

HOLLAND & HART<sup>LLP</sup>



**Michael H. Feldewert**  
Recognized Specialist in the Area of  
Natural Resources - oil and gas law - New  
Mexico Board of Legal Specialization  
mfeldewert@hollandhart.com

March 6, 2013

**VIA HAND DELIVERY**

Jami Bailey  
Oil Conservation Division  
New Mexico Department of Energy,  
Minerals and Natural Resources  
1220 South Saint Francis Drive  
Santa Fe, New Mexico 87505

RECEIVED OOD  
2013 MAR -6 PM 11:21

*Case 14976*

**Re: Application of Occidental Permian, Ltd. for approval to add the North Hobbs G/SA Unit Well No. 431 as an injection well for water, carbon dioxide, and produced gas in its North Hobbs Grayburg-San Andres Tertiary Recovery Project located within the Hobbs Grayburg-San Andres Pool, Lea County, New Mexico.**

Dear Ms. Bailey:

Occidental Permian, Ltd. ("Oxy") has filed a Form C-108 (Application for Authorization to Inject) with the Oil Conservation Division seeking authorization to inject water, carbon dioxide and produced gas into the Hobbs Grayburg-San Andres Pool (31920) through Well No. 431 (API No. 30-025-05445) as part of its North Hobbs Grayburg-San Andres Tertiary Recovery Project. This well was previously approved for injection of water (only) into this pool under Division Order No. PMX-89.

As the attached letter reflects, the Division has deemed a hearing before the Oil Conservation Commission advisable for this well. Oxy therefore requests that this matter be placed on the April 16th Commission docket, and has included with this letter a proposed docket notice.

Thank you for your attention to this matter.

Sincerely,

Michael H. Feldewert  
**Attorney for Occidental Permian, Ltd.**

**Holland & Hart LLP**

Phone [505] 988-4421 Fax [505] 983-6043 [www.hollandhart.com](http://www.hollandhart.com)

110 North Guadalupe Suite 1 Santa Fe, NM 87501 Mailing Address P.O. Box 2208 Santa Fe, NM 87504-2208

Aspen Billings Boise Boulder Cheyenne Colorado Springs Denver Denver Tech Center Jackson Hole Salt Lake City Santa Fe Washington, D.C. ♻️

CASE 14976 : **Application of Occidental Permian, Ltd. for approval to add the North Hobbs G/SA Unit Well No. 431 as an injection well for water, carbon dioxide, and produced gas in its North Hobbs Grayburg-San Andres Tertiary Recovery Project located within the Hobbs Grayburg-San Andres Pool, Lea County, New Mexico.** Applicant has filed a Form C-108 (Application for Authorization to Inject) with the Oil Conservation Division seeking authorization to inject water, carbon dioxide and produced gas into the Grayburg-San Andres formation, Hobbs Grayburg-San Andres Pool (31920), through Well No. 431 (API No. 30-025-05445) as part of its existing North Hobbs Grayburg San Andres Tertiary Recovery Project. The North Hobbs G/SA Unit Well No.431 (API No.30-025-05445) is located 1640 FSL & 1000 FEL (Unit I) of Section 13, T-18-S, R-37-E, NMPM. Carbon dioxide, produced water and produced gas from the Hobbs Grayburg-San Andres Pool will be injected at an injection interval of 4,000-4,365 feet (Perforated & Open-Hole) at a maximum rate of 9,000 barrels of water per day and 15,000 MCF gas per day. The maximum surface injection pressure is anticipated to be 1100 psi for water injection, 1250 psi for CO2 injection, and 1770 psi for produced gas injection. This area is located on the north side of the City of Hobbs, New Mexico.

State of New Mexico  
Energy, Minerals and Natural Resources Department

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**Susana Martinez**  
Governor

**John Bemis**  
Cabinet Secretary

**Brett F. Woods, Ph.D.**  
Deputy Cabinet Secretary

**Jami Bailey**  
Division Director  
Oil Conservation Division



March 1, 2013

Mike Feldewert, Esq.  
Attorney for Occidental Permian Ltd  
Holland & Hart, LLP  
PO Box 2208,  
Santa Fe, NM 87504-2208

*Case 14976*

Dear Mr. Feldewert,

On December 20, 2012, under the provisions of Division Order R-6199, as amended, Occidental Permian Ltd. (OGRID No. 157984) made administrative application to the Division for permission to add Well No. 431 (API No. 30-025-05445) as an injection well for water, CO<sub>2</sub>, or produced gas in its North Hobbs Grayburg-San Andres Unit Tertiary Recovery Project located within the Hobbs; Grayburg-San Andres Pool (31920) in Lea County, New Mexico.

This well was previously approved for (only) water injection under administrative permit PMX-89.

Division Order R-6199, has been amended to expand the defined Phase I area, but has not yet included this proposed well and its location in those lands. The Phase I area was specifically designated by Order R-6199-B as the project area for the CO<sub>2</sub> and produced gas injection within this Unit. In addition to the issue of extending the Phase I area boundaries, Occidental should propose to equip and monitor the proposed CO<sub>2</sub>/produced gas injection well in a manner consistent with recent Division and Commission requirements of wells injecting or disposing of acid gas.

The Division has decided not to consider this matter administratively. If your client wishes to pursue this matter to hearing, please enter a case before the Oil Conservation Commission to do so.

Sincerely,

  
Scott Dawson  
Deputy Director

Cc: Case No. 12722

ABOVE THIS LINE FOR DIVISION USE ONLY

**NEW MEXICO OIL CONSERVATION DIVISION**  
- Engineering Bureau -  
1220 South St. Francis Drive, Santa Fe, NM 87505



Page 14976

**ADMINISTRATIVE APPLICATION CHECKLIST**

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

**Application Acronyms:**

- [NSL-Non-Standard Location]  
  [NSP-Non-Standard Proration Unit]  
  [SD-Simultaneous Dedication]  
  [DHC-Downhole Commingling]  
  [CTB-Lease Commingling]  
  [PLC-Pool/Lease Commingling]  
  [PC-Pool Commingling]  
  [OLS - Off-Lease Storage]  
  [OLM-Off-Lease Measurement]  
  [WFX-Waterflood Expansion]  
  [PMX-Pressure Maintenance Expansion]  
  [SWD-Salt Water Disposal]  
  [IPI-Injection Pressure Increase]  
  [EOR-Qualified Enhanced Oil Recovery Certification]  
  [PPR-Positive Production Response]

R-6199-B

[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]

- [A] Location - Spacing Unit - Simultaneous Dedication  
 NSL    NSP    SD

(157 984)  
OCCIDENTAL PERMIAN LTD.

Check One Only for [B] or [C]

- [B] Commingling - Storage - Measurement  
 DHC    CTB    PLC    PC    OLS    OLM

NAGSA # 431

- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  
 WFX    PMX \*    SWD    IPI    EOR    PPR

3-025-05445  
Set To  
COMMISSION  
Having

- [D] Other: Specify \* Amend Order No. PMX-89

[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or  Does Not Apply

- [A]  Working, Royalty or Overriding Royalty Interest Owners
- [B]  Offset Operators, Leaseholders or Surface Owner
- [C]  Application is One Which Requires Published Legal Notice
- [D]  Notification and/or Concurrent Approval by BLM or SLO  
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E]  For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F]  Waivers are Attached

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

David Catanach  
Print or Type Name

David Catanach  
Signature

Agent-Occidental Permian Ltd.  
Title

12/20/12  
Date

drcatanach@netscape.com  
E-Mail Address

December 20, 2012

Energy, Minerals and Natural Resources Department  
Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

Attention: Ms. Jami Bailey, CPG  
Division Director

Re: Form C-108:  
Application to Amend Order No. PMX-89  
North Hobbs G/SA Unit No. 431 (API No. 30-025-05445)  
1640' FSL & 1000' FEL, Unit I, Section 13, T-18S, R-37E  
Lea County, New Mexico

Dear Ms. Bailey,

By Order No. R-6199-B dated 10/22/2001, the Division authorized Occidental Permian Ltd. ("Occidental") to institute a CO2 tertiary recovery project within a portion of the North Hobbs Grayburg San Andres Unit ("Unit") by the injection of water, CO2 and produced gas into the Grayburg and San Andres formations, Hobbs Grayburg-San Andres Pool.

By this application, Occidental is seeking administrative approval to amend Division Order No. PMX-89 dated August 26, 1980 to authorize the injection of **CO2 and produced gas** within the above-described North Hobbs G/SA Unit No. 431 and thereby expand CO2 injection operations within the Unit. This well is currently authorized by Order No. PMX-89 for water injection only.

Please note that the North Hobbs G/SA Unit No. 431 was recently re-surveyed and it was determined that the original well location reported to the Division, which was 1650 feet from the South line and 990 feet from the East line of Section 13, was in error. The actual well location has been determined to be 1640 feet from the South line and 1000 feet from the East line. A C-101 and C-103 has been submitted to the OCD Hobbs office correcting the well location.

I believe that all the information necessary to approve the requested amendment is enclosed. If additional information is needed, please contact me at (505) 690-9453.

Sincerely,



David Catanach-Agent  
Occidental Permian Ltd.  
P.O. Box 4294  
Houston, Texas 77210

Xc: OCD-Hobbs

**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: \_\_\_\_\_ Secondary Recovery  Pressure Maintenance \_\_\_\_\_ Disposal \_\_\_\_\_ Storage  
Application qualifies for administrative approval?  Yes \_\_\_\_\_ No
- II. OPERATOR: \_\_\_\_\_ Occidental Permian Ltd. (157984) \_\_\_\_\_  
ADDRESS: \_\_\_\_\_ P.O. Box 4294, Houston, Texas 77210 \_\_\_\_\_  
CONTACT PARTY: \_\_\_\_\_ David Catanach \_\_\_\_\_ PHONE: \_\_\_\_\_ (505) 690-9453 \_\_\_\_\_
- 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 \* \_\_\_\_\_ No  
If yes, give the Division order number authorizing the project: R-6199-B dated 10/22/2001. \*Application seeks to amend PMX-89 to allow the injection of CO2 and produced gas within the NHGSAU Well No. 431.
- 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: \_\_\_\_\_ David Catanach \_\_\_\_\_ TITLE: Agent for Occidental Permian, Ltd. \_\_\_\_\_

SIGNATURE: \_\_\_\_\_  \_\_\_\_\_ DATE: \_\_\_\_\_ 12/20/12 \_\_\_\_\_

E-MAIL ADDRESS: \_\_\_\_\_ drcatanach@netscape.com \_\_\_\_\_

\* 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: OCD Hearing in Case No. 12722 presented on 9/6/2001.

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.**

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**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.

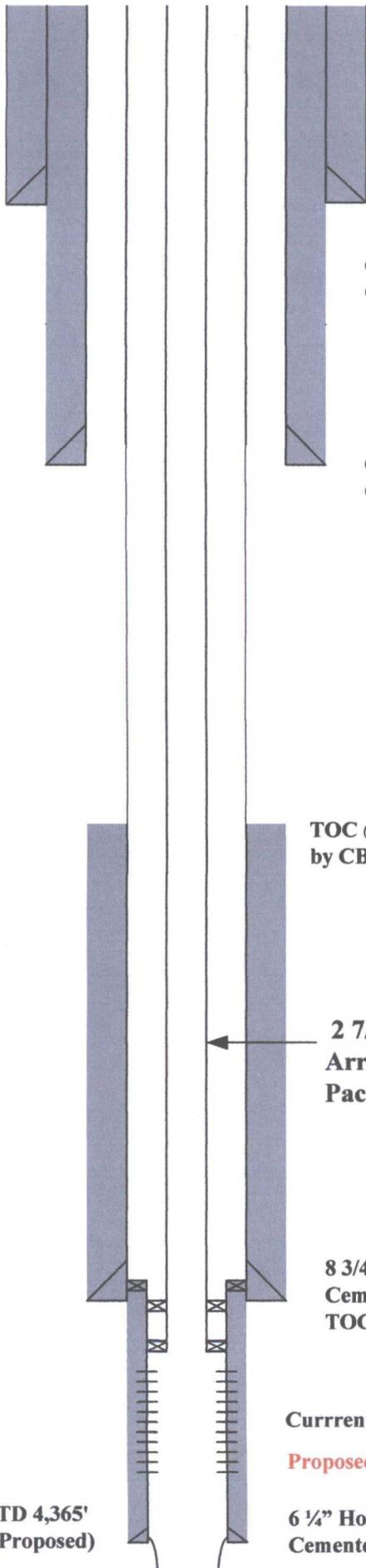
C-108 Application  
Occidental Permian Ltd.  
Application to Amend Division Order No. PMX-89  
North Hobbs G/SA Unit Well No. 431  
Section 13, T-18S, R-37E, NMPM  
Lea County, New Mexico

- I. The purpose of the application is to request approval to amend Division Order No. PMX-89 allowing the injection of CO<sub>2</sub> and produced gas within the following-described well previously permitted for water injection only within the North Hobbs Grayburg San Andres Unit Pressure Maintenance Project:  
  
North Hobbs G/SA Unit No. 431 (API No. 30-025-05445) 1640' FSL & 1000' FEL (Unit I) Section 13, T-18S, R-37E. (Originally permitted for injection by Order No. PMX-89 dated 8/26/80).
- II. Occidental Permian Ltd. (157984)  
P.O. Box 4294  
Houston, Texas 77210  
Contact Party: David Catanach-Agent (505) 690-9453
- III. Injection well data sheet/wellbore schematic diagram is attached.
- IV. This is an expansion of the North Hobbs Grayburg San Andres Unit Tertiary Recovery Project approved by Division Order No. R-6199-B dated 10/22/2001.
- V. A map showing all wells/leases within a 2-mile radius of the North Hobbs G/SA Unit Well No. 431 is attached. Also attached is a more detailed map showing the ½-mile Area of Review ("AOR") for the North Hobbs G/SA Unit Well No. 431.
- VI. Most of the AOR well data relative to this well was presented to the Division in Case No. 12722 on September 6, 2001. The attached AOR well list shows: i) a list of wells that were presented in Case No. 12722. Since well construction data was previously submitted for these wells, it is not presented in this application; ii) a list of wells and well construction data for those wells that were drilled subsequent to 2001; and iii) a list of wells and plugging schematics for AOR wells that were presented in Case No. 12722, but have since been plugged. This well data indicates that all subsequently drilled wells and all subsequently plugged wells within the AOR are constructed and/or plugged so as to preclude migration of fluid from the proposed injection interval.
- VII. 1. The Average Injection Rate: N/A.  
The maximum injection rate is anticipated to be approximately 9,000 BWPD/15,000 MCFGPD\*. (\* In accordance with Order No. R-6199-B)
2. This will be a closed system.

