

(June 1990)

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.

SF-078995

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Phillips Petroleum Company

3. Address and Telephone No.

5525 Hwy 64 NBU 3004, Farmington, NM 87401 (505) 599-3412

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1725' FSL & 1650' FWL
Section 31, T31N, R6W

7. If Unit or CA, Agreement Designation

San Juan 31-6 Unit

8. Well Name and No.

5

9. API Well No.

10. Field and Pool, or Exploratory Area

Blanco Mesa Verde

11. County or Parish, State

Rio Arriba, NM

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

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☒ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other

- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Phillips Petroleum Company proposes to P&A the above named well. Procedure and wellbore schematic are attached.

RECEIVED

FEB 25 1993

OIL CON. DIV.
DIST. 2

070 FARMINGTON, NM

93 FEB 12 AM 11:37

RECEIVED
BLM

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

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

Signed

[Signature]

Title

Drilling Supervisor

Date

2-10-93

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

Date

Title 18 U.S.C. Section 1001, makes 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.

*See Instruction on Reverse Side

APPROVED

FEB 19 1993

AREA MANAGER

NM000

**PLUG AND ABANDONMENT PROCEDURE
SAN JUAN 31-6 UNIT NO. 5
DECEMBER 17, 1992**

**** SMOKING PERMITTED IN DESIGNATED AREA ONLY ****

SAFE OPERATIONS ARE OF UTMOST IMPORTANCE AT ALL PHILLIPS PETROLEUM COMPANY PROPERTIES AND FACILITIES. TO FURTHER THIS GOAL, THE PHILLIPS SUPERVISOR AT THE LOCATION SHALL REQUEST TAILGATE SAFETY MEETINGS PRIOR TO THE INITIATION OF WORK AND ALSO PRIOR TO ANY CRITICAL OPERATIONS. THESE TAILGATE SAFETY MEETINGS SHALL BE ATTENDED BY ALL COMPANY, CONTRACT, AND SERVICE PERSONNEL THEN PRESENT AT THE LOCATION. ALL PARTIES SHALL REVIEW PROPOSED UPCOMING STEPS, PROCEDURES, AND POTENTIALLY HAZARDOUS SITUATIONS. OCCURRENCE OF THESE MEETINGS SHALL BE RECORDED IN THE DAILY REPORT. NO ONE WILL BE ALLOWED ON LOCATION WITHOUT A CURRENT H₂S CERTIFICATION. CURRENT CERTIFICATION CARDS SHALL BE REQUIRED.

Note: Notify BLM (327-5344) 24 hours prior to commencement of operations.

1. This well has been identified as having a sour gas (H₂S) hazard, therefore the following rules must be followed.
 - a. Only service companies who provided this office with a current certification of hydrogen sulfide training for their employees will be used for servicing this well.
 - b. Protective breathing equipment is required at the well site. 1 - 30 minute air pak required for each person.
 - c. Wind direction indicators shall be installed at strategic locations at or near the site and be readily visible from the site. Hydrogen sulfide warning signs shall be placed at the immediate access road(s) to the well site.
 - d. Automatic hydrogen sulfide detection and alarm equipment, with minimum requirements to be a three-point hydrogen sulfide monitor with audible and visible alarms (set point of 10 ppm & 15 ppm), shall be utilized.

Note: 184 joints of 2-3/8" tubing were removed from this well on 6/17/86, when this well was last worked on. The highest concentration of H₂S ever recorded on previous workover reports was 200 ppm (sampled on 6/16/92). Since there is a cement retainer set above the top perforation (retainer at 5005' and top perf at 5060'), the well pressure should bleed down rapidly. But due to the concentration of H₂S previously recorded, safety precautions shall be utilized during initial flow back and while NU BOP's.

2. MI & RU DDU. Record casing pressure of shut-in well on DCWR. Rig-up line from 5-1/2" X 2-3/8" annulus into rig pit. Rig

pit will be located down wind of rig. Slowly flow-back well into pit to determine ppm concentration of H₂S in gas stream using a dragger tube or GasTech tube, preferable detection ranges of 10-120 & 100-500 ppm. Flow well into rig pit until well bleeds down totally. Proceed to load hole with water to surface (122 bbls assuming dry hole). Monitor for 30 minutes to ensure well is dead.

3. ND wellhead and NU BOP. Test BOP's per PPCo. Well Control Manual. **Note: Run 5-1/2" casing scraper 1600' above end of 2-3/8" tubing.** GIH with open-ended 2-3/8", 4.7 lb/ft, J-55 workstring (while picking-up), tag cement retainer at 5005' and pick-up 1'. Establish circulation with water.

