12222 Merit Drive, Suite 1500 Dallas, Texas 75251 (214) 701-8377 (214) 960-1252 Fax

UN DIVISION OIL CONSERV. JUN DIVI RECENTED 3 PM 8

March 24, 1995

Division Director Oil Conservation Commission Box 2088 Santa Fe, NM 87501

Re: Unorthodox Location Langlie Mattix Queen Unit Well No.'s 45 & 46 Humphrey Queen Unit Well No. 35 Lea County, NM

Dear Sir:

By copy of this letter, Merit Energy Company is hereby requesting administrative approval for exception to well location requirements. Attached please find a copy of our application to drill the for the above captioned wells located in Lea County, New Mexico. The unorthodox location is needed to commence an infill drilling program in the Langlie Mattix Queen Unit and Humphrey Queen Unit. This additional development will allow Merit to complete a more efficient production and injection pattern and increase the ultimate primary and secondary recovery from the unit.

Attached is a plat showing the proposed locations and lease ownership in the general area. Notification letters were sent to the offset operators as of March 24, 1995, by certified mail return receipt requested. As we receive proof of notification, they will be forward to you.

If you have any questions or require additional information, please contact me at (214) 701-8377.

Sincerely,

Sheryl J. Carruth Regulatory Manager

SJC:s

#### OFFSET OPERATORS

#### HUMPHREY QUEEN UNIT and LANGLIE MATTIX QUEEN UNIT

Betwell Oil & Gas Company P. O. Box 2577 Hialeah, FL 33012

Meridian Oil Inc. 21 Desta Drive Midland, TX 79705

Westbrook Oil Crop. 810 W. Broadway Box 2264 Hobbs, NM 88240

Texaco Expl. & Prod. Box 730 Hobbs, NM 88241-0730

Citation Oil & Gas 8223 Willow Place South Suite 250 Houston, TX 77070

J F G Enterprises 701 E. Main Box 100 Artesia, NM 88211-0100

Penroc Oil Corp. Box 5970 Hobbs, NM 88241

J. Cecil Rhodes 500 W. Texas Suite 1190 Midland, TX 79701

Bettis Boyle & Stovall 505 5th Street P. O. Box 1240 Graham, TX 76450-1240

Santa Fe Energy 500 W. Illionois Midland, TX 79701 Southwest Royalties 407 N. Big Spring, Suite 300 Midland, TX 79702

Robert L. Parker 8 East Third St. Tulsa, OK 74103

Shell Western E & P Box 576 Houston, TX 77001

Exxon Co USA Box 2180 Houston, TX 77252-2180

Joe Melton Drlg. P. O. Box 4203 Midland, TX 79704-4203

Chance Properties Box 755 Hobbs, NM 88241

Chevron USA Inc. 6400 S. Fiddler's Green Circle Englewood, CO 80111

Permian Resources Inc. 810 Western United Life P. O. Box 590 Midland, TX 79702-0590

Arch Petroleum Inc. 777 Taylor St. Suite 11A Fort Worth, TX 76102

Carr Well Service Inc. Box 69090 Odessa, TX 79767 Lewis B. Burleson P. O. Box 2479 Midland, TX 79702-2479

Amerada Hess Corp. Box 2040 Tulsa, OK 74102

R B Operating Co. 2412 N. Grandview Suite 201 Odessa, TX 79761

Tahoe Energy Inc. 3909 W. Industrial Midland, TX 79703

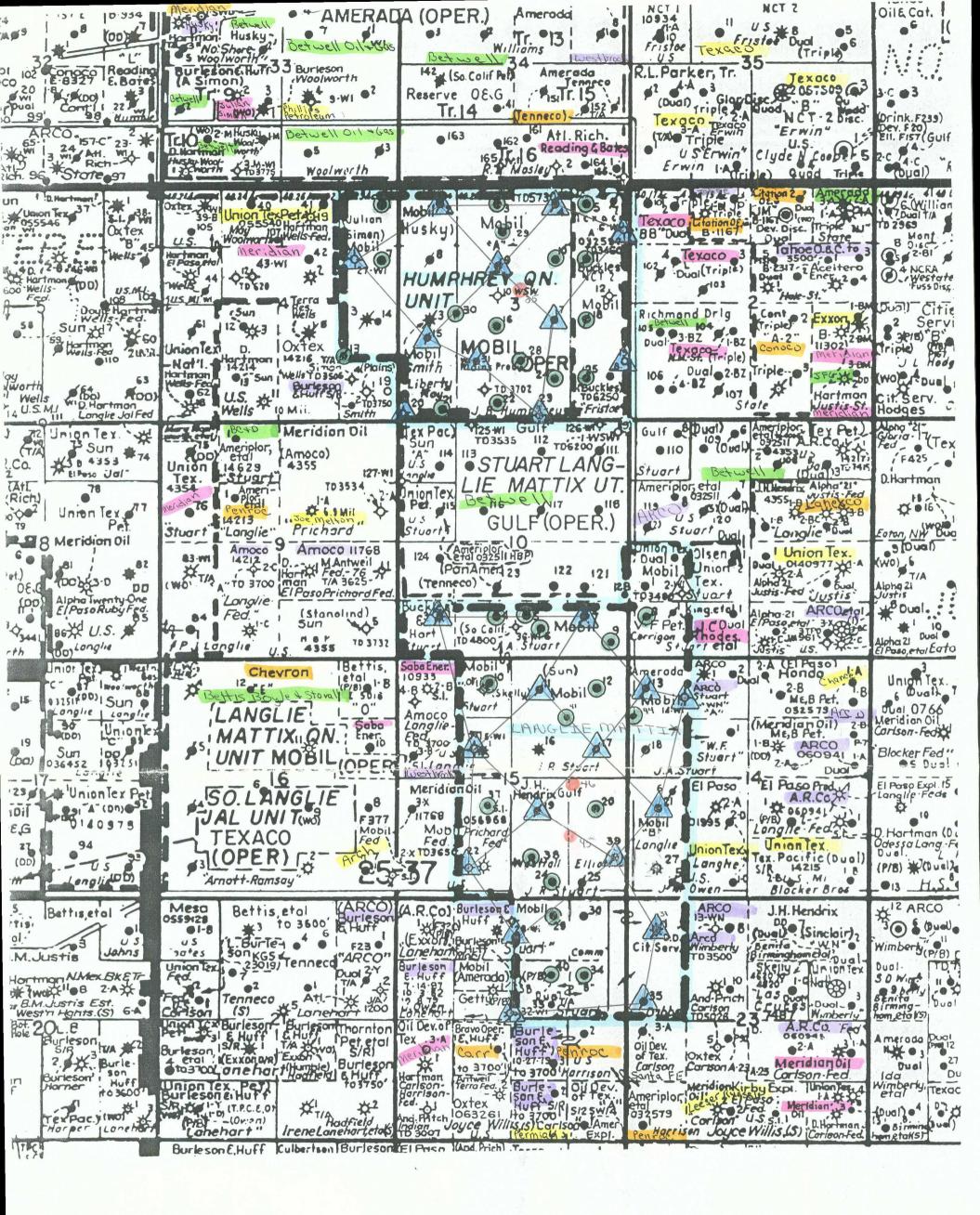
Conoco Inc. 3817 NW Expwy, Suite 400 Oklahoma City, OK 73018

Amoco Box 3092 Houston, TX 77253

B C & D Operating P. O. Box 5926 Hobbs, NM 88241

Lanexco Inc. Box 2730 Midland, TX 79702

Saba Energy Inc. 2112 Hurd Dr. Irving, TX 75038



Merit Energy Company Humphrey Queen and Langlie Mattix Unit 1" = 2000

A Injector

Producer

@ Proposed Drill Well

12222 Merit Drive, Suite 1500 Dallas, Texas 75251 (214) 701-8377 (214) 960-1252 Fax

March 23, 1995

Betwell Oil & Gas Company P. O. Box 2577 Hialeah, FL 33012

Re: Langlie Mattix Queen Unit Well No.'s 45 & 46 Humphrey Queen Unit Well No. 35 Lea County, NM

Gentlemen:

Attached please find a copy of Merit Energy Company's application for permit to drill the above captioned wells. Due to the fact that these wells are located in an unorthodox location in respect to the well location rules set by the Conservation Commission, we are seeking administrative approval.

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Sheryl J. Carruth Regulatory Manager

SJC:s

12222 Merit Drive, Suite 1500 Dallas, Texas 75251 (214) 701-8377 (214) 960-1252 Fax

March 24, 1995

Southwest Royalties 407 N. Big Spring, Suite 300 Midland, TX 79702

Re: Langlie Mattix Queen Unit Well No.'s 45 & 46 Humphrey Queen Unit Well No. 35 Lea County, NM

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Sheryl J. Carruth Regulatory Manager

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12222 Merit Drive, Suite 1500 Dallas, Texas 75251 (214) 701-8377 (214) 960-1252 Fax

March 24, 1995

Lewis B. Burleson P. O. Box 2479 Midland, TX 79702-2479

Re: Langlie Mattix Queen Unit Well No.'s 45 & 46 Humphrey Queen Unit Well No. 35 Lea County, NM

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12222 Merit Drive, Suite 1500 Dallas, Texas 75251 (214) 701-8377 (214) 960-1252 Fax

March 24, 1995

Meridian Oil Inc. 21 Desta Drive Midland, TX 79705

Re: Langlie Mattix Queen Unit Well No.'s 45 & 46 Humphrey Queen Unit Well No. 35 Lea County, NM

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Sheryl J. Carruth Regulatory Manager

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12222 Merit Drive, Suite 1500 Dallas, Texas 75251 (214) 701-8377 (214) 960-1252 Fax

March 24, 1995

Robert L. Parker 8 East Third St. Tulsa, OK 74103

Re: Langlie Mattix Queen Unit Well No.'s 45 & 46 Humphrey Queen Unit Well No. 35 Lea County, NM

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Sheryl J. Carruth Regulatory Manager

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12222 Merit Drive, Suite 1500 Dallas, Texas 75251 (214) 701-8377 (214) 960-1252 Fax

March 24, 1995

Amerada Hess Corp. Box 2040 Tulsa, OK 74102

Re: Langlie Mattix Queen Unit Well No.'s 45 & 46 Humphrey Queen Unit Well No. 35 Lea County, NM

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12222 Merit Drive, Suite 1500 Dallas, Texas 75251 (214) 701-8377 (214) 960-1252 Fax

March 24, 1995

Westbrook Oil Corp. 810 W. Broadway Box 2264 Hobbs, NM 88240

Re: Langlie Mattix Queen Unit Well No.'s 45 & 46 Humphrey Queen Unit Well No. 35 Lea County, NM

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12222 Merit Drive, Suite 1500 Dalias, Texas 75251 (214) 701-8377 (214) 960-1252 Fax

March 24, 1995

Shell Western E & P Box 576 Houston, TX 77001

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Sheryl J. Carruth Regulatory Manager

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12222 Merit Drive, Suite 1500 Dallas, Texas 75251 (214) 701-8377 (214) 960-1252 Fax

