



Occidental Permian Limited Partnership

Houston Office
P.O. Box 4294
Houston, TX 77210-4294
(281) 552-1000

120276331 FMX

8/8/01

214

July 20, 2001

State of New Mexico
Energy, Minerals & Natural Resources Department
Oil Conservation Division
1220 S. St. Francis Dr.
Santa Fe, NM 87504

RE: Expansion of Pressure Maintenance Project
North Hobbs (Grayburg/San Andres) Unit
Hobbs; Grayburg – San Andres Pool
Well No. 441
Letter P, Section 23, T-18-S, R-37-E
Lea County, NM

01 JUL 24 AM 11:30
CL OFFICE OF THE ATTORNEY GENERAL

Gentlemen:

Occidental Permian Limited Partnership respectfully requests administrative approval for expansion of the subject pressure maintenance project by converting North Hobbs (G/SA) Unit Well No. 441 from production to water injection. Administrative Order No. R-6199 granted November 30, 1979, authorized Shell Western E&P Inc. (Occidental Permian Limited Partnership's predecessor) to conduct the North Hobbs (G/SA) Unit pressure maintenance project within the Hobbs; Grayburg – San Andres Pool.

The following data is submitted in support of this request:

- Form C-108 with miscellaneous data attached
- Form C-102
- A map reflecting the location of the proposed injection well (No. 441). The map identifies all wells located within a two-mile radius of the proposed injector and has a one-half mile radius circle drawn around the proposed injection well which identifies the well's Area of Review
- An injection well data sheet
- A tabulation of data on all wells of public record within the well's Area of Review



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- Schematics of plugged wells of public record within the well's Area of Review
- A list of Offset Operators and Surface Owners (these parties have been notified of this application by certified mail)
- An Affidavit of Publication and copy of the legal advertisement that was published in the county in which the well is located

Your favorable consideration of our request will be appreciated. If you have any questions of a technical nature, please call David Nelson at (505) 397-8211. Otherwise, please call me at (281) 552-1158.

Very truly yours,

Mark Stephens

Mark Stephens
Business Analyst (SG)

CC: Oil Conservation Division
Hobbs District Office
1625 N. French Drive
Hobbs, NM 88240

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

Offset Operators (see attached list)

Surface Owners (see attached list)

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: Secondary Recovery X Pressure Maintenance Disposal Storage
Application qualifies for administrative approval? X Yes No
- II. OPERATOR: Occidental Permian Limited Partnership
ADDRESS: P.O. Box 4294, Houston, TX 77210-4294
CONTACT PARTY: Mark Stephens, Rm. 338-B, WL2 PHONE: (281) 552-1158
- 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? X Yes No
If yes, give the Division order number authorizing the project: R-6199 (11/30/79)
- 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: Mark Stephens TITLE: Business Analyst (SG)
SIGNATURE: Mark Stephens DATE: 7/20/01
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: Hearing October 3, 1979; Case No. 6653, Order No. R-6199

Attachment To Form C-108
Miscellaneous Data

North Hobbs (Grayburg/San Andres) Unit
Well No. 441
Letter P, Section 23, T-18-S, R-37-E
Lea County, New Mexico

III. Well Data

- B.(5) Next higher oil zone -- Grayburg @ +/- 3700'
Next lower oil zone -- Glorieta @ +/- 5300'

VII. Proposed Operation

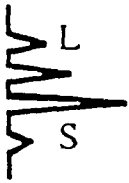
1. Average Injection Rate 1500 BWPD
Maximum Injection Rate 4000 BWPD
2. Closed Injection System
3. Average Injection Pressure 500 PSIG
Maximum Injection Pressure 805 PSIG (approx.)
(will not exceed 0.2 psi/ft. to top perforation)
4. Source Water – San Andres Produced Water
(Mitchell Analytical Laboratory analysis attached)

IX. Stimulation Program

Acid treatment of unitized perforations will be performed during conversion work

- XI. Fresh Water Sample Analysis
Laboratory Services, Inc. analysis from nearby NHU Nos. 221 & 342 (Sec. 24)

- XII. Occidental Permian Limited Partnership affirms that available geologic and engineering data has been examined resulting in the finding of no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.



Laboratory Services, Inc.

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

Water Analysis

COMPANY Altura Energy Ltd,
SAMPLE 18S-37E-Sec 24 SE1/4, SE1/4, SE1/4, SE1/4, SW1/4
SAMPLED BY David Nelson
DATE TAKEN 10/12/99
REMARKS

Barium as Ba	0	
Carbonate alkalinity PPM	0	
Bicarbonate alkalinity PPM	224	
pH at Lab	7.47	
Specific Gravity @ 60°F	1.001	
Magnesium as Mg	197	
Total Hardness as CaCO ₃	340	
Chlorides as Cl	141	
Sulfate as SO ₄	105	
Iron as Fe	0	
Potassium	0.1	
Hydrogen Sulfide	0	
Rw	7.5	23 C
Total Dissolved Solids	885	
Calcium as Ca	143	
Nitrate	2.4	

Results reported as Parts per Million unless stated

Langelier Saturation Index - 0.03

Analysis by: Rolland Perry
Date: 10/19/99

MITCHELL ANALYTICAL LABORATORY

2638 Faudree
Odessa, Texas 79765-8538
561-5579

Water Analysis

Company.... Nalco/Exxon Energy Chemicals
Well # WIS DISCHARGE PUMP
Lease..... ALTURA NHU
Location...
Date Run... 11/08/1999
Lab Ref #.. 99-NOV-N05126

Sample Temp... 70.0
Date Sampled.. 11/05/1999
Sampled by.... Mike Athey
Employee # ... 27-008
Analyzed by... DANIEL

Dissolved Gasses

		Mg/L	Eq. Wt.	MEq/L
Hydrogen Sulfide	(H ₂ S)	486.00	16.00	30.38
Carbon Dioxide	(CO ₂)	Not Analyzed		
Dissovled Oxygen	(O ₂)	Not Analyzed		

