

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

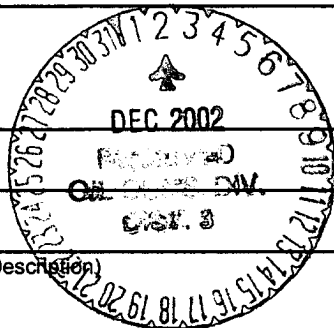
Calpine Natural Gas

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)

950' FNL & 1190' FEL Sec. 22-30N-14W



5. Lease Designation and Serial No.

NM 15272

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Coolidge Com #1

9. API Well No.

30-045-26184

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

- ☐ 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 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.

DGC 1005AZ

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

Signed Jim Lovato

Title OPERATIONS MANAGER

Date 10/29/02

(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

NMOCDD

Recompletion Procedure for
Calpine Natural Gas Company
Coolidge Com #1

Location: NE/4 Sec 22 T30N R14W
San Juan County, NM

Date: October 28, 2002

Field: Basin Dakota
Recomplete in Twin Mounds PC and Basin Fruitland Coal
Surface: BLM
Minerals: BLM NM-15272

Elev: GL 5671'
KB 5681'
4-1/2" @ 6183'
DV Tool @ 4211'
DK Perfs 5912' - 6051'

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 (132' - 4 jts) of 1-1/2" EUE tubing and TIH to approximately 6073' KB. The 1-1/2" tubing is currently landed at 5941' KB.
4. **Pump Plug #1 - Dakota.** Spot 50 sx (59 cu.ft.) of Cl "B" neat cement from 6073' to approximately 5751'. 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 5152' KB.
7. **Pump Plug #2 - Gallup** Spot 15 sx (18 cu.ft.) of Cl "B" neat cement from approximately 5152' KB to approximately 5002'. Cement is designed to cover 100' above and below the Gallup top.
8. TOH (laying down) to approximately 3802' KB.
9. **Pump Plug #3 - Mesa Verde.** Spot 100 sx (118 cu.ft.) of Cl "B" neat cement from approximately 3802' KB to approximately 2425'. 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 188 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 1315' to 1325'. 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 1296'-1308'. Total of 48 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 |
| 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 |

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.



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

Surface Location 950' FNL & 1190' FEL Sec 22 T30N R14W
Btm Hole Loc. *Same as Surface*
Field Basin Dakota
County San Juan
State New Mexico
API No. 30-045-26184
Lease No. NM 15272
G.L. Elevation 5671'
K.B. Elevation 5681'

Surface Casing 198' 9-5/8", 36#, ln 12 1/4" hole
Cement 118 cu ft Class B w/ 2% CaCl. Circulate to surface

Prod. Casing 0-6183' 148 jts. 4 1/2" csg. 11.6 #/ft, J-55 New

Cement 2nd Stage
1339 cu ft Class B with 2% econofill
Circulated to Surface

Tubing Configuration

| Description | Length |
|---|---------|
| KB | 10 |
| 1 2 3/8" x 1 1/2" X-over | 1.5 |
| 183 Joints of 1 1/2" 2.9 #/ft. J-55 EUE plastic coated tubing | 5897.33 |
| 1 Seating Nipple | 0.55 |
| 1 Joints of 1 1/2" used tubing | 32.08 |
| Tubing Tail @ | 5941.46 |

DV Tool @ 4211

Cement 1st Stage
258 cu ft + 221 cu ft 258 cu ft Class B with 2 % econofill plus 221 cu ft 50/50 Pox with 2% gel, 10% salt, 6 1/4 # Gilsonite
1/4# celloflake

| SPF | Shots |
|-----------|-------|
| 5912-5923 | 1 |
| 5932-5938 | 6 |
| 5943-5947 | 4 |
| 5998-6022 | 12 |
| 6030-6051 | 21 |

Zone Total 54

PBTD 6,139'
FLOAT COL. 6,141'
SHOE 6,183'
TD 6,187'

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 2002 NOV 18 PM 12:12

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 NM

| | | |
|--|--|---|
| ¹ API Number 30-045-26184 | ² Pool Code 71629 | ³ Pool Name BASIN FRUITLAND COAL |
| ⁴ Property Code 030437 | ⁵ Property Name COOLIDGE COM | ⁶ Well Number #1 |
| ⁷ OGRID No. 214274 | ⁸ Operator Name CALPINE NATURAL GAS COMPANY, L.P. | ⁹ Elevation 5681' |

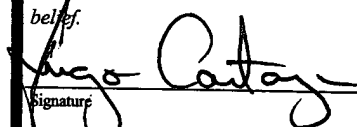
¹⁰ Surface Location

| | | | | | | | | | |
|---------------------------|----------------------|------------------------|---------------------|---------|------------------------------|--------------------------------|-------------------------------|------------------------------|---------------------------|
| UL or lot no. A | Section 22 | Township 30N | Range 14W | Lot Idn | Feet from the 950' | North/South line FNL | Feet from the 1190' | East/West line FEL | County San Juan |
|---------------------------|----------------------|------------------------|---------------------|---------|------------------------------|--------------------------------|-------------------------------|------------------------------|---------------------------|

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 Cartaya Printed Name Production Manager Title 11/14/02 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 | |

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1301 W. Grand Avenue, Artesia, NM 88210

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Revised August 15, 2000

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Fee Lease - 3 Copies

2002 NOV 18 PM 12:12

070 Farmington, NM

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| | | |
|---|---|---|
| ¹ API Number 30-045-26184 | ² Pool Code 86620 | ³ Pool Name TWIN MOUNDS PICTURED CLIFFS |
| ⁴ Property Code 030437 | ⁵ Property Name COOLIDGE COM | ⁶ Well Number #1 |
| ⁷ OGRID No. 214274 | ⁸ Operator Name CALPINE NATURAL GAS COMPANY, L.P. | ⁹ Elevation 5681' |

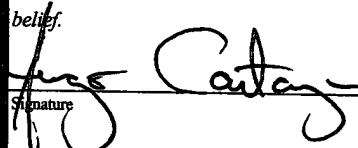
¹⁰ Surface Location

| | | | | | | | | | |
|--------------------|---------------|-----------------|--------------|---------|-----------------------|-------------------------|------------------------|-----------------------|--------------------|
| UL or lot no. A | Section 22 | Township 30N | Range 14W | Lot Idn | Feet from the 950' | North/South line FNL | Feet from the 1190' | East/West line FEL | County San Juan |
|--------------------|---------------|-----------------|--------------|---------|-----------------------|-------------------------|------------------------|-----------------------|--------------------|

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 160 | ¹³ Joint or Infill | ¹⁴ Consolidation Code | ¹⁵ Order No. | | | | | | |

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| 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 11/14/02 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 |