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CALPINE NATURAL GAS COMPANY
1200 17TH Street, Suite 770, Denver, Colorado 80202
720-359-9144; FAX 720-359-9140

To: David Catnach From: Hugo Cartaya

Fax: 505-476-3462 Date: 4/27/03

Phone: Pages: 10

Re:

__Urgent __For Review __Please Comment __Please Reply

Comments:

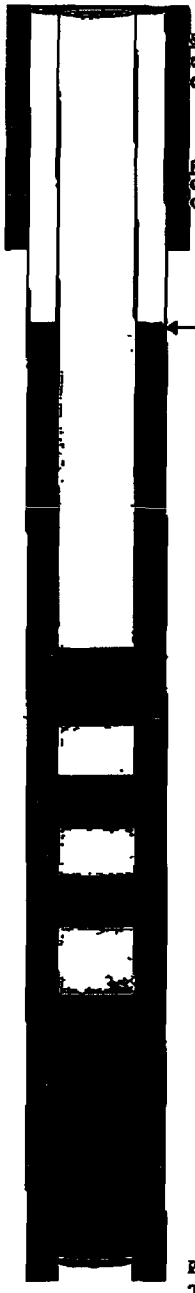
Roosevelt #1 - Scheduled to be P&A'd attached wellbore diagram & approved sundry Coolidge #1 - Scheduled to be recompleted into PC/FC. Attached wellbore diagram & approved sundry.

The wellbore diagrams (which have all the construction info) can be emailed if you can't read the fax.

Thanks

ROOSEVELT #1

Actual



Surface
Casing 269' 8 5/8" J-55
Cement w/ 125 sx. Class B

Production
Casing 0-6159' KB 4-1/2" 11.6#
Cement w/ 875 sx. 700 Class B tailed with 175 sx 50-50 pozmix

Temperature Log Anomaly @ 600'
Possible cement bond top in annulus

Notes
Ran CBL from 2004'-5407'
TOC 2438'
Good Pressure Test from 2586' to 4935'

Cliff House Perforations 2802-2895 *(Proposed)*

Pt. Lookout Perforations 3735-3830 *(Proposed)*

Gallop Cement Plug Tagged Cement at 4936'

Dakota Cement Plug 50 Sx plug

Dakota Perfs 5891-6046

PBTD 6,096'
TD 6,159'

Surface Location	1850'FSL & 790' FEL NESE Sec 22 T30N R14W
Field	Basin Dakota
County	San Juan
State	New Mexico
API No.	30-045-26455
Lease No.	NM-20314
G.L. Elevation	5547'
K.B. Elevation	5561'

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Form 3160-5
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

RECEIVED
2003 FEB 19 PM 1:53

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE – Other instructions on reverse side

5. Lease Serial No.
NM 20314

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.
Roosevelt #1

2. Name of Operator
Calpine Natural Gas Company, c/o Walsh Engineering

9. API Well No.
30-045-26458

3a. Address
7415 E. Main, Farmington, NM, 87402

3b. Phone No. (include area code)
505-327-4892

10. Field and Pool, or Exploratory Area
Basin Dakota

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1850' FSL and 790' FEL, Sec. 22, T30N, R14W

11. County or Parish, State
San Juan

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☒ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days Following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once Testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Calpine Natural Gas proposes to plug the Roosevelt #1 according to the attached procedure. This well will be re-drilled (Roosevelt SWD #1) on the same pad for use as a salt water disposal well.

NOTIFY AZTEC OCD 24 HRS PRIOR TO CASING & CEMENT

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

Name (Printed/Typed)
Paul C. Thompson, P.E.

Title
Agent

Signature
Paul C. Thompson

Date
February 17, 2003

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title
PE

Date
2/25/03

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office
FFO

Title 18 U.S.C. Section 1001, make 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.

