Form 3160-3 (August 1999)

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB No. 1004-0136 Expires November 30, 2000

| BUREAU OF LAND  | 5. Lease Serial No.<br>NMNM012698  |  |                    |  |
|---|--|--|--------------------|--|
| APPLICATION FOR PERMIT  | 6. If Indian, Allottee or Tribe Name   |  |                    |  |
| 1a. Type of Work: DRILL REENTER   |  | 7. If Unit or CA Agreement,  | Name and No.       |  |
| lb. Type of Well: ☐ Oil Well     Gas Well   ☐ Otl   | ner Single Zone Multiple Zone  | 8. Lease Name and Well No<br>SAN JUAN 29-6 UNIT                    |                    |  |
| 2. Name of Operator Contact: CONOCOPHILLIPS COMPANY   | PATSY CLUGSTON<br>E-Mail: plclugs@ppco.com   | 9. API Well No.  | 1520               |  |
| 3a. Address<br>5525 HWY.<br>FARMINGTON, NM 87401  | 3b. Phone No. (include area code) Ph: 505.599.3454 Fx: 505-599-3442                                      | 10. Field and Pool, or Explo<br>BASIN DK & BLANC                   |                    |  |
| At surface SESW 390FSL 2360FWL     At proposed prod. zone   | ance with any State requirements.*) 36.73400 N Lat, 107.43270 W Lon                                      | Sec., T., R., M., or Blk. Sec 11 T29N R6W N                        | •                  |  |
| 14. Distance in miles and direction from nearest town or post APPROX. 45 MILES EAST OF BLOOMFIELD, N  | office*  | 12. County or Parish<br>RIO ARRIBA                                 | 13. State<br>NM    |  |
| 15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 390  | 16. No. of Acres in Lease  | 320.00 W)  | SADK               |  |
| 18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.   | 19. Proposed Depth<br>8019 MD<br>8019 TVD  | 20. BLM/BIA Bond No. on file ES0085                                |                    |  |
| 21. Elevations (Show whether DF, KB, RT, GL, etc. 6596 GL   | 22. Approximate date work will start 11/15/2003  | 23. Estimated duration 30 DAYS                                     |                    |  |
|   | 24. Attachments  |  |                    |  |
| The following, completed in accordance with the requirements o  | f Onshore Oil and Gas Order No. 1, shall be attached to  | his form:  |                    |  |
| <ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest Syst<br/>SUPO shall be filed with the appropriate Forest Service Off</li> </ol> | Item 20 above). 5. Operator certification  | ns unless covered by an existin<br>formation and/or plans as may b | •                  |  |
| 25. Signature<br>(Electronic Submission)  | Name (Printed/Typed) PATSY CLUGSTON  |  | Date<br>10/14/2003 |  |
| Title AUTHORIZED REPRESENTATIVE   | ·  |  |                    |  |
| Approved by (Signature)  Italian Bescham  Title   | Name (Printed/Typed)  Office   | N  | Date V - 3 2003    |  |
|   |  |  |                    |  |
| Application approval does not warrant or certify the applicant ho operations thereon.  Conditions of approval, if any, are attached.  | lds legal or equitable title to those rights in the subject le   | ase which would entitle the app                                    | olicant to conduct |  |
| Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, 1 States any false, fictitious or fraudulent statements or representat   | make it a crime for any person knowingly and willfully to ions as to any matter within its jurisdiction. | make to any department or ag                                       | ency of the United |  |

Additional Operator Remarks (see next page)

Electronic Submission #24178 verified by the BLM Well Information System For CONOCOPHILLIPS COMPANY, sent to the Farmington

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

ORILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*

Oistrict I PO 80x 1980, Hobbs, NM 88241-1980

District II PO Drawer DD, Artesia, NM 88211-0719

District III 1000 Rio Brazos Rd., Aztec, NM 87410

District IV PO Bux 2088, Santa Fe, NM 8/504-2088 State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

