FFOFVEL Form 3160-3 FORM APPROVED (August 1999) OMB No. 1004-0136 2m2 0CT -1 AM II: 29 UNITED STATES Expires November 30, 2000 DEPARTMENT OF THE INTERIOR ease Serial No. 070 FARMINGTO **BUREAU OF LAND MANAGEMENT** NM 20314 6. If Indian, Allottee or Tribe Name APPLICATION FOR PERMIT TO DRILL OR REENTER 7. If Unit or CA Agreement, Name and No. la. Type of Work: X DRILL REENTER 8. Lease Name and Well No b. Type of Well: Oil Well Gas Well Other X Single Zone Multiple Zone Roosevelt #3 2. Name of Operator 9. API Well No. Calpine Natural Gas Company 30 045 3A. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory c/o Walsh Engineering, 7415 E. Main, Farmington, NM 87402 505.327.4892 4. Location of Well (Report location clearly and in accordance with any State requirements.*) 11. Sec., T., R., M., or Blk, and Survey or Area At surface 1880' FSL and 850' FEL At proposed prod. Zone Section 22, T30N, R14W 14. Distance in miles and direction from nearest town or post office* 12. County or Parish 13. State 3 miles west of Farmington, NM San Juan NM 15. Distance from proposed 16. No. of Acres in lease 17. Spacing Unit dedicated to this well location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 850' 480 **SE/4 160 acres** Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft 19. Proposed Depth 20. BLM/BIA Bond No. on file 2500' 1500' 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 5646' GL October 2002 2 weeks 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. Bond to cover the operations unless covered by an existing bond on file (see 2. A Drilling Plan. Item 20 above). 3. A Surface Use Plan (if the location is on National Forest System Lands, th 5. Operator certification. SUPO shall be filed with the appropriate Forest Service Office. Such other site specific information and/or plans as may be required by the authorized office. 25. Signature Name (Printed/Typed) Date Paul C. Thompson, P.E. 9/23/02 Title Agent Approved by (Signature) /s/ David J. Mankiewicz Name (Printed/Typed) 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)

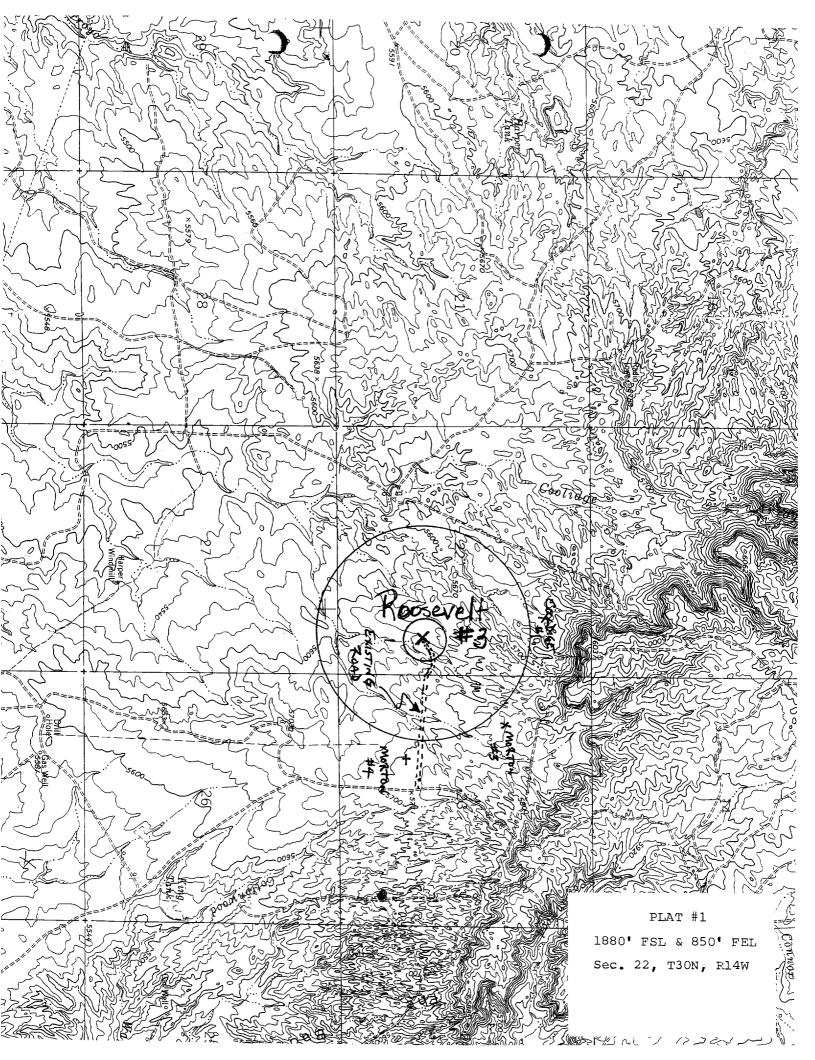
Form C - 102

State of New Mexico Energy. Minerals & Mining Resources Department OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe. NM 87505

