OXY Occidental Permian Ltd.

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. 321
Letter G, Section 29, 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. 321 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. 321). 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)

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL
RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 SOUTH PACHECO
SANTA FE, NEW MEXICO 87505

FORM C-108
Revised 4-1-98

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. 321
Letter G, Section 29, 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	(H2S)		486.00	16.00	30.38
Carbon Dioxide	(CO2)	Not Analyzed			
Dissovled Oxygen	(O2)	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	(CO3=)		0.00	30.00	0.00
Bicarbonate	(HCO3-)		1,869.66	61.10	30.60
Sulfate	(SO4=)		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 CaCO3			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 Wells 29321, 29231, 32312
SAMPLED BY

DATE TAKEN 8/8/00
REMARKS T18S-R38E-Sec29; Qtr Sec 4,1,2

Barium as Ba	0	
Carbonate alkalinity PPM	68	
Bicarbonate alkalinity PPM	260	
pH at Lab	7.21	
Specific Gravity @ 60°F	1	
Magnesium as Mg	32	
Total Hardness as CaCO3	56	
Chlorides as Cl	325	
Sulfate as SO4	130	
Iron as Fe	0	
Potassium	0.1	
Hydrogen Sulfide	0	
Rw	12	@ 23° C
Total Dissolved Solids	841	
Calcium as Ca	24	
Nitrate	2.2	

Results reported as Parts per Million unless stated

Langelier Saturation Index -.54

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 Wells 33111 & 28131 + 29321 + 3232
SAMPLED BY

DATE TAKEN 5/9/00
REMARKS T18S-R38E-Sec 29, Qtr Sec. 4,2,1

Barium as Ba	0	
Carbonate alkalinity PPM	40	
Bicarbonate alkalinity PPM	216	
pH at Lab	7.63	
Specific Gravity @ 60°F	1	
Magnesium as Mg	174	
Total Hardness as CaCO3	300	
Chlorides as Cl	155	
Sulfate as SO4	115	
Iron as Fe	0.1	
Potassium	0.09	
Hydrogen Sulfide	0	
Rw	9.4	@ 25° C
Total Dissolved Solids	850	
Calcium as Ca	126	
Nitrate	7.5	

Results reported as Parts per Million unless stated

Langelier Saturation Index 0.05

Analysis by: Vickie Walker
Date: 6/6/00

DISTRICT I
P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II
P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III
1000 Rio Brazos Rd., Aztec, 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	Pool Code	Pool Name
30-025-07431	31920	HOBBS; GRAYBURG - SAN ANDRES

Property Code	Property Name	Well Number
19520	NORTH HOBBS G/SA UNIT	321

OGRID No.	Operator Name	Elevation
157984	Occidental Permian Limited Partnership	3648

Surface Location

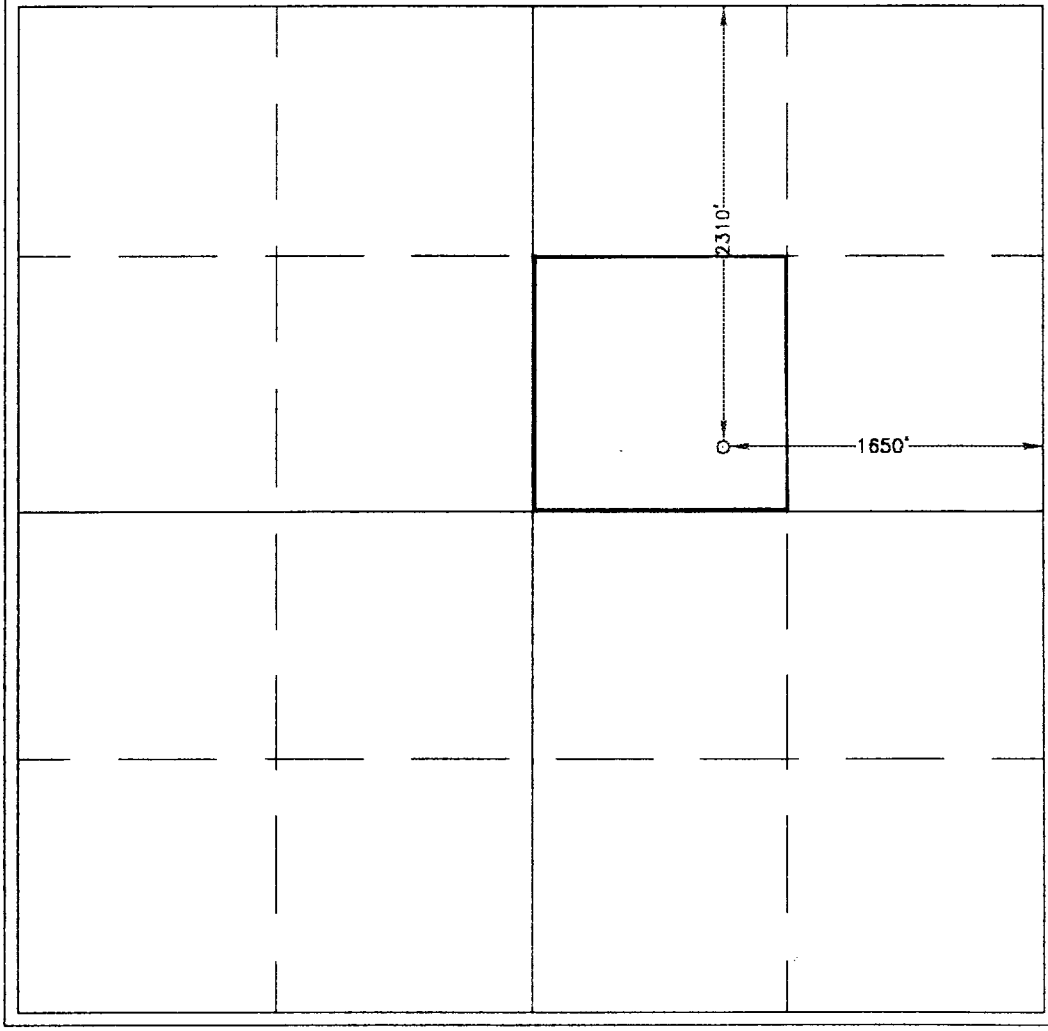
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	29	18 S	38 E		2310	NORTH	1650	EAST	LEA

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 hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.

Mark Stephens
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 supervison, and that the same is true and correct to the best of my belief.

JANUARY 6, 2000
Date Surveyed DC

Signature & Seal of Professional Surveyor

1/28/2000

00-13-0019

Certificate No. RONALD J. EIDSON 3239
GARY EIDSON 12641
MACON McDONALD 12185

DISTRICT I
P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II
P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III
1000 Rio Brazos Rd., Aztec, 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	Pool Code	Pool Name
30-025-07431	31920	HOBBS; GRAYBURG - SAN ANDRES

Property Code	Property Name	Well Number
19520	NORTH HOBBS G/SA UNIT	321

OGRID No.	Operator Name	Elevation
157984	Occidental Permian Limited Partnership	3648

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	29	18 S	38 E		2310	NORTH	1650	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.

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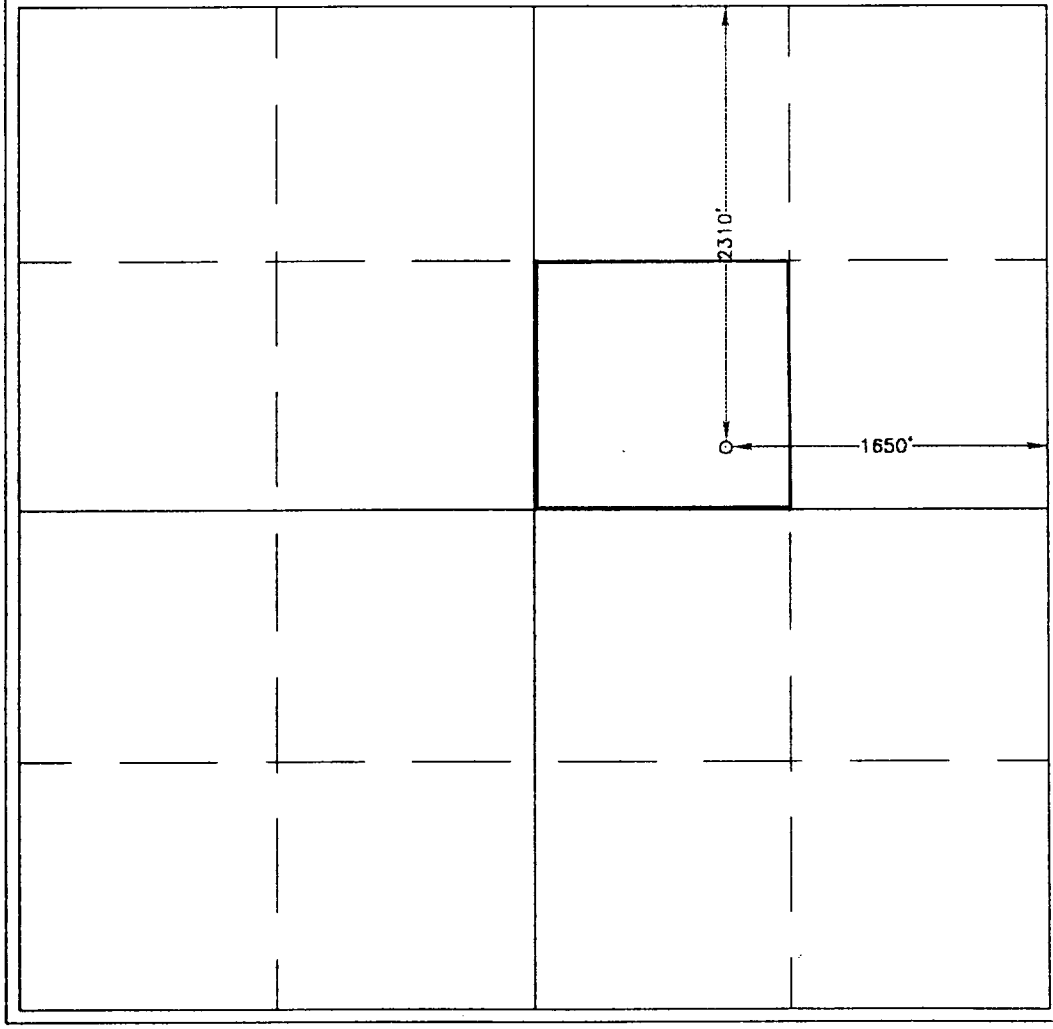

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Mark Stephens
Signature

Mark Stephens
Printed Name

Business Analyst (SG)
Title

September 12, 2000
Date

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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 supervison, and that the same is true and correct to the best of my belief.

