,498 ftKB, 7,529 ftKB	
7,496	7,494		
7,498	7,496	F NIPPLE, 2 3/8in, 7,529 ftKB, 7,530 ftKB	
7,529	7,527		
7,530	7,528	Expendable Check, 2 3/8in, 7,530 ftKB, 7,531 ftKB	
7,531	7,529		
7,606	7,604		
7,608	7,606		DAKOTA, 7,606
7,636		PBTD, 7,636	
7,638			
7,639			
7,639			
7,640			
7,640		TD, 7,640, 4/3/2004	
		Production Casing Cement, 3,125-7,640, 4/3/2004, Cemented w/ 9 sx Scavenger followed by 279 sx Premium Lite cement. TOC @ 3125' (CBL) Production, 4 1/2in, 4.052in, 2,828 ftKB, 7,640 ftKB Display Cement Fill, 7,640-7,640, 4/3/2004	

**NEW MEXICO ENERGY, MINERALS  
& NATURAL RESOURCES DEPARTMENT**

OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE  
1000 RIO BRAZOS ROAD  
AZTEC NM 87410  
(505) 334-6178 FAX: (505) 334-6170  
[http://emnrd.state.nm.us/ocd/District III/3district.htm](http://emnrd.state.nm.us/ocd/District%20III/3district.htm)

**BRADENHEAD TEST REPORT**

(submit 1 copy to above address)

Date of Test 9/18/2007 Operator Burlington Resources API # 3003927638  
Property Name SAN JUAN 27-5 UNIT Well No. 169M Location: Unit K Section 33 Township 027N Range 005W  
Well Status Flowing Initial PSI: Tubing 175 Intermediate 209 Casing 209 Bradenhead 0

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

Testing TIME	PRESSURE					FLOW CHARACTERISTICS	
	BRADENHEAD			INTERM		BRADENHEAD	INTERMEDIATE
	BH	Int	Csg	Int	Csg		
5 min	0	209	209	2	205.5	Steady Flow	Y
10 min	0	209	209	1.5	203.4	Surges	
15 min	0	209	209	1.5	202	Down to Nothing	
20 min				1.4	200.8	Nothing	Y
25 min				1.5	200	Gas	Y
30 min				1.5	199.5	Gas & Water	
						Water	

**If Bradenhead flowed water, check all of the descriptions that apply below:**

CLEAR \_\_\_\_\_ FRESH \_\_\_\_\_ SALTY \_\_\_\_\_ SULFUR \_\_\_\_\_ BLACK \_\_\_\_\_

**If Intermediate flowed water, check all of the descriptions that apply below:**

CLEAR \_\_\_\_\_ FRESH \_\_\_\_\_ SALTY \_\_\_\_\_ SULFUR \_\_\_\_\_ BLACK \_\_\_\_\_

**5 MINUTE SHUT-IN PRESSURE** Bradenhead 0 Intermediate 40

**REMARKS:**

Bradenhead had 0psi. Intermediate had 209psi same as the casing. Blew intermediate and never blew down through 2" valve. Did thirty minute test and casing keep dropping. 5min was 40psi.

Tested By peacewa Witness \_\_\_\_\_

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**BRADENHEAD TEST REPORT**

(submit 1 copy to above address)

Date of Test 8/24/2010 Operator Burlington Resources API # 3003927638  
Property Name SAN JUAN 27-5 UNIT Well No. 169M Location: Unit K Section 33 Township 027N Range 005W  
Well Status Flowing Initial PSI: Tubing 180 Intermediate 184 Casing 180 Bradenhead 0

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

Testing TIME	PRESSURE					FLOW CHARACTERISTICS	
	BRADENHEAD			INTERM		BRADENHEAD	INTERMEDIATE
	BH	Int	Csg	Int	Csg		
5 min		184	180	152	152	Steady Flow	Y
10 min				137	137	Surges	
15 min				124	124	Down to Nothing	
20 min						Nothing	Y
25 min						Gas	Y
30 min						Gas & Water	
						Water	

**If Bradenhead flowed water, check all of the descriptions that apply below:**

CLEAR \_\_\_\_\_ FRESH \_\_\_\_\_ SALTY \_\_\_\_\_ SULFUR \_\_\_\_\_ BLACK \_\_\_\_\_

**If Intermediate flowed water, check all of the descriptions that apply below:**

CLEAR \_\_\_\_\_ FRESH \_\_\_\_\_ SALTY \_\_\_\_\_ SULFUR \_\_\_\_\_ BLACK \_\_\_\_\_

**5 MINUTE SHUT-IN PRESSURE** Bradenhead 0 Intermediate 147

**REMARKS:**

Intermediate pressure tracking casing pressure.

Tested By GomezOC Witness No