

RELEASE 6.2.93



OXY USA INC.
Box 50250, Midland, TX 79710

May 14, 1993

State of New Mexico
Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87504

Attention: Mr. Bill Lemay, Director

**Re: Application of OXY USA Inc. for Expansion of Authorization to
Inject (C-108) for the Skelly Penrose "B" Unit, Queen
Formation, Langlie-Mattix Pool, Lea County, New Mexico**

Dear Mr. Lemay:

Please find enclosed our application to expand our existing C-108 authority for the Skelly Penrose "B" Unit. Publication of the legal notice has been requested and will be forwarded as soon as it is available. All parties listed on the attached service list have been sent a copy of this application. Proof of such will also be sent as soon as possible. If you have any questions relating to this request please call me at 915/685-5913 or Scott Gengler at 915/685-5825. Thank you for considering our application.

Sincerely,

A handwritten signature in cursive script that reads "Richard E. Foppiano".

Richard E. Foppiano
Regulatory Affairs Advisor
Western Region - Midland

REF/ref

XC: NMOCD, Santa Fe (orig + 2 copies)
NMOCD, Hobbs
Tom Kellahin
Parties on Service List, certified mail

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☒ Secondary Recovery ☐ Pressure Maintenance ☐ Disposal ☐ Storage
Application qualifies for administrative approval? ☒ yes ☐ no
- II. Operator: OXY USA Inc.
Address: P. O. Box 50250 Midland, TX 79710
Contact party: Scott E. Gengler Phone: (915) 685-5825
- III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? ☒ yes ☐ no
If yes, give the Division order number authorizing the project ~~R-2945~~ R-2956.
- 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 geological data on the injection zone including appropriate lithologic detail, geological 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 source 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 source 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: Scott E. Gengler Title: Engineering Advisor
Signature: *Scott E. Gengler* Date: 5/14/93
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal. R-2956, original application

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 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, P. O. Box 2088, Santa Fe, New Mexico 87501 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.

SERVICE LIST

OFFSET OPERATORS:

Texaco Exploration and Production
P. O. Box 730
Hobbs, New Mexico 88241-0730

Anadarko Petroleum Corp.
P. O. Box 130
Artesia, New Mexico 88211-0130

BC & D Oil and Gas Corp.
P. O. Box 5926
Hobbs, New Mexico 88241

Doyle Hartman
500 N. Main
Midland, Texas 79701

Conoco Inc.
3817 NW Expressway, Suite 400
Oklahoma City, OK 73018

Samedan Oil Corp.
10 Desta Drive, Suite 240E.
Midland, Texas 79705

Earl Bruno
P. O. Box 5456
Midland, Texas 79704

Surface Owners:

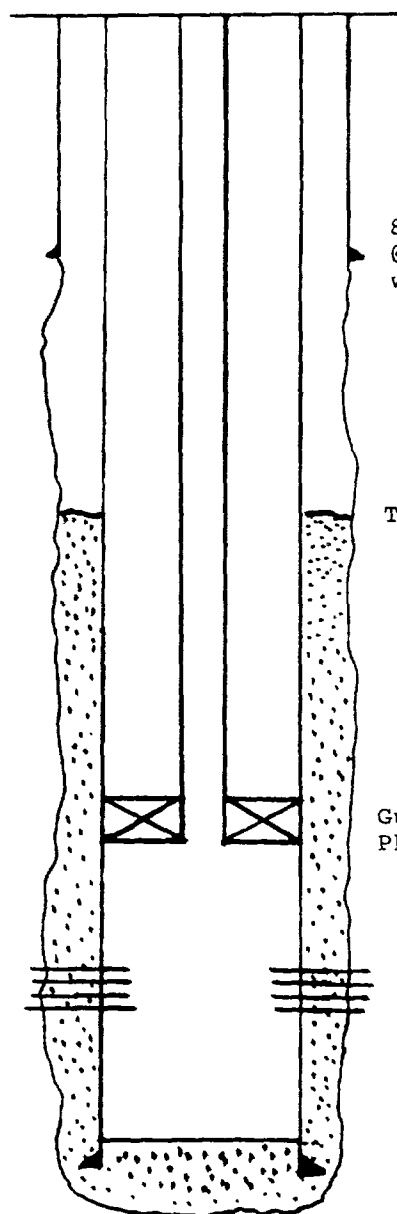
Jimmy Weir
c/o Byno Salsman
P. O. Box 184
Centerpoint, Texas 78010

Millard Deck Estate
P. O. Box 2546
Fort Worth, Texas 76113

INJECTION WELL DATA SHEET

OXY USA Inc.
Skelly Penrose B Unit #18
660' FNL & 660' FEL, Section 5, T-23-S, R-37-E

	Size	Cement	Top of Cement - Determined By	Hole Size
Surface	8 5/8"	200 sx	Surface by Circulation	11"
Production	5 1/2"	850 sx	1535' by Temperature Survey	7 7/8"



Injection Perforations 3614' to 3744'

Injection Tubing 2 3/8" Polyethylene Lined

Injection Packer Guiberson G-6 @ 3550'

Injection Formation Queen (Penrose)

Field Langlie Mattix (SR-Queen-Grayburg)

New well drilled for injection No

If new well, for what purpose was the well originally drilled Producer

Has the well ever been perforated in any other zones No

Give the depth to and name of any other overlying or underlying oil or gas zones

North Teague Ellenburger - 10,200'

North Teague Fusselman - 8850'

Lea Co. Undes Group 4A (Devonian) - 7500'

Lea County Undes. Blinbry Gas - 5600'

Jalmat Tansill-Yates-7 Rvrs - 3000'

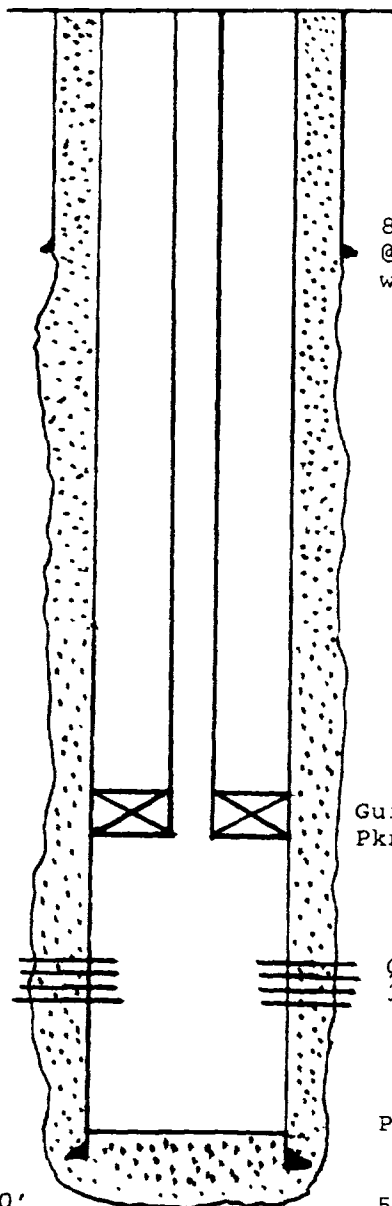
TD @ 3770'

5 1/2" Casing @ 3770'
Cemented w/ 850 sx

INJECTION WELL DATA SHEET

OXY USA Inc.
 Skelly Penrose B Unit #26
 1980' FNL & 990' FEL, Section 5, T-23-S, R-37-E

	Size	Cement	Top of Cement - Determined By	Hole Size
Surface	8 5/8"	275 sx	Surface by Circulation	11"
Production	5 1/2"	1200 sx	Surface by Circulation	8 5/8"



Injection Perforations 3659' to 3768'

Injection Tubing 2 3/8" Polyethylene Lined

Injection Packer Guiberson G-6 @ 3600'

Injection Formation Queen (Penrose)

Field Langlie Mattix (SR-Queen-Grayburg)

New well drilled for injection No

If new well, for what purpose was the well originally drilled Producer

Has the well ever been perforated in any other zones No

Give the depth to and name of any other overlying or underlying oil or gas zones

North Teague Ellenburger - 10,200'

North Teague Fusselman - 8850'

Lea Co. Undes Group 4A (Devonian) - 7500'

Lea County Undes. Blinbry Gas - 5600'

Jalmat Tansill-Yates-7 Rvrs - 3000'

8 5/8" Csg
@ 354' Cmtd
w/ 275 sx

Guiberson G-6
Pkr @ 3600'

Queen (Penrose) perfs
3659' to 3768'

PBTD @ 3774'

5 1/2" Casing @ 3780'
Cemented w/ 1200 sx

TD @ 3780'

INJECTION WELL DATA SHEET

OXY USA Inc.
Skelly Penrose B Unit #28
1980' FNL & 1980' FEL, Section 5, T-23-S, R-37-E

	Size	Cement	Top of Cement - Determined By	Hole Size
Surface	8 5/8"	200 sx	Surface by Circulation	11"
Production	5 1/2"	1100 sx	320' by Temperature Survey	7 7/8"

The diagram is a vertical cross-section of a well. It shows an outer casing (8 5/8" Csg) and an inner injection tubing (2 3/8" Polyethylene Lined). A packer (Guiberson G-6) is located at 3550'. Perforations for the Queen (Penrose) formation are shown between 3628' and 3724'. The well terminates at 3750' (TD). Cement is shown at the surface and around the production casing at 3750'.