JANUARY 6, 2000
Date Surveyed DC

Signature & Seal of Professional Surveyor

GARY L. JOHNSON NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR

Gary L. Johnson 1/28/2000

00-13-0019

Certificate No. RONALD J. EIDSON 3239
GARY L. JOHNSON 12641
MACON McDONALD 12185

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

4
SHELL OIL
MCKINLEY B
ES-3655
TD-4234

30 025 07384

WI-233
SHELL OIL
N HB U SC 20
GR-3648
TD-4510

30 025 27214

4
GULF OIL
WD GRIMES C
ES-3645
TD-4223

30 025 07394

241
SHELL OIL
N HB U SC 20
GR-3657
TD-4205
3/1/1983
30 025 12493

1
ATLANTIC RICHFIELD
GRIMES
ES-3653
TD-4242

30 025 07371

3
HUMBLE O&R
BOWERS B
ES-3646
TD-4225

30 025 07373

3
SWEET C H OIL
BOWERS-FED.
DF-3647
TD-4230
3/1/1954
30 025 07385

1
GULF OIL
GRIMES C
-
TD-4219

30 025 07390

2
RUNNELS HAROLD L
GULF-GRIMES
-
TD-420

30 025 22670

29

1
HUMBLE O&R
BOWERS A-B
ES-3656
TD-3238

30 025 07453

33
HUMBLE O&R
BOWERS-FED A
GR-3646
TD-6000

30 025 23222

4
AM. HESS CORP
STATE B
ES-3649
TD-4214

30 025 07433

CT25
HUMBLE O&R
BOWERS-FED A
-
TD-35

30 025 21964

WI-222
SHELL OIL
N HB U SC 29
GR-3644
TD-4510

30 025 26934

3
SONNYS OIL FLD SERV
HOBBS-STATE
DF-3652
TD-6083
9/7/1971
30 025 23621

311
SHELL OIL

GR-3649
TD-4191
1/6/1983
30 025 07432

1
HUMBLE O&R
GRIMES
ES-3644
TD-4223

30 025 07454

2
HUMBLE O&R
WD GRIMES
ES-3651
TD-4045

30 025 07455

111
SHELL OIL

ES-3646
TD-4210

30 025 07422

31
HUMBLE O&R
BOWERS-FED A
GR-3643
TD-7050
1/2/1972
30 025 23176

WD-29
RICE ENGINEERING
HOBBS SWD "F"
GR-3652
TD-
4/9/1960
30 025 12802

322
SHELL W. E&P
N HB U SC 29
GR-3646
TD-4384

30 025 28883

5
TIDAL OIL CO
GRIMES
ES-3650
TD-4200

30 025 07460

122
SHELL W. E&P

DF-3659
TD-4370

30 025 28964

ONE-HALF MILE RADIUS FROM WELL 29-321

6
AM. HESS CORP
STATE B
ES-3654
TD-3219

30 025 07435

1
NE-O-TEX
HOBBS-STATE
DF-3654
TD-7050

30 025 23585

5
AM. HESS CORP
STATE B
ES-3655
TD-3225

30 025 07434

2
PONTOTOC OIL
HOBBS STATE
DF-3654
TD-7075

30 025 23620

5
SINCLAIR O&G
WD GRIMES
ES-3653
TD-3231

30 025 07426

CT24
HUMBLE O&R
BOWERS-FED A
-
TD-35

30 025 21963

9
HUMBLE O&R
BOWERS-FED. A
ES-3654
TD-4220

30 025 07446

1
AM. HESS CORP
STATE B
ES-3653
TD-4214

30 025 07430

5
NE-O-TEX
HOBBS-STATE
DF-3653
TD-5986

30 025 23662

323
SHELL W E&P

GR-3648
TD-4370

30 025 28941

2
AM. HESS CORP
STATE B
ES-3652
TD-4207

30 025 07431

2
TIDAL OIL CO
WD GRIMES
ES-3652
TD-4176

30 025 07457

4
GETTY OIL
GRIMES WD
DF-3657
TD-4194

30 025 07459

1
ATLANTIC RICHFIELD
GRIMES WD
ES-3653
TD-4191

30 025 07420

10
HUMBLE O&R
BOWERS-FED. A
ES-3653
TD-4220

30 025 07447

3
CONT. OIL
STATE A
ES-3655
TD-4208

8
CONOCO INC
STATE 'A29'
GR-3645
TD-5960

30 025 23048

4
CONT. OIL
STATE A
ES-3655
TD-3215

30 025 07439

3
TIDEWTR OIL
GRIMES
ES-3653
TD-4190

30 025 07458

131
SHELL OIL

GR-3653
TD-4190

30 025 12497

WI-232
SHELL W. E&P

GR-3650
TD-4370

30 025 28882

29
EXXON CORP
BOWER "A" FED.
GR-3643
TD-6000

30 025 23331

30 025 07438

5
CONT. OIL
STATE A
ES-3651
TD-3200
4/5/1947
30 025 07440

6
GETTY OIL
GRIMES WD
GR-3647
TD-7050
2/1/1970
30 025 23400

5
SHELL OIL
WD GRIMES
ES-3658
TD-3200

30 025 07424

132
SHELL OIL

GR-3658
TD-7150

30 025 23277

CT23
HUMBLE O&R
BOWERS-FED A
-
TD-35

30 025 21962

132
SHELL OIL
N HB U SC 29
KB-3653
TD-4510
3/9/1981
30 025 26917

1
CONT. OIL
STATE A
-
TD-4178
1/1/1901
30 025 07436

1
TIDEWTR OIL
WD GRIMES
ES-3655
TD-4160

30 025 07456

3
SHELL OIL
GRIMES
ES-3651
TD-4200

30 025 07421

WI-342
SHELL W. E&P

DF-3659
TD-4375

30 025 28884

2
STAND OIL OF TX
STATE
ES-3655
TD-4171

30 025 07443

1
STAND OIL OF TX
STATE
ES-3647
TD-4191

30 025 07442

442
SHELL W. E&P

KB-3655
TD-4370

30 025 28885

12
HUMBLE O&R
BOWERS A
ES-3654
TD-3183

30 025 07450

14
HUMBLE O&R
BOWERS A
ES-3648
TD-3171

30 025 07451

28
EXXON CORP
BOWERS 'A' FED
GR-3637
TD-6000
7/1/1996
30 025 23022

7
CONT. OIL
STATE A29
GR-4186
TD-6050

30 025 22934

6
CONT. OIL
STATE A
ES-3648
TD-3172

30 025 07441

544
ALTURA ENERGY
NORTH HOBBS
GR-3646
TD-

30 025 34644

6
SHELL OIL
WD GRIMES
ES-3656
TD-3200

30 025 12500

142
SHELL W. E&P
NORTH HOBBS
GR-3648
TD-7102

30 025 23246

CT22
HUMBLE O&R
BOWERS-FED A
-
TD-32

30 025 21961

242
SHELL W. E&P
NORTH HOBBS GBSA
DF-3650
TD-4370

30 025 28413

2
CONT. OIL
STATE A
ES-3642
TD-4184

30 025 07437

4
STAND OIL OF TX
STATE
ES-3649
TD-4170

30 025 07445

5
CHEVRON USA
STATE "I"
GR-3644
TD-7025

30 025 23173

6
STAND OIL OF TX
STATE I
DF-3657
TD-7015

30 025 23252

441
SHELL OIL

ES-3652
TD-4175

30 025 07444

141
SHELL OIL

GR-3652
TD-4175
2/5/1983
30 025 12496

32

111
SHELL OIL

GR-3636
TD-3187

30 025 07528

16
GULF OIL
GRIMES WD NCT-A
GR-3636
TD-7050

30 025 22627

4
GULF OIL
GRIMES A
ES-3656
TD-4153

30 025 07522

212
SHELL W. E&P

KB-3649
TD-4350

30 025 30258

17
GULF OIL
GRIMES WD NCT-A
GR-3637
TD-6150

30 025 22792

313
SHELL W. E&P

KB-3652
TD-4350
5/1/1988
30 025 30263

4
AM. HESS CORP
STATE "A"
GR-3640
TD-6000

30 025 23076

3
AM. HESS CORP
STATE A
ES-3650
TD-3164
2/7/1947
30 025 07517

312
SHELL W. E&P

GR-3651
TD-4370

30 025 29017

5
AM. HESS CORP
STATE A
GR-3648
TD-8044
7/1/1969
30 025 23116

2
AM. HESS CORP
STATE A
ES-3658
TD-4160

30 025 07516

WI-212
SHELL W. E&P

GR-3644
TD-4370

30 025 29026

1
SHELL OIL
STATE B
ES-3656
TD-4175

30 025 12505

112
ALTURA ENERGY
NORTH HOBBS
GR-3648
TD-7000

30 025 23207

4
SHELL OIL
STATE B
ES-3656
TD-3192

30 025 12508

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

Altura Energy Ltd.

Area of Review Plat

NORTH HOBBS (GRAYBURG SAN ANDRES) UNIT

WELL NO. 29-321

T-18-S, R-38-E

Lea County, New Mexico

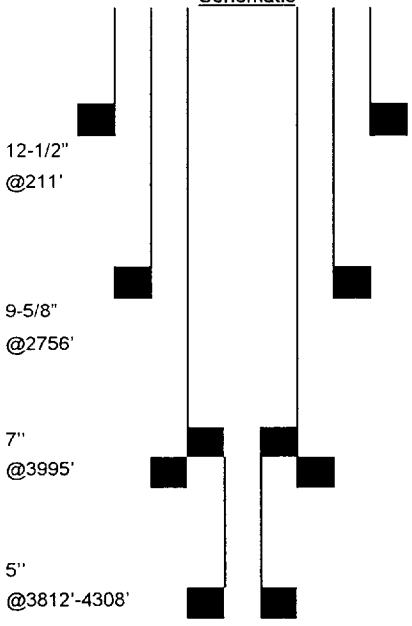
Scale: 1"= 600' 01-05-00 nm438a00.dgn - 12
Plat prepared by PJE Drafting, Inc.
For Horizon Survey, Inc.