3. The Average Surface Injection Pressure: N/A  
Maximum Surface Injection Pressures:
  - Produced Water: 1100 psi \*\*
  - CO2: 1250 psi \*\*
  - CO2 / Produced Gas: 1770 psi \*\*
  - <will not exceed 2400 psi bottomhole pressure>
  - (\*\* In accordance with Order No. R-6199-B)
  
4. Source Water: San Andres Produced Water.  
(Mitchell Analytical Laboratory analysis attached)
  
5. Injection is to occur into the Grayburg and San Andres formations, Hobbs Grayburg-San Andres Pool.
  
- VIII. Extensive Grayburg-San Andres geologic data and extensive information regarding underground sources of drinking water has previously been presented to the Division.
  
- IX. Acid treatment of injection interval may be performed during well workover (approximately 2000 gal. of 15% HCL).
  
- X. Logs were filed at the time of drilling.
  
- XI. Attached is a water analysis from a fresh water well located in Section 19, T-18 South, Range 38 East.
  
- XII. Affirmative statement is attached.
  
- XIII. Proof of notice is attached.

**Injection Well Data Sheet/  
Wellbore Schematic**

**Occidental Permian Ltd.**  
**North Hobbs G/SA Unit No. 431**  
**API No. 30-025-05445**  
**1640' FSL & 1000' FEL (Unit I)**  
**Section 13, T-18 South, R-37 East, NMPM**  
**Lea County, New Mexico**  
**Date Drilled: October, 1935**



16" Hole; Set 12 1/2" 50# csg. @ 264'.  
 Cemented w/220 Sx.  
 Cement circulated to surface

12" Hole; Set 9 5/8" 36# csg. @ 1,591'  
 Cemented w/ 630 Sx.  
 Cement circulated to surface.

TOC @ 3,290'  
 by CBL

2 7/8" Duoline (Fiberglass Lined)  
 Arrowset 1X Packer @ 4,061' & Isolation  
 Packer @ 4,124'

8 3/4" Hole; Set 7" 24# Csg. @ 3,960'  
 Cemented w/160 Sx.  
 TOC @ 3,290' by CBL

Current Perforations: 4,163'-4,246'

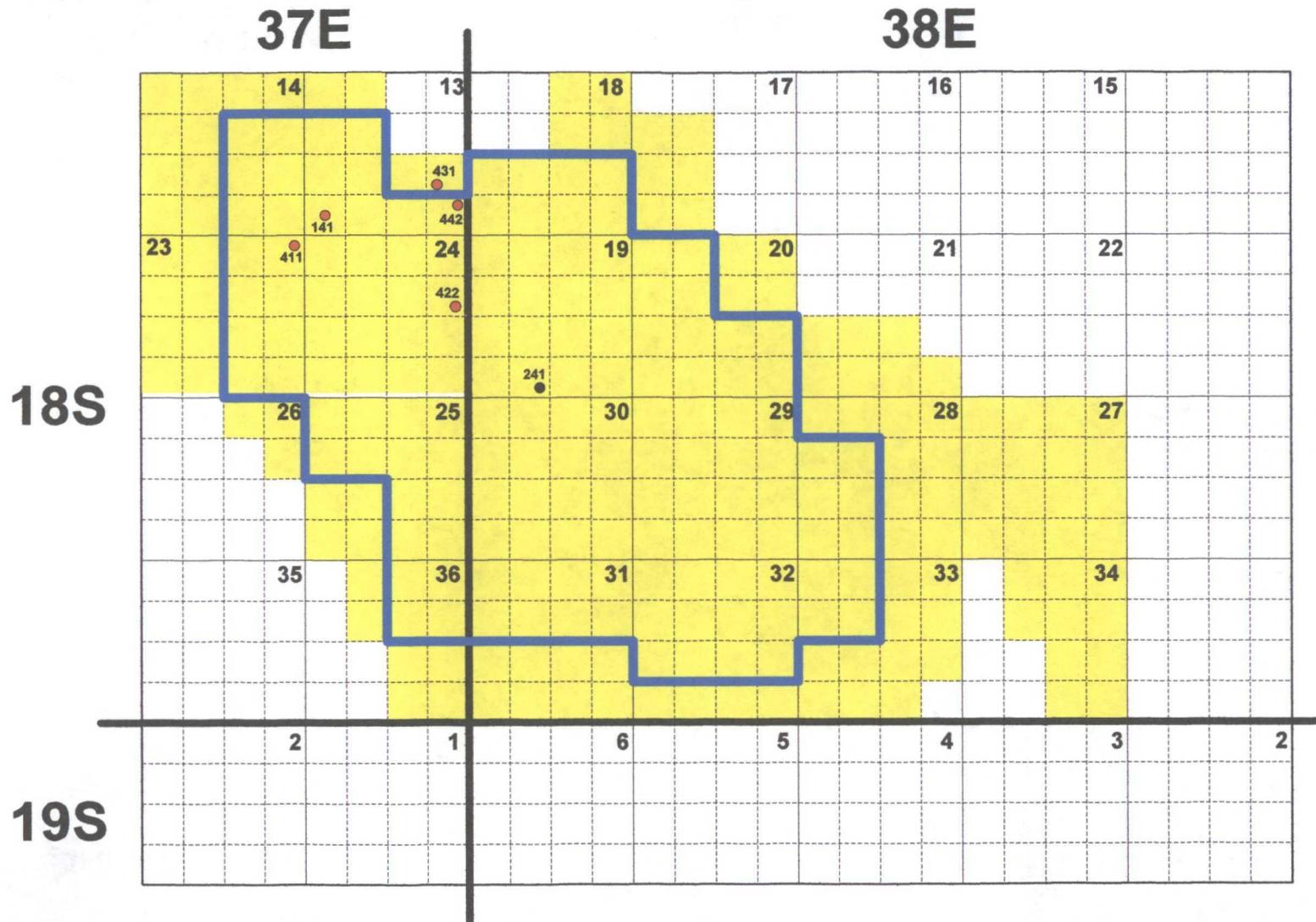
Proposed Injection Interval: Perforated & Open-hole from 4,000'-4,365'

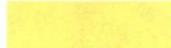
6 1/4" Hole; Set 4 1/2" 11.6# Liner 3,867'-4,299'  
 Cemented w/100 Sx. TOC @ Liner Top

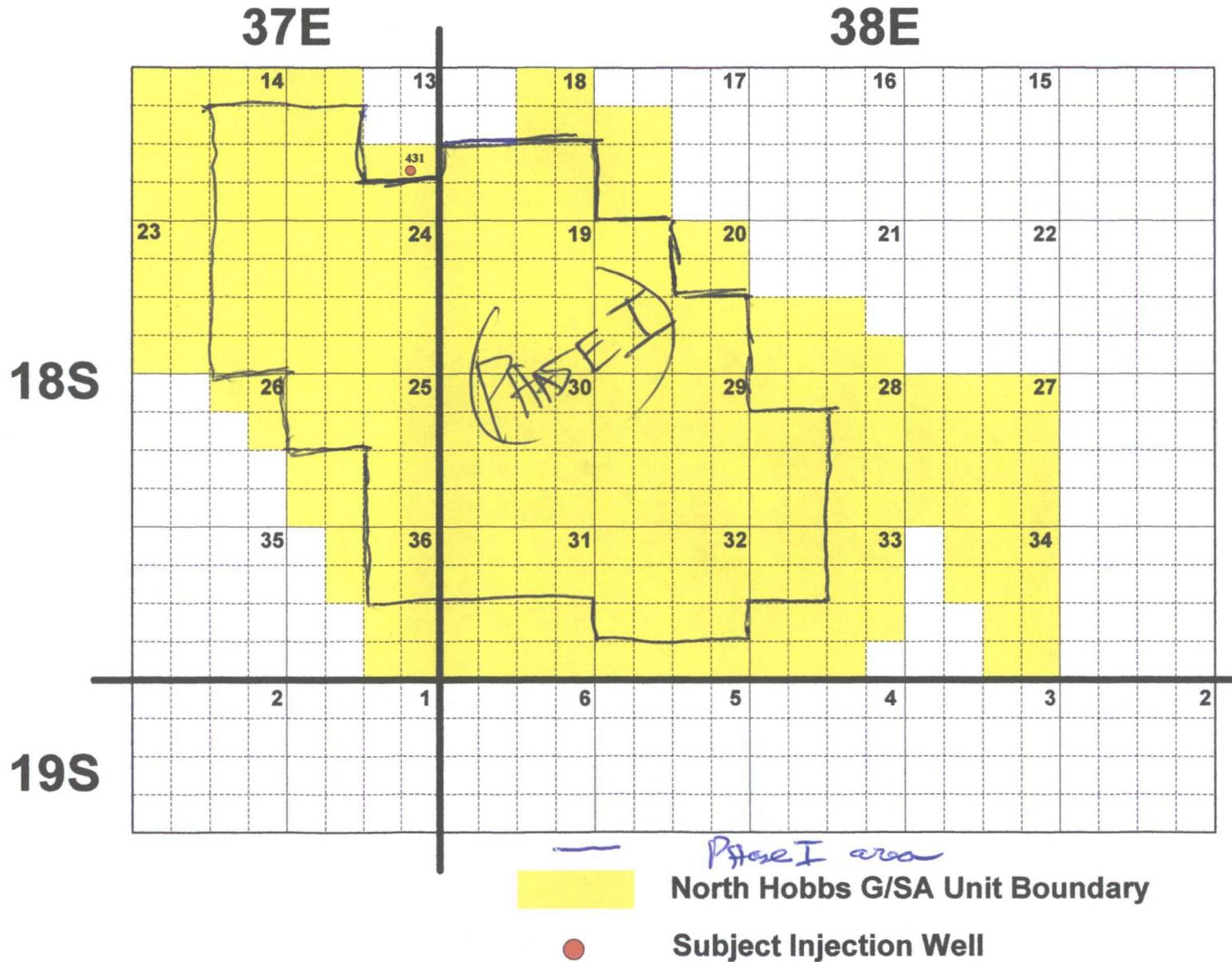
TD 4,365'  
 (Proposed)

1. Name of the Injection Formation:	San Andres
2. Name of Field or Pool:	Hobbs-Grayburg San Andres Pool
3. Is this a new well drilled for injection? If no, for what purpose was the well originally drilled?	No. Well was originally drilled as a producing well.
4. Has the well ever been perforated in any other zones? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used)	None
5. Give the depth to and name of any overlying and/or underlying oil and gas zones (pools) in this area.	Bowers (Queen), +/- 3,306' Glorieta, +/- 5,410'

Note: Current perforations are 4,163'-4,246'.  
 Current TD is 4,300' and current PBD is 4,251'.  
 It is proposed to deepen the well to 4,365' and eventually inject into the entire interval from 4,000'-4,365'. Consequently, Oxy requests that the permitted injection interval comprise the perforated and open-hole section from 4,000'-4,365'.



-  Phase 1 Area (As approved by R-6199-B)
-  North Hobbs G/SA Unit Boundary
-  Existing Injection Well
-  Proposed Injection Well



Form C-108; Application to Amend Order No. PMX-89  
 North Hobbs G/SA Unit No. 431  
 Occidental Permian Ltd.

