

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

RECEIVED

OCT 01 2008

Sundry Notices and Reports on Wells

Bureau of Land Management  
Farmington Field Office

1. Type of Well  
GAS

5. Lease Number  
SF-080673

6. If Indian, All. or  
Tribe Name

2. Name of Operator

**BURLINGTON**

RESOURCES OIL &amp; GAS COMPANY LP

7. Unit Agreement Name  
San Juan 27-4 Unit

3. Address & Phone No. of Operator

8. Well Name & Number  
San Juan 27-4 Unit 5

PO Box 4289, Farmington, NM 87499 (505) 326-9700

9. API Well No.

30-039-07136

4. Location of Well, Footage, Sec., T, R, M

Unit A (NENE), 1190' FNL &amp; 1065' FEL, Section 7, T27N, R04W, NMPM

10. Field and Pool  
Basin Dakota

11. County and State  
Rio Arriba Co., NM

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

## Type of Submission

## Type of Action

☒ Notice of Intent☐ Abandonment☐ Change of Plans☒ Other - PA☐ Subsequent Report☐ Recompletion☐ New Construction☐ Final Abandonment☐ Plugging☐ Non-Routine Fracturing☐ Casing Repair☐ Water Shut off☐ Altering Casing☐ Conversion to Injection

**13. Describe Proposed or Completed Operations**

Burlington Resources wishes PA the subject well per the attached procedure.

Attached - Wellbore schematics

RCVD OCT 1 '08

OIL CONS. DIV.

DIST. 3

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

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

Signed

*Tracey N. Monroe*

Tracey N. Monroe

Title Staff Regulatory Technician

Date 9/30/08

(This space for Federal or State Office use)

APPROVED BY

*[Signature]*

Title

PO

Date

OCT 01 2008

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

OPERATOR *bb*

## PLUG AND ABANDONMENT PROCEDURE

September 17, 2008

### San Juan 27-4 Unit #5

Basin Dakota

1190' FNL & 1065' FEL Section 7, T-27-N, R-4-W

Lat : 36°35'29.256" N Long : 107°17'8.556" W

Rio Arriba, NM API #30-039-07136

Note: All cement volumes use 100% excess outside pipe and 50' excess inside. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures. All cement will be Class B, mixed at 14.8 ppg with a 1.18 cf/sx yield.

1. This project requires a NMOCD C-144 CLEZ Closed-Loop System Permit for the use of an A-Plus steel tank to handle waste fluids circulated from the well and cement wash up.
2. Install and test location rig anchors. Comply with all NMOCD, BLM, and Operator safety regulations. MOL and RU daylight pulling unit. Conduct safety meeting for all personnel on location. Record casing, tubing and bradenhead pressures. NU relief line and blow down well. Kill well with water as necessary and at least pump tubing capacity of water down the tubing. ND wellhead and NU BOP. Function test BOP.
3. Rods: Yes\_\_\_\_, No X, Unknown\_\_\_\_.  
Tubing: Yes X, No\_\_\_\_, Unknown\_\_\_\_, Size 2.375, Length 8054'.  
Packer: Yes\_\_\_\_, No X, Unknown\_\_\_\_, Type\_\_\_\_.  
If this well has rods or a packer, then modify the work sequence in step #2 as appropriate.
4. **Plug #1 (Dakota interval, 8073' – 7984')**: RIH and tag plugback as depth as possible. Load casing with water and circulate well clean. Pressure test casing to 1000#. *If casing does not test, then spot or tag subsequent plugs as appropriate.* Mix 27 sxs cement and spot a balanced plug inside casing to isolate the Dakota interval. PUH
5. **Plug #2 (Gallup top, 7075' – 6975')**: Mix and pump 29 sxs cement inside casing to cover the Gallup top. TOH with tubing.  

4443    4343

4443
6. **Plug #3 (Mesaverde top, ~~5570'~~ – 5470')**: Perforate 3 HSC squeeze holes at ~~5570'~~. If casing tests, then establish rate into squeeze holes. Set a 7" CR at ~~5520'~~. Establish rate into squeeze holes. Mix and pump 55 sxs cement, squeeze 26 sxs outside casing and leave 29 sxs inside casing to cover the Mesaverde top. TOH with tubing.  