INJECTION WELL DATA SHEET

Operator	Lease	County
Occidental Permian Limited Partnership	North Hobbs G/SA Unit	Lea

Well No.	Footage Location	Section	Township	Range	Unit Letter
29-321	2310' FNL & 1650' FEL	29	18-S	38-E	G

Schematic



Tubular Data

Surface Casing
Size 12-1/2" Cemented with 250 sxs.
TOC SURF Determined by CIRC.
Hole size

Intermediate Casing
Size 9-5/8" Cemented with 250 sxs.
TOC 921 Determined by NA
Hole size

Long string Casing
Size 7" Cemented with 300 sxs.
TOC 2930 Determined by CBL
Hole size

Liner
Size 5" Cemented with 100 sxs.
TOC 3894 Determined by CBL
Hole size

Total depth 4309'

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

1. Name of the injection formation: 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 will 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) Grayburg:3895-sqz'd,San Andres:4100-sqz'd,4137,4142
4149,4160,4171,4178,4183,4190,4195,4200,4202,4209,4216,4222,4234,4242,4252,4267,4271

5. Give the depth to and name of any overlying and/or underlying oil and gas zones (pools) in this area.

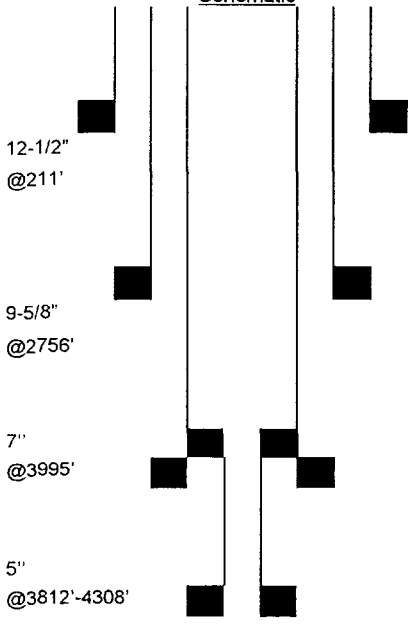
Grayburg – 3270, Glorieta - 5300

INJECTION WELL DATA SHEET

Operator	Lease	County
Occidental Permian Limited Partnership	North Hobbs G/SA Unit	Lea

Well No.	Footage Location	Section	Township	Range	Unit Letter
29-321	2310' FNL & 1650' FEL	29	18-S	38-E	G

Schematic



Tubular Data

Surface Casing
Size 12-1/2" Cemented with 250 sxs.
TOC SURF Determined by CIRC.
Hole size

Intermediate Casing
Size 9-5/8" Cemented with 250 sxs.
TOC 921 Determined by NA
Hole size

Long string Casing
Size 7" Cemented with 300 sxs.
TOC 2930 Determined by CBL
Hole size

Liner
Size 5" Cemented with 100 sxs.
TOC 3894 Determined by CBL
Hole size

Total depth 4309'

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

1. Name of the injection formation: 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 will 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) Grayburg:3895-sqz'd,San Andres:4100-sqz'd,4137,4142
4149,4160,4171,4178,4183,4190,4195,4200,4202,4209,4216,4222,4234,4242,4252,4267,4271

5. 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		No. of	
Operator						Ltr	Date	Type	PBTD	Perf	Perf	Perfs	Size	Size	Depth	Sxs.	TOC
19241	30-025-	07364	19	-18S	-38E	N	9//30	SI	4244	4144	4232	NONE	12.5	18	246	200	CIRC
Oxy									PBTD				9.625	12	2750	600	CIRC
													7	8.75	3975	225	3230
													5.5	7.875	3936-4246	100	3936
19242	30-025-	23481	19	-18S	-38E	N	5//70	P	4186	4276	4179	4020-4058	13.375	17.5	360	360	CIRC**
Oxy												4192-4196	9.625	12.25	3794	500	CIRC**
													5.5	8.75	3537-7103	950	CIRC**
19341	30-025-	12491	19	-18S	-38E	O	9//30	TA	4005	4140	4272	NONE	9.625	12.25	2750	600	330**
Oxy									CIBP				7	8.75	3975	225	3299 CBL
													5.5 Lnr	6.125	3937-4245	100	3937
27121	30-025-	12494	27	-18S	-38E	E	6//36	P	4244	4108	4250	1730	12.5	17.5	270	150	CIRC
Oxy									PBTD			2475	9.625	12.25	1705	575	CIRC
													7	8.75	4108	275	CIRC**
27131	30-025-	07410	27	-18S	-38E	L	6//35	P	4252	4034	4252	NONE	12.5	16.5	259	150	CIRC**
Oxy													9.625	12.25	1645	200	1202**
													7	8.75	4075	250	2818**
27221	30-025-	30910	27	-18S	-38E	E/L	12//91	I	4509	4430	4495	NONE	14	17.5	53	NA	NA
Oxy									PBTD				8.625	12.25	1658	850	CIRC
													5.5	8.875	4546	1035	CIRC
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
28111	30-025-	07422	28	-18S	-38E	D	7//34	I	4288	4214	4273	4041-4053	15.5	18	296	200	CIRC
Oxy												4073-4097	10	12.75	2704	150	2304
												4106-4120	7	8.75	3956	250	2244
												4147-4160	4.5	6.25	3913-4234	50	CIRC**
												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	Well	TD or	Top	Bot.	Sqz.	Csg.	Hole		No. of	
Operator						Ltr	Date	Type	PBTD	Perf	Perf	Perfs	Size	Size	Depth	Sxs.	TOC
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	Well	TD or	Top	Bot.	Sqz.	Csg.	Hole		No. of	
Operator						Ltr	Date	Type	PBTD	Perf	Perf	Perfs	Size	Size	Depth	Sxs.	TOC
Oxy									PBTD				7	8.75	4000	500	976**
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	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.	TOC
29131	30-025-	07447	29	-18S	-38E	L	10//30	P	4168	4050	4210	NONE	12.5	18	225	250	CIRC
Oxy									PBTD				9.625	12	2750	650	660**
													7	8.75	3976	300	1504-CBL
													5	6.125	3870-4220	50	3930-CBL
29132	30-025-	26917	29	-18S	-38E	L	12//80	I	4470	4025	4245	NONE	16	20	40	40	CIRC
Oxy									PBTD				8.625	12.25	1595	785	CIRC
													5.5	7.875	4510	900	CIRC**
29141	30-025-	07448	29	-18S	-38E	M	8//30	I	4238	3690	4228	3960-4108	12.5	18	203	200	CIRC
Oxy									PBTD			4033-4053	9.625	12	2736	650	1000**
													7	8.75	3960	300	1850**
													5.5	7.875	3941	250	3460-CBL
													4.5	6.25	3417-4238	50	3774-CBL
29211	30-025-	07433	29	-18S	-38E	C	11//30	TA	4003	4217	4270	4053-4150	12.5	18	243	250	CIRC
Oxy									CIBP			4180-4200	9.625	12	2796	400	CIRC
												4211-4215	7	8.75	4007	500	3014**
													5.5	6.25	3957-4238	50	3957
29221	30-025-	07430	29	-18S	-38E	F	9//30	P	4210	4118	4176	4154-4162	12.5	18	210	200	CIRC
Oxy									PBTD			4175-4185	9.625	12	2704	400	1236
												4195-4200	7	8.75	3979	500	2753
												4213-4267	4.5	6.125	3910-4213	50	3910
29222	30-025-	26934	29	-18S	-38E	F	4//81	I	4465	4175	4265	NONE	16	20	40	40	CIRC
Oxy													8.625	12.25	1605	950	CIRC
													5.5	7.875	4510	1050	CIRC
29231	30-025-	07438	29	-18S	-38E	K	10//30	P	4255	4106	4255	NONE	15.5	18	252	1000	CIRC**
Oxy													9.625	12.25	2729	600	CIRC
													7	8.75	3953	300	2718
													5	6.25	3906-4220	50	3906
29241	30-025-	07437	29	-18S	-38E	N	10//30	I	4255	4076	4239	NONE	12.5	18	217	160	CIRC
Oxy													9.625	12	2730	500	895
													7	8.75	3929	350	1850

** 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.	TOC
													5.5	7.875	3822-4299	60	3822
29242	30-025-	28413	29	-18S	-38E	N	3//84	P	4370	4005	4257	4019	16	20	30	NA	CIRC
Oxy												4037	8.625	12.25	1511	750	CIRC
												4040	5.5	7.875	4368	750	2330
29311	30-025-	07432	29	-18S	-38E	B	10//30	P	4269	4044	4269	4090-4110	12.5	16	241	250	113
Oxy												4171	9.625	11.75	2776	400	2750
													7	8.75	4008	500	2949
													5.5	6.25	3921-4234	350	3786
29321	30-025-	07431	29	-18S	-38E	G	9//30	P	4301	4137	4271	3895	12.5	16	211	250	CIRC
Oxy									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	30-025-	28883	29	-18S	-38E	G	11//84	I	4342	4160	4256	NONE	13.375	17.5	40	NA	CIRC
Oxy									PBTD				8.625	12.25	1520	620	CIRC
													5.5	7.875	4384	850	CIRC
29323	30-025-	28941	29	-18S	-38E	G	1//85	P	4180	3089	4272	NONE	13.375	17.5	40	NA	CIRC
Oxy									PBTD				8.625	12.25	1542	375	CIRC
													5.5	7.875	4370	450	575-CBL
29331	30-025-	07436	29	-18S	-38E	J	9//30	I	4261	4100	4258	4044-4065	9.625	11.75	2742	500	907
Oxy													7	8.75	3929	300	2115
													4.5	6.25	4270	750	3788 CBL
29341	30-025-	07445	29	-18S	-38E	O	10//30	P	4090	4050	4146	4010-4035	13.375	15	210	150	CIRC**
Oxy									PBTD				9.625	12	2750	700	CIRC**
													7	8.75	3934	300	3430-CBL
													5	6.25	4162	350	CIRC
29342	30-025-	28884	29	-18S	-38E	O	11//84	I	4375	4083	4250	NONE	13.375	17.5	40	NA	NA
Oxy													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	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.	TOC
Oxy												4057-4091	9.625	11.75	2750	650	365**
												4154-4158	7	8.75	4045	300	2231**
													5.5	6.25	3941-4223	30	3941**
29431	30-025-	07458	29	-18S	-38E	I	10//30	P	4227	4155	4225	4010	15.5	18	228	200	CIRC**
Oxy									PBTD			4075	9.625	12.25	2720	600	978**
													7	8.75	3900	400	2086**
													5.5	6.25	3209-4229	120	3209**
29441	30-025-	07444	29	-18S	-38E	P	10//30	P	4211	4058	4266	4020-4028	13.375	18	232	150	CIRC**
Oxy									PBTD				9.625	12	2743	1400	CIRC**
													7	8.75	3950	300	3240-CBL
													5	6.5	4172	22	4020
29442	30-025-	28885	29	-18S	-38E	P	2//85	I	4237	4065	4210	4031	13.375	17.5	40	NA	CIRC
Oxy									CIBP			4036	9.625	12.25	1536	575	CIRC
													7	7.875	4370	1100	CIRC
29544	30-025-	34644	29	-18S	-38E	P	7//99	P	4359	4124	4256	NONE	14	18	40	50	CIRC
Oxy									PBTD				8.625	12.25	1565	725	CIRC
													5.5	7.875	4400	775	CIRC
30112	30-025-	29063	30	-18S	-38E	D	3//85	TA	4000	4034	4264	NONE	13.375	17.5	40	NA	NA
Oxy									CIBP				9.625	12.25	1520	250	CIRC
													7	8.75	4369	675	CIRC
30113	30-025-	29064	30	-18S	-38E	D	1//85	P	4310	4042	4285	NONE	13.375	17.5	55	NA	CIRC
Oxy									CIBP				8.625		1495	620	CIRC
													5.5	7.875	4370	990	CIRC
30121	30-025-	07464	30	-18S	-38E	E	9//30	I	4115	4160	4271	4042-4096	12.5	16	212	200	CIRC**
Oxy									PBTD				9.625	11.75	2749	400	1281**
													7	8.75	3994	425	2738-CBL
													5	6.125	3841-4312	40	CIRC-CBL
30131	30-025-	07481	30	-18S	-38E	L	10//30	P	4256	4082	4270	4006-70	9.625	11.75	2751	550	733
Oxy									CIBP			4116-40	7	8.75	3900	350	1783