March 24, 1995

R B Operating Co. 2412 N. Grandview Suite 201 Odessa, TX 79761

Re: Langlie Mattix Queen Unit Well No.'s 45 & 46 Humphrey Queen Unit Well No. 35 Lea County, NM

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12222 Merit Drive, Suite 1500 Dallas, Texas 75251 (214) 701-8377 (214) 960-1252 Fax

March 24, 1995

Texaco Expl. & Prod. Box 730 Hobbs, NM 88241-0730

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12222 Merit Drive, Suite 1500 Dallas, Texas 75251 (214) 701-8377 (214) 960-1252 Fax

March 24, 1995

Exxon Co. USA Box 2180 Houston, TX 77252-2180

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12222 Merit Drive, Suite 1500 Dallas, Texas 75251 (214) 701-8377 (214) 960-1252 Fax

March 24, 1995

Tahoe Energy Inc. 3909 W. Industrial Midland, TX 79703

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12222 Merit Drive, Suite 1500 Dallas, Texas 75251 (214) 701-8377 (214) 960-1252 Fax

March 24, 1995

Citation Oil & Gas 8223 Willow Place South Suite 250 Houston, TX 77070

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12222 Merit Drive, Suite 1500 Dallas, Texas 75251 (214) 701-8377 (214) 960-1252 Fax

March 24, 1995

Joe Melton Drilling P. O. Box 4203 Midland, TX 79704-4203

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12222 Merit Drive, Suite 1500 Dallas, Texas 75251 (214) 701-8377 (214) 960-1252 Fax

March 24, 1995

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

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12222 Merit Drive, Suite 1500 Dallas, Texas 75251 (214) 701-8377 (214) 960-1252 Fax

March 24, 1995

J F G Enterprises 701 E. Main Box 100 Artesia, NM 88211-0100

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12222 Merit Drive, Suite 1500 Dallas, Texas 75251 (214) 701-8377 (214) 960-1252 Fax

March 24, 1995

Chance Properties Box 755 Hobbs, NM 88241

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March 24, 1995

Penroc Oil Corp. Box 5970 Hobbs, NM 88241

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12222 Merit Drive, Suite 1500 Dallas, Texas 75251 (214) 701-8377 (214) 960-1252 Fax

March 24, 1995

Chevron USA Inc. 6400 S. Fiddler's Green Circle Englewood, CO 80111

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BC & D Operating P. O. Box 5926 Hobbs, NM 88241

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12222 Merit Drive. Suite 1500 Dallas, Texas 75251 (214) 701-8377 (214) 960-1252 Fax

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March 24, 1995

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12222 Merit Drive, Suite 1500 Dallas, Texas 75251 (214) 701-8377 (214) 960-1252 Fax

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March 24, 1995

Bettis Boyle & Stovall 505 5th Street P. O. Box 1240 Graham, TX 76450-1240

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12222 Merit Drive, Suite 1500 Dallas, Texas 75251 (214) 701-8377 (214) 960-1252 Fax

March 24, 1995

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March 24, 1995

Saba Energy Inc. 2112 Hurd Dr. Irving, TX 75038

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Santa Fe Energy 500 W. Illinois Midland, TX 79701

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12222 Merit Drive, Suite 1500 Dallas, Texas 75251 (214) 701-8377 (214) 960-1252 Fax

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Carr Well Service Inc. Box 69090 Odessa, TX 79767

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	<ul> <li>Complete items 1 and/or 2 for additional services.</li> </ul>	I also wish to receive the
	<ul> <li>Complete items 3, and 4a &amp; b.</li> <li>Print your name and address on the reverse of this form so that</li> </ul>	following services (for an extra g
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	Complete items 1 and/or 2 for additional services.	also wish to receive the
	Complete items 3, and 4a & b.	following services (for an extra
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	Attach this form to the front of the mailpiece, or on the back	k if space 1. 🗌 Addressee's Address
	2 does not permit.	
	. Write (Return Receipt Requested'' on the mailpiece below the a The Return Receipt will show to whom the article was delivered	I and the date 2. Bestricted Delivery
	6 delivered	Consult postmaster for fee.
		4a. Article Number
	Joe Melton Drlg. P. O. Box 4203	PO26810445
	Joe Melton Drlg.	4b. Service Type
	<b>S</b> P. O. Box 4203	Registered Insured
		Certified COD
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		8. Addressee's Address (Only if requested
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	6. Signature (Agent)	
	Raun ellen	
	PS Form 3811, December 1991 ± U.S.G.P.O.; 1992-3	07-530 DOMESTIC RETURN RECEIPT
	n en	
Cep	• Complete items 1 and/or 2 for additional services.	I also wish to receive the
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District IJ PO Drawer DD. Artesia. NM 88211-0719 OIL CONSERVATION DIVISION Submit to A District III PO Box 2088 1000 Rio Brazes Rd., Artec, NM 87410 Santa Fe, NM 87504-2088 District IV PO Box 1088, Santa Fe, NM 87504-2088 APPLICATION FOR PERMIT TO DRILL, RE-ENTER. DEEPEN, PLUGBACK. Merit Energy Company P.O. Drawer NN Ja1, NM 88252 Property Code 'Property Name Langlie Mattix Queens Unit Lease 7 Surface Location UL or lot no. Section Township Range Lot Ida Feet from the North/South line Feet from the East/										<sup>3</sup> OGRED Number <sup>3</sup> API Number 30 - 0 <sup>4</sup> Weil No. 45		
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# MERIT ENERGY COMPANY

Langlie Mattix #45 1220 FSL - 1320 FEL Unit P, Section 15-T25S-R37E Lea County, New Mexico

. The estimated top of geologic markers are as follows:

Base Red Beds	1000'
Top Salt	1090'
Yates	2820'
7-Rivers	2900'
Queen	3300'
Pemrose	3450'

1. The estimated depth at which anticipated water, oil and gas are expected to be encountered:

Water Surface to 500'

Oil and Gas Yates @ 2820' to Bottom Pemrose 3700'

2. Pressure Control Equipment: BOPE will be installed on the 8 5/8" casing and rated for 3000#. BOP systems will be consistent with API RP 53. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Blowout preventer controls will be installed prior to drilling the surface plug and will remain n use until the well is completed or abandoned. Preventors will be inspected and operated at least daily to ensure good nechanical working order, and this inspection recorded on the daily drilling report. See Exhibit B & B-1.

4. Auxiliary Equipment and proposed Casing Program:

A. Auxiliary Equipment: Kelly Cock, pit level indicators, flow sensor equipment, and a sub with full opening valve to fit drill pipe and collars will be available on rig floor in open position at all times for use when Kelly is not in use.

B. Casing and Cementing Program:

Hole Size: 11"Total Depth: 1050'Casing Size: 8 5/8"Setting Depth: 650'Mud Weight: 8.8 ppg

Casing Design:

O.D. Weight Grade Thread Coupling Interval Length 8 5/8" 24# J-55 8R ST & C 0-1050' 1050' Minimum Casing Design Factors: Collapse 1370, Burst 2950, Tensile Strength 3.81

Cement Program:

Lead Slurry: 550 sacks-Class Q with 2% CaCl2 1/4 lb per sack Cellophane Flake Expected Linear Fill: True Hole Volume-1089 feet Slurry Properties: Weight-12.8 ppg Yeild-1.98 cu.ft./sack

Hole Size: 7 7/8" Total Depth: 3700' Casing Size: 5 1/2" Setting Depth: 3700' Mud Weight: 8.7 ppg

Casing Design:

O.D. Weight Grade Thread Coupling Interval Length 5 1/2 15.5# J-55 8R LT & C 0-3700' 3700'

inglie Mattix #45 ige 2 of 2

inimum Casing Design Factors:

Collapse 40.40, Burst 48.10, Tensile Strength 2.17

ement Program:

Lead Slurry: 900 sacks Class "C" with .2% Calcium Cloride, 1/4# per sx Cello-Flake Calculated Linear Fill: True Hole Volume-3785.8. Slurry Properties: Weight-15.6 ppg Yeild-1.18 cu.ft./sack

Mud Program and Auxiliary Equipment: From 0 to 1050' (Minimum).

lud Weight: 8.6 ppg, Viscosity: 32 sec./1000 cc, Water Loss: N C cc, Mud Type:FW Gel/LCM. Mud will be checked urly by mud engineer. Sufficient quantities of mud will be kept on location to maintain minimum properties.

com 1050' to 3700' (Minimum Properties).

lud Weight: 10.2 ppg, Viscosity: 34-40 sec./1000cc, Water Loss: N/C cc. Mud Type: Brine, use salt water gel for ble sweeps. Mud will be checked tourly by mud engineer. Sufficient quantities of mud will be kept on location to aintain minimum properties.

Testing, Logging and Coring Program: Samples: Every 10' from surface casing to TD. DST's: Any tests will be based a the recommendations of the wellsite Geologist as warranted by drilling breaks and shows. Coring: None Anticipated ogging: CNL-FCD form TD to casing, with GR-CNL up to Yates @ 2820'.

Abnormal Conditions, Bottom Hole Pressure and Potential Hazards:

Anticipated BHP:

From: 0' to 1050' Anticipated Max. BHP: -0- PSI From: 1050' to 3700' Anticipated Max. BHP: 1000 PSI

bnormal Pressures Anticipated: None

ost Circulation Zones Anticipated: Possible lost circulation 1050' to 3700'. 2S Zones Anticipated: Yates 2820' 7-Rivers 2900', Queens 3300', Penrose 3450' faximum Bottom Hole Temperature: 104 degrees Fahrenheit

Anticipated starting date: As soon as possible after approval with the drilling time being approximately 10 days and ne completion time being another 12 days.

# MULTI-POINT SURFACE USE AND OPERATIONS PLAN Merit Energy Company Langlie Mattix #45 1220 FSL - 1320 FEL Unit P, Section 15-T25S-R37E Lea County, New Mexico

This plan is submitted with a Form 3160-3, Application for Permit to Drill, covering the above described well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of the surface disturbance involved and the procedures to be followed in rehabitating the surface after completion of the operations, so that a complete appraisal can be made of the environmental effect associated the the operations.

# 1. EXISTING ROADS:

Exhibit A is a portion of BLM map showing the well and roads in the vicinity for the proposed location. The proposed well site is located approximately 3 miles east of Jal, New Mexico and the access route to the location is indicated in Blue and Red on Exhibit A.

## 2. DIRECTIONS:

Go east of Jal, New Mexico on Highway 128 towards Andrews, Texas approximately 3 miles. Turn left(north) ontoblacktop. Go north for 1/2 mile to lease road. Turn left(west) and go approximately 1/2 mile. Turn south approximately 1000 feet on new road access on your left(west) then 600 feet to new well site.

### 3. PLANNED ACCESS ROAD:

A. The proposed new access will be approximately 600 feet in length from the point of origin to the Southwest edge of the drilling pad the road will lie in a easternly direction.

B. The new road will be 12 feet in width (driving surface) and will be adequately drained to control run-off and soil erosion.