Note: All cement used to plug this well will be Class "B" neat cement having the following properties: 1.18 cf/sx yield, 15.6 ppg density and 5.2 gal/sx mix water.

4. Spot 10 sxs cement on top of cement retainer. POOH to 4900' and spot 9 lb/gas mud from 4900' to 3300' (40 bbls). COOH with 2-3/8" workstring and lay-down casing scraper. Pressure test casing to 500 psi for 5 minutes; if a leak exists, establish pump-in rate at 500 psi for 2 minutes.
5. GIH with 4" perforating gun and perforate four 1/2" holes in the 5-1/2" casing at 3297' (50' below the 7-5/8" casing shoe). COOH with perforating gun. Attempt to establish pump-in rate down 5-1/2" casing into perforations at 3297' (initially at 500 psi to compare with previous pump-in rate at 500 psi, if any). Proceed to GIH with 5-1/2" cement retainer on 2-3/8" workstring and set retainer at 3250'. Test 2-3/8" workstring to 3000 psi. Re-establish pump-in rate into perforations at 3297'.
6. Pump 85 sxs cement under the retainer (with 5-1/2" X 7-5/8" annular valve, or intermediate valve, open for monitoring circulation) and spot 90 sxs on top of cement retainer: this plug will cover from 50' below the 7-5/8" casing shoe to 50' above the top of the Fruitland formation (i.e. from 3297' to 2733'). POOH with 2-3/8" workstring to 2550' and reverse circulate hole clean. COOH with 2-3/8" workstring and lay-down setting tool. Pressure test 5-1/2" casing to 500 psi for 5 minutes; if a leak exists, establish pump-in rate at 500 psi for 2 minutes.
7. Perforate six 1/2" holes through the 5-1/2" and 7-5/8" casings at 2500' (50' below the bottom of the Ojo Alamo); pump into the perforations at 2500' (initially at 500 psi to compare with previous pump-in rate at 500 psi, if any) and out the intermediate valve. GIH with 5-1/2" cement retainer on 2-3/8" workstring and set retainer at 2450'. Test workstring to 3000 psi.

8. Pump 50 sxs cement under the retainer (with 7-5/8" X 10-3/4" annular valve, or bradenhead valve, closed and the intermediate valve open) and spot 40 sxs on top of the cement retainer. This plug will cover from 50' below the Ojo Alamo to 50' above the Ojo Alamo (i.e. from 2500' to 2224').
9. POOH to 2100' then spot mud from 2100' to 263' (45 bbls). COOH with workstring. Pressure test 5-1/2" casing to 500 psi: if a leak exists, establish pump-in rate at 500 psi for 2 minutes.
10. Perforate four 1/2" holes through the 5-1/2" and 7-5/8" casings at 263' (50' below the bottom of the surface casing). Pump into the perforations (initially at 500 psi to compare with previous pump-in rate at 500 psi, if any) and out both the intermediate and bradenhead valves.
11. Pump 70 sxs cement down 5-1/2" casing through perfs at 263'; initially with intermediate closed and bradenhead open until cement circulates through bradenhead. Then close bradenhead valve and open intermediate valve. When cement circulates to surface through the intermediate valve, close intermediate valve and squeeze cement (do not exceed 1000 psi surface pump pressure while squeezing) into any leaks before shutting-down.
12. ND BOP's then cut-off wellhead and install P&A marker. RDMO DDU. Restore and reseed location per BLM requirements.

PPCo. Tubular Allowable Pressure Ratings

	PSI <u>Burst</u>	PSI <u>Collapse</u>	Lbs <u>Tension</u>	Inches <u>Drift</u>
5-1/2", 14#/ft, J-55	4,000	2,940	105,000	4.887
2-3/8", 4.7#/ft, J-55	6,290	7,040	47,700	1.901