Cations

Calcium	(Ca++)	804.00	20.10	40.00
Magnesium	(Mg++)	195.20	12.20	16.00
Sodium	(Na+)	3,459.66	23.00	150.42
Barium	(Ba++)	Not Analyzed		
Manganese	(Mn++)	Not Analyzed		

Anions

Hydroxyl	(OH-)	Not Analyzed		
Carbonate	(CO ₃ =)	0.00	30.00	0.00
Bicarbonate	(HCO ₃ -)	1,869.66	61.10	30.60
Sulfate	(SO ₄ =)	1,700.00	48.80	34.84
Chloride	(Cl-)	5,005.50	35.50	141.00
Total Iron	(Fe)	0.30	18.60	0.02
Total Dissolved Solids		13,520.32		
Total Hardness As CaCO ₃		2,810.32		
Conductivity MICROMHOS/CM		23,500		

pH 6.500 Specific Gravity 60/60 F. 1.009

CaSO₄ Solubility @ 80 F. 46.63 MEq/L, CaSO₄ scale is unlikely

CaCO₃ Scale Index

70.0	0.190
80.0	0.310
90.0	0.530
100.0	0.530
110.0	0.790
120.0	0.790
130.0	1.090
140.0	1.090
150.0	1.370

Nalco/Exxon Energy Chemicals

District I
P.O. Box 1980, Hobbs, NM 88241-1980
District II
811 S. 1st Street, Artesia, NM 88210-2834
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Revised October 18, 1994

Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-05473	² Pool Code 31920	³ Pool Name Hobbs; Grayburg - San Andres
⁴ Property Code 19520	⁵ Property Name North Hobbs G/SA Unit	⁶ Well Number 441
⁷ OGRID No. 157984	⁸ Operator Name Occidental Permian Limited Partnership	⁹ Elevation 3674

¹⁰ Surface Location

UL or lot no. P	Section 23	Township 18-S	Range 37-E	Lot. Idn	Feet from the 990	North/South Line South	Feet from the 330	East/West line East	County Lea
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
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¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON--STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

				¹⁷ OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i> <u>Mark Stephens</u> Signature Mark Stephens Printed Name Business Analyst (SG) Title July 20, 2001 Date
				¹⁸ SURVEYOR CERTIFICATION <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i> Date of Survey Signature and Seal of Professional Surveyer: Certificate Number

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
811 S. 1st Street, Artesia, NM 88210-2834
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-102
Revised October 18, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-05473	² Pool Code 31920	³ Pool Name Hobbs; Grayburg - San Andres
⁴ Property Code 19520	⁵ Property Name North Hobbs G/SA Unit	⁶ Well Number 441
⁷ OGRID No. 157984	⁸ Operator Name Occidental Permian Limited Partnership	⁹ Elevation 3674

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UL or lot no. P	Section 23	Township 18-S	Range 37-E	Lot. Idn	Feet from the 990	North/South Line South	Feet from the 330	East/West line East	County Lea

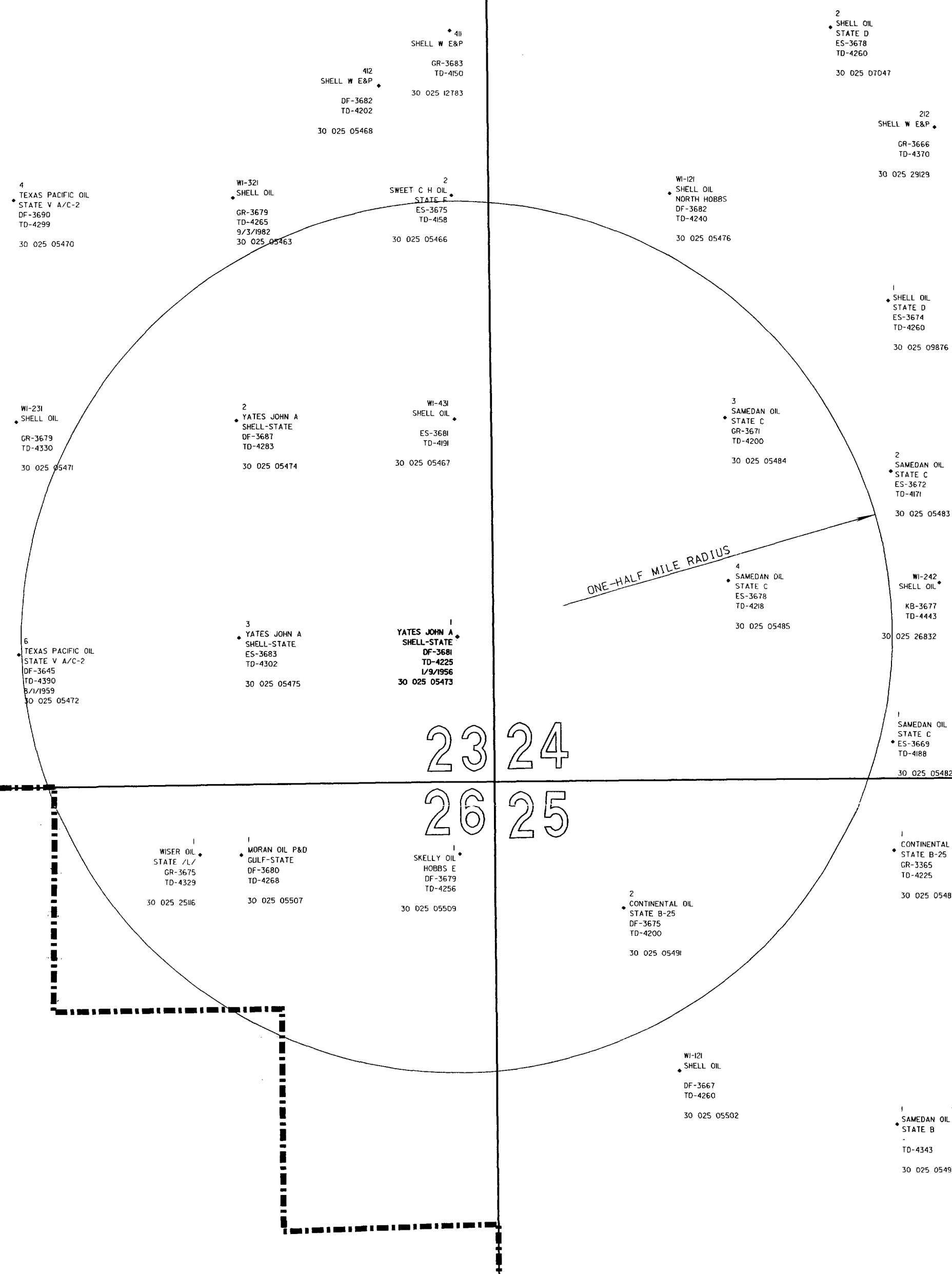
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
¹² Dedicated Acres ¹³ Joint or Infill ¹⁴ Consolidation Code ¹⁵ Order No.									