13 18

211 TA  
26 OPL  
N HOBBSGBSAU  
TD-4257  
30 025 0544

4 JIMMY ROBERSON ENERGY CORP  
RICE  
TD-4983  
30 025 09875

3 JIMMY ROBERSON ENERGY CORP  
RICE  
TD-4143  
30 025 05444

*WTA-411  
R-4050*

4 JIMMY ROBERSON ENERGY CORP  
HARDN B  
TD-4145  
30 025 07354

221 TA  
22 OPL  
N HOBBSGBSAU  
TD-4160  
30 025 05439

2 JIMMY ROBERSON ENERGY CORP  
RICE  
TD-4144  
30 025 05443

1 JIMMY ROBERSON ENERGY CORP  
RICE  
TD-4142  
30 025 05442

1 JIMMY ROBERSON ENERGY CORP  
HARDN B  
TD-4128  
30 025 07354

2 JIMMY ROBERSON ENERGY CORP  
HARDN B  
TD-4145  
30 025 07352

131  
31 OPL  
N HOBBSGBSAU  
TD-4120  
30 025 07339

### NORTH HOBBGS (GRAYBURG SAN ANDRES) UNIT

331 TA  
33 OPL  
N HOBBSGBSAU  
TD-4243  
30 025 05447

431 TA  
43 OPL  
N HOBBSGBSAU  
TD-4088  
30 025 05445

231  
23 OPL  
N HOBBSGBSAU  
TD-4290  
30 025 07344

342 SHELL WESTERN E&P INC  
N HOBBGS GSA UNIT  
TD  
30 025 29255

1 HOBBGS DEEP A  
TD-7745  
30 025 36046

517  
57 OPL  
N HOBBSGBSAU  
TD-3270  
30 025 38087

529  
529 OPL  
N HOBBSGBSAU  
TD-4290  
30 025 3810

241  
24 OPL  
N HOBBSGBSAU  
TD-4038  
30 025 05436

341  
34 OPL  
N HOBBSGBSAU  
TD-4263  
30 025 05446

441  
44 OPL  
N HOBBSGBSAU  
TD-4258  
30 025 12732

518  
58 OPL  
N HOBBSGBSAU  
TD-4395  
30 025 07337

241 TA  
24 OPL  
N HOBBSGBSAU  
TD-4325  
30 025 07338

312  
32 OPL  
N HOBBSGBSAU  
TD-4370  
30 025 29130

414  
44 OPL  
N HOBBSGBSAU  
TD-4370  
30 025 29879

24  
42 OPL  
N HOBBSGBSAU  
TD-4217  
30 025 05479

212 TA  
212 OPL  
N HOBBSGBSAU  
TD-4370  
30 025 28880

211  
21 OPL  
N HOBBSGBSAU  
TD-4260  
30 025 07047

311  
31 OPL  
N HOBBSGBSAU  
TD-4290  
30 025 05488

411  
41 OPL  
N HOBBSGBSAU  
TD-4286  
30 025 23522

615  
65 OPL  
N HOBBSGBSAU  
TD-4388  
30 025 37027

212  
212 OPL  
N HOBBSGBSAU  
TD-4370  
30 025 29029

637  
637 OPL  
N HOBBSGBSAU  
TD-4434  
30 025 3710

413  
413 OPL  
N HOBBSGBSAU  
TD-4400  
30 025 2844

112  
42 OPL  
N HOBBSGBSAU  
TD-4285  
30 025 07358

614  
64 OPL  
N HOBBSGBSAU  
TD-4438  
30 025 35555

421  
421 OPL  
N HOBBSGBSAU  
TD-6107  
30 025 2308

2 OXY USA WTP LP  
HARDN B  
TD-1600  
30 025 36934

1 CHI OPERATING INC  
MOONSCAPE 24 STATE  
TD-  
30 025 39006

**OXY Occidental Permian Ltd.**

## Area of Review Plat NORTH HOBBGS (GRAYBURG SAN ANDRES) UNIT

WELL NO. 13-431

Hobbs: Grayburg - San Andres Field  
Lea County, New Mexico

Scale: 1" = 600' 10-29-2012 north\_hobbs.apl.dgn  
Plat prepared by BWB  
For Horizon Survey, Inc.

NOTE:  
WELL DATA DERIVED FROM THE PETROLEUM  
INFORMATION - DATA MANAGEMENT SYSTEM.  
WELL DATA SYSTEM PREPARED FOR  
OCCIDENTAL PERMIAN LTD.



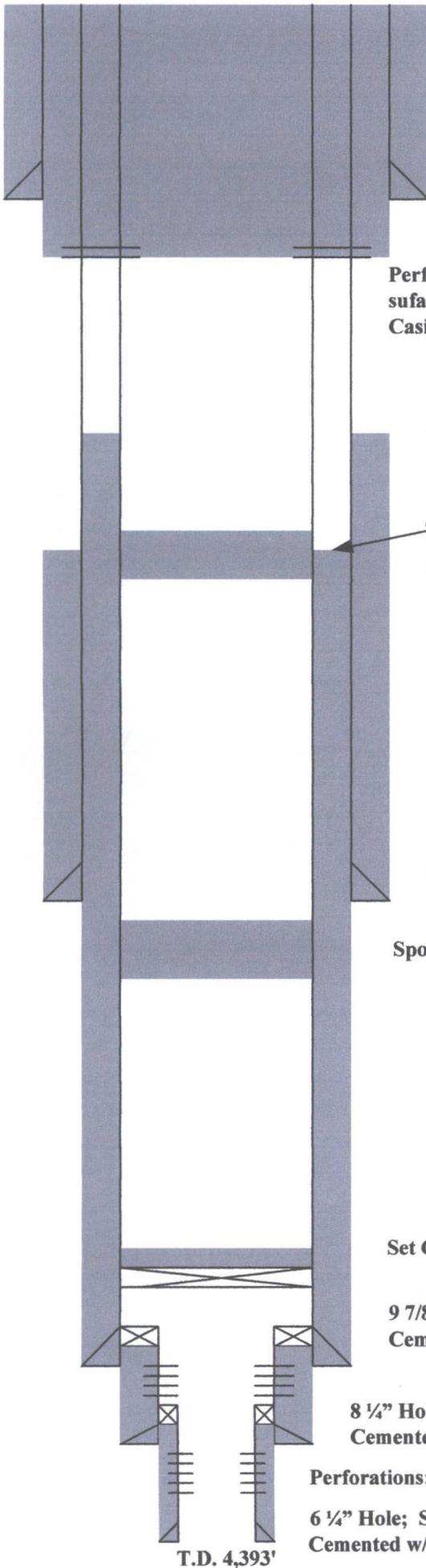


**OCCIDENTAL PERMIAN LTD.**  
**UPDATED AREA OF REVIEW WELL LIST**  
**NORTH HOBBS G/SA UNIT NO. 431**

API NUMBER	OPERATOR	LEASE NAME	WELL NO.	WELL TYPE	STATUS	FTG. N/S	FTG. E/W	UNIT	SEC.	TSHP.	RNG.	DATE DRILLED	TOTAL DEPTH	HOLE SIZE	CSG. SIZE	SET AT	SX. CMT.	CMT. TOP	MTD.
30-025-07350	Humble Oil & Refining	Hardin	1	P	PA	2310'	N 330'	W E	18	18S	38E								
30-025-07339	Occidental Permian Ltd.	NHGS AU	131	P	PA	2310'	S 330"	W L	18	18S	38E								
30-025-07356	Occidental Permian Ltd.	NHGS AU	111	P	PA	330'	N 330'	W D	19	18S	38E								
30-025-05479	Occidental Permian Ltd.	NHGS AU	412	P	Active	330'	N 330'	E A	24	18S	37E								
30-025-34788	Chevron USA, Inc.	New Mexico EA St.	1	P	Active	410'	N 610'	E A	24	18S	37E								
30-025-23522	Occidental Permian Ltd.	NHGS AU	411	P	Active	990'	N 990'	E A	24	18S	37E								
30-025-28879	Occidental Permian Ltd.	NHGS AU	414	I	Active	10'	N 1280'	E A	24	18S	37E								
30-025-05481	Occidental Permian Ltd.	NHGS AU	311	P	Active	660'	N 1980'	E B	24	18S	37E								
30-025-29130	Occidental Permian Ltd.	NHGS AU	312	I	Active	10'	N 2630'	E B	24	18S	37E								
30-025-05438	Continental Oil Co.	State B-13	3	P	PA	1980'	S 1980'	W K	13	18S	37E								
30-025-05436	Occidental Permian Ltd.	NHGS AU	241	I	Active	660'	S 1980'	W N	13	18S	37E								
30-025-29255	Shell Western E & P	NHGS AU	342	N/A	ND	1200'	S 2500'	E O	13	18S	37E								
30-025-05447	Occidental Permian Ltd.	NHGS AU	331	I	Active	1980'	S 1980'	E J	13	18S	37E								
30-025-05446	Occidental Permian Ltd.	NHGS AU	341	P	Active	660'	S 1980'	E O	13	18S	37E								
30-025-28878	Occidental Permian Ltd.	NHGS AU	442	I	Active	1200'	S 220'	E P	13	18S	37E								
30-025-12732	Occidental Permian Ltd.	NHGS AU	441	I	Active	330'	S 330'	E P	13	18S	37E								
30-025-38087	Occidental Permian Ltd.	NHGS AU	517	P	Active	635'	S 660'	W M	18	18S	38E	Nov-06	4,440'	26"	16"	40'	100	Surface	Circ.
30-025-38114	Occidental Permian Ltd.	NHGS AU	518	I	Active	275'	S 1030'	W M	18	18S	38E	Dec-06	4,468'	26"	16"	40'	100	Surface	Circ.
						277'	S 1389'	W N	18	18S	38E								
30-025-37127	Occidental Permian Ltd.	NHGS AU	615	P	Active	469'	N 402'	W D	19	18S	38E	Apr-05	4,398'	26"	16"	40'	100	Surface	Circ.
30-025-36934	OXY USA WTP Ltd.	B Hardin	1	P	Active	410'	N 348'	W D	19	18S	38E	Nov-04	7,866'	12 1/4"	8 5/8"	1,508'	675	Surface	Circ.
30-025-35953	Chevron USA, Inc.	New Mexico EA St.	2	P	Active	330'	N 1733'	E B	24	18S	37E	Aug-02	7,744'	14 3/4"	11 3/4"	415'	300	Surface	Circ.
						999'	N 1727'	E B	24	18S	37E								
30-025-38518	Occidental Permian Ltd.	NHGS AU	645	P	Active	760'	S 1045'	E P	13	18S	37E	Nov-06	4,396'	26"	16"	40'	100	Surface	Circ.
30-025-36046	Occidental Permian Ltd.	Hobbs Deep A	1	P	Active	990'	S 660'	E P	13	18S	37E	Nov-02	7,640'	26"	16"	40'	200	Surface	Circ.
						336'	S 654'	E P	13	18S	37E								
30-025-07337	Occidental Permian Ltd.	NHGS AU	141	P	PA	330'	S 330'	W M	18	18S	38E	Mar-32	4,395'	20"	16"	222'	250	Surface	File
														9 7/8"	8 5/8"	3,925'	275	2,133'	File
30-025-05442	Jimmy Roberson Energy	Rice	1	I	PA	2310'	N 330'	E H	13	18S	37E	Feb-56	4,135'	11"	8 5/8"	249'	150	Surface	Circ.
30-025-05443	Jimmy Roberson Energy	Rice	2	P	PA	2310'	N 1650'	E G	13	18S	37E	Jul-56	4,141'	11"	8 5/8"	270'	200	Surface	Circ.
30-025-07351	Jimmy Roberson Energy	Hardin B	1	P	PA	1980'	N 621'	W E	18	18S	38E	Sep-57	4,128'	12 1/2"	8 5/8"	338'	200	Surface	Circ.

Well construction d  
in this section was  
Case No. 12722 h  
required no

**Occidental Permian Ltd.**  
**North Hobbs G/SA Unit No. 141**  
**API No. 30-025-07337**  
**330' FSL & 330' FWL Unit M**  
**Section 18, T-18S, R-38E**  
**Type Well: Producer**



20" Hole; Set 16" csg  
 @ 222' Cemented w/250 sx.  
 Cement circulated to surface

Date Drilled: 3/32  
 Date PA'd: 11/01

Perforate @ 270' & circulate cement to  
 surface behind the 8 5/8" & 10 3/4" casing.  
 Casing full of cement from 270' to surface

TOC @ 1,656'

TOC @ 2,133'

Spot cement plug 1,950'-2,150' (Tagged)

15" Hole; Set 10 3/4" csg. @ 2,781'  
 Cemented w/450 sx. TOC @ 1,656' (Well file)

Spot 110 sx. cement plug over bad casing 2,869'-3,100'

Set CIBP @ 3,870 w/35' cement on top

9 7/8" Hole; Set 8 5/8" csg. @ 3,925'  
 Cemented w/275 sx. TOC @ 2,133' (Well file)

8 1/4" Hole; Set 6 5/8" Liner 3,859'-4,146'  
 Cemented w/50 Sx. TOC @ Liner Top

Perforations: 3,953'-4,260'

6 1/4" Hole; Set 4 1/2" Liner 4,086'-4,393'  
 Cemented w/100 Sx. TOC @ Liner Top

T.D. 4,393'

**Form C-108: NHGSAU No. 431**  
**Occidental Permian Ltd.**  
**PA Schematic**  
**NHGSAU No. 141**

DISTRICT 1

1625 N. French Drive, Hobbs, NM 88240

**OIL CONSERVATION DIVISION**

310 Old Santa Fe Trail, Room 206  
Santa Fe, New Mexico 87503

WELL API NO. 30-025-07337
5. Indicate Type of Lease FED <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name NORTH HOBBS (G/SA) UNIT
Section 18
8. Well No. 141
9. Pool name or Wildcat HOBBS (G/SA)
10. Elevation (Show whether DF, RKB, RT GR, etc.) 3673' GL

**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 Temporary Abandoned

2. Name of Operator OCCIDENTAL PERMIAN, LTD.

3. Address of Operator 1017 W STANOLIND RD.

4. Well Location  
Unit Letter M 330 Feet From The SOUTH Line and 330 Feet From The WEST Line  
Section 18 Township 18-S 38-E NMPM LEA County

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG & ABANDONMENT <input checked="" type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>		CASING TEST AND CEMENT JOB <input type="checkbox"/>	
OTHER: _____ <input type="checkbox"/>		OTHER: _____ <input type="checkbox"/>	

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.

Well is TA'd with CIBP @3870' capped w/35' cmt. TOC @3835'.  
CMT plug over bad csg @2869' to 3100'.

