

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

Sundry Notices and Reports on Wells

2007 SEP -4 PM 2: 04

RECEIVED  
BLM  
210 FARMINGTON NM

1. **Type of Well**  
GAS

2. **Name of Operator**  
ConocoPhillips

3. **Address & Phone No. of Operator**  
PO Box 4289, Farmington, NM 87499 (505) 326-9700

4. **Location of Well, Footage, Sec., T, R, M**  
Sec., T—N, R—W, NMPM  
  
Unit G (SWNE), 1392' FNL & 1485' FEL, Sec. 21, T31N, R8W NMPM

5. **Lease Number**  
SF-079029

6. **If Indian, All. or Tribe Name**

7. **Unit Agreement Name**

8. **Well Name & Number**  
San Juan 32-8 Unit 235

9. **API Well No.**  
30-045-28323

10. **Field and Pool**  
Basin Fruitland Coal

11. **County and State**  
San Juan, NM

**12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA**

**Type of Submission:**

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment

**Type of Action:**

☐ Abandonment

☐ Recompletion

☐ Plugging

☐ Casing Repair

☐ Altering Casing

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut-off

☐ Conversion to Injection

☒ Other : Deepen for Sump

RCVD SEP 6 '07

OIL CONS. DIV.

**13. Describe Proposed or Completed Operations**

DIST. 3

It is intended to deepen this existing Basin Fruitland Coal well. The current PBDT is 3442' and we would like to drill a sump to ~3533'. We will have a mudlogger on this well to monitor liberated gas from the Pictured Cliffs while drilling, and to ensure no sustained gas comes from the formation. This well is located outside the Pictured Cliffs pool and expect the PC to be non-productive.

P.C. non-prod' sump request  
granted 9/5/07-GL

Please see the attached procedure & well bore diagram.

**14. I hereby certify that the foregoing is true and correct.**

Signed Philana Thompson Title Regulatory Tech Date 8/30/07

(This space for Federal or State Office use)

APPROVED BY Petr. Eng Title Petr. Eng Date 9/5/07

CONDITION OF APPROVAL, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

NMOCD

4/

Pit

**ConocoPhillips**  
**SJ 32-8 235 (FC)**  
**Liner Pull and Cleanout**

**Lat** 36° 53' 10.32" N **Long** 107° 40' 37.344" W

Prepared By:

Mike Megorden Date: 06/25/07

BAE Peer review/approved By:

Date: / /

**Scope of work:** Pull 4-1/2" liner, deepen well, under-ream to 9-1/2", clean out cavities, and run 5-1/2" liner. The well will be returned to rod-pump operations. This procedure uses a new technique of cleaning out with a 5-1/2" long string and a 2-3/8" tubing string.

**Est. Cost:** \$241,850

**Est. Rig Days:** 12

**WELL DATA:**

**API:** 30-045-28323

**Location:** 1392.06' FNL & 11484.91' FEL, G65  
-21-31N-08W

**PBTD:** 3442' **TD:** 3443' **KB:** 13'

**Perforations:** 3296'-3442' (FC)

**Well History:** Well was completed with 2-3/8" tubing in 1991 and had the tubing changed from 2-3/8" to 3-1/2" tubing in 1994. A rod pump was installed in 2003, replaced in 2006, and current fluid level tests show no liquid column.

**B2 Adapters are required on all wells other than pumping wells.**

**Artificial lift on well (type):** rod pump

**Est. Reservoir Pressure (psig):** 115 psi (FC)

**Well Failure Date:** 07/01/2006

**Current Rate (Mcf/d):** 100 mcfd **Est. Rate Post Remedial (Mcf/d):** 600 mcfd

**Earthen Pit Required:** YES

**Special Requirements:** Long string of 5-1/2" casing, 5-1/2" casing subs, additional 800 cfm air package, aluminum baffle plate (for well control), wellhead hanger for 5-1/2", several joints of 2-3/8" tubing for elongation of the tubing string and replacements, Price-type cover joint gas anchor, rod pump, sucker rods, pony rods, 9-1/2" underreamer, drill bits, drill collars, etc.