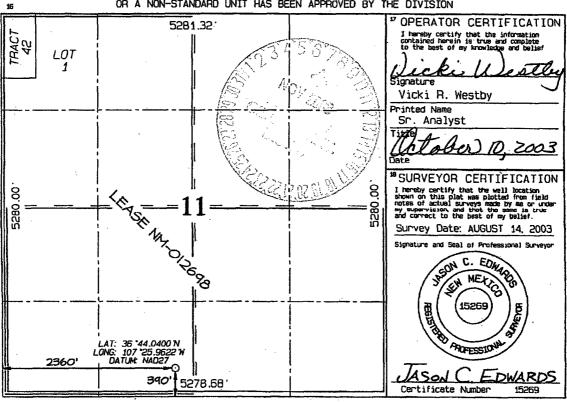
AMENDED REPORT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

| 'API Number             | *Pool Code    | 'Pool Name                               |      |  |  |
|-------------------------|---------------|--|------|--|--|
|                         | 72319 / 71599 | BLANCO MESAVERDE / BASIN DAKOTA          |      |  |  |
| *Property Code<br>31325 |               | Property Name Well Num UAN 29-6 UNIT 89F | mber |  |  |
| 'OGRID No.<br>217817    |               | 'Elevation                               |      |  |  |
|                         | 10 Sur        | face Location                            |      |  |  |

| TO THE COCACTON  |            |          |             |              |                               |                                 |                         |                |               |
|--|------------|----------|-------------|--------------|-------------------------------|---------------------------------|-------------------------|----------------|---------------|
| UL or lot no.  | Section 11 | 29N      | Range<br>6W | Let Idn      | Feet from the<br>390          | North/South Line<br>SOUTH       | Feet from the 2360      | WEST           | RIO<br>ARRIBA |
| <sup>11</sup> Bottom Hole Location If Different From Surface |            |          |             |              |                               |                                 |                         |                |               |
| U. or lot no.  | Section    | Township | Range       | Lat Ion      | Feet from the                 | North/South line                | Feet from the           | East/Most line | County        |
| <sup>12</sup> Deducated Acres                                | 320.0      | .,       | - M/2       | (MV)<br>(DK) | <sup>15</sup> Joint or Dufill | <sup>M</sup> Consolidation Code | <sup>25</sup> Order No. |                |               |

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



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A CHARLES

#### CONOCOPHILLIPS COMPANY

| WELI | L <b>NAME:</b>                                 | San Juan 29                          | <u>-6 Unit #89F (M</u>                      | V/DK)                                   |                    |                |  |  |  |
|------|--|--------------------------------------|---|---|--------------------|----------------|--|--|--|
| DRIL | LING PROGNOSI                                  | S                                    |   |   |                    |                |  |  |  |
| 1.   | Location of Propos                             |                                      | N, 390' FSL & 2<br>n 11, T29N, R6V          |   | _                  |                |  |  |  |
| 2.   | Unprepared Ground                              | l Elevation:                         | <u>@ 6596' (un</u>                          | prepared) .                             |                    |                |  |  |  |
| 3.   | The geological nam                             | ne of the surface t                  | formation is San .                          | Jose .                                  |                    |                |  |  |  |
| 4.   | Type of drilling tools will be <u>rotary</u> . |                                      |   |   |                    |                |  |  |  |
| 5.   | Proposed drilling d                            | epth is <u>8019°</u> .               |   |   |                    |                |  |  |  |
| 6.   | Ojo Alamo -<br>Kirtland Sh -                   | 1209'<br>2659'<br>2809'              | Pt. Lookout -<br>Mancos Shale -<br>Gallup - | 5689°<br>6009°                          | <u>.</u> .         | ·              |  |  |  |
|      | Pictured Cliffs -                              | 3084'<br>3359'<br>3559'              | Greenhorn - Two Wells - Cubero -            | 7669'<br>7784'<br>7849'                 | <br>               |                |  |  |  |
|      |  | 5399 <b>'</b>                        | Intermediate Ca TD -                        | sing – 3659'<br>8019'                   | <del>-</del>       |                |  |  |  |
| 7.   | The estimated dep formations are expe          |                                      |   |   | other mineral      | bearing        |  |  |  |
|      | Water:   | Ojo Alamo -                          | 2659' - 2                                   | 2809'                                   |                    |                |  |  |  |
|      | Gas & Water:                                   | Fruitland -                          | 3084' - 3                                   |   | <del>-</del>       |                |  |  |  |
|      | Gas:   | Pictured Cliff                       |   |   | -                  |                |  |  |  |
|      |  | Mesaverde -                          | 3559' - (                                   |   | <b></b>            |                |  |  |  |
|      |  | Dakota -                             | 7784' - 8                                   |   | <del>-</del>       |                |  |  |  |
| 8.   | The proposed casin                             | g program is as f                    | ollows:                                     |   |                    |                |  |  |  |
|      | Surface String: 9-                             | 5/8", 32.3# II-40                    | @ 200' *                                    | · <u>·</u>                              |                    |                |  |  |  |
|      | Intermediate String                            | : 7", 20#, J-55 (<br>only casing ava |   | will be used,                           | unless the K-5     | 5 is the       |  |  |  |
|      | Droduction Stairs                              |                                      |   | יייי (ידייייייייייייייייייייייייייייייי |                    |                |  |  |  |
|      | Production String:                             | 4-1/2 , 11.0#, J-                    | -33 LIC (0) 8015                            | ענו) כ                                  |                    |                |  |  |  |
|      | * The surface casing                           | ng will be set at a                  | minimum of 200                              | 0', but could b                         | oe set deeper if r | <u>equired</u> |  |  |  |