C. The new road will be bladed with a drainage on one side. One traffic turnout will be built.

D. The route to location is visible.

#### 4. LOCATION OF EXISTING WELL:

A. There is no drilling activity within a one-mile radius of the well site.

B. Exhibit F shows existing wells within a one-mile radius of the proposed wellsite.

Multi-Point Surface Use and Operations Plan Langlie Mattix #45 Page 2 of 3

# 5. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

A. There are production facilities on this lease at the present time.

B. In the event that the well is productive the necessary production facilities will be installed to go to existing facilities. If the well is productive oil or gas, electric line will be ran to provide the necessary power. No power will be required if the well is productive gas.

### 6. LOCATION AND TYPE OF WATER SUPPLY:

A. It is planned to drill the proposed well with a fresh and brine water system. The water will be obtained from commercial sources and will be hauled to the location over the existing and proposed roads shown in Exhibit A.

# 7. SOURCE OF CONSTRUCTION MATERIALS:

Road & location will be built with material on location site.

## 8. METHODS OF HANDLING WASTE DISPOSAL:

A. Drill cutting will be disposed of in the reserve pits.

B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry.

C. Water produced during operations will be collected in tanks until hauled to an approved disposal system, or separate disposal application will be submitted.

D. Oil produced during operations will be stored in tanks until sold.

E. Current laws and regulations pertaining to the disposal of human waste will be complied with. Sanitary Port-O-Pottys will be provided during drilling operations, cleaned, sanitized, and/or replaced as necessary.

F. Trash, waste paper, garbage and junk will be contained to prevent scattering by the wind. Containment will be obtained by using covered trash bins. Then, hauled off to approved landfill in Lea County, New Mexico.

G. All trash and debris will be removed from the well site within 30 days after finishing drilling and/or completion operations.

# 9. WELL SITE LAYOUTS:

A. Exhibit C shows the relative location and dimensions of well pad, the reserve pits, the location of the drilling equipment, rig orientation and access road approach.

B. The reserve pits will be plastic lined.

C. A 200' x 200' area has been staked and flagged.

Multi-Point Surface Use and Operations Plan Langlie Mattix #45 Page 3 of 3

# **10.PLANS FOR RESTORATION:**

A. After finishing drilling and/or completion operations, all equipment and other material not needed for further operations will be removed. The location will be cleaned and all trash and junk to leave well site in as aesthetically a condition as possible.

B. Unguarded pits, if any, containing fluid will be fenced until they have dried and been levelled.

C. If the proposed well is non-productive, all rehabitation and/or vegetation requirements of the surfave land owner will be complied with and will be accomplished as expedient as possible. All pits will be filled level within 90 days after abandonment.

#### 11.SURFACE OWNERSHIP:

Private surface: owned by Johnny Mack Owen, Sr.

#### 12.0THER INFORMATION:

The primary surface use is for grazing.

### 13. OPERATOR'S REPRESENTATIVE:

A. Through A.P.D. Approval: Completions and Production: B. Through Drilling Operations,

Russell Whited, Prod Supt Merit Energy Company 118 West Nebraska Jal, New Mexico 88252 (505) 395-2173 Russell Whited, Prod Supt Merit Energy Company 118 West Nebraska Jal, New Mexico 88252 (505) 395-2173

## 14.CLARIFICATION:

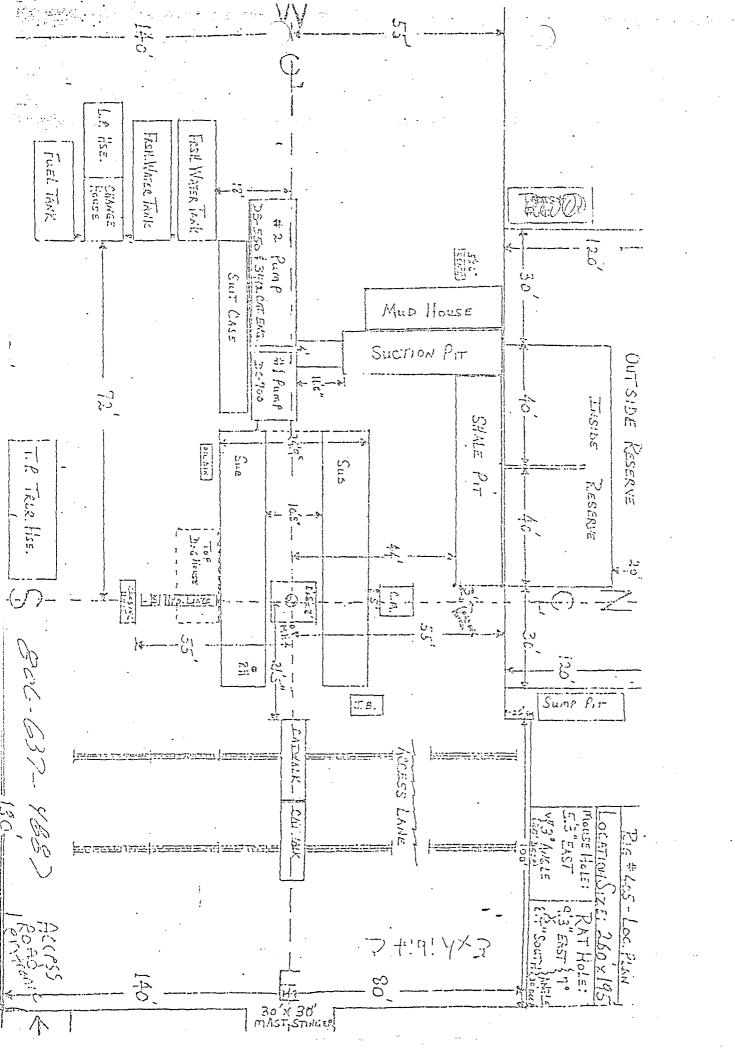
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions which presently exist; that the statements made in this plan are to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Merit Energy Company and its terms and conditions under which it is approved. This statement is subject to the provisions of U.S.C. 1001 for the filing of a false statement.

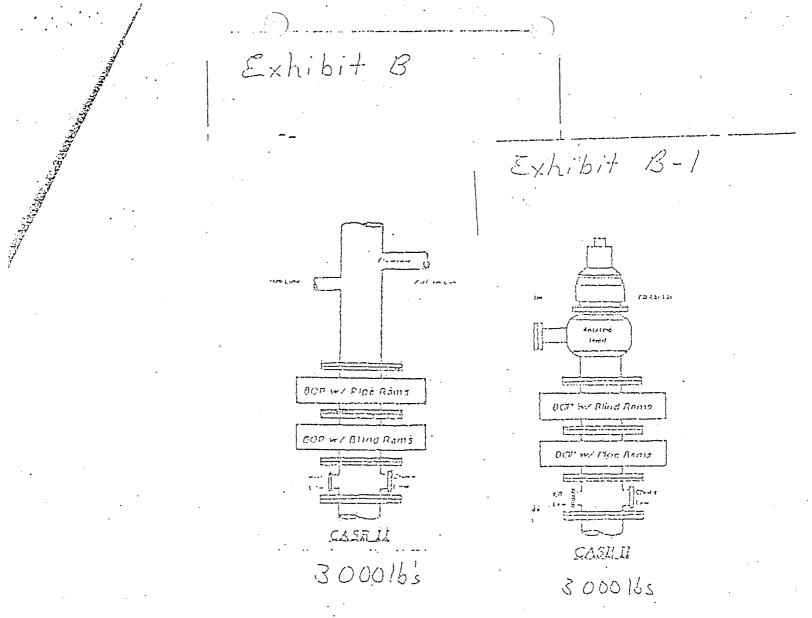
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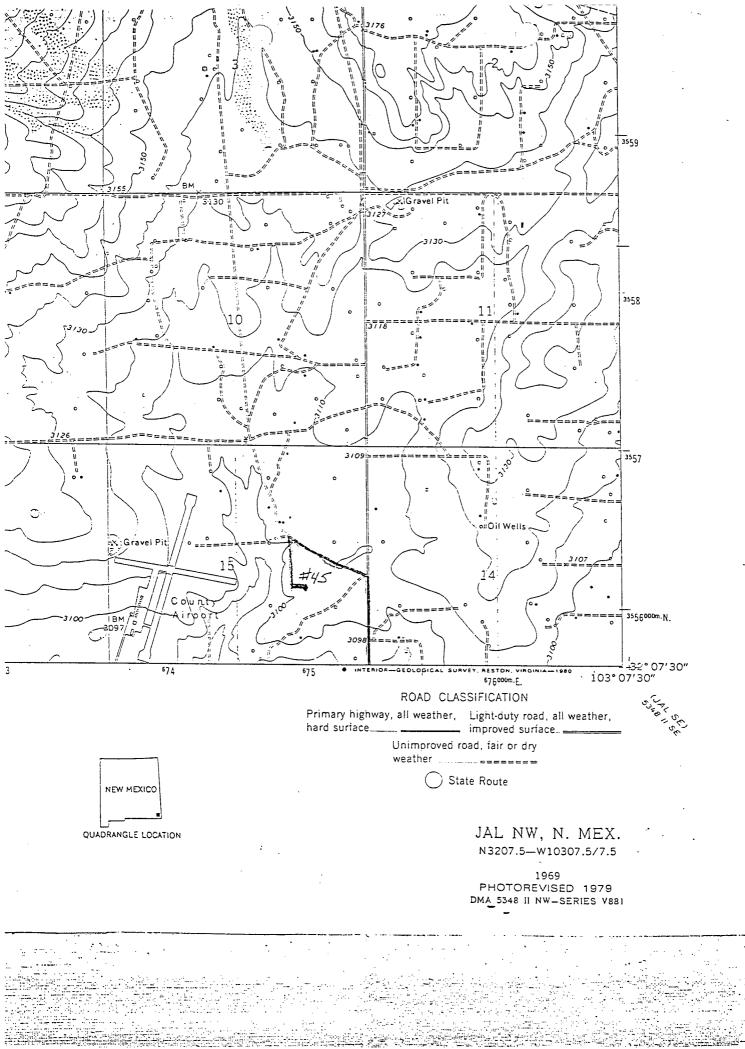
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Russell Whited West District, Production Superintendent





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DISTRICT I P.O. Box 1980, Hobbs, NM 88240

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DISTRICT III

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised February 10, 1994 Instruction on back 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

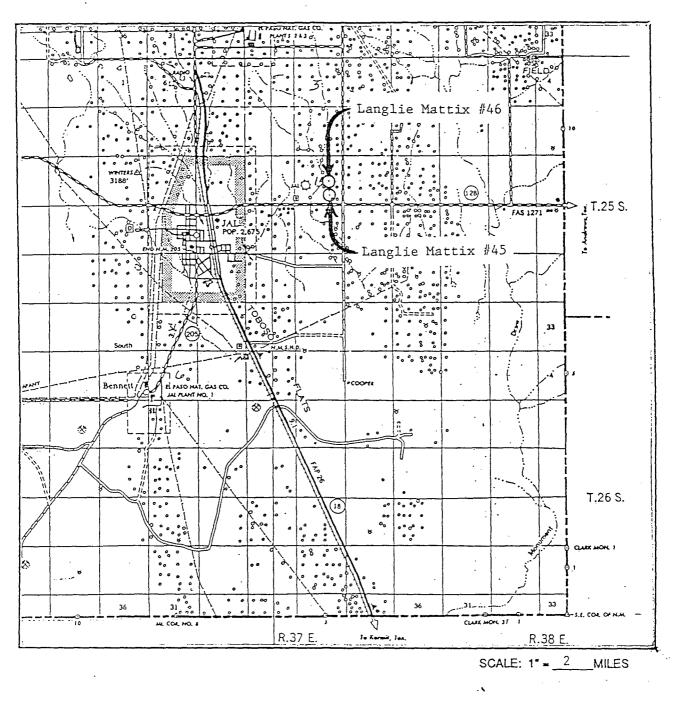
# WELL LOCATION AND ACREAGE DEDICATION PLAT

