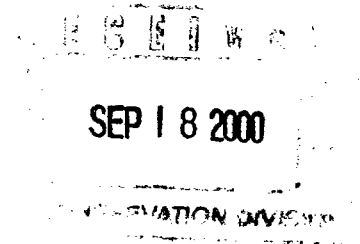




580 WestLake Park Blvd.
Houston, TX 77079
PO Box 4294
Houston, TX 77210-4294
Phone: 281-552-1000

September 14, 2000

State of New Mexico
Energy, Minerals & Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, NM 87505



RE: Expansion of Pressure Maintenance Project
North Hobbs (Grayburg/San Andres) Unit
Hobbs; Grayburg – San Andres Pool
Well No. 332
Letter G, Section 28, T-18-S, R-38-E
Lea County, NM

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. 332 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. 332). 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



Occidental Permian Ltd.

580 WestLake Park Blvd.
Houston, TX 77079
PO Box 4294
Houston, TX 77210-4294
Phone: 281-552-1000

- 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: 9/14/00
- * 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

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, 2040 South Pacheco, 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.

Attachment To Form C-108
Miscellaneous Data

North Hobbs (Grayburg/San Andres) Unit
Well No. 332
Letter G, Section 28, T-18-S, R-38-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 attached – 2 ea.)

- 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.

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

**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 NHU 28332
SAMPLED BY

DATE TAKEN 8/8/00

REMARKS T18S-R38E-Sec28; Qtr Sec 2,3,2

Barium as Ba	0	
Carbonate alkalinity PPM	60	
Bicarbonate alkalinity PPM	212	
pH at Lab	7.44	
Specific Gravity @ 60°F	1	
Magnesium as Mg	169	
Total Hardness as CaCO ₃	292	
Chlorides as Cl	127	
Sulfate as SO ₄	120	
Iron as Fe	0.1	
Potassium	0.1	
Hydrogen Sulfide	0	
Rw	13	@ 23° C
Total Dissolved Solids	815	
Calcium as Ca	123	
Nitrate	3	

Results reported as Parts per Million unless stated

Langelier Saturation Index -0.23

Analysis by: Vickie Walker
Date: 8/11/00

**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 NHU 28332
SAMPLED BY

DATE TAKEN 8/8/00

REMARKS T18S-R38E-Sec28; Qtr Sec 2,3,2

Barium as Ba	0	
Carbonate alkalinity PPM	36	
Bicarbonate alkalinity PPM	228	
pH at Lab	7.52	
Specific Gravity @ 60°F	1	
Magnesium as Mg	162	
Total Hardness as CaCO ₃	280	
Chlorides as Cl	118	
Sulfate as SO ₄	165	
Iron as Fe	0	
Potassium	0.1	
Hydrogen Sulfide	0	
Rw	14	@ 23° C
Total Dissolved Solids	831	
Calcium as Ca	118	
Nitrate	4	

Results reported as Parts per Million unless stated

Langelier Saturation Index -0.05

Analysis by: Vickie Walker
Date: 8/11/00

P.O. Box 1000, Hobbs, NM 88241-1000

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102

Revised February 10, 1994

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

DISTRICT II

P.O. Drawer DD, Artesia, NM 88211-0710

DISTRICT III

1000 Rio Brazos Rd., Artes, NM 87410

DISTRICT IV

P.O. BOX 2088, SANTA FE, N.M. 87504-2088

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-31655		Pool Code 31920	Pool Name HOBBS; GRAYBURG - SAN ANDRES
Property Code 19520	Property Name NORTH HOBBS G/SA UNIT		Well Number 332
OGRID No. 157984	Operator Name Occidental Permian Limited Partnership		Elevation 3638

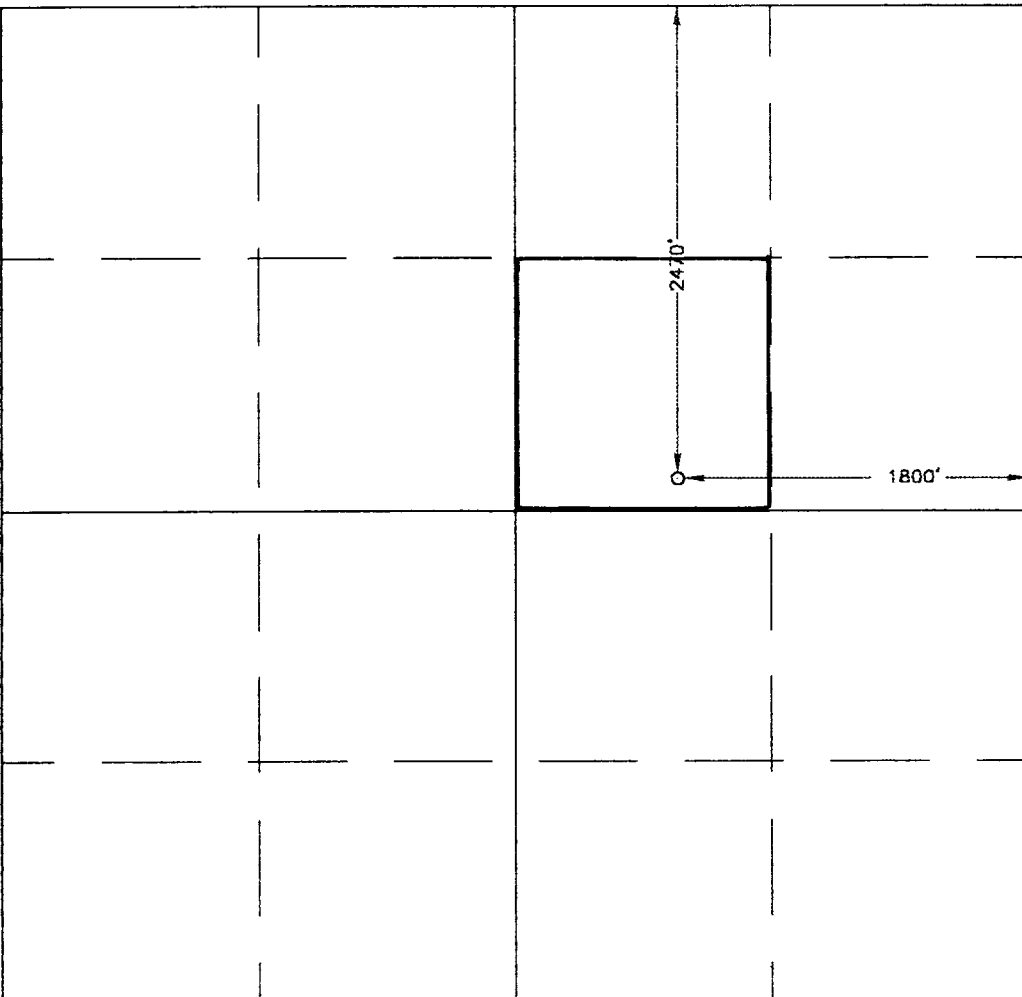
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	28	18 S	38 E		2470	NORTH	1800	EAST	LEA

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
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.						

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

	OPERATOR CERTIFICATION <i>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</i> <u>Mark Stephens</u> Signature <u>Mark Stephens</u> Printed Name <u>Business Analyst (SG)</u> Title <u>September 12, 2000</u> Date 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> JANUARY 6, 2000 Date Surveyed _____ DC Signature & Seal of Professional Surveyor <u>Gary E. McDonald 1/28/2000</u> 00-13-0019 <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Certificate No.</td> <td style="width: 20%;">RONALD J. EIDSON</td> <td style="width: 20%;">3239</td> </tr> <tr> <td></td> <td>GARY EIDSON</td> <td>12641</td> </tr> <tr> <td></td> <td>MACON McDONALD</td> <td>12185</td> </tr> </table>	Certificate No.	RONALD J. EIDSON	3239		GARY EIDSON	12641		MACON McDONALD	12185
Certificate No.	RONALD J. EIDSON	3239								
	GARY EIDSON	12641								
	MACON McDONALD	12185								

DISTRICT I
P.O. Box 1900, Hobbs, NM 88241-1900

DISTRICT II
P.O. Drawer 88, Aramis, NM 88211-0718

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

DISTRICT IV
P.O. Box 2088, Santa Fe, N.M. 87504-2088

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised February 10, 1994
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-31655	Pool Code 31920	Pool Name HOBBS; GRAYBURG - SAN ANDRES
Property Code 19520	Property Name NORTH HOBBS G/SA UNIT	Well Number 332
OGRID No. 157984	Operator Name Occidental Permian Limited Partnership	Elevation 3638

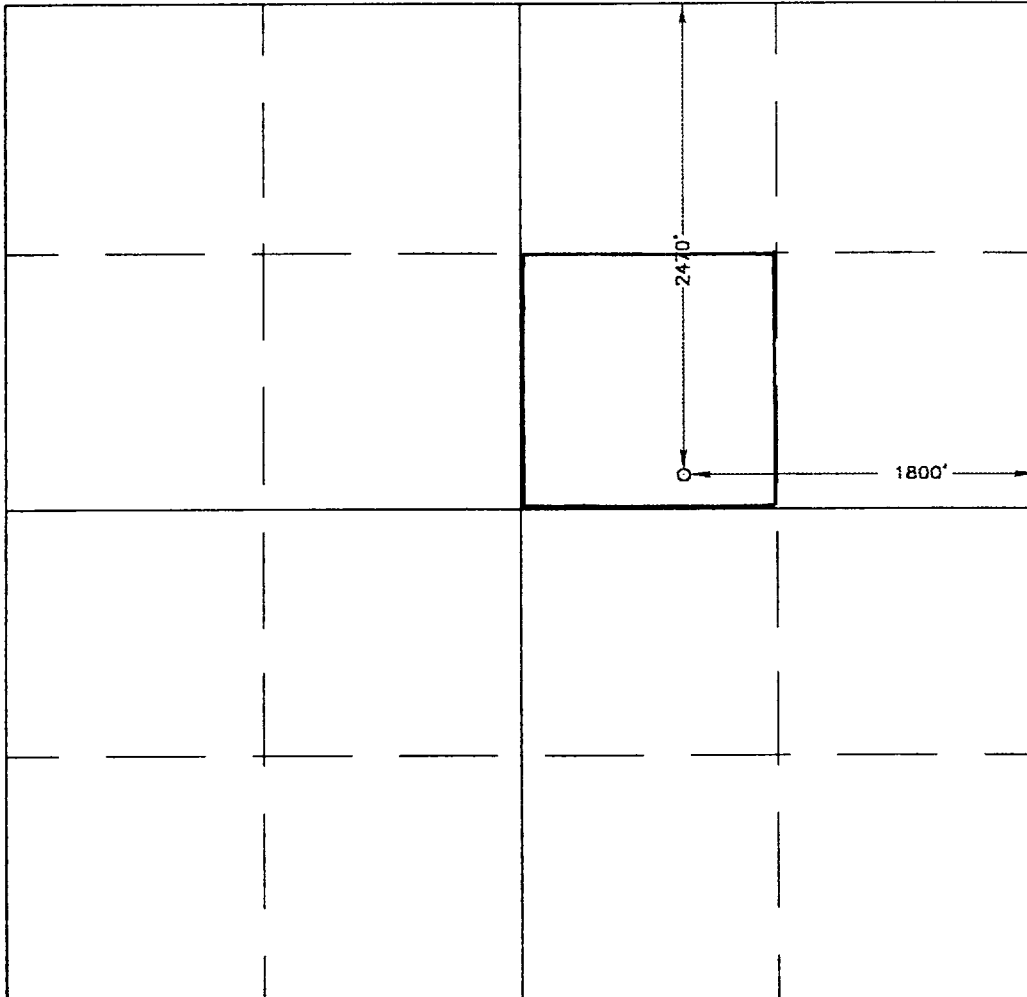
Surface Location

UL or lot No. G	Section 28	Township 18 S	Range 38 E	Lot Idn	Feet from the 2470	North/South line NORTH	Feet from the 1800	East/West line EAST	County LEA
--------------------	---------------	------------------	---------------	---------	-----------------------	---------------------------	-----------------------	------------------------	---------------

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
Dedicated Acres		Joint or Infill	Consolidation Code	Order No.					