Injection Perforations 3628' to 3724'

Injection Tubing 2 3/8" Polyethylene Lined

Injection Packer Guiberson G-6 @ 3550'

Injection Formation Queen (Penrose)

Field Langlie Mattix (SR-Queen-Grayburg)

New well drilled for injection No

If new well, for what purpose was the well originally drilled Producer

Has the well ever been perforated in any other zones No

Give the depth to and name of any other overlying or underlying oil or gas zones

North Teague Ellenburger - 10,200'

North Teague Fusselman - 8850'

Lea Co. Undes Group 4A (Devonian) - 7500'

Lea County Undes. Blinbry Gas - 5600'

Jalmat Tansill-Yates-7 Rvrs - 3000'

Guiberson G-6 Pkr @ 3550'

Queen (Penrose) perfs 3628' to 3724'

PBTD @ 3733'

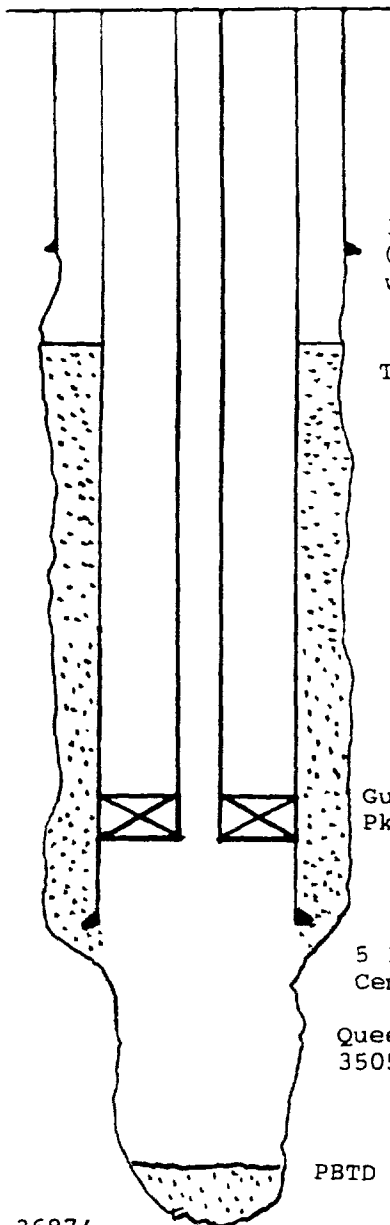
5 1/2" Casing @ 3750'
Cemented w/ 1100 sx

TD @ 3750'

INJECTION WELL DATA SHEET

OXY USA Inc.
Skelly Penrose B Unit #30
1980' FNL & 660' FWL, Section 5, T-23-S, R-37-E

	Size	Cement	Top of Cement - Determined By	Hole Size
Surface	10 3/4"	150 sx	Surface by Circulation	12 1/2"
Production	5 1/2"	175 sx	1100' by Temperature Survey	7 1/4"



Injection Interval 3505' to 3666'
(Open Hole)

Injection Tubing 2 3/8" Polyethylene Lined

Injection Packer Guiberson G-6 @ 3450'

Injection Formation Queen (Penrose)

Field Langlie Mattix (SR-Queen-Grayburg)

New well drilled for injection No

If new well, for what purpose was the well originally drilled Producer

Has the well ever been perforated in any other zones No

Give the depth to and name of any other overlying or underlying oil or gas zones
North Teague Ellenburger - 10,200'

North Teague Fusselman - 8850'

Lea Co. Undes Group 4A (Devonian) - 7500'

Lea County Undes. Blinbry Gas - 5600'

Jalmat Tansill-Yates-7 Rvrs - 3000'

5 1/2" Casing @ 3505'
Cemented w/ 175 sx

Queen (Penrose) Open Hole
3505' to 3666'

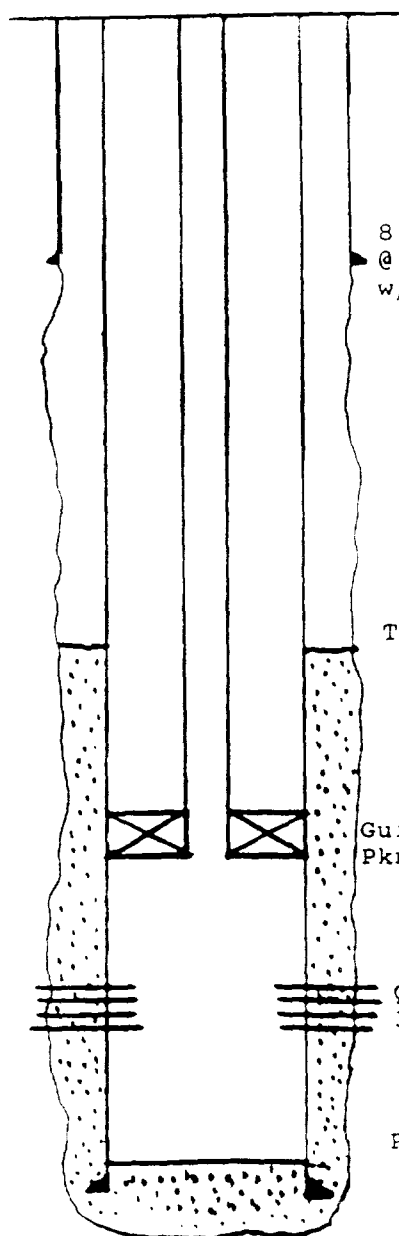
PBTD @ 3666'

TD @ 3687'

INJECTION WELL DATA SHEET

OXY USA Inc.
Skelly Penrose B Unit #31
1980' FSL & 660' FEL, Section 5, T-23-S, R-37-E

	Size	Cement	Top of Cement - Determined By	Hole Size
Surface	8 5/8"	250 sx	Surface by Circulation	11"
Production	5 1/2"	200 sx	2685' by Temperature Survey	7 7/8"



Injection Perforations 3580' to 3698'

Injection Tubing 2 3/8" Polyethylene Lined

Injection Packer Guiberson G-6 @ 3500'

Injection Formation Queen (Penrose)

Field Langlie Mattix (SR-Queen-Grayburg)

New well drilled for injection No

If new well, for what purpose was the well originally drilled Producer

Has the well ever been perforated in any other zones No

Give the depth to and name of any other overlying or underlying oil or gas zones
North Teague Ellenburger - 10,200'

North Teague Fusselman - 8850'

Lea Co. Undes Group 4A (Devonian) - 7500'

Lea County Undes. Blinbry Gas - 5600'

Jalmat Tansill-Yates-7 Rvrs - 3000'

TOC @ 2685'

Guiberson G-6
Pkr @ 3500'

Queen (Penrose) perfs
3580' to 3698'

PBTD @ 3709'

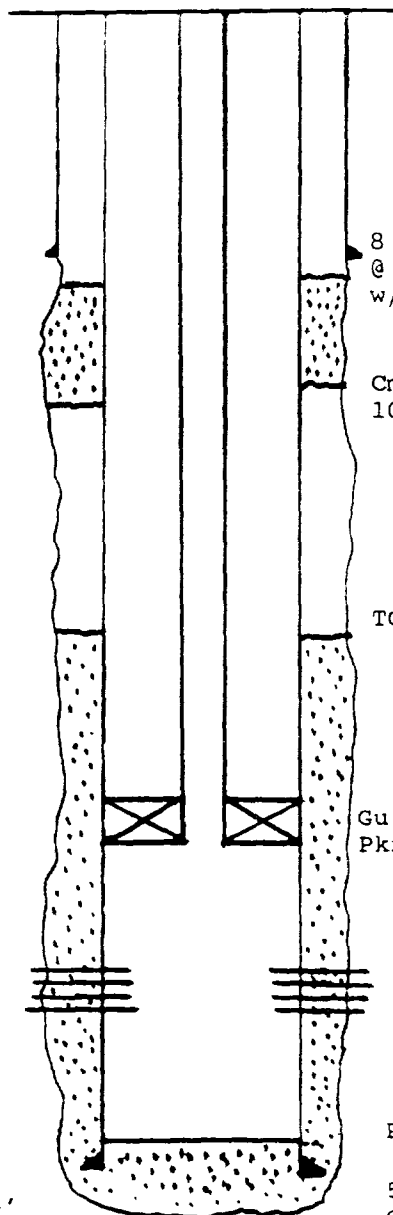
5 1/2" Casing @ 3710'
Cemented w/ 200 sx

TD @ 3710'

INJECTION WELL DATA SHEET

OXY USA Inc.
Skelly Penrose B Unit #33
1980' FSL & 1980' FWL, Section 5, T-23-S, R-37-E

	Size	Cement	Top of Cement - Determined By	Hole Size
Surface	8 5/8"	175 sx	Surface by Circulation	11"
Production	5 1/2"	200 sx	3724' to 2564' by Temp Svy 1010' to 490' by Cmt Bond Log	7 7/8"

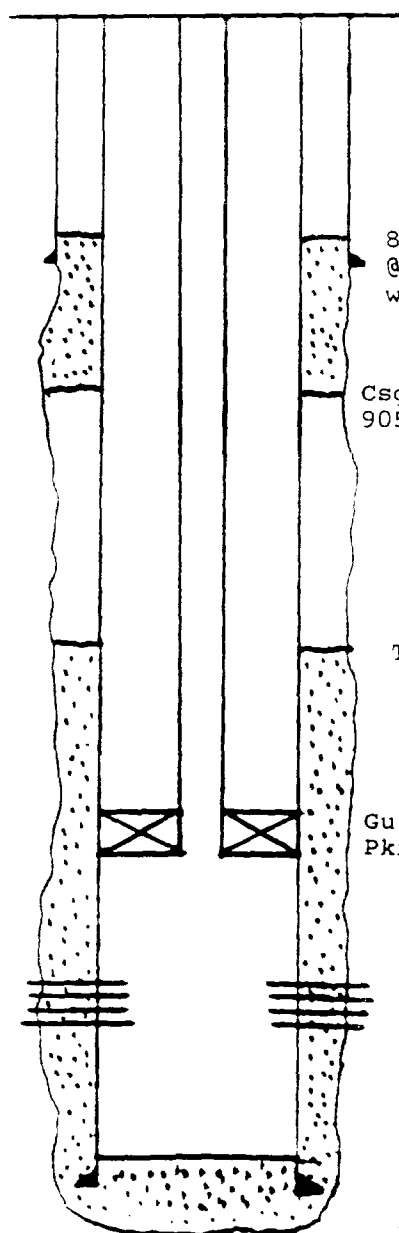


Injection Perforations 3610' to 3719'
Injection Tubing 2 3/8" Polyethylene Lined
Injection Packer Guiberson G-6 @ 3550'
Injection Formation Queen (Penrose)
Field Langlie Mattix (SR-Queen-Grayburg)
New well drilled for injection No
If new well, for what purpose was the well originally drilled Producer
Has the well ever been perforated in any other zones No
Give the depth to and name of any other overlying or underlying oil or gas zones
North Teague Ellenburger - 10,200'
North Teague Fusselman - 8850'
Lea Co. Undes Group 4A (Devonian) - 7500'
Lea County Undes. Blinbry Gas - 5600'
Jalmat Tansill-Yates-7 Rvrs - 3000'

