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.
30-045-26458

5. Indicate Type of Lease
STATE ☐ FEE ☐

6. State Oil & Gas Lease No.
NM-20314

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:
Roosevelt #1

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

JAN 2002
RECEIVED
OIL CON. DIV.
DIST. 3

2. Name of Operator
Calpine Natural Gas

8. Well No.
#1

3. Address of Operator
1200 17th Street, Ste 770, Denver, Colorado 80202

9. Pool name or Wildcat
~~Basin Dakota~~ SW Mesaverde 96169

4. Well Location

Unit Letter **I** : **1850** feet from the **South** line and **790** feet from the **East** line

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

10. Elevation *(Show whether DR, RKB, RT, GR, etc.)*
5661 KB; 5647 GL

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: **Plug Back and Convert to WI**			☒	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.

Plug Dakota perforations (5891 - 6046) with 50 sx. cement from 6061-5385. Set 15 sk. plug over Gallup (5124 – 4924). Run Cement Bond Log from 4924 to surface. If necessary, perform remedial cement job and cement to surface. Perforate Point Lookout as follows: 3735 – 45, 3762 – 70, 3790 – 3800, 3810 – 30 with 4 shots per foot. Perforate Cliff House as follows: 2802 – 08, 2816 – 32, 2840 – 60, 2870 – 80, 2882 – 95 with 4 shots per foot. Set Halliburton Model G-6 packer at 2752'. Run 2 7/8" tubing and land in packer. Test annulus to 500 psig. Run 6-step injection test down tubing. Install surface equipment and pumps.

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 **11/30/01**

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

(This space for State use)

APPPROVED BY _____ TITLE DEPUTY OIL & GAS INSPECTOR, DIST. #3 DATE JAN 17 2002

Conditions of approval, if any: SWD order to be issued from the Engineering Bureau of NM OCD Santa Fe NMOCD

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL
RESOURCES DEPARTMENT

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

FORM C-108
Revised 4-1-98

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: _____Secondary Recovery _____Pressure Maintenance __XX__Disposal _____Storage
Application qualifies for administrative approval? __XX__Yes _____No

II. OPERATOR: **Calpine Natural Gas**

ADDRESS: **1200 17th Street, Ste. 770, Denver, Colorado 80202**

CONTACT PARTY: **Hugo Cartaya** PHONE: **720-946-1302**

III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? _____Yes __XX__No
If yes, give the Division order number authorizing the project: _____

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

VI. Attach a tabulation of data on all wells of public record within the area of review, which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

*VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).

*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

NAME: **Hugo Cartaya** TITLE: **Production Manager**

SIGNATURE: Hugo Cartaya DATE: **11/30/01**

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: _____

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

(1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.

(2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.

(3) A description of the tubing to be used including its size, lining material, and setting depth.

(4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

(1) The name of the injection formation and, if applicable, the field or pool name.

(2) The injection interval and whether it is perforated or open-hole.

(3) State if the well was drilled for injection or, if not, the original purpose of the well.

(4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.

(5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

(1) The name, address, phone number, and contact party for the applicant;