2040 South Pacheco
Sonta Fe. NM 87505

MELLOCATION AND ACREAGE DEDICATION BLAT

30-045-31223 Pool Code HurperHill Pool None Fruit land sand											
Property Code					Property No	Well Number					
2011	<u> </u>	ļ		3							
OGRD N 19480				Bevation							
19460		L		CAL	PINE NATUR	5646					
Surface Location											
	1 I	· 1	Rge.	Lot ldn.	1		Feet from>	East/West	County		
22 30 N. 14 W.			<u> </u>	1880	SOUTH	850	EAST	SAN JUAN			
Bottom Hole Location If Different From Surface											
			94-	COLOR	Last Hous	I WOLTEN SOUTH	Feet Foan >	East/West	County		
Dedication 160	Consolidation		tion SIGNED TO	Order No.							
55	:il W	1 - 130 1 - 130	020	— 22 —	NAD 27 36 47'51.43' 08'17'23.19' W	N 9	850	OPERA I hereby a contained to the bebelief. Signature Printed No Paul Title Date 9/24 SURVE I hereby a contribution of my belief. Signature Professional Signature Professional	ent 4/02 YOR CERTIFICATION certify that the well location of was plotted from field actual surveys made by me may supervision, and that the use and correct to the best ief.		
	<u></u>		- 10								



CALPINE NATURAL GAS CORP. OPERATIONS PLAN Roosevelt #3

I. Location: 1880' FSL & 850' FEL

Date: September 23, 2002

Sec 22 T30N R14W San Juan County, NM

Field: Twin Peaks Pictured Cliffs

Elev: GL 5646'

Surface: Bureau of Land Management

Minerals: Federal NM 20314

II. Geology: Surface formation _ Ojo Alamo

Α.	Formation Tops	Depths	
	Fruitland	825′	
	Pictured Cliffs	1272'	
	Total Depth	1500'	

Estimated depths of anticipated water, oil, gas, and other mineral bearing formations which are expected to be encountered:

Water and gas - 825' and 1272'.

- B. Logging Program: Induction/GR and density logs at TD.
- C. No over pressured zones are expected in this well. No ${\rm H}_2{\rm S}$ zones will be penetrated in this well. Max. BHP = 600 psig.

III. Drilling

- A. Contractor:
- B. Mud Program:

The surface hole will be drilled with a fresh water mud

The production hole will be drilled with a fresh water polymer mud. The weighting material will be drill solids or if conditions dictate, barite. The maximum mud weight expected is 8.5 ppg.

C. Minimum Blowout Control Specifications:

Double ram type or annular type 2000 psi working pressure BOP with a rotating head. See the attached exhibits (#1 and #2) for details on the BOP equipment. All ram type preventers and related equipment will be hydraulically tested at nippleup and after any use under pressure to 1000 psi.

C. Cont.

The blind rams will be hydraulically activated and checked for operational readiness each time pipe is pulled out of the hole. All checks of the BOP stack and equipment will be noted on the daily drilling report. The BOP equipment will include a kelly cock, floor safety valve, and choke manifold all rated to 2000 psi.

IV. Materials

A. Casing Program:

Hole Size	Depth	Casing Size	Wt. & Grade
8-3/4"	120'	7 "	20# K-55
6-1/4"	1500 ′	4-1/2"	10.5# K-55

- B. Float Equipment:
- a) Surface Casing: None
- b) Production Casing: 4-1/2" cement guide shoe and self fill insert float collar. Place float one joint above shoe. Five centralizers spaced every other joint above shoe and five turbolizers every other joint from the top of the well.

V. Cementing:

Surface casing: 7" - Use 50 sx (59 cu. ft.) of Cl "B" with $2\% \text{ CaCl}_2$ (Yield = 1.18 cu. ft./sk; slurry weight = 15.6 PPG). 100% excess to circulate cement to surface. WOC 12 hours. Pressure test surface casing to 600 psi for 30 min.

Production Casing: 4-1/2" - Before cementing circulate hole with at least 1-1/2 hole volumes of mud. Precede cement with 30 bbls of fresh water. Lead with 130 sx (258 cu.ft) of Cl "B" with 2% metasilicate. (Yield = 2.06 cu.ft./sk; slurry weight = 12.5 PPG). Tail with 50 sx (59 cu.ft.) of Cl "B" with 2% CaCl₂ (Yield = 1.18 cu. ft./sk; slurry weight = 15.6 PPG) Total cement volume is 317 cu.ft. (100% excess to circulate cement to surface).

Paul C. Thompson P. F.