

KELLAHIN AND KELLAHIN

ATTORNEYS AT LAW

EL PATIO BUILDING

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SANTA FE, NEW MEXICO 87504-2265

W. THOMAS KELLAHIN*

*NEW MEXICO BOARD OF LEGAL SPECIALIZATION
RECOGNIZED SPECIALIST IN THE AREA OF
NATURAL RESOURCES-OIL AND GAS LAW

JASON KELLAHIN (RETIRED 1991)

TELEPHONE (505) 982-4285
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November 22, 1994

HAND DELIVERED

Mr. Michael E. Stogner
Chief Hearing Examiner
Oil Conservation Division
2040 South Pacheco
Santa Fe, New Mexico 87505

Re: Application of OXY USA Inc. for Approval of
an Expansion of its Myers Langlie-Mattix Unit
Waterflood Project and to Qualify Said Expansion
for the Recovered Oil Tax Rate Pursuant to the
"New Mexico Enhanced Oil Recovery Act",
Lea County, New Mexico

Dear Mr. Stogner:

On behalf of OXY USA Inc., please find enclosed our referenced application which we request be set for hearing on the next available Examiner's docket now scheduled for December 15, 1994.

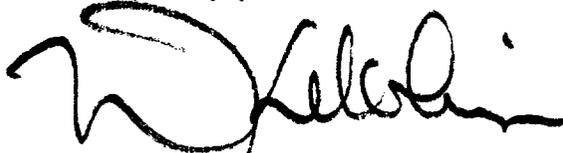
By copy of this letter and application, sent certified mail, we are notifying all interested parties within a 1/2 mile radius of the subject injection well of their right to appear at the hearing and participate in this case, including the right to present evidence either in support of or in opposition to the application and that failure to appear at the hearing may preclude them from any involvement in this case at a later date.

Mr. Michael E. Stogner
November 22, 1994
Page 2

Pursuant to the Division's Memorandum 2-90, all parties are hereby informed that if they appear in this case, then they are requested to file a Pre-Hearing Statement with the Division not later than 4:00 PM on Friday, December 9, 1994, with a copy delivered to the undersigned.

Also enclosed is our proposed advertisement of this case for the NMOCD docket.

Very truly yours,

A handwritten signature in black ink, appearing to read 'W. Thomas Kellahin', written in a cursive style.

W. Thomas Kellahin

Enclosure

cc: OXY USA Inc. (Midland) and
By Certified Mail - Return Receipt
All Parties Listed in Application



NOV 2

11/16/88

PROPOSED ADVERTISEMENT

11/16/88

CASE _____ Application of OXY USA Inc. for approval of an expansion to a waterflood project and to qualify said project for the recovered oil tax rate pursuant to the Enhanced Oil Recovery Act, Lea County, New Mexico. Applicant, in the above styled cause, seeks approval of an Expansion of its Myers Langlie-Mattix Unit Waterflood Project by means of a significant changes in process including the approval of the conversion of 16 producers to injection wells and to reactivate Unit Well No. 134 as an injection well. Applicant further seeks an order pursuant to the Rules and Procedures for Qualification of Enhanced Oil Recovery Projects and Certification for the Recovered Oil Tax Rate, as promulgated by Division Order R-9708, qualifying portions of its Myers Langlie-Mattix Unit Waterflood Project, located in various parts of Section 36, T23S, R36E, and in Sections 31 and 32, T23S, R37E, and in Sections 5 and 6, T24S, R37E, NMPM, Queen formation of the Langlie-Mattix Seven Rivers Queen Grayburg Pool, for the recovered oil tax rate under the "Enhanced Oil Recovery Act" (Law 1992, Chapter 38, Sections 1 through 5). Said project area is located approximately 9 miles north of Jal, New Mexico.

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION



NOV 2 1999

IN THE MATTER OF THE APPLICATION OF
OXY USA INC. TO AUTHORIZE THE EXPANSION
OF A PORTION OF ITS MYERS LANGLIE-MATTIX
UNIT WATERFLOOD PROJECT AND TO QUALIFY
SAID EXPANSION FOR THE RECOVERED OIL
TAX RATE PURSUANT TO THE "NEW MEXICO
ENHANCED OIL RECOVERY ACT,"
LEA COUNTY, NEW MEXICO

CASE NO 11168

APPLICATION

Comes now OXY USA INC., by its attorneys, Kellahin & Kellahin, and pursuant to the New Mexico "Enhanced Oil Recovery Act" and to Division Rule 701(G) applies to the New Mexico Oil Conservation Division approval of an expansion of its Myers Langlie-Mattix Unit Waterflood Project by means of a significant changes in process including the approval of the conversion of 16 producers to injection wells, to reactivate a plugged injector and an order pursuant to the Rules and Procedures for Qualification of Enhanced Oil Recovery Projects and Certification for the Recovered Oil Tax Rate, as promulgated by Division Order R-9708, qualifying portions of its Myers Langlie-Mattix Unit Waterflood Project, located in various parts of Section 36, T23S, R36E, and in Sections 31 and 32, T23S, R37E, and in Sections 5 and 6, T24S, R37E, NMPM, Queen formation of the Langlie-Mattix Seven Rivers Queen Grayburg Pool, for the recovered oil tax rate under the "Enhanced Oil Recovery Act" (Law 1992, Chapter 38, Sections 1 through 5).

