

ABOVE THIS LINE FOR DIVISION USE ONLY

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



30-025-05478
 North Hobbs G/SA Unit #422
 30-025-07364
 North Hobbs G/SA Unit #241
 Occidental - Permian

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]

- [1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]
- [A] Location - Spacing Unit - Simultaneous Dedication
 NSL NSP SD
- Check One Only for [B] or [C]
- [B] Commingling - Storage - Measurement
 DHC CTB PLC PC OLS OLM
- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
 WFX PMX * SWD IPI EOR PPR
- [D] Other: Specify Amend Order No. PMX-204 & permit for injection the North Hobbs G/SA Unit Well No. 241

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- [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

3/8/13
 Date

drcatanach@netscape.com
 E-Mail Address

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.
- 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: 3/8/13

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

March 8, 2013

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-204
North Hobbs G/SA Unit No. 422 (API No. 30-025-05478)
2310' FNL & 330' FEL, Unit H, Section 24, T-18S, R-37E

Application for Authorization to Inject
North Hobbs G/SA Unit No. 241 (API No. 30-025-07364)
330' FSL & 2310' FWL, Unit N, Section 19, T-18S, R-38E
Both in 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. The area within the Unit approved for tertiary recovery operations was defined by this order and designated the "Phase I Area" (see attached map).

By this application, Occidental is seeking administrative approval to:

1) Amend Division Order No. PMX-204 dated July 11, 2000 to authorize the injection of **CO2 and produced gas** within the above-described North Hobbs G/SA Unit No. 422. This well is currently authorized by Order No. PMX-204 for water injection only. In addition, Occidental is seeking approval to expand the injection interval in this well to include the perforated interval from 3,900 feet to 4,310 feet (**Note: PMX-204 authorized injection into the interval from 4,130 feet to 4,254 feet**).

2) Convert the above-described North Hobbs G/SA Unit No. 241 from a producing well to an injection well. **Occidental also seeks approval to inject water, CO2 and produced gas within this well.**

Both the North Hobbs G/SA Unit Wells No. 241 and 422 are located within the Phase I Tertiary Recovery Project Area.

I believe that all the information necessary to approve the requested amendment and permit the North Hobbs G/SA Unit No. 241 for injection is enclosed. If additional information is needed, please contact me at (505) 690-9453.

Form C-108
Application to Amend PMX-204
Application for Authorization to Inject
Occidental Permian Ltd.
March 8, 2013
Page 2

Sincerely,



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

Xc: OCD-Hobbs

III. WELL DATA

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

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

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

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

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

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

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

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

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

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

C-108 Application
Occidental Permian Ltd.
Application to Amend Division Order No. PMX-204
Application for Authorization to Inject
North Hobbs G/SA Unit Wells No. 241 & 422
Section 19, T-18S, R-38E,
Section 24, T-18S, R-37E,
Lea County, New Mexico

- I. The purpose of the application is to request approval to amend Division Order No. PMX-204 dated July 11, 2000 allowing the injection of CO₂ and produced gas within the following-described well previously permitted for water injection only within the North Hobbs Grayburg San Andres Unit Phase I Tertiary Recovery Project. Occidental also seeks authority to expand the injection interval in this well to include the perforated interval from 3,900 feet to 4,310 feet:

North Hobbs G/SA Unit No. 422 (API No. 30-025-05478) 2310' FNL & 330' FEL (Unit H) Section 24, T-18S, R-37E.

Occidental further requests authority to convert the following-described producing well to injection thereby allowing the injection of water, CO₂ and produced gas within this well:

North Hobbs G/SA Unit No. 241 (API No. 30-025-07364) 330' FSL & 2310' FWL (Unit N) Section 19, T-18S, R-38E.
- II. Occidental Permian Ltd. (157984)
P.O. Box 4294
Houston, Texas 77210
Contact Party: David Catanach-Agent (505) 690-9453
- III. Injection well data sheets and wellbore schematic diagrams are attached.
- IV. This is an expansion of the North Hobbs Grayburg San Andres Unit Phase I Tertiary Recovery Project approved by Division Order No. R-6199-B dated 10/22/2001.
- V. Maps showing all wells/leases within a 2-mile radius of the North Hobbs G/SA Unit Wells No. 241 and 422 are attached. Also attached are more detailed maps showing the ½-mile Area of Review ("AOR") for the North Hobbs G/SA Unit Wells No. 241 and 422.
- VI. Most of the AOR well data relative to these wells was presented to the Division in Case No. 12722 on September 6, 2001 or in subsequent administrative applications. The attached AOR well list shows: i) a list of wells that were presented in Case No. 12722 or in subsequent administrative applications. Since well construction data was previously submitted for these wells, it is not presented in this application; and ii) a list of wells and well construction data for those wells that were drilled subsequent to 2001. This well data indicates that all

subsequently drilled wells within the AOR are constructed 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

Tubing Size: 2 7/8" Lining Material: Duoline (Fiberglass Lined)

Type of Packer: Guiberson-Uni VI Packer

Packer Setting Depth: 4,028' or within 100' of the perforated injection interval

Other Type of Tubing/Casing Seal (if applicable): None

Additional Data

1. Is this a new well drilled for injection: Yes X No

If no, for what purpose was the well originally drilled: Well was originally drilled in 1930 as a producing well in the Hobbs Grayburg-San Andres Pool

2. Name of the Injection Formation: Grayburg-San Andres

3. Name of Field or Pool (if applicable): Hobbs Grayburg-San Andres Pool (31920)

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used.

