Form 3160-5
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0135
Expires: November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

5. Lease Serial No.
NMSF079013

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
NMNM78424A

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.
SJ 32-8 2

2. Name of Operator
CONOCOPHILLIPS COMPANY
Contact: DEBORAH MARBERRY
E-Mail: deborah.marberry@conocophillips.com

9. API Well No.
30-045-11221-00-S1

3a. Address
5525 HIGHWAY 64
FARMINGTON, NM 87401

3b. Phone No. (include area code)
Ph: 832.486.2326
Fx: 832.486.2688

10. Field and Pool, or Exploratory
BLANCO MESAVERDE

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 29 T32N R8W SESW 1090FSL 1850FWL
36.95107 N Lat, 107.70030 W Lon

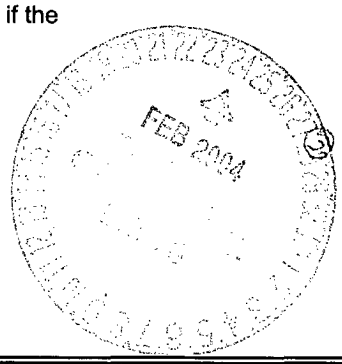
11. County or Parish, and State
SAN JUAN COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☒ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

ConocoPhillips proposes to repair the bradenhead on this well as per the attached procedure if the well is found to be uneconomical to repair we will then proceed to plug this well as per the attached procedure.



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

Electronic Submission #27807 verified by the BLM Well Information System
For CONOCOPHILLIPS COMPANY, sent to the Farmington
Committed to AFMSS for processing by STEVE MASON on 02/12/2004 (04SXM0176SE)

Name *(Printed/Typed)* DEBORAH MARBERRY — Title SUBMITTING CONTACT

Signature (Electronic Submission) — Date 02/11/2004

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By STEPHEN MASON — Title PETROLEUM ENGINEER — Date 02/20/2004

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office Farmington

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

NMOCD

Bradenhead Repair Procedure

December 12, 2003

San Juan 32-8 Unit #2
Blanco Measverde
API 30-045-11221
1090' FSL and 1850' FWL, Section 29, T32N, R-8W

Objective: Pressure test the casing, stop the bradenhead gas flow, clean out any fill and return the well to production. If casing condition does not warrant repair, then well would be plugged and abandoned.

Well Information:

Surface Casing: **10-3/4"- 21.63 lb/ft, J-55, Set at 176'**
Cemented with 155 sxs;
Surface/production casing annulus:
0.2993 cu/ft, 0.0533 bbls/ft

Production Casing: **7" – 20&23 lb/ft, J-55, Surface to 4992'**
Capacity - 0.2273 cf/ft, 0.0405 bbls/ft;
8-3/4" open hole per Temperature Survey log;
9-7/8" open hole per WellView;
DV Tool at 3326;
TOC 1st Stage at 4935' (TS on 4-1-53);
TOC 2nd Stage at 1720 (TS on 4-2-53);
Open Hole TD 5830', size – 6-1/4"

Tubing: **2 3/8" – 4.70 lb/ft set at 5693'**
Capacity - 0.00387 bbls/ft (or .1624 gals/ft)
Drift diameter – 1.901"
Seating Nipple set at 6150'

Perforations: Open Hole Interval: 4992' to 5830';
Stimulated with 1845 quarts nitro

Formation Tops:

Nacimiento	@ 560'	(Estimate)
Ojo Alamo	@ 2070'	(Estimate)
Kirtland	@ 2170'	(Estimate)
Fruitland	@ 2680'	(Estimate)
Pictured Cliffs	@ 3140'	
Cliffhouse	@ 4869'	

Bradenhead Test: Initial Pressures: Tubing -175#, Casing - 175#, BH - 53#
Open BH - steady gas flow,
Casing pressure: 175# at 5 min, 10 min, 15 min, 20 min and 30 min with BH blowing;
BH Shut in at 39# after 5 min.

