

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

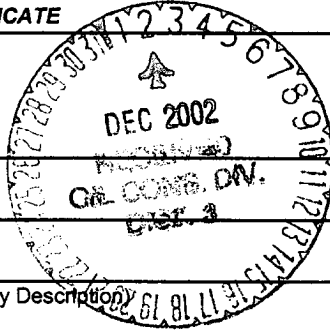
Calpine Natural Gas

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)

1810' FSL & 1100' FEL 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 #2

9. API Well No.

30-045-25766

10. Field and Pool, or Exploratory Area

Dakota Basin

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

- | | |
|--|--|
| <input type="checkbox"/> Abandonment | <input type="checkbox"/> Change of Plans |
| <input checked="" type="checkbox"/> Recompletion | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Plugging Back | <input type="checkbox"/> Non-Routine Fracturing |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Altering Casing | <input type="checkbox"/> Conversion to Injection |
| <input type="checkbox"/> Other _____ | <input type="checkbox"/> 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 abandon the existing Dakota formation in the subject well and recomplete into the Twin Mounds Picture Cliff formation 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 Twin Mounds PC and Basin Fruitland Coal formations.

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

Signed [Signature]

Title OPERATIONS MANAGER

Date 10/29/02

(This space for Federal or State office use)

Approved by /s/ 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 #2**

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

Date: October 25, 2002

Field: Basin Dakota	Elev: GL 5703'
Recomplete in Twin Mounds PC and Basin Fruitland Coal	KB 5716'
Surface: BLM	4-1/2" @ 6241'
Minerals: BLM NM-26357	DV Tool @ 4278'
	DK Perfs 5984' - 6125'

Plug Dakota Procedure:

1. Dig workover pit. Set and fill 2 frac tanks with city water and heat to 80 degrees. Check for anchors. Set pump jack. 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. Pick up additional joints (198' - 6 jts) of 1-1/2" EUE tubing and TIH to approximately 6148' KB. The 1-1/2" tubing is currently landed at 5950' KB.
4. **Pump Plug #1 - Dakota.** Spot 50 sx (59 cu.ft.) of Cl "B" neat cement from 6148' to approximately 5826'. Cement is designed to cover from the base of the Dakota perfs to 100' above the top Dakota perf with 100% excess.
5. TOH (standing back) 1-1/2" EUE tubing to approximately 5300' KB and WOC 4 hrs. TIH and verify cement top.
6. Load hole with water. TOH (laying down) to approximately 5220' KB.
7. **Pump Plug #2 - Gallup** Spot 15 sx (18 cu.ft.) of Cl "B" neat cement from approximately 5221' KB to approximately 5071'. Cement is designed to cover 100' above and below the Gallup top.
8. TOH (laying down) to approximately 3892' KB.
9. **Pump Plug #3 - Mesa Verde.** Spot 100 sx (118 cu.ft.) of Cl "B" neat cement from approximately 3892' KB to approximately 2525'. Cement is designed to cover 100' below the Point Lookout top and 100' above the Cliff House top.
10. TOH (laying down) the 1-1/2" tubing to approximately 2000'. Load hole with fresh water and pressure test the casing to 1500 psi. Finish TOH. Should have a total of 190 jts of 1-1/2".

Complete Pictured Cliffs

11. Rig up Wireline truck and run GR/CCL from 1700' to 1000'. Perforate 4 spf (0.38" holes) from 1405' to 1415'. Total of 40 holes. Depths refer to the open-hole logs.
12. Rig up frac equipment and pressure test surface lines.

13. 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	60,000

14. Close BOPs. RD frac company and install flow line with 1/4" ceramic choke. Flow well back to pit overnight.
15. When well dies, TIH with sand bailer on 2-3/8" EUE tubing and clean out to PBTD or 300' below the lowest perf. TOH and lay down bailer.

Complete Fruitland Coal

16. Rig up Wireline truck and run drillable bridge plug. Set at 1402'. Perforate 4 spf (0.38" holes) from 1380'-1390' and 1393'-1398'. Total of 60 holes. Depths refer to the open-hole logs.
17. Rig up frac equipment and pressure test surface lines.
18. 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
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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

19. Close BOPs. RD frac company and install flow line with 1/4" ceramic choke. Flow well back to pit overnight.
20. When well dies, TIH with sand bailer on 2-3/8" EUE tubing and clean out to RBP. TOH and lay down bailer.
21. TIH and drill out bridge plug.