(1) Oxy USA Inc. ("OXY") is the current operator of the Myers Langlie-Mattix Unit ("Unit") which was approved by Division Order R-4660 issued November 16, 1973 and the Myers Langlie-Mattix Unit Waterflood Project ("Existing EOR Project") which was approved by Division Order R-4680 issued effective November 20, 1973.

(2) At the time of unitization approval by the Division on November 16, 1973, the Unit encompassed 9923.68 acres. Waterflood operations were initiated during the 1970s on 80-acre five-spot injection patterns.

(3) Ultimate primary oil recovery from the Unit has been 9,000 MBBL. As of October 31, 1994, total oil production from the Unit was 15,200,000 barrels. Under the proposed 40-acre five-spot patterns, ultimate secondary oil recovery is estimated at 1600 MBBL.

(4) The Unit is currently producing at 613 BOPD and 7032 BWPD from 93 active producers. Only 62 injectors are currently active. Approximately 688 MBBL of reserves remain under the current mode of operations.

(5) OXY seeks to expand a portion of this Unit by means of a significant change in the process used for the displacement of crude oil by a 20-acre infill drilling, reworking, establishment of water injection and initiation of 40-acre, 5-spot patterns for the Unit.

(6) OXY seeks approval to convert 16 producers to injection wells, to utilize plugged injection well (Unit Well No. 134) again for injection for the Waterflood Project and authorization for the necessary changes to convert the waterflood project from 80-acre five spot patterns to 20-acre infill with 40-acre 5-spot patterns.

(7) The estimated amount of recoverable oil attributable to a Positive Production Response from the Expanded Use of enhanced oil recovery technology for a portion of this existing EOR Project is 1,600,000 barrels of additional oil.

(8) In accordance with Division Order R-9708, the following is submitted:

a. Operator's name and address:

OXY USA INC.
P. O. Box 50250
Midland, Texas 79710

b. Description of the Expanded Use area:

(1) Plat outlining Expanded Use area:

See Exhibit "A"

(2) Description of the Expanded Use Area:

T23S, R36E NMPM
Sec. 36: SE/4SE/4NE/4
NE/4NE/4SE/4

T23S,R37E, NMPM
Sec. 31: S/2S/2NW/4
SW/4SW/4NE/4
E/2SW/4
E/2W/2SW/4
NW/4NW/4SW/4
S/2SE/4
S/2N/2SE/4
NW/4NW/4SE/4
Sec. 32: S/2NW/4SW/4
SW/4NE/4SW/4
W/2SE/4SW/4
SW/4SW/4

T24S, R37E, NMPM

Sec 5: W/2NW/4
W2/2E/2NW/4
NW/4SW/4
W/2NE/4SW/4
N/2SW/4SW/4
NW/4SE/4SW/4

Sec 6: NE/4NW/4NW/4
N/2NE/4NW/4
N/2N/2NE/4
SE/4NE/4NE/4
E/2SE/4NE/4
E/2NE/4SE/4
NE/4SE/4SE/4

(3) Total acres in Expanded Use Area:

760 acres, more or less

(4) Name of the subject Pool and formation:

Queen formation of the
Langlie-Mattix Seven Rivers
Queen Grayburg Pool

c. Status of operations in the project area:

(1) unit name:

Myers Langlie-Mattix Unit
Order R-4660 issued November 16, 1973

(2) N/A

(3) N/A

d. Method of recovery to be used:

- (1) injected fluids: water
- (2) Approved by Order R-4680
issued November 20, 1973
- (3) N/A

e. Description of the Expanded Use Area:

- (1) a list of producing wells:
See Exhibit "B"
- (2) a list of injection wells:
See Exhibit "B" and "C"

(3) Capital cost of additional facilities:

Drill & Equip 18 producers: \$3,660,000
Convert 17 producers to injec: 690,000
Upgrade Battery/injec.facil: 750,000

(4) Total Project Costs:

\$5,100,000.

(5) Estimated total value of the additional
production that will be recovered as a
result of this Expanded Use Area:

An additional 1,600,000 barrels of oil
with a current undiscounted value
of \$ 14.8 million dollars

(6) Anticipated date of commencement of
injection:

as soon as possible after
OCD approval, if granted.

(7) the type of fluid to be injected and the anticipated volumes:

water injected at an estimated
rate of 300 BWPD

(8) Explanation of changes in technology:

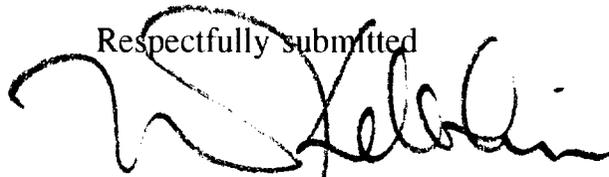
OXY proposes to utilize changes in technology and the process to be used for displacement of oil as approved by Division Order R-9955-A, issued April 29, 1994, for the OXY USA Inc.'s Skelly Penrose "B" Unit Waterflood Project

f. Production data:

See attached graphs marked as Exhibits "D" "E" and "F" to show the production history and production forecast of oil, gas, casinghead gas and water from the project area.