** 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.	TOC
												4182-4200	5	6.25	4207	50	3770 CBL
30211	30-025-	07463	30	-18S	-38E	C	8//30	P	4254	4149	4250	4078	9.625	12.25	2647	400	2940**
Oxy												4086	6.625	7.875	3972	250	3130 CBL
												4100	5 Lnr	6.5	3867-4310	100	CIRC**
30221	30-025-	07462	30	-18S	-38E	F	4//30	P	4279	4072	4208-79	4023-4025	9.625	11.75	2750	535	787
Oxy											OH	4081-4104	7	8.25	3852	250	1500 CBL
												4120-4128	4.5 Lnr	6.25	3799-4207	125	3799
30222	30-025-	26833	30	-18S	-38E	F	10//80	I	4290	4123	4302	3718	16	20	40	40	CIRC
Oxy									CIBP			4322-29	8.625	12.25	1570	950	CIRC
													5.5	7.875	4349	800	2608 CBL
30231	30-025-	07479	30	-18S	-38E	K	7//30	TA	4015	4119	4256	943-955	20	22	215	75	67
												4166-4190	9.625	12.25	2750	400	1589
													7	8.75	3930	550	604
													5	6.25	4200	60	3193-CBL
30232	30-025-	26935	30	-18S	-38E	K	12//80	I	4519	4138	4310	4170-78	16	18	40	40	CIRC
Oxy												4186-94	8.625	11	1600	875	CIRC
													5.5	7.875	4555	1155	2614 CBL
30233	30-025-	28942	30	-18S	-38E	K	2//85	P	4210	4148	4240	NONE	13.375	17.5	55	NA	NA
Oxy													8.625	11	1507	620	CIRC
													5.5	7.875	4383	1070	CIRC
													2.375	5	4060	NA	NA
30311	30-025-	07469	30	-18S	-38E	B	8//30	TA	3950	3998	4121	2601	13.5	16	245	200	CIRC
									RBP				9.625	11.75	2753	600	551
													7	8.75	3998	250	3154
30312	30-025-	29197	30	-18S	-38E	B	5//85	P	4380	4215	4333	NONE	13.375	17.5	40	NA	NA
Oxy													9.625	12.25	1500	650	CIRC
													7	8.75	4431	700	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	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.	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//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//30	P	4238	4014	4225	4068-4072	12.5	15	242	225	CIRC
Oxy												4074-4092	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//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//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//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//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//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//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	Well	TD or	Top	Bot.	Sqz.	Csg.	Hole		No. of	
Operator						Ltr	Date	Type	PBTD	Perf	Perf	Perfs	Size	Size	Depth	Sxs.	TOC
30432	30-025-	28957	30	-18S	-38E	I	12//84	I	4325	4110	4266	NONE	13.375	17.5	55	REDIMIX	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	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.	TOC
													5.5	7.875	3911-4217	100	3973-CBL
32323	30-025-	26973	32	-18S	-38E	G	12//80	I	4292	4062	4276	4293-4332	16	20	40	40	CIRC
Oxy									PBTD				8.625	12.25	1600	1000	CIRC
													5.5	7.875	4400	920	3624-CBL
32331	30-025-	07538	32	-18S	-38E	J	9//30	I	4220	3940	4200	1414	15.5	18	300	250	CIRC
Oxy									PBTD			2670	9.625	11.75	2750	300	915**
												3964-3997	7	8.75	3940	700	CIRC
												4050-4261	5	6.25	4247	750	2430-CBL
32332	30-025-	29173	32	-18S	-38E	J	4//85	P	4310	4055	4208	4019-4021	13.375	17.5	40	NA	NA
Oxy									PBTD				9.625	12.25	1534	680	CIRC
													7	8.75	4356	875	CIRC
32342	30-025-	28266	32	-18S	-38E	O/A	10//83	I	4380	4091	4283	NONE	16	20	30	40	CIRC
Oxy													8.625	12.25	1522	700	CIRC
													5.5	7.875	4380	650	CIRC**
32343	30-025-	29906	32	-18S	-38E	O	6//87	P	4220	4141	4208	4000-4002	14	18	40	NA	NA
Oxy									PBTD			4224-4035	9.625	12.25	1498	1400	CIRC
													7	8.75	4370	1350	CIRC
32411	30-025-	07516	32	-18S	-38E	A	9//30	P	4272	3939	4160	NONE	12.5	16	224	200	CIRC**
Oxy													9.625	11.75	2740	400	1272**
													7	8.75	3939	500	2690-CBL
32421	30-025-	07517	32	-18S	-38E	H	8//30	P	4210	4092	4202	4046-4056	12.5	16	245	200	CIRC**
Oxy									PBTD			4158-4192	9.625	12	2755	600	CIRC**
												4203-4218	7	8.75	3950	225	2385-CBL
													5.5	7.875	3916-4219	125	CIRC**
32422	30-025-	29074	32	-18S	-38E	H	3//85	P	4257	3874	4222	4047-4057	13.375	17.5	40	NA	NA
Oxy									PBTD			4090	9.625	12.25	1538	425	CIRC
													7	8.75	4369	570	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 PBTD	Top Perf	Bot. Perf	Sqz. Perfs	Csg. Size	Hole Size	Depth	No. of Sxs.	TOC
Oxy													9.625	12.25	1508	580	CIRC
													7	8.75	4379	925	CIRC
32424	30-025-	23130	32	-18S	-38E	H		P	5210	4128	4244	NONE	13.375	17.5	350	350	CIRC**
Oxy									PBTD				8.625	12.25	3790	1300	CIRC**
													5.5	7.875	3580-7015	650	3580**
32432	30-025-	26974	32	-18S	-38E	I	10//80	I	4216	4062	4214	4227-4252	16	20	40	40	CIRC
Oxy									CMT				8.625	12.25	1600	850	CIRC
													5.5	7.875	4400	950	CIRC
32441	30-025-	07536	32	-18S	-38E	P	8//30	P	4244	4112	4244	4060-4087	12.5	16	188	125	CIRC
Oxy													9.625	12.25	2750	400	1595**
													7	8.75	3971	250	2662**
													5	6.25	4234	60	3500-CBL
32531	30-025-	34374	32	-18S	-38E	J	6//98	P	4354	4098	4233	4052-4075	14	18	40	50	CIRC**
Oxy									PBTD				8.625	12.25	1553	800	CIRC
													5.5	7.875	4400	1000	CIRC**
32542	30-025-	34375	32	-18S	-38E	I	7//98	P	4444	4105	4250	NONE	14	18	40	50	CIRC**
Oxy									PBTD				8.625	12.25	1581	800	CIRC
													5.5	7.875	4600	1000	CIRC
33111	30-025-	12505	33	-18S	-38E	D	9//30	P	4160	4050	4176	4011-4021	12.5	16	240	200	CIRC
Oxy									PBTD			4041-4048	9.625	11.75	2750	600	CIRC
												4061-4070	7	8.75	3968	225	2520-CBL
												4130-4136	5.5	7.875	3923-4236	95	CIRC**
												4142-4149					
												4150-4166					
												4171-4172					
33121	30-025-	07559	33	-18S	-38E	E	8//30	P	4279	4053	4223	NONE	12.5	16	184	NA	NA
Oxy													9.625	11.75	2755	NA	NA
													7	8.75	3951	250	2632**
													4.5	6.25	4279	175	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	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.	TOC
Oxy									PBTD				9.625	12.25	3958	550	1640**
													7	8.75	7040	700	3500-TS
33141	30-025-	07543	33	-18S	-38E	M	9//30	P	4254	4062	4249	NONE	12.5	16	209	165	CIRC
Oxy									PBTD				9.625	11.75	2738	500	903**
													7	8.75	3976	275	2313**
													5	6.25	3828-4261	45	3828
33142	30-025-	28411	33	-18S	-38E	M	12//83	I	4296	4067	4236	4027	16	20	40	NA	CIRC
Oxy									PBTD			4040	8.625	12.25	1540	750	CIRC
												4068-4116	5.5	7.875	4370	910	320-CBL
33221	30-025-	07560	33	-18S	-38E	F	9//30	I	4185	4047	4230	606	12.5	16	237	125	CIRC
Oxy									CIBP			3145-3146	9.625	11.75	2770	400	CIRC
												4043-4052	7	8.75	4012	275	CIRC
													5	6.25	4242	100	2850-CBL
33222	30-025-	26975	33	-18S	-38E	F	10//80	I	4322	4054	4276	4206-4210	16	20	40	40	CIRC
Oxy									CIBP			4214-4218	8.625	12.25	1600	800	CIRC
													5.5	7.875	4400	1100	CIRC
33231	30-025-	07545	33	-18S	-38E	K	10//30	I	4259	4042	4228	4043-4050	15.5	18	183	250	CIRC
Oxy													9.625	12.25	2732	600	990**
													7	8.75	3946	310	2860-CBL
													5	6.25	3860-4235	50	3871
33232	30-025-	26834	33	-18S	-38E	K	9//80	I	4395	4130	4148	4050-4054	16	20	40	40	CIRC
Oxy									PBTD			4096-4101	8.625	12.25	1590	700	CIRC
													5.5	7.875	4439	750	CIRC
State A #1	30-025-	12504	32	-18S	-38E	G	6//30	P	3750	3585	3685	NONE	12.5	16.5	222	135	CIRC**
Oxy									PBTD				9	12.25	2755	600	977**
													7	8.75	3850	200	3139**
State A #6	30-025-	22944	32	-18S	-38E	G	4//69	P	5861	5805	5929	NONE	13.375	17.5	357	350	CIRC
Oxy													8.625	11.75	3820	800	CIRC
													5.5	7.875	3566	500	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
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	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.	TOC
St A #4	30-025-	23076		32	-18S	-38E	B	4//69	TA	5325	5375	5966	NA	11.75	15	380	350	CIRC
Amerada										CIBP				8.625	11	3810	590	2400
														5.5	7.875	5998	325	5281**
St A #5	30-025-	23116		32	-18S	-38E	A	6//69	P	6954	6674	6936	NA	11.75	15	385	400	CIRC**
Amerada														8.625	11	3798	590	1099**
														5.5	7.875	7000	501	4772**
State B #5	30-025-	07434		29	-18S	-38E	G	12//48	P	3224	3136	3224	1680-1682	10.75	13.75	220	200	CIRC**
Collins & Ware														7.625	9.875	1665	300	CIRC**
														5.5	6.75	3136	300	CIRC**
State B #6	30-025-	07435		29	-18S	-38E	F	1//47	P	3219	3137	3219	NONE	7.625	9.875	414	200	390
Collins & Ware														5.5	6.75	3137	394	CIRC**
St I #5	30-025-	23173		29	-18S	-38E	O	7//69	P	6970	6648	6930	NONE	8.625	12.25	3808	300	3418**
Texland Pet.														6.625	8.75	3575	530	CIRC**
														5.5	7.875	7022	NA	NA
State A #7	30-025-	22934		29	-18S	-38E	N	2//69	P	6050	5823	5941	NONE	11.75	15	360	250	CIRC**
Conoco														8.625	11	3800	240	2515-TS
														5.5	7.875	6050	405	3300-TS
State A #8	30-025-	23048		29	-18S	-38E	K	4//69	TA	3567	3652	5787	5824-5924	11.75	15	360	250	CIRC**
Conoco										CIBP				8.625	11	3800	240	3064**
														5.5	7.875	5960	405	4309**
State A-33 # 12	30-025-	23195		33	-18S	-38E	L	9//69	P	6985	6686	6946	NONE	13.375	17.5	422	375	CIRC
Conoco/Brothers Prod.										PBTD				9.625	12.5	3750	325	2850
														7	8.75	7018	525	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	Well	TD or	Top	Bot.	Sqz.	Csg.	Hole		No. of	
Operator						Ltr	Date	Type	PBTD	Perf	Perf	Perfs	Size	Size	Depth	Sxs.	TOC
Bowers A Fed. #28	30-025-	23022	29	-18S	-38E	M	4//69	P	5345	5856	5928	NONE	11.75	15	374	300	CIRC**
Exxon									CIBP				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		No. of	
Operator						Ltr	Date	Type	PBTD	Perf	Perf	Perfs	Size	Size	Depth	Sxs.	TOC
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//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//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//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//48	SI	3213	3116	3213	NONE	8.625	11	301	125	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		No. of	
Operator						Ltr	Date	Type	PBTD	Perf	Perf	Perfs	Size	Size	Depth	Sxs.	TOC
Marathon													5.5	7	3116	1000	CIRC
State #8	30-025-	07542	32	-18S	-38E	I	7//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//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//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//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	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//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	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//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		No. of	
Operator						Ltr	Date	Type	PBTD	Perf	Perf	Perfs	Size	Size	Depth	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		No. of	
Operator						Ltr	Date	Type	PBTD	Perf	Perf	Perfs	Size	Size	Depth	Sxs.	TOC
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//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//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//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//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//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//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//67	PA	38	32	38	NONE	6.625	6.75	10	3	CIRC**
ARC																	