**BAE Production Engineer:** Mike Megorden, Office: (505) 324 5142, Cell: (505) 947 4315

**BAE Backup:** Allan Rambur, Office: (505) 324 5163, Cell: (505) 320 1402

**MSO:** Richard Pierce Cell # (505) 947 5720

**Lead:** Mike O'Nan Cell # (505) 599 3433

**Area Foreman:** Darren Randall Cell # (505) 324 5119

**ConocoPhillips**  
**SJ 32-8 235 (FC)**  
**Liner Pull and Cleanout**

**Lat 36° 53' 10.32" N    Long 107° 40' 37.344" W**

**PROCEDURE:**

1. Hold pre-job safety meeting. Comply with all NMOCD, BLM, and COPC safety and environmental regulations. Test rig anchors prior to moving in rig.
2. MIRU workover rig. Check casing, tubing, and bradenhead pressures and record them in Wellview.
3. POOH w/ rods and pump, checking for signs of rod wear and note any abnormalities in Wellview. Note if pump inlet is plugged. Drop standing valve or run plug in F-nipple (1.78" ID) and pressure test tubing to 1000 psig. Pull standing valve/plug. LD rods.
4. PU and release tubing hanger and tag for fill, adding additional joints as needed. PBTD is at **3442'**. Record fill depth in Wellview.
5. TOOH w/ 2-3/8", 4.7#, EUE tubing string. Visually inspect tubing and record findings in Wellview. Make note of corrosion or scale. LD tubing.
6. RIH and release Hyflo III 5-1/2" liner hanger. Spear 4-1/2" liner, work free, POOH and LD.
7. PU 6-1/4" drill bit, RIH w/ drill collars (enough to cover the openhole section) and drill pipe. Drill to newTD at **3533'**. POOH w/ bit, LD bit.
8. PU 9-1/2" underreamer, RIH w/ drill collars (enough to cover the openhole section) and drill pipe. Underream from 3290' to 3533'. POOH and LD underreamer.
9. Set pitot at surface and obtain flowrate. Perform natural and assisted surges w/ air/mist. Obtain flowrates after each surge.
10. PU 5-1/2" 15.50# J-55 casing with a sawtooth collar on the bottom joint. Insert an aluminum plate in the bottom joint of casing to prevent gas flowback through the 5-1/2" casing while RIH.
11. Tag bottom and check for fill. Pick up a few feet and land 5-1/2" casing in the wellhead.
12. PU 3-7/8" bit and RIH on 2-3/8" 4.7# EUE 8RD tubing and tag bottom (use one 3-1/8" drill collar if desired). Ideally, this will be somewhere near the bottom cavity (top of bottom cavity ~3410').
13. Rig up small (~800 cfm) air/mist package to 7" casing. Rig up large (~1500 cfm) air/mist package to the tubing. Clean out with tubing while injecting air/mist down the 7" x 5-1/2" annulus. Run air package overnight while leaving 5-1/2" set in openhole.
14. Clean out no more than a joint. If the returns stop or slow down, tag bottom. POOH w/ tubing. PU and lower 5-1/2" casing 10'-20' (using casing subs), depending on where fill was tagged at. Land casing in the wellhead. Control 5-1/2" with produced water if necessary.
15. RIH w/ bit and tubing and repeat the cleanout/casing lowering process until the wellbore is clean. POOH w/ 5-1/2". Control 5-1/2" with produced water if necessary.

16. PU and RIH with the following liner assembly (use aluminum plate on bottom to prevent gas flowback through 5-1/2") on drill pipe:

Bottom to Top

- 1) 5-1/2" shoe
- 2) Two blank 5-1/2" 15.5# casing joints
- 3) One pre-perf'd and plugged 5-1/2" 15.5# casing joint
- 4) One 20' x 5-1/2" blank casing joint
- 5) Two pre-perf'd and plugged 5-1/2" 15.5# casing joints
- 6) One blank 5-1/2" 15.5# casing joint
- 7) Drop off sleeve and tool
- 8) 2-7/8" AOH drill pipe to surface

17. RIH with the following 2-3/8" Price-type cover joint gas anchor and tubing as follows:

Bottom to Top

- 1) 1-1/2" mule shoe
- 2) 2-3/8" EUE 8rd by 1-1/2" EUE 10rd swedge (1.61" ID)
- 3) 1 jt. 2-3/8" EUE 8rd tubing (1/2" vent hole drilled below top upset)
- 4) 2-3/8" Locking Collar Nipple (1.78" ID)
- 5) 2-3/8" EUE 8rd tubing to surface

Instead of killing well w/ 2% KCl, set a plug in the locking collar nipple to avoid killing the well. Be aware of a light tubing situation.

18. Land the tubing so the **Locking Collar Nipple (or re-use F-nipple)** is at +/- **3455'**.
19. Set a BPV in the tubing. ND BOPE. NU new sucker rod wellhead assembly. Pull BPV.
20. RIH with new 1-1/4" RHAC insert pump per below on 3/4" rods with required pony rods to space out pump for a pumping unit stroke length of **64"**.