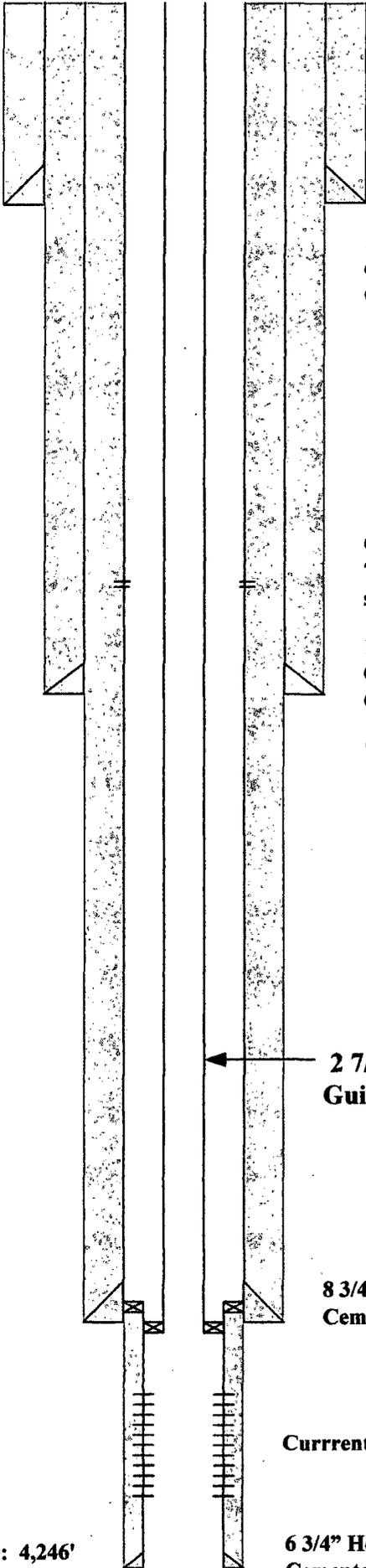
None

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

Bowers-Queen +/- 3,306'; Glorieta +/- 5,410'

**Injection Wellbore Schematic
Proposed Well Configuration**

Occidental Permian Ltd.
North Hobbs G/SA Unit No. 241
API No. 30-025-07364
330' FSL & 2310' FWL (Unit N)
Section 19, T-18 South, R-38 East, NMPM
Lea County, New Mexico
Date Drilled: July, 1930



**16' Hole (Estimated); Set 12 1/2" 50#
csg. @ 246'. Cemented w/200 Sx.
Cement circulated to surface**

**Original TOC @ 2,611' by calc.
7" casing perforated @ 2,625' &
squeeze cemented to surface w/350 sx.**

**12" Hole (Estimated); Set 9 5/8" 40# csg. @ 2,750'
Cemented w/ 600 Sx.
Cement circulated to surface.**

Csg. Leaks @ 2,760'-2,768; squeezed w/300 sx.

Current Wellbore Perforations: 4,128'-4,232'
**Additional perforations from 4,000'-4,246' may be
added at a later time. Consequently, Occidental
requests a permitted injection interval from
4,000'-4,246'**

**2 7/8" Duoline (Fiberglass Lined)
Guiberson-Uni VI Packer @ 4,028'**

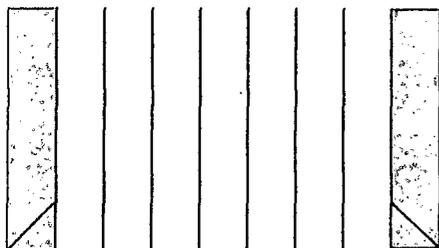
**8 3/4" Hole (Estimated); Set 7" Csg. @ 3,975'
Cemented w/222 Sx. Original TOC @ 2,611 by Calc.**

Current Perforations: 4,128'-4,232'

**6 3/4" Hole (Estimated); Set 5 1/2" Liner 3,936'-4,246'
Cemented w/100 Sx. TOC @ Liner Top**

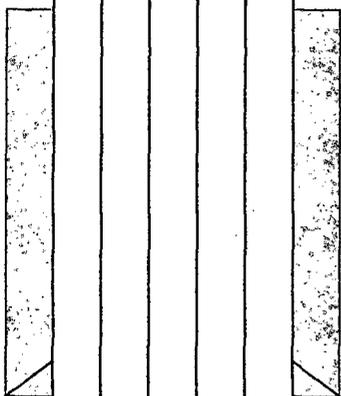
**Injection Wellbore Schematic
Proposed Well Configuration**

Occidental Permian Ltd.
North Hobbs G/SA Unit No. 422
API No. 30-025-05478
2310' FNL & 330' FEL (Unit H)
Section 24, T-18 South, R-37 East, NMPM
Lea County, New Mexico
Date Drilled: August, 1930



16" Hole; Set 13 3/8" csg. @ 217'.
Cemented w/200 Sx.
Cement circulated to surface

TOC @ 1,769' by Calc.



13 3/4" Hole; Set 9 5/8" csg. @ 2,806'
Cemented w/ 600 Sx.
TOC @ 1,769' by Calc.