Perforate @270' thru 8-5/8" csg and the 10-3/4".  
Spot cmt from 1950' to 2150'. Top of Anhy @2040'.  
Tag cmt plug. @1950'.  
Circ cmt to surf behind 8-5/8" and 10-3/4" csg. Pump from surf thru sqz holes @270'. Bottom of surf csg @222'.  
Csg full of cmt from 270' to surf.  
Cut off csg and installed dry hole marker 4' above ground level. NHU 18-141, UL "M", Sec. 18, TWN 18-S, RNG 38-E.

Well is P&A'd

Rig Up Date: 11/07/2001  
Rig Down Date: 11/09/2001

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Robert Gilbert TITLE COMPLETIONS SPECIALIST DATE 11/9/01  
TYPE OR PRINT NAME ROBERT GILBERT TELEPHONE NO. 505/397-8206

(This space for State Use)

APPROVED BY [Signature] TITLE [Signature] DATE 2-14-02  
CONDITIONS OF APPROVAL IF ANY: GWW

425



Energy, Minerals and Natural Resources Department

Revised 1-1-89

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

**OIL CONSERVATION DIVISION**  
P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

WELL API NO. 30-025-07337
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.

<p align="center"><b>SUNDRY NOTICES AND REPORTS ON WELLS</b> (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.)</p>	
1. Type of Well: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER	7. Lease Name or Unit Agreement Name N. HOBBS (G/SA) UNIT SECTION 18
2. Name of Operator Shell Western E&P Inc.	8. Well No. 141
3. Address of Operator P.O. Box 576 Houston, TX 77001-0576	9. Pool name or Wildcat HOBBS (G/SA)
4. Well Location Unit Letter <u>M</u> : <u>330</u> Feet From The <u>SOUTH</u> Line and <u>330</u> Feet From The <u>WEST</u> Line	
Section <u>18</u> Township <u>18S</u> Range <u>38E</u> NMPM LEA County	10. Elevation (Show whether DP, RKB, RT, GR, etc.) 3673' DF

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>		CASING TEST AND CEMENT JOB <input type="checkbox"/>	
OTHER: _____ <input type="checkbox"/>		OTHER: <u>TA'D</u> <input checked="" type="checkbox"/>	

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.

1-24 TO 2-04-94:

POH W/PROD EQMT. SET CIBP @ 3870' & CAPPED W/35' CMT. PT CSG TO 500#, BLED OFF 300# IN 5 MIN. SET PKR @ 3792'. PRESS UP ON TBG TO 500#, BLED DWN TO 300# IN 1 MIN. REPEATED SEVERAL TIMES, SAME RESULTS. ATTEMPTD TO PT CSG AGAIN, COMM AROUND PKR. PULL PKR UPHOLE, COMM AGAIN. CHNG OUT PKR. STILL COMM AROUND PKR. RIH W/NEW PKR W/LARGER SEATING ELEMENTS. SET PKR @ 3792'. PRESS UP ON TBG TO 500#, HELD. ADDL PT UPHOLE. ISOLATED CSG LK BTW 2909' & 2972'. REL PKR & POH. RIH W/TBG TO 3100'. SPOT BALANCE PLUG OF 110 SX CLS C CMT. WOC 24 HRS. TAG TOC @ 2869'. PT CSG TO 500#, HELD 30 MIN. CIRC INHIB FL. TOP OFF CSG W/INHIB FL. FLANGE UP WH. CLN LOC. WELL IS TA'D.

NOTE: OBTAINED APPROVAL FROM OCD'S JERRY SEXTON TO SPOT BALANCE PLUG.

PURSUANT TO THE PROVISIONS OF NMOCD RULE 203, SHELL WESTERN HEREBY REQUESTS TEMPORARY ABANDONMENT APPROVAL FOR A PERIOD OF FIVE YEARS.

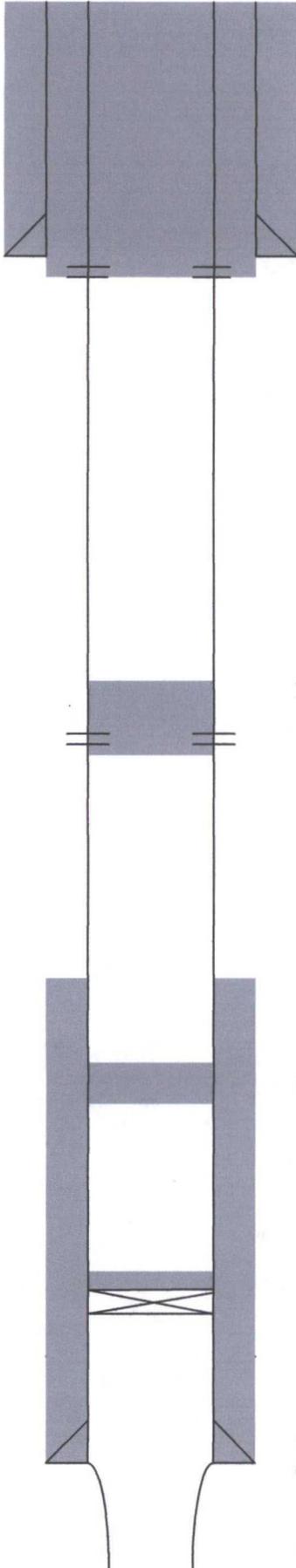
I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE J. Mason Winder TITLE TECH. MGR. - ASSET ADMIN. DATE 2/18/94  
 TYPE OR PRINT NAME A. J. DURRANI TELEPHONE NO. 713/544-3797

(This space for State Use)  
 APPROVED BY [Signature]  
 CONDITIONS OF APPROVAL, IF ANY:

DISTRICT 1 SUPERVISOR  
 DATE FEB 24 1994  
 This Approval of Temporary Abandonment Expires 2-1-99

**Jimmy Roberson Energy Corp.**  
**Rice No. 1**  
**API No. 30-025-05442**  
**2310' FNL & 330' FEL, Unit H**  
**Section 13, T-18S, R-37E**  
**Type Well: Injector**



11" Hole; 8 5/8" csg. set @ 249'  
Cemented w/150 sx.  
Cement circulated to surface

Perforate @ 270'. Squeeze 80 sx. cement  
to surface

**Date Drilled: 2/56**  
**Date PA'd: 6/04**

Perforate @ 1,605'. Spot 25 sx. cement plug 1,455'-1,655'

TOC @ 2,240' by calculation

Spot 25 Sx. cement plug 2,500'-2,740'

Set CIBP @ 3,980'. Spot 25 Sx. cement plug 3,780'-3,980'

7 7/8" Hole; 5 1/2" csg. set @ 4,018'  
Cemented w/350 Sx. TOC @ 2,240' by calculation.

Open hole producing interval: 4,018'-4,135'

T.D. 4,135'

**Form C-108: NHGSAU No. 431**  
**Occidental Permian Ltd.**  
**PA Schematic**  
**Rice No. 1**

MAYO MARRS CASING PULLING INC.  
BOX 863 KERMIT, TEXAS 79745

NEW MEXICO OGD

SUPERVISOR-FRANK RIVAS

Lease: RICE  
Well: # 1  
Operator: JIMMY ROBERSON ENERGY  
Project: P & A -  
Contract: 04-521-0750-0275 IFB # 40-521-07-00509

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BID = \$ 13,885.00

06-09-04 (9 HRS)  
MIRU - NDWH - NUBOP - NO TUBING IN WELL - RIH WITH GAUGE RING TO 3980' - POOH - RIH & SET  
CIBP @ 3980' - RIH WITH MMCPI WORKSTRING TO 3980' - CLOSE IN WELL

6-10-04 (12)  
CIR. 10# MUD - CLOSE BOP & TEST CASING TO 1200# - SPOT 25 SXS @ 3980'-3780' - POOH & SPOT 25  
SXS @ 2740'-2500' - POOH - PERFORATE @ 1605' - TEST CASING TO 1200# - POOH - RIH & SPOT 25 SXS  
@ 1655'-1455' - POOH - PERFORATE @ 270' - SET PACKER @ 30' - BREAK CIRCULATION - POOH -  
NIPPLE UP WELLHEAD - SQUEEZE 80 SXS TO SURFACE - CLOSE IN WELL

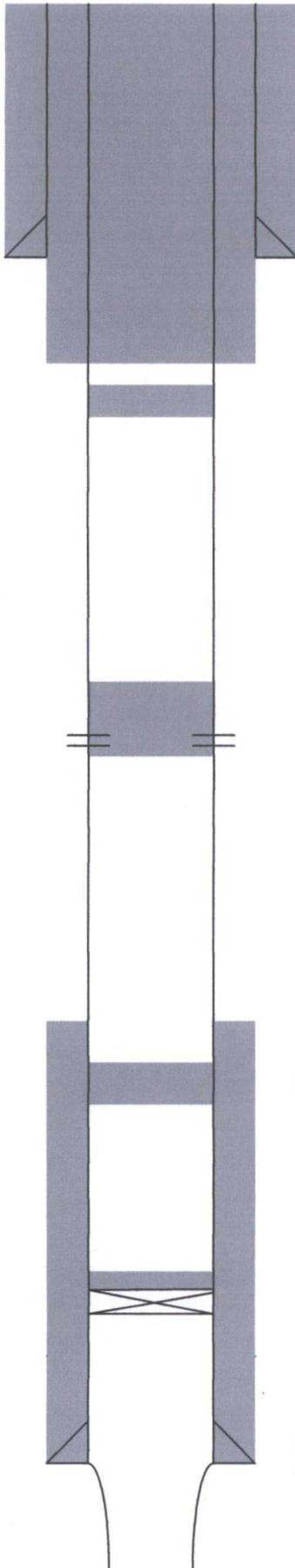
6-11-04 (2)  
RIG DOWN MOVE OUT

5 SXS CEMENT @ \$ 12.00/SACK ..... \$ 60.00

CREDIT:  
1-WELLHEAD ..... \$ 50.00

COST = \$ 13,895.00

**Jimmy Roberson Energy Corp.**  
**Rice No. 2**  
**API No. 30-025-05443**  
**2310' FNL & 1,650' FEL, Unit G**  
**Section 13, T-18S, R-37E**  
**Type Well: Producer**



11" Hole; 8 5/8" csg. set @ 270'  
Cemented w/200 sx.  
Cement circulated to surface

Holes in csg. 270'-475'. Squeeze 160 sx.  
cement to surface leaving casing full

Spot 25 sx. cement plug 440'-523'

Perforate @ 1,600'. Spot 25 sx. cement plug 1,443'-1,650'

TOC @ 2,511' by calculation

Spot 25 Sx. cement plug 2,586'-2,740'

Set CIBP @ 3,940'. Spot 25 Sx. cement plug 3,740'-3,940'

7 7/8" Hole; 5 1/2" csg. set @ 4,035'  
Cemented w/300 Sx. TOC @ 2,511' by calculation.

Open hole producing interval: 4,035'-4,141'

T.D. 4,141'

**Date Drilled: 7/56**

**Date PA'd: 6/04**

**Form C-108: NHGSAU No. 431**  
**Occidental Permian Ltd.**  
**PA Schematic**  
**Rice No. 2**

MAYO MARRS CASING PULLING INC.  
BOX 863 KERMIT, TEXAS 79745

NEW MEXICO OCD

SUPERVISOR-FRANK RIVAS

Lease: RICE  
Well: # 2  
Operator: JIMMY ROBERSON ENERGY  
Project: P & A -  
Contract: 04-521-0750-0275 IFB # 40-521-07-00509

---

BID = \$ 13,885.00

06-17-04 (10 HRS)  
MIRU - NDWH - NUBOP - NO TUBING IN WELL - RIH WITH GAUGE RING TO 3940' - POOH - RIH & SET  
CIBP @ 3940' - RIH WITH MMCPI WORKSTRING TO 3940' - CIR. 10# MUD - CLOSE BOP & TEST CASING  
WILL NOT TEST - SPOT 25 SXS @ 3940'-3740' - POOH & SPOT 25 SXS @ 2740' - POOH - CLOSE IN WELL

6-18-04 (11)  
RIH & TAG @ 2586' - POOH - RIH WITH PACKER LOOKING FOR HOLES - TEST CASING - FIND HOLES  
@ 270'-475' - POOH - PERFORATE @ 1600' - RIH WITH PACKER & TEST TO 1200# - POOH - RIH & SPOT  
25 SXS @ 1650' - POOH - WOC - RIH & TAG @ 1443' - POOH & SPOT 25 SXS @ 523' - POOH - CLOSE IN  
WELL

2 HRS RIG TIME TO SEARCH FOR HOLES @ \$ 165.00/HR ... \$ 130.00

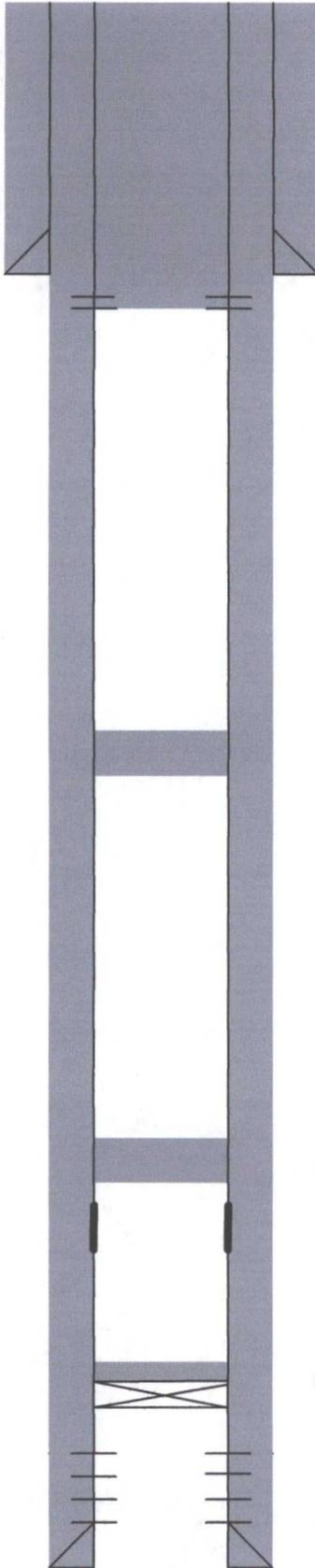
6-21-04 (6)  
RIH & TAG @ 440' - TEST CASING - HOLES BELOW 270' - POOH - NIPPLE DOWN BOP - NIPPLE UP  
WELLHEAD - SQUEEZE 160 SXS TO SURFACE LEAVING CASING FULL - RIG DOWN - MOVE OUT