Bottom To Top

- 1) 12" by 1" strainer nipple
  - 2) 2-1/2" x 1-1/4" x 8' x 12' RHAC Insert pump w/ 4' spray metal groove plunger (- 0.006" total clearance) adhering to COP recommended practices for coal wells
  - 3) 1' x 1" lift sub
  - 4) 8' x 3/4" guided pony rod
  - 5) Three 1-1/4" Sinker bars
  - 6) Two 8' x 3/4" Grade D pony rods
  - 7) Norris 3/4", Type 54, API Grade D rods (+/- 134 rods)
  - 9) 1-1/4" x 22' polished rod
21. Load tubing with water and test tubing to 1000 psig. Stroke pump to 500 psig and tie polished rod to pumping unit. Verify well pumps up before moving out. Plumb flowline to new wellhead assembly.
22. Contact MSO of finished project so that he can return well to production.

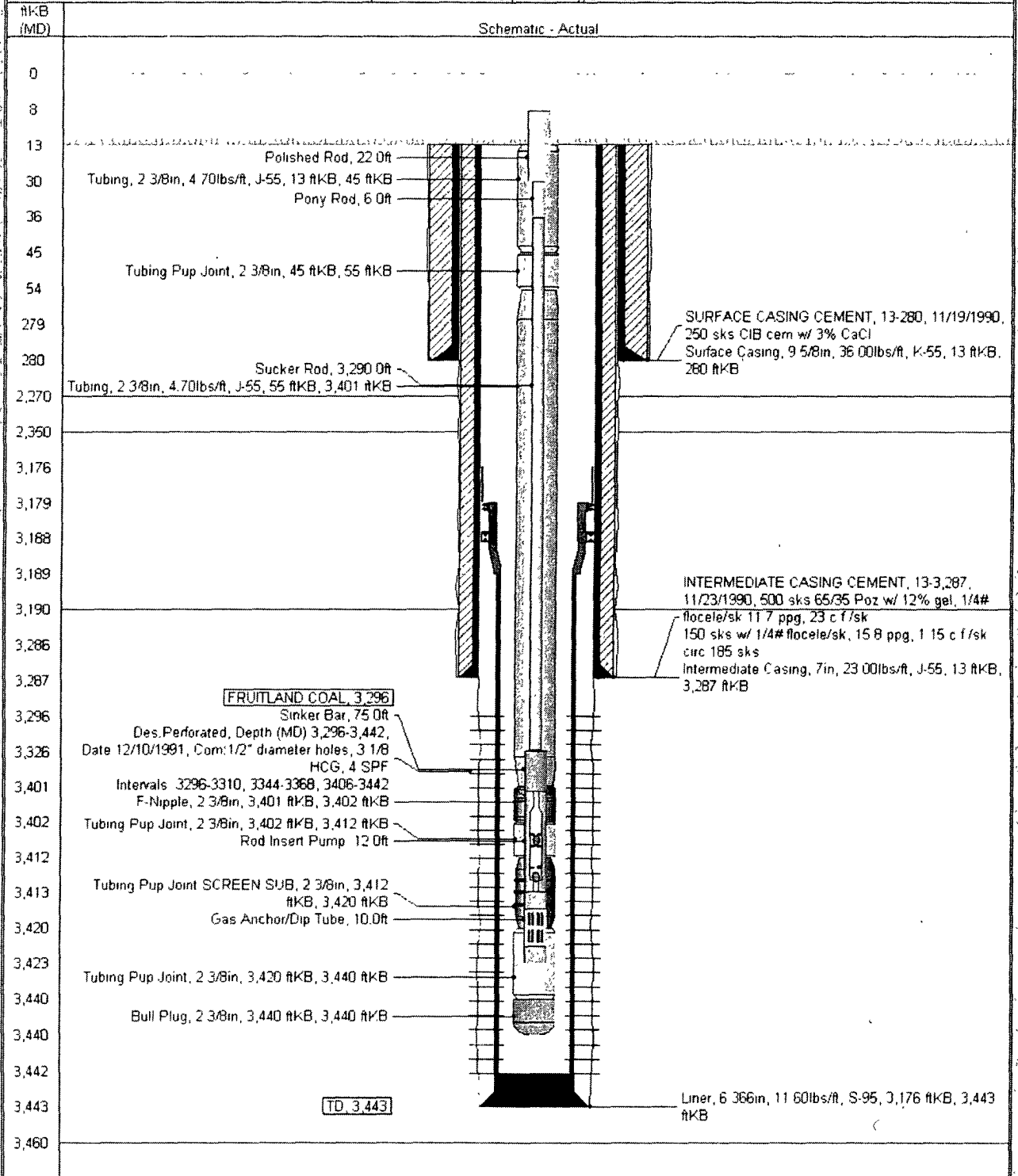
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CURRENT SCHEMATIC