INJECTION WELL DATA SHEET

OXY USA Inc.
Skelly Penrose B Unit #37
660' FSL & 660' FWL, Section 5, T-23-S, R-37-E

	Size	Cement	Top of Cement - Determined By	Hole Size
Surface	8 5/8"	150 sx	Surface by Circulation	11"
Production	5 1/2"	200 sx	3731' to 2867' by Temp Svy 905' to 350' by Squeezing Cmt	7 7/8"



Injection Perforations 3606' to 3730'

Injection Tubing 2 3/8" Polyethylene Lined

Injection Packer Guiberson G-6 @ 3550'

Injection Formation Queen (Penrose)

Field Langlie Mattix (SR-Queen-Grayburg)

New well drilled for injection No

If new well, for what purpose was the well originally drilled Producer

Has the well ever been perforated in any other zones No

Give the depth to and name of any other overlying or underlying oil or gas zones

North Teague Ellenburger - 10,200'

North Teague Fusselman - 8850'

Lea Co. Undes Group 4A (Devonian) - 7500'

Lea County Undes. Blinbry Gas - 5600'

Jalmat Tansill-Yates-7 Rvrs - 3000'

TOC @ 2867'

Guiberson G-6
Pkr @ 3550'

Queen (Penrose) perfs
3606' to 3730'

PBTD @ 3730'

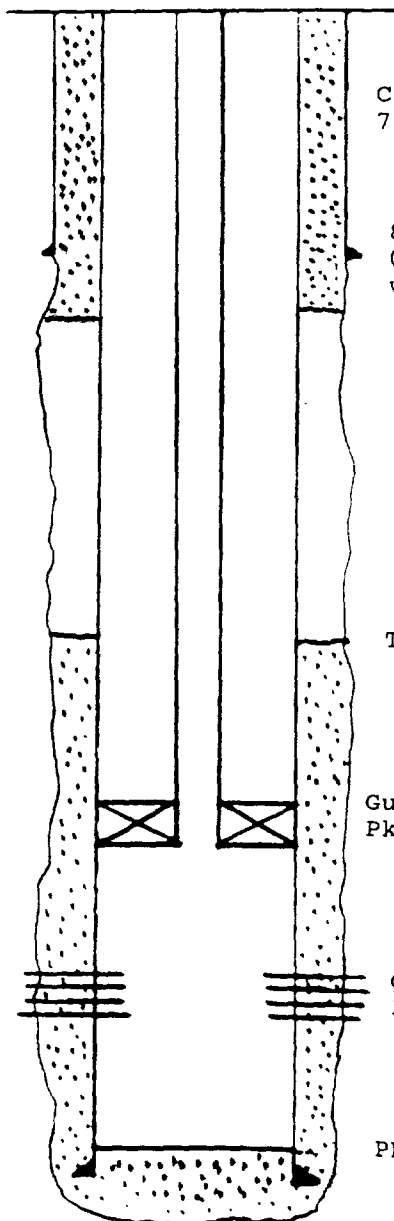
5 1/2" Casing @ 3731'
Cemented w/ 200 sx

TD @ 3731'

INJECTION WELL DATA SHEET

OXY USA Inc.
Skelly Penrose B Unit #39
660' FSL & 1980' FEL, Section 5, T-23-S, R-37-E

	Size	Cement	Top of Cement - Determined By	Hole Size
Surface	8 5/8"	250 sx	Surface by Circulation	11"
Production	5 1/2"	200 sx	3705' to 2534' by Temp Svy 780' to Surface by Circulation	7 7/8"



Injection Perforations 3554' to 3685'

Injection Tubing 2 3/8" Polyethylene Lined

Injection Packer Guiberson G-6 @ 3500'

Injection Formation Queen (Penrose)

Field Langlie Mattix (SR-Queen-Grayburg)

New well drilled for injection No

If new well, for what purpose was the well originally drilled Producer

Has the well ever been perforated in any other zones No

Give the depth to and name of any other overlying or underlying oil or gas zones
North Teague Ellenburger - 10,200'

North Teague Fusselman - 8850'

Lea Co. Undes Group 4A (Devonian) - 7500'

Lea County Undes. Blinbry Gas - 5600'

Jalmat Tansill-Yates-7 Rvrs - 3000'

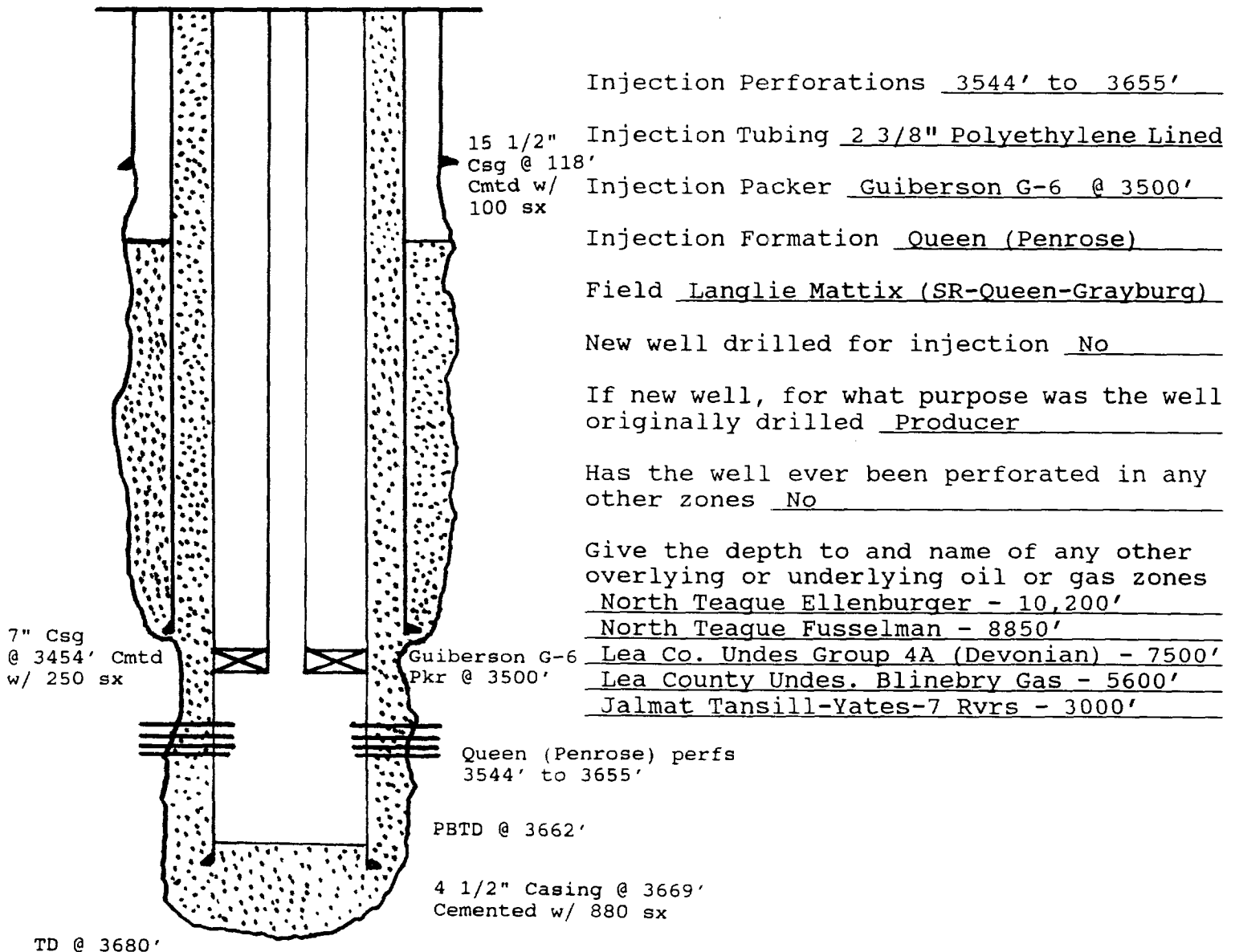
TD @ 3705'

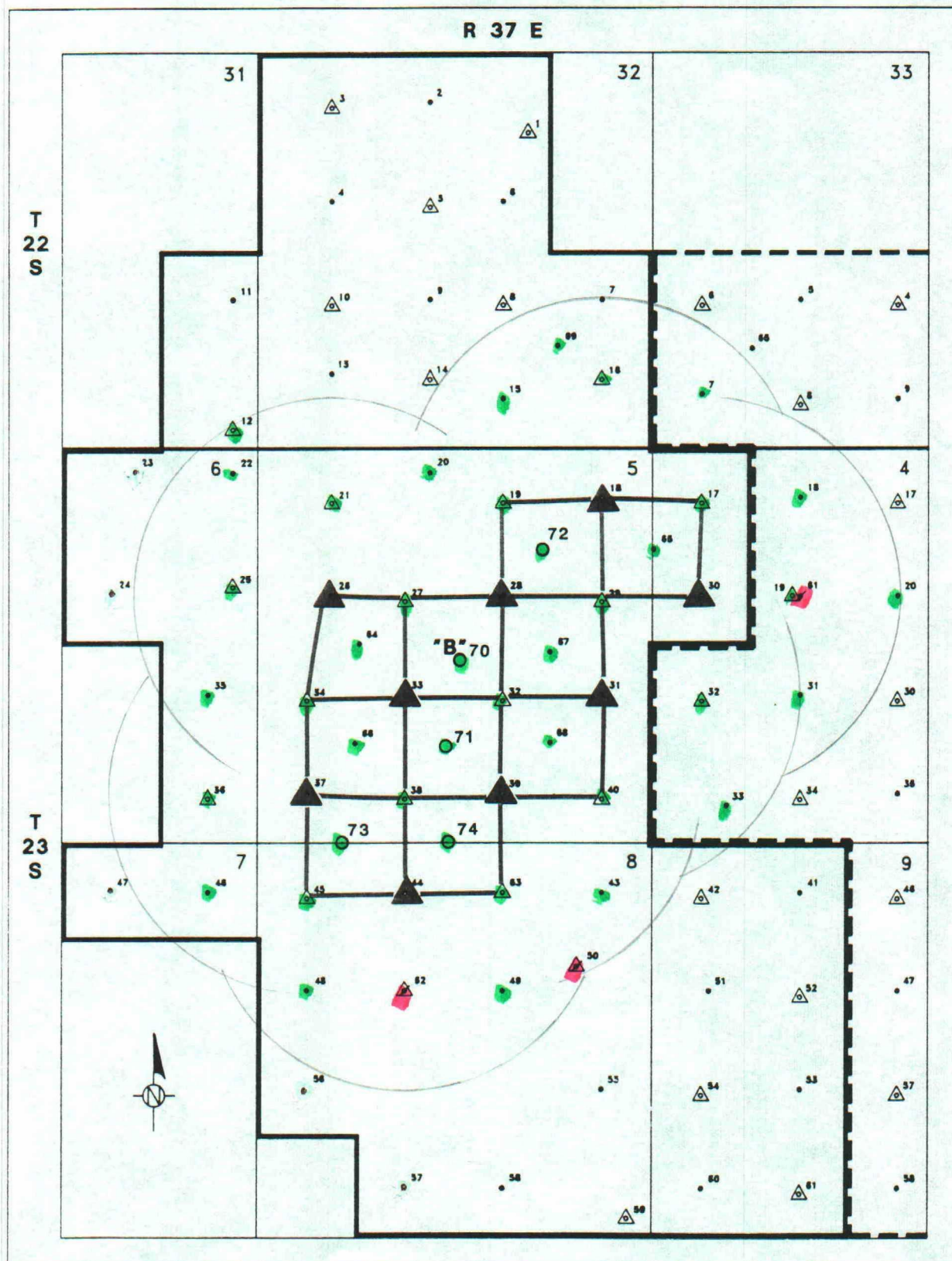
5 1/2" Casing @ 3705'
Cemented w/ 200 sx

