		v Fridan. — ⊕ DY	TOF	NED			
Form 3160-3 (August 1999) / UNITED STA		2002 0	CT -I		омв	M APPROVI No. 1004-01 Jovember 30	136
DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT 070 FARMINGTON, N					5. Lease Serial No	M 20314	
APPLICATION FOR PERMIT TO DRILL OR REENTER						ee or Tribe l	Vame
la. Type of Work: X DRILL RE	ENTER				7. If Unit or CA A	$\vec{\lambda}$	ame and No.
b. Type of Well: Oil Well Gas Well Other Single Zone Multiple Zone 2. Name of Operator					8. Lease Name and Roc 9. API Well No.	d Well No. Sevelt #	2
Calpine Natural Gas	Company	/			30 045 3/222		
3A. Address	3b. Phone No	o. (include area co	ode)		10. Field and Pool,	or Explorate	ory
c/o Walsh Engineering, 7415 E. Main, Farmington, NM 87402		505.327.4	892			ruitland	-
4. Location of Well (Report location clearly and in accordance with Assurface 1890' FSI and 825' FWI	any State req	uirements.*)			11. Sec., T., R., M., or Blk, and Survey or Area		
At proposed prod. Zone					∠ Section 22, T30N, R14W		
14. Distance in miles and direction from nearest town or post office					12. County or Paris		13. State
4 miles west of Farm 15 Distance from proposed*					San Jua	<u>n</u>	MM
location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. of A	480	17. Spac	cing Unit dec	dicated to this well W/2 320 acre		
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 2500'	19. Proposed Depth 20. BLM/BIA Bond 1365'						
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approxi	mate date work wi	ll start*		23. Estimated durat	tion	
5590' GL	<u> </u>	October 2	October 2002 2 weeks				
	24. A	ttachments			<u> </u>		
The following, completed in accordance with the requirements of On	shore Oil and	Gas Order No. 1, s	shall be att	tached to this	s form:		
Well plat certified by a registered surveyor. A Drilling Plan. A Surface Lie Plan (if the leasting in a National Plan).		Item 20 abo	ove).		less covered by an exi	isting bond o	on file (see
 3. A Surface Use Plan (if the location is on National Forest System Lands, th SUPO shall be filed with the appropriate Forest Service Office. 5. Operator certification. 6. Such other site specific information authorized office. 					n and/or plans as may	be required	by the
25. Signature	Nan	ne (Printed/Typed)				Date	
Tan C. Thomps		Paul	C. Tho	mpson, l	P.E.	9/	/23/02
Title		Agent					
Approved by (Signature) David J. Mankiewicz		ne (Printed/Typed)	- ,			Date	-1 2002
Title	Offic	ee				<u> </u>	
Application approval does not warrant or certify that the applicant ho operations thereon. Conditions of approval, if any, are attached.	elds legal or eq	uitable title to tho	se rights in	n the subject	lease which would en	title the app	licant to conduct
Title 18 U.S.C. Section 1001and Title 43 U.S.C. Section 1212, make States any false, fictitious or fraudulent statements or representations	it a crime for as to any matt	any person knowir er within its jurisd	igly and w	rillfully to m	ake to any department	t or agency o	of the United
*(!nstructions on reverse)							