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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		No. of	
Operator						Ltr	Date	Type	PBTD	Perf	Perf	Perfs	Size	Size	Depth	Sxs.	TOC
Bowers Fed. A #3	30-025-	22126	30	-18S	-38E	J	6//67	PA	38	10	38	NONE	7	7.875	10	3	CIRC**
ARC Ind.																	
Bowers Fed. A #4	30-025-	22127	30	-18S	-38E	J	7//67	PA	38	10	38	NONE	6.625	6.75	10	3	CIRC
ARC Ind.																	
Bowers Fed. A #5	30-025-	22189	30	-18S	-38E	J	7//67	PA	38	10	38	NONE	6.625	6.75	10	3	CIRC
ARC Ind.																	
Bowers Fed. A #6	30-025-	22276	30	-18S	-38E	J	10//67	PA	45	10	45	NONE	5.5	6.75	10	3	CIRC**
ARC Ind.																	
Bowers Fed. A #10	30-025-	22147	30	-18S	-38E	J	6//67	PA	38	10	38	NONE	7	7.875	10	3	CIRC**
ARC Ind.																	
Bowers Fed. A #11	30-025-	22148	30	-18S	-38E	J	6//67	PA	38	10	38	NONE	6.625	6.75	10	3	CIRC**
ARC Ind.																	
Bowers Fed. A #12	30-025-	22190	30	-18S	-38E	J	10//67	PA	45	10	45	NONE	6.625	6.75	10	3	CIRC**
ARC Ind.																	
F.A Bowers #13	30-025-	22277	30	-18S	-38E	J	10//67	PA	45	10	45	NONE	5.5	6.75	10	3	CIRC**
ARC Ind.																	
Grimes #5	30-025-	07414	28	-18S	-38E	O	12//47	PA	3218	3199	3209	3199-3209	10.75	13.75	422	300	CIRC**
Conoco													5.5	7.375	3204	650	CIRC**
Grimes #6	30-025-	07415	28	-18S	-38E	J	12//47	PA	3255	3236	3249	NONE	10.75	12.25	424	350	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		No. of	
Operator						Ltr	Date	Type	PBTD	Perf	Perf	Perfs	Size	Size	Depth	Sxs.	TOC
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	N A	NA	8.625	11	236	100	CIRC**
Exxon									PBTD				5.5	7.625	3144	675	880-TS

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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		No. of	
Operator						Ltr	Date	Type	PBTD	Perf	Perf	Perfs	Size	Size	Depth	Sxs.	TOC
Bowers A #14	30-025-	07451	29	-18S	-38E	O	8//47	PA	3207	3162	3207	NONE	8.625	11	496	400	CIRC**
Exxon													5.5	7.625	3120	1350	CIRC**
Bowers A-B #1	30-025-	07453	29	-18S	-38E	D	9//48	PA	3238	3179	3238	NA	8.625	11	260	150	CIRC**
Exxon										OH			5.5	7.625	3179	1050	CIRC**
Bowers A Fed. #9	30-025-	07446	29	-18S	-38E	E	8//30	PA	4259	NA	NA	NA	9.625	12	2750	650	CIRC**
Exxon													7	8.75	3976	300	2011**
													5	6.25	4259	NA	NA
Bowers A Fed. #13	30-025-	07476	30	-18S	-38E	J	7//47	PA	3189	3148	3189	NA	8.625	11	225	200	CIRC**
Exxon										OH			5.5	7.625	3150	1350	CIRC**
Bowers A Fed. #17	30-025-	21900	30	-18S	-38E	J	10//66	PA	50	10	50	NONE	7	8	12	6	CIRC**
Exxon																	
Bowers A Fed. #31	30-025-	23176	29	-18S	-38E	E	6//69	PA	7050	6075	6991	NONE	8.625	11	3836	500	1858**
Exxon													5.5	7.875	7038	650	3125**
													2	7.875	7005	NA	NA
Bowers A Fed. #33	30-025-	23222	29	-18S	-38E	D	7//69	PA	3970	4144	5953	4256-66	13.375	17	416	400	CIRC**
Exxon									CIBP			5939	9.625	12.25	3836	350	2555-TS
													7	8.75	5988	550	2900-TS
Bowers A Fed. #34	30-025-	23260	30	-18S	-38E	J	8//69	PA	7010	5822	6979	5848-98	9.625	12.25	3850	550	2296**
Exxon												6932-75	3.5 B	7.875	6088	895	2600**
													3.5 D	7.875	6098	895	2615**
Bowers A Fed. #CT24	30-025-	21963	29	-18S	-38E	E	1//67	PA	35	NA	NA	NA	NA	NA	NA	NA	NA
Humble																	
Bowers A Fed. #CT25	30-025-	21964	29	-18S	-38E	E	1//67	PA	35	NA	NA	NA	NA	NA	NA	NA	NA

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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		No. of	
Operator						Ltr	Date	Type	PBTD	Perf	Perf	Perfs	Size	Size	Depth	Sxs.	TOC
Exxon																	
Bowers A Fed. #CT26	30-025-	21969	30	-18S	-38E	J	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//67	PA	35	NA	NA	NA	NA	NA	NA	NA	NA
Exxon																	
WD Grimes #2	30-025-	07455	29	-18S	-38E	A	2//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//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//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//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//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//30	PA	3227	3140	3203	NONE	12.5	16	1482	175	1046**
Ohio Oil									PBTD				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//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	Well	TD or	Top	Bot.	Sqz.	Csg.	Hole		No. of	
Operator						Ltr	Date	Type	PBTD	Perf	Perf	Perfs	Size	Size	Depth	Sxs.	TOC
WD Grimes #5	30-025-	07424	28	-18S	-38E	L	7//47	PA	3150	3191	3197	NONE	8.625	11	409	195	CIRC**
Shell									CMT				4.5	7.875	1958	600	CIRC**
WD Grimes #6	30-025-	12500	28	-18S	-38E	M	7//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//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//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//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//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//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//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//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//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.	TOC
Tidewater													9.625	12.25	2715	600	277**
													7	8.75	3911	400	595**

