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

APPLICATION FOR PERMI	T TO DRILL OR RECEIVER	(3) Lease Senai No.
a. Type of Work X DRILL -	□ REENTER C DEC 2000	SF-080179 6. If Indian, Allotee or Tribe Name
b. Type of Well Oil Well X Gas Well	The Edition of the County of t	7. Unit or CA Agreement Name and No. San Juan 29-5 Unit
Name of Operator Phillips Petroleum Company a. Address	3b. Phone No. (include are	8. Lease Name and Well No. SJ 29-5 Unit #49A
5525 Highway 64, NBU 3004, Farmington, Location of Well (Report location clearly and in accorda	NM 87401 505-599-3454	30-C39-26592
At surface Unit F, 1850' FNL & 1450' FWI		10. Field and Pool, or Exploratory Black Section 9, T29N, R5W plack and 11. Sec., T., R., M., or Blk. and Survey or A
	as above	Section 9, T29N, R5W
 Distance in miles and direction from nearest town or post 30 miles 	office* from Blanco, NM	12. County or Parish 13. State Rio Arriba, NM
5. Distance from proposed* location to nearest property or lease line, ft. 1450'	16. No. of Acres in lease	17. Spacing Unit dedicated to this well
(Also to nearest drg. unit line, if any)	640 acres	320 W/2
 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 	19. Proposed Depth 6159'—	20. BLM/BIA Bond No. on file ES0048
. Elevations (Show whether DF, KDB, RT, GL, etc. 6817' GL —	22. Approximate date work will 4th Qtr 2000	11 start* 23. Estimated duration 20 days
	24. Attachments	
he following, completed in accordance with the requirement	s of Onshore Oil and Gas Order No. 1, shall be a	ttached to this form:
 Well plat certified by a registered surveyor. A Drilling Plan A Surface Use Plan (if the location is on National Forest SUPO shall be filed with the appropriate Forest Service C 	Item 20 above). System Lands, the 5. Operator certification.	rations unless covered by an existing bond on file (see c information and/or plans as may be required by the
5. Signuature	Name (Printed/Typed)	Date
tile Sn. Pogulatony/Propation Clark	Patsy Clugston	
Sr. Regulatory/Proration Clerk pproved by (Signautre) /s/ Jim Loval	Name (Printed/Typed)	Date Û
itle	Office	
pplication approval does not warrant or certify that the applonduct operations thereon. onditions of approval, if any, are attached.	icant holds legal or equitable title to those rights	in the subject lease which would entitle the applicant to

*(Instructions on Reverse)

The access to related to bedrace seed procedural review guideant in to GHR 3185.3 and appeal pursuant to 43 OFR 3185.4.

DENIET OF CONTROL OF RESTRICTIVED ARE SUBSCIENT OF CONTROL OF CONTROL OF CONTROL OF CONTROL ATTACHED "GENERAL RESUMEMBERS"

District 1

Pt) Bux 1980, Habbs, NAI 88241-1980

District II

811 South First, Artesia, NM 88210

District III

1000 Rio Bruzus Rd., Astec, NM 87410

District IV

2040 South Pacheco, Santa Fe, NM 87505

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

State of New Mexico Minerals & Natural Remurcos Department

Form C-102 Revised October 18, 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

30-03 9- 40 Nymber	72319 72319	72319 Blanco Mesaverde					
1 Property Code 009256	SAN	SAN JUAN 29-5 UNIT					
'OGRID No. 017654	PHILLI	Operator Name IPS PETROLEUM CO.	* Elevation 6817				

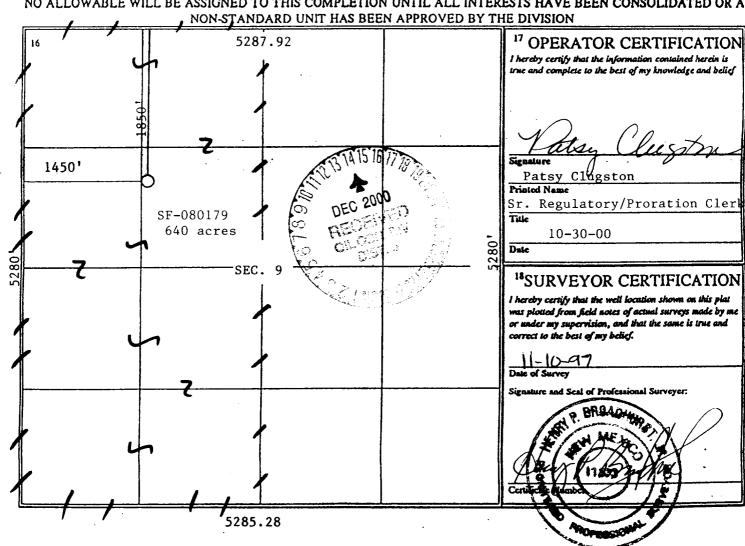
10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	9	29N	5W		1850	NORTH	1450	WEST	RIO ARRIBA