1 EXTRA PUMP CHARGE ... \$ 300.00  
110 SXS CEMENT @ \$ 12.00/SACK .... \$ 1,320.00  
(BID 150 SXS USED 260)

CREDIT:  
1-WELLHEAD .... \$ 50.00

COST = \$ 15,455.00

**Jimmy Roberson Energy Corp.  
Hardin B No. 1  
API No. 30-025-07351  
1980' FNL & 621' FWL, Unit E  
Section 18, T-18S, R-38E  
Type Well: Producer**



Spot 25 sx. cement plug  
224'-surface

12 1/2" Hole; 8 5/8" csg. set @ 338'  
Cemented w/200 sx.  
Cement circulated to surface

Perforate @ 350'. Set packer @ 100' &  
squeeze w/25 sx. cement. Did not  
circulate. RIH & tag @ 224'

**Date Drilled: 9/57  
Date PA'd: 6/04**

Spot 25 Sx. cement plug 1,377'-1,625'

Spot 25 Sx. cement plug 2,502'-2,750'

DV Tool @ 2,789'

Set CIBP @ 4,000'. Spot 25 Sx. cement plug 3,800'-4,000'

Perforations: 4,020'-4,098'

7 7/8" Hole; 5 1/2" csg. set @ 4,126'. Stage Cemented  
1<sup>st</sup> Stage-475 Sx. 2<sup>nd</sup> Stage-1,375 Sx. DV Tool @ 2,789'  
Cement circulated to surface.

**T.D. 4,128'**

**Form C-108: NHGSAU No. 431  
Occidental Permian Ltd.  
PA Schematic  
Hardin B No. 1**

MAYO MARRS CASING PULLING INC.  
BOX 863 KERMIT, TEXAS 79745

NEW MEXICO OCD

SUPERVISOR-FRANK RIVAS

Lease: HARDIN -B-  
Well: # 1  
Operator: JIMMY ROBERSON ENERGY  
Project: P & A -  
Contract: 04-521-0750-0275 IFB # 40-521-07-00509

---

BID = \$ 13,885.00

06-01-04 (5 HRS)  
MIRU - NDWH - NUBOP - NO TUBING IN WELL - RIH WITH GAUGE RING TO 4000' - POOH - RIH & SET  
CIBP @ 4000' - RIH WITH MMCPI WORKSTRING - CLOSE IN WELL

6-02-04 (10 HRS)  
CIR. 10# MUD - TEST CASING TO 1200# - SPOT 25 SXS @ 4000'-3800' - POOH & SPOT 25 SXS @ 2750'-  
2502' - POOH - SPOT 25 SXS @ 1625'-1377' - POOH & PERFORATE @ 350' - SET PACKER @ 100' &  
SQUEEZE 25 SXS @ 800# SHUT IN PRESSURE - DID NOT CIRCULATE - CLOSE IN WELL

6-03-04 (5)  
POOH WITH PACKER - RIH & TAG @ 224' - SPOT 25 SXS @ 224' TO SURFACE -

6-04-04 (1)  
RIG DOWN - MOVE OUT

CREDIT:  
1 WELLHEAD .. \$ 50.00

COST = \$ 13,835.00





**Laboratory Services, Inc.**

4016 Fiesta Drive  
Hobbs, New Mexico 88240  
Telephone: (505) 397-3713

**Water Analysis**

COMPANY Altura Energy Ltd,  
SAMPLE Fresh Water Well For Well 19-231  
SAMPLED BY \_\_\_\_\_  
DATE TAKEN 5/10/00  
REMARKS T18S-R38E-Sec 19, Qtr Sec. 4,3,2

Barium as Ba	0
Carbonate alkalinity PPM	0
Bicarbonate alkalinity PPM	228
pH at Lab	7.3
Specific Gravity @ 60°F	1.001
Magnesium as Mg	169
Total Hardness as CaCO3	292
Chlorides as Cl	64
Sulfate as SO4	100
Iron as Fe	0
Potassium	0.09
Hydrogen Sulfide	0
Rw	11.8
Total Dissolved Solids	715
Calcium as Ca	123
Nitrate	12.8

Results reported as Parts per Million unless stated

Langelier Saturation Index - 0.25

Analysis by: Rolland Perry  
Date: 5/14/00



**Laboratory Services, Inc.**

4016 Fiesta Drive  
Hobbs, New Mexico 88240  
Telephone: (505) 397-3713

**Water Analysis**

**COMPANY** Altura Energy Ltd,

**SAMPLE** Fresh Water Well For Well 19-231

**SAMPLED BY** \_\_\_\_\_

**DATE TAKEN** 5/10/00

**REMARKS** T18S-R38E Sec. 19, Qtr Sec 4,3,2

Barium as Ba	0	
Carbonate alkalinity PPM	0	
Bicarbonate alkalinity PPM	180	
pH at Lab	7.58	
Specific Gravity @ 60°F	1.001	
Magnesium as Mg	158	
Total Hardness as CaCO3	272	
Chlorides as Cl	60	
Sulfate as SO4	80	
Iron as Fe	0.02	
Potassium	0.09	
Hydrogen Sulfide	0	
Rw	11.8	23.0 C
Total Dissolved Solids	615	
Calcium as Ca	114	
Nitrate	11.9	

Results reported as Parts per Million unless stated

Langelier Saturation Index - 0.07

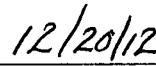
Analysis by: Rolland Perry  
Date: 5/14/00

Form C-108  
Affirmative Statement  
Occidental Permian Ltd.  
North Hobbs G/SA Unit Well No. 431  
Section 13, T-18 South, R-37 East, NMPM,  
Lea County, New Mexico

Available geologic and engineering data has been examined and no evidence of open faults or hydrological connection between the injection zone and any underground sources of drinking water has been found.



David Catanach  
Agent-Occidental Permian Ltd.



Date

December 20, 2012

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

TO: OFFSET OPERATORS, OFFSET LESSEES, SURFACE OWNER  
(SEE ATTACHED LIST)

Re: Occidental Permian Ltd.  
Form C-108 (Application for Authorization to Inject)  
Application to Amend Order No. PMX-89  
North Hobbs G/SA Unit Well No. 431  
Section 13, T-18S, R-37E, NMPM,  
Lea County, New Mexico

Dear Sir:

Enclosed please find a copy of Oil Conservation Division Form C-108 (Application for Authorization to Inject) for the Occidental Permian Ltd. ("Occidental") North Hobbs G/SA Unit Well No. 431 located in Unit I of Section 13, Township 18 South, Range 37 East, NMPM, Lea County, New Mexico. This well was previously authorized for water injection within the North Hobbs Grayburg San Andres Unit Pressure Maintenance Project by Order No. PMX-89. Occidental is now seeking an amendment to this order to allow injection of carbon dioxide and produced gas within this well.

You are being provided a copy of the application as an offset operator, offset leaseholder, offset mineral interest owner or surface owner of the land on which the injection well is located. The requested amendment will allow the completion of an efficient injection/production pattern within the project area.

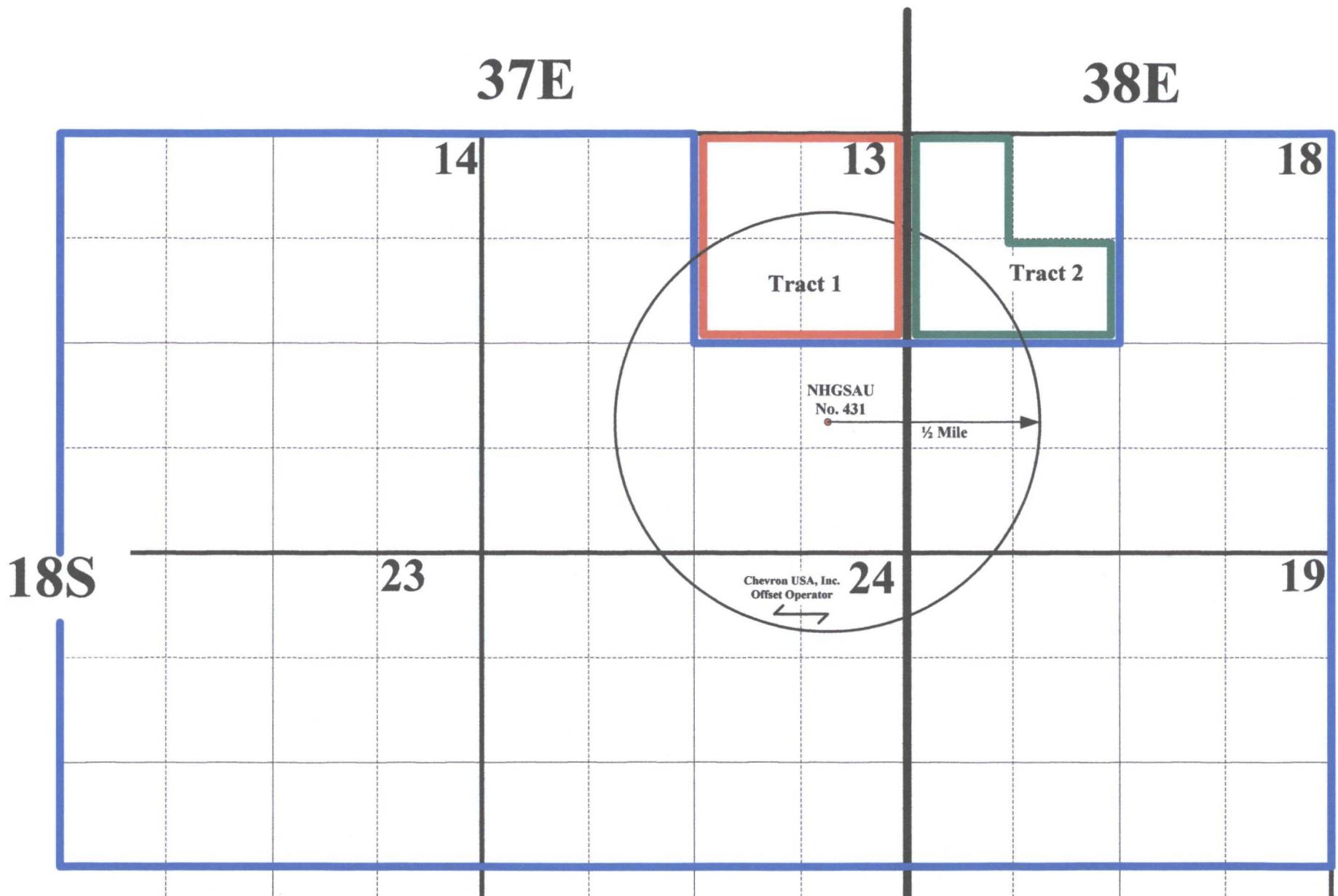
Objections must be filed with the Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, New Mexico 87505, within 15 days.

If you should have any questions, please contact me at (505) 690-9453.

Sincerely,



David Catanach-Agent  
Occidental Permian Ltd.  
P.O. Box 4294  
Houston, Texas 77210



-  Boundary of North Hobbs Grayburg-San Andres Unit
-  Tract 1 Notice Area
-  Tract 2 Notice Area

**Occidental Permian, Ltd.**  
**Form C-108; Application to Amend PMX-89**  
**North Hobbs G/SA Unit Well No. 431**  
**1/2 Mile Notice Area**

Occidental Permian, Ltd.  
Form C-108: Application to Amend PMX-89  
North Hobbs G/SA Unit Well No. 431  
Section 13, T-18S, R-37E, NMPM,  
**Notification List**

All acreage within the ½ mile notice area for the North Hobbs G/SA Unit Well No. 431 is located within Occidental Permian Ltd's North Hobbs Grayburg San Andres Unit, **with the exception** of the NE/4 of Section 13, Township 18 South, Range 37 East, and the S/2 NW/4 and NW/4 NW/4 of Section 18, Township 18 South, Range 38 East. These tracts are identified as Tract 1 and Tract 2, respectively (See attached map.) The following-described mineral interest owners within Tracts 1 & 2 are being provided notice of this application.

In addition, Chevron USA, Inc., who operates producing wells that penetrate the injection interval within the N/2 NE/4 of Section 24 is being provided notice as an offset operator, as is Black Gold Estates, LLC, the surface owner at the wellsite of the North Hobbs G/SA Unit No. 431.