TOC @ 3,000' by CBL

Current Wellbore Perforations: 4,130'-4,254'
Additional perforations from 3,900'-4,310' may be added at a later time. Consequently, Occidental requests a permitted injection interval from 3,900'-4,310'

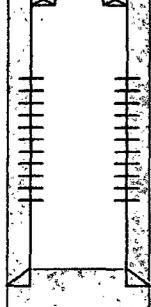
← 2 7/8" Duoline (Fiberglass Lined)
Guiberson-Uni VI Packer @ 4,030'

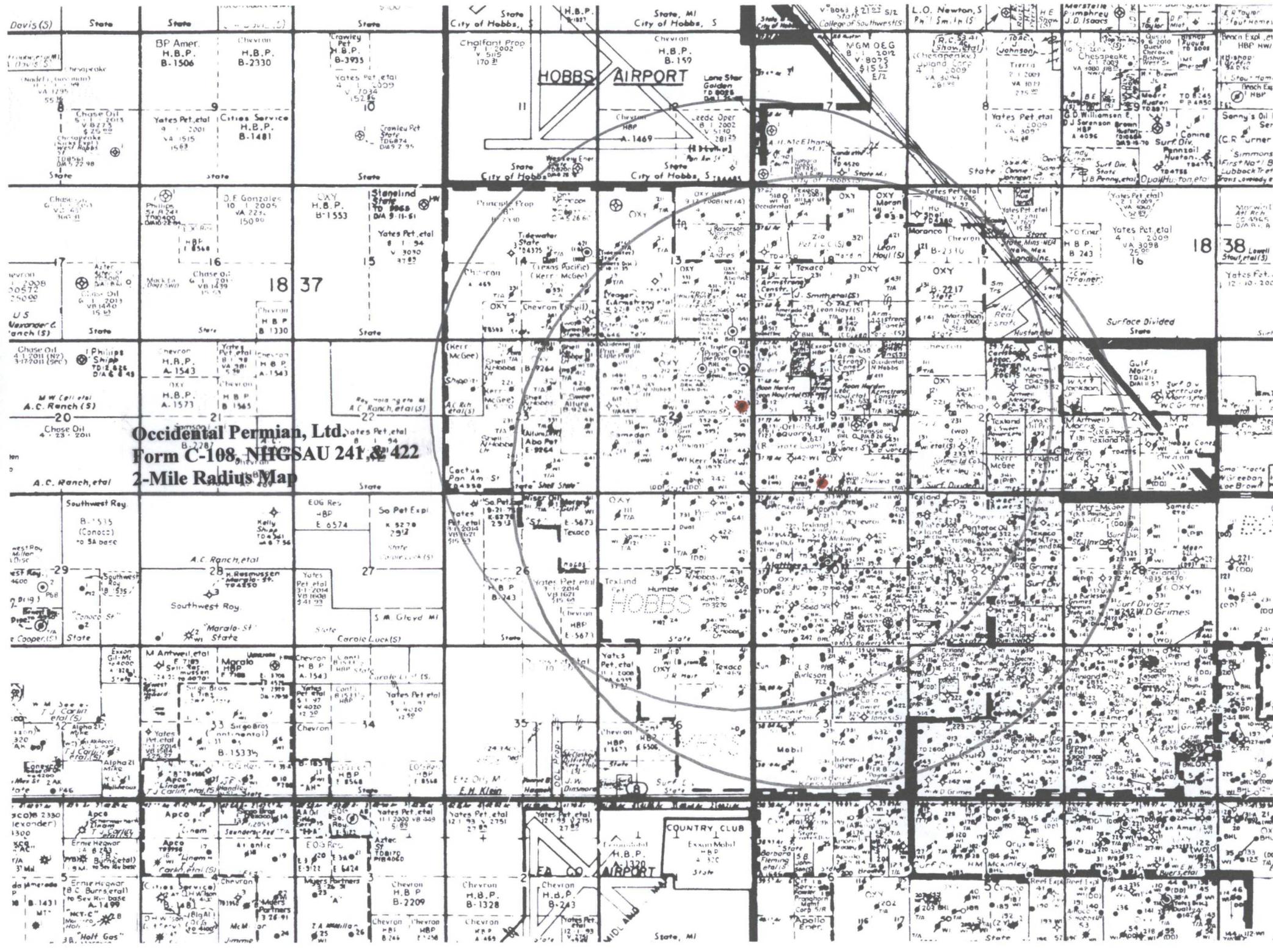
8 1/4" Hole; Set 7" Csg. @ 4,085'
Cemented w/375 Sx. TOC @ 3,000' by CBL

Current Perforations: 4,130'-4,254'

6 3/4" Hole; Set 5 1/2" Liner 3,933'-4,304'
Cemented w/100 Sx. & squeeze cemented w/125 sx.
TOC @ 3,960' by CBL

PBTD: 4,267'
TD: 4,310'





