

Submit 3 Copies To Appropriate District Office

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 and Natural Resources

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-103  
Revised March 25, 1999

WELL API NO.  
30-045-31214

5. Indicate Type of Lease

STATE ☐ FEE ☐

6. State Oil & Gas Lease No.  
NM 26357

7. Lease Name or Unit Agreement Name:

MORTON

SUNDRY NOTICES AND REPORTS ON WELLS  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:

Oil Well ☐ Gas Well ☒ Other

2. Name of Operator  
Calpine Natural Gas Company, L.P.

8. Well No.  
#4

3. Address of Operator  
1200 17th Street, STE 770, Denver, CO 80202

9. Pool name or Wildcat

4. Well Location

Unit Letter K : 1650 feet from the SOUTH line and 1695 feet from the West line

Section 23 Township 30N Range 14W NMPM County San Juan

10. Elevation (Show whether DR, RKB, RT, GR, etc.)  
5710 GR

11. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐ CHANGE PLANS ☐

PULL OR ALTER CASING ☐ MULTIPLE COMPLETION ☐

OTHER: Complete and downhole commingle ☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐

CASING TEST AND CEMENT JOB ☐

OTHER: ☐

12. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Calpine is proposing to complete into the Harper Hill-FS/PC and Basin Fruitland Coal Gas formation. The formations will be commingled down hole.

Division Order : 11363

Names of Commingled Pools : Basin Fruitland Coal Gas (71629) and Harper Hill-FS/PC(78160)

Perforated Intervals:Harper Hill 1370-1372 (proposed) Basin Fruitland Coal 1337-1352 and 1236-1346 (proposed).

Allocation Method : We will submit historical averages of of production from Pictured Cliffs wells from surrounding sections and compare that with the historical average production of commingled Pictured Cliffs and Fruitland Coal production and propose an allocation formula based on the average differences.

Commingling of the two formations will not reduce the total value of the total remaining production.

Calpine has sent a sundry notice to the BLM of the proposed action.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Hugo Cartaya TITLE Production Manager

DATE 1/17/03

Type or print name Hugo Cartaya

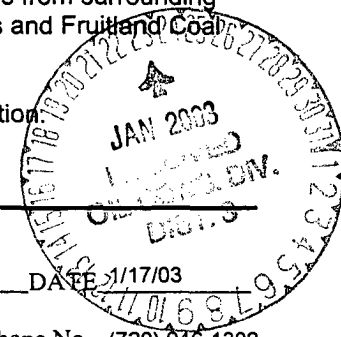
Telephone No. (720) 946-1302

(This space for State use)

APPROVED BY [Signature] TITLE DEPUTY OIL & GAS, DIRECTOR, DIST.

Conditions of approval, if any:

Already approved by Santa Fe OHG 3084



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State of New Mexico  
Energy, Minerals & Natural Resources Department  
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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>

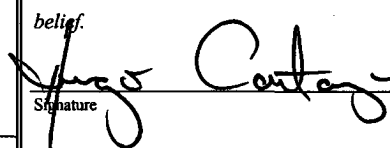
<sup>10</sup> Surface Location

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

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number <b>30-045-31214</b>	<sup>2</sup> Pool Code <b>78160</b>	<sup>3</sup> Pool Name <b>HARPER HILLS-FS/PC</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>

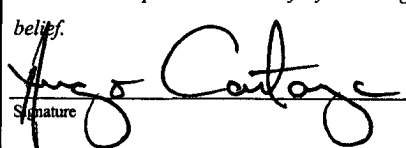
<sup>10</sup> Surface Location

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>160</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

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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**

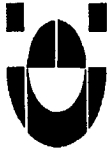
Location: NESW Sec 23 T30N R14W  
San Juan County, NM

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*

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

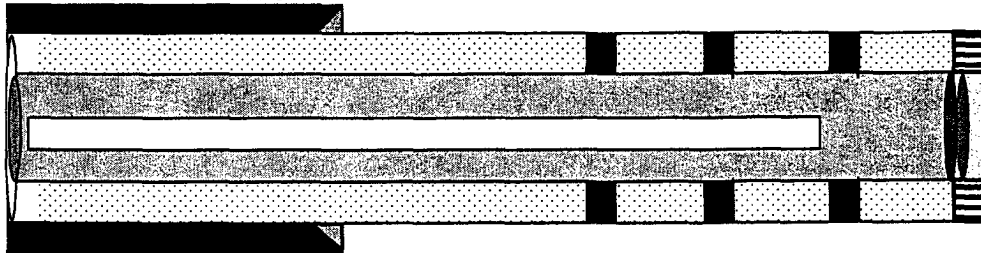
Surface Location  
Btm Hole Loc.  
Field  
County  
State  
API No.  
Lease No.  
G.L. Elevation

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% merasillate  
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