(Instructions on reverse)

OPERATOR

Walsh Engineering and Production

P & A Procedure for
Calpine Natural Gas
Roosevelt #1

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

Date: February 17, 2003

Field: Basin Dakota
Surface: BLM
Minerals: BLM NM 20314

Elev: KB 5657'

Procedure:

1. MOL and RU completion rig. Hold safety meeting.

2. Install BOP and NU 2-3/8" relief line from the tubinghead to the pit.

3. Pull the 2-3/8" tubing to approximately 3835'. **Spot Plug #1** (16 sx - 19 cu.ft.) from 3835' to 3635' (100' above and below the Point Lookout top at 3735').

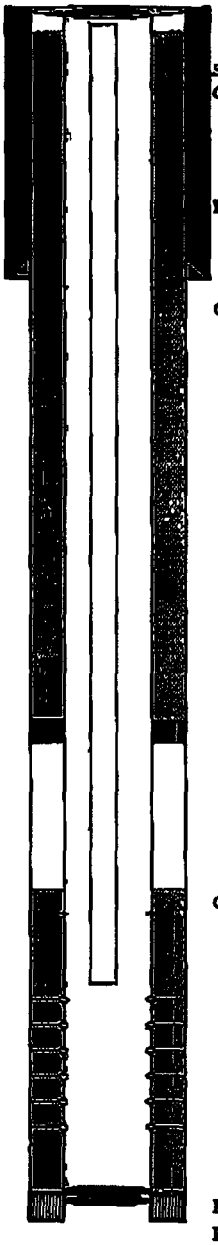
4. TOH to 2902'. **Spot Plug #2** (16 sx - 19 cu.ft.) from 2902' to 2702' (100' above and below the Cliff House top at 2802').

5. TOH to 1368'. **Spot Plug #3** (45 sx - 53 cu.ft.) from 1368' to 776' (100' below the Pictured Cliffs top at 1268' and 100' above the Fruitland top at 876').

5. TOH to 269'. **Spot Plug #4** (21 sx - 25 cu.ft.) from 269' to the surface (50' below the surface casing shoe. TOH with the tubing and fill the 4-1/2" casing with cement. Leave hole standing full of cement. ND BOP.

6. Cut off wellhead and install dryhole marker. Reclaim location as per BLM specifications.

Paul C. Thompson, P.E.



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

Surface Location	950' FNL & 1190' FEL Sec 22 T30N R14W
Bttm 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#, in 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 cuft
Class B with 2% econofill
Circulated to Surface

DV Tool @ 4211

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 tubi	5897.33
1 Seating Nipple	0.55
1 Joints of 1 1/2" used tubing	32.08
Tubing Tail @	5941.46

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

	SPF		Shots
5912-5923	*1*		*11*
5932-5938	*6*		*6*
5943-5947	*4*		*4*
5998-6022	*12*	3.5"	*12*
6030-6051	*21*		*21*
		Zone Total	54

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

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. 30-045-26184
5. Indicate Type of Lease STATE ☐ FEE ☐
6. State Oil & Gas Lease No. NM 15272

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.)

7. Lease Name or Unit Agreement Name: Coolidge Com

1. Type of Well: Oil Well ☐ Gas Well ☑ Other

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

8. Well No. #1

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

9. Pool name or Wildcat

4. Well Location
Unit Letter A : 950 feet from the North line and 1190 feet from the East line
Section 22 Township 30N Range 14W NMPM County San Juan

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

RECEIVED DEC 2002 OIL CONS. DIV. DIST. 3

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	☐	PLUG AND ABANDON	☐	REMEDIAL WORK	☐	ALTERING CASING	☐
TEMPORARILY ABANDON	☐	CHANGE PLANS	☐	COMMENCE DRILLING OPNS.	☐	PLUG AND ABANDONMENT	☐
PULL OR ALTER CASING	☐	MULTIPLE COMPLETION	☐	CASING TEST AND CEMENT JOB	☐		
OTHER: Recomplete and downhole commingle	☑			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.

