

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.  
SF-080066

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.  
San Juan 30-5 Unit

8. Lease Name and Well No.  
SJ 30-5 Unit #213R

9. API Well No.  
30-039-26523

10. Field and Pool, or Exploratory  
Basin Fruitland Coal

11. Sec., T., R., M., or Blk. and Survey or Area  
Section 5, T30N, R5W

12. County or Parish  
Rio Arriba

13. State  
NM

17. Spacing Unit dedicated to this well

319.69 E/2

20. BLM/BIA Bond No. on file  
ES00048

23. Estimated duration  
20 - 30 days

1a. Type of Work ☒ DRILL ☐ REENTER

1b. Type of Well ☐ Oil Well ☒ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone

2. Name of Operator  
Phillips Petroleum Company

3a. Address  
5525 Highway 64, NBU 3004, Farmington, NM 87401

3b. Phone No. (include area code)  
505-759-3454

4. Location of Well (Report location clearly and in accordance with any State requirements)\*

At surface Unit H, 2629' FNL & 697' FEL

At proposed prod. zone Same as above

14. Distance in miles and direction from nearest town or post office\*  
36 miles east of Blanco

15. Distance from proposed\*  
location to nearest  
property or lease line, ft. 697'  
(Also to nearest drg. unit line, if any)

16. No. of Acres in lease  
1158.12

18. Distance from proposed location\*  
to nearest well, drilling, completed,  
applied for, on this lease, ft.

19. Proposed Depth  
3255'

21. Elevations (Show whether DF, KDB, RT, GL, etc.)  
6455' GL

22. Approximate date work will start\*  
4th Qtr 2000

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature  
*Patsy Clugston*

Name (Printed/Typed)  
Patsy Clugston

Date  
10/6/00

Title  
Sr. Regulatory/Proration Clerk

Approved by (Signautre)  
*/s/ Jim Lovato*

Name (Printed/Typed)

Date  
10/5

Title  
Office

Application approval 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.  
Conditions of approval, if any, are attached.

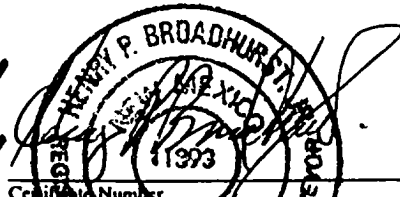
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on Reverse)*  
This action is subject to technical and  
procedural review pursuant to 43 CFR 3165.3  
and appeal pursuant to 43 CFR 3165.4.

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

HOLD 0104 FOR SUBSEQUENT ACTION ON COMPT. ST  
30-5U#213 to POW

NMOCD

16	N89°57'W	5280.00'	17 OPERATOR CERTIFICATION
8	7	6	I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief
5265.48'		SF-080066 1158.12 acres	Signature <i>Patsy Clugston</i>
		Section 5	Printed Name Patsy Clugston
			Title Sr. Regulatory/Proration Clerk
			Date October 6, 2000
S00°06'E			18 SURVEYOR CERTIFICATION
			I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.
			09/20/00
			Date of Survey
			Signature and Seal of Professional Surveyor:
N89°58'E		5279.34'	