#### 9. Cement Program:

Surface String:

130 sx 50/50 POZ, + 2% Bentonite, 3% CaCl2, 5#/sx Gilsonite, 0.25#/sx Cellophane flakes, & 0.2% CFR-3 Friction Reducer (1.34 yield = 174 cf); Cement density - 13.5 ppg. Water required 5.39 gal/sx. Compressive Strength - Sample cured at 70 deg F for 8 hours; 3 hrs 05 min. 50 psi; 7 hrs 45 min 500 psi; cement to surface w/150% excess of casing/hole annulus volume.

Intermediate String: Lead Cement: 369 sx Standard cement + 3% Econolite (extender) + 10#/sx Pheno-seal; (2.88 yield = 1063.8 cf). Cement Density 11.5 ppg; Water required - 16.91 gal/sx. Compressive strength -Sample cured at 130 deg F for 24 hrs -1 hr 47 min -50 psi; 12 hrs - 350 psi; 24 hrs - 450 psi; Cement to surface with 150% excess of casing/hole annulus volume.

> Tail Cement: 214 sx 50/50 POZ - Standard cement + 2% Bentonite + 6#/sx Pheno Scal; (1.33 yield -284.7 cf); Cement Density - 13.5 ppg; Water required - 5.52 gal/sx; Compressive strength - Sample cured at 130 deg F for 24 hrs - 2 hrs 5 min - 50 psi; 2 hr 6 min - 500 psi; 12 hr - 1250 psi; 24 hrs - 1819 Cement to surface with 150% excess of casing/hole annulus volume.

#### Production String \*:

Cement: 479 sx 50/50 POZ – Standard cement + 3% Bentonite + 5#/sx PhenoSeal + 0.2% CFR-3 Friction Reducer + 0.1% HR-5 Retarder + 0.8% Halad-9 Fluid Loss Additive (1.45 Yield - 694.7 cf) Cement density - 13.1 ppg; Water required 6.47 gal/sx; Compressive Strength - Sample cured at 200 de F for 23 hrs; 9 hr 50 min - 50 psi; 13 hrs 45 min - 500 psi; 16 hrs - 1500 psi; 23 hrs 2525 psi.

\*The production casing cement is calculated to cover the openhole interval with 50% excess and annular volume 200' within intermediate shoe. Depending on hole conditions, the well may be cemented in a single stage or two staged.

#### Centralizer Program:

Surface:

Total four (4) - 1st joint - 10' above the shoe & 1 at the top of the 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> joints latched over the casing collar

Intermediate:

Total seven (9) - 10' above shoe, top of 2nd, 4th, 6th, & 8th, 10th its & 10<sup>th</sup> 1 it. above surface casing, and on first two casing collars below the wellhead.

Production:

None planned.

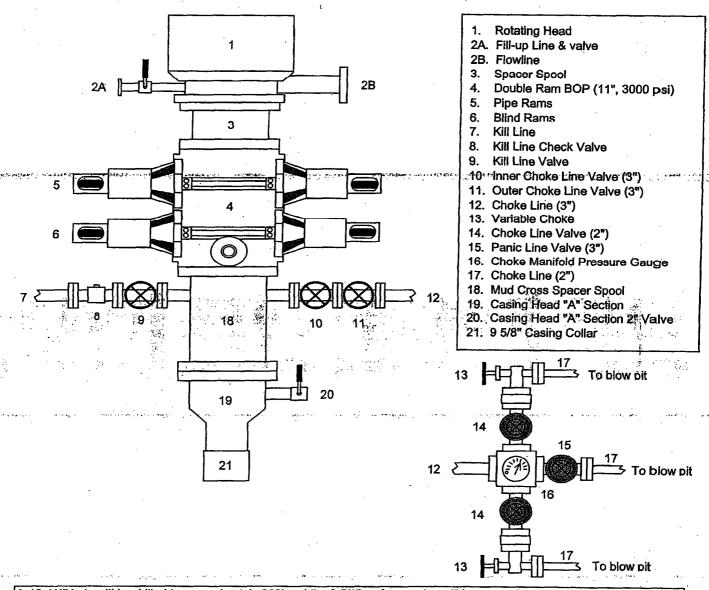
Turbulators:

Total Three (3) – on intermediate casing at 1<sup>st</sup> it. below the Ojo

Alamo and next 2 its up.