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				<u>Mark Stephens</u> Signature Mark Stephens Printed Name Business Analyst (SG) Title July 20, 2001 Date	
				¹⁸ SURVEYOR CERTIFICATION <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i>	
				Date of Survey Signature and Seal of Professional Surveyer: Certificate Number	

990'

330'



NOTE:
WELL DATA DERIVED FROM THE PETROLEUM
INFORMATION - DATA MANAGEMENT SYSTEM.
WELL DATA SYSTEM PREPARED FOR AMOCO.



Area of Review Plat

NORTH HOBBS (GRAYBURG SAN ANDRES) UNIT

WELL NO. 23-441

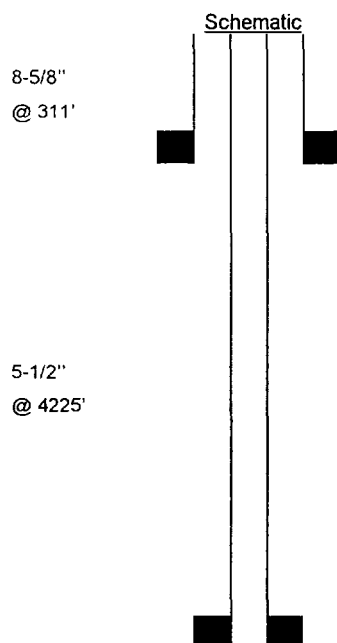
T-18-S, R-37-E
Lea County, New Mexico

Scale: 1" = 600' 12-05-00 nm438a02.dgn
Plat prepared by PJE Drafting, Inc.
For Horizon Survey, Inc.

LARGE FORMAT
EXHIBIT HAS
BEEN REMOVED
AND IS LOCATED
IN THE NEXT FILE

INJECTION WELL DATA SHEET

Operator Occidental Permian Limited Partnership		Lease North Hobbs G/SA Unit		County Lea	
Well No. 23-441	Footage Location 990' FSL & 330' FEL	Section 23	Township 18-S	Range 37-E	Unit Letter P



		<u>Tubular Data</u>	
<u>Surface Casing</u>			
Size	8- 5/8"	Cemented with	160 sxs.
TOC	SURF	Determined by	CIRC.
Hole size			
<u>Intermediate Casing</u>			
Size		Cemented with	sxs.
TOC		Determined by	
Hole size			
<u>Long string Casing</u>			
Size	5-1/2"	Cemented with	1300 sxs.
TOC	SURF	Determined by	CBL
Hole size			
<u>Liner</u>			
Size		Cemented with	sxs.
TOC		Determined by	
Hole size			
Total depth	4225'		

Injection interval
4064 feet to 4400 feet

Completion type Perforated Casing

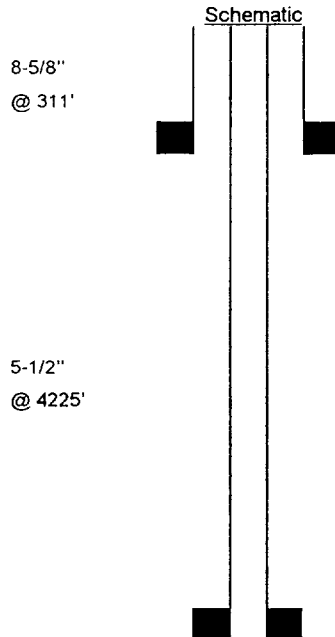
Tubing size 2-7/8" lined with Duoline (Fiberglass liner) set in a
Guiberson -- Uni VI Packer at +/- 4041' feet
 (brand and model)

Other Data

- Name of the injection formation Grayburg/San Andres
- Name of field or Pool Hobbs
- Is this a new well drilled for injection? Yes ☐ No ☒
 If no, for what purpose was the well originally drilled? Producer
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) None
- Give the depth to and name of any overlying and/or underlying oil and gas zones (pools) in this area.
Byers 3740, Glorieta -- 5300

INJECTION WELL DATA SHEET

Operator Occidental Permian Limited Partnership		Lease North Hobbs G/SA Unit			County Lea
Well No. 23-441	Footage Location 990' FSL & 330' FEL	Section 23	Township 18-S	Range 37-E	Unit Letter P



<u>Surface Casing</u>		<u>Tubular Data</u>	
Size	8- 5/8"	Cemented with	160 sxs.
TOC	SURF	Determined by	CIRC.
Hole size			
<u>Intermediate Casing</u>			
Size		Cemented with	sxs.
TOC		Determined by	
Hole size			
<u>Long string Casing</u>			
Size	5-1/2"	Cemented with	1300 sxs.
TOC	SURF	Determined by	CBL
Hole size			
<u>Liner</u>			
Size		Cemented with	sxs.
TOC		Determined by	
Hole size			
Total depth	4225'		