22. 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.
23. 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.
24. Rig down and release rig. First deliver well.



Morton #2 Sec
23, Township 30N, Range 14W

Surface Location 1810' FSL & 1100' FEL Sec 23 T30N R14W
Btm Hole Loc. Same as Surface
Field Basin Dakota
County San Juan
State New Mexico
API No. 30-045-25766
Lease No. NM 26357
G.L. Elevation 5703'
K.B. Elevation 5716'

Surface Casing 216' 8-5/8", 24#, in 12 1/4" hole
Cement 141 cu ft Class B w/ 2% CaCl. Circulate to surface

Prod. Casing 0-6241' 154 jts 4-1/2" 11.6# in 7 7/8" hole

Cement 2nd Stage 1592 cu ft
Class B with 2% econofil
Circulate 23 sx to surface

Tubing Configuration

Description	Length
KB	11.6
1 2 3/8" Sub	4.07
1 2 3/8" x 1 1/2" X-over	0.75
184 Joints of 1 1/2" 2.9 #/ft. J-55 EUE plastic coated tubing	5934.38
Tubing Tail @	5950.80

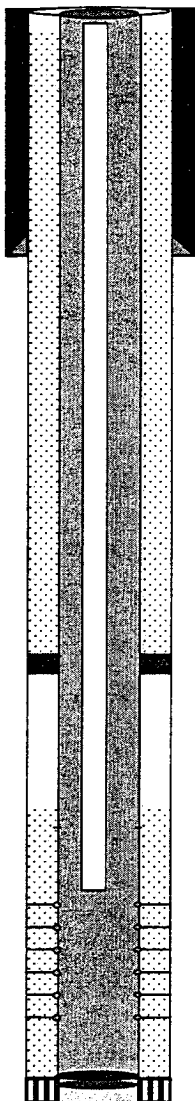
DV Tool @ 4270'

Cement 1st Stage 455 cu ft
50/50 Pox with 2% gel, 10% salt, 6 1/4 # Gilsomite
1/4# celloflake

SPF	Shots
5984-6000 1	16
6008-6024 1	16
6055-6072 1	17
6084-6090 1	6
6118-6125 1	7

Zone Total 62

PBTD 6,182'
FLOAT COL. 6,198'
SHOE 6,240'
TD 6,241'



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 30-045-25766	² Pool Code 71629	³ Pool Name BASIN FRUITLAND COAL
⁴ Property Code 030454	⁵ Property Name MORTON	⁶ Well Number #2
⁷ OGRID No. 214274	⁸ Operator Name CALPINE NATURAL GAS COMPANY, L.P.	⁹ Elevation 5716'

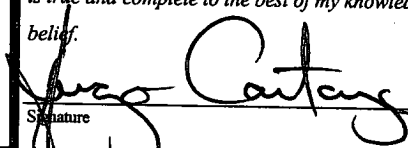
¹⁰ Surface Location

UL or lot no. I	Section 23	Township 30N	Range 14W	Lot Idn	Feet from the 1850'	North/South line FSL	Feet from the 1100'	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
¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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

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 Carriaga Printed Name Production Manager Title 11/1/02 Date
				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

NMOCD

District I

1625 N. French Dr., Hobbs, NM 88240

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Form C-102

Revised August 15, 2000

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-25766		² Pool Code 86620		³ Pool Name TWIN MOUNDS PICTURED CLIFFS	
⁴ Property Code 030454		⁵ Property Name MORTON			⁶ Well Number #2
⁷ OGRID No. 214274		⁸ Operator Name CALPINE NATURAL GAS COMPANY, L.P.			⁹ Elevation 5716'

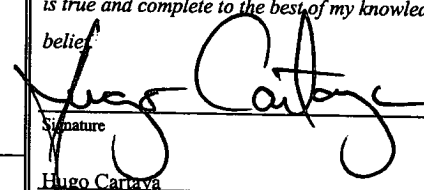
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¹² Dedicated Acres 160	¹³ Joint or Infill	¹⁴ Consolidation Code		¹⁵ Order No.					

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					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	

NMOCD