INJECTION WELL DATA SHEET

OXY USA Inc.
 Skelly Penrose B Unit #44
 660' FNL & 1980' FWL, Section 5, T-23-S, R-37-E

	Size	Cement	Top of Cement - Determined By	Hole Size
Surface	15 1/2"	100 sx	Surface by Circulation	18"
Intermediate	7"	250 sx	765' by Calculation	8"
Production	4 1/2"	880 sx	Surface by Circulation	6 1/8"





- PRODUCER
- △ WATER INJECTOR
- ✕ PLUGGED & ABANDONED
- PENROSE UNIT "B"
- - - PENROSE UNIT "A"

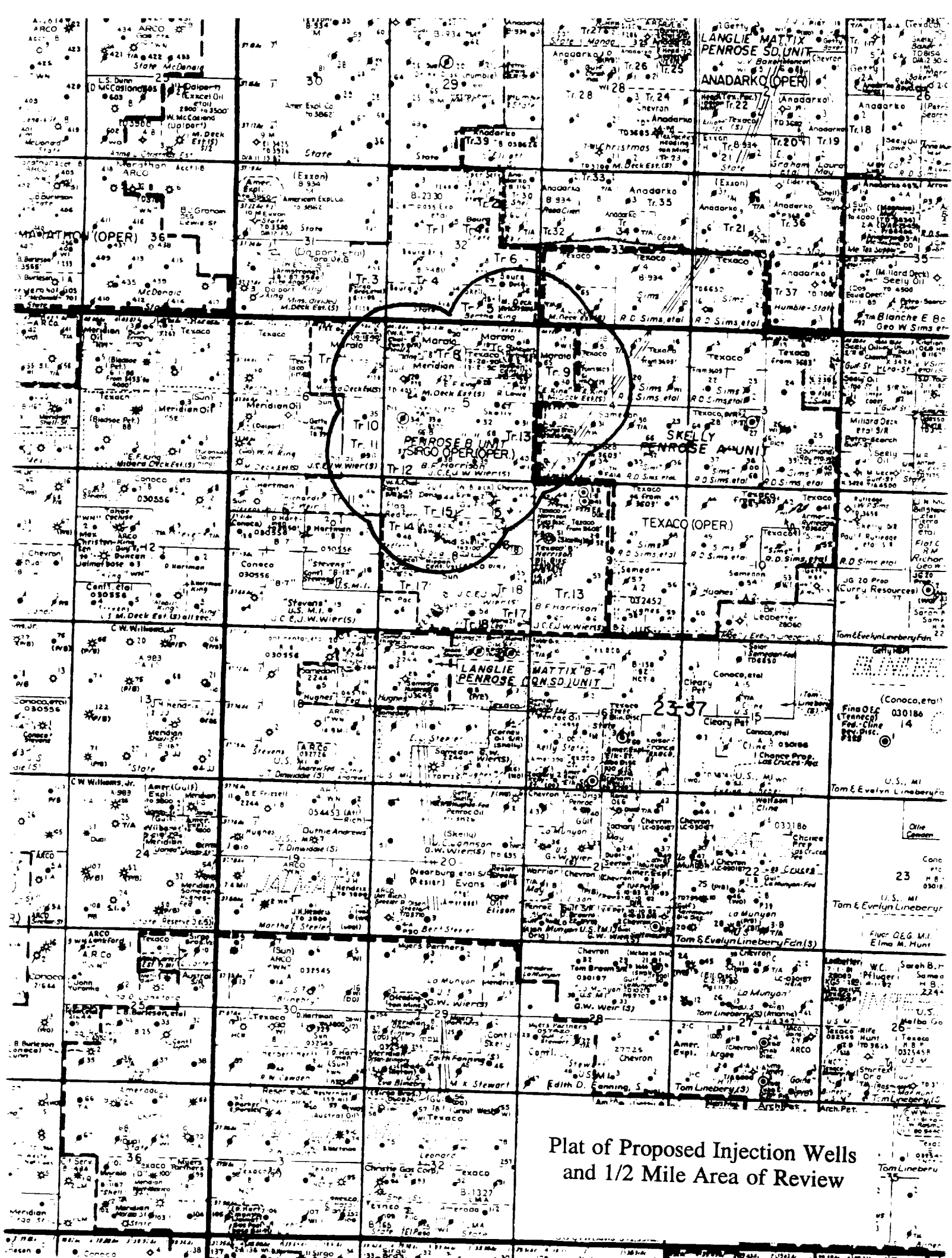
- ▲ CONVERT TO INJECTION
- NEW PRODUCER

OTY USA INC. - OPERATOR

PENROSE "B" UNIT
 Lea County, New Mexico

Scale: 1"=2000'

Revised: 2/17/93



OFFSET WELL DATA

	Skelly Penrose B Unit #12	Skelly Penrose B Unit #7	Skelly Penrose B Unit #69	Skelly Penrose B Unit #15	Skelly Penrose B Unit #16
Location	330' FSL & 330' FEL Sec 31, T22S, R37E	1980' FSL & 660' FEL Sec 32, T22S, R37E	1360' FSL & 1250' FEL Sec 32, T22S, R37E	660' FSL & 1980' FEL Sec 32, T22S, R37E	990' FSL & 660' FEL Sec 32, T22S, R37E
Operator	OXY USA Inc.	OXY USA Inc.	OXY USA Inc.	OXY USA Inc.	OXY USA Inc.
Date Drilled	September 17, 1958	September 26, 1956	July 20, 1988	March 24, 1936	January 23, 1957
Well Type	Injector	Producer	Producer	Producer	Injector
Casing	8 5/8" @ 319' Cmtd w/ 200 sx 5 1/2" @ 3798' Cmtd w/ 300 sx	8 5/8" @ 350' Cmtd w/ 200 sx 5 1/2" @ 3695' Cmtd w/ 200 sx	8 5/8" @ 430' Cmtd w/ 300 sx 5 1/2" @ 3940' Cmtd w/ 1000 sx	13" @ 261' Cmtd w/ 225 sx 7" @ 3452' Cmtd w/ 400 sx	8 5/8" @ 310' Cmtd w/ 250 sx 5 1/2" @ 3725' Cmtd w/ 200 sx
Total Depth	3798'	3690'	3940'	3680'	3725'
Completion	Penrose perfs (3677' - 3739')	Penrose perfs (3578' - 3676')	Penrose perfs (3598' - 3720')	Penrose Open Hole (3588' - 3680')	Penrose perfs (3610' - 3658')

	Skelly Penrose A Unit #7	Skelly Penrose A Unit #18	Skelly Penrose B Unit #17	Skelly Penrose B Unit #65	Skelly Penrose B Unit #30
Location	720' FSL & 660' FWL Sec 33, T22S, R37E	660' FNL & 1980' FWL Sec 4, T23S, R37E	660' FNL & 660' FWL Sec 4, T23S, R37E	1357' FNL & 15' FWL Sec 4, T23S, R37E	1980' FNL & 660' FWL Sec 5, T23S, R37E
Operator	Texaco	Texaco	OXY USA Inc.	OXY USA Inc.	OXY USA Inc.
Date Drilled	October 25, 1942	August 29, 1940	May 26, 1957	March 27, 1988	January 20, 1949
Well Type	Producer	Producer (P&A)	Injector	Producer	Producer
Casing	16" @ 127' Cmtd w/ 100 sx 7" @ 3411' Cmtd w/ 250 sx	16" @ 120' Cmtd w/ 100 sx 7" @ 3397' Cmtd w/ 250 sx	8 5/8" @ 328' Cmtd w/ 250 sx 5 1/2" @ 3720' Cmtd w/ 800 sx	8 5/8" @ 421' Cmtd w/ 250 sx 5 1/2" @ 3944' Cmtd w/ 1375 sx	10 3/4" @ 385' Cmtd w/ 150 sx 5 1/2" @ 3505' Cmtd w/ 150 sx
Total Depth	3716'	3706'	3720'	3944'	3687'
Completion	Penrose Open Hole (3411' - 3716')	Penrose Open Hole (3397' - 3706')	Penrose perfs (3562' - 3629')	Penrose perfs (3569' - 3712')	Penrose Open Hole (3505' - 3666')