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

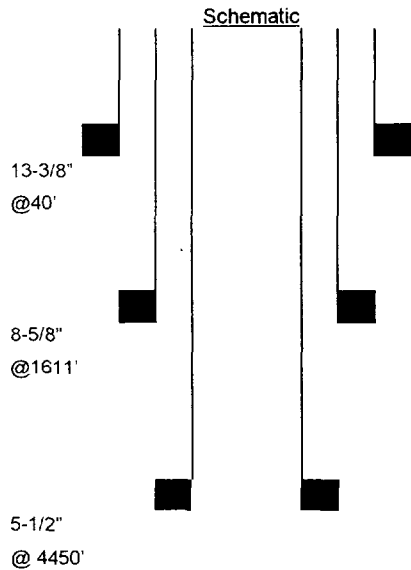
				OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. <u>Mark Stephens</u> Signature Mark Stephens Printed Name Business Analyst (SG) Title September 12, 2000 Date
SURVEYOR CERTIFICATION I hereby certify that the well 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. JANUARY 6, 2000 Date Surveyed Signature & Seal of Professional Surveyor <u>Gary Edson</u> GARY EDSON 12541 WILSON-MCDONALD 12185				

Scale: 1" = 600' 12-29-99 nm438a00.dgn - 12
 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. 28-332	Footage Location 2470' FNL & 1800' FEL	Section 28	Township 18-S	Range 38-E	Unit Letter G/B



<u>Surface Casing</u>		<u>Tubular Data</u>	
Size	13-3/8"	Cemented with	NA sxs.
TOC	SURF	Determined by	NA
Hole size			
<u>Intermediate Casing</u>			
Size	8-5/8"	Cemented with	850 sxs.
TOC	SURF	Determined by	CIRC
Hole size			
<u>Long string Casing</u>			
Size	5-1/2"	Cemented with	850 sxs.
TOC	SURF	Determined by	CIRC
Hole size			
<u>Liner</u>			
Size		Cemented with	sxs.
TOC		Determined by	
Hole size			
Total depth	4455'		

Injection interval
4100 feet to 4300 feet

Completion type Perforated Casing

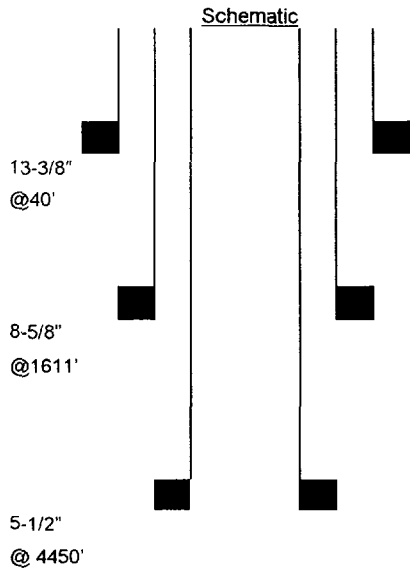
Tubing size 2-7/8" lined with Duoline (Fiberglass liner) set in a
Guiberson – Uni VI packer at 4000' feet
 (brand and model)

Other Data

- Name of the injection formation 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) San Andres : 4198'-4306'
- Give the depth to and name of any overlying and/or underlying oil and gas zones (pools) in this area.
Grayburg – 3270, Glorieta – 5300

INJECTION WELL DATA SHEET

Operator Occidental Permian Limited Partnership		Lease North Hobbs G/SA Unit		County Lea	
Well No. 28-332	Footage Location 2470' FNL & 1800' FEL	Section 28	Township 18-S	Range 38-E	Unit Letter G/B



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TOC	SURF	Determined by	NA
Hole size			
<u>Intermediate Casing</u>			
Size	8-5/8"	Cemented with	850 sxs.
TOC	SURF	Determined by	CIRC
Hole size			
<u>Long string Casing</u>			
Size	5-1/2"	Cemented with	850 sxs.
TOC	SURF	Determined by	CIRC
Hole size			
<u>Liner</u>			
Size		Cemented with	sxs.
TOC		Determined by	
Hole size			

Total depth 4455'

Injection interval
4100 feet to 4300 feet

Completion type Perforated Casing

Tubing size 2-7/8" lined with Duoline (Fiberglass liner) set in a
Guiberson – Uni VI packer at 4000' feet
(brand and model)

Other Data

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- Give the depth to and name of any overlying and/or underlying oil and gas zones (pools) in this area.
Grayburg – 3270, Glorieta – 5300

OFFSET WELLS WITHIN ONE HALF MILE OF PROPOSED INJECTORS

FOR WELLS 28332,29231,29321,30223,32312,32431															
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.
19241	30-025- 07364	19 -18S	-38E	N	9/30	SI	4244	4144	4232	NONE	NONE	12.5	18	246	200
Oxy							PBTD					9.625	12	2750	600
												7	8.75	3975	225
												5.5	7.875	3936-4246	100
19242	30-025- 23481	19 -18S	-38E	N	5/70	P	4186	4276	4179	4020-4058	4192-4196	13.375	17.5	360	360
Oxy												9.625	12.25	3794	500
												5.5	8.75	3537-7103	950
19341	30-025- 12491	19 -18S	-38E	O	9/30	TA	4005	4140	4272	NONE	NONE	9.625	12.25	2750	600
Oxy							CIBP					7	8.75	3975	225
												5.5 Lnr	6.125	3937-4245	100
27121	30-025- 12494	27 -18S	-38E	E	6/36	P	4244	4108	4250	1730	2475	12.5	17.5	270	150
Oxy							PBTD					9.625	12.25	1705	575
												7	8.75	4108	275
27131	30-025- 07410	27 -18S	-38E	L	6/35	P	4252	4034	4252	NONE	NONE	12.5	16.5	259	150
Oxy												9.625	12.25	1645	200
												7	8.75	4075	250
27221	30-025- 30910	27 -18S	-38E	E/L	12/91	I	4509	4430	4495	NONE	NONE	14	17.5	53	NA
Oxy							PBTD					8.625	12.25	1658	850
												5.5	8.875	4546	1035
27231	30-025- 12495	27 -18S	-38E	K	7/37	P	4375	4086	4375	NONE	NONE	13	17.5	274	150
Oxy								OPEN HOLE				9.625	12.25	1718	450
												7	8.75	4086	250
28111	30-025- 07422	28 -18S	-38E	D	7/34	I	4288	4214	4273	4041-4053	4073-4097	15.5	18	296	200
Oxy												10	12.75	2704	150
												7	8.75	3956	250
												4.5	6.25	3913-4234	50
												4172-4182			

** Denotes calculated TOC with 50% efficiency

OFFSET WELLS WITHIN ONE HALF MILE OF PROPOSED INJECTORS

Well Name	API No.	Sec.	T	R	Un	Drill Date	Well Type	TD or PBT	Top Perf	Bot. Perf	Sqz. Perfs	Csg. Size	Hole Size	Depth	No. of Sxs.	TOC
Operator					Ltr											
28121	30-025- 07420	28 -18S	-38E	E	9/30	P	4247	4139	4233		NONE	12.5	16	228	245	CIRC**
Oxy							PBTD					9.625	11.75	2750	700	CIRC**
												7	8.75	3942	300	3065-CBL
												4.5	6.25	3893-4250	65	3893-CBL
28122																
Oxy	30-025- 28964	28 -18S	-38E	E	12/84	P	4326	4034	4264		NONE	13.375	17.5	40	NA	NA
							Cmt					8.625	12.25	1525	675	CIRC
												5.5	7.875	4384	740	300-CBL
28131	30-025- 12497	28 -18S	-38E	L	9/30	P	4263	4048	4263		3190-3202	12.5	16	238	200	CIRC
Oxy											4124-4151	9.625	12	2751	600	CIRC
												7	8.75	3973	225	3086-CBL
												5.5	7.875	3932-4233	100	3932-CBL
28132	30-025- 23277	28 -18S	-38E	L	11/69	P	4257	4019	4255		4144-4146	13.375	17.5	352	200	CIRC
Oxy							PBTD				4158-4172	9.625	12	3816	1400	1922
												7	8.75	3611-7143	335	3611
28141	30-025- 12496	28 -18S	-38E	M	9/30	P	4228	4066	4220		4033	12.5	16	236	225	CIRC
Oxy							CIBP				4035	9.625	12	2750	475	CIRC
											4038	7	8.75	3960	350	2450
											4040	5	6.5	4228	65	2990
28142	30-025- 23246	28 -18S	-38E	M	10/69	P	4030	3890	3968		NONE	13.375	17.5	372	350	CIRC
Oxy							PBTD					9.625	12.25	3787	1400	CIRC**
												7	8.75	3589-7102	720	CIRC
28211	30-025- 07425	28 -18S	-38E	C	9/35	I	4171	4036	4262		NONE	15.5	18	243	300	CIRC
Oxy												10.75	15	2733	200	2400**
												7	8.75	4036	680	2715-TS
28311	30-025- 07417	28 -18S	-38E	B	7/35	I	4264	4090	4264		NONE	12.5	16	235	150	CIRC**
Oxy												7	8.75	4103	500	2820-CBL
28321	30-025- 07416	28 -18S	-38E	G	2/35	P	4234	4000	4260		NONE	12.5	16	264	150	CIRC