** Denotes calculated TOC with 50% efficiency

WELL SCHEMATIC:
ALTURA NHU 29-421

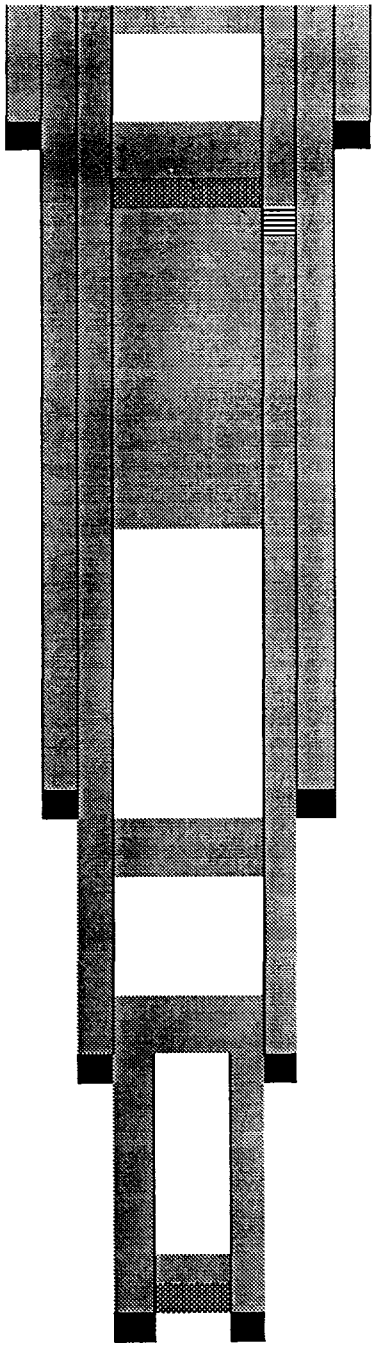
WELL PLUGGED:
12/3/97

12.5"
220'
200 SX
TOC: CIRC

9.625"
2720'
600 SX
TOC: 518'

7"
3880'
300 SX
TOC: 2914 CBL

5.5"
3796'-4236'
50 SX
TOC: 3866'



10 sx cmt from 62' to surf.

Stung out and left 60' cmt on Top of ret.

Perf at 500'. Set CICR at 308'

Squeeze 100 sx cmt below Ret. to surf in 7" csg. x 9.625" Csg.

Pumped 20 sx cmt from 1868 To 1748'.

Pumped 20 sx cmt from 2862 To 2742'.

Pumped 20 sx cmt from 3873 To 3722'.

Set CIBP at 4100'. Cap w/40' Cmt.

WELL SCHEMATIC:
EXXON BOWERS A FED #9

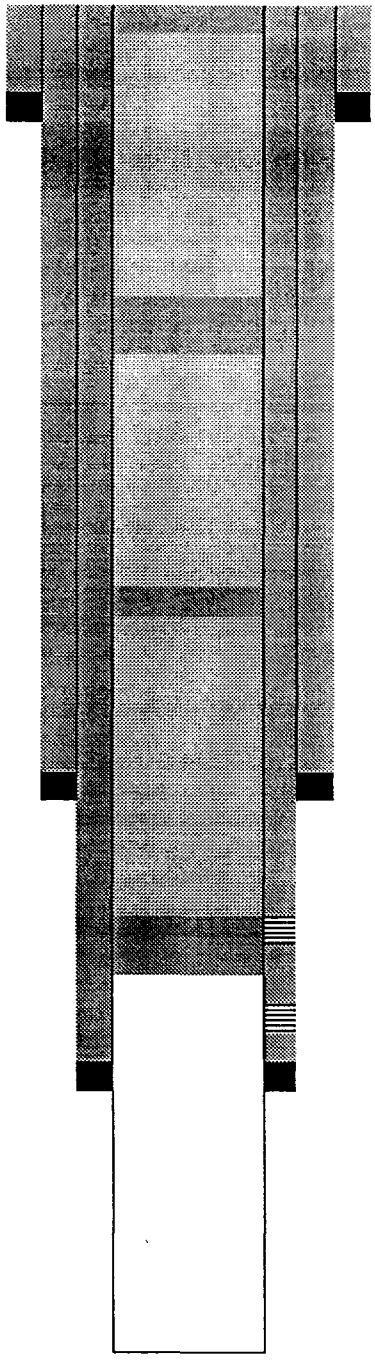
WELL PLUGGED:
12/3/70

12.5"
213'
650 SX
TOC: SURF (C)

9 5/8"
2736'
650 SX
TOC: SURF (C)

7"
3970'
300 SX
TOC: 2000(C)

TD: 4259'



Spotted 10 sx cmt plug from 0' to 25 '.

Hole was loaded with mud Laden fluids.

Spotted 20 sx cmt plug from 1400' to 1550'.

Spotted 40 sx cmt plug from 2300' to 2400'.

Perf's at 3220'-3227'.

Spotted 50 sx cmt plug from 3000' to 3250'.

Squeezed perf's at 3726' To 3741'.

WELL SCHEMATIC:
TIDEWATER WD GRIMES #1

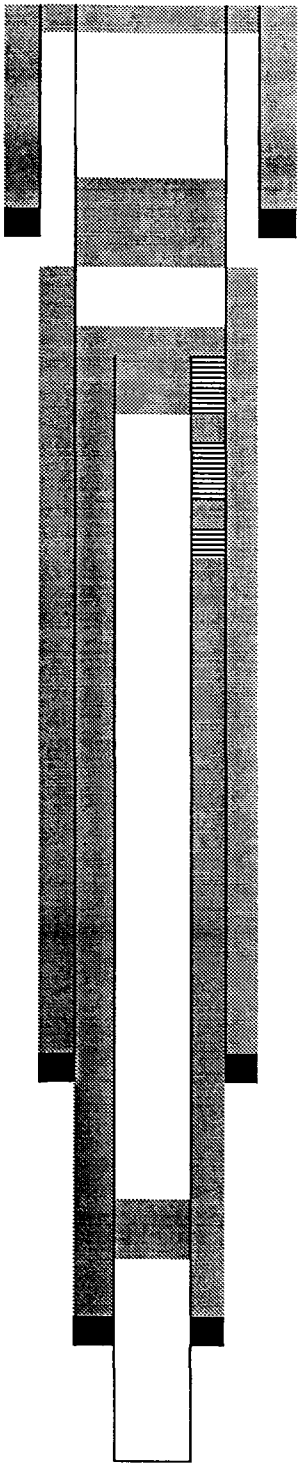
WELL PLUGGED:
7/25/68

Size: 12 ½"
Depth: 236'
Hole size: 17.5"
Cmt: 200 sxs
TOC: Circ. – Calc.
With 50% effic.

Size: 9 5/8"
Depth: 2712'
Hole size: 12.25"
Cmt: 600 sxs
TOC: 273'- Calc.
With 50% effic.

Size: 7"
Depth: 3826'
Hole size: 8.75"
Cmt: 300 sxs
TOC: 800' FP

TD:4160'



Laid 10 sx plug at surface.

Laid 25 sx cmt at bottom of 12 ½" csg.

Laid 25 sx over 7" stub.
Shot at 787' and pulled.
Shot at 899'.

Shot at 1044'.
Shot at 1193'.

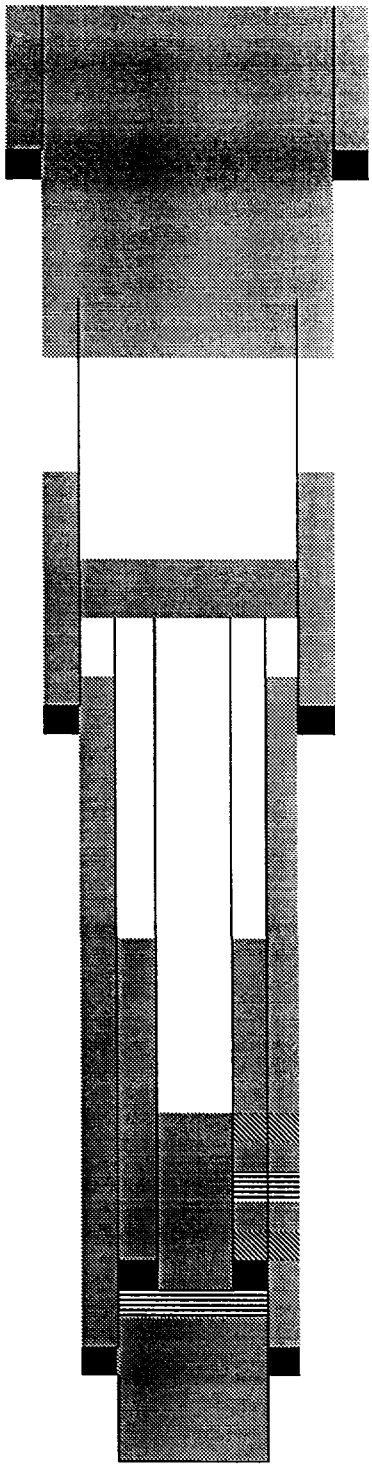
Shot at 1404'.

Spotted 25 sx cmt plug from 3599' to 3467'.

W.D. Grimes #2
Tidewater Oil Co.
Unit H, 990 FEL & 2310 FNL
Sec 29, T-18S, R-38E

WELL PLUGGED:
2/18/82

Size: 15.5"
Depth: 230'
Hole size: 17.5"
Cmt: 200 sxs
TOC: Circ. – Calc.
50% efficiency



Circ. 15335 sxs from 1361 to surface

Cut off 9.625" at 1200'

25 sxs cmt. Plug

Cut off 7 and 5.5" at 2030'

Size: 9.625"
Depth: 2718'
Hole size: 12.25"
Cmt: 600 sxs
TOC:

Size: 5.5"
Depth: 3350
Hole size: 7"
Cmt: 100
TOC: 3088' – Calc
with 50% effc.