**Offset Operator & Surface Owner**

Chevron USA, Inc.  
15 Smith Road  
Midland, Texas 79705

Black Gold Estates, LLC  
c/o Hubbard Enterprises, Inc.  
72-980 Fred Waring Dr., Suite B  
Palm Desert, CA 92260

**Tract 1 (Mineral Interest Owners)**

Apache Corp.  
2000 Post Oak Blvd.  
Suite 100  
Houston, Texas 77056

Occidental Petroleum Corp.  
P.O. Box 27757  
Houston, Texas 77046

Jessie B. Crump Family Trust  
Bank of America, NA, Trustee  
P.O. Box 830308  
Dallas, Texas 75283

Joe & Jessie Crump Fund  
Bank One Texas, NA, Trustee  
P.O. Box 2605  
Fort Worth, Texas 76113

Perry Glynn Gregory  
503 W. Vista Pkwy.  
Roswell, New Mexico 88201

Leede Operating Co., LLC  
2100 Plaza Tower One  
6400 South Fiddlers Green Circle  
Englewood, Colorado 80111

ConocoPhillips Company  
3300 N. "A" Street, Bldg. 6  
Midland, Texas 79705-5490

Mack H. Woolridge  
P.O. Box 3217  
Albany, Texas 76430

Occidental Permian, Ltd.  
Form C-108: Application to Amend PMX-89

**Tract 1 (Cont.)**

H. R. Stasney & Sons, Ltd.  
P.O. Box 3190  
Albany, Texas 76430

Sheryl Ann Miller  
P.O. Box 1049  
Leakey, Texas 78873

Chieftan Royalty Company  
P.O. Box 18441  
Oklahoma City, Oklahoma 73154

Louis H. Witwer III Trust  
Louis H. Witwer III, Trustee  
P.O. Box 2453  
Tulsa, Oklahoma 74101

Winifred Witwer Edwards Trust  
Bank of America NA, Trustee  
P.O. Box 830308  
Dallas, Texas 75238

Jean D. Beckwith Trust  
James D. Schmidt, Trustee  
515 S. Figueroa St.  
Los Angeles, CA 90071

Sylvie Bryce Trusts u/w/o  
Angelica S. Bryce  
fbo Nina Potter  
fbo Clifford Potter  
Angelica Schuyler Bryce  
Wells Fargo Bank NA, Trustee  
P.O. Box 5383  
Denver, Colorado 80217

Ariel Bryce Appleton Trusts u/w/o  
Angelica S. Bryce  
fbo Lynn Appleton  
fbo Marc Appleton  
fbo Lee Appleton  
fbo Peter Appleton  
Wells Fargo Bank NA, Trustee  
P.O. Box 5383  
Denver, Colorado 80217

Virginia A Marting, Revocable Trust  
1306 W. Cheyenne Rd.  
Colorado Spring, Colorado 80906

Denbury Resources, Inc.  
5320 Legacy Drive  
Plano, Texas 75024

Injection Engineering Services  
Profit Sharing Trust  
Walter O. Ford, Trustee  
P.O. Box 4050  
Santa Fe, New Mexico 89702

**Tract 2 (Mineral Interest Owners)**

Texland Petroleum Hobbs, LLC  
777 Main Street, Suite 3200  
Fort Worth, Texas 76102

Michael E. Chapman  
777 Main Street, Suite 3200  
Fort Worth, Texas 76102

Keith W. Davis  
777 Main Street, Suite 3200  
Fort Worth, Texas 76102

Bryan E. Lee  
777 Main Street, Suite 3200  
Fort Worth, Texas 76102

Occidental Permian, Ltd.  
Form C-108: Application to Amend PMX-89

**Tract 2 (Cont.)**

Judith O. McGinn  
777 Main Street, Suite 3200  
Fort Worth, Texas 76102

Gary Phillips  
777 Main Street, Suite 3200  
Fort Worth, Texas 76102

Schumacher Partners II, LP  
777 Main Street, Suite 3200  
Fort Worth, Texas 76102

James H. Wilkes  
777 Main Street, Suite 3200  
Fort Worth, Texas 76102

Realeza Del Spear, LP  
P.O. Box 1684  
Midland, Texas 79701

Roy G. Barton Sr., & Opal Barton  
Revocable Trust  
Roy G. Barton Jr., Trustee  
1919 North Turner St.  
Hobbs, New Mexico 88240

Estate of Kathleen Hallin  
c/o Eric Hallin  
1320 S. Commerce St., TRLR 52  
Ardmore, Oklahoma 73401

Burke Lewis Healey  
9512 Red Mountain Road  
Livermore, Colorado 80536

Healey, LP  
P.O. Box 2120  
Ardmore, Oklahoma 73402

Clifford Cone  
P.O. Drawer 1629  
Lovington, New Mexico 88260

Namy Energy, LP  
777 Main Street, Suite 3200  
Fort Worth, Texas 76102

Rector Oil, Ltd.  
777 Main Street, Suite 3200  
Fort Worth, Texas 76102

William F. Pendelton  
777 Main Street, Suite 3200  
Fort Worth, Texas 76102

Carter Family Minerals, LLC  
P.O. Box 328  
Fort Sumner, New Mexico 88119

Pacific Enterprises ABC Corp.  
3131 Turtle Creek Blvd.  
Dallas, Texas 75219

Crawford Culp  
415 E. Arriba Dr.  
Hobbs, New Mexico 88240

W.H.T. LLC  
258 Compound Rd.  
Ardmore, Oklahoma 73401

Southern Cross Alliance, LLC  
P.O. Box 777  
Davis, Oklahoma 73030

Wentz Production, LLC  
P.O. Box 834  
Ardmore, Oklahoma 73030

Thomas Cone  
P.O. Box 778  
Jay, Oklahoma 74346

Occidental Permian, Ltd.  
Form C-108: Application to Amend PMX-89

**Tract 2 (Cont.)**

Cathie Cone Auvenshine  
P.O. Box 507  
Dripping Springs, Texas 78620

Kenneth Cone  
P.O. Box 11310  
Midland, Texas 79702

Randy Lee Cone  
P.O. Box 552  
Jay, Oklahoma 74346

Kayla Cone  
P.O. Box 746  
Fayetteville, AR 72702

Karen Cone  
P.O. Box 8351  
Fayetteville, AR 72703

Auvenshine Children's Test, Trust  
u/w/o Kathleen Cone  
Cathie Cone Auvenshine, Trustee  
P.O. Box 507  
Dripping Springs, Texas 78620

Trust u/w/o Kathleen Cone  
fbo Children of Kenneth Cone  
Kenneth Cone, Trustee  
P.O. Box 11310  
Midland, Texas 79702

Trust u/w/o Kathleen Cone  
fbo Children of Clifford Cone  
Clifford Cone, Trustee  
P.O. Drawer 1629  
Lovington, New Mexico 88260

Occidental Petroleum Corp.  
P.O. Box 27757  
Houston, Texas 77046

CRJ Resources, LLC  
5908 Los Hermanos Ct. NE  
Albuquerque, New Mexico 87111

L.M. Robinson, LLC  
P.O. Box 847  
Ruidoso, New Mexico 88355

Herring's Carter Minerals, LLC  
P.O. Box 2036  
Roswell, New Mexico 88202

Carter Legacy LLC  
5331 85<sup>th</sup> Street  
Lubbock, Texas 79424

Bryan Murphy Dye  
6517 Louise Pl. NE  
Albuquerque, New Mexico 87109

Debra D. Dye  
P.O. Box 834  
LaPorte, Texas 77572

David Fred Carr  
6401 Mount Ada Rd. # 143  
San Diego, California 92111

Robinson Sixth Lake Trust  
Patrick A. Robinson and  
Sandra Barnard, Co-Trustees  
29 Dairy Farm Rd.  
Brookfield, CT 06804

Charles W. Oliphant  
1437 S. Boulder Ave. #1250  
Tulsa, Oklahoma 74119

Allen C. Oliphant, Jr.  
1437 S. Boulder Ave. #1250  
Tulsa, Oklahoma 74119

Allene C. Mayo  
1437 S. Boulder Ave. #1250  
Tulsa, Oklahoma 74119

Occidental Permian, Ltd.  
Form C-108: Application to Amend PMX-89

**Tract 2 (Cont.)**

Gertrude O. Sundgren  
1437 S. Boulder Ave. #1250  
Tulsa, Oklahoma 74119

Ceja Corp.  
1437 S. Boulder Ave. #1250  
Tulsa, Oklahoma 74119

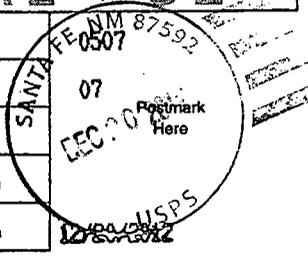
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Sent **Southern Cross Alliance, LLC**  
 Street, Apt. No. or PO Box No. **P.O. Box 777**  
 City, State, ZIP+4 **Davis, Oklahoma 73030**

PS Form 3800, August 2006 See Reverse for Instructions

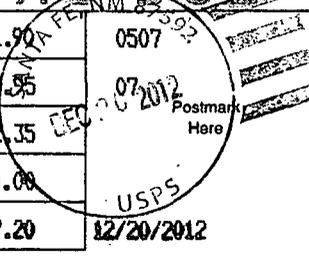
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Sent **Healey, LP**  
 Street, Apt. No. or PO Box No. **P.O. Box 2120**  
 City, State, ZIP+4 **Ardmore, Oklahoma 73402**

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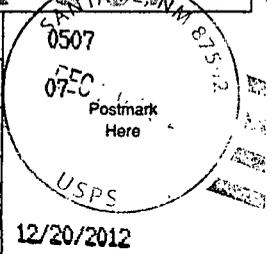
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Sent **Wentz Production, LLC**  
 Street, Apt. No. or PO Box No. **P.O. Box 834**  
 City, State, ZIP+4 **Ardmore, Oklahoma 73030**

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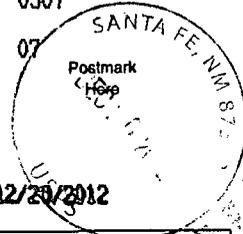
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 City, State, ZIP+4 **Jay, Oklahoma 74346**

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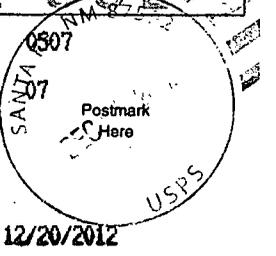
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Sent To **Carter Legacy, LLC**  
 Street, Apt. No. or PO Box No. **5331 85<sup>th</sup> Street**  
 City, State, ZIP+4 **Lubbock, Texas 79424**

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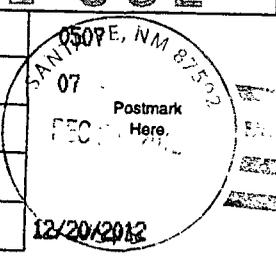
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 Street, Apt. No. or PO Box No. **P.O. Box 746**  
 City, State, ZIP+4 **Fayetteville, AR 72702**

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 Street, Apt. No. or PO Box No. **6401 Mount Ada Rd. # 143**  
 City, State, ZIP+4 **San Diego, California 92111**

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 Street, Apt. No. or PO Box No. **29 Dairy Farm Rd.**  
 City, State, ZIP+4 **Brookfield, CT 06804**

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Sent To **Crawford Culp**  
 Street, Apt. No. or PO Box No. **4511 Arriba Dr.**  
 City, State, ZIP+4 **Hobbs, New Mexico 88240**

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Sent To **Estate of Kathleen Hallin c/o Eric Hallin**  
 Street, Apt. No. or PO Box No. **1320 S. Commerce St., TRLR 52**  
 City, State, ZIP+4 **Ardmore, Oklahoma 73401**

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 DEC 20 2012  
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 CORONADO

Sent To **W.H.T., LLC**  
 Street, Apt. No. or PO Box No. **258 Compound Rd.**  
 City, State, ZIP+4 **Ardmore, Oklahoma 73401**

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 CORONADO

Sent To **Burke Lewis Healey**  
 Street, Apt. No. or PO Box No. **9512 Red Mountain Road**  
 City, State, ZIP+4 **Livermore, Colorado 80536**

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<b>Total Postage &amp; Fees</b>	<b>\$ 7.20</b>

Sent To  
**Charles W. Oliphant**  
 Street, Zip, or PO Box No.  
**1437 S. Boulder Ave., #1250**  
 City, State, ZIP+4®  
**Tulsa, Oklahoma 74119**

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Sent To  
**Kenneth Cone**  
 Street, Zip, or PO Box No.  
**P.O. Box 11310**  
 City, State, ZIP+4®  
**Midland, Texas 79702**

PS Form 3800, August 2006 See Reverse for Instructions

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Certified Fee	\$ 2.95
Return Receipt Fee (Endorsement Required)	\$ 2.35
Restricted Delivery Fee (Endorsement Required)	\$ 0.00
<b>Total Postage &amp; Fees</b>	<b>\$ 7.20</b>

Sent To  
**Cathie Cone Auvenshine**  
 Street, Zip, or PO Box No.  
**P.O. Box 507**  
 City, State, ZIP+4®  
**Dripping Springs, Texas 78620**

PS Form 3800, August 2006 See Reverse for Instructions

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Return Receipt Fee (Endorsement Required)	\$ 2.35
Restricted Delivery Fee (Endorsement Required)	\$ 0.00
<b>Total Postage &amp; Fees</b>	<b>\$ 7.20</b>

Sent To  
**Clifford Cone**  
 Street, Zip, or PO Box No.  
**P.O. Drawer 1629**  
 City, State, ZIP+4®  
**Louington, New Mexico 88260**

PS Form 3800, August 2006 See Reverse for Instructions

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**OFFICIAL USE**  
 DENVER CO 80217

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Certified Fee	\$ 2.95
Return Receipt Fee (Endorsement Required)	\$ 2.35
Restricted Delivery Fee (Endorsement Required)	\$ 0.00
<b>Total Postage &amp; Fees</b>	<b>\$ 7.20</b>

Sent To  
**Sylvie Bryce Trusts u/w/o**  
**Ariel Bryce Appleton Trusts u/w/o**  
 Street, Zip, or PO Box No.  
**Wells Fargo Bank, NA, Trustee**  
**P.O. Box 5383**  
 City, State, ZIP+4®  
**Denver, Colorado 80217**

PS Form 3800, August 2006 See Reverse for Instructions

7012 0470 0001 5936 2034

U.S. Postal Service™  
**CERTIFIED MAIL™ RECEIPT**  
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For delivery information visit our website at [www.usps.com](http://www.usps.com)

**OFFICIAL USE**  
 FORT WORTH TX 76102

Postage	\$ 1.90
Certified Fee	\$ 2.95
Return Receipt Fee (Endorsement Required)	\$ 2.35
Restricted Delivery Fee (Endorsement Required)	\$ 0.00
<b>Total Postage &amp; Fees</b>	<b>\$ 7.20</b>

Sent To  
**Texland Petroleum Hobbs, LLC**  
 Street, Zip, or PO Box No.  
**707 Main Street, Suite 3200**  
 City, State, ZIP+4®  
**Fort Worth, Texas 76102**

PS Form 3800, August 2006 See Reverse for Instructions

7012 0470 0001 5936 2072

U.S. Postal Service™  
**CERTIFIED MAIL™ RECEIPT**  
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For delivery information visit our website at [www.usps.com](http://www.usps.com).