** Denotes calculated TOC with 50% efficiency

OFFSET WELLS WITHIN ONE HALF MILE OF PROPOSED INJECTORS

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			PBTD				7	8.75	4000	500	976**
Oxy																
28331	30-025- 07412	28	-18S	-38E	J	5/35	P	4280	4015	4268	4081-4093	10.75	13.5	245	150	CIRC
Oxy												7.625	9.625	1635	300	186
												5.5	6.25	4015	300	2662-CBL
												4.5	6.5	3987-4280	100	3987
28411	30-025- 07419	28	-18S	-38E	A	4/36	P	4223	4133	4225	15	12.5	16	227	160	CIRC**
Oxy								PBTD			17	7	8.75	4133	750	2550-CBL
											475					
28421	30-025- 07418	28	-18S	-38E	H	5/35	TA	4262	4020	4262	NONE	12.5	16	235	150	CIRC
Oxy												7	8.75	4020	200	2677-CBL
28422	30-025- 27243	28	-18S	-38E	H	5/48	I	4470	4239	4268	4222-4228	16	20	40	40	CIRC
Oxy											4242-4244	8.625	12.25	1600	850	CIRC
											4252-4256	5.5	7.875	4503	1050	CIRC
											4269-4271					
28431	30-025- 07413	28	-18S	-38E	I	8/35	P	4225	3993	4218	2660	10.75	13.5	225	150	CIRC**
Oxy												7.625	9.625	1640	400	CIRC**
												5.5	7.875	3993	400	2698-CBL
28441	30-025- 07411	28	-18S	-38E	P	1/35	I	4272	4102	4257	NONE	10.75	13.5	243	150	CIRC
Oxy								PBTD				7.625	9.625	1634	300	185
												5.5	6.25	4015	300	CIRC
29111	30-025- 23919	29	-18S	-38E	D	12/71	P	4287	4183	4287	3905-4250	8.625	11	310	150	CIRC
Oxy								PBTD				5.5	7.875	3905	300	2427**
29121	30-025- 07449	29	-18S	-38E	E	3/47	P	4275	3924	4275	4070-85	9.625	12.25	2739	650	890
Oxy											4110-20	7	8.75	3104	100	2640 CBL
											4130-50	4.5 Lnr	6.25	2900-4201	100	2900
29122	30-025- 28953	29	-18S	-38E	E	2/85	I	4215	4154	4211	NONE	13.375	17.5	40	NA	CIRC
Oxy								(CIBP)				8.625	11	1510	785	CIRC
												5.5	7.875	4370	435	CIRC

** Denotes calculated TOC with 50% efficiency

OFFSET WELLS WITHIN ONE HALF MILE OF PROPOSED INJECTORS

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
29131 Oxy	30-025- 07447	29	-18S	-38E	L	10/30	P	4168 PBTD	4050	4210	NONE	12.5 9.625 7 5	18 12 8.75 6.125	225 2750 3976 3870-4220	250 650 300 50	CIRC 660** 1504-CBL 3930-CBL
29132 Oxy	30-025- 26917	29	-18S	-38E	L	12/80	I	4470 PBTD	4025	4245	NONE	16 8.625 5.5	20 12.25 7.875	40 1595 4510	40 785 900	CIRC CIRC CIRC**
29141 Oxy	30-025- 07448	29	-18S	-38E	M	8/30	I	4238 PBTD	3690	4228	3960-4108 4033-4053	12.5 9.625 7 5.5 4.5	18 12 8.75 7.875 6.25	203 2736 3960 3941 3417-4238	200 650 300 250 50	CIRC 1000** 1850** 3460-CBL 3774-CBL
29211 Oxy	30-025- 07433	29	-18S	-38E	C	11/30	TA	4003 CIBP	4217	4270	4053-4150 4180-4200 4211-4215	12.5 9.625 7 5.5	18 12 8.75 6.25	243 2796 4007 3957-4238	250 400 500 50	CIRC CIRC 3014** 3957
29221 Oxy	30-025- 07430	29	-18S	-38E	F	9/30	P	4210 PBTD	4118	4176	4154-4162 4175-4185 4195-4200 4213-4267	12.5 9.625 7 4.5	18 12 8.75 6.125	210 2704 3979 3910-4213	200 400 500 50	CIRC 1236 2753 3910
29222 Oxy	30-025- 26934	29	-18S	-38E	F	4/81	I	4465	4175	4265	NONE	16 8.625 5.5	20 12.25 7.875	40 1605 4510	40 950 1050	CIRC CIRC CIRC
29231 Oxy	30-025- 07438	29	-18S	-38E	K	10/30	P	4255	4106	4255	NONE	15.5 9.625 7 5	18 12.25 8.75 6.25	252 2729 3953 3906-4220	1000 600 300 50	CIRC** CIRC 2718 3906
29241 Oxy	30-025- 07437	29	-18S	-38E	N	10/30	I	4255	4076	4239	NONE	12.5 9.625 7	18 12 8.75	217 2730 3929	160 500 350	CIRC 895 1850

** Denotes calculated TOC with 50% efficiency

OFFSET WELLS WITHIN ONE HALF MILE OF PROPOSED INJECTORS

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
												5.5	7.875	3822-4299	60	3822
29242 Oxy	30-025- 28413	29 -18S	-38E	N	3/84	P	4370	4005	4257		4019	16	20	30	NA	CIRC
											4037	8.625	12.25	1511	750	CIRC
											4040	5.5	7.875	4368	750	2330
29311 Oxy	30-025- 07432	29 -18S	-38E	B	10/30	P	4269	4044	4269		4090-4110	12.5	16	241	250	113
											4171	9.625	11.75	2776	400	2750
												7	8.75	4008	500	2949
												5.5	6.25	3921-4234	350	3786
29321 Oxy	30-025- 07431	29 -18S	-38E	G	9/30	P	4301	4137	4271		3895	12.5	16	211	250	CIRC
							PBTD				4100	9.625	11.75	2756	250	921
												7	8.75	3995	300	2930-CBL
												5	6.25	3812-4308	100	3894-CBL
29322 Oxy	30-025- 28883	29 -18S	-38E	G	11/84	I	4342	4160	4256		NONE	13.375	17.5	40	NA	CIRC
							PBTD					8.625	12.25	1520	620	CIRC
												5.5	7.875	4384	850	CIRC
29323 Oxy	30-025- 28941	29 -18S	-38E	G	1/85	P	4180	3089	4272		NONE	13.375	17.5	40	NA	CIRC
							PBTD					8.625	12.25	1542	375	CIRC
												5.5	7.875	4370	450	575-CBL
29331 Oxy	30-025- 07436	29 -18S	-38E	J	9/30	I	4261	4100	4258		4044-4065	9.625	11.75	2742	500	907
												7	8.75	3929	300	2115
												4.5	6.25	4270	750	3788 CBL
29341 Oxy	30-025- 07445	29 -18S	-38E	O	10/30	P	4090	4050	4146		4010-4035	13.375	15	210	150	CIRC**
							PBTD					9.625	12	2750	700	CIRC**
												7	8.75	3934	300	3430-CBL
												5	6.25	4162	350	CIRC
29342 Oxy	30-025- 28884	29 -18S	-38E	O	11/84	I	4375	4083	4250		NONE	13.375	17.5	40	NA	NA
												8.625	12.25	1520	620	CIRC
												5.5	7.875	4375	875	CIRC
29411	30-025- 07454	29 -18S	-38E	A	10/30	I	4335	4200	4335		4102-4137	12.5	16	245	250	CIRC

** Denotes calculated TOC with 50% efficiency

OFFSET WELLS WITHIN ONE HALF MILE OF PROPOSED INJECTORS

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
Oxy											4057-4091 4154-4158	9.625 7 5.5	11.75 8.75 6.25	2750 4045 3941-4223	650 300 30	365** 2231** 3941**
29431 Oxy	30-025- 07458	29 -18S	-38E	I	10/30	P	4227 PBTD	4155	4225	4266	4010 4075	15.5 9.625 7 5.5	18 12.25 8.75 6.25	228 2720 3900 3209-4229	200 600 400 120	CIRC** 978** 2086** 3209**
29441 Oxy	30-025- 07444	29 -18S	-38E	P	10/30	P	4211 PBTD	4058	4266	4266	4020-4028	13.375 9.625 7 5	18 12 8.75 6.5	232 2743 3950 4172	150 1400 300 22	CIRC** CIRC** 3240-CBL 4020
29442 Oxy	30-025- 28885	29 -18S	-38E	P	2/85	I	4237 CIBP	4065	4210	4210	4031 4036	13.375 9.625 7	17.5 12.25 7.875	40 1536 4370	NA 575 1100	CIRC CIRC CIRC
29544 Oxy	30-025- 34644	29 -18S	-38E	P	7/99	P	4359 PBTD	4124	4256	4256	NONE	14 8.625 5.5	18 12.25 7.875	40 1565 4400	50 725 775	CIRC CIRC CIRC
30112 Oxy	30-025- 29063	30 -18S	-38E	D	3/85	TA	4000 CIBP	4034	4264	4264	NONE	13.375 9.625 7	17.5 12.25 8.75	40 1520 4369	NA 250 675	NA CIRC CIRC
30113 Oxy	30-025- 29064	30 -18S	-38E	D	1/85	P	4310 CIBP	4042	4285	4285	NONE	13.375 8.625 5.5	17.5 1495 7.875	55 1495 4370	NA 620 990	CIRC CIRC CIRC
30121 Oxy	30-025- 07464	30 -18S	-38E	E	9/30	I	4115 PBTD	4160	4271	4271	4042-4096	12.5 9.625 7 5	16 11.75 8.75 6.125	212 2749 3994 3841-4312	200 400 425 40	CIRC** 1281** 2738-CBL CIRC-CBL
30131 Oxy	30-025- 07481	30 -18S	-38E	L	10/30	P	4256 CIBP	4082	4270	4270	4006-70 4116-40	9.625 7	11.75 8.75	2751 3900	550 350	733 1783