DHC 1008AZ

Calpine is proposing to abandon the Dakota formation and recomplete into the Harper Hills 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 Hills (98150) FS/PC @ 8160
Perforated Intervals: Harper Hills (98150) 1315-1325 (proposed) Basin Fruitland Coal (71629) 1296-1308 (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 11/27/02

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

(This space for State use)

APPPROVED BY Original Signed by STEVEN N. HAYDEN TITLE DEPUTY OIL & GAS INSPECTOR, DIST. #3 DATE DEC -5 2002

Conditions of approval, if any:

Recompletion Procedure for

Calpine Natural Gas Company
Coolidge Com #1

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

Date: April 21, 2003

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 - Masa 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 and Basin Fruitland Coal

11. Rig up Wireline truck and run GR/CCL from 1700' to 1000'. Perforate 2 SPF (0.38" holes) from 1320' to 1324'. Total of 8 holes. Perforate 2 SPF (0.38" holes) from 1297' to 1310'. Total of 26 holes. Depths refer to the open-hole logs.

12. Rig up frac equipment and pressure test surface lines. Fracture with 75,000# of 20/40 Brady sand in 25#/1000 gal cross-linked gel fluid.

13. RU wireline. RIH with perforating gun and flow through composite bridge plug run in tandem.

14. Set flow through composite bridge plug at 1230. Perforate 4 SPF (0.38" holes) from 1175' to 1184'. Total of 36 holes. Depths refer to the open-hole logs.

15. Fracture with 35,000# of 20/40 Brady sand in a 25#/1000 gal cross-linked gel fluid.

16. Close BOPs. RD frac company and install flowline with 1/4" ceramic choke. Flow well back to pit overnight.

17. When well dies, TIH with bit on 2-3/8" EUE tubing and clean out and drill out bridge plug at 1230' with foam unit. Clean out to PBTD. POOH with tubing and lay down bit.

18. 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.

Supplement to State of New Mexico C-108

V. See attached map

VI. Wells within Area of Review

a) Coolidge #1
b) Operator: Calpine Natural Gas
c) 950' FNL and 1190' FEL Section 22, T30N, R14W
d) Producer of natural gas from Dakota formation (Perfs. 5912-6021)
e) Drilled and completed March of 1985
f) TD: 6187'; PBTD: 6139'
g) Status: Shut-In – Proposed to be recompleted into Fruitland Coal and Pictured Cliffs formations.

VII. Operating Data

a) Proposed Average Injection Rate: 2000 BWPD
b) Maximum Injection Rate: 2400 BWPD
c) Closed System with injection water placed into a series of 400 Bbl. tanks and then filtered into a suction tank and then pumped into the well.
d) Proposed Average Injection Pressure: < 450 psig
e) Maximum Injection Pressure: +/- 560 psig
f) Water Source will be Fruitland Coal and Pictured Cliffs production and is compatible with receiving formation. Offset well in Section 15, T30N, R14W water from Fruitland Coal has TDS= 3970 ppm. Offset well Morton #1 in Section 23-30N-14W from the Pictured Cliffs has TDS=9315 ppm.
g) Will swab in and obtain water sample during Recompletion and analyze water at that time.

VIII. Geologic Data of Injection Zone

a) Formation Name: Point Lookout and Cliff House
b) Description: Sandstone interspersed with shales
c) Thickness: 873' from 3672- 4055' KB (Pt. Lookout) and 2799' - 3672' KB (Cliff House)
d) Point Lookout will be perforated 3735-3830'. Cliff House will be perforated 2802' - 2895'.
e) Aquifers with water above Cliff House will be Fruitland Coal and Pictured Cliffs with TDS +/- 3900 ppm.
f) No aquifers below Cliff House/Point Lookout with water less than 10,000 ppm.

IX. Stimulation Program

a) If required after injection testing it is proposed that the Point Lookout and Cliff House will be fracture stimulated with 50,000# of sand each..

X. No logs will be run since the well is a direct offset of Roosevelt #1 (within 50').

XI. Not applicable.

XII. Calpine Natural Gas has examined available engineering and geologic data and has found no evidence of open faults or hydrologic connections between the proposed disposal zones and any underground sources of drinking water.

XIV. Attached is a copy of the certified mail to the owner of the surface and to each leasehold operator within one half mile of the well location. Attached is a copy of the proof of publication.