Wherefore, Applicant requests that this application be set for hearing and that after said hearing, the Division enter its order approving this application.

Respectfully submitted



W. Thomas Kellahin
KELLAHIN & KELLAHIN
P.O. Box 2265
Santa Fe, New Mexico 87504
(505) 982-4285

CERTIFICATION

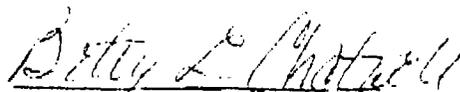
STATE OF TEXAS)
) SS.
COUNTY OF MIDLAND)

I, Scott Gengler, having been first duly sworn, state that I am a petroleum engineer, a duly authorized representative of OXY USA Inc, have knowledge of the facts herein and therefor certify that the facts set forth in this Application are true and accurate to the best of my own knowledge and belief.


Scott Gengler

STATE OF TEXAS)
) SS.
COUNTY OF MIDLAND)

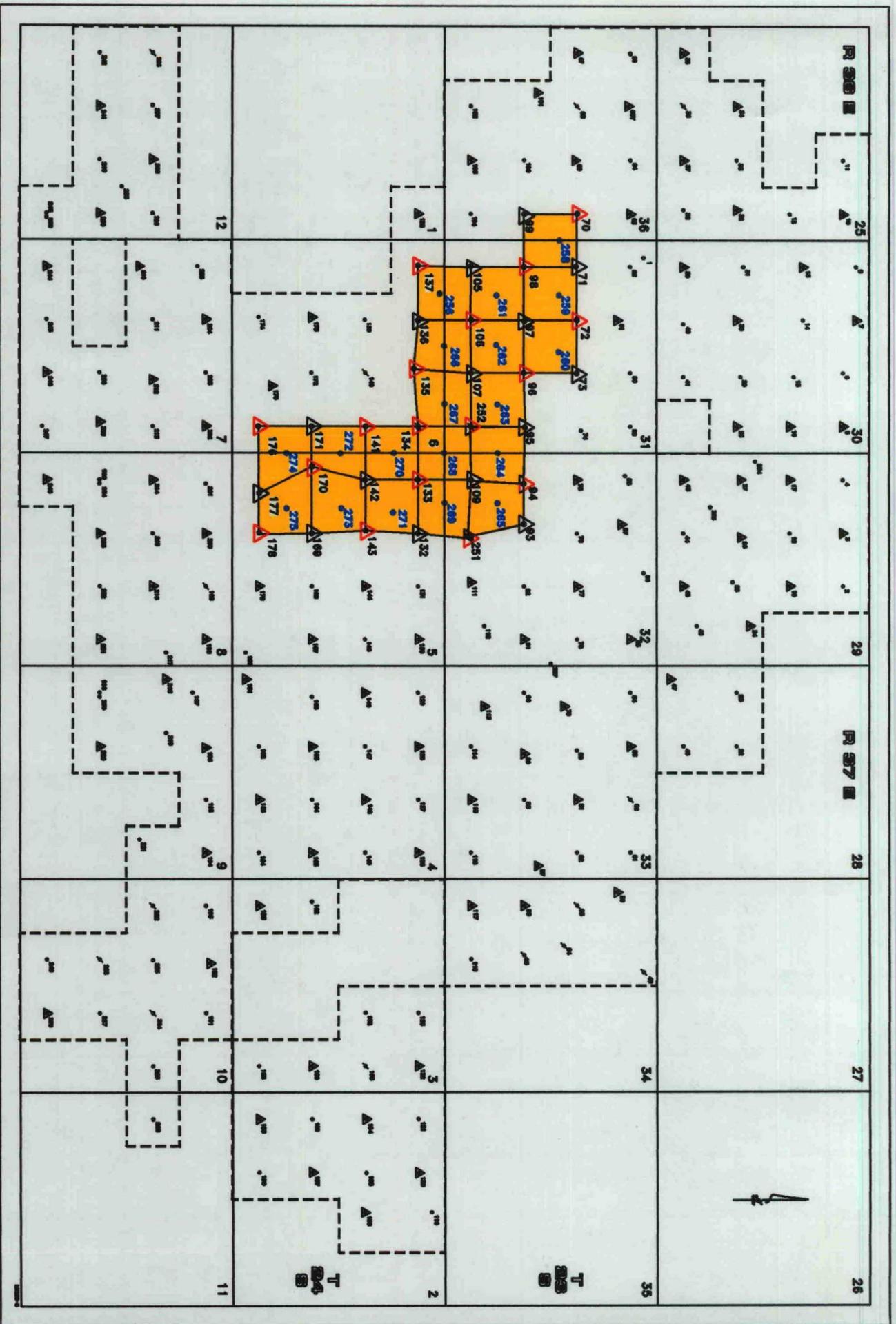
The foregoing certificate was signed and acknowledged before me on this 22 day of November, 1994, by Scott Gengler.