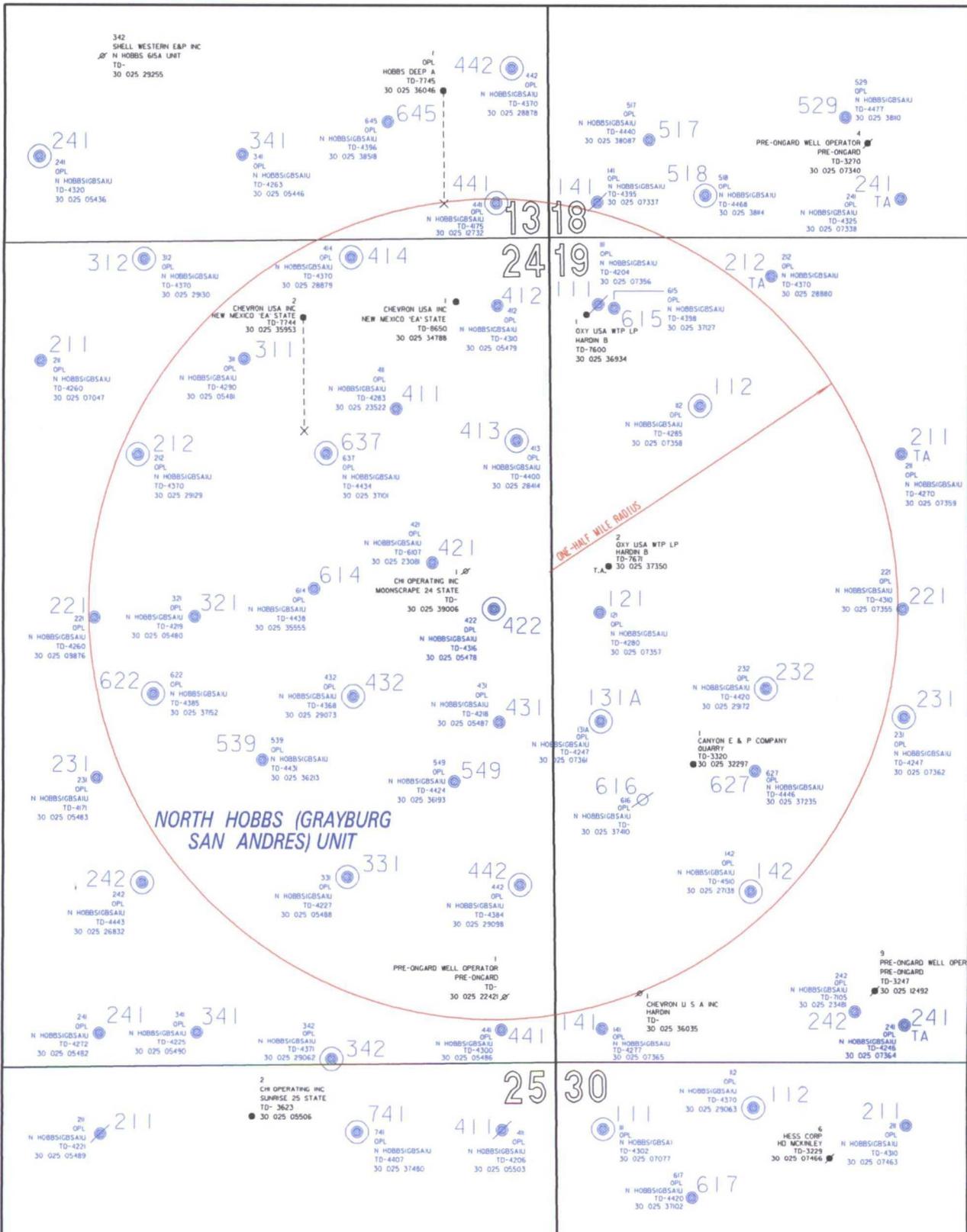
Occidental Permian, Ltd.
Form C-108, NIGSAU 241 & 422
2-Mile Radius Map

HOBBS AIRPORT

COUNTRY CLUB

EA CO AIRPORT

[Map contains numerous text labels for land parcels, including owner names (e.g., Yates Petroleum, Occidental Permian, Ltd., Chevron, Phillips), well identifiers (e.g., V-1001, B-1506), and lease details. The map also shows grid coordinates and section numbers.]



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

OXY Occidental Permian Ltd.

Area of Review Plat
**NORTH HOBBS (GRAYBURG
SAN ANDRES) UNIT**

WELL NO. 24-422

Lea County, New Mexico

Scale: 1" = 600' 2-21-2013 north_hobbs_api.dgn
Plat prepared by BWS
For Horizon Survey, Inc.