60
7. **Plug #4 (9.625" casing shoe, Pictured Cliffs and Fruitland tops, 4017' – ~~3585'~~)**: Perforate 3 HSC squeeze holes at 4017'. If casing tests, then establish rate into squeeze holes. Set a 7" CR at 3967. Establish rate into squeeze holes. Mix and pump ~~168~~ sxs cement, squeeze ~~77~~ sxs outside casing and leave ~~94~~ sxs inside casing to cover through the Fruitland top. TOH with tubing.  

3161
8. **Plug #5 (Kirtland and Ojo Alamo tops, 3444' – ~~3285'~~)**: Perforate 3 HSC squeeze holes at 3344'. If casing tests, then establish rate into squeeze holes. Set a 7" CR at 3394. Establish rate into squeeze holes. Mix and pump ~~79~~ sxs cement, squeeze ~~30~~ sxs outside casing and leave ~~49~~ sxs inside casing to cover through the Ojo Alamo top. TOH with tubing.  

2053    1953

2053
8. **Plug #6 (Nacimiento top, ~~2013'~~ – 1913')**: Perforate 3 HSC squeeze holes at ~~2013'~~. If casing tests, then establish rate into squeeze holes. Set a 7" CR at ~~1963~~. Establish rate into squeeze holes. Mix and pump 105 sxs cement, squeeze 22 sxs outside 7" x 9.625" casing, 55 sxs outside 9.625" x 12.25" annulus and leave 29 sxs inside casing to cover the Nacimiento top. TOH and LD tubing.

9. **Plug #7 (13.375" casing shoe, 215' – 0')**: Perforate 3 squeeze holes at 215'. Establish circulation out bradenhead with water and circulate the BH annulus clean. Mix approximately 220 sxs cement and pump down the 7" casing to circulate good cement out casing annulus and bradenhead. Shut in well and WOC.
10. ND BOP and cut off casing below surface casing flange. Install P&A marker with cement to comply with regulations. RD, move off location, cut off anchors and restore location.