OFFSET WELL DATA

	Skelly Penrose A Unit #61	Skelly Penrose A Unit #19	Skelly Penrose A Unit #20	Skelly Penrose A Unit #31	Skelly Penrose A Unit #32
Location	1900' FNL & 1870' FWL Sec 4, T23S, R37E	1980' FNL & 1980' FWL Sec 4, T23S, R37E	1980' FNL & 1980' FEL Sec 4, T23S, R37E	1980' FSL & 660' FWL Sec 4, T23S, R37E	1980' FSL & 660' FWL Sec 4, T23S, R37E
Operator	Texaco	Texaco	Texaco	Texaco	Texaco
Date Drilled	April 7, 1969	April 1936	February 9, 1936	October 15, 1936	April 3, 1958
Well Type	Injector	Injector (P&A)	Producer	Producer	Injector
Casing	8 5/8" @ 309'	13" @ 270'	13" @ 252'	8 1/4" @ 1152'	8 5/8" @ 254'
	Cmtd w/ 150 sx	Cmtd w/ 200 sx	Cmtd w/ 200 sx	Cmtd w/ 500 sx	Cmtd w/ 300 sx
	4 1/2" @ 3698'	7" @ 3350'	7" @ 3392'	7" @ 3380'	5 1/2" @ 3684'
Total Depth	Cmtd w/ 900 sx	Cmtd w/ 600 sx	Cmtd w/ 200 sx	Cmtd w/ 300 sx	Cmtd w/ 375 sx
	3700'	3683'	3687'	3638'	3684'
Completion	Penrose perms (3547' - 3605')	Penrose Open Hole (3350' - 3683')	Penrose Open Hole (3392' - 3687')	Penrose Open Hole (3380' - 3638')	Penrose perms (3560' - 3643')

	Skelly Penrose A Unit #33	Skelly Penrose B Unit #18	Skelly Penrose B Unit #19	Skelly Penrose B Unit #20	Skelly Penrose B Unit #21
Location	500' FSL & 990' FWL Sec 4, T23S, R37E	660' FNL & 660' FEL Sec 5, T23S, R37E	660' FNL & 1980' FEL Sec 5, T23S, R37E	330' FNL & 2310' FWL Sec 5, T23S, R37E	660' FNL & 990' FWL Sec 5, T23S, R37E
Operator	Texaco	OXY USA Inc.	OXY USA Inc.	OXY USA Inc.	OXY USA Inc.
Date Drilled	February 23, 1958	April 28, 1957	June 21, 1957	October 10, 1957	January 18, 1958
Well Type	Producer	Producer	Injector	Producer	Injector
Casing	8 5/8" @ 370'	8 5/8" @ 330'	8 5/8" @ 330'	8 5/8" @ 343'	8 5/8" @ 350'
	Cmtd w/ 225 sx	Cmtd w/ 200 sx	Cmtd w/ 280 sx	Cmtd w/ 200 sx	Cmtd w/ 200 sx
	5 1/2" @ 3650'	5 1/2" @ 3770'	5 1/2" @ 3750'	5 1/2" @ 3780'	5 1/2" @ 3780'
Total Depth	Cmtd w/ 200 sx	Cmtd w/ 850 sx	Cmtd w/ 950 sx	Cmtd w/ 1200 sx	Cmtd w/ 800 sx
	3650'	3770'	3750'	3780'	3780'
Completion	Penrose perms (3526' - 3636')	Penrose perms (3614' - 3744')	Penrose perms (3645' - 3707')	Penrose perms (3656' - 3779')	Penrose perms (3643' - 3707')

OFFSET WELL DATA

	Skelly Penrose B Unit #26	Fred C. King #1	Skelly Penrose B Unit #27	Skelly Penrose B Unit #64	Skelly Penrose B Unit #28
Location	1980' FNL & 990' FWL Sec 5, T23S, R37E	1980' FNL & 660' FWL Sec 5, T23S, R37E	1980' FNL & 1980' FWL Sec 5, T23S, R37E	2617' FNL & 1366' FWL Sec 5, T23S, R37E	1980' FSL & 660' FWL Sec 5, T23S, R37E
Operator	OXY USA Inc.	Gulf	OXY USA Inc.	OXY USA Inc.	OXY USA Inc.
Date Drilled	February 12, 1958	September 19, 1936	September 8, 1957	March 19, 1988	June 25, 1957
Well Type	Producer	Dry Hole (P&A)	Injector	Producer	Producer
Casing	8 5/8" @ 354'	10 3/4" @ 298'	8 5/8" @ 345'	8 5/8" @ 410'	8 5/8" @ 335'
	Cmtd w/ 275 sx	Cmtd w/ 250 sx	Cmtd w/ 200 sx	Cmtd w/ 200 sx	Cmtd w/ 200 sx
	5 1/2" @ 3780'	7 5/8" @ 3639'	5 1/2" @ 3769'	5 1/2" @ 3905'	5 1/2" @ 3750'
	Cmtd w/ 1200 sx	Cmtd w/ 650 sx	Cmtd w/ 1200 sx	Cmtd w/ 1000 sx	Cmtd w/ 1100 sx
Total Depth	3780'	4051'	3770'	3905'	3684'
Completion	Penrose perms (3659' – 3768')	Grayburg/Penrose OH (3639' – 4051')	Penrose perms (3660' – 3705')	Penrose perms (3648' – 3790')	Penrose perms (3628' – 3724')

	Skelly Penrose B Unit #29	Skelly Penrose B Unit #31	Skelly Penrose B Unit #67	Skelly Penrose B Unit #68	Skelly Penrose B Unit #33
Location	2112' FNL & 660' FEL Sec 5, T23S, R37E	1980' FSL & 660' FEL Sec 5, T23S, R37E	2555' FSL & 1350' FEL Sec 5, T23S, R37E	1340' FSL & 1350' FEL Sec 5, T23S, R37E	1980' FSL & 1980' FWL Sec 5, T23S, R37E
Operator	OXY USA Inc.	OXY USA Inc.	OXY USA Inc.	OXY USA Inc.	OXY USA Inc.
Date Drilled	June 5, 1957	September 13, 1957	June 10, 1988	June 20, 1988	December 23, 1957
Well Type	Injector	Producer	Producer	Producer	Producer
Casing	10 3/4" @ 325'	8 5/8" @ 370'	8 5/8" @ 420'	8 5/8" @ 427'	8 5/8" @ 370'
	Cmtd w/ 150 sx	Cmtd w/ 250 sx	Cmtd w/ 350 sx	Cmtd w/ 350 sx	Cmtd w/ 175 sx
	5 1/2" @ 3805'	5 1/2" @ 3710'	5 1/2" @ 3870'	5 1/2" @ 3920'	5 1/2" @ 3724'
	Cmtd w/ 900 sx	Cmtd w/ 200 sx	Cmtd w/ 3700 sx	Cmtd w/ 875 sx	Cmtd w/ 200 sx
Total Depth	3805'	3710'	3870'	3920'	3724'
Completion	Penrose perms (3590' – 3720')	Penrose perms (3580' – 3698')	Penrose perms (3599' – 3721')	Penrose perms (3570' – 3686')	Penrose perms (3610' – 3719')

OFFSET WELL DATA

	Skelly Penrose B Unit #32	Skelly Penrose B Unit #34	Skelly Penrose B Unit #66	Skelly Penrose B Unit #37	Skelly Penrose B Unit #38
Location	1980' FSL & 1980' FEL Sec 5, T23S, R37E	1980' FSL & 660' FWL Sec 5, T23S, R37E	1330' FSL & 1307' FWL Sec 5, T23S, R37E	660' FSL & 660' FWL Sec 5, T23S, R37E	660' FSL & 1980' FWL Sec 5, T23S, R37E
Operator	OXY USA Inc.	OXY USA Inc.	OXY USA Inc.	OXY USA Inc.	OXY USA Inc.
Date Drilled	October 15, 1957	December 2, 1935	March 7, 1988	February 22, 1958	January 4, 1958
Well Type	Injector	Injector	Producer	Producer	Injector
Casing	8 5/8" @ 360'	13" @ 254'	8 5/8" @ 432'	8 5/8" @ 370'	8 5/8" @ 370'
	Cmtd w/ 250 sx	Cmtd w/ 150 sx	Cmtd w/ 250 sx	Cmtd w/ 150 sx	Cmtd w/ 150 sx
	5 1/2" @ 3710'	8 1/4" @ 2715'	5 1/2" @ 3964'	5 1/2" @ 3731'	5 1/2" @ 3720'
	Cmtd w/ 200 sx	Cmtd w/ 150 sx	Cmtd w/ 1045 sx	Cmtd w/ 200 sx	Cmtd w/ 200 sx
Casing	4 1/2" Liner (3278' - 3798')	4 1/2" @ 3850'			
	Cmtd w/ 25 sx	Cmtd w/ 250 sx			
Total Depth	3800'	3850'	3972'	3731'	3720'
Completion	Penrose perfs (3592' - 3711')	Penrose perfs (3642' - 3773')	Penrose perfs (3612' - 3740')	Penrose perfs (3606' - 3730')	Penrose perfs (3577' - 3710')

	Skelly Penrose B Unit #39	Skelly Penrose B Unit #40	Skelly Penrose B Unit #22	Skelly Penrose B Unit #25	Skelly Penrose B Unit #35
Location	660' FSL & 1980' FEL Sec 5, T23S, R37E	1980' FSL & 660' FWL Sec 5, T23S, R37E	330' FNL & 330' FEL Sec 6, T23S, R37E	1788' FNL & 330' FEL Sec 6, T23S, R37E	1980' FSL & 660' FWL Sec 6, T23S, R37E
Operator	OXY USA Inc.	OXY USA Inc.	OXY USA Inc.	OXY USA Inc.	OXY USA Inc.
Date Drilled	December 4, 1957	November 13, 1957	April 29, 1958	August 25, 1958	May 25, 1936
Well Type	Producer	Injector	Producer	Injector	Producer
Casing	8 5/8" @ 373'	8 5/8" @ 374'	8 5/8" @ 346'	8 5/8" @ 351'	10 3/4" @ 371'
	Cmtd w/ 200 sx	Cmtd w/ 200 sx	Cmtd w/ 200 sx	Cmtd w/ 250 sx	Cmtd w/ 125 sx
	5 1/2" @ 3705'	5 1/2" @ 3680'	5 1/2" @ 3795'	5 1/2" @ 3800'	5 1/2" @ 3565'
	Cmtd w/ 200 sx	Cmtd w/ 200 sx	Cmtd w/ 1000 sx	Cmtd w/ 1200 sx	Cmtd w/ 600 sx
Total Depth	3705'	3680'	3795'	3800'	3798'
Completion	Penrose perfs (3554' - 3685')	Penrose perfs (3524' - 3644')	Penrose perfs (3670' - 3786')	Penrose perfs (3677' - 3752')	Penrose Open Hole (3565' - 3798')