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		l								
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.
	Signature Sheryl J. Carruth Printed Name Regulatory Manager Title 4-19-95
	Date SURVEYOR CERTIFICATION
	I hereby certify that the well location shoun 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.
1300'	APRIL 06, 1995 Date surveyed. Emilia Signature. & Seal. of Chill Professional Surveyor 7
	Certificate No. WORNEW. WEST, 676

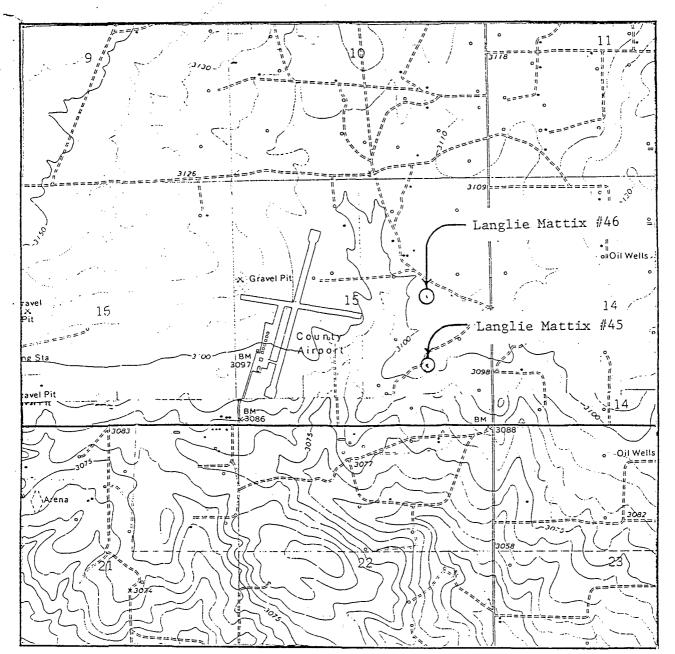
VICINITY MAP



- SEC. 15 TWP. 25 S RGE. 37 E
- SURVEY N.M.P.M.
- COUNTY Lea STATE NM
- DESCRIPTION\_\_\_
- ELEVATION\_\_\_\_
- OPERATOR Merit Energy CO.
- LEASE Langlie Mattix

# JOHN WEST ENGINEERING HOBBS, NEW MEXICO (505) 393-3117

LOLATION VERIFICATION MAP



SCALE: 1" = 2000'

SEC. 15 TWP. 25 S RGE 37 E

SURVEY N.M.P.M.

COUNTY Lea STATE NM

DESCRIPTION

ELEVATION\_

OPERATOR Merit Energy CO.

LEASE Langlie Mattix

U.S.G.S. TOPOGRAPHIC MAP

Jal NW

CONTOUR INTERVAL 10'

# JOHN WEST ENGINEERING HOBBS, NEW MEXICO \_ (505) 393-3117

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# MERIT ENERGY COMPANY

Langlie Mattix #46 2640 FSL - 1320 FEL Unit I, Section 15-T25S-R37E Lea County, New Mexico

1. The estimated top of geologic markers are as follows:

1000'
1090'
2820'
2900'
3300'
3450'

2. The estimated depth at which anticipated water, oil and gas are expected to be encountered:

Water Surface to 500'

Oil and Gas Yates @ 2820' to Bottom Penrose 3700'

3. Pressure Control Equipment: BOPE will be installed on the 8 5/8" casing and rated for 3000#. BOP systems will be consistent with API RP 53. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Blowout preventer controls will be installed prior to drilling the surface plug and will remain in use until the well is completed or abandoned. Preventors will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. See Exhibit B & B-1.

4. Auxiliary Equipment and proposed Casing Program:

A. Auxiliary Equipment: Kelly Cock, pit level indicators, flow sensor equipment, and a sub with full opening valve to fit drill pipe and collars will be available on rig floor in open position at all times for use when Kelly is not in use.

B. Casing and Cementing Program:

Hole Size: 12 1/4" Total Depth: 1050' Casing Size: 8 5/8" Setting Depth: 1050' Mud Weight: 8.8 ppg

Surface Casing Design:

O.D. Weight Grade Thread Coupling Interval Length 8 5/8" 24# J-55 8R ST & C 0-1050' 1050' Minimum Casing Design Factors: Collapse 1370, Burst 2950, Tensile Strength 3.81

Cement Program:

Lead Slurry: 550 sacks-Class A with 2% CaCl2 1/4 lb per sack Cellophane Flake Expected Linear Fill: True Hole Volume-1089 feet Slurry Properties: Weight-12.8 ppg Yeild-1.98 cu.ft./sack

Hole Size: 7 7/8" Total Depth: 3700' Casing Size: 5 1/2" Setting Depth: 3700' Mud Weight: 8.7 ppg

Casing Design:

O.D. Weight Grade Thread Coupling Interval Length 5 1/2 15.5# J-55 8R LT & C 0-3700' 3700'

Langlie Mattix #46 Page 2 of 2

Minimum Casing Design Factors: Collapse 40.40, Burst 48.10, Tensile Strength 2.17

Cement Program:

Lead Slurry: 700 sacks Class "C" with .2% Calcium Cloride, 1/4# per sx Cello-Flake Calculated Linear Fill: True Hole Volume-3785.8. Slurry Properties: Weight-15.6 ppg Yeild-1.18 cu.ft./sack

5. Mud Program and Auxiliary Equipment: From 0 to 1050' (Minimum).

Mud Weight: 8.6 ppg, Viscosity: 32 sec./1000 cc, Water Loss: N C cc, Mud Type:FW Gel/LCM. Mud will be checked tourly by mud engineer. Sufficient quantities of mud will be kept on location to maintain minimum properties.

From 1050' to 3700' (Minimum Properties).

Mud Weight: 10.2 ppg, Viscosity: 34-40 sec./1000cc, Water Loss: N/C cc. Mud Type: Brine, use salt water gel for hole sweeps. Mud will be checked tourly by mud engineer. Sufficient quantities of mud will be kept on location to maintain minimum properties.

6. Testing, Logging and Coring Program: Samples: Every 10' from surface casing to TD. DST's: Any tests will be based on the recommendations of the wellsite Geologist as warranted by drilling breaks and shows. Coring: None Anticipated Logging: CNL-FCD form TD to casing, with GR-CNL up to Yates @ 2820'.

7. Abnormal Conditions, Bottom Hole Pressure and Potential Hazards: Anticipated BHP:

From: 0' to 1050' Anticipated Max. BHP: -0- PSI From: 1050' to 3700' Anticipated Max. BHP: 1000 PSI

Abnormal Pressures Anticipated: None

Lost Circulation Zones Anticipated: Possible lost circulation 1050' to 3700'. H2S Zones Anticipated: Yates 2820' 7-Rivers 2900', Queens 3300', Penrose 3450' Maximum Bottom Hole Temperature: 104 degrees Fahrenheit

8. Anticipated starting date: As soon as possible after approval with the drilling time being approximately 10 days and the completion time being another 12 days.

# MULTI-POINT-SURFACE USE AND OPERATIONS PLAN Merit Energy Company Langlie Mattix #46 2640' FSL - 1320' FEL Unit I Section 15-T25S-R37E Lea County, New Mexico

This plan is submitted with a Form 3160-3, Application for Permit to Drill, covering the above described well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of the surface disturbance involved and the procedures to be followed in rehabitating the surface after completion of the operations, so that a complete appraisal can be made of the environmental effect associated the the operations.

## 1. EXISTING ROADS:

Exhibit A is a portion of BLM map showing the well and roads in the vicinity for the proposed location. The proposed well site is located approximately 3 miles east of Jal, New Mexico and the access route to the location is indicated in Blue and Red on Exhibit A.

## 2. DIRECTIONS:

Go east of Jal, New Mexico on Highway 128 towards Andrews, Texas approximately 3 miles. Turn left(north) ontoblacktop. Go north for 1/2 mile to lease road. Turn left(west) and go approximately 1/2 mile. Turn south approximately 1000 feet on new road access on your left(west) then 600 feet to new well site.

# 3. PLANNED ACCESS ROAD:

A. The proposed new access will be approximately 600 feet in length from the point of origin to the Southwest edge of the drilling pad the road will lie in a easternly direction.

B. The new road will be 12 feet in width (driving surface) and will be adequately drained to control run-off and soil erosion.

C. The new road will be bladed with a drainage on one side. One traffic turnout will be built.

D. The route to location is visible.

### 4. LOCATION OF EXISTING WELL:

A. There is no drilling activity within a one-mile radius of the well site.

B. Exhibit F shows existing wells within a one-mile radius of the proposed wellsite.

# 5. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

A. There are production facilities on this lease at the present time.

B. In the event that the well is productive the necessary production facilities will be installed to go to existing facilities. If the well is productive oil or gas, electric line will be ran to provide the necessary power. No power will be required if the well is productive gas.

# 6. LOCATION AND TYPE OF WATER SUPPLY:

A. It is planned to drill the proposed well with a fresh and brine water system. The water will be obtained from commercial sources and will be hauled to the location over the existing and proposed roads shown in Exhibit A.

## 7. SOURCE OF CONSTRUCTION MATERIALS:

Road & location will be built with material on location site.

# 8. METHODS OF HANDLING WASTE DISPOSAL:

A. Drill cutting will be disposed of in the reserve pits.

B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry.

C. Water produced during operations will be collected in tanks until hauled to an approved disposal system, or separate disposal application will be submitted.

D. Oil produced during operations will be stored in tanks until sold.

E. Current laws and regulations pertaining to the disposal of human waste will be complied with. Sanitary Port-O-Pottys will be provided during drilling operations, cleaned, sanitized, and/or replaced as necessary.

F. Trash, waste paper, garbage and junk will be contained to prevent scattering by the wind. Containment will be obtained by using covered trash bins. Then, hauled off to approved landfill in Lea County, New Mexico.

G. All trash and debris will be removed from the well site within 30 days after finishing drilling and/or completion operations.

## 9. WELL SITE LAYOUTS:

A. Exhibit C shows the relative location and dimensions of well pad, the reserve pits, the location of the drilling equipment, rig orientation and access road approach.