11 Bottom Hole Location If Different From Surface

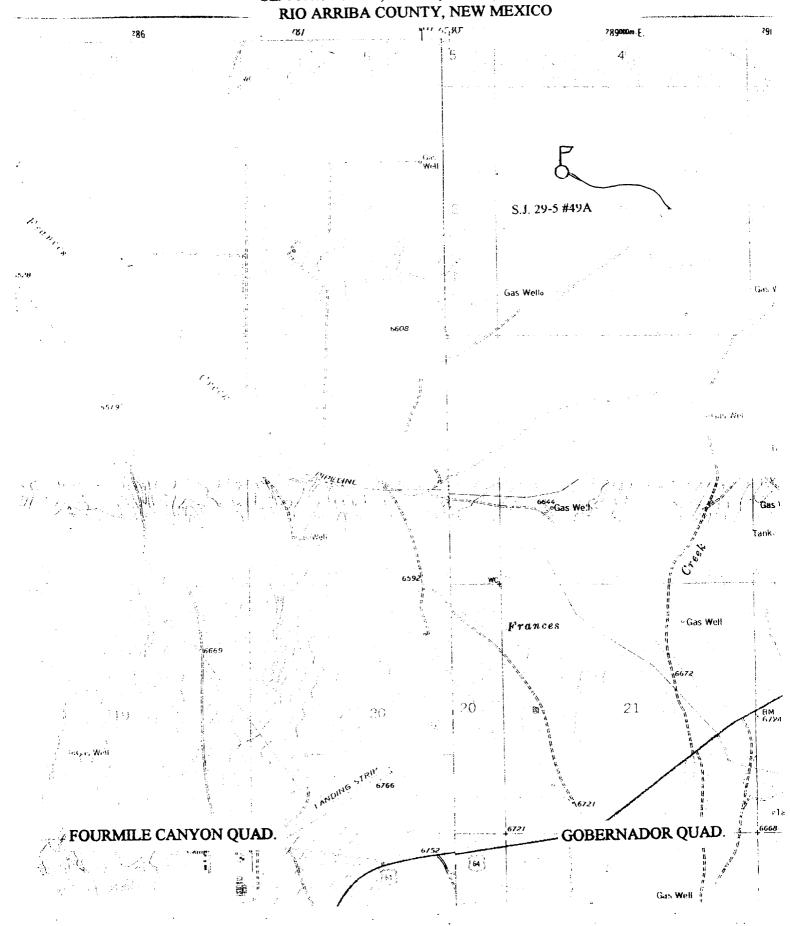
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F		_							
12 Dedicated Acre	Joint o	er Infill	" Consolidation	n Code "	Order No.				
320 W/2	Y		U					**	

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A



PHILLIPS PETROLEUM CO. SAN JUAN 29-5 UNIT #49A

SE/4 NW/4 SEC.9, T.29 N., R.5 W., N.M.P.M., RIO ARRIBA COUNTY, NEW MEXICO



PHILLIPS PETROLEUM COMPANY

WELI	L NAME: San Juan 29-5 #49A MV
DRIL	LING PROGNOSIS Location of Proposed Well: Unit F, 1850' FNL & 1450' FWL Section 9, T29N, R5W
2.	Unprepared Ground Elevation: <u>(a. 6817 (unprepared)</u> .
3.	The geological name of the surface formation is <u>San Jose</u> .
4.	Type of drilling tools will be <u>rotary</u> .
5.	Proposed drilling depth is 6159 - '.
6.	The estimated tops of important geologic markers are as follows:
	Naciamento - 1254' Lewis Shale - 3826' Ojo Alamo 2983' Cliff House Ss - 5424' Kirtland Sh - 3100' Menefee Fm - 3951' Fruitland Fm3432' Pt. Lookout - 5930' Pictured Cliffs - 3767' Mancos Sh - 6039'
7.	The estimated depths at which anticipated water, oil, gas or other mineral bearing formations are expected to be encountered are as follows:
	Water: Ojo Alamo - 2983' - 3100' Gas & Water: Fruitland - 3432' - 3767' Gas: Mesaverde - 5624' - 5930'
8.	The proposed casing program is as follows:
	Surface String: 9-5/8", 32.3#, H-40 @ 320° Intermediate String: 7", 20#, J/K-55 @ 3951° Production String: 4-1/2", 11.6#, N-80 @ 6159° (TD)
9.	Cement Program: Surface String: 158.5 sx Type III cement with 2% bwoc CaCl2 + ½#/sx Cello- flake mixed at 14.5 ppg with a 1.41 ft3/sx yield w/46.5% H2O or sufficient to circulate to surface – 223 cf.