# PHILLIPS PETROLEUM COMPANY

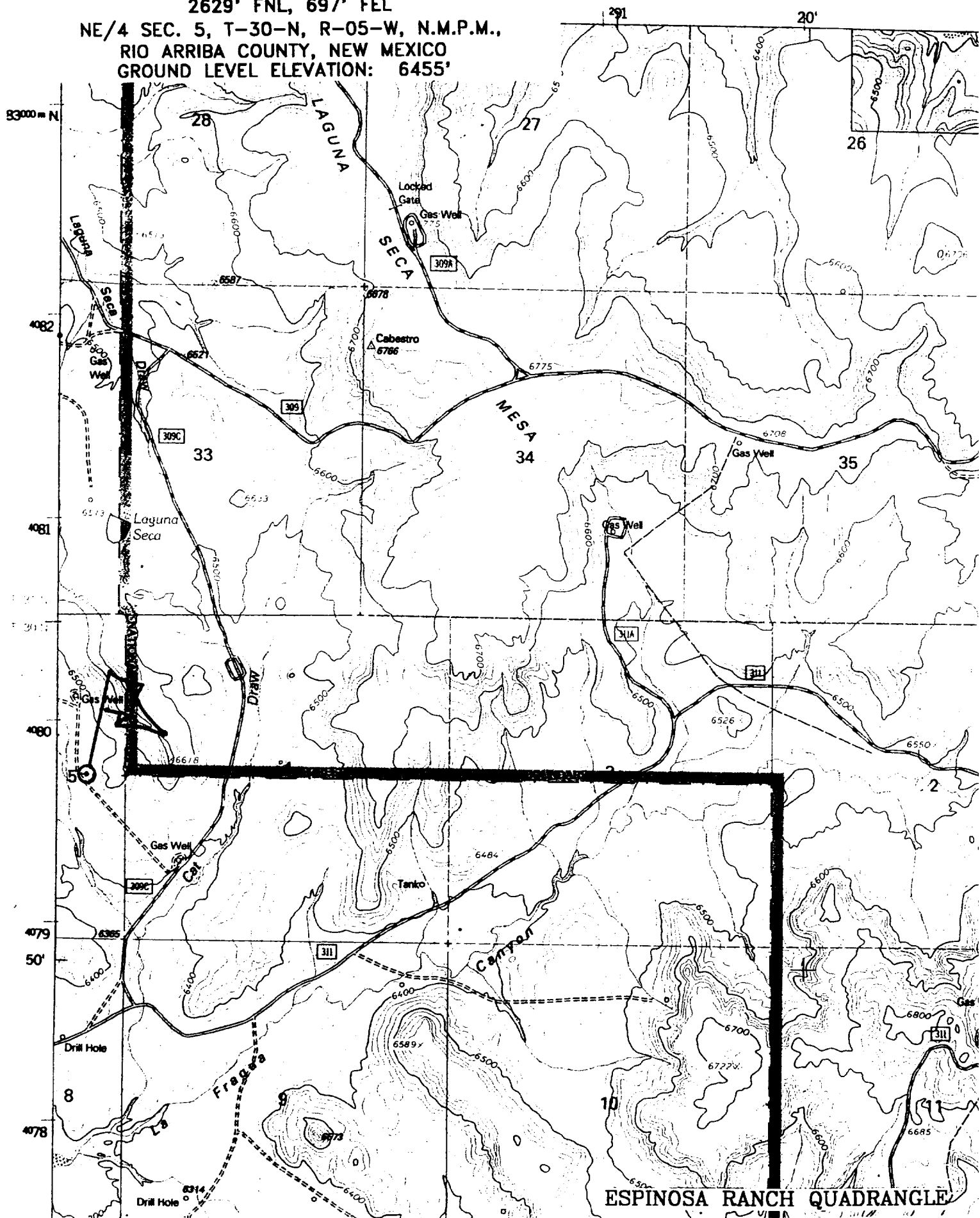
## SAN JUAN 30-5 UNIT No. 213R

2629' FNL, 697' FEL

NE/4 SEC. 5, T-30-N, R-05-W, N.M.P.M.,

RIO ARriba COUNTY, NEW MEXICO

GROUND LEVEL ELEVATION: 6455'



ESPINOSA RANCH QUADRANGLE

## PHILLIPS PETROLEUM COMPANY

WELL NAME: San Juan 30-5 Unit #213R

### DRILLING PROGNOSIS

1. Location of Proposed Well: Unit H, 2629' FNL & 697' FEL  
Section 5, T30N, R5W
2. Unprepared Ground Elevation: @ 6455'
3. The geological name of the surface formation is San Jose.
4. Type of drilling tools will be rotary.
5. Proposed drilling depth is 3255'.
6. The estimated tops of important geologic markers are as follows:

<u>Nacimiento - 1515'</u>	
<u>Ojo Alamo - 2555'</u>	<u>Base of Coal - 3255'</u>
<u>Kirtland - 2765'</u>	<u>Picture Cliffs - 3260'</u>
<u>Fruitland - 3025'</u>	<u>Interm. Casing - 3115'</u>
<u>Top of Coal - 3135'</u>	<u>T. D. - 3255'</u>
7. The estimated depths at which anticipated water, oil, gas or other mineral bearing formations are expected to be encountered are as follows:

Water:	<u>Ojo Alamo - 2555' - 2765'</u>
Oil:	<u>none</u>
Gas:	<u>Fruitland Coal - 3135' - 3255'</u>
Gas & Water:	<u>Fruitland Coal - 3135' - 3255' -</u>
8. The proposed casing program is as follows:

Surface String: 9-5/8", 36#, J/K-55 @ 200' \*

Intermediate String: 7", 20#, J/K-55 @ 3115'

Production Liner: 5-1/2", 3095' - TD (see details below)

\* The surface casing will be set at a minimum of 200', but could be set deeper if required to maintain hole stability.

## 9. Cement Program:

Surface String: 102.7 sx Type III cement. Cement to surface w/110% excess of casing/hole annulus volume w/Type III cement + 2% bwoc Calcium Chloride + 0.25#/sx Cello-flake + 60.6% Fresh water (14.5 ppg). (1.41 cf/sx yield = 145 cf)

Intermediate String: **Lead Cement:** 353.9 sx Type III cement. Cement to surface - 110% excess casing/hole annular volume w/ Type III cement + 0.25#/sx Cello-flake + 5#/sx Gilsonite + 6% bwoc Bentonite + 10#/sx CSE + 3% bwow KCL + 0.4% bwoc FL-25 mixed + 0.02#/sx static free mixed at 12.0 ppg. (2.52 cf/sx yield = 891.8 cf)

**Tail:** 50 sx Type III cement + 0.25#/sx Cello-flake + 1% Calcium Chloride mixed at 14.5 ppg. (1.40 cf/sx yield = 70 cf)

Centralizer Program:

Surface: Total four (4) - 10' above shoe and top of 2<sup>nd</sup>, 3<sup>rd</sup>, & 4<sup>th</sup> jts.