Injection interval
4064 feet to 4400 feet

Completion type Perforated Casing

Tubing size 2-7/8" lined with Duoline (Fiberglass liner) set in a

Guiberson – Uni VI Packer at +/- 4041' feet
(brand and model)

Other Data

1. Name of the injection formation Grayburg/San Andres

2. Name of field or Pool Hobbs

3. Is this a new well drilled for injection? Yes ☐ No ☒
If no, for what purpose was the well originally drilled? Producer

4. Has the well ever been perforated in any other zone(s)? 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.

Byers 3740, Glorieta – 5300

FOR WELLS: 23-441, 27-141																	
Well Name Operator	API No.	Sec.	T	R	Un Ltr	Drill Date	Well Type	TD or PBTD	Top Perf	Bot. Perf	Sqz. Perfs	Csg. Size	Hole Size	Depth	No. of Sxs.	TOC	
23241 Oxy	30-025-05472	23	-18S	-37E	N	7/59	TA	4075 CIBP	4119	4295	4296-4312	8.625 5.5	12.25 7.875	339 4389	350 300	CIRC 2770 CBL	
23331 Oxy	30-025-05474	23	-18S	-37E	J	4/56	P PBTD	4210 PBTD	4080	4258	NONE	8.625 5.5	11 7.875	341 4282	180 1200	CIRC 2608 CBL	
23341 Oxy	30-025-05475	23	-18S	-37E	O	5/56	TA CIBP	4060 CIBP	4142	4248	NONE	8.625 5.5	11 7.875	352 4302	182 750	CIRC 367	
23431 Oxy	30-025-05467	23	-18S	-37E	I	1/53	TA CIBP	3910 CIBP	3993 OPEN HOLE	4150	NONE	8.625 5.5	12 7.375	252 3993	125 300	CIRC 1922-CALC	
23441 Oxy	30-025-05473	23	-18S	-37E	P	5/58	P PBTD	4200 PBTD	4064	4160	4165-4224	8.625 5.5	11 7.875	425 4299	300 2000	CIRC 1300	
24131 Oxy	30-025-5484	24	-18S	-37E	L	4/35	P	4200	4135	4145	NONE	12.5 7 5	17.5 8.625 6.25	219 4002 3942-4200	150 500 40	CIRC 2692 CBL 3942	
24141 Oxy	30-025-05485	24	-18S	-37E	M	10/35	P	4210	4190	4200	NONE	12.5 7 5	16 8.75 6.25	211 4035 3962-4270	175 800 36	CIRC 2604 3952	
25111 Oxy	30-025-05491	25	-18S	-37E	D	4/57	P FILL	4192 FILL	4087	4180	NONE	8.625 5.5	12.25 7.875	302 4199	250 1500	CIRC 1250	
26311 Oxy	30-025-25116	26	-18S	-37E	B	9/75	TA CIBP	4175 CIBP	4220	4284	NONE	8.625 4.5	12.25 7.875	353 4329	225 425	CIRC 2770	

FOR WELLS: 23-441, 27-141																
Well Name	API No.	Sec.	T	R	Un	Drill Date	Well Type	TD or P8TD	Top Perf	Bot. Perf	Sqz. Perfs	Csg. Size	Hole Size	Depth	No. of Sxs.	TOC
Operator					Ltr	Date	Type	P8TD	Perf	Perf	Perfs	Size	Size			
26411	30-025-05509	26	-18S	-37E	A	10/56	TA	4100	4163	4241	4256-4276	8.625	11	393	200	CIRC
Oxy								CIBP				5.5	7.875	4256	400	2796 CBL
27121	30-025-12494	27	-18S	-38E	E	6/36	P	4244	4108	4250	1730	12.5	17.5	270	150	CIRC
Oxy								P8TD			2475	9.625	12.25	1705	575	CIRC
												7	8.75	4108	275	CIRC-CALC
27131	30-025-07410	27	-18S	-38E	L	6/35	P	4252	4034	4252	NONE	12.5	16.5	259	150	CIRC-CALC
Oxy												9.625	12.25	1645	200	802-CALC
												7	8.75	4075	250	2818-CALC
27141	30-025-07408	27	-18S	-38E	M	11/34	P	4257	4032	4257	4210-4222	12.5	16	275	250	CIRC
Oxy												9.625	12.25	1648	363	117 CALC
												7	8.75	4060	250	2872 CALC
												5.5	7.875	4225	100	3150 CBL
27231	30-025-12495	27	-18S	-38E	K	7/37	P	4375	4086	4375	NONE	13	17.5	274	150	CIRC
Oxy									OPEN HOLE			9.625	12.25	1718	450	CIRC
												7	8.75	4086	250	3225-CBL
27241	30-025-07409	27	-18S	-38E	N	2/35	I	4364	4060	4350	1700	12.5	16	233	700	CIRC
Oxy											2450	9.625	12.25	1648	350	CIRC
												7	8.75	4060	250	3145
												5.5	7.875	4330	175	CIRC
28341	30-025-12489	28	-18S	-38E	O	7/34	P	4262	4084	4258	382	13.375	17.5	222	180	CIRC
Oxy								P8TD			4268-4276	9.625	12.25	1637	300	766
											4128-4171	7	8.75	3975	400	2912-CBL
												5	6.25	3928-4276	100	4009-CBL