Notary Public

My Commission Expires:

11-15-97



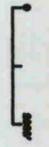


PROVISIONS
 WATER MAINS
 FURNISH & INSTALL

CONVERT TO MARCHION
 SHILL & SOUP, PROVISIONS
 PROJECT AREA

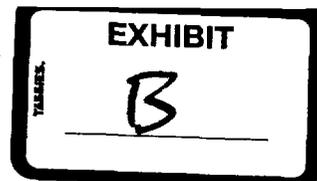


MYERS LANGLIE MATTIX QUEEN UNIT
 1994 DEVELOPMENT PLANS



DATE: 7/2/94

**Myers Langlie Mattix Unit
Current Status**



Well	Location	Status
Myers Langlie Mattix Unit #70	1980' FNL & 660' FEL, Sec 36, T23S, R36E	Inactive Producer
Myers Langlie Mattix Unit #71	1980' FNL & 660' FWL, Sec 31, T23S, R37E	Active Injector
Myers Langlie Mattix Unit #72	1980' FNL & 1980' FWL, Sec 31, T23S, R37E	Inactive Producer
Myers Langlie Mattix Unit #73	1980' FNL & 1980' FEL, Sec 31, T23S, R37E	Active Injector
Myers Langlie Mattix Unit #93	1980' FSL & 1750' FWL, Sec 32, T23S, R37E	Active Injector
Myers Langlie Mattix Unit #94	1980' FSL & 760' FWL, Sec 32, T23S, R37E	Inactive Producer
Myers Langlie Mattix Unit #95	1980' FSL & 660' FEL, Sec 31, T23S, R37E	Active Injector
Myers Langlie Mattix Unit #96	1979' FSL & 1980' FEL, Sec 31, T23S, R37E	Active Producer
Myers Langlie Mattix Unit #97	1980' FSL & 1980' FWL, Sec 31, T23S, R37E	Inactive Injector
Myers Langlie Mattix Unit #98	1980' FSL & 660' FWL, Sec 31, T23S, R37E	Active Producer
Myers Langlie Mattix Unit #99	1980' FSL & 660' FEL, Sec 36, T23S, R36E	Inactive Injector
Myers Langlie Mattix Unit #105	660' FSL & 660' FWL, Sec 31, T23S, R37E	Active Injector
Myers Langlie Mattix Unit #106	660' FSL & 1936' FWL, Sec 31, T23S, R37E	Active Producer
Myers Langlie Mattix Unit #107	660' FSL & 1980' FEL, Sec 31, T23S, R37E	Active Injector
Myers Langlie Mattix Unit #109	660' FSL & 660' FWL, Sec 32, T23S, R37E	Active Injector
Myers Langlie Mattix Unit #132	660' FNL & 1980' FWL, Sec 5, T24S, R37E	Active Injector
Myers Langlie Mattix Unit #133	660' FNL & 660' FWL, Sec 5, T24S, R37E	Active Producer
Myers Langlie Mattix Unit #134	660' FNL & 660' FEL, Sec 6, T24S, R37E	Inactive
Myers Langlie Mattix Unit #135	760' FNL & 2080' FEL, Sec 6, T24S, R37E	Active Producer
Myers Langlie Mattix Unit #136	660' FNL & 1980' FWL, Sec 6, T24S, R37E	Active Injector
Myers Langlie Mattix Unit #137	660' FNL & 626' FWL, Sec 6, T24S, R37E	Active Producer
Myers Langlie Mattix Unit #141	1962' FNL & 660' FEL, Sec 6, T24S, R37E	Active Producer
Myers Langlie Mattix Unit #142	1962' FNL & 660' FWL, Sec 5, T24S, R37E	Active Injector
Myers Langlie Mattix Unit #143	1960' FNL & 1905' FWL, Sec 5, T24S, R37E	Active Producer
Myers Langlie Mattix Unit #169	1980' FSL & 1980' FWL, Sec 5, T24S, R37E	Active Injector
Myers Langlie Mattix Unit #170	1980' FSL & 330' FWL, Sec 5, T24S, R37E	Active Producer
Myers Langlie Mattix Unit #171	1980' FSL & 660' FEL, Sec 6, T24S, R37E	Active Injector
Myers Langlie Mattix Unit #176	660' FSL & 660' FEL, Sec 6, T24S, R37E	Active Producer
Myers Langlie Mattix Unit #177	660' FSL & 990' FWL, Sec 5, T24S, R37E	Active Injector
Myers Langlie Mattix Unit #178	660' FSL & 1980' FWL, Sec 5, T24S, R37E	Active Producer
Myers Langlie Mattix Unit #251	660' FSL & 2096' FWL, Sec 32, T23S, R37E	Active Producer
Myers Langlie Mattix Unit #252	685' FSL & 660' FEL, Sec 31, T23S, R37E	Active Producer
Myers Langlie Mattix Unit #256	105' FNL & 1310' FWL, Sec 6, T24S, R37E	Active Producer
Myers Langlie Mattix Unit #258	2560' FSL & 120' FWL, Sec 31, T23S, R37E	Active Producer
Myers Langlie Mattix Unit #259	2620' FNL & 1340' FWL, Sec 31, T23S, R37E	Active Producer
Myers Langlie Mattix Unit #260	2535' FSL & 2563' FWL, Sec 31, T23S, R37E	Active Producer
Myers Langlie Mattix Unit #261	1340' FSL & 1300' FWL, Sec 31, T23S, R37E	Active Producer
Myers Langlie Mattix Unit #262	1350' FSL & 2380' FWL, Sec 31, T23S, R37E	Active Producer
Myers Langlie Mattix Unit #263	1398' FSL & 1564' FEL, Sec 31, T23S, R37E	Active Producer
Myers Langlie Mattix Unit #264	1400' FSL & 160' FWL, Sec 32, T23S, R37E	Active Producer
Myers Langlie Mattix Unit #265	1460' FSL & 1340' FWL, Sec 32, T23S, R37E	Active Producer
Myers Langlie Mattix Unit #266	100' FNL & 2556' FWL, Sec 6, T24S, R37E	Active Producer
Myers Langlie Mattix Unit #267	190' FNL & 1460' FEL, Sec 6, T24S, R37E	Active Producer
Myers Langlie Mattix Unit #268	139' FNL & 372' FEL, Sec 6, T24S, R37E	Active Producer
Myers Langlie Mattix Unit #269	238' FNL & 1274' FWL, Sec 5, T24S, R37E	Active Producer
Myers Langlie Mattix Unit #270	1410' FNL & 90' FEL, Sec 6, T24S, R37E	Active Producer
Myers Langlie Mattix Unit #271	1340' FNL & 1030' FWL, Sec 5, T24S, R37E	Active Producer
Myers Langlie Mattix Unit #272	2620' FNL & 90' FEL, Sec 6, T24S, R37E	Active Producer
Myers Langlie Mattix Unit #273	2533' FNL & 1350' FWL, Sec 5, T24S, R37E	Active Producer
Myers Langlie Mattix Unit #274	1300' FSL & 120' FWL, Sec 5, T24S, R37E	Active Producer
Myers Langlie Mattix Unit #275	1340' FSL & 1340' FWL, Sec 5, T24S, R37E	Active Producer