# San Juan 27- 4 Unit #5

## Current

### Basin Dakota

1190' FNL, 1065' FEL, Section 7, T-27-N, R-4-W

Rio Arriba County, NM, API #30-039-07136

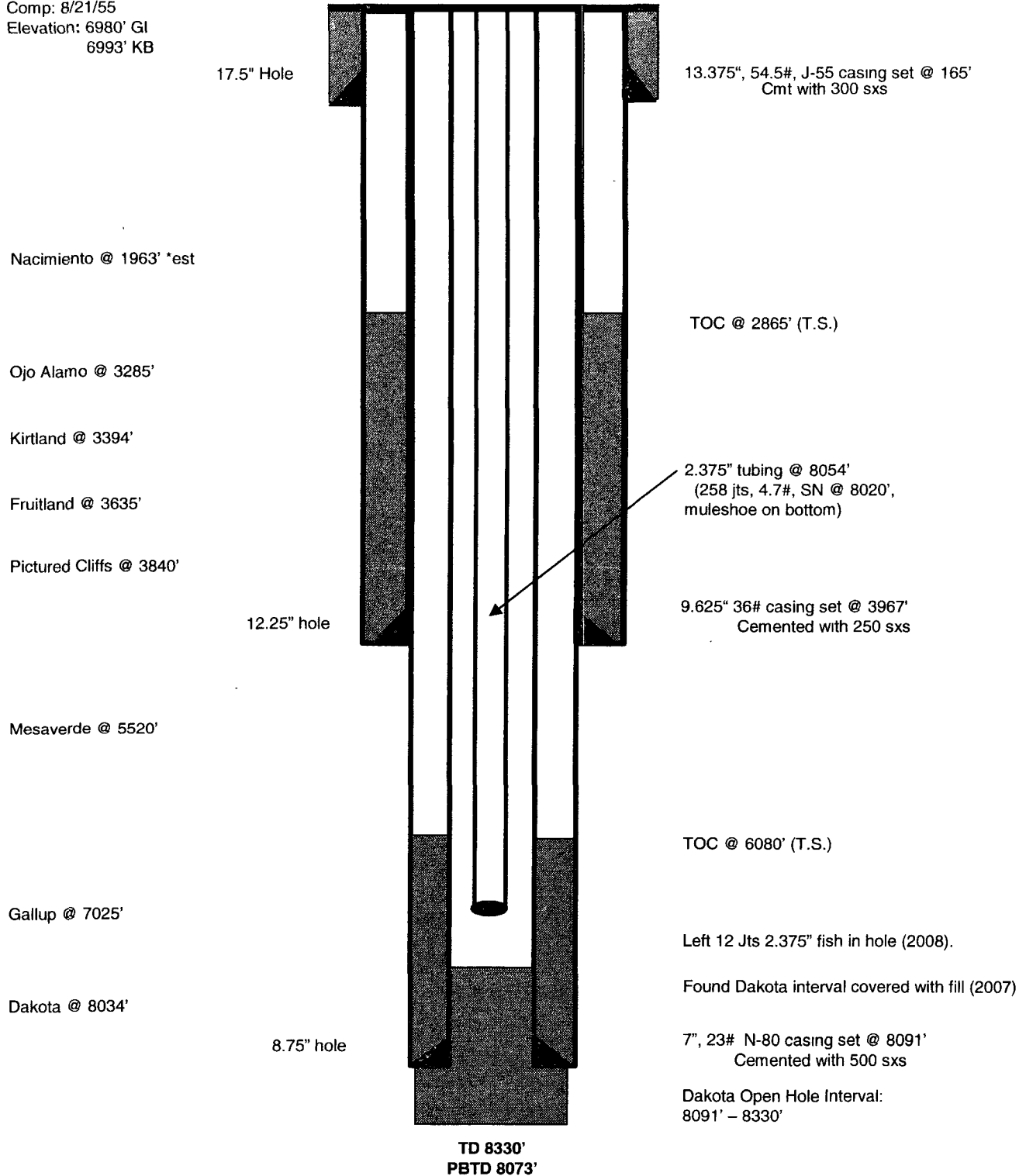
Lat: 36°35'29.256" N / Long: 107°17'8.556" W

Today's Date: 9/17/08

Spud: 7/16/55

Comp: 8/21/55

Elevation: 6980' GI  
6993' KB



# San Juan 27- 4 Unit #5

## Proposed P&A

Basin Dakota

1190' FNL, 1065' FEL, Section 7, T-27-N, R-4-W

Rio Arriba County, NM, API #30-039-07136

Lat: 36°35'29.256" N / Long: 107°17'8.556" W

Today's Date: 9/17/08

Spud: 7/16/55

Comp: 8/21/55

Elevation: 6980' GI  
6993' KB

17.5" Hole

Nacimiento @ 1963' \*est

Ojo Alamo @ 3285'

Kirtland @ 3394'

Fruitland @ 3635'

Pictured Cliffs @ 3840'

12.25" hole

Mesaverde @ 5520'

Gallup @ 7025'

Dakota @ 8034'

8.75" hole

TD 8330'  
PBD 8073'

**Plug #7: 215' - 0'**

Class B cement, 220 sxs

13.375", 54.5#, J-55 casing set @ 165'  
Cmt with 300 sxs

**Perforate @ 215'**

**Plug #6: 2013' - 1913'**

Class B cement, 105 sxs:  
29 Inside and 22 outside 7" x  
9.625" and 55 outside 9.625" x  
12.25"

**Cement Retainer @ 1963'**

**Perforate @ 2013'**

TOC @ 2865' (T.S.)

**Plug #5: 3444' - 3235'**

Class B cement, 79 sxs:  
49 Inside and 30 outside

**Cement Retainer @ 3394'**

**Perforate @ 3444'**

**Plug #4: 4017' - 3585'**

Class B cement, 168 sxs:  
91 Inside and 77 outside

9.625" 36# casing set @ 3967'  
Cemented with 250 sxs

**Cement Retainer @ 3967'**

**Perforate @ 4017'**

**Plug #3: 5570' - 5470'**

Class B cement, 55 sxs:  
29 Inside and 26 outside

**Cement Retainer @ 5520'**

**Perforate @ 5570'**

TOC @ 6080' (T.S.)