** Denotes calculated TOC with 50% efficiency

OFFSET WELLS WITHIN ONE HALF MILE OF PROPOSED INJECTORS

Well Name Operator	API No.	Sec.	T	R	Un Ltr	Drill Date	Well Type	TD or PBT	Top Perf	Bot. Perf	Sqz. Perfs	Csg. Size	Hole Size	Depth	No. of Sxs.	TOC
											4182-4200	5	6.25	4207	50	3770 CBL
30211 Oxy	30-025- 07463	30	-18S	-38E	C	8/30	P	4254	4149	4250	4078 4086 4100	9.625 6.625 5 Lnr	12.25 7.875 6.5	2647 3972 3867-4310	400 250 100	2940** 3130 CBL CIRC**
30221 Oxy	30-025- 07462	30	-18S	-38E	F	4/30	P	4279	4072	4208-79 OH	4023-4025 4081-4104 4120-4128	9.625 7 4.5 Lnr	11.75 8.25 6.25	2750 3852 3799-4207	535 250 125	787 1500 CBL 3799
30222 Oxy	30-025- 26833	30	-18S	-38E	F	10/80	I	4290 CIBP	4123	4302	3718 4322-29	16 8.625 5.5	20 12.25 7.875	40 1570 4349	40 950 800	CIRC CIRC 2608 CBL
30231	30-025- 07479	30	-18S	-38E	K	7/30	TA	4015	4119	4256	943-955 4166-4190	20 9.625 7 5	22 12.25 8.75 6.25	215 2750 3930 4200	75 400 550 60	67 1589 604 3193-CBL
30232 Oxy	30-025- 26935	30	-18S	-38E	K	12/80	I	4519	4138	4310	4170-78 4186-94	16 8.625 5.5	18 11 7.875	40 1600 4555	40 875 1155	CIRC CIRC 2614 CBL
30233 Oxy	30-025- 28942	30	-18S	-38E	K	2/85	P	4210	4148	4240	NONE	13.375 8.625 5.5 2.375	17.5 11 7.875 5	55 1507 4383 4060	NA 620 1070 NA	NA CIRC CIRC NA
30311	30-025- 07469	30	-18S	-38E	B	8/30	TA	3950 RBP	3998	4121	2601	13.5 9.625 7	16 11.75 8.75	245 2753 3998	200 600 250	CIRC 551 3154
30312 Oxy	30-025- 29197	30	-18S	-38E	B	5/85	P	4380	4215	4333	NONE	13.375 9.625 7	17.5 12.25 8.75	40 1500 4431	NA 650 700	NA CIRC CIRC
30313	30-025- 23270	30	-18S	-38E	B	11/69	TA	4065	5871	5951	5805-53	13.375	17.5	382	400	CIRC

** Denotes calculated TOC with 50% efficiency

OFFSET WELLS WITHIN ONE HALF MILE OF PROPOSED INJECTORS

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
Oxy								CIBP				8.625	12.25	3849	1256	600
												5.5	7.875	6047	570	1500
30321	30-025- 07467	30	-18S	-38E	G	7/1/30	P	4257	4130	4196	4030-60	9.625	11.75	2755	600	553
Oxy												7	8.75	3854	250	2342
												5	7	4200	405	CIRC/CBL
30331	30-025- 07472	30	-18S	-38E	J	8/1/30	P	4238	4014	4225	4068-4072 4074-4092	12.5	15	242	225	CIRC
Oxy												9.625	12	2750	650	CIRC
												7	8.75	3960	300	CIRC
												5.5	6.125	4238	30	3650
30332	30-025- 28954	30	-18S	-38E	J	5/1/85	I	4323	4127	4236	NONE	13.375	17.5	40	NA	NA
Oxy								PBTD				9.625	12.25	1503	650	CIRC
												7	8.75	4371	800	CIRC
30333	30-025- 28955	30	-18S	-38E	J	2/1/85	I	4328	4137	4290	NONE	13.375	17.5	40	NA	NA
Oxy												8.625	12.25	1579	425	CIRC
												5.5	7.875	4370	500	CIRC
30412	30-025- 23384	30	-18S	-38E	A	1/1/70	P	4440	4009	4261	4142-4200	13.375	17.5	379	400	CIRC
Oxy								PBTD				9.625	12.25	3848	1200	75
												7	8.75	7106	865	3400
30421	30-025- 07468	30	-18S	-38E	H	7/1/30	P	4258	4114	4258	NONE	12.5	16	251	200	CIRC
Oxy												9.625	11.75	2756	600	554
												7	8.75	3858	250	CIRC
												5	6.25	4202	450	CIRC
30422	30-025- 27059	30	-18S	-38E	H	5/1/81	I	4477	4110	4265	4108-23	16	20	40	40	CIRC
Oxy												8.625	12.25	1524	850	CIRC
												5.5	7.875	4510	1000	2500 CBL
30431	30-025- 07474	30	-18S	-38E	I	8/1/30	P	4213	4085	4201	4034-4035	12.5	16	214	200	CIRC**
Oxy								PBTD				9.625	11.75	2750	650	CIRC**
												7	8.75	3975	300	2009**

** Denotes calculated TOC with 50% efficiency

OFFSET WELLS WITHIN ONE HALF MILE OF PROPOSED INJECTORS

Well Name	API No.	Sec.	T	R	Un	Drill Date	Well Type	TD or PBT	Top Perf	Bot. Perf	Sqz. Perfs	Csg. Size	Hole Size	Depth	No. of Sxs.	TOC
Operator					Ltr											
30432	30-025- 28957	30	-18S	-38E	I	12/84	I	4325	4110	4266	NONE	13.375	17.5	55	RED/MIX	CIRC
Oxy								PBTD				8.625	12.25	1490	370	CIRC
												5.5	7.875	4370	350	CIRC
30443	30-025- 28958	30	-18S	-38E	P	12/84	I	4290	4094	4247	NONE	13.375	17.5	40	54	CIRC
Oxy								PBTD				8.625	12.25	1470	425	440-TS
												5.5	5.5	4370	340	858-CBL
32211	30-025- 07525	32	-18S	-38E	C	4/31	P	4252	4083	4206	NONE	13.375	17	189	200	CIRC**
Oxy												9.625	12.25	2736	600	977**
												6.625	8.75	3860	300	2210-CBL
32212	30-025- 30258	32	-18S	-38E	C	4/88	P	4303	4135	4256	NONE	14	17	53	NA	NA
Oxy								PBTD				9.625	12.25	1504	650	CIRC
												7	8.75	4348	1150	CIRC
32221	30-025- 07520	32	-18S	-38E	F	8/30	P	4215	4084	4252	3940-4065	12.5	16	207	200	CIRC**
Oxy								CMT				9.625	12.25	2752	600	333**
												6.625	8.75	3940	200	2892-CBL
												4.5	6.25	3748-4289	65	CIRC
32231	30-025- 07521	32	-18S	-38E	K	8/30	P	4030	3876	4222	4068-4083	15.5	17.5	207	200	CIRC
Oxy								PBTD			4109-4168	9.625	12.25	2738	600	996
												7	8.75	3946	300	2246
												4	6.25	3701-4194	90	3701
32313	30-025- 30263	32	-18S	-38E	B	4/88	P	4300	4120	4229	NONE	14	17	53	NA	NA
Oxy								PBTD				9.625	12.25	1510	650	CIRC
												7	8.75	4346	1250	CIRC
32321	30-025- 12506	32	-18S	-38E	G	8/30	I	4220	4114	4200	3145-3150	12.5	16	230	225	CIRC**
								PBTD			3156-3172	9	12.25	2759	600	983**
											3881-3942	6.625	8.75	3950	225	2472-CBL
											3971-4247					
32322	30-025- 07518	32	-18S	-38E	G	9/30	P	4250	4148	4210	4035-4037	12.5	16	240	200	CIRC**
Oxy								PBTD			4054-4076	9.625	12.25	2750	600	330**
												7	8.75	3960	225	2900-CBL

** Denotes calculated TOC with 50% efficiency

OFFSET WELLS WITHIN ONE HALF MILE OF PROPOSED INJECTORS

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
												5.5	7.875	3911-4217	100	3973-CBL
32323 Oxy	30-025- 26973		32 -18S	-38E	G	12/80	I	4292 PBTD	4062	4276	4293-4332	16 8.625 5.5	20 12.25 7.875	40 1600 4400	40 1000 920	CIRC CIRC 3624-CBL
32331 Oxy	30-025- 07538		32 -18S	-38E	J	9/30	I	4220 PBTD	3940	4200	1414 2670 3964-3997 4050-4261	15.5 9.625 7 5	18 11.75 8.75 6.25	300 2750 3940 4247	250 300 700 750	CIRC 915** CIRC 2430-CBL
32332 Oxy	30-025- 29173		32 -18S	-38E	J	4/85	P	4310 PBTD	4055	4208	4019-4021	13.375 9.625 7	17.5 12.25 8.75	40 1534 4356	NA 680 875	NA CIRC CIRC
32342 Oxy	30-025- 28266		32 -18S	-38E	O/A	10/83	I	4380	4091	4283	NONE	16 8.625 5.5	20 12.25 7.875	30 1522 4380	40 700 650	CIRC CIRC CIRC**
32343 Oxy	30-025- 29906		32 -18S	-38E	O	6/87	P	4220 PBTD	4141	4208	4000-4002 4224-4035	14 9.625 7	18 12.25 8.75	40 1498 4370	NA 1400 1350	NA CIRC CIRC
32411 Oxy	30-025- 07516		32 -18S	-38E	A	9/30	P	4272	3939	4160	NONE	12.5 9.625 7	16 11.75 8.75	224 2740 3939	200 400 500	CIRC** 1272** 2690-CBL
32421 Oxy	30-025- 07517		32 -18S	-38E	H	8/30	P	4210 PBTD	4092	4202	4046-4056 4158-4192 4203-4218	12.5 9.625 7 5.5	16 12 8.75 7.875	245 2755 3950 3916-4219	200 600 225 125	CIRC** CIRC** 2385-CBL CIRC**
32422 Oxy	30-025- 29074		32 -18S	-38E	H	3/85	P	4257 PBTD	3874	4222	4047-4057 4090	13.375 9.625 7	17.5 12.25 8.75	40 1538 4369	NA 425 570	NA CIRC 1470
32423	30-025- 29198		32 -18S	-38E	H	5/85	I	4328	4051	4235	NONE	13.375	17.5	40	NA	NA

** Denotes calculated TOC with 50% efficiency

OFFSET WELLS WITHIN ONE HALF MILE OF PROPOSED INJECTORS

Well Name Operator	API No.	Sec.	T	R	Un Ltr	Drill Date	Well Type	TD or PBD	Top Perf	Bot. Perf	Sqz. Perfs	Csg. Size	Hole Size	Depth	No. of Sxs.	TOC
Oxy												9.625 7	12.25 8.75	1508 4379	580 925	CIRC CIRC
32424 Oxy	30-025- 23130	32 -18S	-38E	H			P	5210 PBD	4128	4244	NONE	13.375 8.625 5.5	17.5 12.25 7.875	350 3790 3580-7015	350 1300 650	CIRC** CIRC** 3580**
32432 Oxy	30-025- 26974	32 -18S	-38E	I	10//80		I	4216 CMT	4062	4214	4227-4252	16 8.625 5.5	20 12.25 7.875	40 1600 4400	40 850 950	CIRC CIRC CIRC
32441 Oxy	30-025- 07536	32 -18S	-38E	P	8//30		P	4244	4112	4244	4060-4087	12.5 9.625 7 5	16 12.25 8.75 6.25	188 2750 3971 4234	125 400 250 60	CIRC 1595** 2662** 3500-CBL
32531 Oxy	30-025- 34374	32 -18S	-38E	J	6//98		P	4354 PBD	4098	4233	4052-4075	14 8.625 5.5	18 12.25 7.875	40 1553 4400	50 800 1000	CIRC** CIRC CIRC**
32542 Oxy	30-025- 34375	32 -18S	-38E	I	7//98		P	4444 PBD	4105	4250	NONE	14 8.625 5.5	18 12.25 7.875	40 1581 4600	50 800 1000	CIRC** CIRC CIRC
33111 Oxy	30-025- 12505	33 -18S	-38E	D	9//30		P	4160 PBD	4050	4176	4011-4021 4041-4048 4061-4070 4130-4136 4142-4149 4150-4166 4171-4172	12.5 9.625 7 5.5	16 11.75 8.75 7.875	240 2750 3968 3923-4236	200 600 225 95	CIRC CIRC 2520-CBL CIRC**
33121 Oxy	30-025- 07559	33 -18S	-38E	E	8//30		P	4279	4053	4223	NONE	12.5 9.625 7 4.5	16 11.75 8.75 6.25	184 2755 3951 4279	NA NA 250 175	NA NA 2632** 2730-CBL
33123	30-025- 23263	33 -18S	-38E	E	9//69		P	6215	4051	6933	NONE	13.375	17.5	425	400	CIRC