Myers Langlie Mattix Unit
Proposed Status

<u>Well</u>	<u>Location</u>	<u>Status</u>
Myers Langlie Mattix Unit #70	1980' FNL & 660' FEL, Sec 36, T23S, R36E	Injector
Myers Langlie Mattix Unit #71	1980' FNL & 660' FWL, Sec 31, T23S, R37E	Injector
Myers Langlie Mattix Unit #72	1980' FNL & 1980' FWL, Sec 31, T23S, R37E	Injector
Myers Langlie Mattix Unit #73	1980' FNL & 1980' FEL, Sec 31, T23S, R37E	Injector
Myers Langlie Mattix Unit #93	1980' FSL & 1750' FWL, Sec 32, T23S, R37E	Injector
Myers Langlie Mattix Unit #94	1980' FSL & 760' FWL, Sec 32, T23S, R37E	Injector
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Myers Langlie Mattix Unit #96	1979' FSL & 1980' FEL, Sec 31, T23S, R37E	Injector
Myers Langlie Mattix Unit #97	1980' FSL & 1980' FWL, Sec 31, T23S, R37E	Injector
Myers Langlie Mattix Unit #98	1980' FSL & 660' FWL, Sec 31, T23S, R37E	Injector
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Myers Langlie Mattix Unit #141	1962' FNL & 860' FEL, Sec 6, T24S, R37E	Injector
Myers Langlie Mattix Unit #142	1962' FNL & 660' FWL, Sec 5, T24S, R37E	Injector
Myers Langlie Mattix Unit #143	1960' FNL & 1905' FWL, Sec 5, T24S, R37E	Injector
Myers Langlie Mattix Unit #169	1980' FSL & 1980' FWL, Sec 5, T24S, R37E	Injector
Myers Langlie Mattix Unit #170	1980' FSL & 330' FWL, Sec 5, T24S, R37E	Injector
Myers Langlie Mattix Unit #171	1980' FSL & 660' FEL, Sec 6, T24S, R37E	Injector
Myers Langlie Mattix Unit #176	660' FSL & 660' FEL, Sec 6, T24S, R37E	Injector
Myers Langlie Mattix Unit #177	660' FSL & 990' FWL, Sec 5, T24S, R37E	Injector
Myers Langlie Mattix Unit #178	660' FSL & 1980' FWL, Sec 5, T24S, R37E	Injector
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Myers Langlie Mattix Unit #252	685' FSL & 660' FEL, Sec 31, T23S, R37E	Injector
Myers Langlie Mattix Unit #256	105' FNL & 1310' FWL, Sec 6, T24S, R37E	Producer
Myers Langlie Mattix Unit #258	2560' FSL & 120' FWL, Sec 31, T23S, R37E	Producer
Myers Langlie Mattix Unit #259	2620' FNL & 1340' FWL, Sec 31, T23S, R37E	Producer
Myers Langlie Mattix Unit #260	2535' FSL & 2563' FWL, Sec 31, T23S, R37E	Producer
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Myers Langlie Mattix Unit #262	1350' FSL & 2380' FWL, Sec 31, T23S, R37E	Producer
Myers Langlie Mattix Unit #263	1398' FSL & 1564' FEL, Sec 31, T23S, R37E	Producer
Myers Langlie Mattix Unit #264	1400' FSL & 160' FWL, Sec 32, T23S, R37E	Producer
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Myers Langlie Mattix Unit #275	1340' FSL & 1340' FWL, Sec 5, T24S, R37E	Producer

INJECTION WELL DATA SHEET

OXY USA Inc.