OCCIDENTAL PERMIAN LTD.
AREA OF REVIEW WELL DATA
NORTH HOBBS G/SA UNIT WELLS NO. 241 & 422

API NUMBER	OPERATOR	LEASE NAME	WELL NO.	WELL TYPE	STATUS	FTG. N/S	N/S	FTG. E/W	E/W	UNIT	SEC.	TSHP	RNG.	DATE DRILLED	TOTAL DEPTH	SOLE SIZE	CSG. SIZE	SET AT	SX. CMT.	CMT. TOP	MTD.	SOLE SIZE	CSG. SIZE	SET AT	SX. CMT.	CMT. TOP	MTD.	COMPLETION	REMARKS		
30-025-07355	Occidental Permian Ltd.	NHGS AU	221	P	Active	2310'	N	2310'	W	F	19	18S	38E																		
30-025-07362	Occidental Permian Ltd.	NHGS AU	231	I	Active	2310'	S	2310'	W	K	19	18S	38E																		
30-025-07363	Occidental Permian Ltd.	NHGS AU	331	P	PA	2310'	S	2310'	E	J	19	18S	38E																		
30-025-07365	Occidental Permian Ltd.	NHGS AU	141	P	Active	330'	S	330'	W	M	19	18S	38E																		
30-025-07366	Occidental Permian Ltd.	NHGS AU	441	P	Active	330'	S	330'	E	P	19	18S	38E																		
30-025-07367	Shell Oil Company	McKinley A-19	1	P	PA	2310'	S	1650'	E	J	19	18S	38E																		
30-025-12490	Shell Oil Company	McKinley "A"	8	P	PA	2310'	S	1320'	E	I	19	18S	38E																		
30-025-12491	Occidental Permian Ltd.	NHGS AU	341	P	Active	330'	S	2310'	E	O	19	18S	38E																		
30-025-12492	Shell Oil Company	McKinley "A"	9	P	PA	660'	S	1980'	W	N	19	18S	38E																		
30-025-22601	Occidental Permian Ltd.	NHGS AU	431	I	PA	1650'	S	990'	E	I	19	18S	38E																		
30-025-23481	Occidental Permian Ltd.	NHGS AU	242	P	Active	420'	S	1980'	W	N	19	18S	38E																		
30-025-27138	Occidental Permian Ltd.	NHGS AU	142	I	Active	1200'	S	1300'	W	M	19	18S	38E																		
30-025-29172	Occidental Permian Ltd.	NHGS AU	232	I	Active	2501'	S	1410'	W	K	19	18S	38E																		
30-025-29195	Occidental Permian Ltd.	NHGS AU	332	I	Active	1430'	S	2535'	E	J	19	18S	38E																		
30-025-05486	Occidental Permian Ltd.	NHGS AU	441	P	Active	330'	S	330'	E	P	24	18S	37E																		
30-025-22421	Harold Runnels	TP State	1	P	ND	430'	S	330'	E	P	24	18S	37E																		
30-025-07077	Occidental Permian Ltd.	NHGS AU	111	I	Active	330'	N	330'	W	D	30	18S	38E																		
30-025-07462	Occidental Permian Ltd.	NHGS AU	221	P	Active	2310'	N	2310'	W	F	30	18S	38E																		
30-025-07463	Occidental Permian Ltd.	NHGS AU	211	P	Active	330'	N	2310'	W	C	30	18S	38E																		
30-025-07465	Hess Corporation	H D McKinley	5	P	PA	1980'	N	1909'	W	F	30	18S	38E																		
30-025-07466	Hess Corporation	H D McKinley	6	P	PA	660'	N	1909'	W	C	30	18S	38E																		
30-025-07469	Occidental Permian Ltd.	NHGS AU	311	P	TA	330'	N	2310'	E	B	30	18S	38E																		
30-025-07489	Getty Oil Company	H D McKinley	7	P	PA	330'	N	1650'	E	B	30	18S	38E																		
30-025-22410	Rotary Oil & Gas	McKinley	8	P	PA	2145'	N	2540'	W	F	30	18S	38E																		
30-025-23270	Occidental Permian Ltd.	NHGS AU	313	I	Active	405'	N	2272'	E	B	30	18S	38E																		
30-025-26833	Occidental Permian Ltd.	NHGS AU	222	I	Active	1470'	N	1395'	W	F	30	18S	38E																		
30-025-27059	Occidental Permian Ltd.	NHGS AU	422	I	Active	1520'	N	1300'	E	H	30	18S	38E																		
30-025-28412	Shell Oil Company	NHGS AU	312	P	ND	1392'	N	2477'	E	G	30	18S	38E																		
30-025-28555	Occidental Permian Ltd.	NHGS AU	223	I	Active	1770'	N	2405'	W	F	30	18S	38E																		
30-025-29063	Occidental Permian Ltd.	NHGS AU	112	I	Active	200'	N	1310'	W	D	30	18S	38E																		
30-025-29197	Occidental Permian Ltd.	NHGS AU	312	I	Active	530'	N	1448'	E	B	30	18S	38E																		
30-025-34983	Occidental Permian Ltd.	NHGS AU	713	P	Active	1196'	N	1823'	E	B	30	18S	38E																		
30-025-35332	Occidental Permian Ltd.	NHGS AU	621	P	Active	927'	N	2158'	W	C	30	18S	38E																		
30-025-36297	Texland Petroleum-Hobbs	C T McKinley	1	P	PA	1535'	N	2418'	W	F	30	18S	38E																		
30-025-37127	Occidental Permian Ltd.	NHGS AU	615	P	Active	469'	N	402'	W	D	19	18S	38E																		
30-025-36934	Oxy USA WTP Ltd. Part.	B Hardin	1	P	Active	410'	N	348'	W	D	19	18S	38E																		
30-025-35953	Chevron USA, Inc.	New Mexico EA St.	2	P	Active	330'	N	1733'	E	B	24	18S	37E																		
30-025-36046	Occidental Permian Ltd.	Hobbs Deep A	1	P	Active	990'	S	660'	E	P	13	18S	37E																		
30-025-07361	Occidental Permian Ltd.	NHGS AU	131A	I	Active	2310'	S	330'	W	L	19	18S	38E																		
30-025-07358	Occidental Permian Ltd.	NHGS AU	112	I	Active	990'	N	990'	W	D	19	18S	38E																		
30-025-07357	Occidental Permian Ltd.	NHGS AU	121	P	Active	2310'	N	333'	W	E	19	18S	38E																		
30-025-07356	Occidental Permian Ltd.	NHGS AU	111	P	PA	330'	N	330'	W	D	19	18S	38E																		
30-025-29098	Occidental Permian Ltd.	NHGS AU	442	I	Active	1260'	S	200'	E	P	24	18S	37E																		
30-025-05488	Occidental Permian Ltd.	NHGS AU	331	I	Active	1320'	S	1325'	E	J	24	18S	37E																		
30-025-05487	Occidental Permian Ltd.	NHGS AU	431	P	Active	2310'	S	330'	E	I	24	18S	37E																		
30-025-29073	Occidental Permian Ltd.	NHGS AU	432	I	Active	2480'	S	1280'	E	I	24	18S	37E																		
30-025-09876	Occidental Permian Ltd.	NHGS AU	221	P	Active	2310'	N	2310'	W	F	24	18S	37E																		
30-025-05480	Occidental Permian Ltd.	NHGS AU	321	P	Active	2310'	N	2310'	E	G	24	18S	37E																		
30-025-05478	Occidental Permian Ltd.	NHGS AU	422	I	Active	2310'	N	330'	E	H	24	18S	37E																		
30-025-23081	Occidental Permian Ltd.	NHGS AU	421	P	Active	1980'	N	760'	E	H	24	18S	37E																		
30-025-29129	Occidental Permian Ltd.	NHGS AU	212	I	Active	1263'	N	2605'	W	C	24	18S	37E																		
30-025-28414	Occidental Permian Ltd.	NHGS AU	413	I	Active	1200'	N	206'	E	A	24	18S	37E																		
30-025-23522	Occidental Permian Ltd.	NHGS AU	411	P	Active	990'	N	990'	E	A	24	18S	37E																		
30-025-05481	Occidental Permian Ltd.	NHGS AU	311	P	Active	660'	N	1980'	E	B	24	18S	37E																		
30-025-05479	Occidental Permian Ltd.	NHGS AU	412	P	Active	330'	N	330'	E	A	24	18S	37E																		
30-025-28879	Occidental Permian Ltd.	NHGS AU	414	I	Active	10'	N	1280'	E	A	24	18S	37E																		
30-025-12732	Occidental Permian Ltd.	NHGS AU	441	I	Active	330'	S	330'	E	P	13	18S	37E																		
30-025-23221	Texland Petroleum-Hobbs	H D McKinley	9	P	TA	2235'	N	2310'	E	G	30	18S	38E																		
30-025-34788	Chevron USA, Inc.	New Mexico EA St.	1	P	Active	410'	N	610'	E	A	24	18S	37E																		

