

Submit 3 Copies To Appropriate District  
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1625 N French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Ave., Artesia, NM 88210  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM  
87505

State of New Mexico  
Energy, Minerals and Natural Resources

Form C-103  
Jun 19, 2008

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

WELL API NO. <b>30-039-30207</b>
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name <b>San Juan 29-5 Unit</b>
8. Well Number <b>35F</b>
9. OGRID Number <b>217817</b>
10. Pool name or Wildcat <b>Basin Dakota / Blanco Mesaverde</b>

SUNDRY NOTICES AND REPORTS ON WELLS  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A  
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH  
PROPOSALS.)

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

2. Name of Operator  
**CONOCOPHILLIPS COMPANY**

3. Address of Operator  
P.O. Box 4289, Farmington, NM 87499-4289

4. Well Location Unit Letter <b>F</b> : <b>1597</b> feet from the <b>North</b> line and <b>1769</b> feet from the <b>West</b> line Section <b>34</b> Township <b>29N</b> Range <b>5W</b> NMPM Rio Arriba County	11. Elevation (Show whether DR, RKB, RT, GR, etc.) <b>6694' GR</b>
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12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐  
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐  
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐

OTHER: ☒ Water Isolation & Squeeze

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐  
COMMENCE DRILLING OPNS. ☐ P AND A ☐  
CASING/CEMENT JOB ☐

OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

ConocoPhillips plans to isolate water production and squeeze per the attached procedures and well bore diagram.  
10/29/08 Verbal approval was received from Kelly Roberts/OCD to proceed.

RCVD OCT 31 '08

OIL CONS. DIV.

DIST. 3

Spud Date : **4/09/2007**

Rig Released Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE Tamra Sessions TITLE Staff Regulatory Technician DATE 10/29/2008

Type or print name Tamra Sessions E-mail address: sessitd@conocophillips.com PHONE: 505-326-9834

For State Use Only

APPROVED BY: Kelly G. Roberts TITLE Deputy Oil & Gas Inspector, DATE NOV 04 2008  
District #3

Conditions of Approval (if any):

**ConocoPhillips**  
**San Juan 29-5 Unit 35F (MVDK)**  
**Water Shut-off/Cement Squeeze**

Lat 31° 41' 5.802" N Long 107° 20' 49.675" W

Prepared By: David Finocchio  
Production Engineering Peer Review/Approved By:

Date: 9/18/2008  
Date: / /

**Scope of work:** Remediate excessive water influx by performing an isolation test to identify and isolate the water producing zone. Set CIBP and or cement-squeeze off the wet zone.

**Est. Cost:**  
**Est. Rig Days:** 7

**WELL DATA:**

**API:** 3003930207  
**Location:** 1597' FNL & 1769' FWL, (Spot F), Section 34-- T029N -- R005W  
**KB:** 16'  
**PBTD:** 8087' **TD:** 8087' (open-hole completion)  
**Perforations:** 5274'-5525', 5548'-5673', 5792'-5972' (MV);  
7916'-8006', open-hole section: 8015'-8087' (DK)

<b>Casing:</b>	<b>OD</b>	<b>Wt., Grade</b>	<b>Connection</b>	<b>ID/Drift (in)</b>	<b>Depth</b>
	9-5/8"	32.3#, H-40	-	9.001/8.845	232.6'
	7"	20.0#, J-55	-	6.456/6.331	3999'
<b>Liner:</b>	4-1/2"	10.5#, J-55	-	4.052/3.927	8015'
<b>Tubing:</b>	2-3/8"	4.70#, J-55	EUE	1.995/1.901	7969'
<b>F Nipple:</b>	2-3/8"	4.70#, J-55	-	1.780	7968'
<b>Mule Shoe:</b>	2-3/8"				7969'

**Well History/ Justification:** This well was drilled in 2007 as a commingled Mesaverde/Dakota. The lower Cubero was drilled out leaving the lower Dakota as an open-hole completion. Upon finishing the initial completion, the well was producing approximately 50 bwpd. The First-Delivery team was unable to dewater the wellbore and has sighted the need to isolate and plug back the water producing zones. The most recent liquid level shot showed nearly 500' of water. The proposed job includes an isolation test to identify the water producing zone, and subsequent cement squeeze work to plug off the wet formations.

