

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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 Gas  
☐ Well ☒ Well ☐ Other

2. Name of Operator

Calpine Natural Gas Company, L.P.

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)

1650' FSL & 1695' FWL Sec. 23-30N-14W

5. Lease Designation and Serial No.  
NM 26357

6. If Indian, Allottee or Tribe Name

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

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 to complete the subject well into the Basin Fruitland Coal Gas and Harper Hill-FS/PC formations

The gas will be commingled downhole.

Attached is the proposed procedure to complete into the Harper Hill-FS/PC and Basin Fruitland Coal Gas formations.

RECEIVED  
2003 JUN 23 AM 11:20  
070 Farmington, NM

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

Signed

Title OPERATIONS MANAGER

Date 01/17/03

(This space for Federal or State office use)

Approved by

Title

Date

FEB - 4 2003

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

NMOC

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

<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	<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>

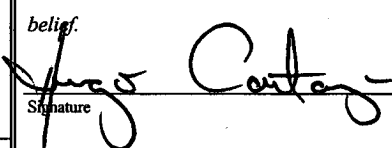
<sup>10</sup> Surface Location

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

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>				<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 1/17/03 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

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
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Revised August 15, 2000  
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Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-045-31214	<sup>2</sup> Pool Code 78160	<sup>3</sup> Pool Name HARPER HILLS-FS/PC
<sup>4</sup> Property Code	<sup>5</sup> Property Name MORTON	<sup>6</sup> Well Number #4
<sup>7</sup> OGRID No. 214274	<sup>8</sup> Operator Name CALPINE NATURAL GAS COMPANY, L.P.	<sup>9</sup> Elevation 5710'

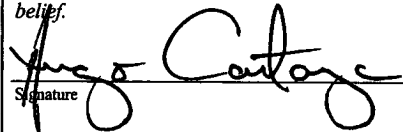
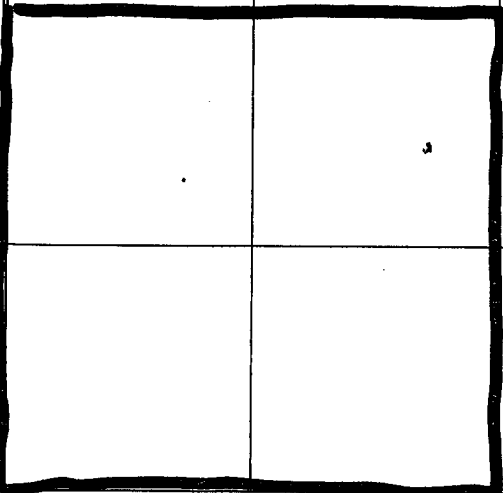
<sup>10</sup> Surface Location

UL or lot no. K	Section 23	Township 30N	Range 14W	Lot Idn	Feet from the 1650'	North/South line SOUTH	Feet from the 1695'	East/West line WEST	County San Juan
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<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 160	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.						

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

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				<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

Completion Procedure for  
Calpine Natural Gas Company  
Morton #4

Location: NESW Sec 23 T30N R14W  
San Juan County, NM

Date: January 17, 2003

Field: Harper Hill and Basin Fruitland Coal  
Complete in PC and 2 Fruitland Coals  
Surface: BLM  
Minerals: BLM NM-26357

Elev: GL 5710'  
KB 5715'  
PBSD 4-1/2" @ 1496'

1. Set and fill 4 frac tanks with city water and heat to 80 degrees. Check anchors. MOL and RU completion rig. Hold safety meeting.
2. NU 2-3/8" relief line. RU wireline. Check PBSD.
3. Perforate 2 SPF (0.38" holes) from 1370' to 1372'. Total of 4 holes. Perforate 2 SPF (0.38" holes) from 1346' to 1352' and 1337' to 1344'. Total of 26 holes. Depths refer to the open-hole logs.
4. Rig up frac equipment and pressure test surface lines. Fracture with 75,000# of 20/40 Brady sand in a 25#/1000 gal cross-linked gel fluid.
5. RU wireline. RIH with perforating gun and flow through composite bridge plug run in tandem.
6. Set flow through composite bridge plug at 1280'. Perforate 4 SPF (0.38" holes) from 1236' to 1246'. Total of 40 holes. Depths refer to the open-hole logs.
7. Fracture with 35,000# of 20/40 Brady sand in a 25#/1000 gal cross-linked gel fluid.
8. Close BOPs. RD frac company and install flowline with 1/4" ceramic choke. Flow well back to pit overnight.
9. When well dies, TIH with bit on 2-3/8" EUE tubing and clean out and drill out bridge plug at 1225 with foam unit. Clean out to PBSD. POOH with tubing and lay down bit.
10. TIH with 1 tail joint, 1-4' perforated sub, Seating Nipple and 2 3/8" tubing. Land tubing. RIH with rods and pump. Put well on production. RD and release rig.



**Morton #4**      Sec  
23, Township 30N, Range 14W

1650' FSL & 1695' FWL    Sec 23 T30N R14W  
*Same as Surface*

Surface Location  
Btm Hole Loc.  
Field  
County  
State  
API No.  
Lease No.  
G.L. Elevation

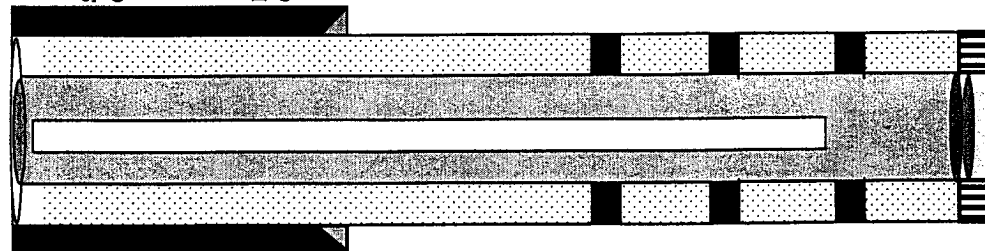
San Juan  
New Mexico  
30-045-31214  
NM 26357  
5710'

7", 20#, in 8 3/4" hole  
Class B w/ 2% CaCl. Circulate to surface

37 Jts 4-1/2" 10.5# in 6 1/4" hole  
Class B with 2% merasilicate  
Class B

Surface Casing  
Cement  
130'  
59 cu ft

Prod. Casing  
Cement  
0-1519  
268 cuft  
59 cuft



SPF	Size	Shots
1236-1246	.38"	40
SPF	Size	Shots
1337-1352	.38"	26
SPF	Size	Shots
1370-1372	.38"	8