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FORM 3160-5  
(June 1990)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

070 Farmington, NM

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

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 ☐ Well Gas ☒ Well ☐ Other

2. Name of Operator

Calpine Natural Gas

3. Address and Telephone No.

1200 17th Street, Suite 770, Denver, CO 80202

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

1650' FSL & 1695' FWL  
Sec. 23-T30N-R14W

5. Lease Designation and Serial No.

NM 26357

6. If Indian, Allottee or Tribe Name

N/A

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Morton #4

9. API Well No.

30- 045-31214

10. Field and Pool, or Exploratory Area

Basin Fruitland Coal Gas

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 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.)\*

The well was permitted as a Basin Fruitland Coal well. As a result of changes in the spacing orders, Calpine proposes to complete the well in the Harper Hill-PC and the Basin Fruitland Coal.

The gas will be commingled downhole.

Attached is the proposed procedure to ~~abandon the existing zone and~~ recomplete into the Harper Hill - PC and Basin Fruitland Coal formations.

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

Signed Hugo Cartaya

Title Production Manager

Date 11/18/02

(This space for Federal or State office use)

Approved by /s/ Jim Lovato  
Conditions of approval, if any:

Title \_\_\_\_\_

Date JAN - 9 2003

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

## 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 &amp; 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

<sup>1</sup> API Number <b>30-045-31214</b>	<sup>2</sup> Pool Code <b>71629</b>	<sup>3</sup> Pool Name <b>BASIN FRUITLAND COAL</b>
<sup>4</sup> Property Code <b>28111</b>	<sup>5</sup> Property Name <b>MORTON</b>	<sup>6</sup> Well Number <b>#4</b>
<sup>7</sup> OGRID No. <b>214274</b>	<sup>8</sup> Operator Name <b>CALPINE NATURAL GAS COMPANY, L.P.</b>	<sup>9</sup> Elevation <b>5710'</b>

<sup>10</sup> Surface Location

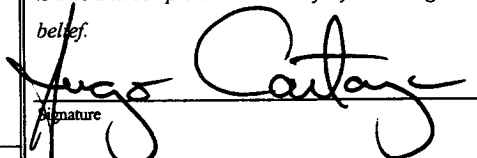
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>K</b>	<b>23</b>	<b>30N</b>	<b>14W</b>		<b>1650'</b>	<b>South</b>	<b>1695'</b>	<b>West</b>	<b>San Juan</b>

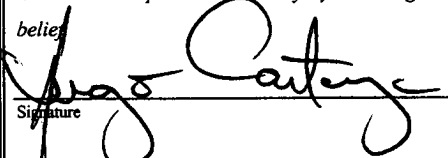
<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

<sup>12</sup> Dedicated Acres <b>320</b>	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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

<sup>16</sup> <div style="border: 2px solid black; width: 100%; height: 100%;"></div>	<sup>17</sup> OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i>  Signature Hugo Cartaya Printed Name Production Manager Title 11/19/02 Date			
	<sup>18</sup> SURVEYOR CERTIFICATION <i>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.</i>			
	Date of Survey Signature and Seal of Professional Surveyor:			
	Certificate Number			

16				<b>17 OPERATOR CERTIFICATION</b> <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i>  Signature Hugo Cartaya Printed Name Production Manager Title 11/19/02 Date
				<b>18 SURVEYOR CERTIFICATION</b> <i>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.</i> Date of Survey Signature and Seal of Professional Surveyor:  Certificate Number

**Recompletion Procedure for**  
**Calpine Natural Gas Company**  
**Morton #4**

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

Date: November 18, 2002

Field: Basin Fruitland Coal  
Recomplete in Harper Hills PC and Fruitland Coal  
Surface: BLM  
Minerals: BLM NM-26357

Elev: GL 5710'  
KB 5715'  
4-1/2" @ 1519'  
FC @ 1501' KB

**Complete Pictured Cliffs**

1. Set and fill 2 frac tanks with city water and heat to 80 degrees. Check for anchors.
2. Set 5000# frac valve directly on 4 1/2" casing. Pressure test casing to 3800#.
3. Rig up Wireline truck and run GR/CCL from TD' to 1000'. Perforate 4 spf (0.38" holes) from 1357' to 1364'. Total of 28 holes. Depths refer to the open-hole logs.
4. Rig up frac equipment and pressure test surface lines.
5. Fracture with 50,000# 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	5,000
3.0 ppg 20/40	5,000	10,000
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	50,000

6. Close BOPs. RD frac company and install flow line with 1/4" ceramic choke. Flow well back to pit overnight.
7. When well dies, RU completion rig. Hold safety meeting. PU and RIH with sand bailer on 2-3/8" EUE tubing and clean out to PBTD. TOH and lay down bailer and tubing. Release completion rig.

**Complete Fruitland Coal**

8. Rig up Wireline truck and run drillable bridge plug. Set at 1355'. Perforate 4 spf (0.38" holes) from 1337'-1344' and 1347'-1352'. Total of 48 holes. Depths refer to the open-hole logs.
9. Rig up frac equipment and pressure test surface lines.

10. Fracture with 50,000# 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	5,000
3.0 ppg 20/40	5,000	10,000
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	50,000

11. Close BOPs. RD frac company and install flow line with 1/4" ceramic choke. Flow well back to pit overnight.
12. When well dies, RU completion rig. Hold safety meeting. PU and RIH with sand bailer on 2-3/8" EUE tubing and clean out to RBP. TOH and lay down bailer.
13. TIH and drill out bridge plug. Clean out to PBTD.
14. TIH with tail joint, 4' perforated sub, and seating nipple, on 2-3/8", 4.7#, J-55, EUE 8rd tubing and set the seating nipple below the deepest perforation. ND BOP and NU tubing head.
15. Run a 2" X 1-1/2" X 12' RWAC pump on 3/4" rods. Space out the pump and hang off the rods. Start the pump jack and check for pump action.
16. Rig down and release rig. First deliver well.