15 sxs plug

Perfs 3086-88, sqz'd w/ 100 sxs

Perfs 3148-3255

Perfs 3270-72, sqz'd w/ 50 sxs

Size: 7"
Depth: 3880'
Hole size: 8.75"
Cmt: 300 sxs
TOC:

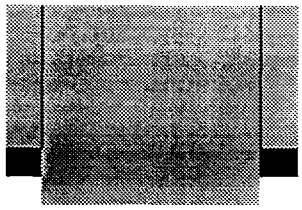
Cmt Ret. 3350'

TD: 4176

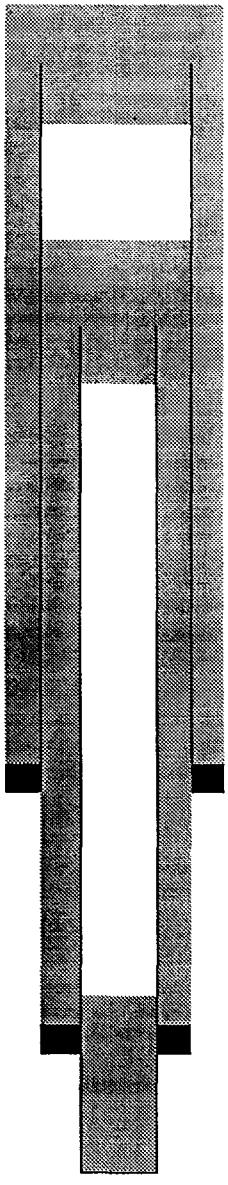
Tidewater Oil Co.
Unit H, 1650 FNL & 990 FEL
Sec. 29, T-18S, R-38E

WELL PLUGGED:
3/17/81

Size: 12.5"
Depth: 214'
Hole Size: 17.5"
Cmt: 325 sxs
TOC: Circ.



Spotted 500 sxs at 400' to surface



9.625" top at 1198

Spotted 100 sxs at 1249'

7" top at 1750'

Spotted 100 sxs at 1800'

Size: 9.625"
Depth: 2715'
Hole Size: 12.25"
Cmt: 600 sxs
TOC:

Size: 7"
Depth: 3911'
Hole size: 8.75"
Cmt: 400 sxs
TOC:

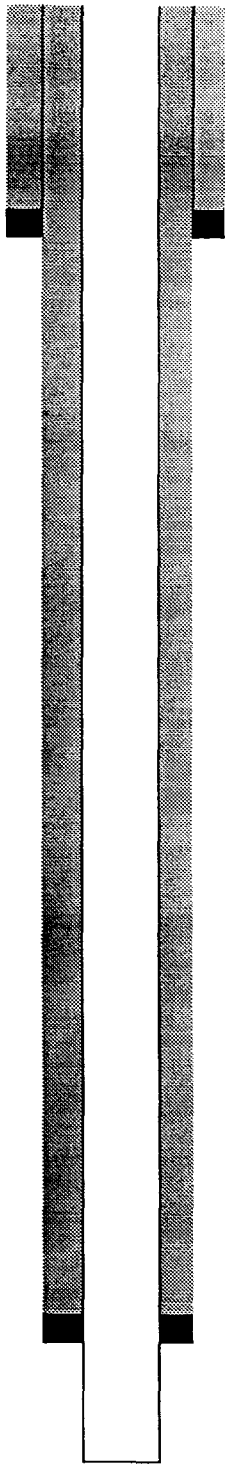
Spotted 100 sxs at 4107

TD: 4200'

W.D. Grimes #3
Sinclair Oil and Gas Co.
Unit E, NW/4
Sec 28, T-18S, R-38E

WELL PLUGGED:
8/24/50

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



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

TD: 3222'

WELL SCHEMATIC:
STD OF TX- STATE #1

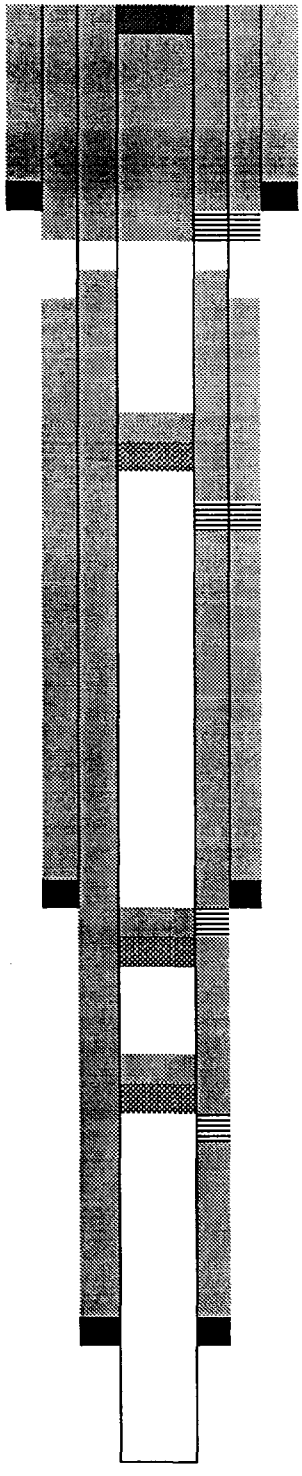
WELL PLUGGED:
11/25/89

Size: 13 3/8"
Depth: 217'
200 SX
TOC: SURF (C)
TOC: Circ. – Calc.
With 50% effic.

Size: 9"
Depth: 2735'
Hole size: 12.25"
Cmt: 500 sxs
TOC: 1200'- Calc.
With 50% effic.

Size: 6 5/8"
Depth: 3907'
Hole size: 7.875"
Cmt: 357 sxs
TOC: Circ. – Calc.
With 50% effic.

TD: 4191'



Weld ½" plate on top.

Perf 6 5/8" and 9" at 267'.
Pumped 170 sx cmt down
Prod csg, circ cmt out
Intermediate and surf csg
Annuli. Cut off 6 5/8" csg 3'
Below GL. Cap w/ ½" plate
And valve wellbore.

Set cicr at 1404'.

Perf 6 5/8" and 9" at 1500'.
Sqzd perfs w/200 sx cmt.

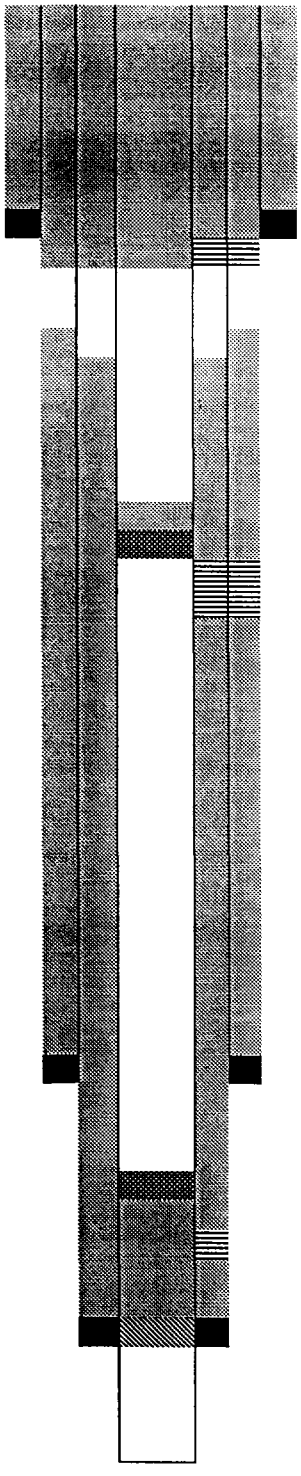
Perfd 6 5/8" csg at 2785'.
Sqzd perfs w/55 sx cmt.
Set cast iron cmt ret at 2681'.
Cap cmt ret w/35' cmt.

Capped CICR w/35' cmt to
3000'.
Set cast iron cmt ret at 3060'
Sqzd perfs w/106 sx to 3000'
Perfs at 3138' to 3241'

WELL SCHEMATIC:
STD OF TX STATE #2

WELL PLUGGED:
12/5/89

Size: 13"
Depth: 225'
Hole size: 17.5"
Cmt: 150 sxs
TOC: Circ. – Calc.
With 50% effic.



Sqzd perfs at 292' with 220 sx. Circ to surface

Size: 9 5/8"
Depth: 2810'
Hole size: 12.25"
Cmt: 725 sxs
TOC: Circ. – Calc.
With 50% effic.

Set cicr at 1404' and capped With cmt.
Perf'd at 1500'.
Sqzd perfs at 1500' with 300 sx

Size: 7"
Depth: 3951'
Hole size: 8.75"
Cmt: 300 sxs
TOC: 1240'- Calc.
With 50% effic.

PBTD: 3072'

Set cicr at 2744'.

Perfs sqzd at 2852', sqzd With 55 sx.
Dumped 35' cmt onto CIBP.
CIBP at 3072'

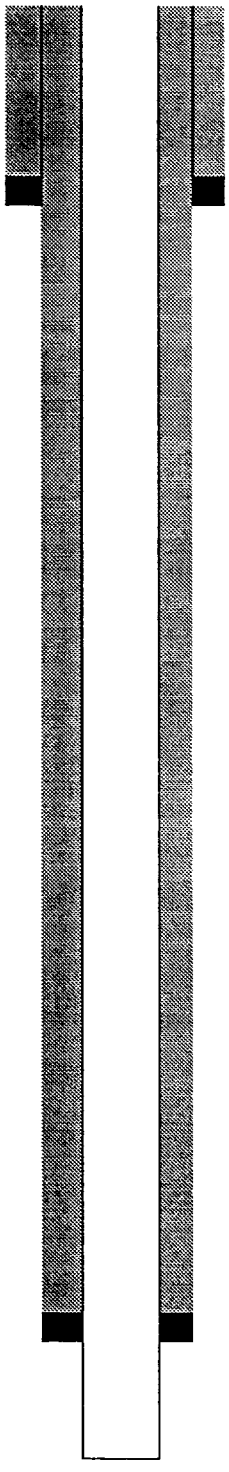
W.D. Grimes #5
Shell Oil Co.
Unit L, NW/4 of SW/4
Sec 28, T-18S, R-38E

WELL PLUGGED:
12/15/53

Size: 8.625"
Depth: 409'
Hole size: 11"
Cmt: 195 sxs
TOC: Circ.- Calc.
50% efficiency

Size: 4.5"
Depth: 1958'
Hole size: 7.875"
Cmt: 600 sxs
TOC: Circ.- Calc.
50% efficiency

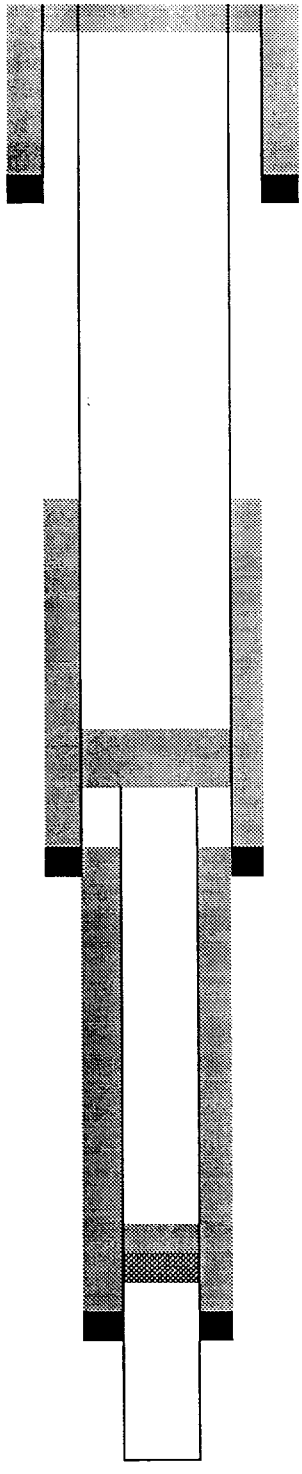
PBTD: 3150'-Cmt.