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

**Artificial lift on well (type):** N/A

**Est. Reservoir Pressure (psig):** 575 (MV) ; 800 (DK)

**Well Failure Date:** N/A

**Current Rate (Mcfd):** 0 **Est. Rate Post Remedial (Mcfd):** 250

**Earthen Pit Required:** NO

**Special Requirements:** 2x 4-1/2" RBP's (wireline set tubing retrievable & tubing set/retrievable), 4-1/2" CIBP (tubing set), cement as needed to squeeze open-hole section, and several jts of 2-3/8" tubing for cleanout.

**Engineer:** David Finocchio Office: 599-3430, Cell: 320-6856

**Production Engineer:** Juan Alvarez Office: 324-5185

**MSO:** Tim John Cell # 486-1907

**Lead:** Mick Ferrari Cell # 320-2508

**Area Foreman:** Richard Lopez Cell # 320-9539

**Rig Superintendent:** James Woosley Office: 326-9867, Cell: 486-0900

**ConocoPhillips**  
**San Juan 29-5 Unit 35F (MVDK)**  
**Water Shut-off/Cement Squeeze**

**Lat 31° 41' 5.802" N   Long 107° 20' 49.675" 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. RU blow lines from casing valves and begin blowing down casing pressure. Kill well with 2% KCl, if necessary. ND wellhead and NU BOP.
4. PU and release tubing hanger and tag for fill, adding additional joints as needed. PBTD is at 8087'. Record fill depth in Wellview. Make special note of liquids present in the wellbore. Record water production rate. Expected water production rate is approximately 50 bwpd.
5. TOOH with tubing (detail below).

- 257- 2-3/8" 4.7# J-55 Tubing joints
- 1- 2-3/8" x 2', 4.7# J-55 Tubing Sub
- 1- 2-3/8" 4.7# J-55 Tubing joint
- 1- 2-3/8", 1.78" F-Nipple
- 1- 2-3/8" Mule Shoe/Expendable Check

Visually inspect tubing and record findings in Wellview. Make note of corrosion or scale. LD and replace any bad joints.

6. RU wireline company. Set RBP above open-hole section and below bottom Dakota perforation (between 8006' and 8015'). **Bottom of casing shoe is at 8015'.**
7. TIH with tubing (detailed below).

- 1- 2-3/8 retrieving head
- 258- 2-3/8" 4.7# J-55 Tubing joints +/- jts as needed to reach RBP.

8. Clean out to top of RBP and record water production rate in Wellview. **If water rate has not slowed to less than 5 bwpd, please proceed to next step.**

Otherwise, if water production rate has dropped to less than 5 bwpd, TOOH w/tubing string and RBP. Set CIBP above open-hole section and below bottom Dakota perforation (between 8006' and 8015'). **Bottom of casing shoe is at 8015'.** TIH with tubing (detail below). Recommended landing depth is 7900' +/- 5'. Land FN @ 7899' +/- 5'.

- 1- 2-3/8" Muleshoe/ Expendable Check
- 1- 2-3/8" F-Nipple
- 1- 2-3/8" 4.7# J-55 Tubing Joint
- 1- 2-3/8" 4.7# J-55 Pup Joint (2')
- 252- 2-3/8" 4.7# J-55 Tubing
- Pups joints as necessary to achieve proper landing depth
- 2-3/8" 4.7# J-55 Tubing Joint

Skip ahead to step 15.

9. TOOH and tag up on RBP. TOOH with RBP and RIH with tubing-set RBP and set between upper and lower Dakota perforations (7946'-7958') @ 7952'.