Note: Cement slurry calculations based on cement to surface with 140% excess hole volume.

Intermediate String: Lead Cement: 477.5 sx Type III cement (35:65) POZ with 5#/sx

Gilsonite, ¼#/sx Cello-flake, 6% bwoc gel (bentonite), 10#/sx CSE, 3% bwow KCL, 0.4% bwoc FL-25 mixed and 0.02#/sx Static Free mixed at 12.0 ppg with a yield of 2.37 ft3/sx – 1131 cf.

<u>Tail Cement</u>: 50 sx – Type III cement with ½#/sx Cello-flake and 1% CaCl2 mixed at 14.5 ppg with a 140. Ft3/sx yield (70 cf).

In the event we encounter fluid loss during drilling operations, a contingency plan for cementing the intermediate casing may require a stage collar. Phillips cannot predict exact volumes. However the 1st stage will be Cl H cement w/5#/sx Gilsonite, 0.25#/sx Cello-flake, 0.3% FL-25 & 2% CaCl2 mixed at 15.2 ppg 1.28 yield. Stage 2 - lead slurry: 65 % Class H & 35% POZ w/6% Bentonite mixed at 12.6 ppg 1.79 cf/sx Tail Slurry - Class H w/2% CaCl2 mixed at 15.6 ppg 1.20 yield. All attempt to be circulated to surface.

Production String

Lead: 155.2 sx Type III (35/65 POZ (Fly Ash) with 6% bwoc Bentonite, 10#/sx CSE, 0.2#/sx Static Free, 1% bwoc FL-52, 0.3% bwoc CD-32, 0.3% bwoc R-3 & 0.25#/sx Cello-Flake mixed at 12.3 ppg w/yield of 2.23 ft3/sx - 334 cf.

Note: The Production String casing cement is designed to cover openhole section (with 40% excess) and 100' inside the 7" shoe.

Note: Phillips Petroleum continually works to improve the cement slurries on our wells. BJ Services is currently trying to improve what we are using now and before we would use a new cement program it would have to have stronger properties than we are currently using.

Centralizer Program:

Surface: Total four (4) 1 @ 10' above shoe & top of 2nd, 4th & 6th joint

Intermediate: Total seven (7) – 10' above shoe, top of 1st, 2nd, 4th, 6th, & 8th its &

1 jt. Above surface casing.

Production: None planned.

Turbulators: Total Three (3) – on intermediate casing at 1st it. Below the Ojo

Alamo and next 2 its up.

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.

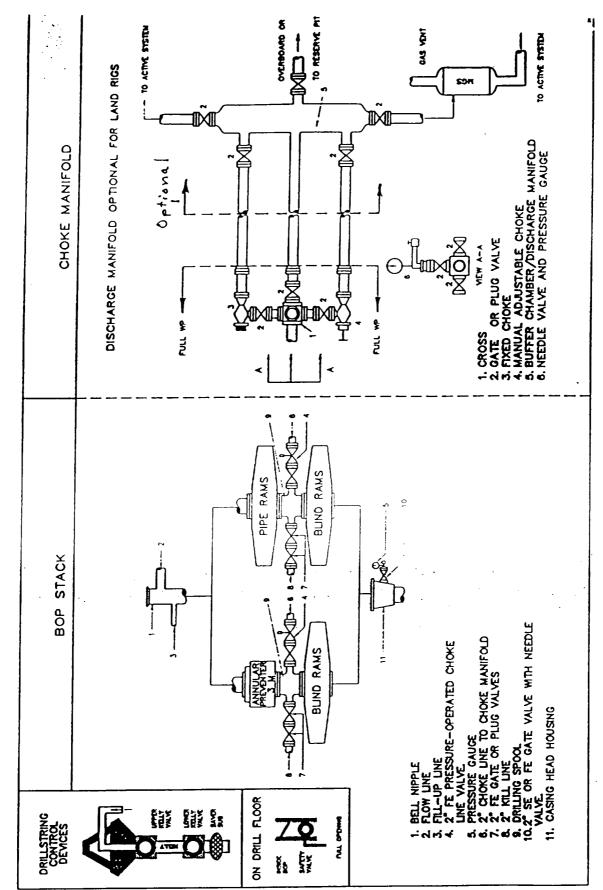


Fig. 2.4. Class 2 BOP and Choke Manifold.