**DALLAS TX 75283 OFFICIAL USE**

Postage	\$ 2.46	0501 USPS SANTA FE, NM 375 Postmark Here DEC 20 2012 CORONADO STATION
Certified Fee	\$2.95	
Return Receipt Fee (Endorsement Required)	\$2.35	
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$ 7.76	

Sent To **Jessie B. Crump Family Trust**  
**Bank of America, NA, Trustee**  
 P.O. Box 830308  
 Dallas, Texas 75283

PS Form 3800, August 2006 See Reverse for Instructions

7012 0470 0001 5936 2089

U.S. Postal Service™  
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For delivery information visit our website at [www.usps.com](http://www.usps.com).

**HOUSTON TX 77056 OFFICIAL USE**

Postage	\$ 2.46	0501 USPS SANTA FE, NM 375 Postmark Here DEC 20 2012 CORONADO STATION
Certified Fee	\$2.95	
Return Receipt Fee (Endorsement Required)	\$2.35	
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$ 7.76	

Sent To **Apache Corp.**  
**2000 Post Oak Blvd.**  
 Suite 100  
 Houston, Texas 77056

PS Form 3800, August 2006 See Reverse for Instructions

7012 0470 0001 5936 2096

U.S. Postal Service™  
**CERTIFIED MAIL™ RECEIPT**  
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For delivery information visit our website at [www.usps.com](http://www.usps.com).

**PALM DESERT CA 92260 OFFICIAL USE**

Postage	\$ 2.46	0501 USPS SANTA FE, NM 375 Postmark Here DEC 20 2012 CORONADO STATION
Certified Fee	\$2.95	
Return Receipt Fee (Endorsement Required)	\$2.35	
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$ 7.76	

Sent To **Black Gold Estates, LLC**  
**c/o Hubbard Enterprises, Inc.**  
 2980 Fred Waring Dr., Suite B  
 Palm Desert, CA 92260

PS Form 3800, August 2006 See Reverse for Instructions

7012 0470 0001 5936 2102

U.S. Postal Service™  
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For delivery information visit our website at [www.usps.com](http://www.usps.com).

**MIDLAND TX 79705 OFFICIAL USE**

Postage	\$ 2.46	0501 USPS SANTA FE, NM 375 Postmark Here DEC 20 2012 CORONADO STATION
Certified Fee	\$2.95	
Return Receipt Fee (Endorsement Required)	\$2.35	
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$ 7.76	

Sent To **Chevron USA, Inc.**  
**15 Smith Road**  
 Midland, Texas 79705

PS Form 3800, August 2006 See Reverse for Instructions

7012 0470 0001 5936 1778

U.S. Postal Service™  
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For delivery information visit our website at [www.usps.com](http://www.usps.com).

**ALBUQUERQUE NM 87109 OFFICIAL USE**

Postage	\$ 1.90	0501 USPS SANTA FE, NM 375 Postmark Here DEC 20 2012 CORONADO STATION
Certified Fee	\$2.95	
Return Receipt Fee (Endorsement Required)	\$2.35	
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$ 7.20	

Sent To **Bryan Murphy Dye**  
**6517 Louise Pl., NE**  
 Albuquerque, New Mexico 87109

PS Form 3800, August 2006 See Reverse for Instructions

7012 0470 0001 5936 1761

U.S. Postal Service™  
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For delivery information visit our website at [www.usps.com](http://www.usps.com).

**LA PORTE TX 77572 OFFICIAL USE**

Postage	\$ 1.90	0501 USPS SANTA FE, NM 375 Postmark Here DEC 20 2012 CORONADO STATION
Certified Fee	\$2.95	
Return Receipt Fee (Endorsement Required)	\$2.35	
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$ 7.20	

Sent To **Debra D. Dye**  
**P.O. Box 834**  
 LaPorte, Texas 77572

PS Form 3800, August 2006 See Reverse for Instructions

7012 0470 0001 5936 1129

U.S. Postal Service™  
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For delivery information visit our website at [www.usps.com](http://www.usps.com)

ALBANY TX 76430 **OFFICIAL USE**

Postage	\$ 2.46	0501
Certified Fee	\$ 2.95	05
Return Receipt Fee (Endorsement Required)	\$ 2.35	Postmark Here DEC 20 2012
Restricted Delivery Fee (Endorsement Required)	\$ 0.00	12/20/2012
Total Postage & Fees	\$ 7.76	

Sent To **H. R. Stasney & Sons, Ltd.**  
 Street, Apt. No., or PO Box No. **P.O. Box 3190**  
 City, State, ZIP+4 **Albany, Texas 76430**

PS Form 3800, August 2006 See Reverse for Instructions

7012 0470 0001 5936 1136

U.S. Postal Service™  
**CERTIFIED MAIL™ RECEIPT**  
 (Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at [www.usps.com](http://www.usps.com)

ALBANY TX 76430 **OFFICIAL USE**

Postage	\$ 2.46	0501
Certified Fee	\$ 2.95	05
Return Receipt Fee (Endorsement Required)	\$ 2.35	Postmark Here DEC 20 2012
Restricted Delivery Fee (Endorsement Required)	\$ 0.00	12/20/2012
Total Postage & Fees	\$ 7.76	

Sent To **Mack H. Woolridge**  
 Street, Apt. No., or PO Box No. **P.O. Box 3217**  
 City, State, ZIP+4 **Albany, Texas 76430**

PS Form 3800, August 2006 See Reverse for Instructions

7012 0470 0001 5936 1143

U.S. Postal Service™  
**CERTIFIED MAIL™ RECEIPT**  
 (Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at [www.usps.com](http://www.usps.com)

MIDLAND TX 79705 **OFFICIAL USE**

Postage	\$ 2.46	0501
Certified Fee	\$ 2.95	05
Return Receipt Fee (Endorsement Required)	\$ 2.35	Postmark Here DEC 20 2012
Restricted Delivery Fee (Endorsement Required)	\$ 0.00	12/20/2012
Total Postage & Fees	\$ 7.76	

Sent To **ConocoPhillips Company**  
 Street, Apt. No., or PO Box No. **3300 N. "A" Street, Bldg. 6**  
 City, State, ZIP+4 **Midland, Texas 79705-5490**

PS Form 3800, August 2006 See Reverse for Instructions

7012 0470 0001 5936 1150

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For delivery information visit our website at [www.usps.com](http://www.usps.com)

CARSON CITY NV 89702 **OFFICIAL USE**

Postage	\$ 2.46	0501
Certified Fee	\$ 2.95	05
Return Receipt Fee (Endorsement Required)	\$ 2.35	Postmark Here DEC 20 2012
Restricted Delivery Fee (Endorsement Required)	\$ 0.00	12/20/2012
Total Postage & Fees	\$ 7.76	

Sent To **Injection Engineering Services**  
 Street, Apt. No., or PO Box No. **Profit Sharing Trust**  
 City, State, ZIP+4 **Walter O. Ford-Trustee**  
**P.O. Box 4050**  
**Santa Fe, New Mexico 89702**

PS Form 3800, August 2006 See Reverse for Instructions

7012 0470 0001 5936 1167

U.S. Postal Service™  
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For delivery information visit our website at [www.usps.com](http://www.usps.com)

ROSWELL NM 88201 **OFFICIAL USE**

Postage	\$ 2.46	0501
Certified Fee	\$ 2.95	05
Return Receipt Fee (Endorsement Required)	\$ 2.35	Postmark Here DEC 20 2012
Restricted Delivery Fee (Endorsement Required)	\$ 0.00	12/20/2012
Total Postage & Fees	\$ 7.76	

Sent To **Perry Glynn Gregory**  
 Street, Apt. No., or PO Box No. **503 W. Vista Pkwy.**  
 City, State, ZIP+4 **Roswell, New Mexico 88201**

PS Form 3800, August 2006 See Reverse for Instructions

7012 0470 0001 5936 2065

U.S. Postal Service™  
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For delivery information visit our website at [www.usps.com](http://www.usps.com)

FORT WORTH TX 76113 **OFFICIAL USE**

Postage	\$ 2.46	0501
Certified Fee	\$ 2.95	05
Return Receipt Fee (Endorsement Required)	\$ 2.35	Postmark Here DEC 20 2012
Restricted Delivery Fee (Endorsement Required)	\$ 0.00	12/20/2012
Total Postage & Fees	\$ 7.76	

Sent To **Joe & Jessie Crump Fund**  
 Street, Apt. No., or PO Box No. **Bank One Texas, NA, Trustee**  
 City, State, ZIP+4 **P.O. Box 2605**  
**Fort Worth, Texas 76113**

PS Form 3800, August 2006 See Reverse for Instructions

7012 0470 0001 5936 2027

U.S. Postal Service™  
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For delivery information visit our website at [www.usps.com](http://www.usps.com)

LEAKEY TX 78873 **OFFICIAL USE**

Postage	\$ 2.46
Certified Fee	\$2.95
Return Receipt Fee (Endorsement Required)	\$2.35
Restricted Delivery Fee (Endorsement Required)	\$0.00
<b>Total Postage &amp; Fees</b>	<b>\$ 7.76</b>

0501  
 05  
 Postmark  
**DEC 20 2012**  
 COLO SPRINGS STATION

Sent To  
**Sheryl Ann Miller**  
 P.O. Box 1049  
 Leakey, Texas 78873

PS Form 3800, August 2006 See Reverse for Instructions

U.S. Postal Service™  
**CERTIFIED MAIL™ RECEIPT**  
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For delivery information visit our website at [www.usps.com](http://www.usps.com)

COLORADO SPRINGS CO 80906 **OFFICIAL USE**

Postage	\$ 2.46
Certified Fee	\$2.95
Return Receipt Fee (Endorsement Required)	\$2.35
Restricted Delivery Fee (Endorsement Required)	\$0.00
<b>Total Postage &amp; Fees</b>	<b>\$ 7.76</b>

0501  
 05  
 Postmark  
 Here  
**DEC 20 2012**  
 COLO SPRINGS STATION

Sent To  
**Virginia A. Marting**  
**Revocable Trust**  
 1500 W. Cheyenne Rd.  
 Colorado Springs, Colorado 80906

PS Form 3800, August 2006 See Reverse for Instructions

7012 0470 0001 5936 1082

U.S. Postal Service™  
**CERTIFIED MAIL™ RECEIPT**  
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For delivery information visit our website at [www.usps.com](http://www.usps.com)

LOS ANGELES-CA 90071 **OFFICIAL USE**

Postage	\$ 2.46
Certified Fee	\$2.95
Return Receipt Fee (Endorsement Required)	\$2.35
Restricted Delivery Fee (Endorsement Required)	\$0.00
<b>Total Postage &amp; Fees</b>	<b>\$ 7.76</b>

0501  
 05  
 Postmark  
 Here  
**DEC 20 2012**  
 COLO SPRINGS STATION

Sent To  
**Jean D. Beckwith Trust**  
**James D. Schmidt, Trustee**  
 515 S. Figueroa St.  
 Los Angeles, CA 90071

PS Form 3800, August 2006 See Reverse for Instructions

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For delivery information visit our website at [www.usps.com](http://www.usps.com)

DALLAS TX 75238 **OFFICIAL USE**

Postage	\$ 2.46
Certified Fee	\$2.95
Return Receipt Fee (Endorsement Required)	\$2.35
Restricted Delivery Fee (Endorsement Required)	\$0.00
<b>Total Postage &amp; Fees</b>	<b>\$ 7.76</b>

0501  
 05  
 Postmark  
 Here  
**DEC 20 2012**  
 COLO SPRINGS STATION

Sent To  
**Winifred Witwer Edwards Trust**  
**Bank of America, NA, Trustee**  
 P.O. Box 830308  
 Dallas, Texas 75238

PS Form 3800, August 2006 See Reverse for Instructions

7012 0470 0001 5936 1105

U.S. Postal Service™  
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For delivery information visit our website at [www.usps.com](http://www.usps.com)

TULSA OK-74101 **OFFICIAL USE**

Postage	\$ 2.46
Certified Fee	\$2.95
Return Receipt Fee (Endorsement Required)	\$2.35
Restricted Delivery Fee (Endorsement Required)	\$0.00
<b>Total Postage &amp; Fees</b>	<b>\$ 7.76</b>