** Denotes calculated TOC with 50% efficiency

OFFSET WELLS WITHIN ONE HALF MILE OF PROPOSED INJECTORS

Well Name Operator	API No.	Sec.	T	R	Un Ltr	Drill Date	Well Type	TD or PBD	Top Perf	Bot. Perf	Sqz. Perfs	Csg. Size	Hole Size	Depth	No. of Sxs.	TOC
Oxy								PBTD				9.625 7	12.25 8.75	3958 7040	550 700	1640** 3500-TS
33141 Oxy	30-025- 07543	33 -18S	-38E	M	9/30	P	4254 PBTD	4062	4249		NONE	12.5 9.625 7 5	16 11.75 8.75 6.25	209 2738 3976 3828-4261	165 500 275 45	CIRC 903** 2313** 3828
33142 Oxy	30-025- 28411	33 -18S	-38E	M	12/83	I	4296 PBTD	4067	4236		4027 4040 4068-4116	16 8.625 5.5	20 12.25 7.875	40 1540 4370	NA 750 910	CIRC CIRC 320-CBL
33221 Oxy	30-025- 07560	33 -18S	-38E	F	9/30	I	4185 CIBP	4047	4230		606 3145-3146 4043-4052	12.5 9.625 7 5	16 11.75 8.75 6.25	237 2770 4012 4242	125 400 275 100	CIRC CIRC CIRC 2850-CBL
33222 Oxy	30-025- 26975	33 -18S	-38E	F	10/80	I	4322 CIBP	4054	4276		4206-4210 4214-4218	16 8.625 5.5	20 12.25 7.875	40 1600 4400	40 800 1100	CIRC CIRC CIRC
33231 Oxy	30-025- 07545	33 -18S	-38E	K	10/30	I	4259	4042	4228		4043-4050	15.5 9.625 7 5	18 12.25 8.75 6.25	183 2732 3946 3860-4235	250 600 310 50	CIRC 990** 2860-CBL 3871
33232 Oxy	30-025- 26834	33 -18S	-38E	K	9/80	I	4395 PBTD	4130	4148		4050-4054 4096-4101	16 8.625 5.5	20 12.25 7.875	40 1590 4439	40 700 750	CIRC CIRC CIRC
State A #1 Oxy	30-025- 12504	32 -18S	-38E	G	6/30	P	3750 PBTD	3585	3685		NONE	12.5 9 7	16.5 12.25 8.75	222 2755 3850	135 600 200	CIRC** 977** 3139**
State A #6 Oxy	30-025- 22944	32 -18S	-38E	G	4/69	P	5861	5805	5929		NONE	13.375 8.625 5.5	17.5 11.75 7.875	357 3820 3566	350 800 500	CIRC CIRC CIRC

** Denotes calculated TOC with 50% efficiency

OFFSET WELLS WITHIN ONE HALF MILE OF PROPOSED INJECTORS

Well Name	API No.	Sec.	T	R	Un	Drill	Well	TD or	Top	Bot.	Sqz.	Csg.	Hole	Depth	No. of	TOC
Operator					Ltr	Date	Type	PBTD	Perf	Perf	Perfs	Size	Size		Sxs.	
State B #1	30-025- 12505	33	-18S	-38E												
Now 33111																
Oxy																
State G #6	30-025- 23334	33	-18S	-38E	F	11/69	P	6441	6204	6148	450-452	11.75	17.5	420	540	CIRC
Oxy								PBTD			3410-3412	8.625	11	1831	370	1831-TS
											5930-5962	5.5	7.875	6009	400	3500-TS
												4	4.75	5815-7041	75	5815**
27111	30-025- 23375	27	-18S	-38E	D	2/77	PA	4077	4161	4360	NONE	8.625	12.25	347	275	CIRC**
Oxy								PBTD				5.5	7.875	4222	450	2676-CBL
29421	30-025- 07459	29	-18S	-38E	H	11/30	PA	308	3880	4232	NONE	12.5	16	220	200	CIRC**
Oxy								CICR				9.625	11.75	2720	600	518**
												7	8.75	3880	300	2914-CBL
												5.5	6.25	3796-4236	50	3866
32311	30-025- 07515	32	-18S	-38E	B	8/30	PA	2700	3938	4160	NONE	12.5	16	207	200	CIRC**
								PBTD				9.625	11.75	2739	425	1179**
												6.625	8.75	3938	350	2740-CBL
State A #5	30-025- 08409	32	-18S	-38E	H	10/48	PA	2200	NA	NA	NONE	8.625	11	391	200	CIRC**
Oxy								CMT				5.5	7.75	3120	800	CIRC**
State B #4	30-025- 12508	33	-18S	-38E	D	12/47	PA	3192	3145	3186	NONE	8.625	11	413	200	CIRC**
Oxy												4.5	7.875	3120	850	CIRC**
State G #4	30-025- 07563	33	-18S	-38E	E	12/49	PA	3210	3187	3190	NONE	10.75	15	448	400	CIRC
Oxy												5.5	7.375	3108	800	CIRC

** Denotes calculated TOC with 50% efficiency

OFFSET WELLS WITHIN ONE HALF MILE OF PROPOSED INJECTORS

FOR WELLS 28332,29231,29321,30223,32312,32431																
Well Name Operator	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
St A #4 Amerada	30-025- 23076	32	-18S	-38E	B	4//69	TA	5325 CIBP	5375	5966	NA	11.75 8.625 5.5	15 11 7.875	380 3810 5998	350 590 325	CIRC 2400 5281**
St A #5 Amerada	30-025- 23116	32	-18S	-38E	A	6//69	P	6954	6674	6936	NA	11.75 8.625 5.5	15 11 7.875	385 3798 7000	400 590 501	CIRC** 1099** 4772**
State B #5 Collins & Ware	30-025- 07434	29	-18S	-38E	G	12//48	P	3224	3136	3224	1680-1682	10.75 7.625 5.5	13.75 9.875 6.75	220 1665 3136	200 300 300	CIRC** CIRC** CIRC**
State B #6 Collins & Ware	30-025- 07435	29	-18S	-38E	F	1//47	P	3219	3137	3219	NONE	7.625 5.5	9.875 6.75	414 3137	200 394	390 CIRC**
St I #5 Texland Pet.	30-025- 23173	29	-18S	-38E	O	7//69	P	6970	6648	6930	NONE	8.625 6.625 5.5	12.25 8.75 7.875	3808 3575 7022	300 530 NA	3418** CIRC** NA
State A #7 Conoco	30-025- 22934	29	-18S	-38E	N	2//69	P	6050	5823	5941	NONE	11.75 8.625 5.5	15 11 7.875	360 3800 6050	250 240 405	CIRC** 2515-TS 3300-TS
State A #8 Conoco	30-025- 23048	29	-18S	-38E	K	4//69	TA	3567 CIBP	3652	5787	5824-5924	11.75 8.625 5.5	15 11 7.875	360 3800 5960	250 240 405	CIRC** 3064** 4309**
State A-33 # 12 Conoco/Brothers Prod.	30-025- 23195	33	-18S	-38E	L	9//69	P	6985 PBTD	6686	6946	NONE	13.375 9.625 7	17.5 12.5 8.75	422 3750 7018	375 325 525	CIRC 2850 3700

** Denotes calculated TOC with 50% efficiency

OFFSET WELLS WITHIN ONE HALF MILE OF PROPOSED INJECTORS

Well Name	API No.	Sec.	T	R	Un	Drill Date	Well Type	TD or	Top Perf	Bot. Perf	Sqz. Perfs	Csg. Size	Hole Size	Depth	No. of Sxs.	TOC
Bowers A Fed. #28	30-025- 23022	29	-18S	-38E	M	4//69	P	5345 CIBP	5856	5928	NONE	11.75	15	374	300	CIRC**
Exxon												8.625	11	3850	500	1879**
												5.5	7.875	5989	450	3838**
Bowers A Fed. #29	30-025- 23131	29	-18S	-38E	L	5//69	P	6000	5808	5889	NONE	11.75	15	370	300	CIRC**
Exxon												8.625	11	3849	500	1877**
												4.5	7.875	6000	450	5087**
Bowers A Fed. #38	30-025- 28580	30	-18S	-38E	I	4//84	P	7006	6764	6962	NONE	13.375	17.5	1476	1220	CIRC
Exxon												10.75	12.25	4491	1650	CIRC
												5.5	7.875	7000	660	4985
WD Grimes #6	30-025- 23400	29	-18S	-38E	I	2//70	P	7018	6631	6984	NONE	13.375	17.5	377	400	CIRC**
Lewis B. Burleson								PBTD				9.625	12.25	3847	2300	CIRC**
												7	8.75	7049	540	3458**
HD McKinley #8	30-025- 23151	30	-18S	-38E	H	6//69	P	5615	3676	3754	NONE	13.375	17.5	360	340	CIRC
Getty												8.625	11	3842	1400	CIRC
												5.5	7.875	6057	650	3300
HD McKinley #9	30-025- 23221	30	-18S	-38E	G	8//69	TA	6961	5761	6965	NONE	13.375	17.5	378	400	CIRC**
Getty								CIBP				9.625	12.25	3851	1748	CIRC**
												7	8.75	6999	650	1933**
Grimes A #4	30-025- 07522	32	-18S	-38E	C	9//30	P	3884	3604	3700	270	15.5	20	220	200	CIRC**
Gulf								PBTD				9.625	12.25	2742	600	318**
												6.625	7.875	3931	400	CIRC**
Grimes NCT-A #17	30-025- 22792	32	-18S	-38E	C	11//68	P	6051	5780	5996	NONE	13.375	17.5	366	370	CIRC
Gulf/Chevron								PBTD				9.625	12.25	3399	1450	CIRC**
												7	8.75	6149	545	2510
Grimes NCT-A #18	30-025- 22915	32	-18S	-38E	F	2//69	P	6000	5772	5928	NONE	13.375	17.5	351	335	CIRC