### BLOWOUT PREVENTER ARRANGEMENT & PROGRAM

For Drilling to Intermediate Casing Point & Setting 7" Intermediate Casing

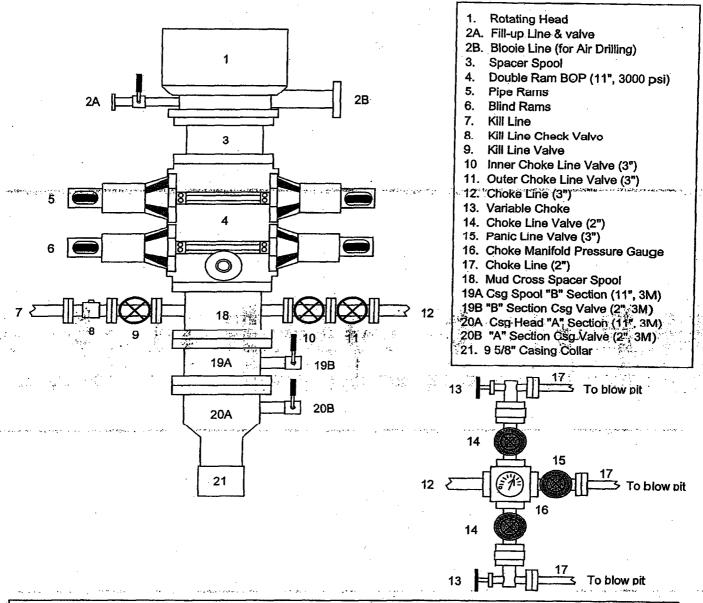


A 12-1/4" hole will be drilled to approximately 220' and the 9-5/8" surface casing will be run and cemented. The Casing Head "A" Section will be screwed onto the 9-5/8" surface casing stub. The BOP will be installed on the Casing Head "A" Section. A test plug will be set in the wellhead and the pipe rams and choke manifold will be tested to 200 psi to 300 psi (low pressure test) for 2-3 minutes and to 1000 psi (high pressure test) for 10 minutes. Then the test plug will be romoved and the 9-5/8" casing will be pressure tested against closed blind rams to 200 psi to 300 psi for 2-3 minutes and to 1000 psi for 30 minutes (this value is one 44% of the minimum internal yield pressure of the 9-5/8" casing). An 8-3/4" hole will be drilled to intermediate casing point and 7" casing will be run and cemented.

In addition to the equipment in the above diagram the following equipment will comprise the BOP system:

- 1. Upper Kelly cock Valve with handle
- 2. Stab-in TIW valve for all drillstrings in use

## BLOWOUT PREVENTER ARRANGEMENT & PROGRAM For Drilling to TD and Setting 4.5 inch Casing



After the 7" intermediate casing has been run and cemented, the Casing Spool ("B" Section) will be installed on the wellhead ("A" Section) and the BOP will be installed on the Casing Spool. A test plug will be set in the wellhead and the pipe rams, blind rams, and choke manifold will be tested to 200 psi to 300 psi (low pressure test) for 2-3 minutes and to 3000 psi (high pressure test) for 10 minutes. Then the test plug will be removed and the 7" casing will be pressure tested against closed blind rams to 200 psi to 300 psi for 2-3 minutes and to 1800 psi for 30 minutes - this test pressure is 48% of the minimum internal yield strength of 3740 psi for the 7", 20#, J-55, STC casing. Then we will air drill the 6-1/4" hole to TD and run and cement the 4-1/2" casing.

In addition to the equipment in the above diagram the following equipment will comprise the BOP system:

- 1. Upper Kelly cock Valve with handle
- 2. Stab-in TIW valve for all drillstrings in use

#### San Juan 29-6 Unit #89F NMNM012698- Unit N, 390' FSL & 2360' FWL Section 11, T29N, R6W; Rio Arriba County, NM

#### **Cathodic Protection**

ConocoPhillips proposes to drill a cathodic protection deep well groundbed for the subject well. Will drill a 6-7/8" hole to an anticipated minimum depth of 300' (maximum depth of 500'). Cement plugs will not be used unless more than one water zone is encountered. Prior drilling history for the area indicates only one zone to that depth. If more than one water zone is encountered, notification will be made and details of cement and casing will be provided.

All drilling activity will remain on existing well pad and a Farmington based company will be doing the drilling for ConocoPhillips.

See attached drawing on proposed placement of groundbed & underground AC & DC cables and rectifier.