SAN JUAN 32 8 UNIT #235

District SAN JUAN	Field Name FC	API / UWI 300452832300	County SAN JUAN	State/Province NEW MEXICO	Edit
Original Spud Date 11/19/1990	Surface Legal Location NMMP-31N-08W-21-G	EW Dist (ft) 1,484.91	EW Ref E	N/S Dist (ft) 1,392.06	N/S Ref N

Well Config: Vertical - Main Hole (D - 1049 4), 8/7/2007 1:59 22 PM



# Pertinent Data Sheet

ConocoPhillips

Well Name: SAN JUAN 32 8 UNIT #235

API / UWI 300452832300	Surface Legal Location NMPM-31N-08W-21-G	Field Name FC	License No	State/Province NEW MEXICO	Well Configuration Type Vertical	Edit
Ground Elevation (ft) 6,558.00	Original KB Elevation (ft) 6,571.00	KB-Ground Distance (ft) 13.00	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)		

Well Attributes			Edit
Orig Spud Date	Latitude (DMS)	Longitude (DMS)	

Formations		Edit
Formation Name	Final Top MD (ftKB)	
Pictured Cliffs	0.0	
Kirtland	3,460.0	
Fruitland	2,350.1	
Ojo Alamo	3,190.0	
	2,270.0	

Casing Strings								Edit
Casing Description		Run Date	Set Depth (ftKB)	Comment				Edit
Surface Casing		11/19/1990	280.0					
Item Description	OD (in)	ID (in)	Wt (lbs/ft)	Grade	Jts	Len (ft)	Edit	
Casing Joints	9 5/8	8 9/21	36.00	K-55		266.00		
Shoe	9 5/8	8 9/21				1.00		
Casing Description		Run Date	Set Depth (ftKB)	Comment				Edit
Intermediate Casing		11/23/1990	3,287.0					
Item Description	OD (in)	ID (in)	Wt (lbs/ft)	Grade	Jts	Len (ft)	Edit	
Casing Joints	7	6 3/8	23.00	J-55		3,273.00		
Shoe	7	6 3/8				1.00		
Casing Description		Run Date	Set Depth (ftKB)	Comment				Edit
Liner		12/8/1991	3,443.0					
Item Description	OD (in)	ID (in)	Wt (lbs/ft)	Grade	Jts	Len (ft)	Edit	
Set Tool	6 3/8					3.10		
Liner Hanger	5 1/2	4 5/8				9.28		
Cross Over	5 1/2	4 0/8				0.90		
Casing Joints	4 1/2	4 0/8	11.60	S-95	6	253.00		
V Shoe	4 1/2	0 0/8				1.00		

Cement				Edit
Description	Start Date	End Date	Comment	
SURFACE CASING CEMENT	11/19/1990		250 sks CIB cem w/ 3% CaCl	
INTERMEDIATE CASING CEMENT	11/23/1990		500 sks 65/35 Poz w/ 12% gel, 1/4# flocele/sk 11 7 ppg, 23 c f/sk 150 sks w/ 1/4# flocele/sk, 15 8 ppg, 1 15 c f/sk circ 185 sks	

Tubing - Production set at 3,440.0ftKB on 4/10/2006 00:00								Edit
Tubing Description	Run Date	Set Depth (ftKB)	Comment					
Tubing - Production	4/10/2006	3,440.0						
Item Description	OD (in)	ID (in)	WT (lbs/ft)	Grade	Jts	Len (ft)	Top (ftKB)	Edit
Tubing	2 3/8	1 9/16	4.70	J-55	1	31.50	13.1	
Tubing Pup Joint	2 3/8	1 9/16			1	10.00	44.6	
Tubing	2 3/8	1 9/16	4.70	J-55	107	3,346.20	54.6	
F-Nipple	2 3/8	1 7/8			1	0.60	3,400.8	
Tubing Pup Joint	2 3/8	1 9/16			1	10.00	3,401.6	
Tubing Pup Joint SCREEN SUB	2 3/8	1 9/16			1	8.00	3,411.6	
Tubing Pup Joint	2 3/8	1 9/16			2	20.00	3,419.6	
Bull Plug	2 3/8				1	0.40	3,439.6	

Rods		Edit
Rod on 6/3/2003 00:00		
Run Date	Set Depth (ftKB)	
6/3/2003	3,428.0	

Rod Components		Edit		
Item Description	OD (in)	Jts	Len (ft)	
Polished Rod	1 1/4			22 00
Pony Rod	3/4			4 00
Pony Rod	3/4			6 00
Pony Rod	3/4			8 00
Sucker Rod	3/4			3,350 00
Pony Rod	3/4			4 00
Rod Pump	1 1/4			20 00
Dip Tube	1			10 00

Rod on 4/10/2006 00:00		Edit
Run Date	Set Depth (ftKB)	
4/10/2006	3,423.0	