** Denotes calculated TOC with 50% efficiency

OFFSET WELLS WITHIN ONE HALF MILE OF PROPOSED INJECTORS

Well Name	API No.	Sec.	T	R	Un	Drill	Well	TD or	Top	Bot.	Sqz.	Csg.	Hole	Depth	No. of	TOC
Operator					Ltr	Date	Type	PBTD	Perf	Perf	Perfs	Size	Size		Sxs.	
Gulf/Chevron								PBTD				8.625	11	3799	500	1802**
												5.5	7.875	6019	505	2470
Bowers A Fed. # 1	30-025- 07471	30	-18S	-38E	I	1/1/30	PA	6000	5878	5922	3669-3726	12.25	17	205	180	CIRC**
Exxon								PBTD			5812-5849	9.625	11.5	2750	630	CIRC**
												7	8.75	3962	528	CIRC**
												4.5	6.25	6000	275	2200-TS
Bowers A Fed. #CT21	30-025- 21968	30	-18S	-38E	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Humble																
Bowers A Fed. #CT22	30-025- 21961	29	-18S	-38E	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Humble																
Bowers A Fed. #CT23	30-025- 21962	29	-18S	-38E	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Humble																
Bowers Fed. #2	30-025- 07472	30	-18S	-38E												
Humble																
Now NHU 30331																
St #5	30-025- 07483	30	-18S	-38E	K	2/1/48	P	3246	3194	3244	NA	8.625	11	300	125	CIRC**
Marathon												5.5	7	3160	1350	CIRC**
State A #6	30-025- 07540	32	-18S	-38E	O	6/1/48	TA	3240	3156	3198	NONE	8.625	11	301	125	CIRC**
Marathon/Saga												5.5	7	3116	750	CIRC**
State #7	30-025- 07541	32	-18S	-38E	P	6/1/48	SI	3213	3116	3213	NONE	8.625	11	301	125	CIRC**

** Denotes calculated TOC with 50% efficiency

OFFSET WELLS WITHIN ONE HALF MILE OF PROPOSED INJECTORS

Well Name	API No.	Sec.	T	R	Un	Drill	Well	TD or	Top	Bot.	Sqz.	Csg.	Hole	Depth	No. of	TOC
Operator					Ltr	Date	Type	PBTD	Perf	Perf	Perfs	Size	Size		Sxs.	
Marathon												5.5	7	3116	1000	CIRC
State #8	30-025-07542	32	-18S	-38E	I	7/1/48	P	3192	3124	3192	NONE	8.625	11	300	125	CIRC
Marathon												5.5	7	3124	1000	CIRC
St #8	30-025-07486	30	-18S	-38E	L	4/1/48	P	3180	3223	3271	NA	8.625	11	295	125	CIRC
Marathon									OH			5.5	7	3173	900	CIRC
Hobbs State #1	30-025-23585	29	-18S	-38E	F	10/1/70	P	7032	6680	6992	NONE	12.75	17.5	356	400	CIRC
Marcum Drilling								PBTD				8.625	11	3795	300	2600
												5.5	7.875	7050	150	3839-CBL
Conoco-State #2	30-025-23856	33	-18S	-38E	K	11/1/71	P	7075	5830	6533	NONE	13.375	17	402	410	CIRC
Penroc												9.625	12.25	3797	350	998
												7	8.75	7075	600	3503
Hobbs State #2	30-025-23620	29	-18S	-38E	G	11/1/71	P	6397	6705	7031	6318-6350	9.625	12.75	358	200	CIRC
Marcum Drilling								PBTD				7	8.75	3850	250	2481**
												4.5	6.125	7075	425	1672**
Hobbs SWD F #WD29	30-025-12802	29	-18S	-38E	F	2/1/60	I	5050	4469	5050	NA	9.625	12.25	400	300	CIRC**
Rice										OH		7	8.75	4700	700	CIRC**
State Land S32 #9	30-025-23309	32	-18S	-38E	J	11/1/70	P	6710	5954	6560	NONE	13.375	17.5	364	160	90**
Saga								CIBP				9.625	12.25	3799	1140	CIRC**
												7	8.75	573-6998	490	CIRC**
Seed St 30 #1	30-025-22994	30	-18S	-38E	K	2/1/69	P	45	10	45	NONE	7	8.5	10	2	CIRC**
C.E. Seed																

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OFFSET WELLS WITHIN ONE HALF MILE OF PROPOSED INJECTORS

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
Seed St 30 #2	30-025-22995	30 -18S	-38E	K	2/69	P	45	10	45	NONE	7	8.5	10	2	CIRC**	
C.E. Seed																
Seed St 30 #3	30-025-22996	30 -18S	-38E	K	2/69	P	45	10	45	NONE	7	8.5	10	2	CIRC**	
C.E. Seed																
Seed St 30 #4	30-025-22997	30 -18S	-38E	K	2/69	P	45	10	45	NONE	7	8.5	10	2	CIRC**	
C.E. Seed																
Seed St 30 #5	30-025-22998	30 -18S	-38E	K	2/69	P	45	10	45	NONE	7	8.5	10	2	CIRC**	
C.E. Seed																
Seed St 30 #6	30-025-22319	30 -18S	-38E	K	2/69	P	45	10	45	NONE	7	8.5	10	2	CIRC**	
C.E. Seed																
Seed St 30 #7	30-025-22320	30 -18S	-38E	K	2/69	P	45	10	45	NONE	7	8.5	10	2	CIRC**	
C.E. Seed																
Seed St 30 #8	30-025-22321	30 -18S	-38E	K	2/69	P	45	10	45	NONE	7	8.5	10	2	CIRC**	
C.E. Seed																
Seed St 30 #9	30-025-22322	30 -18S	-38E	K	2/69	P	45	10	45	NONE	7	8.5	10	2	CIRC**	
C.E. Seed																
Hobbs State #3	30-025-23621	29 -18S	-38E	B	12/70	SWD	6060	5144	6029	NONE	9.625	12.25	350	200	CIRC	

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OFFSET WELLS WITHIN ONE HALF MILE OF PROPOSED INJECTORS

Well Name	API No.	Sec.	T	R	Un	Drill	Well	TD or	Top	Bot.	Sqz.	Csg.	Hole	Depth	No. of	TOC
Operator					Ltr	Date	Type	PBTD	Perf	Perf	Perfs	Size	Size		Sxs.	
HRC, Inc.												7	8.75	3850	200	2300
												4.5	6.25	6083	200	3112
St I #6	30-025- 23252	29	-18S	-38E	P	8/1/69	P	6986	6652	6929	NA	9.625	12.25	3800	600	1905**
Std of Tx												7	8.75	3549	700	CIRC**
												5.5	7.875	7013	NA	NA
HD McKinley #5	30-025- 07465	30	-18S	-38E	F	3/1/47	PA	3230	3197	3206	NONE	7.625	9.875	432	200	CIRC**
Amerada												5.5	6.75	3130	600	CIRC**
HD McKinley #6	30-025- 07466	30	-18S	-38E	C	3/1/47	PA	3229	3145	3229	NONE	7.625	9.875	416	200	CIRC
Amerada												5.5	6.75	3145	625	CIRC
HD McKinley #9	30-025- 22172	30	-18S	-38E	F	6/1/67	PA	37	10	37	NONE	5.5	6.75	10	21	CIRC**
Amerada																
State A #3	30-025- 07517	32	-18S	-38E	B	1/1/47	PA	3164	3149	3150	NA	10.75	13.75	221	200	CIRC**
Amerada												7.625	9.875	1570	300	CIRC**
												5.5	6.75	3164	600	CIRC**
Bowers Fed. A #1	30-025- 22124	30	-18S	-38E	J	6/1/67	PA	42	10	38	NONE	6.625	6.75	10	3	CIRC**
ARC Ind.																
Bowers A Fed. #2	30-025- 22125	30	-18S	-38E	J	5/1/67	PA	38	32	38	NONE	6.625	6.75	10	3	CIRC**
ARC																

** Denotes calculated TOC with 50% efficiency

OFFSET WELLS WITHIN ONE HALF MILE OF PROPOSED INJECTORS

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
Bowers Fed. A #3 ARC Ind.	30-025-22126	30	-18S	-38E	J	6/67	PA	38	10	38	NONE	7	7.875	10	3	CIRC**
Bowers Fed. A #4 ARC Ind.	30-025-22127	30	-18S	-38E	J	7/67	PA	38	10	38	NONE	6.625	6.75	10	3	CIRC
Bowers Fed. A #5 ARC Ind.	30-025-22189	30	-18S	-38E	J	7/67	PA	38	10	38	NONE	6.625	6.75	10	3	CIRC
Bowers Fed. A #6 ARC Ind.	30-025-22276	30	-18S	-38E	J	10/67	PA	45	10	45	NONE	5.5	6.75	10	3	CIRC**
Bowers Fed. A #10 ARC Ind.	30-025-22147	30	-18S	-38E	J	6/67	PA	38	10	38	NONE	7	7.875	10	3	CIRC**
Bowers Fed. A #11 ARC Ind.	30-025-22148	30	-18S	-38E	J	6/67	PA	38	10	38	NONE	6.625	6.75	10	3	CIRC**
Bowers Fed. A #12 ARC Ind.	30-025-22190	30	-18S	-38E	J	10/67	PA	45	10	45	NONE	6.625	6.75	10	3	CIRC**
F.A Bowers #13 ARC Ind.	30-025-22277	30	-18S	-38E	J	10/67	PA	45	10	45	NONE	5.5	6.75	10	3	CIRC**
Grimes #5 Conoco	30-025-07414	28	-18S	-38E	O	12/47	PA	3218	3199	3209	3199-3209	10.75	13.75	422	300	CIRC**
Grimes #6	30-025-107415	28	-18S	-38E	J	12/47	PA	3255	3236	3249	NONE	10.75	12.25	424	350	CIRC**