Bradenhead Repair Procedure:

1. Prepare location for work. Install and or test rig anchors.
2. Kill well with 2% KCL water if not already dead.
3. As pressure is bleed off the well's tubing and casing, monitor the bradenhead flow to determine if there is a correlation.
4. Move in and rig up daylight pulling unit.
5. ND wellhead and NU BOP; pressure test.
6. Pick up on tubing and determine if free. If free, tag bottom to check for fill.
7. TOH and tally 2 3/8" tubing; note condition of tubing and any scale. May have to pump KCl water down the tubing and work the tubing free.
8. Run in hole with casing scraper to 4995', POOH.
9. Run in hole with RBP (or CR) and packer for 7" casing. Set the RBP (or CR) above the 7" casing shoe at 4900'. Load the casing with KCl water and pressure test the RBP to 700#. Then pressure test the 7" casing to 500#. Also pressure test the tubing to 700#.
10. If the casing leaks, then use the packer testing the casing to 500# to isolate the leak(s) top and bottom.
11. **If the condition of the casing is poor and the engineer decides to P&A this well continue with Step #25.**
12. If a casing leak is not found, and the bradenhead pressure has remained bled down; test the wellhead seal between production casing and bradenhead with the packer 1 joint below the wellhead. Repair the wellhead secondary seal as necessary.
13. If then casing does not leak, then TOH with packer. Run a cement bond log to determine the TOC outside the 7" casing.
14. If leaks are found, then contact engineer for cementing recommendations. If there are no casing leaks, then perforate 3 squeeze holes 20' above the TOC. Attempt to establish circulation out the bradenhead with water.
15. Place 10' of sand on top of the RBP, set packer above leak/perforation and squeeze the leak as per recommendations. (Notify the State 24 hours prior to cementing).
16. POOH and WOC.
17. Drill out cement and pressure test casing to 500#.
18. Go in hole with RBP retrieving head. Circulate or blow around with air to unload fluid and sand on top of RBP. Then swab well to reduce fluid on the formation. TOH with RBP.
19. If fill was present in step 6, run bailer and clean out to PBTD. May need to blow the well clean with air or nitrogen.
20. RIH with 2 3/8" tubing and seating nipple and set at 6151'. Drift tubing after each connection is made to ensure connections are not crimped.

Bradenhead Repair Procedure Continued:

21. Nipple down BOP and nipple up wellhead. Make a plunger run (broach to SN) before rigging down.
22. Swab in the well.
23. Rig down pulling unit.
24. Connect to sales.

Plug and Abandonment Procedure:

25. If a RBP was set at 4900', then TIH with retrieving head and recover. If a CR was set at 4900' then TIH with open ended tubing and tag.
26. **Plug #1 (Mesaverde open hole, 4900' – ~~4800'~~ 4760'):** Load casing with water and circulate well clean. If casing has leaks, then spot or tag subsequent plugs as appropriate. Mix ~~29~~ sxs cement and spot a balanced plug inside casing above the retainer to isolate the Mesaverde open hole interval. PUH to 3190'.
27. **Plug #2 (Pictured Cliffs and Fruitland top, ~~3190'~~ 3200' – ~~2630'~~ 2762'):** Mix 118 sxs cement and spot a balanced plug inside the 7" casing to cover the PC and Fruitland tops. PUH.
28. **Plug #3 (Kirtland and Ojo Alamo tops, ~~2220'~~ 1962' – ~~2020'~~ 1812'):** Mix 49 sxs cement and spot a balanced plug inside the 7" casing to cover the Ojo Alamo formation. TOH with tubing.
29. **Plug #4 (Nacimiento top, ~~610'~~ 550' – ~~510'~~ 450'):** Perforate 3 squeeze holes at 610'. Attempt to establish rate into squeeze holes if the casing pressure tested. Set 7" cement retainer at 560'. Establish rate into squeeze holes. Mix and pump 74 sxs cement, squeeze 45 sxs outside the casing and leave 29 sxs inside casing. TOH and LD tubing.
30. **Plug #5 (10-3/4" Casing shoe, 226' - Surface):** Perforate 3 squeeze holes at 226'. Establish circulation out the bradenhead valve with water. Mix and pump approximately 110 sxs cement down 7" casing to circulate good cement out bradenhead valve. Shut well in and WOC.
31. ND BOP and cut off casing below surface. Install P&A marker with cement to comply with regulations. RD, move off location, cut off anchors and restore location.