Well construction data and/or plugging diagrams for wells in this section has previously been submitted to the NMOC in prior hearing applications for CO2 injection authority and/or administrative applications for pressure maintenance expansions. NMOC required no remedial work on these wells.

OCCIDENTAL PERMIAN LTD.
AREA OF REVIEW WELL DATA
NORTH HOBBS G/SA UNIT WELLS NO. 241 & 422 (CONT.)
UPDATED AOR WELL LIST

API NUMBER	OPERATOR	LEASE NAME	WELL NO.	WELL TYPE	STATUS	FTG. N/S	N/S	FTG. E/W	E/W	UNIT	SEC.	TSHP.	RNG.	DATE DRILLED	TOTAL DEPTH	HOLE SIZE	CSG. SIZE	SET AT	SX. CMT.	CMT. TOP	MTD.	HOLE SIZE	CSG. SIZE	SET AT	SX. CMT.	CMT. TOP	MTD.	COMPLETION	REMARKS
30-025-37102	Occidental Permian Ltd.	NHGSAU	617	P	Active	900'	N	863'	W	D	30	18S	38E	May-05	4,420'	12 1/4"	8 5/8"	1,471'	750	Surface	Circ.	7 7/8"	5 1/2"	4,419'	950	Surface	Circ.	4,140'-4,301' Perf.	DV Tool @ 3,521'. 1st-250; 2nd-700
30-025-32297	Canyon E & P Company	Quarry	1	P	Active	1980'	S	890'	W	L	19	18S	38E	Nov-93	3,320'	12 1/4"	8 5/8"	318'	200	Surface	Circ.	7 7/8"	5 1/2"	3,320'	550	387'	Calc.	2,670'-2,780' Perf.	Byers-Yates Pool completion
30-025-37154	Occidental Permian Ltd.	NHGSAU	616	P	ND	1820'	S	700'	W	L	19	18S	38E	APD Cancelled. Well Never Drilled															
30-025-37235	Occidental Permian Ltd.	NHGSAU	627	P	Active	1870'	S	1298'	W	L	19	18S	38E	Jun-05	4,446'	12 1/4"	8 5/8"	1,503'	750	Surface	Circ.	7 7/8"	5 1/2"	4,446'	950	Surface	Circ.	4,170'-4,321' Perf.	DV Tool @ 3,538' 1st-250; 2nd-700
					BHL	1713'	S	1757'	W	K	19	18S	38E																
30-025-37410	Occidental Permian Ltd.	NHGSAU	616	P	ND	1700'	S	580'	W	L	19	18S	38E	APD Cancelled. Well Never Drilled															
30-025-37445	Occidental Permian Ltd.	NHGSAU	733	P	Active	1690'	S	1080'	E	I	19	18S	38E	Nov-05	4,520'	12 1/4"	8 5/8"	1,550'	750	Surface	Circ.	7 7/8"	5 1/2"	4,520'	800	Surface	Circ.	4,315'-4,484' Perf.	DV Tool @ 3,528' 1st-250; 2nd-550
					BHL	2001'	S	1865'	E	J	19	18S	38E																
30-025-37446	Occidental Permian Ltd.	NHGSAU	633	I	Active	2290'	N	1410'	E	G	19	18S	38E	Oct-05	4,488'	12 1/4"	8 5/8"	1,514'	750	Surface	Circ.	7 7/8"	5 1/2"	4,485'	1000	Surface	Circ.	4,364'-4,397' Perf.	DV Tool @ 3,498' 1st-300; 2nd-700
					BHL	2844'	N	1495'	E	J	19	18S	38E																
30-025-36035	Chevron USA, Inc.	Hardin	1	P	ND	660'	N	660'	W	D	19	18S	38E	APD Cancelled. Well Never Drilled															
30-025-36213	Occidental Permian Ltd.	NHGSAU	539	P	Active	2056'	S	1889'	E	J	24	18S	37E	Apr-03	4,431'	18"	14"	40'	50	Surface	Circ.	12 1/4"	8 5/8"	1,532'	900	Surface	Circ.	4,158'-4,294' Perf.	DV Tool @ N/A 1st-250; 2nd-650
																						7 7/8"	5 1/2"	4,431'	900	Surface	Circ.		
30-025-36193	Occidental Permian Ltd.	NHGSAU	549	P	Active	1802'	S	815'	E	I	24	18S	37E	Mar-03	4,424'	18"	14"	40'	50	Surface	Circ.	12 1/4"	8 5/8"	1,514'	800	Surface	Circ.	4,132'-4,296' Perf.	DV Tool @ N/A 1st-250; 2nd-650
																						7 7/8"	5 1/2"	4,424'	900	Surface	Circ.		
30-025-37152	Occidental Permian Ltd.	NHGSAU	622	I	Active	2482'	S	2599'	E	J	24	18S	37E	Aug-05	4,385'	26"	16"	40'	100	Surface	Circ.	12 1/4"	8 5/8"	1,500'	750	Surface	Circ.	4,174'-4,311' Perf.	DV Tool @ 3,480' 1st-250; 2nd-700
																						7 7/8"	5 1/2"	4,372'	950	Surface	Circ.		
30-025-35555	Occidental Permian Ltd.	NHGSAU	614	P	Active	2140'	N	1542'	E	G	24	18S	37E	Jun-01	4,438'	18"	14"	40'	50	Surface	Circ.	12 1/4"	8 5/8"	1,560'	850	Surface	Circ.	4,128'-4,287' Perf.	DV Tool @ 3,515' 1st-250; 2nd-600
																						7 7/8"	5 1/2"	4,438'	850	Surface	Circ.		
30-025-39006	Chi Operating, Inc.	Moonscape 24 St.	1H	P	ND	2141'	N	561'	E	H	24	18S	37E	APD Cancelled. Well Never Drilled															
30-025-37101	Occidental Permian Ltd.	NHGSAU	637	I	Active	1268'	N	1455'	E	B	24	18S	37E	Apr-05	4,434'	26"	16"	40'	50	Surface	Circ.	12 1/4"	8 5/8"	1,507'	750	Surface	Circ.	4,149'-4,290' Perf.	DV Tool @ 3,532' 1st-250; 2nd-700
																						7 7/8"	5 1/2"	4,432'	950	Surface	Circ.		