10. **If water production does not decrease to less than 5 bwpd, skip ahead to step 13.**

Otherwise, TOOH w/tubing and RBP. Set cement retainer between 8006' and 8015' and squeeze off open-hole section by pumping cement down tubing. Estimated volume of open-hole section is 114.8 gallons (2.73 bbls). Pump no more than 2% excess or 23 gallons (0.5 bbls). **Pull out of cement retainer as soon as cement pumping is complete to avoid getting stuck.**

11. Once cement has set, TIH with tubing string and clean out to top of cement retainer. Monitor and record water production rate in Wellview. **If cement squeeze does not decrease water production, continue to next step.**

Otherwise, if cement squeeze reduces water production rate to less than 5 bwpd, TIH with tubing (detail below) and skip to step 15. Recommended landing depth is 7900' +/- 5'. Land FN @ 7899' +/- 5'.

- 1- 2-3/8" Muleshoe/ Expendable Check
- 1- 2-3/8" F-Nipple
- 1- 2-3/8" 4.7# J-55 Tubing Joint
- 1- 2-3/8" 4.7# J-55 Pup Joint (2')
- 252- 2-3/8" 4.7# J-55 Tubing
- Pups joints as necessary to achieve proper landing depth
- 2-3/8" 4.7# J-55 Tubing Joint

12. TIH with RBP and set between upper and lower Dakota perforations (7946'-7958') at 7952'. Monitor water production. If water production does not drop below 5 bwpd skip to the next step.

Otherwise, TIH with tubing string (detailed below) and skip to step 15. Recommended landing depth is 7902' +/- 5'. Land FN @ 7091'.

- 1- 2-3/8" Muleshoe/ Expendable Check
- 1- 2-3/8" F-Nipple
- 1- 2-3/8" 4.7# J-55 Tubing Joint
- 1- 2-3/8" 4.7# J-55 Pup Joint (2')
- 248- 2-3/8" 4.7# J-55 Tubing
- Pups joints as necessary to achieve proper landing depth
- 2-3/8" 4.7# J-55 Tubing Joint

13. TIH with RBP and set at 7995' (within 50' of the top Dakota perforation located at 7916'). If water production decreases to less than 5 bwpd TOOH with RBP and TIH with CIBP. Set CIBP at 7995' (within 50' of the top Dakota perforation, located at 7916').

If water production does not decrease after setting RBP above entire Dakota formation, contact Engineer (**David Finocchio: Office: 599-3430, Cell: 320-6856**) or Rig Superintendent (**James Woosley: Office: 326-9867, Cell: 486-0900**) for further direction.

Otherwise, proceed to next step.

14. TIH with tubing (detailed below). Recommended landing depth is 6000'. Land FN @ 5999'.

- 1- 2-3/8" Muleshoe/ Expendable Check
- 1- 2-3/8" F-Nipple
- 1- 2-3/8" 4.7# J-55 Tubing Joint
- 1- 2-3/8" 4.7# J-55 Pup Joint (2')
- 191- 2-3/8" 4.7# J-55 Tubing
- Pups joints as necessary to achieve proper landing depth
- 1- 2-3/8" 4.7# J-55 Tubing Joint

15. Pressure test tubing with liquid in accordance with COP standards, and unload with air if available.
16. Land tubing, ND BOP, NU wellhead, and blow out expendable check. Notify Rig Supervisor and Engineer that well is ready to be turned over to production. Make a swab run, if necessary, to kick off the well. RDMO.

# Current Schematic - Revised

ConocoPhillips

Well Name: SAN JUAN 29-5 UNIT #35F

API/UWI 3003930207	Surface Legal Location NMMP-29N-05W-34-F	Field Name MW/DK.COM	License No	State/Province NEW MEXICO	Well Configuration Type VERTICAL	Edit
Ground Elevation (ft) 6,694.00	Original KB/RT Elevation (ft) 6,710.00	KB-Ground Distance (ft) 16.00	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)		

Well Config: VERTICAL - Original Hole, 9/18/2008 1:00:24 PM