OFFSET WELL DATA

	Skelly Penrose B Unit #24	Skelly Penrose B Unit #36	Skelly Penrose B Unit #46	Skelly Penrose B Unit #43	Skelly Penrose B Unit #63
Location	2117' FNL & 1966' FEL Sec 6, T23S, R37E	660' FSL & 660' FEL Sec 6, T23S, R37E	660' FNL & 660' FEL Sec 7, T23S, R37E	660' FNL & 660' FEL Sec 8, T23S, R37E	660' FNL & 1980' FEL Sec 8, T23S, R37E
Operator	OXY USA Inc.	OXY USA Inc.	OXY USA Inc.	OXY USA Inc.	OXY USA Inc.
Date Drilled	October 13, 1958	January 15, 1959	December 3, 1958	July 12, 1937	November 30, 1957
Well Type	Producer	Injector	Producer	Producer	Injector
Casing	10 3/4" @ 309'	8 5/8" @ 382'	8 5/8" @ 364'	8 5/8" @ 1343'	8 5/8" @ 385'
	Cmtd w/ 200 sx	Cmtd w/ 250 sx	Cmtd w/ 250 sx	Cmtd w/ 49 sx	Cmtd w/ 325 sx
	7" @ 2860'	5 1/2" @ 3780'	5 1/2" @ 3770'	7" @ 3402'	5 1/2" @ 3732'
	Cmtd w/ 400 sx	Cmtd w/ 1000 sx	Cmtd w/ 1000 sx	Cmtd w/ 125 sx	Cmtd w/ 1400 sx
	5 1/2" @ 3815'			4 1/2" @ 3660'	4 1/2" @ 3730'
Total Depth	Cmtd w/ 225 sx			Cmtd w/ 530 sx	Cmtd w/ 200 sx
	3815'	3780'	3770'	3712'	3732'
Completion	Penrose perfs (3700' – 3804')	Penrose perfs (3636' – 3699')	Penrose perfs (3606' – 3736')	Penrose perfs (3469' – 3614')	Penrose perfs (3507' – 3662')

	Skelly Penrose B Unit #44	Skelly Penrose B Unit #45	Skelly Penrose B Unit #48	Skelly Penrose B Unit #62	Skelly Penrose B Unit #49
Location	660' FNL & 1980' FWL Sec 8, T23S, R37E	660' FNL & 660' FWL Sec 8, T23S, R37E	1980' FNL & 660' FWL Sec 8, T23S, R37E	1980' FNL & 1980' FWL Sec 8, T23S, R37E	1980' FNL & 1980' FEL Sec 8, T23S, R37E
Operator	OXY USA Inc.	OXY USA Inc.	OXY USA Inc.	OXY USA Inc.	OXY USA Inc.
Date Drilled	March 4, 1940	August 18, 1957	September 18, 1957	May 9, 1961	October 29, 1956
Well Type	Producer	Injector	Producer	Injector (P&A)	Producer
Casing	15 1/2" @ 118'	8 5/8" @ 364'	8 5/8" @ 381'	8 5/8" @ 360'	8 5/8" @ 226'
	Cmtd w/ 100 sx	Cmtd w/ 250 sx	Cmtd w/ 300 sx	Cmtd w/ 300 sx	Cmtd w/ 150 sx
	7" @ 3454'	5 1/2" @ 3750'	5 1/2" @ 3740'	5 1/2" @ 3725'	5 1/2" @ 3690'
	Cmtd w/ 250 sx	Cmtd w/ 1000 sx	Cmtd w/ 1300 sx	Cmtd w/ 1400 sx	Cmtd w/ 200 sx
	4 1/2# @ 3669'			3 1/2" @ 3552'	
Total Depth	Cmtd w/ 880 sx			Cmtd w/ 200 sx	
	3680'	3750'	3740'	3725'	3690'
Completion	Penrose perfs (3544' – 3655')	Penrose perfs (3594' – 3725')	Penrose perfs (3560' – 3684')	Penrose perfs (3596' – 3680')	Penrose perfs (3552' – 3604')

OFFSET WELL DATA

	Skelly Penrose B Unit #50
Location	1650' FNL & 990' FEL Sec 8, T23S, R37E
Operator	OXY USA Inc.
Date Drilled	August 20, 1956
Well Type	Injector (P&A)
Casing	8 5/8" @ 250'
	Cmtd w/ 125 sx
	5 1/2" @ 3700'
	Cmtd w/ 300 sx
Total Depth	3700'
Completion	Penrose perms (3542' – 3648')

PENROSE B UNIT #62
1980' FNL & 1980' FWL SEC 8 T23S R37E
LEA COUNTY, NEW MEXICO

ELEVATION: KB: 3330'
GL: N.A.

WELL COMPLETED : MAY 9, 1961

WELL PLUGGED: MAY 9, 1961

WELL RE-ENTERED: JULY 10, 1967

WELL RE-PLUGGED: APRIL 25, 1975

40 SX CMT PLUG (1100' - 0')

8 5/8" SURFACE CASING @ 360'
CMTD W/ 300 SX CMT CIRC

PERF 3 1/2" CS6 @ 1100'
SQUEEZED W/ 225 SX

TOP OF 5 1/2" CS6 STUB @ 1526'

	SURFACE	PRODUCTION	PRODUCTION
SIZE	8 5/8"	5 1/2"	3 1/2"
WEIGHT	32 #	15.5 #	9.3 #
GRADE	J-55	J-55	J-55
THREAD	ST&C	ST&C	8 RD
DEPTH	360'	3725'	3552'

10 SX CMT PLUG (3400' - 3500')
CIBP @ 3500'

3 1/2" CS6 @ 3552' CMTD W/ 200 SX

PENROSE PERFS (3596' - 3680')

PREPRD BY: SCOTT E. GENGLER
DATE : May 7, 1993

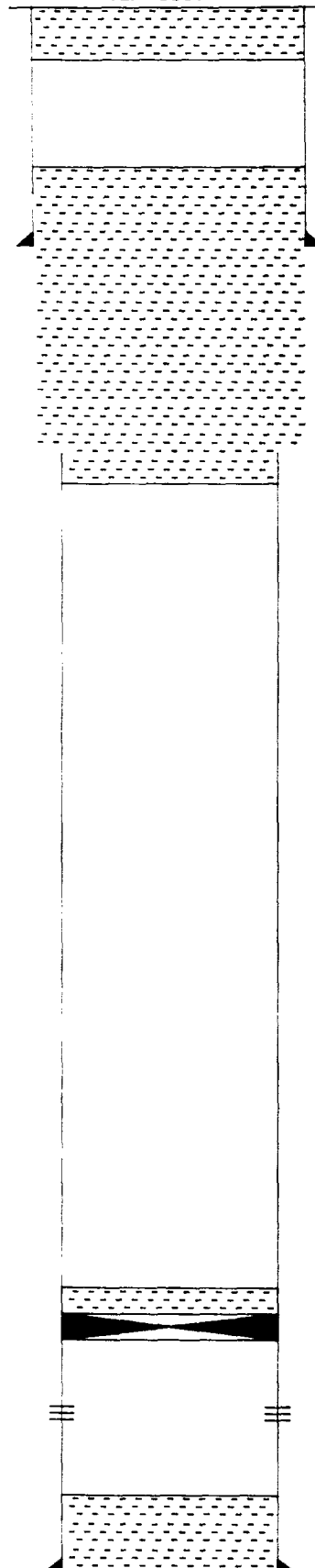
PBTD @ 3618'
5 1/2" CS6 @ 3725' CMTD W/ 1400 SX
TD @ 3725'

PENROSE B UNIT #50
 1650' FNL & 990' FEL SEC 8 T23S R37E
 LEA COUNTY, NEW MEXICO

ELEVATION: KB: 3320'
 GL: 3310'

WELL COMPLETED : AUGUST 20, 1956

WELL PLUGGED: MAY 4, 1975



2 SX CMT PLUG (60' - 0')

8 5/8" SURFACE CASING @ 250'
 CMTD W/ 125 SX CMT CIRC

185 SX CMT PLUG (1480' - 220')

TOP OF 5 1/2" CSG STUB @ 1474'

12 SX CMT PLUG (3358' - 3458')
 CIBP @ 3458'

PENROSE PERFS (3542' - 3648')

PBTD @ 3695'
 5 1/2" CSG @ 3700' CMTD W/ 300 SX
 TD @ 3770'

	SURFACE	PRODUCTION
SIZE	8 5/8"	5 1/2"
WEIGHT	32 #	14 #
GRADE	J-55	J-55
THREAD	ST&C	ST&C
DEPTH	250'	3700'

PREPRD BY: SCOTT E. GENGLER
 DATE : May 6, 1993

TEXACO - PENROSE A UNIT #19
1980' FNL & 1980' FNL SEC 4 T23S R37E
LEA COUNTY, NEW MEXICO

ELEVATION: KB: N.A.
GL: N.A.