Myers Langlie Mattix Unit # 70

1980' FNL & 660' FEL, Sec 36, T-23-S, R-36-E
Lea County, New Mexico

INJECTION WELL DATA SHEET

OXY USA Inc.

Myers Langlie Mattix Unit # 72

1980' FNL & 1980' FWL, Sec 31, T-23-S, R-37-E
Lea County, New Mexico

INJECTION WELL DATA SHEET

OXY USA Inc.

Myers Langlie Mattix Unit # 94

1980' FSL & 760' FWL, Sec 31, T-23-S, R-37-E
Lea County, New Mexico

INJECTION WELL DATA SHEET

OXY USA Inc.

Myers Langlie Mattix Unit # 96

1979' FSL & 1980' FEL, Sec 31, T-23-S, R-37-E
Lea County, New Mexico

INJECTION WELL DATA SHEET

OXY USA Inc.

Myers Langlie Mattix Unit # 98

1980' FSL & 660' FWL, Sec 31, T-23-S, R-37-E
Lea County, New Mexico

INJECTION WELL DATA SHEET

OXY USA Inc.

Myers Langlie Mattix Unit # 106

660' FSL & 1936' FWL, Sec 31, T-23-S, R-37-E
Lea County, New Mexico

INJECTION WELL DATA SHEET

OXY USA Inc.

Myers Langlie Mattix Unit # 133

660' FNL & 660' FWL, Sec 5, T-24-S, R-37-E
Lea County, New Mexico

INJECTION WELL DATA SHEET

OXY USA Inc.

Myers Langlie Mattix Unit # 134

660' FNL & 660' FEL, Sec 6, T-24-S, R-37-E
Lea County, New Mexico

INJECTION WELL DATA SHEET

OXY USA Inc.

Myers Langlie Mattix Unit # 135

760' FNL & 2080' FEL, Sec 6, T-24-S, R-37-E
Lea County, New Mexico

INJECTION WELL DATA SHEET

OXY USA Inc.

Myers Langlie Mattix Unit # 137

660' FNL & 626' FWL, Sec 6, T-24-S, R-37-E
Lea County, New Mexico

INJECTION WELL DATA SHEET

OXY USA Inc.

Myers Langlie Mattix Unit # 141

1961.5' FNL & 660' FEL, Sec 6, T-24-S, R-37-E
Lea County, New Mexico

INJECTION WELL DATA SHEET

OXY USA Inc.

Myers Langlie Mattix Unit # 143

1959.54' FNL & 1905' FWL, Sec 5, T-24-S, R-37-E
Lea County, New Mexico

INJECTION WELL DATA SHEET

OXY USA Inc.

Myers Langlie Mattix Unit # 170

1980' FSL & 330' FWL, Sec 5, T-24-S, R-37-E
Lea County, New Mexico

INJECTION WELL DATA SHEET

OXY USA Inc.

Myers Langlie Mattix Unit # 176

660' FSL & 660' FEL, Sec 6, T-24-S, R-37-E
Lea County, New Mexico

INJECTION WELL DATA SHEET

OXY USA Inc.

Myers Langlie Mattix Unit # 178

660' FSL & 1980' FWL, Sec 5, T-24-S, R-37-E
Lea County, New Mexico

INJECTION WELL DATA SHEET

OXY USA Inc.

Myers Langlie Mattix Unit # 251

660' FSL & 2096' FWL, Sec 32, T-23-S, R-37-E
Lea County, New Mexico

INJECTION WELL DATA SHEET

OXY USA Inc.