** Denotes calculated TOC with 50% efficiency

OFFSET WELLS WITHIN ONE HALF MILE OF PROPOSED INJECTORS

Well Name	API No.	Sec.	T	R	Un	Drill Date	Well Type	TD or PBD	Top Perf	Bot. Perf	Sqz. Perfs	Csg. Size	Hole Size	Depth	No. of Sxs.	TOC
Operator					Ltr											
Conoco												7	8.75	3255	550	CIRC**
St A #4	30-025-07439	29 -18S	-38E	J	2/47	PA	3215	3167	3194		NA	10.75	15	200	250	CIRC**
Conoco												5.5	7.875	3200	600	CIRC**
State A #5	30-025-07440	29 -18S	-38E	K	3/47	PA	3200	3168	3188		NONE	10.75	15	280	200	CIRC**
Conoco												7.625	9.875	1573	425	CIRC**
												5.5	7.875	3197	450	CIRC**
State A #6	30-025-07441	29 -18S	-38E	N	7/47	PA	3172	3158	3166		NONE	12.75	15	260	200	CIRC
Conoco												8.625	10.75	1562	475	CIRC**
												7	8.25	2721	350	CIRC**
												5	6.25	3172	500	CIRC**
State A-33 #8	30-025-07549	33 -18S	-38E	L	9/48	PA	3200	3148	3197		3148-3197	13.375	17.5	362	300	CIRC**
Conoco												5.5	7.875	3199	1200	CIRC**
State A-33 #9	30-025-07550	33 -18S	-38E	M	10/48	PA	3235	3100	3235		NONE	10.75	13.375	371	300	CIRC**
Conoco												5.5	7.875	3210	1000	CIRC**
Grimes A #11	30-025-07529	32 -18S	-38E	F	12/47	PA	3169	3140	3169		NA	9.625	12.25	294	200	CIRC**
Chevron								OH				7	8.75	3130	600	CIRC**
Bowers #2	30-025-08045	30 -18S	-38E	J	5/30	PA	106	NA	NA		NONE	12.5	16	106	25	CIRC**
Humble																
B.A. Bowers #6	30-025-07475	30 -18S	-38E	I	11/30	PA	3190	NA	NA		NA	12.5	18	217	200	CIRC
Exxon												9.625	12	2750	650	CIRC**
												7	8.75	3147	120	3139**
Bowers A #12	30-025-07450	29 -18S	-38E	L	4/47	PA	3088	NA	NA		NA	8.625	11	236	100	CIRC**
Exxon							PBTD					5.5	7.625	3144	675	880-TS

** Denotes calculated TOC with 50% efficiency

OFFSET WELLS WITHIN ONE HALF MILE OF PROPOSED INJECTORS

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
Bowers A #14 Exxon	30-025- 07451	29	-18S -38E	O	8/47	PA	3207	3162	3207		NONE	8.625 5.5	11 7.625	496 3120	400 1350	CIRC** CIRC**
Bowers A-B #1 Exxon	30-025- 07453	29	-18S -38E	D	9/48	PA	3238	3179 OH	3238		NA	8.625 5.5	11 7.625	260 3179	150 1050	CIRC** CIRC**
Bowers A Fed. #9 Exxon	30-025- 07446	29	-18S -38E	E	8/30	PA	4259	NA	NA	NA	NA	9.625 7 5	12 8.75 6.25	2750 3976 4259	650 300 NA	CIRC** 2011** NA
Bowers A Fed. #13 Exxon	30-025- 07476	30	-18S -38E	J	7/47	PA	3189	3148 OH	3189		NA	8.625 5.5	11 7.625	225 3150	200 1350	CIRC** CIRC**
Bowers A Fed. #17 Exxon	30-025- 21900	30	-18S -38E	J	10/66	PA	50	10	50		NONE	7	8	12	6	CIRC**
Bowers A Fed. #31 Exxon	30-025- 23176	29	-18S -38E	E	6/69	PA	7050	6075	6991		NONE	8.625 5.5 2	11 7.875 7.875	3836 7038 7005	500 650 NA	1858** 3125** NA
Bowers A Fed. #33 Exxon	30-025- 23222	29	-18S -38E	D	7/69	PA	3970 CIBP	4144	5953		4256-66 5939	13.375 9.625 7	17 12.25 8.75	416 3836 5988	400 350 550	CIRC** 2555-TS 2900-TS
Bowers A Fed. #34 Exxon	30-025- 23260	30	-18S -38E	J	8/69	PA	7010	5822	6979		5848-98 6932-75	9.625 3.5 B 3.5 D	12.25 7.875 7.875	3850 6088 6098	550 895 895	2296** 2600** 2615**
Bowers A Fed. #CT24 Humble	30-025- 21963	29	-18S -38E	E	1/67	PA	35	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bowers A Fed. #CT25	30-025- 21964	29	-18S -38E	E	1/67	PA	35	NA	NA	NA	NA	NA	NA	NA	NA	NA

** Denotes calculated TOC with 50% efficiency

OFFSET WELLS WITHIN ONE HALF MILE OF PROPOSED INJECTORS

Well Name	API No.	Sec.	T	R	Un	Drill Date	Well Type	TD or PBDT	Top Perf	Bot. Perf	Sqz. Perfs	Csg. Size	Hole Size	Depth	No. of Sxs.	TOC
Operator					Ltr											
Exxon																
Bowers A Fed. #CT26	30-025- 21969	30	-18S	-38E	J	1/1/67	PA	35	NA	NA	NA	NA	NA	NA	NA	NA
Exxon																
Bowers A Fed. #CT27	30-025- 21970	30	-18S	-38E	H	1/1/67	PA	35	NA	NA	NA	NA	NA	NA	NA	NA
Exxon																
WD Grimes #2	30-025- 07455	29	-18S	-38E	A	2/1/48	PA	4045	NA	NA	NA	8.625	11	242	150	CIRC**
Humble												5.5	7.375	3205	450	CIRC**
G.O. McKinley #3	30-025- 07461	30	-18S	-38E	H	7/1/30	PA	3199	NA	NA	NA	9.625	12.25	2755	600	337**
Marathon/Getty												7	8.25	3166	100	2995**
G.O. McKinley #6	30-025- 07488	30	-18S	-38E	G	6/1/47	PA	3200	1453	NA	NA	8.625	11	1474	400	CIRC**
Marathon/Getty												5.5	5.875	3178	200	CIRC**
G.O. McKinley #7	30-025- 07489	30	-18S	-38E	B	7/1/47	PA	3224	NA	NA	NA	8.625	11	1504	400	CIRC**
Marathon/Getty												5.5	6.5	3192	200	CIRC**
Hobbs State #5	30-025- 23662	29	-18S	-38E	F	1/1/71	PA	5959	5813	5879	NA	9.625	12.25	364	200	CIRC
Ne-O-Tex												7	8.75	3826	200	2250
												4.5	6.25	5986	120	3800 (C)
State-Northrup #1	30-025- 07535	32	-18S	-38E	J	6/1/30	PA	3227	3140	3203	NONE	12.5	16	1482	175	1046**
Ohio Oil								PBDT				10.75	12.25	2776	200	2050**
												7	8.75	3850	275	CIRC
												5	7	3244	500	CIRC
WD Grimes #6	30-025- 07428	28	-18S	-38E	F	11/1/47	PA	3325	NONE	NONE	NONE	9.625	13	441	300	CIRC**
Repollo/Sinclair												7	9	3185	800	CIRC**

** Denotes calculated TOC with 50% efficiency

OFFSET WELLS WITHIN ONE HALF MILE OF PROPOSED INJECTORS

Well Name	API No.	Sec.	T	R	Un	Drill Date	Well Type	TD or PBD	Top Perf	Bot. Perf	Sqz. Perfs	Csg. Size	Hole Size	Depth	No. of Sxs.	TOC
Operator					Ltr											
WD Grimes #5	30-025- 07424	28 -18S	-38E	L		7/1/47	PA	3150 CMT	3191	3197	NONE	8.625	11	409	195	CIRC**
Shell												4.5	7.875	1958	600	CIRC**
WD Grimes #6	30-025- 12500	28 -18S	-38E	M		7/1/47	PA	3090	3155	3161	NONE	8.625	11	411	200	CIRC**
Shell								CMT				5.5	7.875	2778	1400	CIRC**
Grimes #8	30-025- 07423	28 -18S	-38E	L		9/1/47	PA	3120	3215	3221	NONE	8.625	11	402	200	CIRC**
Shell								CMT				4.5	7.875	2108	850	CIRC**
McKinley A #9	30-025- 12492	19 -18S	-38E	N		8/1/47	PA	3247	3205	3247	NA	8.625	11	407	200	CIRC**
Shell												4.5	7.875	3168	850	CIRC**
WD Grimes #5	30-025- 07426	28 -18S	-38E	E		10/1/47	PA	3222	3212	3222	NONE	9.625	13	441	300	CIRC**
Sinclair												7	9	3185	600	CIRC**
St #1	30-025- 07442	29 -18S	-38E	P		8/1/30	PA	4191	3150	4191	NA	13.375	17.5	217	200	CIRC**
Std of Tx										OH		9	12.25	2735	500	1473**
												6.625	7.875	3907	174	2374**
St #2	30-025- 07443	29 -18S	-38E	O		9/1/30	PA	4171	3155	4156	NA	13	17.5	225	150	CIRC**
Std of Tx												9.625	12.25	2810	725	CIRC**
												7	8.75	3951	300	1973**
WD Grimes #1	30-025- 07456	29 -18S	-38E	I		8/1/30	PA	4160	3168	3189	3259-61	12.5	17.5	236	200	CIRC**
Tidewater											3049-50	9.625	12.25	2712	600	273**
												6.625	8.75	3826	300	2404**
Grimes #2	30-025- 07457	29 -18S	-38E	H		10/1/30	PA	4176	3148	3255	3086-3088	15.5	18	230	200	CIRC**
Tidewater											3270-3272	9.625	12.25	2718	600	282**
												7	8.75	3880	300	1867**
												5.5	7.875	3350	100	3088**
Grimes #5	30-025- 07460	29 -18S	-38E	H		12/1/30	PA	4196	NA	NA	NA	12.5	16	214	250	CIRC

** Denotes calculated TOC with 50% efficiency

OFFSET WELLS WITHIN ONE HALF MILE OF PROPOSED INJECTORS

Well Name	API No.	Sec.	T	R	Un	Drill	Well	TD or	Top	Bot.	Sqz.	Csg.	Hole	No. of	
Operator					Ltr	Date	Type	PBTD	Perf	Perf	Perfs	Size	Size	Depth	Sxs
Tidewater												9.625	12.25	2715	600
												7	8.75	3911	400
															277**
															595**

** Denotes calculated TOC with 50% efficiency

North Hobbs Unit 27-111
Altura Energy
Unit D, 1200 FNL & 470 FWL
Sec 27, T-18S, R-38E

WELL PLUGGED:
12/31/97

Size: 8.625"
Depth: 347'
Hole size: 12.25"
Cmt: 275 sxs
TOC: CIRC- Calc.
With 50% effic.

Circ. Hole with 150 sxs from surf to 375'

Perfed at 375, circ to surf.

Perfed at 1807, could not pump into

Perfed at 3002, could not pump into
Spotted 25 sxs 2832-3079'

Spotted 25 sxs from 3823-4070'

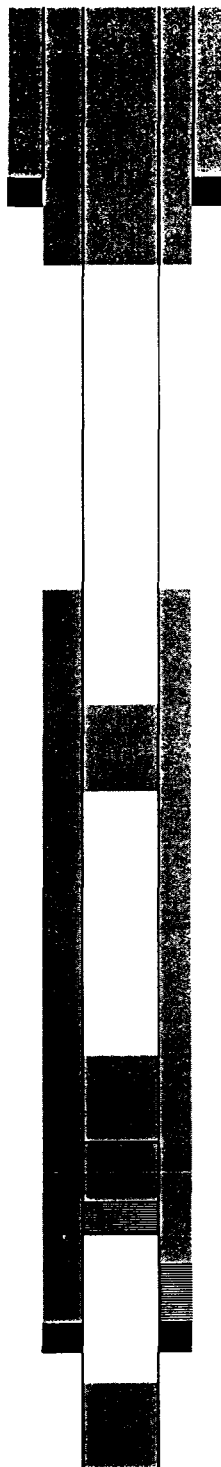
PBTD: 4077'

CIBP @ 4100' + cmt cap.