NMOCO

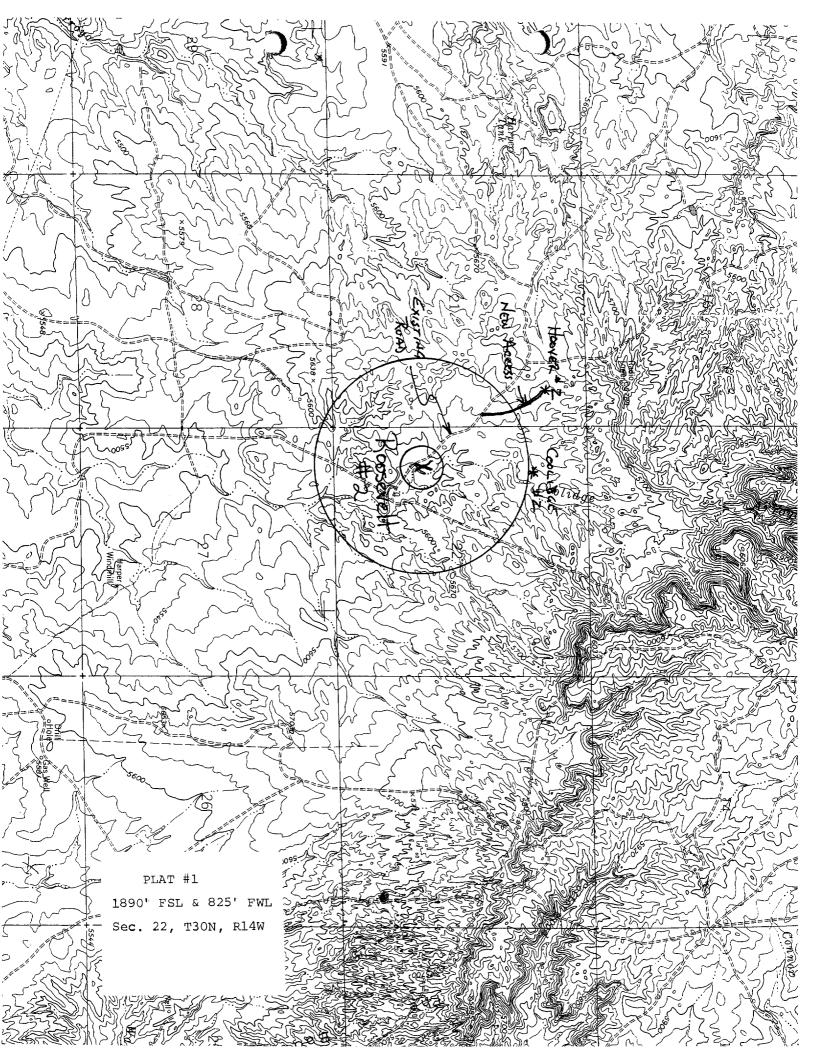
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State of New Mexico
Energy. Minerals & Mining Resources Department
OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe. NM 87505

Form C - 102

MENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT									
Ary Number Pool Name									
30-0		<u>-312</u>	24 7	1629		BASIN	FRUITLAN	D COAL	
Property (Coder				Property No	The			Well Number
ROOSEVELT						2			
OGRD No. Operator Name 194807						Elevation			
CALPINE NATURAL GAS 5590'							5590'		
UL or Lat	Sec.	Tup.	I Dan I	Lot ldn		Location	TP	T	
1	22	•	Rge.	LOT ION,		North/South	1	East/West	County
L	22	30 N.	14 W.		1890	SOUTH	825'	WEST	SAN JUAN
UL or Let	Sec.	Тир	Rge.	Let kin.	Hole Location	North/South		le	
			1,34-	COI NIL	Latel ILOM>	חושסט עודוטאוו	Leet (Low>	East/West	County
Dedication		nt?						<u> </u>	
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			OR A NON	I-STANDARD	UNIT HAS BE	EN APPROVE	D BY THE DM	skon Skon	CONSOCIONIED
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									EDATOR CERTICATION
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								conte	reby certify that the information and herein is true and complete
						·		to the	19 Dest of my knowledge and
								Dene	1•
								Signo	nture
								- la	ul E. Thomps -
									ed Name
			•					Title	Paul C. Thompson
					ا المستريد المستريد إينا المستريد				_Agent
		İ						Date	
					A	est de la companya de			9/24/02
		- 		- 22 — <i>-</i>					JRVEYOR CERTIFICATION
								l her	reby certify that the well location his plat was platted from field
		İ						note	s of actual surveys made by me
825		NAD	27					or u	s of actual surveys made by me nder my supervision, and that the is true and correct to the best
	9	36.4	7`5l68` N				"	of m	ry belief.
		108181	07.38° W					Date	of Survey
									27 MARCH 62
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	<u> </u>	L							LAND



CALPINE NATURAL GAS CORP. OPERATIONS PLAN Roosevelt #2

I. Location: 1890' FSL & 825' FWL Date: September 23, 2002

Sec 22 T30N R14W San Juan County, NM

Field: Basin Fruitland Coal Elev: GL 5590'

Surface: Bureau of Land Management

Minerals: Federal NM 20314

II. Geology: Surface formation _ Ojo Alamo

Α.	Formation Tops	Depths
	Fruitland	765 ′
	Pictured Cliffs	1215'
	Total Depth	1365'

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

Water and gas - 765' and 1215'.

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

Roosevelt #2 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	Wt. & Grade
8-3/4"	120'	7"	20# K-55
6-1/4"	1365'	4-1/2"	10.5# K-55
, -	2000	4 1/Z	10.0# V-00

- 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% 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 110 sx (227 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 286 cu.ft. (100% excess to circulate cement to surface).

Paul C. Thompson, P.E.

Paul C. Thomas -