San Juan 32-8 Unit #2

Current

Blanco Mesaverde

1090' FSL & 1850' FWL, Section 29, T-32-N, R-8-W
San Juan County, NM / API # 30-045-11221
Lat N: _____ / Long: W/: _____

Today's Date: **12/12/03**

Spud: 3/8/53

Completed: 10/11/54

Elevation: 6261' GL
6269' KB

Nacimiento @ '

Ojo Alamo @ 2070'
(Estimate)

Kirtland @ 2170'
(Estimate)

Fruitland @ 2680'
(Estimate)

Pictured Cliffs @ 3140'

Mesaverde @ 4869'

14-3/4" hole

9-7/8" hole

6-1/4" hole

TD 5830'

10-3/4" 21.6# Casing set @ 176'
Cement with 155 sxs (Circulated to Surface)

No Workover History

TOC @ 1720' (T.S. 4-2-53)

2-3/8" Tubing at 5693'
(190 joints, EUE, SN at 6150')

DV @ 3326'
Cement with 250 sxs

TOC @ 4935' (T.S. 4-1-53)

7" 20#&23# Casing set @ 4992'
Cement with 300 sxs

Mesaverde Open Hole:
4992' – 5830'

San Juan 32-8 Unit #2

Proposed P&A

Blanco Mesaverde

1090' FSL & 1850' FWL, Section 29, T-32-N, R-8-W
San Juan County, NM / API # 30-045-11221
Lat N: _____ / Long: W/: _____

226/4.399(1.18) = 44 sxs
50/3.9771(1.18) = 11 sxs
176/3.3 (1.18) = 45 sxs
100 sxs

Today's Date: **12/12/03**

Spud: 3/8/53

Completed: 10/11/54

Elevation: 6261' GL
6269' KB

Nacimiento @ ~~560'~~ 500
(Estimate)

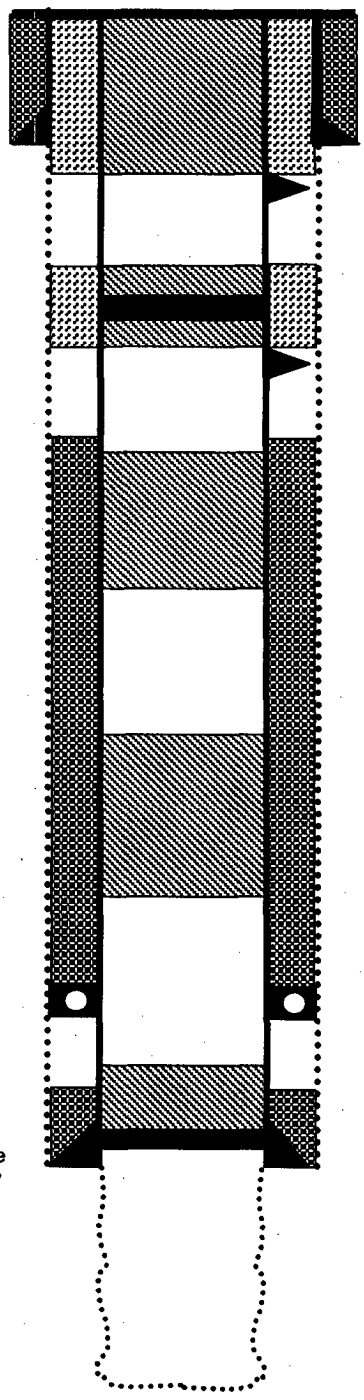
Ojo Alamo @ ~~2070'~~
(Estimate) 1862

Kirtland @ ~~2170'~~
(Estimate) 1912

Fruitland @ ~~2680'~~
(Estimate) 2812

Pictured Cliffs @ 3140'
50

Mesaverde @ 4800'
10



10-3/4" 21.6# Casing set @ 176'
Cement with 155 sxs (Circulated to Surface)

Perforate @ 226'

Plug #7: 226' – Surface
Cement with 110 sxs

550 450
Cmt Ret @ 560'

Plug #4: ~~610'~~ - ~~510'~~
Cement with 74 sxs,
45 sxs outside casing
and 29 sxs inside.

Perforate @ 610'

150/4.399(1.18) = 29 sxs
200/3.9771(1.18) = 43 sxs

TOC @ 1720' (T.S. 4-2-53)

1962 - 1812
Plug #3: ~~2220'~~ - ~~2020'~~
Cement with 49 sxs

(1962-1812)+50/4.399(1.18) = 39 sxs

3200 - 2762
Plug #2: 3190' – 2630'
Cement with 118 sxs

(3200-2762)+50/4.399(1.18) = 94 sxs

DV @ 3326'
Cement with 250 sxs

TOC @ 4935' (T.S. 4-1-53)

4760
Set CR @ 4900'

Plug #1: 4900' - ~~4800'~~
Cement with ~~28~~ sxs

7" 20#&23# Casing set @ 4992'
Cement with 300 sxs

(4900-4760)+50/4.399(1.18) = 37 sxs

Mesaverde Open Hole:
4992' – 5830'