WELL PLUGGED: MAY 24, 1968

10 SX CMT PLUG (50' - 0')

13" SURFACE CASING @ 270'
CMTD W/ 200 SX CMT CIRC

30 SX CMT PLUG (1220' - 1070')

CEMENT INSIDE AND OUTSIDE 7" CS6
W/ 450 SX CMT (2144' - 2513')

PARTED 7" CASING (2280' - 2300')

PERFORATED 7" CS6 (2455' - 2465')
PERFORATED 7" CS6 (2493' - 2503')

7" CS6 @ 3350' CMTD W/ 600 SX

PENROSE OPEN HOLE (3350' - 3683')

TD @ 3683'

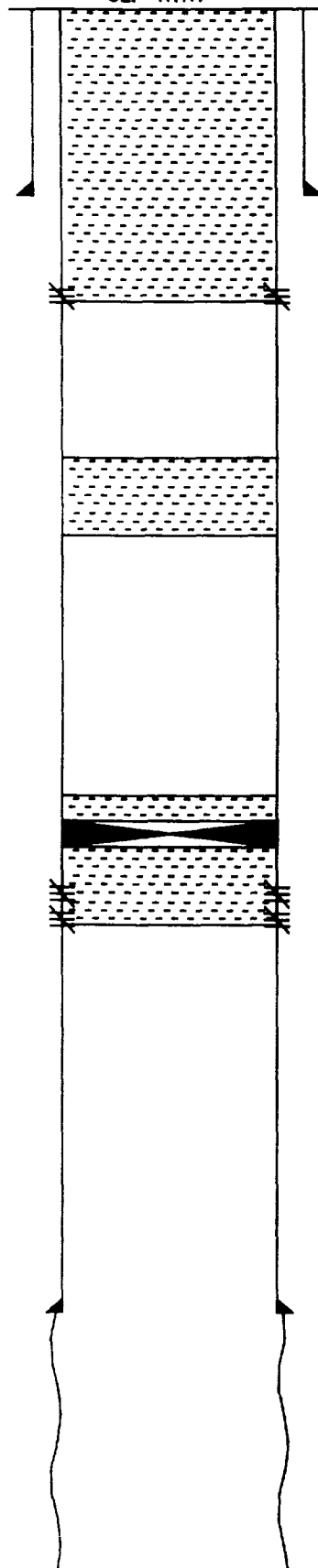
	SURFACE	PRODUCTION
SIZE	13 "	7 "
WEIGHT	45 #	24 #
GRADE	N.A.	N.A.
THREAD	N.A.	N.A.
DEPTH	270'	3350'

PREPRD BY: SCOTT E. GENGLER
DATE : May 7, 1993

TEXACO - PENROSE A UNIT #18
660' FNL & 1980' FWL SEC 4 T23S R37E
LEA COUNTY, NEW MEXICO

ELEVATION: KB: N.A.
GL: N.A.

WELL PLUGGED: OCTOBER 14, 1992



16" SURFACE CASING @ 120'
CMTD W/ 100 SX CMT CIRC

PERFORATE 7" CSG @ 200', TIED ONTO
CSG AND PMPD 150 SX CMT. CIRC CMT.

25 SX CMT PLUG (1300' - 1158')

6 SX CMT PLUG (2390' - 2354')
CEMENT RETAINER @ 2392'

PARTED 7" CASING (2440' - 2557')
SQUEEZED W/ 500 SX

7" CSG @ 3397' CMTD W/ 250 SX

PENROSE OPEN HOLE (3397' - 3706')

TD @ 3706'

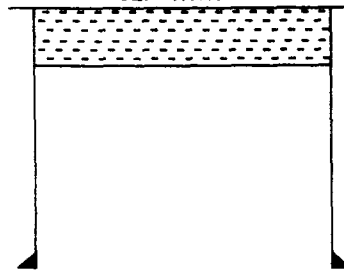
	SURFACE	PRODUCTION
SIZE	16 "	7 "
WEIGHT	70 #	15 #
GRADE	N.A.	N.A.
THREAD	N.A.	N.A.
DEPTH	120'	3397'

PREPRD BY: SCOTT E. GENGLER
DATE : May 7, 1993

GULF - FRED C. KING #1
1980' FNL & 660' FWL SEC 5 T23S R37E
LEA COUNTY, NEW MEXICO

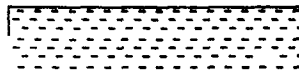
ELEVATION: KB: N.A.
GL: N.A.

WELL PLUGGED: SEPTEMBER 21, 1936



35 SX CMT PLUG (15' - 0')

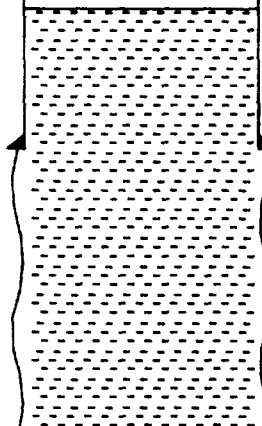
10 3/4" SURFACE CASING @ 298'
CMTD W/ 250 SX CMT CIRC



CMT PLUG @ 1500' (AMOUNT OF CMT UNKNOWN)

TOP OF 7 5/8" CS6 STUB @ 1500'

	SURFACE	PRODUCTION
SIZE	10 3/4"	7 5/8"
WEIGHT	32 #	26 #
GRADE	N.A.	N.A.
THREAD	N.A.	N.A.
DEPTH	298'	3639'



7 5/8" CS6 @ 3639' CMTD W/ 650 SX

160 SX CMT PLUG (4051' - 3560')

TD @ 4051'

PREPRD BY: SCOTT E. GENGLER
DATE : May 7, 1993

VII.

1. Average Daily Injection Rate - 300 BWPD per well
Maximum Daily Injection Rate - 500 BWPD per well
2. The proposed system is a closed system.
3. Average Injection Pressure - 1200 psi
Maximum Injection Pressure - 1800 psi
4. Sources of water:
 - a. Produced water from the Skelly Penrose B Unit.
 - b. Produced water from Texaco's King C Lease.
 - c. Supply water from Texaco's Jal Water System.
5. Injection is not for disposal purposes.

VIII. Previously Submitted

- IX. Each of the proposed injection wells will be acidized with 3000 gals of acid.
- X. Previously Submitted
- XI. Previously Submitted
- XII. Not Applicable

TRETOLITE

PETROLITE

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Hobbs, New Mexico 88241
505 392-6711 Phone
505 392-3759 Fax

WATER ANALYSIS REPORT

Company : OXY USA
Address : HOBBS, NEW MEXICO
Lease : PENROSE B
Well :
Sample Pt. : PUMP SUCTION

Date : 3-29-93
Date Sampled : 3-26-93
Analysis No. : 418

ANALYSIS		mg/L		* meq/L
-----		----		-----
1. pH	6.6			
2. H2S	125 PPM			
3. Specific Gravity	1.025			
4. Total Dissolved Solids		42369.2		
5. Suspended Solids		86 mg/L		
6. Dissolved Oxygen		0.4 PPM		
7. Dissolved CO2		100 PPM		
8. Oil In Water		20 PPM		
9. Phenolphthalein Alkalinity (CaCO3)				
10. Methyl Orange Alkalinity (CaCO3)				
11. Bicarbonate	HCO3	1159.0	HCO3	19.0
12. Chloride	Cl	22724.3	Cl	641.0
13. Sulfate	SO4	3250.0	SO4	67.7
14. Calcium	Ca	1659.3	Ca	82.8
15. Magnesium	Mg	1414.9	Mg	116.4
16. Sodium (calculated)	Na	12150.2	Na	528.5
17. Iron	Fe	2.2		
18. Barium	Ba	0.1		
19. Strontium	Sr	9.2		
20. Total Hardness (CaCO3)		9969.0		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter		Compound	Equiv wt	X meq/L	= mg/L
-----		-----	-----	-----	-----
83	*Ca <----- *HCO3	Ca(HCO3)2	81.0	19.0	1540
-----	/----->	CaSO4	68.1	63.8	4342
116	*Mg -----> *SO4	CaCl2	55.5		
-----	<-----/	Mg(HCO3)2	73.2		
529	*Na -----> *Cl	MgSO4	60.2	3.9	233
-----		MgCl2	47.6	112.5	5357
Saturation Values Dist. Water 20 C		NaHCO3	84.0		
CaCO3	13 mg/L	Na2SO4	71.0		
CaSO4 * 2H2O	2090 mg/L	NaCl	58.4	528.5	30886
BaSO4	2.4 mg/L				

REMARKS: WAYNE DICKERSON / FILE

Petrolite Oilfield Chemicals Group

Respectfully submitted,
ROZANNE JOHNSON

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Hoop's, New Mexico 88241
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505 392-3759 Fax

WATER ANALYSIS REPORT

Company : OXY USA
Address : HOBBS, NEW MEXICO
Lease : PENROSE B
Well : TEXACO JAL WTR SPPLY
Sample Pt. : INLET LINE

Date : 3-29-93
Date Sampled : 3-26-93
Analysis No. : 422

ANALYSIS	mg/L	* meq/L
1. pH	6.8	
2. H2S	170 PPM	
3. Specific Gravity	1.010	
4. Total Dissolved Solids	10846.8	
5. Suspended Solids	12 mg/L	
6. Dissolved Oxygen	0.8 PPM	
7. Dissolved CO2	320 PPM	
8. Oil In Water	NR	
9. Phenolphthalein Alkalinity (CaCO3)		
10. Methyl Orange Alkalinity (CaCO3)		
11. Bicarbonate	HCO3 1207.8	HCO3 19.8
12. Chloride	Cl 5187.6	Cl 146.3
13. Sulfate	SO4 1200.0	SO4 25.0
14. Calcium	Ca 1450.9	Ca 72.4
15. Magnesium	Mg 1059.9	Mg 87.2
16. Sodium (calculated)	Na 724.7	Na 31.5
17. Iron	Fe 1.0	
18. Barium	Ba 0.1	
19. Strontium	Sr 14.8	
20. Total Hardness (CaCO3)	7987.2	

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter	Compound	Equiv wt	X meq/L	= mg/L
72 *Ca <----- *HCO3	Ca (HCO3) 2	81.0	19.8	1605
----- /----->	CaSO4	68.1	25.0	1701
87 *Mg -----> *SO4	CaCl2	55.5	27.6	1532
----- <----- /	Mg (HCO3) 2	73.2		
32 *Na -----> *Cl	MgSO4	60.2		
	MgCl2	47.6	87.2	4151
Saturation Values Dist. Water 20 C	NaHCO3	84.0		
CaCO3 13 mg/L	Na2SO4	71.0		
CaSO4 * 2H2O 2090 mg/L	NaCl	58.4	31.5	1842
BaSO4 2.4 mg/L				