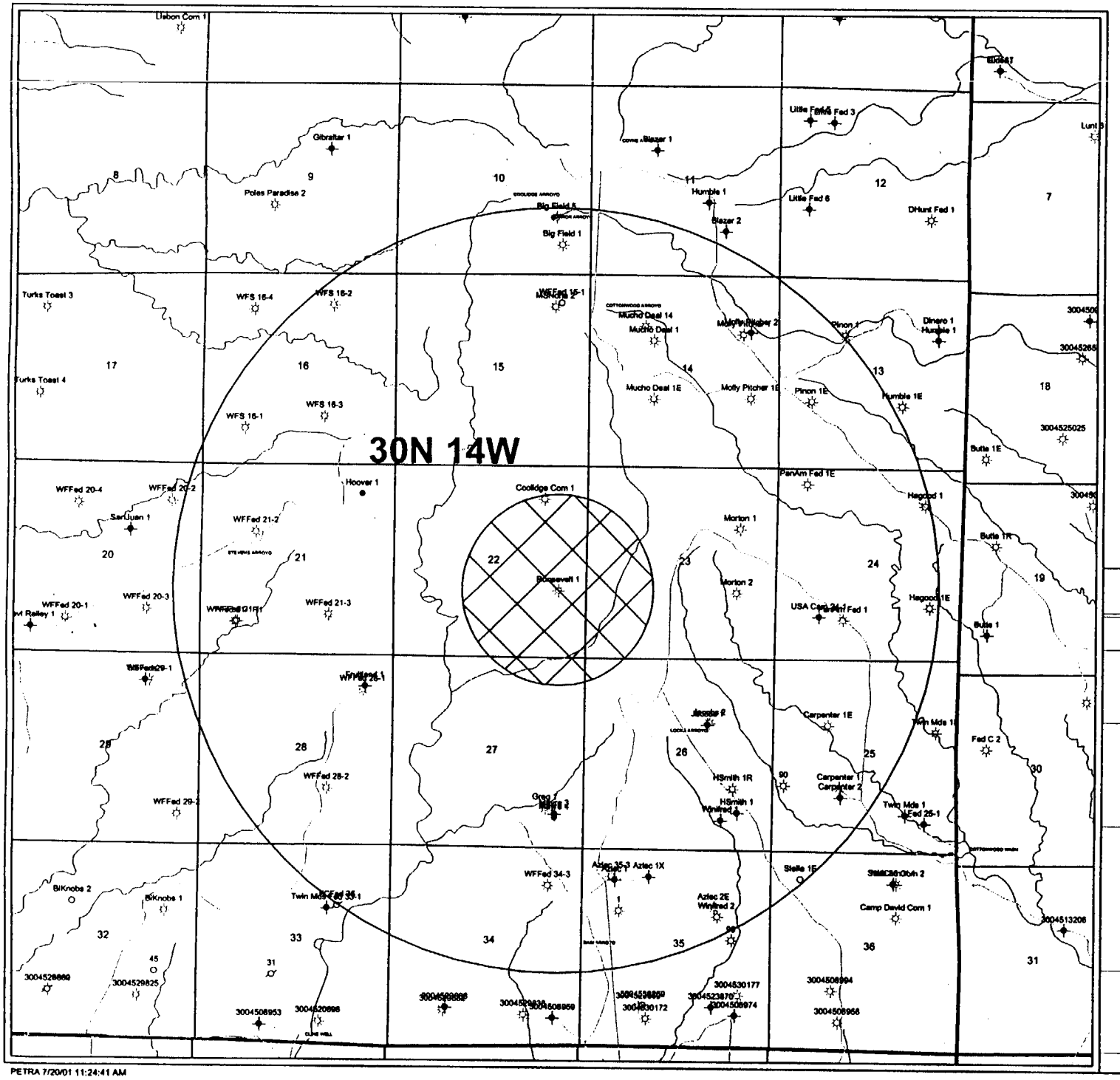
(2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;

(3) The formation name and depth with expected maximum injection rates and pressures; and,

(4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.



CALPINE NATURAL GAS

San Juan Basin New Mexico

Roosevelt #1

1/2 mile radius circle

2 mile radius circle

WELL SYMBOLS

- Location Only
- Oil Well
- Gas Well
- Plugged and Abandoned
- Abandoned Well

MAP PROJECTION

State Plane : New Mexico West (NAD27)
Transverse Mercator Projection
Ellipsoid: Clarke 1866
Central Meridian : -107.833333
Latitute of Origin : 31.000000
False Northing : 0.0
False Easting : 152400.3
Scale Factor At Origin : 0.9999

0 3,777 7,554

FEET

July 20, 2001

PETRA 7/20/01 11:24:41 AM

Side 1

INJECTION WELL DATA SHEET

OPERATOR: Calpine Natural Gas
WELL NAME & NUMBER: Roosevelt #1

WELL LOCATION: **1850' FSL & 790' FEL NESE** | **I** | **22** | **30N** | **14W**
FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

WELLBORE SCHEMATIC ***(See Attached)***

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 12 ¼" Casing Size: 8 5/8" 24#

Cemented with: _____ sx. ***or*** 148 ft3 Class B w/ 2% CaCl ft^3

Top of Cement: Surface Method Determined: Visual

Intermediate Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. ***or*** _____ ft^3

Top of Cement: _____ Method Determined: _____

Production Casing

Hole Size: 7 7/8" Casing Size: 4 ½", 11.6#

Cemented with: 875 sx. ***or*** 1663 ft3 Class B ft^3

Top of Cement: Unknown Method Determined: No Log

Total Depth: 6159 KB

Injection Interval

2802 feet to 3830 Perforated

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2 7/8" Lining Material: _____

Type of Packer: Halliburton Model G-6

Packer Setting Depth: 2752'