B. The reserve pits will be plastic lined.

C. A 200' x 200' area has been staked and flagged.

Multi-Point Surface Use and Operations Plan Langlie Mattix #46 Page 3 of 3

# 10.PLANS FOR RESTORATION:

A. After finishing drilling and/or completion operations, all equipment and other material not needed for further operations will be removed. The location will be cleaned and all trash and junk to leave well site in as aesthetically a condition as possible.

B. Unguarded pits, if any, containing fluid will be fenced until they have dried and been levelled.

C. If the proposed well is non-productive, all rehabitation and/or vegetation requirements of the surfave land owner will be complied with and will be accomplished as expedient as possible. All pits will be filled level within 90 days after abandonment.

## 11.SURFACE OWNERSHIP:

Private surface: owned by Johnny Mack Owen, Sr.

### 12.0THER INFORMATION:

The primary surface use is for grazing.

#### 13. OPERATOR'S REPRESENTATIVE:

A. Through A.P.D. Approval: Completions and Production: B. Through Drilling Operations,

Russell Whited, Prod Supt Merit Energy Company 118 West Nebraska Jal, New Mexico 88252 (505) 395-2173 Russell Whited, Prod Supt Merit Energy Company 118 West Nebraska Jal, New Mexico 88252 (505) 395-2173

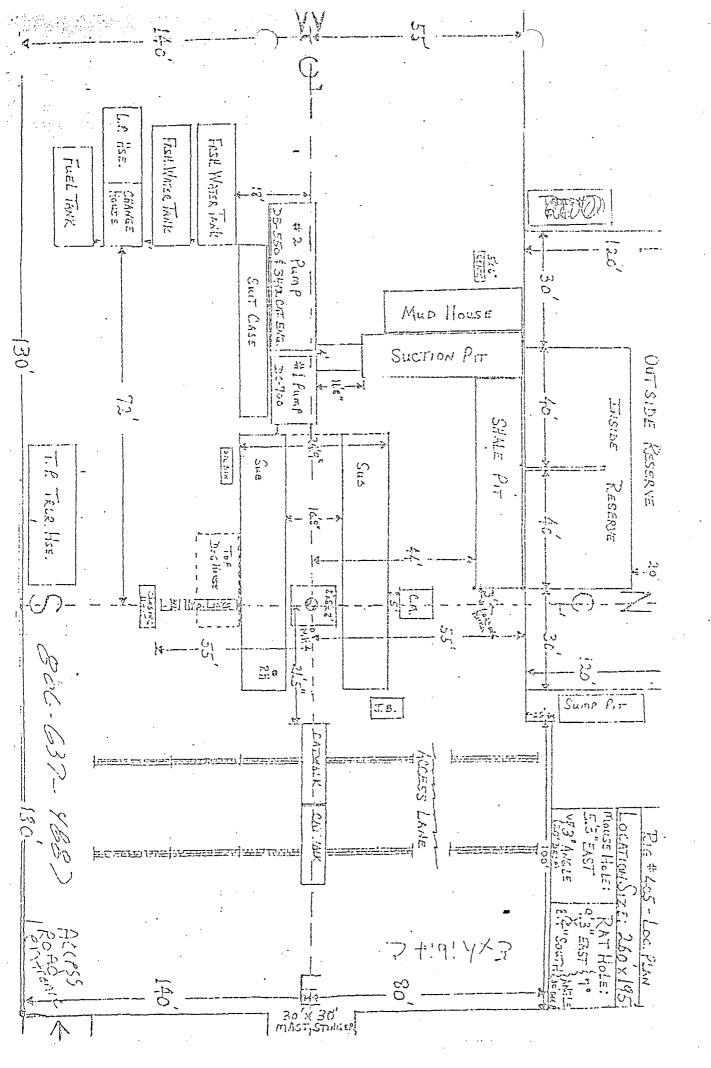
### 14.CLARIFICATION:

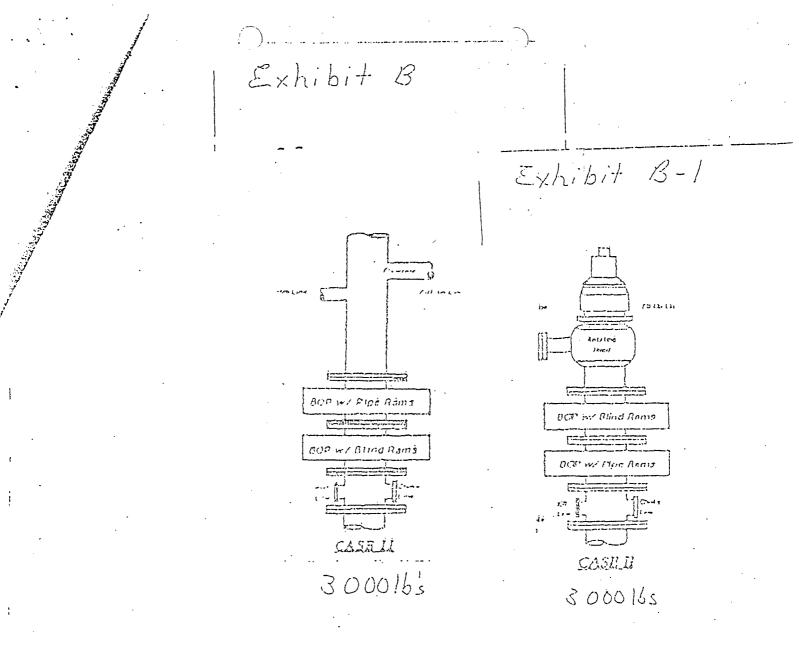
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions which presently exist; that the statements made in this plan are to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Merit Energy Company and its terms and conditions under which it is approved. This statement is subject to the provisions of U.S.C. 1001 for the filing of a false statement.

3-2-94

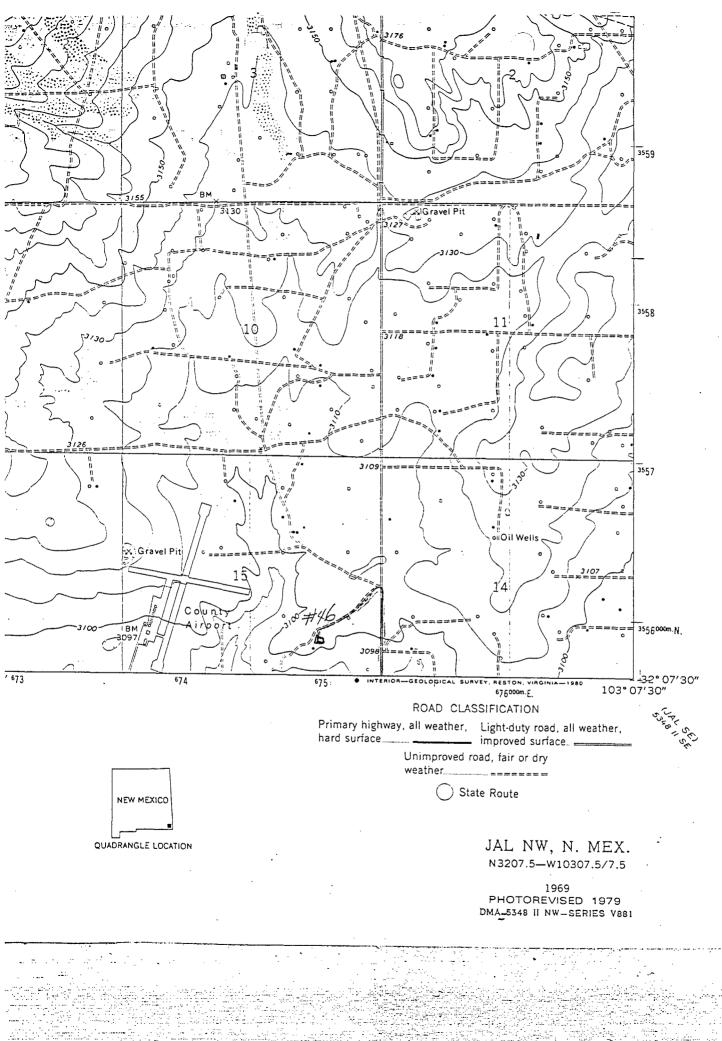
Date

Russell Whited West District, Production Superintendent





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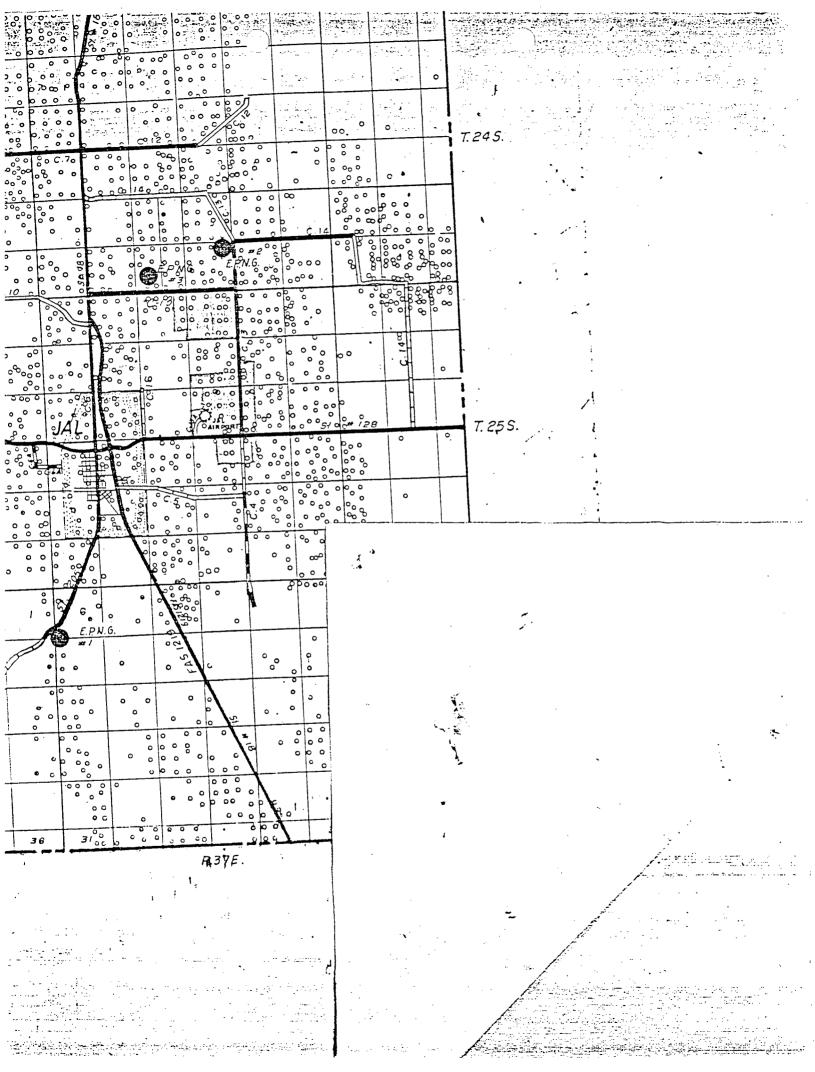


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DISTRICT I P.O. Box 1980, Hobbs, NM 88240