WELL SCHEMATIC:
NE-O-TEX HOBBS STATE #5

WELL PLUGGED:
5/11/73

Size: 9 5/8"
Depth: 364'
Hole size: 12.25"
Cmt: 200 sxs
TOC: Circ. – Calc.
With 50% effic.



Spotted 10' cmt plug at surf.

Size: 7"
Depth: 3826'
Hole size: 8.75"
Cmt: 200 sxs
TOC: 2250'

Shot and pulled csg at 3744'.
Pumped 255 sx cmt plug
From 3744' to 3644'.

Size: 41/2"
Depth: 5986'
Hole size: 6.25"
Cmt: 120 sxs
TOC: 3800'- Calc.
With 50% effic.

Set 4 ½" CIBP at 5757' and
Capped with 35' cmt. Est.
TOC is 5722'.

PBTD: 5959'

TD: 5986'

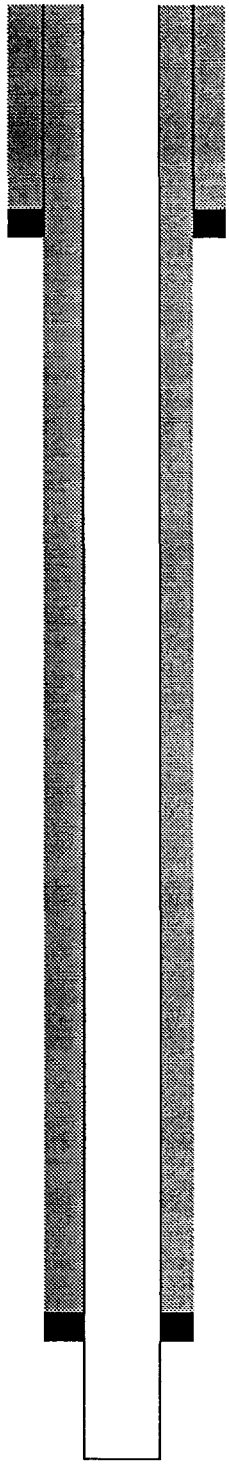
W. D. Grimes #2
Humble Oil & Refining Co.
Unit A, NE/4 of NE/4
Sec 29, T-18S, R-38E

WELL PLUGGED:
3/23/48

Size: 8.625"
Depth: 242'
Hole size: 11"
Cmt: 150 sxs
TOC: Circ.- Calc.
50% efficiency

Size: 5.5"
Depth: 3140'
Hole size: 7.375"
Cmt.: 450 sxs
TOC: Circ.- Calc.
50% efficiency

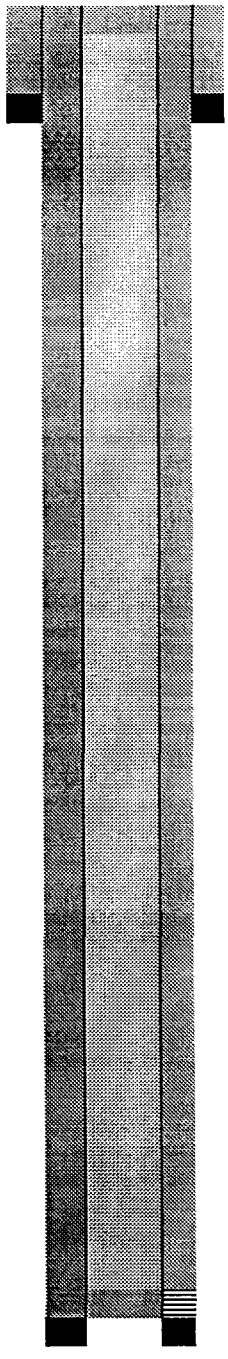
TD: 4045'



WELL SCHEMATIC:
CONOCO STATE A #4

WELL PLUGGED:
1/12/71

Size: 10 ¾"
Depth: 200'
Hole size: 15"
Cmt: 250 sxs
TOC: Circ. – Calc.
With 50% effic.



Spotted a 10 sx cmt plug at Surface.

Filled well bore with 10# mud.

Size: 5 ½"
Depth: 3215'
Hole size: 7.875"
Cmt: 600 sxs
TOC: Circ. – Calc.
With 50% effic.

TD: 3215'

Set a 40 sx cmt plug over Perfs from 3164' to 3197'.

WELL SCHEMATIC:
CONOCO STATE A #5

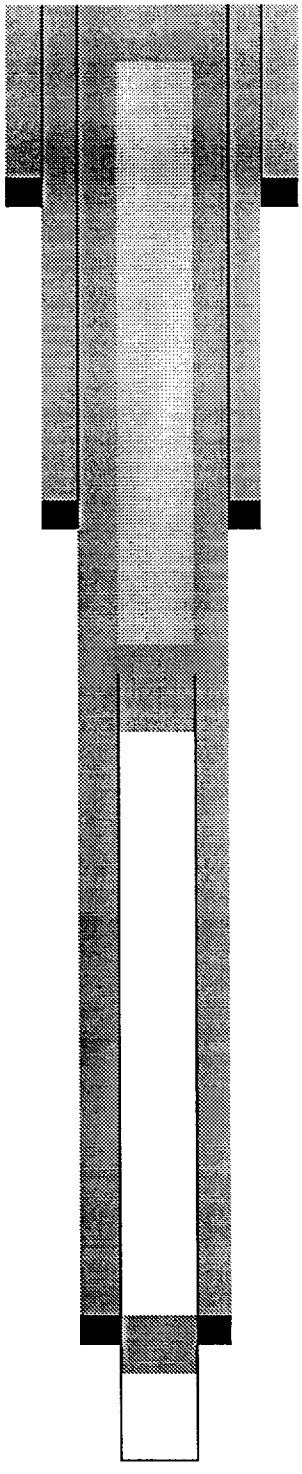
WELL PLUGGED:
1/12/71

Size: 10 ¾"
Depth: 272'
Hole size: 15"
Cmt: 200 sxs
TOC: Circ. – Calc.
With 50% effic.

Size: 7 5/8"
Depth: 999'
Hole size: 9.875"
Cmt: 425 sxs
TOC: Circ. – Calc.
With 50% effic.

Size: 5 ½"
Depth: 3206'
Hole size: 7.875"
Cmt: 450 sxs
TOC: Circ. – Calc.
With 50% effic.

PBTD:3168'



Spotted a 10 sx cmt plug
At surface.

Filled well bore with 10# mud

Cut 5 ½" csg at 1570' and
Pulled out of hole. Set a 55
Sx cmt plug in and out of
5 ½" stub.

Spotted 40 sx cmt plug over
Perfs from 3188' to 3168'.

LIST OF OFFSET OPERATORS & SURFACE OWNERS

North Hobbs (Grayburg/San Andres) Unit
Well No. 321
Letter G, Section 29, T-18-S, R-38-E
Lea County, New Mexico

Offset Operators

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

Conoco Inc.
10 Desta Dr. West
Midland, TX 79705

Lewis B. Burleson, Inc.
P.O. Box 2479
Midland, TX 79705

HRC, Inc.
P.O. Box 5102
Hobbs, NM 88241

Collins & Ware, Inc.
508 W. Wall, Suite 1200
Midland, TX 79701

Marcum Drilling Co.
P.O. Box 3699
Midland, TX 79705

Rice Operating Co.
122 West Taylor
Hobbs, NM 88240

Surface Owners

Grimes Land Company
P.O. Box 5102
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:

Grimes Land Company
P.O. Box 5102
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 9098

PS Form 3811, July 1999 Domestic Return Receipt 102595-99-M-1789

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:

Rice Operating Co.
122 West Taylor
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 9104

PS Form 3811, July 1999 Domestic Return Receipt 102595-99-M-1789

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:

Marcum Drilling Co.
P.O. Box 3699
Midland, TX 79705

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 9111

PS Form 3811, July 1999 Domestic Return Receipt 102595-99-M-1789

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:

Collins & Ware, Inc.
508 W. Wall, Suite 1200
Midland, TX 79701

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 9128

PS Form 3811, July 1999 Domestic Return Receipt 102595-99-M-1789

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:

Conoco Inc.
10 Desta Dr. West
Midland, TX 79705

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 9142

PS Form 3811, July 1999 Domestic Return Receipt 102595-99-M-1789

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:

Lewis B. Burleson, Inc.
P.O. Box 2479
Midland, TX 79705

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 9173

PS Form 3811, July 1999 Domestic Return Receipt 102595-99-M-1789

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:

HRC, Inc.
P.O. Box 5102
Hobbs, NM 88241

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 9180

PS Form 3811, July 1999 Domestic Return Receipt 102595-99-M-1789

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

Jodi Henson

Notary Public.

My Commission expires
October 18, 2000
(Seal)

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

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

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 N Hobbs GB/SA Unit #321-G-29-18s-38e 30-025-07431
Operator Lease & Well No. Unit S-T-R

and my recommendations are as follows:

OK

Yours very truly,

Chris Williams

Chris Williams
Supervisor, District 1

/ed