•		To an analysis of the second s	FOEIVED		
Form 3160-3 (August 1999) UNITED S	TATES .	011727374	" 26 FM 12 :	FORM APPRO OMB No. 1004 Expires November	1-0136
DEPARTMENT OF BUREAU OF LAND	<i>r</i>	2804	iamineton, N	5. Lease Serial No. 078 SF-0789	
APPLICATION FOR PERMIT	m Rio	OR REENTER		6. If Indian, Allottee or Tri	
1a. Type of Work: X DRILL	REENTER	31.0		7. If Unit or CA Agreemen	t, Name and No.
b. Type of Well: Oil Well Gas Well Oth	ner S	Zn 2 C Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	Multiple Zone	8. Lease Name and Well N Bert #	ここうつシスト
2. Name of Operator Calpine Natural	Gas Campa			9. API Well No. 30045	- 32021
3A. Address		e No. (include area co	de)	10. Field and Pool, or Expl	
c/o Walsh Engineering, 7415 E. Main, Farmington, NM 8	. 1	505.327.48	•	Basin Ft Coal/Fulc	,
4. Location of Well (Report location clearly and in accordance				11. Sec., T., R., M., or Blk,	and Survey or Area
At surface 930' FSL and 815' FWL					
At proposed prod. Zone				//\ Section 29, T30	
4. Distance in miles and direction from nearest town or post of		NIM		12. County or Parish	13. State
1 mile northwest of 15. Distance from proposed*		of Acres in lease	17. Spacing Unit de	San Juan	NM
location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)	10. 140.	320+		s SW/4 PC / 320 acres	· WI2 ETC
	19 Pror	oosed Depth	20. BLM/BIA Bone		WIZFIC
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft		1475' +/-	20. BENDER BOIL	d No. on the	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5472' GL	22. App	roximate date work wi		23. Estimated duration 2 week	<u> </u>
	24	4. Attachments			
The following, completed in accordance with the requirements	of Onshore Oil	and Gas Order No. 1,	shall be attached to th	is form:	
1. Well plat certified by a registered surveyor.		l 4 Bond to co	wer the operations u	nless covered by an existing be	and an file (see
A Drilling Plan.		Item 20 ab	•	micas covered by an existing of	ond on the (see
3. A Surface Use Plan (if the location is on National Forest Sy	etem I ande the		-		
SUPO shall be filed with the appropriate Forest Service Off	-	•		: 4/	
301 0 shall be filed with the appropriate Forest Service of	nec.	6. Such other authorized	-	ion and/or plans as may be req	uired by the
25. Signatura		Name (Printed/Typed)		Date	
Title		Pau	I C. Thompson,	, P.E. !	11/25/2003
		Agent			
Approved by (Signature) David J. Mankiewicz	į	Name (Printed/Typed)	Date	MAR - 5 2004
Title		Office			
Application approval does not warrant or certify that the application	cant holds legal	or equitable title to the	ose rights in the subje	ct lease which would entitle th	e applicant to conduct
operations thereon.					
Conditions of approval, if any, are attached.					
Title 18 U.S.C. Section 1001and Title 43 U.S.C. Section 1212 States any false, fictitious or fraudulent statements or represen				make to any department or ago	ency of the United
*(Instructions on reverse)					
		This actio	n is subject to techni	cal and	
DRILLIMO CRESATION SUBJECT TO COMPLIANCE SUBJECT TO COMPLIANCE "GENERAL REQUIREMENTS	TITTT - RE MATHATTACHT ST.	procedura	al review pursuant to al pursuant to 43 CFI	43 OFR 3165.3	·

Distract I PO Box 1980, Hobbs, NM 88241-1980 District'II PO Drawer DD, Artesia, NM 88211-0719

District III 1000 Rio Brazos Rd., Aztec, NM 87410

District IV PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

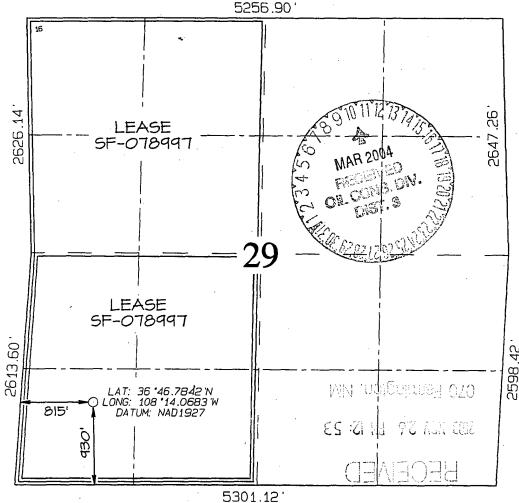
Form C-102 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

	'API Number Pool Code		'Pool Name								
	30-045-320	26	71629 /	77200	BASIN	FRUITLAND	COAL/FULCHER	KUTZ	PICTURED	CLIFFS	
	'Property Code	*Property Name								*Well Number	
	33580	BERT							1		
;	'OGRID No.	*Operator Name							°E leva	tion	
	194807	194807 CALPINE NATURAL GAS L.P.							547	2:	
	¹⁰ Surface Location										

UL or lot no.	Section	Township	Pange	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	29	30N	13W	L	930	SOUTH	815	WEST	SAN JUAN
		11 🖯	ottom	Hole L	ocation I	f Different	From Surf	ace	
UL on lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
12 Dedicated Acres	320.0	Acres	(W/2)	- FC	13 Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.		
		Acres	(SW/4)	- PC	Y				



NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL
INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN

_	APPROVED BY THE UIVISION
	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief
	Signature PALL C. THOMPSON
	Printed Name AGENT
	Title
	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. Survey Date: OCTOBER 31, 2003 Signature and Seal of Professional Surveyor
7.000	THE SECOND C. EDWARDS SECOND C. EDWARDS MEXICO 15269 BENESSION APPESSION APPESSION

Certificate Number

CALPINE NATURAL GAS CORP. OPERATIONS PLAN Bert #1

I. Location: 930' FSL & 815' FWL

Date: November 25, 2003

Sec 29 T30N R13W San Juan County, NM

Field: Basin Fruitland Coal/ Fulcher Kutz Pictured Cliffs

Surface: City of Farmington Minerals: Federal SF 078997

Elev: GL 5472'

II. Geology: Surface formation Ojo Alamo

Α.	Formation Tops	Depths
	Kirtland	22'
	Fruitland	934 ′
	Pictured Cliffs	1295'
	Total Depth	1475'

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

Water and gas - 934 and 1295'.

- B. Logging Program: Induction/GR and density logs at TD.
- C. No over pressured zones are expected in this well. No H_2S zones will be penetrated in this well. Max. BHP = 600 psiq.

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 nipple-up and after any use under pressure to 1000 psi.

Bert #1 Operations Plan Pg #2

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 7" 4-1/2"	Wt. & Grade
8-3/4"	120'		20# K-55
6-1/4"	1475'		10.5# K-55
/ -	14/3	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 C1 "B" with 2% CaCl₂ (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 120 sx (247 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 306 cu.ft. (100% excess to circulate cement to surface).

Paul C. Thompson, P.E.