

Submit 3 Copies To Appropriate District Office

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Ave., 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.

30-045-31488 31448

5. Indicate Type of Lease

STATE ☐ FEE ☐

6. State Oil & Gas Lease No.

NM-20314

7. Lease Name or Unit Agreement Name:

Roosevelt SWD #1

8. Well No.

#1

9. Pool name or Wildcat

Blanco Mesa Verde

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.

3. Address of Operator

1200 17th Street, Ste 770, Denver, Colorado 80202

4. Well Location

Unit Letter I : 1830 feet from the South line and 780 feet from the East line

Section 22 Township 30N Range 14W NMPM County San Juan

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

5669 KB; 5657 GL

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 as SWD well ☒

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 recompilation.

Attached please find proposed completion procedure.

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 3/31/03

Type or print name Hugo Cartaya Telephone No. 720-946-1302

(This space for State use)

DEPUTY OIL & GAS INSPECTOR, DIST. 43

APPROVED BY [Signature] TITLE DEPUTY OIL & GAS INSPECTOR, DIST. 43 DATE APR - 3 2003

Conditions of approval, if any:

**Completion Prognosis for
Calpine Natural Gas
Roosevelt SWD #1**

Location: SE/4 Sec 22 T30N R14W
San Juan County, NM
Field: Blanco Mesa Verde
Surface: BLM
Minerals: BLM

Date: March 31, 2003
Elev: 5657' GL
KB: 5669'
PBSD: 3965' KB

Objective: Complete Blanco Mesa Verde as a SWD well.

Procedure:

1. MIRU completion rig. PU and RIH with tubing and bit. Drill cement to PBSD at 3965' KB.
2. Pressure test casing to 2500#.
3. Set and fill eight frac tanks. Fill with City water.
4. Rig up Halliburton and pressure test casing to 2500 psi.
5. Rig up wireline truck. Run CBL and GR/CCL from PBSD to top of cement. Perforate Point Lookout (3735-3830). Depths refer to the open hole logs from Roosevelt #1 offset well. Total of 29 (0.36") holes.
6. Install 6" X 3000# flange to the top of the BOP and swedge back to a 4" 10-02 connection. Rig up Halliburton frac crew. Ball off Point Lookout with 1000 gal of 15% HCl and 50 ball sealers. Maximum pressure is 2500 psi. TIH with junk basket and retrieve balls.
7. Fracture with 50,000# of 20/40 Brady sand in slick water. Injection rate is 60 BPM and expected treating pressure is 2000 psig. Max treating pressure is 2500 psig. Treat with the following schedule if pressure permits:

Stage	Fluid Vol. (BBl.s.)	Sand Vol. (lbs.)
Pad	300	0
0.5 ppg 20/40	238	5,000
1.0 ppg 20/40	238	10,000
1.5 ppg 20/40	238	15,000
2.0 ppg 20/40	238	20,000
Flush	60	0
Total	1,312	50,000

8. Rig up Wireline and set 4-1/2" CIBP at 3500'.
9. Perforate Cliff House with 29 (0.40") holes (2802-2895). Depths refer to the open hole logs from Roosevelt #1 offset well.
10. Ball off with 1000 gal of 15% HCl and 66 ball sealers. Maximum pressure is 2500 psi. TIH with junk basket and retrieve balls.
11. Fracture with 50,000# of 20/40 Brady sand in slick water. Injection rate is 60 BPM and expected treating pressure is 2000 psig. Max treating pressure is 2500 psig. Treat with the following schedule if pressure permits:

Stage	Fluid Vol. (BBl.s.)	Sand Vol. (lbs.)
Pad	300	0
0.5 ppg 20/40	238	5,000
1.0 ppg 20/40	238	10,000
1.5 ppg 20/40	238	15,000
2.0 ppg 20/40	238	20,000
Flush	44	0
Total	1,312	50,000

12. Close blind rams and rig down the frac crew. Flow well back to the pit through a $\frac{1}{4}$ " choke.
13. TIH with 3-7/8" bit on 2-3/8" EUE work string tubing and reverse circulate out sand to CIBP at 3500'KB. Drill CIBP and reverse circulate out sand to PBTB or at least 4000'. TOH and lay down work string and bit.
14. Rig up wireline and perforate injection zones at 4 spf with (0.50") holes.
15. TIH with Weatherford 4-1/2" plastic lined packer with on/off tool and "F" profile nipple on 2-7/8" plastic lined tubing. Circulate annulus with packer fluid and biocide, prior to setting the packer. Set the packer at approximately 2760' or within 50' of the top perf.
16. ND BOP and install master valve. Rig down and release the rig.
17. Set injection facilities. Run MIT test witness by the NMOCD. Start injecting.