July 23, 1991

VIA FEDERAL EXPRESS

Mr. Michael Stogner Oil Conservation Division P.O. Box 2088 Santa Fe, New Mexico 87504

OH CONSERVATION DISTRICT APPLICATION FOR AN UNORTHODOX WELL LOCATION

Proposed Merit-Record "35" Well No. 1 990' FSL & 990' FEL of Sec. 35, T19S, R35E

Lea County, New Mexico



Re:

Dear Mr. Stogner:

Mitchell Energy Corporation is requesting approval of an unorthodox location for the subject well at a location 990' FSL and 990' FEL of Section 35, T19S, R35E, Lea County, New Mexico. Our review of this area indicates that the primary objective Morrow sands are probably partially depleted at all orthodox locations on this proration unit, but that a well at the proposed location should be able to recover reserves which cannot be recovered by any existing well. Accordingly, we believe approval of the this application will prevent physical waste of hydrocarbons. We offer six exhibits in support of this application. Following is a summary of each exhibit:

1) Land Plat

The land plat attached shows all offset operators, our 320 acre stand-up drilling unit and the proposed unorthodox well location.

2) Isopach - Net Morrow Sand

This isopach shows a NE-SW trending Morrow sand thick over the proposed location in the SW/4 of Sec. 35, T19S, R35E. The Morrow sands in this area appear to have come from both a NW and a NE direction.

3) Structure Map - T/Morrow Sands

The structure at the top of the Morrow sands shows a complex pattern of faulting associated with the Central Basin Platform. The proposed unorthodox location lies along a NE-SW trending structural ridge.

4) Stratigraphic Cross Section H-H'

This cross section illustrates the complex nature of the Morrow sands. The Morrow reservoirs in this area are composed of several thin discontinuous lenses of sand.

5) Volumetric Drainage Estimates and Plat for Henry Record Well No. 1 and H.S. Record Well No. 2

The Henry Record Well No. 1 (Sec. 26, I, T19S, R35E) was drilled and completed in the Pearl North (Morrow) field (a correlative zone as shown on the enclosed cross-section). The well has produced 48, 109 BO and 1.471 BCFG from perforations at 12,528' - 12,533'. Based on this information we have calculated an estimated radial drainage area of 335 acres for this well.

The H.S. Record Well No. 2 was drilled 1959 and completed in the Morrow sands of the Pearl Penn Field. This well had cumulative production of 49,129 BO with no reported gas production from perforations at 12,642' - 12,666'. Since we do not have any reported gas production information on this well the attached volumetric drainage estimate for the H.S. Record No. 2 is based on the assumption that it produced with the same average producing GOR as the Henry Record No. 1. Based on this assumption we have calculated an estimated radial drainage area of 131 acres for this well.

The Plat attached with this exhibit reflects the location of the above discussed two wells, the assumed drainage radius around each well, all legal well locations and our proposed unorthodox location.

6) **Waiver Letters**

As shown on Exhibit 1 (Land Plat) there are three offset operators to our stand-up 320 acre drilling unit. We have received waiver letters (attached) from Mobil and Merit Energy Company. We expect to receive the third waiver from Marathon in the near future and we will forward same to your office as soon as possible.

Should you require additional information or if I can be of any further help in this matter, kindly advise.

Very truly yours,

MITCHELL ENERGY CORPORATION

George Multen

Regulatory Affairs Specialist

GM:mtb 3gunorth.lt

cc:

Oil Conservation Division - Hobbs, NM Merit Energy Partners - Certified Mail Marathon Oil Company - Certified Mail
Mobil Exploration & Producing U.S. Inc. - Certified Mail

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENTON DIVISION

REC: VED

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

'91 AUG 8 AM 8 54

BRUCE KING GOVERNOR

7-31-91

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

~				
OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 8750				
RE: Proposed: MC DHC NSL NSP SWD WFX				
PMX	<u> </u>			
Gentlemen:				
I have examined the applications and my recommendations and my recommendations are	Leage & Well No.	t-Record 35" Unit S-T-R	#1-P 35-	19-35
			-	-
				- -
Yours very truly, Jerry Sexton				
Supervisor, District 1				

(35G, T19S-R35E)

Volumetric Drainage Estimate

Given: Perforations 12,643-12,664'

Cummulative Production = 49,129 BO No reported gas

 \emptyset = 12.6%

Sw = 30.0% From logs

h = 12.0 Ft.