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 State of New Mexico

Energy, Minerals and Natural Resources Department

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

# OIL CONSERVATION DIVISION

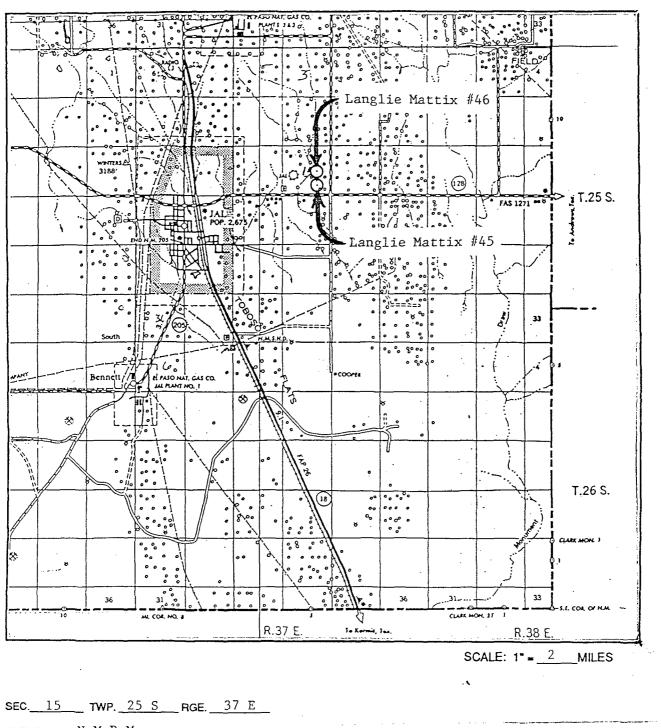
P.O. Box 2088 Santa Fe, New Mexico 87504-2088

□ AMENDED REPORT

# WELL LOCATION AND ACREAGE DEDICATION PLAT

API	Number	Pool Code Pool Name										
Property (	Code				Prop	erty Nam	e		Well Nu	ımber		
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				MER			COMPANY		310	5'		
<b></b>					Surfac	ee Loca	ation		,			
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UL or lot No.	Section	Township	Range	Lot Idn	Feet fro	om the	North/South line	Feet from the	East/West line	County		
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VICINITY MAP



SURVEY\_\_\_\_N.M.P.M.

COUNTY\_\_\_Lea\_\_\_STATE\_NM

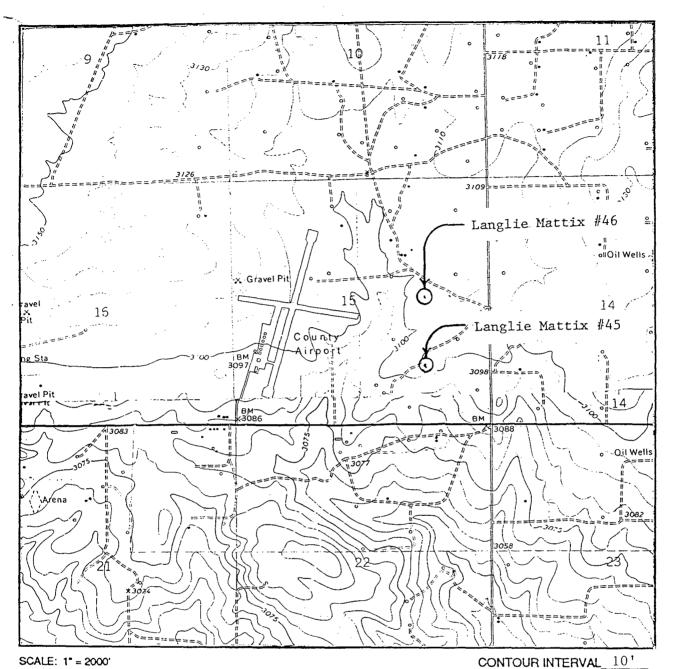
DESCRIPTION\_

ELEVATION\_\_\_

OPERATOR	Merit	Energy	со.
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LEASE\_\_\_Langlie Mattix

JOHN WEST ENGINEERING HOBBS, NEW MEXICO (505) 393-3117 LOCATION VERIFICATION TAP



SCALE: 1" = 2000"

SEC. 15 TWP. 25 S RGE. 37 E SURVEY N.M.P.M. COUNTY Lea STATE NM DESCRIPTION ELEVATION OPERATOR Merit Energy CO. LEASE Langlie Mattix U.S.G.S. TOPOGRAPHIC MAP

Jal NW

JOHN WEST ENGINEERING HOBBS, NEW MEXICO \_(505) 393-3117



ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION 2040 S. PACHECO SANTA FE, NEW MEXICO 87505 (505) 827-7131

April 4, 1995

Merit Energy Company 12,222 Merit Drive - Suite 1500 Dallas, Texas 75251

Attention: Sheryl J. Carruth

RE: Application for Unorthodox Oil Well Locations Langlie Mattix Queen Unit Well Nos. 45 and 46 Section 15, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico.

Dear Ms. Carruth:

Your application dated March 24, 1995 for the two referenced infill wells are being returned at this time. Division General Rule 104.F(1) provides for a minimum 10 foot separation off of quarter-quarter section lines for wells in a waterflood project, this is necessary for well location/description purposes. As stated in your application both wells are to be restaked, therefore correct applications can be resubmitted with the proper information.

The application for the Humphrey Queen Unit Well No. 35 will be processed accordingly.

Should you have any additional questions or comments concerning this matter, please contact me at (505) 827-8185.

Sincerely,

Michael E. Stogner Chief Hearing Officer/Engineer

MES/kv

cc: Oil Conservation Division - Hobbs William J. LeMay, Director - OCD, Santa Fe



STATE OF N W MEXICO ENERGY, MINERALS AND NITURAL RESOURCES DEPARTMENT

OIL CONSURVITION DIVISION 2005 - PACHECO SANTA F. NEW MEXICO 87505 051 8/-7131

April 4, 1995

Merit Energy Company 12,222 Merit Drive - Suite 1500 Dallas, Texas 75251

Attention: Sheryl J. Carruth

Administrative Order NSL-3513

Dear Ms. Carruth:

Reference is made to your application dated March 24, 1995 for a non-standard oil well location for the purpose of completing an efficient production/injection pattern within the (Mobil) Langlie Mattix Humphrey Waterflood Project Area, established by Division Order No. R-3824, dated September 4, 1969.

It is our understanding that the proposed Humphrey Queen Unit Well No. 35 is to be drilled 2362 feet from the North line and 2488 feet from the East line (Unit G) of Section 3, Township 25 South, Range 37 East, NMPM, Langlie-Mattix Pool, Humphrey Queen Unit, Lea County, New Mexico.

Said well to be dedicated to the existing standard 40-acre oil spacing and proration unit comprising the SW/4 NE/4 of said Section 3 which is currently dedicated to the Humphrey Queen Unit Well No. 10 (API No. 30-025-11424), located at a standard oil well location 1650 feet from the North and East lines of said Section 3.

By the authority granted me under the provisions of General Rule 104 F(1), the above-described unorthodox oil well location is hereby approved.

Sincerely, William J. Director WJL/MES/kv

cc: Oil Conservation Division - Hobbs

SECTION IV

(EUNICE-MONUMENT (GRAYBURG-SAN ANDRES) (TEXACO EUNICE-MONUMENT WATERFLOOD)

POOLS - Cont'd.)

Texaco Inc. New Mexico "C" State (NCT-2) Well No. 7, Unit G, Section 19

Texaco Inc. New Mexico "H" State (NCT-3) Well No. 18, Unit C, Section 19

Texaco Inc. New Mexico "H" State (NCT-3) Well No. 14, Unit E, Section 19

Texaco Inc. New Mexico "H" State (NCT-4) Well No. 21, Unit K, Section 19

Texaco Inc. New Mexico "H" State (NCT-4) Well No. 9, Unit M, Section 19

Gulf Oil Corporation R. A. Butler Well No. 1, Unit O, Section 19 Texaco Inc. New Mexico "H" State (NCT-2) Well No. 3, Unit A, Section 20

Texaco Inc. New Mexico "H" State (NCT-2) Well No. 15, Unit G, Section 20

Texaco Inc. New Mexico "H" State (NCT-2) Well No. 7, Unit C, Section 20

Texaco Inc. New Mexico "H" State (NCT-2) Well No. 22, Unit E, Section 20

Texaco Inc. New Mexico "H" State (NCT-2) Well No. 16, Unit K, Section 20

Texaco Inc. New Mexico "H" State (NCT-2) Well No. 13, Unit M, Section 20

Atlantic Richfield W. C. Roach Weil No. 2, Unit C, Section 21 Atlantic Richfield W. C. Roach Weil No. 3, Unit E, Section 21 Sun Oil Co. DX Division A. B. Reeves Well No. 3, Unit C, Section 29

Phillips Petroleum Company Mexico State Well No. 1, Unit A, Section 30

(2) That the subject waterflood project is hereby designated the Texaco Eunice-Monument Unit Waterflood Project and shall be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations;

PROVIDED HOWEVER, that the Secretary-Director of the Commission may approve expansion of the Texaco Eunice-Monument Unit Waterflood Project to include such additional lands and injection wells in the area of said project as may be necessary to complete an efficient water injection pattern; that the showing of well response as required by Rule 701 E-5 shall not be necessary before obtaining administrative approval for the conversion of additional wells to water injection,

(3) That monthly progress reports of the waterflood project herein authorized shall be submitted to the Commission in accordance with Rules 704 and 1120 of the Commission Rules and Regulations,

(4) That Order No. R-3398 which previously authorized one water injection well in the subject area is hereby superseded.

(5) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

#### LANGLIE-MATTIX POOL (Humphrey Queen Unit Waterflood) Lea County, New Mexico

Order No. R-3824, Authorizing Mobil Oil Corporation to Institute a Waterflood Project in the Humphrey Queen Unit Area, Langlie-Mattix Pool, Lea County, New Mexico, September 4, 1969, as Amended by Order No. R-3824-A, March 2, 1970.

Application of Mobil Oil Corporation for a Waterflood Project and Unorthodox Injection Well Locations, Lea County, New Mexico.

> CASE NO. 4204 Order No. R-3824

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#### ORDER OF THE COMMISSION

BY THE COMMISSION: This cause came on for hearing at 9 a.m. on August 27, 1969, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 4th day of September, 1969, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Mobil Oil Corporation, seeks permission to institute a waterflood project in the Humphrey Queen Unit Area, Langlie-Mattix Pool, by the injection of water into the Queen sand formation through 11 injection wells at orthodox and unorthodox locations in Sections 3 and 4, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico.

(3) That the applicant further seeks the establishment of an administrative procedure whereby the Secretary-Director of the Commission may authorize additional injection wells at orthodox and unorthodox locations within said waterflood project area as may be necessary to complete an efficient injection pattern without the necessity of showing well response.

(4) That the wells in the project area are in an advanced state of depletion and should properly be classified as "stripper" wells.

(5) That the proposed waterflood project should result in the recovery of otherwise unrecoverable oil, thereby preventing waste.