**Plug #2: 7075' - 6975'**

Class B cement, 29 sxs

**Plug #1: 8073' - 7984'**

Class B cement, 27 sxs

Left 12 Jts 2.375" fish in hole (2008).

Found Dakota interval covered with fill (2007)

7", 23# N-80 casing set @ 8091'  
Cemented with 500 sxs

Dakota Open Hole Interval:  
8091' - 8330'

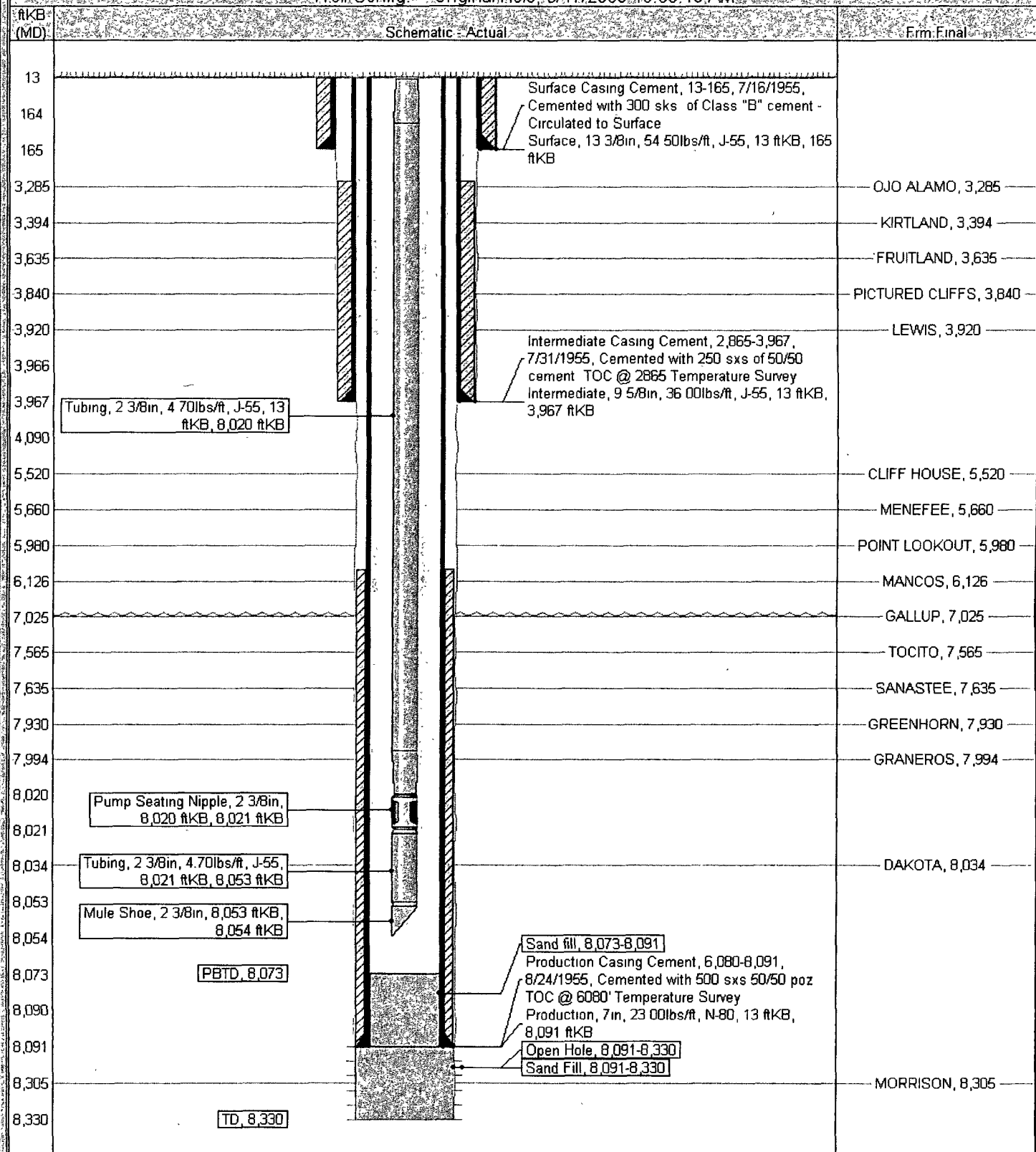
# Current Schematic

ConocoPhillips

Well Name: SAN JUAN 27-4 UNIT #5

API / UWI 3003907136	Surface Legal Location NMPM 007-027 N-004W	Field Name BASIN DAKOTA (PRORATED GAS)	License No	State/Province NEW MEXICO	Well Configuration Type	Edit
Ground Elevation (ft) 6,980.00	Original KB/RT Elevation (ft) 6,993.00	KB-Ground Distance (ft) 13.00	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)		

Well Config - Original Hole, 9/17/2008 10:00:40 AM



## BLM CONDITIONS OF APPROVAL

The following surface rehabilitation Conditions of Approval must be complied with as applicable, before this well can be approved for final abandonment (see 43 CFR 3162.3-4). **Surface rehabilitation work shall be completed within one year of the actual plugging date. Notification for completion of this work can be submitted with a Sundry Notice.**

1. All fences, production equipment, purchaser's equipment, concrete slabs, deadman (anchors), flowlines, risers, debris and trash must be removed from the location.
2. Production pits will be closed according to the Unlined Surface Impoundment Closure Guidelines, as approved in the Environmental Assessment of December 1993. Any oil stained soils may be remediated on-site according to these guidelines or disposed of in an approved disposal facility.
3. The well pad will be shaped to the natural terrain and left as rough as possible. All compacted areas and areas devoid of vegetation shall be ripped to a minimum of 12" before seeding.
4. Access roads will be shaped to conform to the natural terrain and left as rough as possible to detour vehicular travel. Access will be ripped to a minimum of 12" in depth and waterbarred prior to seeding. All erosion problems created by the development must be corrected prior to acceptance of release. Waterbars should be spaced as shown below:

% Slopes	Spacing Interval
Less than 20%	200'
2 to 5%	150'
6 to 9%	100'
10 to 15%	50'
Greater than 15%	30'

All water bars should divert to the downhill side of the road.

5. All disturbed areas will be seeded with the prescribed certified seed mix (reseeding may be required).
6. Notify Surfacing Managing Agency seven (7) days prior to seeding so that they may be present for that option.
7. The period of liability under the bond of record will not be terminated until the lease is inspected and the surface rehabilitation approved.

Other SMA's may vary slightly in their restoration requirements. It is your responsibility, as the operator, to obtain surface restoration requirements from other SMA's. We need to be provided with a copy of these requirements. Any problems concerning stipulations received from other SMA's should be brought to us.

On private land, we should be provided with a letter from the fee owner stating that the surface restoration is satisfactory.

**UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
FARMINGTON DISTRICT OFFICE  
1235 LA PLATA HIGHWAY  
FARMINGTON, NEW MEXICO 87401**

Attachment to notice of  
Intention to Abandon:

Re: Permanent Abandonment  
Well: 5 San Juan 27-4 Unit

**CONDITIONS OF APPROVAL**

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Lease."
2. Farmington Office is to be notified at least 24 hours before the plugging operations commence (505) 599-8907.
3. The following modifications to your plugging program are to be made:
  - a) Place the Mesaverde plug from 4443' – 4343' inside and outside the 7" casing.
  - b) Place the Pictured Cliffs/Fruitland plug from 4017' - 3560' inside and outside the 7" casing.
  - c) Place the Kirtland/Ojo Alamo plug from 3444' – 3161' inside and outside the 7" casing.
  - d) Place the Nacimiento plug from 2053' – 1953' inside and outside the 7" and 9 5/8" casings.

You are also required to place cement excesses per 4.2 and 4.4 of the attached General Requirements.

Office Hours: 7:45 a.m. to 4:30 p.m.