**PHILLIPS PETROLEUM COMPANY
FARMINGTON AREA**

KB @ 6213
CNF @
CL @ 6201

Date: December 17, 1992
Lease Type: Federal
Lease & Well No.: San Juan 31-6 Unit No. 5
Legal Description: 1725' FSL & 1650' FWL, SW/4 Sec 31, T31N-R6W
County: Rio Arriba County State: New Mexico
Field: Mesaverde
Status: Shut in
Tbg.:
Date Drilled: 9/55
Hole/Casing Condition: 6/86: Fish parted 2-3/8" tubing out of hole in 3 days; Welex ran csg. inspection log from 5100' to ? (log not in wellfile); set cmt. ret. @ 5005'; took M2S readings of 200 ppm from gas coming out of casing; RDMO & shut-in well.
Workover Proposal: Plug and Abandon (See attached procedure)

xxxxxx = Proposed Cement Retainer

= Proposed Cement

█ = Existing Cement

FORMATION DEPTHS

	TOP	BTM
Ojo Alamo	2274'	2448'
Kirtland	2448'	2783'
Fruitland	2783'	3000'
Pictured Cliffs	3000'	3229'
Lewis Shale	3229'	5059'
Cliffhouse	5059'	5139'

CAPACITIES (cubic feet/ft)

2-3/8"	0.0217
2-3/8" X 5-1/2"	0.1062
5-1/2"	0.1370
5-1/2" X 7-5/8"	0.1042
5-1/2" X 6-3/4"	0.0835
7-5/8" X 9-7/8"	0.2148
7-5/8" X 10-3/4"	0.2495

10-3/4" @ 213'
32.75# H-40
TOC @ Surface
Cmt w/ 160 sxs (4% gel)
15" Hole Size

7-5/8" @ 3247'
24# H-40
Est. TOC @ 2096' (25% exc.)
Cmt w/ 130 sxs (8% gel) & 50 sxs reg.
9-7/8" Hole Size

Cement Retainer @ 5005'

Mesaverde Perfs:

5060'-5563' OA

5-1/2" @ 5569'
14# J-55
Est. TOC @ 3940' (25% exc.)
Cmt w/ 125 sxs (2% gel)
6-3/4" Hole Size

TD @ 5569'
PBTD 5538'

IN REPLY REFER TO
(019)

UNITED STATES DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT
FARMINGTON RESOURCE AREA
1235 LA PLATA HIGHWAY
FARMINGTON, NEW MEXICO 87401

Attachment to Notice of

Re: Permanent Abandonment

Intention to Abandon

Well: #5 San Juan 31-6 Unit

CONDITIONS OF APPROVAL

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal Leases."

2. Mark Kelly with the Farmington Office is to be notified at least 24 hours before the plugging operations commence (505) 599-8907

3. Blowout prevention equipment is required.

4. The following modifications to your plugging program are to be made (when applicable): 1.) Pump 65 sks cement under return set @ 5005'.

2) Perforate @ 2304' (Oso Alamo - 2051' to 2254') thru 5 1/2" x 7 5/8" casing and place a cement plug from 2304' to 2001' plus 100 ft excess inside & outside the casing strings. If an injection rate cannot be established in the perforations @ 2304' (Coke Tee - 7520H - 2095'), perforate at 2031' thru the 5 1/2" and 7 5/8" casing and place a cement plug from 2031' to 1951' plus 100 ft excess inside & outside the casing strings.

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

3) Perforate @ 869' thru the 5 1/2" x 7 5/8" casing strings and place a cement plug from 869' to 769' plus 100 ft excess inside & outside the casing strings. (Nucimint Top 819')

4) If a hole(s) exist in the casing above the Oscillatory
Pkg (2304' to 2001'), it is required that it be squeezed
with cement. (May help contain H₂S source)

BLM CONDITIONS OF APPROVAL

Operator Phillips Petroleum Co. Well Name 5 San Juan 31-6 Un

Legal Location 1725'FSL/1650'FWL Sec. 31 T. 31 N. R. 6 W.

Lease Number SF-078995 Field Inspection Date n/a

The following stipulations will apply to this well unless a particular Surface Managing Agency (SMA) or private surface owner has supplied to BLM and the operator a contradictory environmental stipulation. The failure of the operator to comply with these requirements may result in the assessments or penalties pursuant to 43 CFR 3163.1 or 3163.2. A copy of these conditions of approval shall be present on the location during construction, drilling and reclamation activity.

An agreement between operator and fee land owner will take precedence over BLM surface stipulations unless (In reference to 43 CFR Part 3160) 1) BLM determines that operator's actions will affect adjacent Federal or Indian surface, or 2) operator does not maintain well area and lease premises in a workmanlike manner with due regard for safety, conservation and appearance, or 3) no such agreement exists, or 4) in the event of well abandonment, minimal Federal restoration requirements will be required.

1. No construction, drilling or completion activities shall be conducted between November 1 and March 31 because of eagle wintering habitat.

2. Do not disturb any existing trees or vegetation, keep all activities on existing well pad.