IBHP = 6320 psi From DST

Rp = 31,250 SCF/BBL Average produced gas/oil ratio of the

correlative interval in the H.S. Record #1

API = 41° Reported Gas Gr. = .765 Reported

Bgi = .002688 CF/SCF

Assumed: FBHP = 632 psi

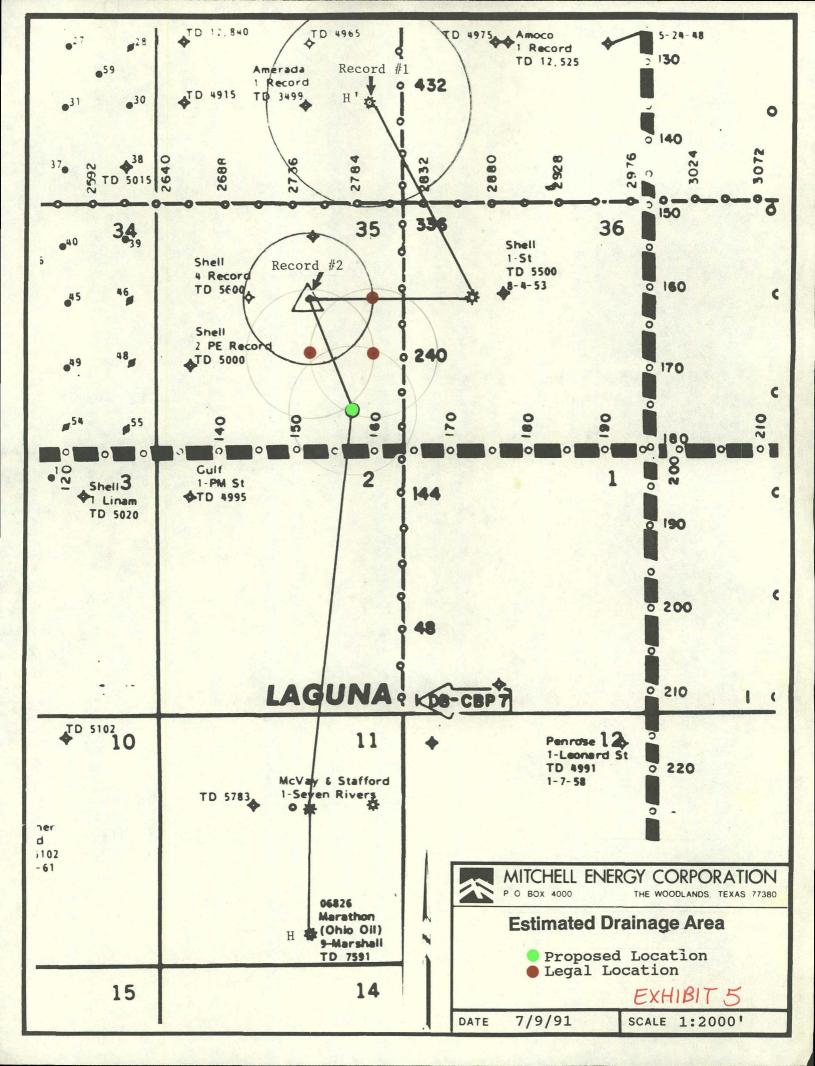
Bga = .026357 CF/SCF

Estimated Unit Recovery = 977 MCF/AcFt.
Estimated Unit Recovery/Acre = 977 MCF/AcFt (12 Ft.) = 11,275 MCF/Ac.

