## PHILLIPS PETROLEUM COMPANY

Preliminary 03/18/96

Well N	Vame: San Juan 32-7 #13A					
DRIL	LING PROGNOSIS					
1.	Location of Proposed Well: 1546' FNL & 826' FWL, Sec. 16, T-32-N,R-7-W, San Juan County, New Mexico Unprepared Ground Elevation: 6652'.					
2.						
3.	The geologic 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 <u>6400'</u> .					
6.	The estimated tops of important geologic markers are as follows:					
	Ojo Alamo         2430'         Lewis         3765'           Kirtland         2385'         Cliff House         5585'           Fruitland         3180'         Menefee         5630'           Pictured Cliffs         3525'         Pt Lookout         5850'					
7.	The estimated depths at which anticipated water, oil, gas, or other mineral bearing formation are expected to be encountered are as follow:  Water: Ojo Alamo - 2430'  Gas & Water: Fruitland - 3180'  Gas: Mesaverde - 5585' - 6400'					
8.	The proposed casing program is as follows:					
	Surface String 9-5/8", 36#, J-55 @ 250' Intermediate String 7", 20#, K-5 5 @ 4000' Production String 4-1/2", 10.5# Liner 3900-6400' Production Tubing 2-3/8" 4.7# J-55 @ 5600'					
9.	Cement Program:					
	Surface String 130 sx Cl B + 2% CaCl <sub>2</sub> + .25 lb/sx celloflake					
	Intermediate String Flush: 10 bbls mud flush, then 10 bbls fresh water.  Lead cmt: 325 sx 35/65 POZ + 2% CaCl <sub>2</sub> + .25 lb/sx celloflake					
Tail cmt: 100 sx Class B + 2% CaCl <sub>2</sub> +.25 lb/sx Celloflake						

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Production String:	Flush:	20 bbls mud	flush, the	en 10 bbls	fresh water.
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Lead =

275 sx Cl B + Fluid Loss

## Centralizer Program:

Surface:

Centralizer at 10' above shoe. Top of 2nd and 6th joints.

Intermediate: Centralizer at 10' above shoe 2nd Jt.

Top of every other joint until a total of 8 centralizers have been used.

Production: Centralizer at 10' above shoe. Top of 2nd Jt.

- Production Control Equipment: Schematic diagrams thereof showing sizes, pressure ratings 10. (or) API series are enclosed within the APD packet.
- <u>Drilling Mud Prognosis</u>: Surface to Bottom of 8-3/4" Hole: 11.

Low solids, non-dispersed, 9.0 ppg+, fresh water base mud.

6-1/4" Hole Section:

Air or Gas Drilled

The testing, logging, and coring programs are as follows: 12.

D.S.T.'s or cores: None

Logs: Temperature Survey and GR Special Tests: None

- Anticipate no abnormal pressures or temperatures to be encountered or any other potential 13. hazards such as Hydrogen Sulfide Gas. Low risk H<sub>2</sub>S equipment will be used.
- The anticipated starting date will be in the 2nd quarter of 1996 with duration of operations 14. for approximately 30 days thereafter.