**GENERAL REQUIREMENTS FOR  
PERMANENT ABANDONMENT OF WELLS ON FEDERAL AND INDIAN LEASES  
FARMINGTON FIELD OFFICE**

1.0 The approved plugging plans may contain variances from the following minimum general requirements.

1.1 Modification of the approved plugging procedure is allowed only with the prior approval of the Authorized Officer, Farmington Field Office.

1.2 Requirements may be added to address specific well conditions.

2.0 Materials used must be accurately measured. (densimeter/scales)

3.0 A tank or lined pit must be used for containment of any fluids from the wellbore during plugging operations and all pits are to be fenced with woven wire. These pits will be fenced on three sides and once the rig leaves location, the fourth side will be fenced.

3.1 Pits are not to be used for disposal of any hydrocarbons. If hydrocarbons are present in the pit, the fluids must be removed prior to filling in.

4.0 All cement plugs are to be placed through a work string. Cement may be bull-headed down the casing with prior approval. Cement caps on top of bridge plugs or cement retainers may be placed by dump bailer.

4.1 The cement shall be as specified in the approved plugging plan.

4.2 All cement plugs placed inside casing shall have sufficient volume to fill a minimum of 100' of the casing, or annular void(s) between casings, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.

4.3 Surface plugs may be no less than 50' in length.

4.4 All cement plugs placed to fill annular void(s) between casing and the formation shall be of sufficient volume to fill a minimum of 100' of the annular space plus 100% excess, calculated using the bit size, or 100' of annular capacity, determined from a caliper log, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.

4.5 All cement plugs placed to fill an open hole shall be of sufficient volume to fill a minimum of 100' of hole, as calculated from a caliper log, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug. In the absence of a caliper log, an excess of 100% shall be required.

5.0 All cement plugs spotted across, or above, any exposed zone(s), when; the wellbore is not full of fluid or the fluid level will not remain static, and in the case of lost circulation or partial returns during cement placement, shall be tested by tagging with the work string.

5.1 The top of any cement plug verified by tagging must be at or above the depth specified in the approved plan, without regard to any excess.

- 5.2 Testing will not be required for any cement plug that is mechanically contained by use of a bridge plug and/or cement retainer, if casing integrity has been established.
- 5.3 Any cement plug which is the only isolating medium, for a fresh water interval or a zone containing a prospectively valuable deposit of minerals, shall be tested by tagging.
- 6.0 Before setting any cement plugs the hole needs to be rolled. All wells are to be controlled by means of a fluid that is to be of a weight and consistency necessary to stabilize the wellbore. This fluid shall be left in place as filler between all plugs.
- 6.1 Drilling mud may be used as the wellbore fluid in open hole plugging operations.
- 6.2 The wellbore fluid used in cased holes shall be of sufficient weight to balance known pore pressures in all exposed formations.
- 7.0 A blowout preventer and related equipment (BOPE) shall be installed and tested prior to working in a wellbore with any exposed zone(s); (1) that are over pressured, (2) where the pressures are unknown, or (3) known to contain H<sub>2</sub>S.
- 8.0 Within 30 days after plugging work is completed, file a Sundry Notice, Subsequent Report of Abandonment (Form 3160-5), five copies, with the Field Manager, Bureau of Land Management, 1235 La Plata Highway, Suite A, Farmington, NM 87401. The report should show the manner in which the plugging work was carried out, the extent, by depth(s), of cement plugs placed, and the size and location, by depth(s), of casing left in the well. Show date well was plugged.
- 9.0 All permanently abandoned wells are to be marked with a permanent monument as specified in 43 CFR 3162.6(d). Unless otherwise approved.
- 10.0 If this well is located in a Specially Designated Area (SDA), compliance with the appropriate seasonal closure requirements will be necessary.

All of the above are minimum requirements. Failure to comply with the above conditions of approval may result in an assessment for noncompliance and/or a Shut-in Order being issued pursuant to 43 CFR 3163.1. You are further advised that any instructions, orders or decisions issued by the Bureau of Land Management are subject to administrative review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4 and 43 CFR 4.700.