Myers Langlie Mattix Unit # 252

685' FSL & 660' FEL, Sec 32, T-23-S, R-37-E
Lea County, New Mexico



MYERS LANGLEIE MATTIX UNIT

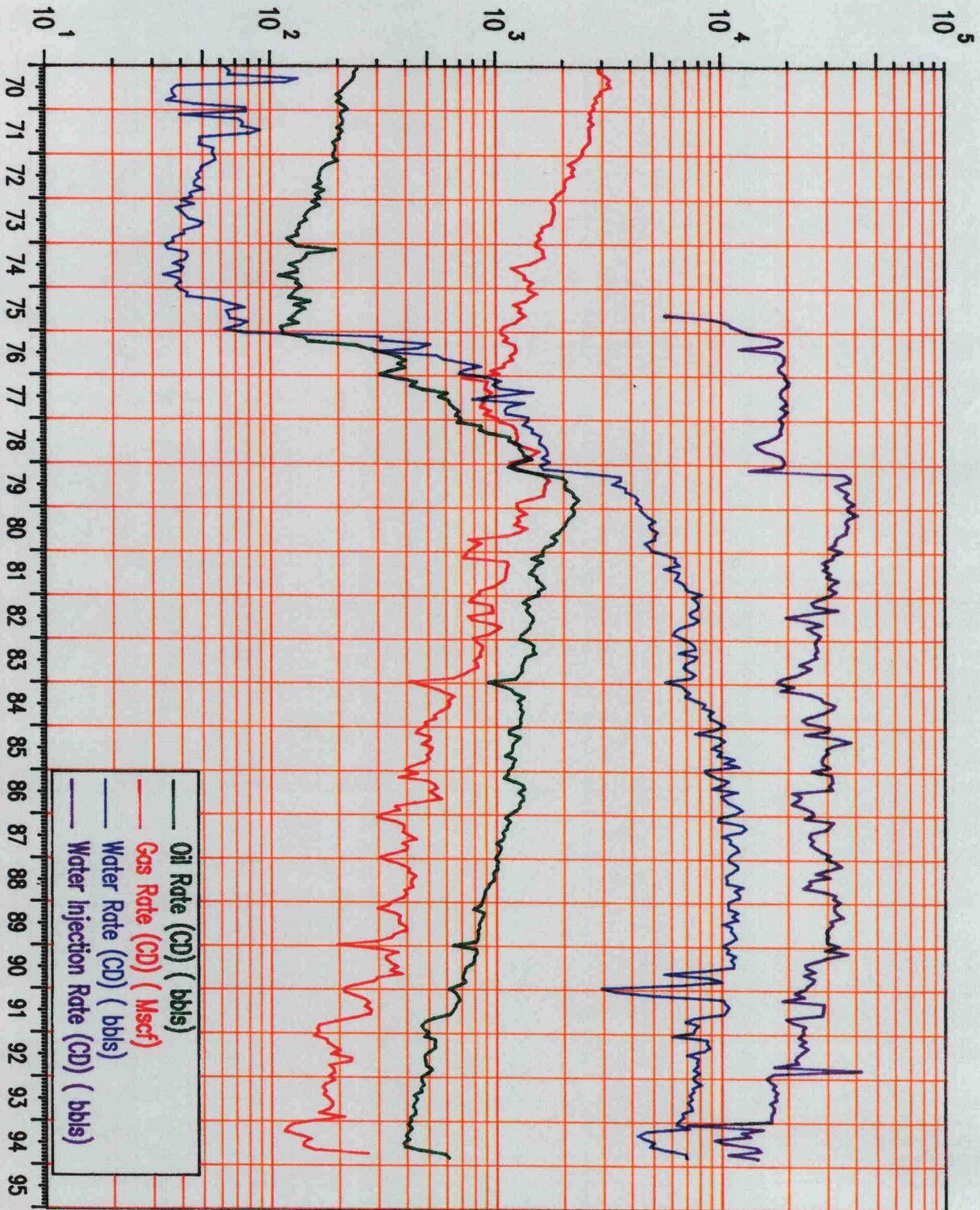
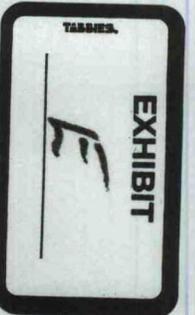
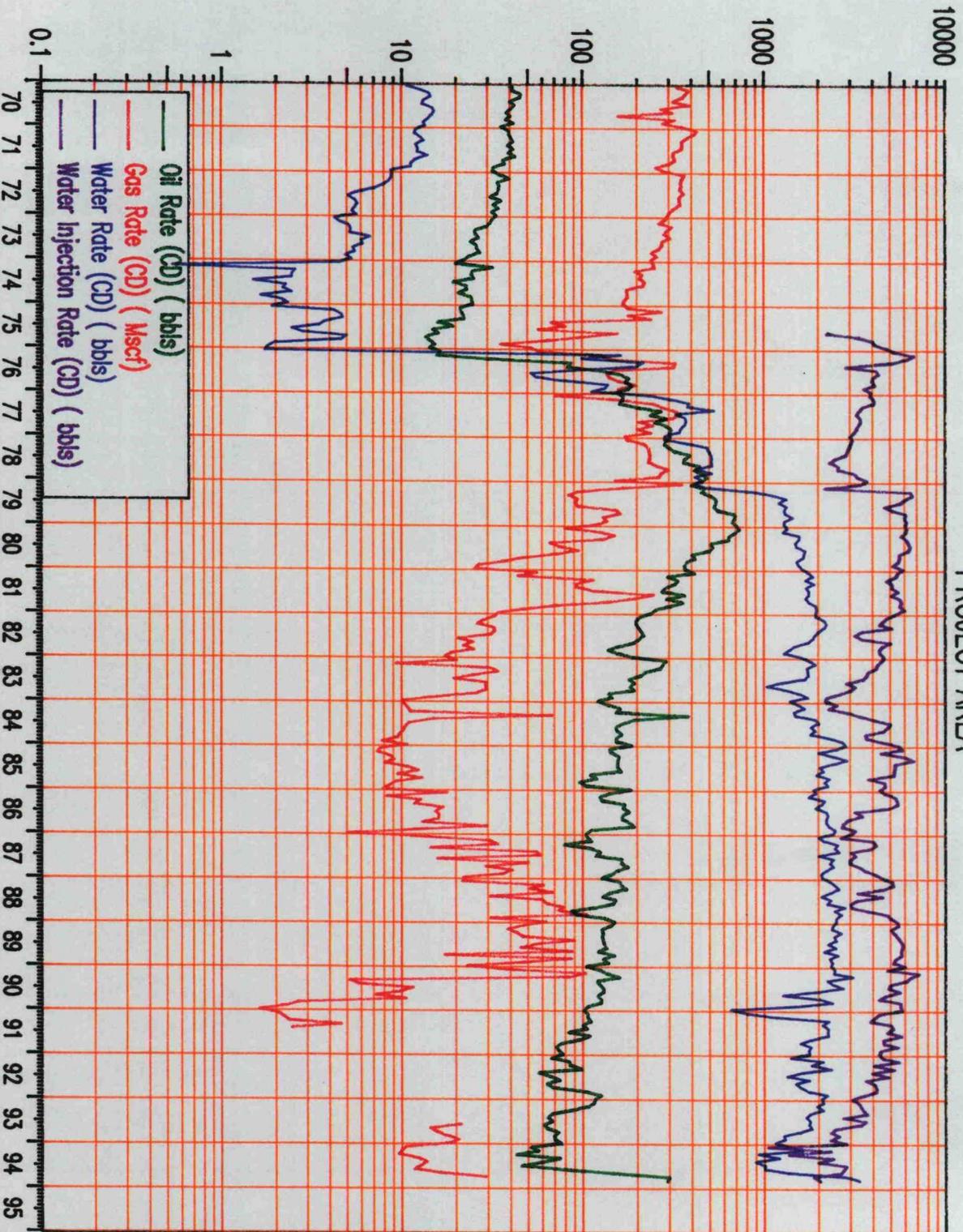