Intermediate: Total seven (7) - 10' above shoe and top of 1<sup>st</sup>, 2<sup>nd</sup>, 4<sup>th</sup>, 6<sup>th</sup>, 8<sup>th</sup>, & 1<sup>st</sup> jt. into shoe.

Turbulators: Total three (3) - one at 1<sup>st</sup> jt below Ojo Alamo and next 2 jts up.

Liner :

- If the coal is cleated a 5 ½" 15.5# liner will be run in the open hole without being cemented.
- If the coal is not cleated, a 4-1/2" 11.6# liner will be run & cemented. The well will then be completed by fracture stimulation.

10. The minimum specifications for pressure control equipment which are to be used, a schematic diagram thereof showing sizes, pressure ratings (or) API series and the testing procedure and testing frequency are enclosed within the APD packet.

11. Drilling Mud Prognosis: Surface - spud mud on surface casing.  
Intermediate - fresh water w/polymer sweeps. Bentonite as required for viscosity.  
Below Intermediate - air drilled.

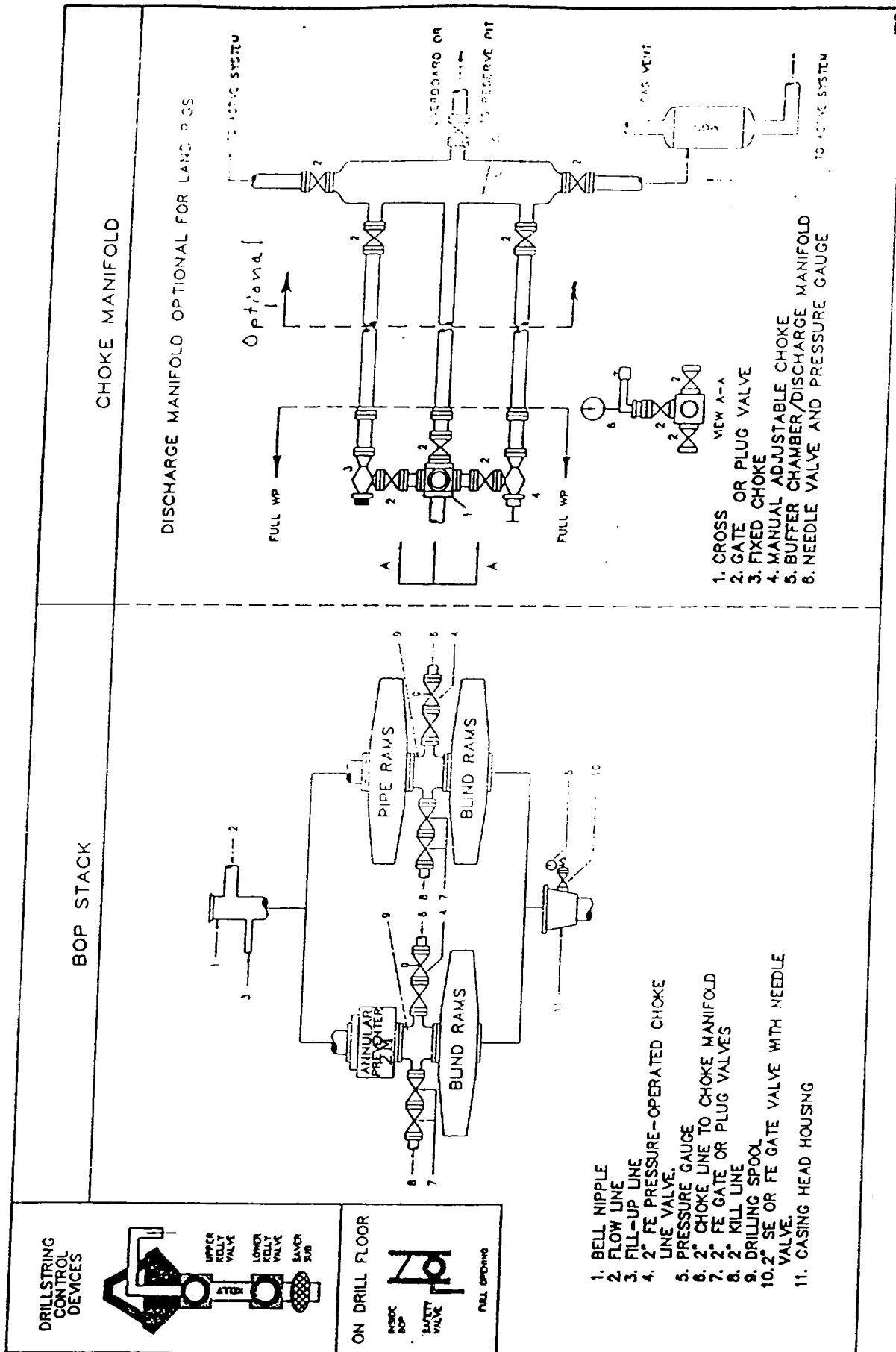


Fig. 2.4. Class 2 BOP and Choke Manifold.