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? _____Yes XX No

   If no, for what purpose was the well originally drilled? Dakota Gas Production

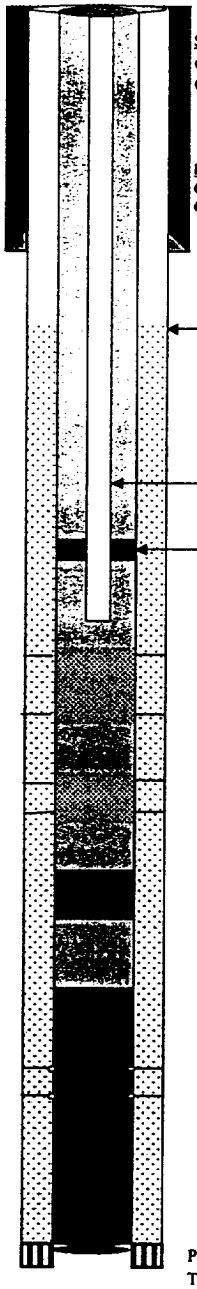
2. Name of the Injection Formation: Point Lookout and Cliff House

3. Name of Field or Pool (if applicable): ~~Basin Dakota~~ SWD; Mesaverde 96160

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. Dakota Perfs (5891-6046) 1st Cement plug to be set 6061 - 5685 (50 sx.), 2nd Cement plug to be set 5124 - 4924 (15 sx.).

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Fruitland Coal Depth 1260-1272. Pictured Cliffs 1272-1970. Beneath injection zone is Dakota @ 5889' KB

ROOSEVELT #1



Surface
Casing 219' 8 5/8" 24#
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

2 7/8" Tubing

Halliburton G-6 Packer @ 2752' with on/off tool

Cliff House Perforations 2802-2895

Pt. Lookout Perforations 3735-3830

Gallop Cement Plug 4924-5124

Dakota Cement Plug 5385-6061

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.	30-045-26458
Lease No.	NM-20314
G.L. Elevation	5647'
K.B. Elevation	5661'

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

VII. Operating Data

a) Proposed Average Injection Rate: 600 BWPD
b) Maximum Injection Rate: 1400 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: < 300 psig
e) Maximum Injection Pressure: +/- 900 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 stimulation is required, it is anticipated that a small acid job will be done to clean up the perforations.

X. Logs submitted in 1985 at time of completion.

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.

AFFIDAVIT OF PUBLICATION

Ad No. 45294

STATE OF NEW MEXICO
County of San Juan:

CONNIE PRUITT, being duly sworn says: That she is the Classified Manager of THE DAILY TIMES, a daily newspaper of general circulation published in English at Farmington, said county and state, and that the hereto attached Legal Notice was published in a regular and entire issue of the said DAILY TIMES, a daily newspaper duly qualified for the purpose within the meeting of Chapter 167 of the 1937 Session Laws of the State of New Mexico for publication on the following day(s): Monday, November 12, Tuesday, November 13, Wednesday, November 14, Thursday, November 15, Friday, November 16, Saturday, November 17, & Sunday, November 18, 2001.

And the cost of the publication is $481.96.

Connie Pruitt

ON 11/20/2001 CONNIE PRUITT appeared before me, whom I know personally to be the person who signed the above document.

Jacqueline L Beeson
My Commission Expires October 22, 2005

COPY OF PUBLICATION

918 Legals

NOTIFICATION OF INTENT TO CONVERT WELL TO WATER DISPOSAL

Contact party: Calpine Natural Gas
1200 17th Street
Suite 770
Denver, Colorado 80202
Attention: Hugo Cartaya (720) 946-1302

Well Name and Legal Description: Roosevelt #1
1850' FSL & 790' FEL
Section 22, Township 30N, Range 14W
San Juan County, New Mexico

The intended purpose of converting the Roosevelt #1 to a water disposal facility is to dispose of water from nearby Calpine Natural Gas wells therefore reducing the operating expenses of water disposal and reduce the traffic associated with trucking water.

Formation Name and Depth: Point Lookout 3692-4055
Cliff House 2799-3672

Maximum injection rate is proposed to be 1400 BWPD.

Maximum injection pressure is proposed to be 900 psig.

Interested parties must file their objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Drive, New Mexico 87505 within 15 days.

Legal No. 45294, published in The Daily Times, Farmington, New Mexico, Monday, November 12, Tuesday, November 13, Wednesday, November 14, Thursday, November 15, Friday, November 16, Saturady, November 17, & Sunday, November 18, 2001.