EXHIBIT
D

MYERS LANGLEE MATTIX UNIT PROJECT AREA



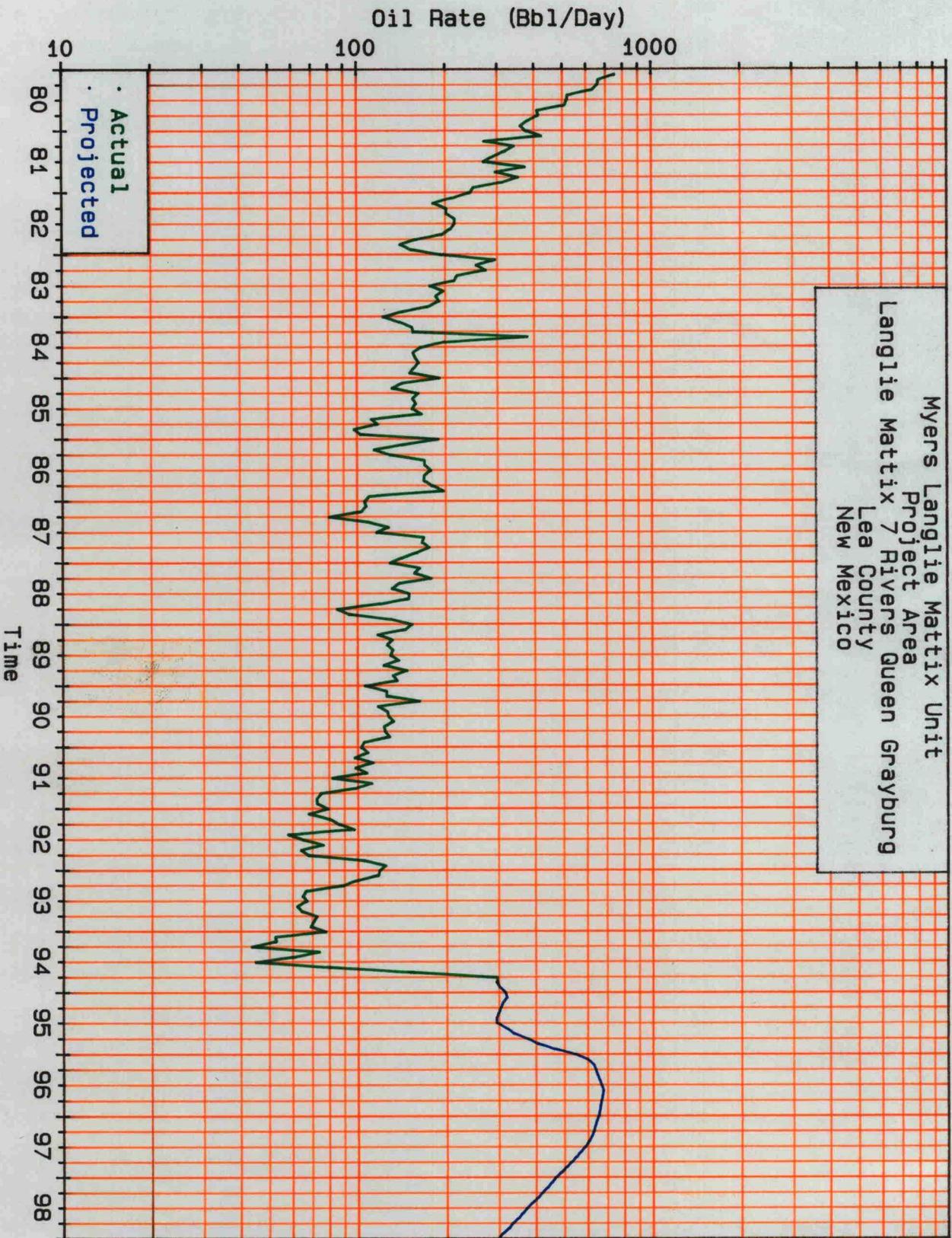


EXHIBIT
 F

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