FOR WELLS: 23-441, 27-141																
Well Name	API No.	Sec.	T	R	Un	Drill Date	Well Type	TD or PBTD	Top Perf	Bot. Perf	Sqz. Perfs	Csg. Size	Hole Size	Depth	No. of Sxs	TOC
Operator					Ltr	Date	Type	PBTD								
28342 Oxy	30-025-29199	28	-18S	-38E	B/O	7/187	P	4527 PBTD	4335	4468	NONE	14	17.5	40	N/A	CIRC
												9.625	12.25	1655	675	CIRC
												7	8.75	4569	1050	CIRC
28431 Oxy	30-025-07413	28	-18S	-38E	I	8/35	P	4225	3993	4218	2660	10.75	13.5	225	150	CIRC-CALC
												7.625	9.625	1640	400	CIRC-CALC
												5.5	7.875	3993	400	2698-CBL
28441 Oxy	30-025-07411	28	-18S	-38E	P	1/135	I	4272 PBTD	4102	4257	NONE	10.75	13.5	243	150	CIRC
												7.625	9.625	1634	300	185
												5.5	6.25	4015	300	CIRC
33411 Oxy	30-025-07556	33	-18S	-38E	A	11/134	P	4256	4095	4256	4020-4058	13.375	17	285	200	CIRC-CALC
												9.625	12.25	2739	50ZD	CIRC
												7	8.75	3970	150	CIRC
												5.5	6.25	3919-4175	40	3919-CALC
33412 Oxy	30-025-29932	33	-18S	-38E	H	7/187	P	4436	4171	4341	NONE	9.625	12.25	1542	650	CIRC
												7	8.75	4436	1250	CIRC
33421 Oxy	30-025-07554	33	-18S	-38E	H	9/132	P	4235	4100	4163	2000	13.375	18	221	175	CIRC-CALC
												9.625	12.25	2761	500	1310-CALC
												6.625	8.75	3959	250	3050-TS
												5.5	6.25	3911-4163	40	3911-CALC
33422 Oxy	30-025-28268	33	-18S	-38E	H	11/183	I	4476	4144	4313	NONE	16	20	30	40	CIRC
												8.625	12.25	1664	650	CIRC
												5.5	7.875	4476	750	CIRC
34211 Oxy	30-025-7579	34	-18S	-38E	C	7/134	P	4276	4133	4276	NONE	12.5	16	240	175	CIRC
												7	8.75	4012	400	1593-CALC
												5	6.25	4211	340	CIRC
SHC #6 Oxy	30-025-28309	34	-18S	-38E	E/D	11/183	I	4409 PBTD	4215	4406	NONE	14	17.5	40	42	CIRC
												8.625	12.25	1640	620	CIRC
												5.5	7.875	4444	1700	CIRC
SHC #9	30-025-28968	34	-18S	-38E	D	12/184	I	4484	4293	4441	NONE	14	17.5	40	52	CIRC

FOR WELLS: 23-441, 27-141																	
Well Name	API No.	Sec.	T	R	Un	Drill	Well	TD or	Top	Bot.	Sqz.	Csg.	Hole	Depth	No. of		
Operator					Ltr	Date	Type	PBTD	Perf	Perf	Perfs	Size	Size		Sxs.	TOC	
Oxy								PBTD				8.625	12.25	1655	840	CIRC	
												5.5	7.875	4491	1061	CIRC	
SHU #1	30-025-	7575	34	-18S	-38E	D	8/34	TA	4050	4080	4220	16	20	224	100	56	
Oxy								CIBP				10.75	13.75	1647	350	494	
												7	8.75	3976	1450	581	
												5	6.25	4221	50	3360	
SHU #2	30-025-	7571	34	-18S	-38E	E	8/32	P	4299	4084	4218	16	20	232	100	64	
Oxy								PBTD				10.75	13.75	2776	400	1458	
												8.625	12.25	3975	150	CIRC	
												5.5	7.875	3919-4220	188	3000	
SHU #210	30-025-	29677	34	-18S	-38E	D	5/86	TA	4075	4185	4360	16	20	40	26	CIRC	
Oxy								CIBP				10.75	13.75	1650	911	CIRC	
												7	8.75	4380	1256	CIRC	
Turner Tr. 2 #30	30-025-	26375	33	-18S	-38E	E	2/80	P	7012	6665	6986	13.375	17.5	420	450	CIRC	
Oxy								PBTD				9.625	12.25	4401	1250	CIRC	
												7	8.75	7050	400	4045-TS	

FOR WELLS: 23-441, 27-141																
Well Name	API No.	Sec.	T	R	Un	Drill Date	Well Type	TD or PBTD	Top Perf	Bot. Perf	Sqz. Perfs	Csg. Size	Hole Size	Depth	No. of Sxs.	TOC
Operator					Ltr	Date	Type	PBTD	6643	5848	5988	13.375	17.5	368	400	CIRC
Grimes NCT-B #7	30-025-23438	33	-18S	-38E	B	2/1/70	P	6643 PBTD	5848	5988	NONE	9.625	12.25	3859	2000	CIRC
TexLand								PBTD				7	8.75	7099	485	3635
Grimes NCT-B #8	30-025-24928	33	-18S	-38E	H	2/1/75	P	6935 PBTD	6654	6850	NONE	13.375	17.5	398	450	CIRC
TexLand								PBTD				9.625	12.25	3960	1750	CIRC
												7	8.75	7100	470	2510
Grimes NCT-B #9	30-025-28299	33	-18S	-38E	A	9/1/83	P	6490 PBTD	5853	5917	NONE	17.5	13.375	415	500	CIRC
TexLand								PBTD				12.25	8.625	4289	1740	CIRC
												7.875	5.5	7109	1220	CIRC
Grimes NCT-B #5	30-025-07557	33	-18S	-38E	B	5/1/48	PA	3226	3166	3226	NONE	9.625	13.375	300	250	CIRC
Gulf												5.5	7.875	3120	700	CIRC
W.D. Grimes #5	30-025-07414	28	-18S	-38E	O	11/1/47	PA	3218	3198	3209	NONE	10.75	12.25	410	300	CIRC
Continental Oil												5.5	7.875	3217	400	168
Sanger #1	30-025-07407	27	-18S	-38E	O	1/1/48	PA	4286	NONE	NONE	NONE	8.625	11	234	200	CIRC
Roy H. King												5.5	7.875	4060	350	1392
Gulf-State #1	30-025-05507	26	-18S	-37E	B	11/1/59	PA	4265	4200	4256	4000-4250	8.625	11	320	320	CIRC
Moran Oil P&D												4.5	7.875	4263	240	150

W. D. Grimes #5
Conoco
Unit O, 1980 FEL & 660 FSL
Sec 28, T-18S, R-38E

Filled well bore with 10# mud.