(6) That the subject application should be approved and the project should be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations; provided

#### (LANGLIE-MATTIX (HUMPHREY QUEEN UNIT WATERFLOOD) POOL - Cont'd.)

however, that the showing of well response as required by Rule 701 E-5 shall not be necessary before obtaining administrative approval for the conversion of additional wells to water injection, and provided further, that said injection wells are drilled no closer than 330 feet to the outer boundary of the Humphrey Queen Unit nor closer than 10 feet to any quarterquarter section or subdivision inner boundary.

#### IT IS THEREFORE ORDERED:

(1) (As Amended by Order No. R-3824-A, March 2, 1970.) That the applicant, Mobil Oli Corporation, is hereby authorized to institute a waterflood project in the Humphrey Queen Unit Area, Langlie-Mattix Pool, by the injection of Water into the Queen sand formation through the following-described wells at orthodox and unorthodox locations in Township 25 South, Range 37 East, NMPM, Lea County, New Mexico:

#### Unit Well

No.	Previous Well Name and Number	Unit	Section
2	Mobil-Liberty Well No. 1	D	3
4	Mobil-Humphrey "A" Well No. 1	B	3
6	Mobil-Fristoe Well No. 6	Ā	3
9	Mobil-Humphrey "A" Well No. 4	F	3
15	Mobil-Liberty Well No. 5	Ĺ	3
17	Mobil-Humphrey "A" Well No. 5	J	3
19	Mobil-Fristoe Well No. 7	Ĩ	3
23	Mobil-Humphrey "A" Well No. 9	ō	3
20	To be drilled - 100' FSL & 5' FWL	-	3
7	Mobil-Smith Well No. 2	н	4
13	To be drilled - 1500' FSL		-
	& 1220' FEL		4

(2) That the subject waterflood project is hereby designated the Mobil Langlie Mattix Humphrey Waterflood Project and shall be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations;

Commission Rules and Regulations; PROVIDED HOWEVER, that the Secretary-Director of the Commission may approve such additional injection wells at orthodox and unorthodox locations within said waterflood project area as may be necessary to complete an efficient injection pattern; provided said wells are drilled no closer than 330 feet to the outer boundary of the Humphrey Queen Unit nor closer than 10 feet to any quarter-quarter section or subdivision inner boundary, and provided further, that the application therefor has been filed in accordance with Rule 701 B of the Commission Rules and Regulations, and provided further, that a copy of the application has been sent to all offset operators, if any there be, and no such operator has objected within 15 days. The showing of well response as required by Rule 701 E-5 shall not be necessary before obtaining administrative approval for the conversion of additional wells to water injection.

(3) That monthly progress reports of the waterflood project herein authorized shall be submitted to the Commission in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.

(4) That that portion of Order No. R-3426, dated June 5, 1968, which approved certain of the above wells as water injection wells is hereby superseded.

(5) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary. DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

#### SECTION IV

New Mexico Page

#### LANGLIE-MATTIX POOL (Langlie-Mattix Queen Unit Waterflood) Lea County, New Mexico

Order No. R-3823, Authorizing Mobil Oil Corporation to Institute a Waterflood Project in the Langlie-Mattix Queen Unit Area, Langlie-Mattix Pool, Lea County, New Mexico, September 4, 1969.

Application of Mobil Oil Corporation for a a Waterflood Project and Unorthodox Injection Well Locations, Lea County, New Mexico.

> CASE NO. 4202 Order No. R-3823

#### ORDER OF THE COMMISSION

BY THE COMMISSION: This cause came on for hearing at 9 a.m. on August 27, 1969, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 4th day of September, 1969, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Mobil Oil Corporation, seeks permission to institute a waterflood project in the Langlie Mattix Queen Unit Area, Langlie-Mattix Pool, by the injection of water into the Queen sand formation through 17 injection wells at orthodox and unorthodox locations in Sections 10, 11, 14, 15, 22, and 23, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico.

(3) That the applicant further seeks the establishment of an administrative procedure whereby the Secretary-Director of the Commission may authorize additional injection wells at orthodox and unorthodox locations within said waterflood projecarea as may be necessary to complete an efficient injection pattern without the necessity of showing well response.

(4) That the wells in the project area are in an advanced state of depletion and should properly be classified as "stripper" wells.

(5) That the injection of water through a well proposed to be drilled 660 feet from the North line and 1220 feet from th West line of said Section 14 may cause waste and may violat the correlative rights of the offset operator to the east of th proposed location.

(6) That the applicant's request to drill an injection we 660 feet from the North line and 1220 feet from the West lin of said Section 14 should be denied. Mike Stogner

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From:Mike StognerTo:Bonnie PrichardSubject:Merit Energy Co.Date:Wednesday, May 03, 1995 4:39PM

Can I have you "fax" to me C-101's and C-102's for a couple of proposed wells in the Langlie Mattix Queen Unit in Section 15, T-25S-R37E:

Well No. 45 - in Unit P

Well No. 46 - in Unit I

8

State of New Mexico ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

Santa Fe, New Mexico 87505



## **OIL CONSERVATION DIVISION**

DRUG FRFF

May 12, 1995

Merit Energy Company 12,222 Merit Drive - Suite 1500 Dallas, Texas 75251

Attention: Sheryl J. Carruth

RE: Application for Unorthodox Oil Well Locations Langlie Mattix Queen Unit Well Nos. 45 and 46 Section 15, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico.

Dear Ms. Carruth:

So that I may begin processing the applications for the two subject wells please provide copies of the amended NMOCD Forms C-101 and C-102 showing the locations for the two wells to be:

Langlie Mattix Queen Unit well No. 45 1220'FSL & 1300'FEL (Unit P); and,

Langlie Mattix Queen Unit well No. 46 2620'FSL & 1300'FEL (UnitI).

Should you have any additional questions or comments concerning this matter, please contact me at (505) 827-8185.

Sincerely

Michael E. Stogner Chief Hearing Officer/Engineer

MES/kv

cc: Oil Conservation Division - Hobbs William J. LeMay, Director - OCD, Santa Fe

VILLAGRA BUILDING - 408 Galisteo Forestry and Resources Conservation Division P.O. Box 1948 87504-1948 827-5830 Park and Recreation Division P.O. Box 1147 87504-1147 827-7465

Office of the Secretary 827-5950 Administrative Services 827-5925 Energy Conservation & Management 827-5900 Mining and Minerals 827-5970 Oil Conservation 827-7131

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7 7/8	5.5	15.5	3700	700sx Class C	Surface
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Mud Program FW to 1050', cut Brine to 3700'.

BOPE Program: BOPE will be installed at the offset and tested daily for operational conditions.

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Signatures Russell White	Approved by:					
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STATE OF NEW MEXICO OIL CONSERVATION DIVISION

To: Mike Stogner:
TROM: Bornie Frichard
DATE: 5/12/95
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MMOCD FAX NUMBER: (505) 393-0720 IF YOU DO NOT RECEIVE A TRANSMISSION, CALL (506) 393-6161

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## LANGLIE MATTIX (QUEEN) UNIT AREA

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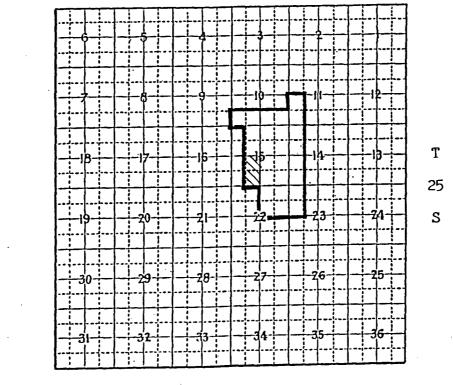
APPROVED: September 30, 1969 EFFECTIVE: Ocrtober 1, 1969

WATERFLOOD

100 Feet Above Base of Seven Rivers to Base of Queen Formation

Lea County, New Mexico

Mobil Producing Texas and New Mexico, Inc., Operator



R 37 E

Unit Lands

petroleum engineering and government regulation consultants

gulram, inc.

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Federal	120.00	acres
Fee	920.00	acres
Total	1.040.00	acres

Ill-Lands Added, Effective May 1, 1970, - 80.00 acres

Unit Lands

Federal 200.00 acres Fee 920.00 acres Total 1,120.00 acres

87-1

### (LANGLIE-MATTIX (HUMPHREY QUEEN UNIT WATERFLOOD) POOL - Cont<sup>4</sup>d.)

however, that the showing of well response as required by Rule 701 E-5 shall not be necessary before obtaining administrative approval for the conversion of additional wells to water injection, and provided further, that said injection wells are drilled no closer than 330 feet to the outer boundary of the Humphrey Queen Unit nor closer than 10 feet to any quarterquarter section or subdivision inner boundary.

IT IS THEREFORE ORDERED:

(1) (As Amended by Order No. R-3824-A, March 2, 1970.)
That the applicant, Mobil Oil Corporation, is hereby authorized to institute a waterflood project in the Humphrey Queen Unit Area, Langlie-Mattix Pool, by the injection of Water into the Queen sand formation through the following-described wells at orthodox and unorthodox locations in Township 25 South, Range 37 East, NMPM, Lea County, New Mexico:

### Unit Well

No.	Previous Well Name and Number	Unit	Section
2	Mobil-Liberty Well No. 1	D	3
4	Mobil-Humphrey "A" Well No. 1	в	3
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23	Mobil-Humphrey "A" Well No. 9	0	3
20	To be drilled - 100' FSL & 5' FWL		3
7	Mobil-Smith Well No. 2	н	4
13	To be drilled - 1500' FSL		-
	& 1220' FEL		4

(2) That the subject waterflood project is hereby designated the Mobil Langlie Mattix Humphrey Waterflood Project and shall be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations;

PROVIDED HOWEVER, that the Secretary-Director of the Commission may approve such additional injection wells at orthodox and unorthodox locations within said waterflood project area as may be necessary to complete an efficient injection pattern; provided said wells are drilled no closer than 330 feet to the outer boundary of the Humphrey Queen Unit nor closer than 10 feet to any quarter-quarter section or subdivision inner boundary, and provided further, that the application therefor has been filed in accordance with Rule 701 B of the Commission Rules and Regulations, and provided further, that a copy of the application has been sent to all offset operators, if any there be, and no such operator has objected within 15 days. The showing of well response as required by Rule 701 E-5 shall not be necessary before obtaining administrative approval for the conversion of additional wells to water injection.

(3) That monthly progress reports of the waterflood project herein authorized shall be submitted to the Commission in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.

(4) That that portion of Order No. R-3426, dated June 5, 1968, which approved certain of the above wells as water injection wells is hereby superseded.

(5) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary. DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

### LANGLIE-MATTIX POOL (Langlie-Mattix Queen Unit Waterflood) Lea County, New Mexico

Order No. R-3823, Authorizing Mobil Oil Corporation to Institute a Waterflood Project in the Langlie-Mattix Queen Unit Area, Langlie-Mattix Pool, Lea County, New Mexico, September 4, 1969.

Application of Mobil Oil Corporation for a a Waterflood Project and Unorthodox Injection Well Locations, Lea County, New Mexico.

