

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED

Budget Bureau No. 1004-0135

Expires: March 31, 1993 - 4 AM 8:20

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reenter a different reservoir.

Use "APPLICATION FOR PERMIT -" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Gas
☐ Well ☒ Well ☐ Other

2. Name of Operator

Calpine Natural Gas

3. Address and Telephone No.

1200 17th St., Suite 770, Denver, CO 80202

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1750' FNL & 1030' FEL Sec. 23-30N-14W

5. Lease Designation and Serial No.

NM 26357

6. If Indian, Allottee or Tribe Name

070 EAPMINOTON, NM

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Morton #1

9. API Well No.

30-045-25506

10. Field and Pool, or Exploratory Area

Twin Mounds Pictured Cliffs

11. County or Parish, State

San Juan County, New Mexico

12. CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment
☒ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Calpine is proposing recompleting into the Basin Fruitland Coal Gas formation.

The Twin Mounds Pictured Cliffs and Basin Fruitland Coal production will be commingled downhole.

Attached is the proposed procedure to recomplete and commingle the Twin Mounds PC and Basin Fruitland Coal formations.

ATC 1004A2

14. I hereby certify that the foregoing is true and correct

Signed Jim Lovato

Title OPERATIONS MANAGER

Date 10/30/02

(This space for Federal or State office use)

Approved by Jim Lovato

Title

Date NOV 26 2002

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes 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.

*See Instructions on Reverse Side

NMOCD

Recompletion Procedure for
Calpine Natural Gas Company
Morton #1

Location: NE/4 Sec 23 T30N R14W
 San Juan County, NM

Date: October 30, 2002

Field: Twin Mounds PC
 Recomplete in Basin Fruitland Coal Gas
 Surface: BLM
 Minerals: BLM NM-26357

Elev: GL 5825'
 KB 5838'
 PBTD 4-1/2" @ 2256'
 PC Perfs 1532'-1546'

1. Set and fill 2 frac tanks with city water and heat to 80 degrees. Check for anchors. MOL and RU completion rig. Hold safety meeting.
2. NU 2-3/8" relief line. Blow well down and kill with water if necessary.
3. ND tubing head and pull tubing slips. NU BOP. POOH with rods and pump. Should have 1-16' polish rod, 1-2' pony rod, 3-4' pony rods, 1-6' rod, 55 3/4" rods and 1 2"x 1 1/2"x12' RWAC pump on 3 -1" sinker bars.
4. PU 9 joints of tubing and clean out to 1904' KB.
5. POOH with tubing. Should have 57 jts of tubing, 1 seating nipple, 1-4' perforated sub and 1 joint of tail. RIH with tubing and set drillable bridge plug at 1528'. POOH with tubing.

Complete Pictured Cliffs

6. Perforate 4 spf (0.38" holes) from 1510' to 1526'. Total of 64 holes. Depths refer to the open-hole logs.
7. Rig up frac equipment and pressure test surface lines.
8. Fracture with 60,000# of 20/40 Brady sand in a 25#/1000 gal cross-linked gel fluid. Pump rate at 50 BPM and expected treating pressure is 2000 psig. Max treating pressure is 3500 psig. Treat with the following schedule if pressure permits: (would prefer to ramp sand)

Stage	Gel Vol. (Gals.)	Sand Vol. (lbs.)
Pad	7,000	0
1.0 ppg 20/40	3,000	3,000
2.0 ppg 20/40	5,000	10,000
3.0 ppg 20/40	5,000	15,000
4.0 ppg 20/40	5,000	20,000
4.0 ppg 20/40 Resin	3,000	12,000
Flush	997	0
Total	28,997	60,000

9. Close BOPs. RD frac company and install flowline with 1/4" ceramic choke. Flow well back to pit overnight.

10. When well dies, TIH with bailer on 2-3/8" EUE tubing and clean out to bridge plug at 1528. POOH with bailer. TIH with bit and drill out bridge plug and clean out to 1904'. TOH and lay down 9 joints of tubing. Finish POOH with tubing and lay down bit.
11. TIH with 1 tail joint, 1-4' perforated sub, Seating Nipple and 48 joints of 2 3/8" tubing. Land tubing at 1607' KB. RIH with rods and pump. Put well on production. RD and release rig.



Morton #1
Sec 22, Township 30N, Range 14W

Surface Location 1750' FNL & 1030' FEL Sec 23 T30N R14W
Btm Hole Loc. Same as Surface
Field Basin Dakota
County San Juan
State New Mexico
API No. 30-045-25506
Lease No. NM 26357
G.L. Elevation 5825'
K.B. Elevation 5838'

Surface Casing 221' 8-5/8", 24#, in 12 1/4" hole
Cement 124 cu ft Class B w/ 2% CaCl. Circulate to surface

Prod. Casing 6,384' 148 jts. 4 1/2" csg. 11.6 #/ft, J-55 New

Cement 2nd Stage 1715 cu ft
Class B with 2% econofill
Circulated to Surface

Pictured Cliffs SPF Shots
1532-1546 4 56

Top of MV plug @ 2256

DV Tool @ ?

Cement 1st Stage 490 cu ft
50/50 Pox with 2% gel, 10% salt, 6 1/4 # Gilsomite
1/4# celloflake

Dakota SPF Shots
6134-6152 1 18
6158-6162 1 4
6164-6169 1 5
6205-6214 1 9
6240-6248 1 8
6348-6356 2 16

Zone Total

PBTD 6,367'
FLOAT COL. 6,367'
SHOE 6,384'
TD 6,385'

Tubing Configuration

Description	Length
KB	12.0
48 Joints of 2 3/8" 4.7 #/ft. J-55 EUE EUE	1557.0
1 Seating Nipple	1.1
1 4' Perforated sub	4.2
1 Tail joints of 2 3/8" 4.7 #/ft. J-55 EUE EUE	32.5
Tubing Tail @	1606.8

Rods and Pump Configuration

Rods	Pump
55 3/4" rods	2" x 1 1/2" x 12' RWAC
1 6" pony rod	3 1" Sinker Bars
3 4" pony rods	
1 2" pony rod	
1 16" polishd rod	

District I:

1625 N. French Dr., Hobbs, NM 88240

District II:

1301 W. Grand Avenue, Artesia, NM 88210

District III:

1000 Rio Brazos Rd., Aztec, NM 87410

District IV:

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102

Revised August 15, 2000

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-25506		² Pool Code 71629		³ Pool Name BASIN FRUITLAND COAL	
⁴ Property Code 030454		⁵ Property Name MORTON			⁶ Well Number #1
⁷ OGRID No. 214274		⁸ Operator Name CALPINE NATURAL GAS COMPANY, L.P.			⁹ Elevation 5838'

¹⁰ Surface Location

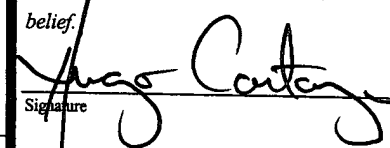
UL or lot no. H	Section 23	Township 30N	Range 14W	Lot Idn	Feet from the 1750'	North/South line FNL	Feet from the 1030'	East/West line FEL	County San Juan
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16				¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Signature Hugo Cartaya Printed Name Production Manager Title 11/1/02 Date
16				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. Date of Survey Signature and Seal of Professional Surveyor: Certificate Number

NMOCE