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

Occidental Permian, Ltd.
Form C-108, NHGSAU 241 & 422
Fresh Water Analysis

Form C-108
Affirmative Statement
Occidental Permian Ltd.
North Hobbs G/SA Unit Wells No. 241 & 422
Section 19, T-18 South, R-38 East, &
Section 24, 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.

3/8/13

Date

March 8, 2013

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

TO: OFFSET OPERATORS & SURFACE OWNERS
(SEE ATTACHED LIST)

Re: Occidental Permian Ltd.
Application for Authorization to Inject
Application to Amend Order No. PMX-204
North Hobbs G/SA Unit Wells No. 241 & 422
Section 19, T-18S, R-38E, &
Section 24, 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 Wells No. 241 and 422 located respectively in Unit N of Section 19, Township 18 South, Range 38 East, and Unit H of Section 24, Township 18 South, Range 37 East, NMPM, Lea County, New Mexico. The North Hobbs G/SA Unit Well No. 422 was previously authorized for water injection within the North Hobbs Grayburg San Andres Unit Phase I Tertiary Recovery Project Area by Order No. PMX-204. Occidental is now seeking an amendment to this order to allow injection of carbon dioxide and produced gas within this well, and to expand the injection interval to include the perforated interval from 3,900 feet to 4,310 feet. Occidental is also seeking approval to convert the North Hobbs G/SA Unit Well No. 241 from a producing well to an injection well.

You are being provided a copy of the application as an offset operator or surface owner of the land on which the injection wells are located. The requested amendment and authorization to inject will allow the completion of an efficient injection/production pattern within the North Hobbs Grayburg San Andres Unit Phase I Tertiary Recovery 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

Occidental Permian Ltd.
Form C-108: North Hobbs G/SA Unit Wells No. 241 & 422
Section 19, T-18 South, R-38 East, &
Section 24, T-18 South, R-37 East, NMPM
Lea County, New Mexico

Offset Operator/Surface Owner Notification List

All acreage located within a ½ mile radius of the North Hobbs G/SA Unit Wells No. 241 & 422 is contained within Occidental Permian Ltd.'s North Hobbs Grayburg San Andres Unit. Occidental Permian Ltd. is providing notice to operators within the ½ mile AOR whose wells penetrate the Grayburg-San Andres formation, described as follows:

N/2 NE/4 of Section 24, T-18S, R-37E

Chevron USA, Inc.
P.O. Box 2100
Houston, Texas 77252
Attn: Sandy Stedman-Daniel

SW/4 NE/4 of Section 30, T-18S, R-38E

Texland Petroleum-Hobbs, LLC
777 Mainstreet, Suite 3200
Fort Worth, Texas 76102

Surface Owner (North Hobbs G/SA Unit No. 241)