REMARKS: WAYNE DICKERSON / FILE

Petrolite Oilfield Chemicals Group

Respectfully submitted,
ROZANNE JOHNSON

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505 392-3759 Fax

WATER ANALYSIS REPORT

Company : TEXACO
Address : HOBBS, NEW MEXICO
Lease : TEXACO KING C
Well :
Sample Pt. : WATER TANK

Date : 3-29-93
Date Sampled : 3-26-93
Analysis No. : 421

ANALYSIS		mg/L	* meq/L	
-----		----	-----	
1.	pH	6.9		
2.	H2S	185 PPM		
3.	Specific Gravity	1.035		
4.	Total Dissolved Solids	57683.0		
5.	Suspended Solids	59 mg/L		
6.	Dissolved Oxygen	0.4 PPM		
7.	Dissolved CO2	10 PPM		
8.	Oil In Water	80 PPM		
9.	Phenolphthalein Alkalinity (CaCO3)			
10.	Methyl Orange Alkalinity (CaCO3)			
11.	Bicarbonate	HCO3 2379.0	HCO3	39.0
12.	Chloride	Cl 32915.9	Cl	928.5
13.	Sulfate	SO4 1350.0	SO4	28.1
14.	Calcium	Ca 4497.0	Ca	224.4
15.	Magnesium	Mg 1356.5	Mg	111.6
16.	Sodium (calculated)	Na 15164.7	Na	659.6
17.	Iron	Fe 6.0		
18.	Barium	Ba 0.3		
19.	Strontium	Sr 13.6		
20.	Total Hardness (CaCO3)	16815.1		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter				Compound	Equiv wt	X meq/L	=	mg/L
+-----+				-----				
224	*Ca <-----	*HCO3	39	Ca (HCO3) 2	81.0	39.0		3160
-----	/----->		-----	CaSO4	68.1	28.1		1913
112	*Mg ----->	*SO4	28	CaCl2	55.5	157.3		8728
-----	<----->	/	-----	Mg (HCO3) 2	73.2			
660	*Na ----->	*Cl	929	MgSO4	60.2			
+-----+			+-----+	MgCl2	47.6	111.6		5313
Saturation Values Dist. Water 20 C				NaHCO3	84.0			
CaCO3 13 mg/L				Na2SO4	71.0			
CaSO4 * 2H2O 2090 mg/L				NaCl	58.4	659.6		38548
BaSO4 2.4 mg/L								

REMARKS: WAYNE DICKERSON / FILE

Petrolite Oilfield Chemicals Group

Respectfully submitted,
ROZANNE JOHNSON

Legal Notice

OXY USA Inc., P.O. Box 50250, Midland TX, 79710, (915) 685-5825, Scott Gengler - Engineer, proposes to inject water for secondary recovery purposes into the Skelly Penrose B Unit Well Nos: 18,26, 28,30,31,33,37,39,44 located in sections 4,5, and 8, T-23-S, R-37-E, Lea County, New Mexico. Water will be injected into the Queen formation at an average depth of 3650' at a rate of 300 BWPD per well and a maximum pressure of 1800#. Interested parties must file objections or requests for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, NM, 87501 within 15 days.



OIL CONSERVATION DIVISION
RECEIVED

OXY USA INC.

Box 50250, Midland, TX 79710

'93 JUN 7 AM 9 48

June 4, 1993

State of New Mexico
Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87504

Attention: Mr. David Catanach

**Re: Application of OXY USA Inc. for Expansion of Authorization to
Inject (C-108) for the Skelly Penrose "B" Unit, Queen
Formation, Langlie-Mattix Pool, Lea County, New Mexico**

Dear Dave:

Please find enclosed the "Proof of Notice" as called for in item XIV of the C-108 for the Skelly Penrose "B" Unit. If you have any questions relating to this application please call me at 915/685-5913 or Scott Gengler at 915/685-5825. Thank you for considering our application. See you in July.

Sincerely,

Richard E. Foppiano
Regulatory Affairs Advisor
Western Region - Midland

REF/ref

XC: Tom Kellahin

AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea.

I, Kathi Bearden

General Manager

of the Hobbs Daily News-Sun, a
daily 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 _____

One _____ weeks.

Beginning with the issue dated

May 17, 19 93

and ending with the issue dated

May 17, 19 93

Kathi Bearden
General Manager

Sworn and subscribed to before

me this 17 day of

May, 19 93

Charlene Reven

Notary Public.

My Commission expires

March 15, 1997

(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.

RECEIVED

MAY 19 1993

FIN & ADM

LEGAL NOTICE

May 17, 1993

OXY USA Inc., P.O. Box
50250, Midland TX, 79710,
(915) 685-5825, Scott Gen-
gler - Engineer, proposes to
inject water for secondary re-
covery purposes into the
Skelly Penrose B Unit Well
Nos: 18, 26, 28, 30, 31, 33,
37, 39, 44 located in sec-
tions 4,5, and 8, T-23-S, R-
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into the Queen formation at
an average depth of 3650' at
a rate of 300 BWPD per well
and a maximum pressure of
1800#. Interested parties
must file objections or re-
quests for hearing or re-
servations.

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt Fee will provide you the signature of the person delivered to and the date of delivery.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Doyle Hartman
500 N. Main
Midland, TX 79701

4a. Article Number

P 125 011 776

4b. Service Type

- ☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery

5-18-93

5. Signature (Addressee)

8. Addressee's Address (Only if requested and fee is paid)

6. Signature (Agent)

John Alth

PS Form 3811, November 1990 ☆ U.S. GPO: 1991-287-066

DOMESTIC RETURN RECEIPT

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I also wish to receive the following services (for an extra fee):

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2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Samedan Oil Corp.
10 Dosta Dr., Suite 240E
Midland, TX 79705

4a. Article Number

P 125 011 778

4b. Service Type

- ☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery

5/18/93

5. Signature (Addressee)

8. Addressee's Address (Only if requested and fee is paid)

6. Signature (Agent)

John Alth

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1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Anadarko Petroleum Corp.
P.O. Box 130
Artesia, NM
88211-0130

4a. Article Number

P 125 011 774

4b. Service Type

- ☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery

5-18-93

5. Signature (Addressee)

8. Addressee's Address (Only if requested and fee is paid)

6. Signature (Agent)

Bruce Wagh

SENDER:

- Complete items 1 and/or 2 for additional services.
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I also wish to receive the following services (for an extra fee):

- ☐ Addressee's Address
- ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Earl Bruno
P.O. Box 5456
Midland, TX 79704

4a. Article Number

P 125 011 777

4b. Service Type

- ☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery

5-19-93

5. Signature (Addressee)

8. Addressee's Address (Only if requested and fee is paid)

6. Signature (Agent)

[Signature]

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I also wish to receive the following services (for an extra fee):

- ☐ Addressee's Address
- ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

BC & D Oil & Gas Corp.
P.O. Box 5926
Hobbs, NM 88241

4a. Article Number

P 125 011 775

4b. Service Type

- ☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery

5-19-93

5. Signature (Addressee)

8. Addressee's Address (Only if requested and fee is paid)

6. Signature (Agent)

[Signature]

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- ☐ Addressee's Address
- ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

State of New Mexico
Oil Conservation Division
attn: Bill Gentry, Dir.
P.O. Box 2088
Santa Fe, NM 87504

4a. Article Number

P 125 011 916

4b. Service Type

- ☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery

5-19-93

5. Signature (Addressee)

8. Addressee's Address (Only if requested and fee is paid)

6. Signature (Agent)

PS Form 3811, November 1990 ☆ U.S. GPO: 1991-287-066

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- ☐ Addressee's Address
- ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Millard Beck Estate
P.O. Box 2546
Fort Worth, TX 76113

4a. Article Number

P 125 011 780

4b. Service Type

- ☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery

MAY 19 1993

5. Signature (Addressee)

8. Addressee's Address (Only if requested and fee is paid)

6. Signature (Agent)

PS Form 3811, November 1990 ☆ U.S. GPO: 1991-287-066

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I also wish to receive the following services (for an extra fee):

- ☐ Addressee's Address
- ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

NMOC D
District I
P.O. Box 1980
Hobbs, NM 88240

4a. Article Number

P 125 011 917

4b. Service Type

- ☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery

8. Addressee's Address (Only if requested and fee is paid)

5. Signature (Addressee)

6. Signature (Agent)

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I also wish to receive the following services (for an extra fee):

- ☐ Addressee's Address
- ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Conoco Inc.
3817 NW Expressway,
Suite 400
Oklahoma, OK 73018

4a. Article Number

P 125 011 771

4b. Service Type

- ☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery

5-20-93

5. Signature (Addressee)

8. Addressee's Address (Only if requested and fee is paid)

6. Signature (Agent)

PS Form 3811, November 1990 ☆ U.S. GPO: 1991-287-066

DOMESTIC RETURN RECEIPT

PS Form 3811, November 1990 ☆ U.S. GPO: 1991-287-066

DOMESTIC RETURN RECEIPT

6. Signature (Agent)

5. Signature (Addressee)

Terrence Meier
c/o Bruno Salomon
P.O. Box 184
Centerpoint, TX 78010

3. Article Addressed to:

- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt Fee will provide you the signature of the person delivered to and the date of delivery.

2. ☐ Restricted Delivery

Consult postmaster for fee.

4a. Article Number

P 125 011 779

4b. Service Type

- ☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery

5/19/93

8. Addressee's Address (Only if requested and fee is paid)



STATE OF NEW MEXICO

OIL CONSERVATION DIVISION
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

RECEIVED

OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

'93 MAR 21 AM 9 26

BRUCE KING
GOVERNORPOST OFFICE BOX 1980
HOBBS, NEW MEXICO 88241-1980
(505) 393-6161OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

RE: Proposed:

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

Gentlemen:

I have examined the application for the:

Operator

Lease & Well No. Unit

S-T-R

and my recommendations are as follows:

*Throck's premises
permitted id down on file.*

Yours very truly,

Jerry Sexton
Supervisor, District 1

/ed

#13-1 5 23 31
 #13-2 6 23 31
 #25-1 5 23 31
 #31-1 4 23 31
 #31-2 5 23 31
 #31-3 6 23 31
 #31-4 7 23 31
 #31-5 8 23 31