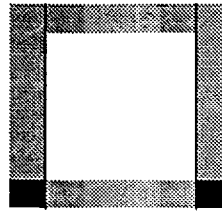
Spotted 40 sx. Cement plug
Over perms from 3199' to
3209'.

TD: 3218'

Gulf State #1
Moran Oil P&D
Unit B, 333' FNL X 1650' FEL
Sec. 26, T-18S, R-37E

WELL PLUGGED:
 6/18/65

Size: 8.625"
 Depth: 320'
 Hole size: 11"
 Cmt: 200 sxs.
 TOC: Circ.

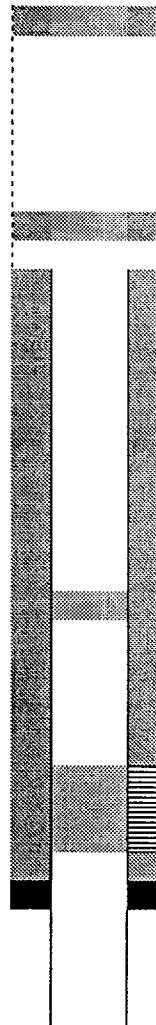


Spot 10 sx cement plug at
 Surface.

Spot 25 sx cement plug at
 300'.

Spot 25 sx cement plug at
 1700'.

Size: 4.5"
 Depth: 4263'
 Hole size: 7.875"
 Cmt: 240 sxs.
 TOC: 150'



Spot 25 sx cement plug at
 2600'.

Shot off 4 1/2" casing at 2608'.

Spot 25 sx cement plug at
 3550'.

TD: 4265'

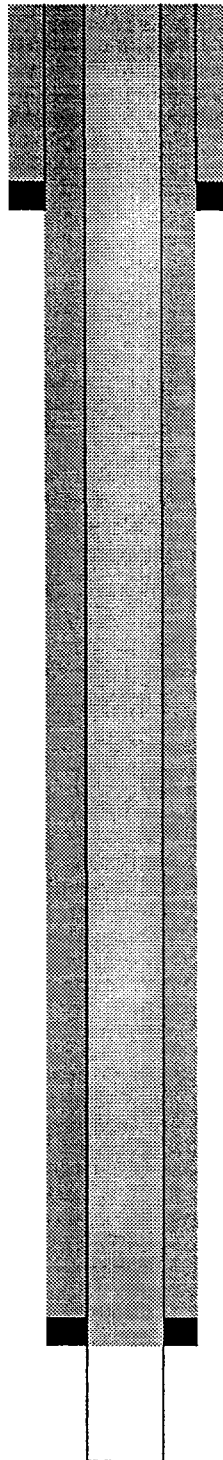
Squeezed perfs from 4000 to
 4250' with 20 sx cement plug.

W. D. Grimes NCT-B #5
Gulf
Unit B,
Sec 33, T-18S, R-38E

WELL PLUGGED:
4/18/60

Size: 9.625"
Depth: 300'
Hole size: 13.375"
Cmt: 250 sxs
TOC: Circ.

Spotted 10 sx cement plug
From 80' to surface.



Loaded hole with heavy mud.

Size: 5.5"
Depth: 3120'
Hole size: 7.875"
Cmt: 700 sxs
TOC: Circ.- Calc.
50% efficiency

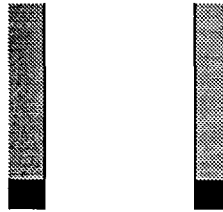
PBTD: 3055'-Cmt.

Spotted 35 sx cement plug
At 3226' to 2946'.

Sanger #1
Roy H. King
Unit O, SW ¼ of SE ¼
Sec. 27, T-18S, R-38E

WELL PLUGGED:
1/14/48

Size: 8.625"
Depth: 234'
Hole size: 11"
Cmt: 200 sx.
TOC: CIRC

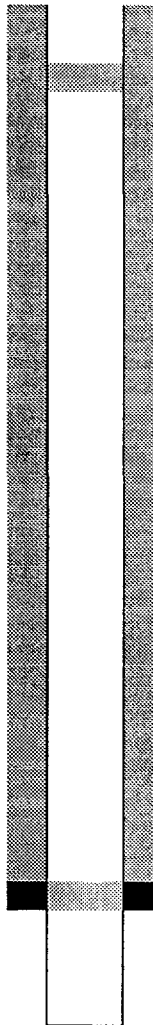


Set 10 sx cement plug at 246'

Shot 5 ½" casing off at 1215'

Set 18 sx cement plug at
1800' to 1850'.

Size: 5.5"
Depth: 4060'
Hole size: 7.875"
Cmt: 350 sx.
TOC: 1392'



TD:4286'

Set 25 sx cement plug in
Bottom of hole.

LIST OF OFFSET OPERATORS & SURFACE OWNERS

North Hobbs (Grayburg/San Andres) Unit
Well No. 441
Letter P, Section 23, T-18-S, R-37-E
Lea County, New Mexico

Offset Operators

Occidental Permian Limited Partnership
P.O. Box 4294
Houston, TX 77210-4294

Surface Owners

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

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

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

2. Article Number (Copy from service label)

7000 0600 0025 0797 2548

COMPLETE THIS SECTION ON DELIVERY

A. Received by (Please Print Clearly) B. Date of Delivery

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☐ Agent
☐ Addressee

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type

☒ Certified Mail ☐ Express Mail
☐ Registered ☒ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea.

I, KATHI BEARDEN

Publisher

of the Hobbs News-Sun, a
newspaper published at
Hobbs, New Mexico, do solemnly
swear that the clipping attached
hereto was published once a
week in the regular and entire
issue of said paper, and not a
supplement thereof for a period.

of 1
_____ weeks.
Beginning with the issue dated

February 14 2001
and ending with the issue dated

February 14 2001

Kathi Bearden
Publisher

Sworn and subscribed to before
me this 14th day of

February 2001

Jodi Benson
Notary Public.