Alonzo Ramirez, Jr.
3404 N. Enterprise Rd.
Hobbs, New Mexico 88240

Surface Owner (North Hobbs G/SA Unit No. 422)

Commissioner of Public Lands
P.O. Box 1148
Santa Fe, New Mexico 87504-1148

Additional Notice

Oil Conservation Divison (Hobbs Office)
1625 N. French Drive
Hobbs, New Mexico 88240

Form C-108
Occidental Permian, Ltd.
North Hobbs G/SA Unit Wells No. 241 & 422
Section 19, T-18 South, R-38 East, &
Section 24, T-18S, R-37 East, NMPM
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 convert the following-described well to a water, CO₂ and produced gas injection well within the North Hobbs Grayburg San Andres Unit Phase I Tertiary Recovery Project:

North Hobbs G/SA Unit No. 241 (API No. 30-025-07364) 330' FSL & 2310' FWL (N) Section 19, T-18 South, R-38 East: Injection Interval: 4,000'-4,246' Perforated

Occidental Permian Ltd. also seeks to amend Division Order No. PMX-204 to allow the injection of CO₂ and produced gas within the following-described well which was previously authorized for water injection only. Occidental Permian Ltd. also seeks approval to expand the injection interval in this well as described below. This well is also located within the North Hobbs Grayburg San Andres Unit Phase I Tertiary Recovery Project:

North Hobbs G/SA Unit No. 422 (API No. 30-025-05478) 2310' FNL & 330' FEL (H) Section 24, T-18S, R-37E: Injection Interval: 3,900'-4,310' Perforated;

Produced water from the Hobbs Grayburg-San Andres Pool, CO₂ 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 CO₂ 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.

Affidavit of Publication

State of New Mexico,
County of Lea.

I, JUDY HANNA
PUBLISHER

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
March 09, 2013
and ending with the issue dated
March 09, 2013

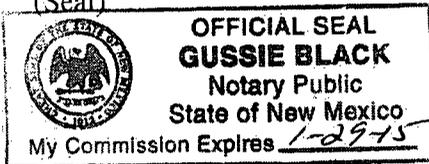

PUBLISHER

Sworn and subscribed to before me
this 11th day of
March, 2013



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

LEGAL

Legal Notice
March 9, 2013

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 convert the
following-described well to a water, CO2 and produced
gas injection well within the North Hobbs Grayburg
San Andres Unit Phase I Tertiary Recovery Project:

North Hobbs G/SA Unit No. 241 (API No. 30-025-07364)
330' FSL & 2310' FWL (N) Section 19, T-18 South, R-38
East: Injection Interval: 4,000'-4,246' Perforated

Occidental Permian Ltd. also seeks to amend Division
Order No. PMX-204 to allow the injection of CO2 and
produced gas within the following-described well
which was previously authorized for water injection
only. Occidental Permian Ltd. also seeks approval to
expand the injection interval in this well as described
below. This well is also located within the North Hobbs
Grayburg San Andres Unit Phase I Tertiary Recovery
Project:

North Hobbs G/SA Unit No. 422 (API No. 30-025-05478)
2310' FNL & 330' FEL (H)
Section 24, T-18S, R-37E: Injection Interval:
3,900'-4,310' Perforated;

Produced water from the Hobbs Grayburg-San Andres
Pool, CO2 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 CO2 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.
#27982

67109591

00110626

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

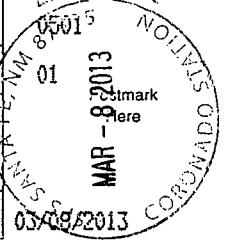
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Total Postage & Fees	\$	\$7.37



Sent To **Alonzo Ramirez, Jr.**
3404 N. Enterprise Rd.
 Hobbs, New Mexico 88240
 City, State, ZIP+4

PS Form 3800, August 2006 See Reverse for Instructions

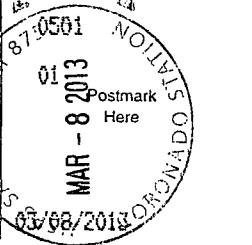
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Total Postage & Fees	\$	\$7.37



Sent To **Commissioner of Public Lands**
P.O. Box 1148
 Santa Fe, New Mexico 87504-1148
 City, State, ZIP+4

PS Form 3800, August 2006 See Reverse for Instructions

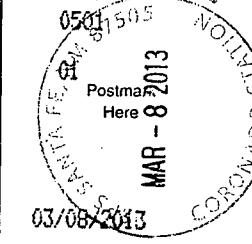
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Restricted Delivery Fee (Endorsement Required)		\$0.00
Total Postage & Fees	\$	\$7.37



Sent To **Chevron USA, Inc.**
P.O. Box 2100
 Houston, Texas 77252
 Attn: Sandy Stedman-Daniel
 City, State, ZIP+4

PS Form 3800, August 2006 See Reverse for Instructions

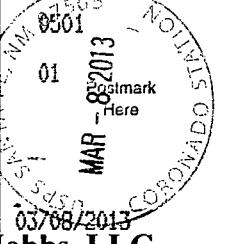
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Return Receipt Fee (Endorsement Required)		\$2.55
Restricted Delivery Fee (Endorsement Required)		\$0.00
Total Postage & Fees	\$	\$7.37



Sent To **Texland Petroleum-Hobbs, LLC**
777 Mainstreet, Suite 3200
 Fort Worth, Texas 76102
 City, State, ZIP+4

PS Form 3800, August 2006 See Reverse for Instructions