

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE\*  
(Other instructions on re-  
verse side)

Budget Bureau No. 1004-0135  
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

SF 079366

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Rincon Unit

8. FARM OR LEASE NAME

Rincon Unit

9. WELL NO.

240

10. FIELD AND POOL, OR WILDCAT

Basin-Fruitland Coal

11. SEC., T., R., M., OR BLM. AND  
SURVEY OR AREA

Sec 21, T27N, R6W

12. COUNTY OR PARISH 13. STATE

Rio Arriba

NM

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—" for such proposals.)

1.

OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR

Union Oil Company of California

3. ADDRESS OF OPERATOR

3300 N. Butler, Ste. 200 Farmington, NM 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)

At surface

1,500' FSL & 1,750' FWL (NESW)

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

16.

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(NOTE: Report results of multiple completion on Well  
Completion Report and Log form.)

17. 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 perti-  
nent to this work.)\*

Union Oil Company of California, dba Unocal, requests permission to dispose of contaminated soil,  
containing 10 millicuries of Scandium 46, into the drilling pit located at Rincon Well Number 240.

The actual activities and concentration meet the attached NRC guidelines. Total activities will be  
less than 0.588 millicuries and 18 pci/gram, respectively.

Burial must be at least three meters above the nearest ground water. Attached please find  
documentation from Cathodic Protection Services showing the nearest ground water in the area of  
the well to be at least 80 feet deep.

Also attached please find Unocal's permission, as the well operator, for the insitu burial as per the  
NRC guidelines.

The attached letter from the Nuclear Regulatory Commission was written by Mr. William L. Fisher,  
Chief of Nuclear Licensing Section for Region IV. Mr. Fisher's phone number is 817-860-8215. Mr.  
Fisher would be your best point of contact if you have any questions about the conditions set  
fourth in the NRC letter.

If you have any questions please call Mr. Steve Gregory at (505) 326-7600.

(3 Attachments)

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

SIGNED

Steven W. Gregory

TITLE Environmental Coordinator

DATE 2-12-90

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

WMAOCC

APPROVED

FEB 15 1990

AREA MANAGER

\*See Instructions on Reverse Side

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.





UNITED STATES  
NUCLEAR REGULATORY COMMISSION

REGION IV  
611 RYAN PLAZA DRIVE, SUITE 1000  
ARLINGTON, TEXAS 76011

JAN 25 1990

REC-1130  
FEB 19 1990 Union Oil Company of California

FEB 25 1990

Core Laboratories  
ATTN: E. D. Mott  
Radiation Safety Officer  
5295 Hollister Road  
Houston, Texas 77040

STEVEN W. BRIDGMAN  
Safety & Environment

Gentlemen:

Your letters of September 15 and October 30, 1989, proposed a method of disposing of soil contaminated on August 21, 1989, at Rincon Unit 240 in the Basin Fruitland Coal Field, New Mexico.

- ° The radioactive tracer must be limited to iridium-192, scandium-46, gold-198, and antimony-124.
- ° The total activities and concentration must be less than 4.0 millicuries and 550 pCi/gram, respectively.
- ° The cover thickness must be greater than 1.2 meters.
- ° The distance to groundwater must be greater than 3.0 meters.
- ° The distance to nearest residence, potable water well, or irrigation well must be greater than 200 meters.
- ° A documented radiation survey during and after disposal must be maintained to ensure the absence of contamination.
- ° A written agreement must be documented between the licensee and the landowner or well operator prior to disposal, if the licensee and the landowner or well operator are not of the same company.
- ° Administrative controls for a 2-year period (if the direct gamma dose rate exceeds the 1 mrem per day criterion) must be documented to ensure post-burial control by the landowner or well operator. Access should be limited by posted signs indicating that no excavation is to be conducted within the area during the 2-year period and that the landowner or well operator should be contacted, if necessary. If the direct gamma dose rate is less than 1 mrem per day, administrative controls should be imposed for a 1-year period.
- ° A record of disposal operations must be maintained, including a description of radioactive materials involved, half-lives, quantities, and kinds of such materials.
- ° All state and local requirements must be met before disposing of contaminated sands.