My Commission expires
October 18, 2004
(Seal)

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

LEGAL NOTICE

February 14, 2001

Notice is hereby given of the application of Occidental Permian
Limited Partnership, Attn: Mark Stephens, P.O. Box 4294, Rm.
338-B, Houston, TX 77210-4294 (281/552-1158), to the Oil
Conservation Division, New Mexico Energy, Minerals and Nat-
ural Resources Department, for approval of the following injec-
tion wells for the purpose of secondary recovery:

Pool Name: Hobbs Grayburg - San Andres
Lease/Unit Name: North Hobbs G/SA Unit
Well No. 441
Loc.: 990' FSL & 330' FEL, Unit Letter P, Sec. 23, T-18-S, R-
37-E, Lea Co., NM
Well No. 141
Loc.: 330' FSL & 287' FWL, Unit Letter M, Sec. T-18-S, R-38-
E, Lea Co., NM

The injection formation is the Hobbs; Grayburg - San Andres
Pool between the intervals of +/- 3700' and +/- 5300' below the
surface of the ground. Expected maximum injection rate is
4000 BWPD and the expected maximum injection pressure is
approximately 805 psi. Interested parties must file objections or
requests for hearing with the Oil Conservation Division, 1220
S. St. Francis Dr., Santa Fe, NM 87504 within fifteen (15) days.
#17940

02101173000 01546545
Occidental Permian Limited
P. O. Box 4294
Houston, TX 77210-4294



Occidental Permian Limited Partnership

Houston Office
P.O. Box 4294
Houston, TX 77210-4294
(281) 552-1000

August 14, 2001

New Mexico Energy, Minerals & Natural Resources Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Attn: Mr. David Catanach
Petroleum Engineer

Re: Form C-108 Application
North Hobbs Gb/SA Unit Well Nos. 141 & 441
Lea Co., New Mexico

Dear Mr. Catanach:

Per your correspondence dated July 25, 2001, attached please find the following documentation submitted in support of our C-108 filing for the subject 2 wells:

- Administrative Application Checklist
- Proof of Notification to Offset Operator(s) and Surface Owner(s)
- Legal Notice (republished August 2, 2001)

If you have any questions or require additional information, please call me at (281) 552-1158.

Very truly yours,

Mark Stephens

Mark Stephens

Business Analyst (SG)

ABOVE THIS LINE FOR DIVISION USE ONLY

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



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 _____

[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.

Mark Stephens	<i>Mark Stephens</i>	Business Analyst (SG)	8 / 14/01
Print or Type Name	Signature	Title	Date
		Mark_Stephens@oxy.com	
		e-mail Address	

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

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

2. Article Number (Copy from service label)

7000 0600 0025 0797 2548

PS Form 3811, July 1999

Domestic Return Receipt

102595-00-M-0952

COMPLETE THIS SECTION ON DELIVERY

A. Received by (Please Print Clearly) B. Date of Delivery

C. Signature

X

☐ Agent
☐ Addressee

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

JUL 26 2001

3. Service Type

☒ Certified Mail ☐ Express Mail
☐ Registered ☒ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.
4. Restricted Delivery? (Extra Fee) ☐ Yes**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Texland Petroleum-Hobbs, LLC
~~500 Throckmorton, Suite 3100~~
Fort Worth, TX 76102-3818

777 MAIN
3200

2. Article Number (Copy from service label)

7000 0600 0025 0797 2555

PS Form 3811, July 1999

Domestic Return Receipt

102595-00-M-0952

COMPLETE THIS SECTION ON DELIVERY

A. Received by (Please Print Clearly) B. Date of Delivery

PAUL NEWCOMB JUL 26 2001

C. Signature

X

☒ Agent
☐ Addressee

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type

☒ Certified Mail ☐ Express Mail
☐ Registered ☒ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.
4. Restricted Delivery? (Extra Fee) ☐ Yes**SENDER: COMPLETE THIS SECTION**

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- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Ed & Marilyn G. Kirkmeyer
9029 Knowles Rd.
Hobbs, NM 88240

2. Article Number (Copy from service label)

7000 0600 0025 0797 2562

PS Form 3811, July 1999

Domestic Return Receipt

102595-00-M-0952

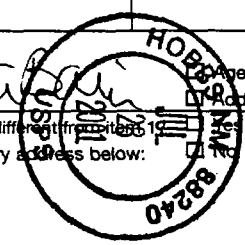
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C. Signature

X

☐ Agent
☐ Addressee

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No


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☐ Registered ☒ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.
4. Restricted Delivery? (Extra Fee) ☐ Yes

AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea.

I, KATHI BEARDEN

Publisher

of the Hobbs News-Sun, a
newspaper published at
Hobbs, New Mexico, do solemnly
swear that the clipping attached
hereto was published once a
week in the regular and entire
issue of said paper, and not a
supplement thereof for a period.

of 1

weeks.

Beginning with the issue dated

August 2 2001

and ending with the issue dated

August 2 2001

Kathi Bearden

Publisher

Sworn and subscribed to before

me this 2nd day of

August 2001

Jodi Benson

Notary Public.