> CASE NO. 4202 Order No. R-3823

### ORDER OF THE COMMISSION

BY THE COMMISSION: This cause came on for hearing at 9 a.m. on August 27, 1969, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 4th day of September, 1969, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Mobil Oil Corporation, seeks permission to institute a waterflood project in the Langlie Mattix Queen Unit Area, Langlie-Mattix Pool, by the injection of water into the Queen sand formation through 17 injection wells at orthodox and unorthodox locations in Sections 10, 11, 14, 15, 22, and 23, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico.

(3) That the applicant further seeks the establishment of an administrative procedure whereby the Secretary-Director of the Commission may authorize additional injection wells at orthodox and unorthodox locations within said waterflood project area as may be necessary to complete an efficient injection pattern without the necessity of showing well response.

(4) That the wells in the project area are in an advanced state of depletion and should properly be classified as "stripper" wells.

(5) That the injection of water through a well proposed to be drilled 660 feet from the North line and 1220 feet from the West line of said Section 14 may cause waste and may violate the correlative rights of the offset operator to the east of the proposed location.

(6) That the applicant's request to drill an injection well 660 feet from the North line and 1220 feet from the West line of said Section 14 should be denied.

### (LANGLIE-MATTIX (LANGLIE-MATTIX QUEEN UNIT WATERFLOOD) POOL - Cont<sup>2</sup>d)

(7) That, subject to Finding No. 6, the proposed waterflood project should result in the recovery of otherwise unrecoverable oil, thereby preventing waste.

(8) That, subject to Finding No. 6, the subject application should be approved and the project should be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations; provided however, that the showing of well response as required by Rule 701 E-5 shall not be necessary before obtaining administrative approval for the conversion of additional wells to water injection, and provided further, that said injection wells are drilled no closer than 330 feet to the outer boundary of the Langlie Mattix Queen Unit nor closer than 10 feet to any quarter-quarter section or subdivision inner boundary.

IT IS THEREFORE ORDERED:

(1) That the applicant, Mobil Oil Corporation, is hereby authorized to institute a waterflood project in the Langlie Mattix Queen Unit Area, Langlie-Mattix Pool, by the injection of water into the Queen sand formation through the followingdescribed wells at orthodox and unorthodox locations in Township 25 South, Range 37 East, NMPM, Lea County, New Mexico:

Unit Well

Juit Men			
No.	Previous Well Name and Number	Unit	Section
7 3	Mobil-Stuart Tr. 1 Well No. 2	Р	10
3	To be drilled - 990' FSL		
-	& 890' FWL		10
2	To be drilled - 1440' FSL		
	& 1220' FWL	_	11
13	Mobil-Stuart Tr. 5 Well No. 1	D	14
21	Pan American-Langlie "B"		
	Well No. 4	L	14
27	Pan American-Langlie "B"		,
	Well No. 3	М	14
11	Mobil-Stuart Tr. 9 Well No. 1	в	15
17	Mobil-Stuart Tr. 9 Well No. 4	H	15
19	Gulf-Westfall Well No. 2	J	15
25	Gulf-Elliott Well No. 1	J P	15
15	To be drilled - 1980' FNL	-	
	& 1730' FWL		15
30	Mobil-Stuart Comm. Well No. 1	A	22
28	To be drilled - 500' FNL	~	
	& 2540' FEL		22
32	To be drilled ~ 2530' FNL		20
52	& 2600' FEL		00
01		-	22
31	Cities Service - Dabbs Well No. 1	D	23
35	Cities Service - Dabbs Well No. 2	E	23
	•		

(2) That the subject waterflood project is hereby designated the Mobil Langlie Mattix Unit Waterflood Project and shall be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations;

PROVIDED HOWEVER, that the Secretary-Director of the Commission may approve such additional injection wells at orthodox and unorthodox locations within said waterflood project area as may be necessary to complete an efficient injection pattern; provided said wells are drilled no closer than 330 feet to the outer boundary of the Langlie Mattix Queen Unit nor closer than 10 feet to any guarter-quarter section or subdivision inner boundary, and provided further, that the application therefor has been filed in accordance with Rule 701 B of the Commission Rules and Regulations, and provided further, that a copy of the application has been sent to all offset operators, if any there be, and no such operator has objected within 15 days. The showing of well response as required by Rule 701 E-5 shall not be necessary before obtaining administrative approval for the conversion of additional wells to water injection.

(3) That monthly progress reports of the waterflood project herein authorized shall be submitted to the Commission in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.

(4) That that portion of Order No. R-3426, dated June 5, 1968, which approved certain water injection wells in the Langlie Mattix Queen Unit Area is hereby superseded.

(5) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

### SCARBOROUGH YATES-SEVEN RIVERS POOL (Continental Pressure Maintenance) Lea County, New Mexico

Order No. R-3487-A, Authorizing Continental Oil Company to Institute a Pressure Maintenance Project in the Scarborough Yates-Seven Rivers Pool, Lea County, New Mexico, September 8, 1969.

Application of Continental Oil Company for Amendment of Order No. R-3487, Lea County, New Mexico.

> CASE NO. 4198 Order No. R-3487-A

#### ORDER OF THE COMMISSION

BY THE COMMISSION: This cause came on for hearing at 9 a.m. on August 27, 1969, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 8th day of September, 1969, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

# MERIT ENERGY COMPANY

12222 Merit Drive, Suite 1500 Dallas, Texas 75251 (214) 701-8377 (214) 960-1252 Fax OIL CONSERVETION DIVISION RECIVED 195 ЛИЧТУ АМ 8 52

June 1, 1995

Oil Conservation Division 2040 S. Pacheco Santa Fe, NM 87505

Attn: Michael E. Stogner

Re: Application for Unorthodox Oil Well Locations Langlie Mattix Queen Unit Well No.s 45 and 46 Section 15, T25S, R37E, NMPM, Lea County, NM

Dear Mr. Stogner:

Per your request, attached please find copies of the amended NMOCD Forms C-101 and C-102 showing the new locations for the above captioned wells.

1

If you have any questions or require additional information, please contact me at (214) 701-8377.

Sincerely,

Sheryl J. Carruth Regulatory Manager

SJC:s

Attachments

District I PO Box 1980, Hobbs, NM 88241-1980 District II PO Drawer DD, Artesia, NM 88211-0719 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV PO Box 2088, Santa Fe, NM 87504-2088

OIL CONSERVATION DIVISION Submit to PO Box 2088 Santa Fe, NM 87504-2088

Form C-101 Revised February 10, 1994 Instructions on back Submit to Appropriate District Office State Lease - 6 Copies Fee Lease - 5 Copies

## X AMENDED REPORT

APPLICA	TION H	FOR PE	RMIT 1	o Drii	LL, RE-EN	ITER, DEE	EPEN	N, PLUGBA	ACK,	OR A	DD A ZONE
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		y Compa								0	14591
		Drive,		1500							API Number
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Penro	se Que	ens									
" Work	Type Code		" Well Typ	e Code	<sup>13</sup> Cab	le/Rotary		<sup>14</sup> Lease Type Co	ode	<sup>15</sup> Ground Level Elevation	
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" Mi	ultiple		17 Proposed	Depth	" Fo	rmation		<sup>1*</sup> Contractor			24 Spud Date
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<sup>11</sup> Describe the	proposed p	rogram. If t	his applicat	ion is to DEE	EPEN or PLUG B	ACK give the dat	a on ti	ae present produc	tive zone	and propo	sed new productive
zone. Describe	e the blowou	it prevention	program, i	f any. Use a	dditional sheets if	Decessary.					
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<sup>20</sup> I hereby certi	fy that the i	nformation gi	ven above is	true and com	plete to the best			ONGEDUA	TION		
of my knowledg			শ্বান দিক			01		ONSERVA	TION		510N
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Title:	Sheryl					Approval Date:			Expiratio	m Date:	· · · · · · · · · · · · · · · · · · ·
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DISTRICT I P.O. Box 1980, Hobbs, NM 88240



State of New Mexico Energy, Minerals and Natural Resources Departme. Form C-102 Revised February 10, 1994 Instruction on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

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

## OIL CONSERVATION DIVISION

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

X AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name			
	37240	Langlie Mattix 7 Rivers Queen			
Property Code	Prop	Well Number			
007694	LANGLIE	46			
OGRID No.	Oper	Elevation			
014591	MERIT ENE	3105'			
······································	Surfa	ce Location			

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	15	25 S	37 E		2620	SOUTH	1300	EAST	LEA

## Bottom Hole Location If Different From Surface

ſ	UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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ĺ										

## 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.
 	 	Sheryl J. Carruth
		Printed Name Regulatory Manager Title 5-31-95
		Date SURVEYOR CERTIFICATION
	0	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.
     	 2620.	ARRILLIQG, 1995 Date Surveyed Signature & Seal of Processional Surveyor.
		4-20-95 4-20-95 W.Q. Núm. 95-11-0045 Scriffente Nor-10045 500 675
\   		Certificate Nor Caldin W. WEST, 676 RONALD J. EIDSON, 3239

District I PO Box 1980, Hobbs, NM 88241-1980 District II PO Drawer DD, Artesia, NM 88211-0719 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV PO Box 2088, Santa Fe, NM 87504-2088

OIL CONSERVATION DIVISION

PO Box 2088 Santa Fe, NM 87504-2088 Form C-101 Revised February 10, 1994 Instructions on back Submit to Appropriate District Office State Lease - 6 Copies Fee Lease - 5 Copies

## X AMENDED REPORT

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DISTRICT I P.O. Box 1960, Hybbs, NM 86240 DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

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

## State of New Mexico

Energy, Minerals and Natural Resources Department

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## OIL CONSERVATION DIVISION

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

□ AMENDED REPORT

Aff Rumber         Feel Code         Hanglie Mattix 7 Rivers Queen           Property Role         37240         Phyperty Rave         Seel Number           007694         UANGLE MATTIX         45           001591         MERIT ENERGY COMPANY         3099           101 or Iol No.         Surface Location         Bettan           101 or Iol No.         Section         Termship         Mage           101 or Iol No.         Section         Termship         Mage           101 or Iol No.         Section         Termship         Mage         Lat Ion           101 or Iol No.         Section         Termship         Mage         Lat Ion         Peet from the         Rest/Fred Hun.         Compt           110 or Iol No.         Section         Termship         Mage         Lat Ion         Peet from the         Rest/Fred Hun.         Compt           1200 or Infill         Consolidation Code         Order No.         South or Infill         Consolidation Code         Order No.           1210 or Infill         Consolidation Code         Order No.         South or Infill         Consolidation Code         OPERATOR CERTIFICATION           1220 or Ion No.         Order No.         Standard Mage         South terems or Ion on order of the Viet Ion Norder Ion No. <th></th> <th></th> <th></th> <th>V</th> <th>VELL LO</th> <th>CATIC</th> <th>ON AND ACRE</th> <th>AGE DEDICATI</th> <th>ON PLAT</th> <th></th> <th></th>				V	VELL LO	CATIC	ON AND ACRE	AGE DEDICATI	ON PLAT		
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