Three of the above criteria have not yet been satisfied.

- ° Core Laboratories has provided no confirmation for the assertion that the water table is more than 3 meters below the bottom of the pit.
- ° Core Laboratories has not provided a written agreement with the landowner.
- ° Core Laboratories has provided no assurance that all state and local requirements have been met.

**Cathodic Protection Services Company**

P. O. Box 388  
Farmington, New Mexico 87499  
1608 Schofield Lane  
Farmington, New Mexico 87401  
(505) 325-1946

RECEIVED  
FEB 14 AM 9:46

RECEIVED  
Union Oil Company of California

FEB 05 1990

February 2, 1990

STEVEN W. GREGORY  
Safety & Environment

Unocal Corporation  
3300 N. Butler, Suite 201  
Farmington, NM 87401

Attention: Mr. Steve Gregory

Subject: Major Water Zones in Cathodic Protection Deep-Well Groundbeds

Dear Mr. Gregory:

Per your recent request for information concerning the cathodic protection deep-well groundbeds for your well casings in the San Juan Basin area, we are pleased to submit the following information.

Township & Range	Depths Ranging From Shallowest to Deepest	Average Depth	Average Thickness of Water Zone
T-25N - R-10W	110' - 140'	122.5'	20'
T-25N - R-11W	60' - 140'	93.3'	45'
T-26N - R-7W	80' - 150'	112.5'	30'
T-27N - R-7W	80' - 200'	123.3'	22.5'
T-27N - R-6W	80' - 200'	131.1'	30'

This data reflects information supplied by the drilling logs acquired at the time the wells were drilled. The depths shown are based on the type of sand which was being extruded from the drilled hole and the dampness of the sand.

The thickness of the water zones are determined by the change in the strata which was being drilled.

It has been a pleasure providing this information to your company. If you have any further questions or desire additional information, please do not hesitate to contact us.

Sincerely,

Cathodic Protection Services Company



John Kerr, Corrosion Technician

cc: Mike Tabet

**CPS**  
Cathodic Protection Services  
A LUKENS COMPANY

Unocal Oil & Gas Division  
Unocal Corporation  
3300 North Butler Ave  
Suite 200  
Farmington, New Mexico 87401  
Telephone (505) 326-7600  
Fax: (505) 326-6145

**UNOCAL 76**

90 FEB 14 AM 9:44

February 5, 1990

Farmington District

E.D. Mott  
Radiation Safety Officer  
Core Laboratories  
5295 Hollister Road  
Houston, Texas 77040

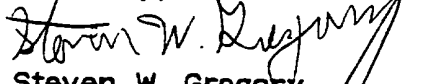
RE: DISPOSING OF CONTAMINATED SOIL  
RINCON WELL #240  
SAN JUAN CO., NEW MEXICO

Union Oil Company of California, dba Unocal, as operator of Rincon Well Number 240, hereby grants permission to Core Laboratories to dispose of contaminated soil, containing approximately 10 millicuries of Scandium 46, into the drilling pit located at the Rincon Well Number 240 location in San Juan County, New Mexico.

The above permission is granted provided that the guidelines are followed as stipulated by the Nuclear Regulatory Commission, Region IV, letter dated January 25, 1990.

Unocal has also applied for permission from the Bureau of Land Management, as land owner, for their approval of insitu disposal as detailed in the Nuclear Regulatory Commission guidelines. That approval will be forwarded to Core Laboratories when it is received.

Sincerely,



Steven W. Gregory  
Environmental Coordinator  
Union Oil Company of California  
dba Unocal

SWG:sg

cc: Robert Dale, BLM, District Manager  
Craig Van Horn  
Paul West