Perfs, 4161-4222

Size: 5.5"
Depth: 4222'
Hole size: 7.875"
Cmt: 450 sxs
TOC: 2676'-CBL

TD: 4360



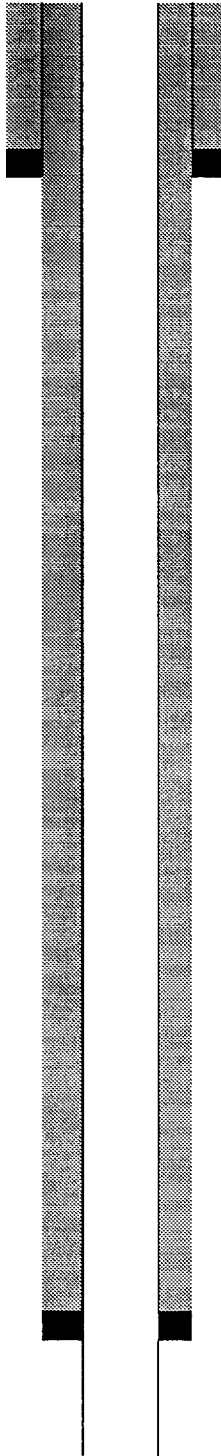
W. D. Grimes #5
Conoco
Unit O, 1980 FEL & 660 FSL
Sec 28, T-18S, R-38E

WELL PLUGGED:
1/20/71

Size: 10.75"
Depth: 422'
Hole size: 13.75"
Cmt: 300 sxs
TOC: Circ.- Calc.
50% efficiency

Size: 5.5"
Depth: 3204'
Hole size: 7.375"
Cmt: 650 sxs
TOC: Circ.- Calc.
50% efficiency

TD: 3218'



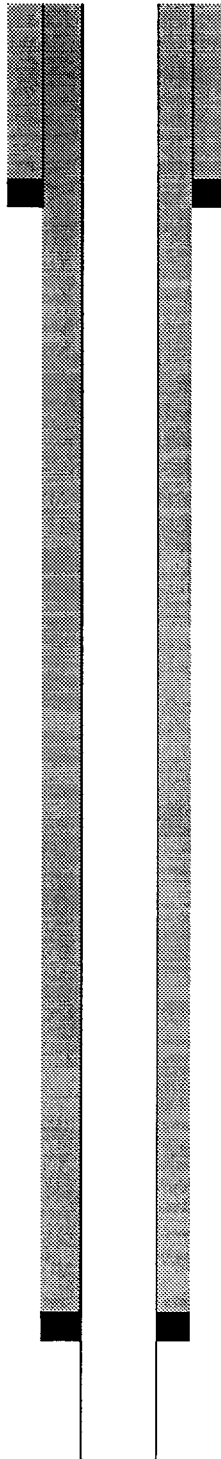
W. D. Grimes #6
Conoco
Unit J, 1980 FEL & 1980 FSL
Sec 28, T-18S, R-38E

WELL PLUGGED:
1/20/71

Size: 10.75"
Depth: 424'
Hole size: 12.25"
Cmt: 350 sxs
TOC: Circ.- Calc.
50% efficiency

Size: 7"
Depth: 3255'
Hole size: 8.75"
Cmt: 550 sxs
TOC: Circ.- Calc.
50% efficiency

TD: 3255'



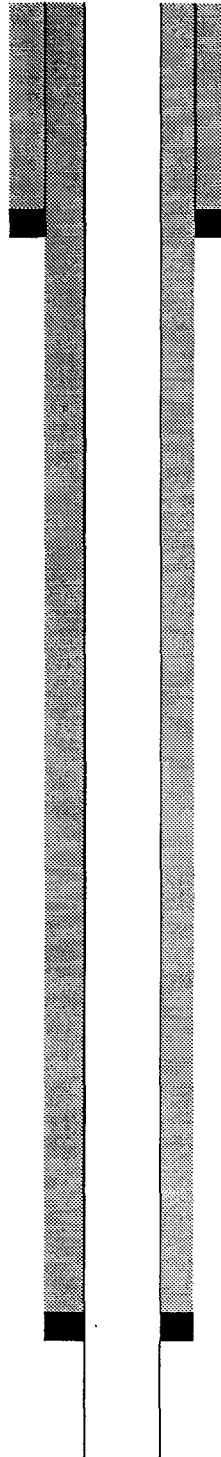
W. D. Grimes #6
Repollo/Sinclair
Unit F, NW/4
Sec 28, T-18S, R-38E

WELL PLUGGED:
11/27/47

Size: 9.625"
Depth: 441'
Hole size: 13"
Cmt: 300 sxs
TOC: Circ.- Calc.
50% efficiency

Size: 7"
Depth: 3185'
Hole size: 9"
Cmt: 800 sxs
TOC: Circ.- Calc.
50% efficiency

TD: 3325'



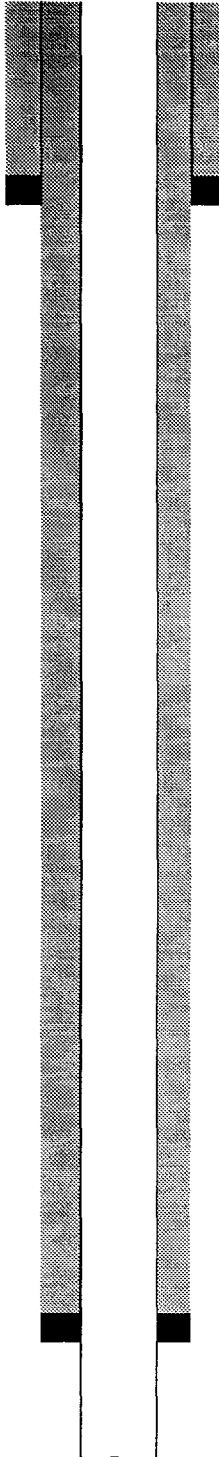
Grimes #8
Shell Oil Co.
Unit K, NW/4 of SW/4
Sec 28, T-18S, R-38E

WELL PLUGGED:
10/3/53

Size: 8.625"
Depth: 402'
Hole size: 11"
Cmt: 200 sxs
TOC: Circ.- Calc.
50% efficiency

Size: 4.5"
Depth: 2108'
Hole size: 7.875"
Cmt: 850 sxs
TOC: Circ.- Calc.
50% efficiency

PBTD: 3120' - Cmt



LIST OF OFFSET OPERATORS & SURFACE OWNERS

North Hobbs (Grayburg/San Andres) Unit
Well No. 332
Letter G, Section 28, T-18-S, R-38-E
Lea County, New Mexico

Offset Operators

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

Surface Owners

Belvue Baptist Church
1701 N. Coleman
Hobbs, NM 88240

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:

Belvue Baptist Church
1701 N. Coleman
Hobbs, NM 88240

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

3. Service Type

☐ Certified Mail

☐ Express Mail

☐ Registered

☒ Return Receipt for Merchandise

☐ Insured Mail

☐ C.O.D.

4. Restricted Delivery? *(Extra Fee)*

☐ Yes

2. Article Number *(Copy from service label)*

7000 0520 0017 5308 9081

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

December 31 1999

and ending with the issue dated

December 31 1999

Kathi Bearden

Publisher

Sworn and subscribed to before

me this 3rd day of

January 2000

Godi Henson
Notary Public.

My Commission expires
October 18, 2000
(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

December 31, 1999

Notice is hereby given of the application of Altura Energy LTD, 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. 231

Loc.: 2310' FSL & 2310' FWL, Unit Letter K, Sec. 19, T-18-S, R-38-E, Lea Co., NM

Well No. 422

Loc.: 2310' FNL & 330' FWL, Unit Letter H, Sec. 24, T-18-S, R-37-E, Lea Co., NM

Well No. 431

Loc.: 2310' FSL & 330' FEL, Unit Letter I, Sec. 25, T-18-S, R-37-E, Lea Co., NM

Well No. 131

Loc.: 2310' FSL & 330' FWL, Unit Letter L, Sec. 28, T-18-S, R-38-E, Lea Co., NM

Well No. 332

Loc.: 2470' FNL & 1800' FEL, Unit Letter G, Sec. 28, T-18-S, R-38-E, Lea Co., NM

Well No. 231

Loc.: 2310' FSL & 1650' FWL, Unit Letter K, Sec. 29, T-18-S, R-38-E, Lea Co., NM

Well No. 321

Loc.: 2310' FNL & 1650' FEL, Unit Letter G, Sec. 29, T-18-S, R-38-E, Lea Co., NM

Well No. 223

Loc.: 1770' FNL & 2405' FWL, Unit Letter F, Sec. 30, T-18-S, R-38-E, Lea Co., NM

Well No. 411

Loc.: 330' FNL & 3300' FEL, Unit Letter A, Sec. 30, T-18-S, R-38-E, Lea Co., NM

Well No. 211

Loc.: 440' FNL & 2310' FWL, Unit Letter C, Sec. 31, T-18-S, R-38-E, Lea Co., NM

Well No. 144

Loc.: 765' FSL & 1175' FWL, Unit Letter M, Sec. 32, T-18-S, R-38-E, Lea Co., NM

Well No. 312

Loc.: 210' FNL & 1400' FEL, Unit Letter B, Sec. 32, T-18-S, R-38-E, Lea Co., NM

Well No. 431

Loc.: 2310' FSL & 330' FEL, Unit Letter I, Sec. 32, T-18-S, R-38-E, Lea Co., NM

Well No. 111

Loc.: 330' FNL & 330' FWL, Unit Letter D, Sec. 33, T-18-S, R-38-E, Lea Co., NM

Well No. 211

Loc.: 330' FNL & 2310' FWL, Unit Letter C, Sec. 33, 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, 2040 S. Pacheco, Santa Fe, NM 87505 within fifteen (15) days.
#17073

02101173000

02533892

altura

P. O. Box 4294

Houston, TX 77210-4294

PMX-207



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

9/18/00

GOVERNOR

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88241-1980
(505) 393-6161

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 Ltd. / Hobbs GB/SA Unit #332-6-28-185-38e
Operator Lease & Well No. Unit S-T-R 30-025-31655

and my recommendations are as follows:

OK

Yours very truly,

Chris Williams
Supervisor, District 1

/ed