0501  
 05  
 Postmark  
**DEC 20 2012**  
 COLO SPRINGS STATION

Sent To  
**Louis H. Witwer III Trust**  
**Louis H. Witwer III, Trustee**  
 P.O. Box 2453  
 Tulsa, Oklahoma 74101

PS Form 3800, August 2006 See Reverse for Instructions

U.S. Postal Service™  
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*(Domestic Mail Only; No Insurance Coverage Provided)*

For delivery information visit our website at [www.usps.com](http://www.usps.com)

OKLAHOMA CITY OK 73154 **OFFICIAL USE**

Postage	\$ 2.46
Certified Fee	\$2.95
Return Receipt Fee (Endorsement Required)	\$2.35
Restricted Delivery Fee (Endorsement Required)	\$0.00
<b>Total Postage &amp; Fees</b>	<b>\$ 7.76</b>

0501  
 05  
 Postmark  
 Here  
**DEC 20 2012**  
 COLO SPRINGS STATION

Sent To  
**Chieftan Royalty Company**  
 P.O. Box 18441  
 Oklahoma City, Oklahoma 73154

PS Form 3800, August 2006 See Reverse for Instructions

7012 0470 0001 5936 1962

U.S. Postal Service™  
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For delivery information visit our website at [www.usps.com](http://www.usps.com)

**OFFICIAL USE**

Postage	\$ 2.46	0501 05 Postmark Here DEC 20 2012 CORONADO STATION
Certified Fee	\$2.95	
Return Receipt Fee (Endorsement Required)	\$2.35	
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$ 7.76	

Sent To **Revocable Trust**  
 Street, Apt. No., or PO Box No. **Roy G. Barton Jr., Trustee**  
 City, State, ZIP+4 **1019 North Turner St.  
 Hobbs, New Mexico 88240**

PS Form 3800, August 2006 See Reverse for Instructions

7012 0470 0001 5936 1976

U.S. Postal Service™  
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For delivery information visit our website at [www.usps.com](http://www.usps.com)

**OFFICIAL USE**

Postage	\$ 2.46	0501 05 Postmark Here DEC 20 2012 CORONADO STATION
Certified Fee	\$2.95	
Return Receipt Fee (Endorsement Required)	\$2.35	
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$ 7.76	

Sent To **Pacific Enterprises ABC Corp.**  
 Street, Apt. No., or PO Box No. **3131-Turtle-Creek Blvd.**  
 City, State, ZIP+4 **Dallas, Texas 75219**

PS Form 3800, August 2006 See Reverse for Instructions

7012 0470 0001 5936 1982

U.S. Postal Service™  
**CERTIFIED MAIL™ RECEIPT**  
 (Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at [www.usps.com](http://www.usps.com)

**OFFICIAL USE**

Postage	\$ 2.46	0501 05 Postmark Here DEC 20 2012 CORONADO STATION
Certified Fee	\$2.95	
Return Receipt Fee (Endorsement Required)	\$2.35	
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$ 7.76	

Sent To **Realeza Del Spear, LP**  
 Street, Apt. No., or PO Box No. **P.O. Box 1684**  
 City, State, ZIP+4 **Midland, Texas 79701**

PS Form 3800, August 2006 See Reverse for Instructions

7012 0470 0001 5936 1990

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For delivery information visit our website at [www.usps.com](http://www.usps.com)

**OFFICIAL USE**

Postage	\$ 2.46	0501 05 Postmark Here DEC 20 2012 CORONADO STATION
Certified Fee	\$2.95	
Return Receipt Fee (Endorsement Required)	\$2.35	
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$ 7.76	

Sent To **Carter Family Minerals, LLC**  
 Street, Apt. No., or PO Box No. **P.O. Box 328**  
 City, State, ZIP+4 **Fort Sumner, New Mexico 88119**

PS Form 3800, August 2006 See Reverse for Instructions

7012 0470 0001 5936 2002

U.S. Postal Service™  
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For delivery information visit our website at [www.usps.com](http://www.usps.com)

**OFFICIAL USE**

Postage	\$ 2.46	0501 05 Postmark Here DEC 20 2012 CORONADO STATION
Certified Fee	\$2.95	
Return Receipt Fee (Endorsement Required)	\$2.35	
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$ 7.76	

Sent To **Leede-Operating Co., LLC**  
 Street, Apt. No., or PO Box No. **2100 Plaza Tower One**  
 City, State, ZIP+4 **6400 South Fiddlers Green Circle  
 Englewood, Colorado 80111**

PS Form 3800, August 2006 See Reverse for Instructions

7012 0470 0001 5936 2010

U.S. Postal Service™  
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For delivery information visit our website at [www.usps.com](http://www.usps.com)

**OFFICIAL USE**

Postage	\$ 2.46	0501 05 Postmark Here DEC 20 2012 CORONADO STATION
Certified Fee	\$2.95	
Return Receipt Fee (Endorsement Required)	\$2.35	
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$ 7.76	

Sent To **Denbury Resources, Inc.**  
 Street, Apt. No., or PO Box No. **5320 Legacy Drive**  
 City, State, ZIP+4 **Plano, Texas 75024**

PS Form 3800, August 2006 See Reverse for Instructions

7012 0470 0001 5936 1822

U.S. Postal Service™  
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For delivery information visit our website at [www.usps.com](http://www.usps.com)

**OFFICIAL USE**  
FAYETTEVILLE AR 72703

Postage	\$ 1.90
Certified Fee	\$2.95
Return Receipt Fee (Endorsement Required)	\$2.35
Restricted Delivery Fee (Endorsement Required)	\$0.00
<b>Total Postage &amp; Fees</b>	<b>\$ 07.20</b>



12/20/2012

**Sent To:**  
**Karen Cone**  
**P.O. Box 8351**  
 or PO Box No.  
**Fayetteville, AR 72703**  
 City, State, ZIP+4

PS Form 3800, August 2006 See Reverse for Instructions

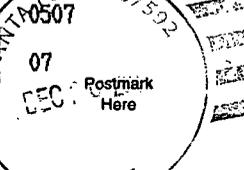
7012 0470 0001 5936 1815

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For delivery information visit our website at [www.usps.com](http://www.usps.com)

**OFFICIAL USE**  
ALBUQUERQUE NM 87111

Postage	\$ 1.90
Certified Fee	\$2.95
Return Receipt Fee (Endorsement Required)	\$2.35
Restricted Delivery Fee (Endorsement Required)	\$0.00
<b>Total Postage &amp; Fees</b>	<b>\$ 07.20</b>



12/20/2012

**Sent To:**  
**CRJ Resources, LLC**  
**5908 Los Hermanos Ct. NE**  
 or PO Box No.  
**Albuquerque, New Mexico 87111**  
 City, State, ZIP+4

PS Form 3800, August 2006 See Reverse for Instructions

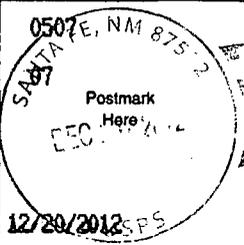
7012 0470 0001 5936 1846

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(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at [www.usps.com](http://www.usps.com)

**OFFICIAL USE**  
JAY OK 74346

Postage	\$ 1.90
Certified Fee	\$2.95
Return Receipt Fee (Endorsement Required)	\$2.35
Restricted Delivery Fee (Endorsement Required)	\$0.00
<b>Total Postage &amp; Fees</b>	<b>\$ 07.20</b>



12/20/2012

**Sent To:**  
**Randy Lee Cone**  
**P.O. Box 552**  
 or PO Box No.  
**Jay, Oklahoma 74346**  
 City, State, ZIP+4

PS Form 3800, August 2006 See Reverse for Instructions

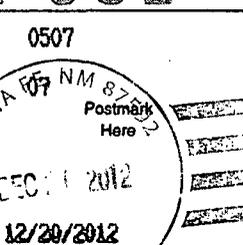
7012 0470 0001 5936 1808

U.S. Postal Service™  
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(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at [www.usps.com](http://www.usps.com)

**OFFICIAL USE**  
RUIDOSO NM 88355

Postage	\$ 1.90
Certified Fee	\$2.95
Return Receipt Fee (Endorsement Required)	\$2.35
Restricted Delivery Fee (Endorsement Required)	\$0.00
<b>Total Postage &amp; Fees</b>	<b>\$ 07.20</b>



12/20/2012

**Sent To:**  
**E.M. Robinson, LLC**  
**P.O. Box 847**  
 or PO Box No.  
**Ruidoso, New Mexico 88355**  
 City, State, ZIP+4

PS Form 3800, August 2006 See Reverse for Instructions

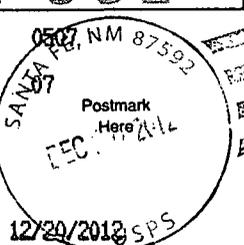
7012 0470 0001 5936 1792

U.S. Postal Service™  
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For delivery information visit our website at [www.usps.com](http://www.usps.com)

**OFFICIAL USE**  
ROSWELL NM 88202

Postage	\$ 1.90
Certified Fee	\$2.95
Return Receipt Fee (Endorsement Required)	\$2.35
Restricted Delivery Fee (Endorsement Required)	\$0.00
<b>Total Postage &amp; Fees</b>	<b>\$ 07.20</b>



12/20/2012

**Sent To:**  
**Herring's Carter Minerals, LLC**  
**P.O. Box 2036**  
 or PO Box No.  
**Roswell, New Mexico 88202**  
 City, State, ZIP+4

PS Form 3800, August 2006 See Reverse for Instructions

Form C-108  
Occidental Permian, Ltd.  
Application to Amend Order No. PMX-89  
North Hobbs G/SA Unit Well No. 431  
Section 13, T-18S, R-37E  
Lea County, New Mexico

*Legal notice will be published in the:*

*Hobbs News Sun  
201 N. Thorp  
Hobbs, New Mexico 88240*

*A copy of the legal advertisement will be forwarded to the Division upon publication.*

**Occidental Permian, Ltd. P.O. Box 4294, Houston, Texas 77210 has filed a Form C-108 (Application for Authorization to Inject) with the Oil Conservation Division seeking administrative approval to amend Division Order No. PMX-89. This order authorized Occidental Permian, Ltd. to inject water into the Grayburg-San Andres formation, Hobbs Grayburg-San Andres Pool within the North Hobbs G/SA Unit Well No. 431 as part of the North Hobbs Grayburg San Andres Unit Pressure Maintenance Project. Occidental is now seeking approval to inject carbon dioxide and produced gas within this well, further described as follows:**

**North Hobbs G/SA Unit No. 431 (API No. 30-025-05445) 1640' FSL & 1000' FEL (I) Section 13, T-18S, R-37E: Proposed Injection Interval: 4,000'-4,365' (Perforated & Open-Hole);**

**Produced water from the Hobbs Grayburg-San Andres Pool, CO<sub>2</sub> and produced gas will be injected into the wells at a maximum rate of 9,000 barrels of water per day and 15,000 MCF gas per day. The maximum surface injection pressure is anticipated to be 1100 psi for water injection, 1250 psi for CO<sub>2</sub> injection and 1770 psi for produced gas injection.**

**Interested parties must file objections with the New Mexico Oil Conservation Division, 1220 S. St Francis Drive, Santa Fe, New Mexico 87505, within 15 days of the date of this publication.**

**Additional information can be obtained by contacting Mr. David Catanach, Agent-Occidental Permian, Ltd. at (505) 690-9453.**

**Jones, William V., EMNRD**

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**From:** David Catanach <drcatanach@netscape.com>  
**Sent:** Sunday, December 30, 2012 11:20 AM  
**To:** Jones, William V., EMNRD  
**Subject:** Publication Notice  
**Attachments:** Oxy Publication Notice.pdf

Will,

Attached is the publication notice for the recently filed PMX application for Oxy's NHGSAU No. 431.

If additional information is needed, let me know.

Happy New Year,

David

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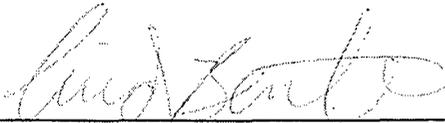
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# Affidavit of Publication

State of New Mexico,  
County of Lea.

I, CINDY BENTLE  
ADMINISTRATIVE ASSISTANT  
of the Hobbs News-Sun, a  
newspaper published at Hobbs, New  
Mexico, do solemnly swear that the  
clipping attached hereto was  
published in the regular and entire  
issue of said newspaper, and not a  
supplement thereof for a period

of 1 issue(s).  
Beginning with the issue dated  
December 22, 2012  
and ending with the issue dated  
December 22, 2012



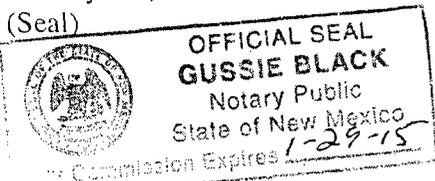
ADMINISTRATIVE ASSISTANT  
Sworn and subscribed to before me  
this 26th day of  
December, 2012



Notary Public

My commission expires  
January 29, 2015

(Seal)



This newspaper is duly qualified to  
publish legal notices or  
advertisements within the meaning of  
Section 3, Chapter 167, Laws of  
1937 and payment of fees for said  
publication has been made.



Legal Notice  
December 22, 2012

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Grayburg San Andres Unit Pressure Maintenance Project.  
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publication.

Additional information can be obtained by contacting Mr.  
David Catanach, Agent-Occidental Permian, Ltd. at (505)  
690-9453.  
#27800

67109591                      00106474  
DAVID CATANACH  
REGULATORY CONSULTANT  
1142 VUELTA DE LAS ACEQUIAS  
SANTA FE, NM 87507