My Commission expires
October 18, 2004
(Seal)

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

LEGAL NOTICE
August 2, 2001

Notice is hereby given of the application of Occidental Permian Limited Partnership, Attn: Mark Stephens, P.O. Box 4294, Rm. 338-B, Houston, TX 77210-4294 (281/552-1158), to the Oil Conservation Division, New Mexico Energy, Minerals and Natural Resources Department, for approval of the following injection wells for the purpose of secondary recovery:

Pool Name: Hobbs; Grayburg-San Andres
Lease/Unit Name: North Hobbs G/SA Unit
Well No. 441

Loc.: 990' FSL & 330' FEL, Unit Letter P, Sec. 23, T-18-S,
R-37-E, Lea Co., NM
Well No. 141

Loc.: 330' FSL & 287' FWL, Unit Letter M, Sec. 27, T-18-S,
R-38-E, Lea Co., NM

The injection formation is in Hobbs; Grayburg-San Andres Pool between the intervals of +/- 3700' and +/- 5300' below the surface of the ground. Expected maximum injection rate is 4000 BWPD and the expected maximum injection pressure is approximately 805 psi. Interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 S. St. Francis Dr., Santa Fe, NM 87504 within fifteen (15) days.
#18335

02101173000 67501816

Occidental Permian Limited
P. O. Box 4294
Houston, TX 77210-4294



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON

Governor

Jennifer A. Salisbury

Cabinet Secretary

July 25, 2001

COPY

Lori Wrotenberg

Director

Oil Conservation Division

Occidental Permian Limited Partnership
P. O. Box 4294
Houston, Texas 77210-4294

Attention: Mr. Mark Stephens

Re: Form C-108 Application
North Hobbs Gb/SA Unit No. 141

OCCIDENTAL
PERMIAN

JUL 30 2001

LAND

Dear Mr. Stephens:

This letter acknowledges the receipt of your administrative application dated July 20, 2001, to convert the North Hobbs Gb/SA Unit Well No. 141, located in Section 27, Township 18 South, Range 38 East, NMPM, Lea County, New Mexico, to an injection well within the waterflood project. The Division received your application on July 24, 2001.

Our preliminary review indicates that the information provided in the application is not sufficient to process the administrative order. The following information is necessary:

- a) **Administrative Application Checklist**
- b) **The publication notice published in the Hobbs News-Sun does not show the Section number for the subject well. Notice will have to be re-published.**

Since the submitted information is insufficient to review, the application was **Ruled Incomplete** on July 25, 2001. Please submit the above stated information by August 1, 2001.

The Division cannot proceed with your application until the required information is submitted. Upon receipt, the division will continue to process your application. The additional information can be faxed, or mailed to the Division. If the necessary information is not submitted, your application will be returned to you.

If you have any questions, please contact me in Santa Fe, at (505) 476-3466.

Sincerely,

David Catanach
Petroleum Engineer



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

July 25, 2001

COPY

Lori Wrotenbery
Director
Oil Conservation Division

Occidental Permian Limited Partnership
P. O. Box 4294
Houston, Texas 77210-4294

Attention: Mr. Mark Stephens

Re: Form C-108 Application
North Hobbs Gb/SA Unit No. 441

OCCIDENTAL
PERMIAN
JUL 30 2001
LAND

Dear Mr. Stephens:

This letter acknowledges the receipt of your administrative application dated July 20, 2001, to convert the North Hobbs Gb/SA Unit Well No. 441, located in Section 23, Township 18 South, Range 37 East, NMPM, Lea County, New Mexico, to an injection well within the waterflood project. The Division received your application on July 24, 2001.

Our preliminary review indicates that the information provided in the application is not sufficient to process the administrative order. The following information is necessary:

a) Administrative Application Checklist

Since the submitted information is insufficient to review, the application was **Ruled Incomplete** on July 25, 2001. Please submit the above stated information by August 1, 2001.

The Division cannot proceed with your application until the required information is submitted. Upon receipt, the division will continue to process your application. The additional information can be faxed, or mailed to the Division. If the necessary information is not submitted, your application will be returned to you.

If you have any questions, please contact me in Santa Fe, at (505) 476-3466.

Sincerely,

David Catanach
Petroleum Engineer

(Note: Only as a last resort & only after repeated attempts by the Division to obtain the necessary information to process the application)



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

7/26/01

Lori Wrotenbery
Director
Oil Conservation Division

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

RE: Proposed:

MC _____
DHC _____
NSL _____
NSP _____
SWD _____
WFX _____
PMX X _____

Gentlemen:

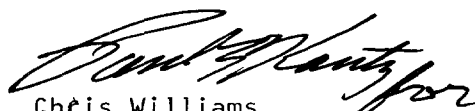
I have examined the application for the:

Occidental Permian LP N Hobbs GB/SA U4 # 441-P-23-18s-37e
Operator Lease & Well No. Unit S-T-R 30-025-05473

and my recommendations are as follows:

Check well 30-025-12487 TOC on liner is approximately
100' above perp-

Yours very truly,


Chris Williams
Supervisor, District 1

OIL CONSERVATION DIVISION

TELEPHONE LOG

COMPANY NAME: Oxy

PROPERTY NAME: NHGSAN

RESPONSIBLE OFFICIAL: Mark Steven

APPLICATION NUMBER: 1205 46331

NAME OF ENGINEER: Ceterach

DATE CALLED: 8/13/01

TIME CALLED: 2:10 PM

NOTES:



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON

Governor

Jennifer A. Salisbury

Cabinet Secretary

Lori Wrotenbery

Director

Oil Conservation Division

July 25, 2001

Occidental Permian Limited Partnership
P. O. Box 4294
Houston, Texas 77210-4294

Attention: Mr. Mark Stephens

Re: Form C-108 Application
North Hobbs Gb/SA Unit No. 441

Dear Mr. Stephens:

This letter acknowledges the receipt of your administrative application dated July 20, 2001, to convert the North Hobbs Gb/SA Unit Well No. 441, located in Section 23, Township 18 South, Range 37 East, NMPM, Lea County, New Mexico, to an injection well within the waterflood project. The Division received your application on July 24, 2001.

Our preliminary review indicates that the information provided in the application is not sufficient to process the administrative order. The following information is necessary:

a) Administrative Application Checklist

Since the submitted information is insufficient to review, the application was **Ruled Incomplete** on July 25, 2001. Please submit the above stated information by August 1, 2001.

The Division cannot proceed with your application until the required information is submitted. Upon receipt, the division will continue to process your application. The additional information can be faxed, or mailed to the Division. If the necessary information is not submitted, your application will be returned to you.

If you have any questions, please contact me in Santa Fe, at (505) 476-3466.

Sincerely,

David Catanach
Petroleum Engineer