*** Assuming the same average producing ratio as the H. S. Record #1, Cummulative gas production for the H. S. Record #2 is estimated at 1,535,000 MCFG. ***

Estimated Drainage Area = $\frac{1,535,000 \text{ MCF}}{11,725 \text{ MCF/Acre}}$ = 131 Acres

Estimated Drainage Radius = 1,350 Ft.



INTENTIONAL OMISSIONS

The following document(s) have been intentionally omitted from this file due	to the
indicated reasons.	
FILE #	

DESCRIPTION OF OMITTED DOCUMENTS

OMITTED DOCUMENT	REASON OMITTED			
Exhibit 4-STRATIGRAPHIC CON	es Section bo large			

(26I, T19S-R35E)

Volumetric Drainage Estimate

Given:

Perforations 12,528-12,533'

Cummulative Production = 48,109 BO 1,470,941 MCFG

= 11.0%

Swi

= 17.0% = 5 Ft.

From logs

h

IBHP

= 6493 psi

From DST

Rр

= 31,250 SCF/BBL

Average produced gas/oil ratio

= 50.8° API

Reported

Gas Gr. = .987

Reported

= .0030447 CF/SCF Bgi

Assumed:

FBHP

= 649 psi

Bga

= .0234355 CF/SCF

Estimated Unit Recovery = 878 MCF/AcFt.

Estimated Unit Recovery/Acre = 878 MCF/AcFt (5 Ft) = 4,390 MCF/Ac

Estimated Drainage Area = 1,470,941 MCF = 335 Acres

4,390 MCF/Ac

Estimated Drainage Radius = 2,155 Ft.



OIL CONSERV ON DIVISION

REC: VED

'91 AUG 14 AM 8 40

June 24, 1991

VIA FEDERAL EXPRESS

Marathon Oil Compary 125 West Missouri Midland, TX 79701

RECEIVED

AUG 0 9 1991

Re:

UNORTHODOX WELL LOCATION MERIT-RECORD "35" WELL NO. 1 LEA COUNTY, NEW MEXICO

REGULATION AFFAIRS



Gentlemen:

This is to advise that Mitchell Energy Corporation is requesting an exception to State of New Mexico's Rule 104 C. II. (a) for the above subject well. The proposed location of our Merit-Record "35" No. 1 is as follows:

990' FSL and 990' FEL of Section 35, T19S, R35E, Lea County, New Mexico

If you, as a offsetting operator, have no objections to the above request, please indicate by signing in the space provided below and return two copies of this letter to the undersigned in the enclosed self-addressed envelope. The third copy is for your file completion.

Thank you in advance for your prompt attention to this matter and if I can be of any further help, kindly advise.

Very truly yours,

MITCHELL ENERGY CORPORATION

George Mullen

Regulatory Affairs Specialist

GM:mtb

WAIVE OBJECTION TO MERIT RECORD "35" WELL NO. 1 LOCATION ABOVE:

BY: Exal De-COMPANY: Mazarhow Oil Company

DATE: 8/6/91 TITLE: LANDMAN

PLEASE USE BLACK INK ONLY!!!!!!!!!!!!!!

FACSIMILE TRANSMISSION ROUTING SLIP

DATE: 8-9-91
MESSAGE TO: MICHAEL STOGNER
COMPANY NAME: OIL CONSERVATION DIVISION
CITY: SANTA FE NEW MEXICO
FACSIMILE NUMBER: (505) 827-5741
MESSAGE FROM: GEDRGE MULLEN
NUMBER OF PAGES INCLUDING THIS SHEET:
RETURN BY MAIL THROW AWAY WHEN SENT
!!!!!!!!!!!!!! THIS IS A LONG DISTANCE CALL, PLEASE LEAVE
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
COMMENTS: MICHAEL,
YOUR LONG DISTANCE CODE NUMBER!!!!!!!!!!!!!
YOUR LONG DISTANCE CODE NUMBER!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
COMMENTS: MICHAEL, THIS IS THE LAST WAIVER LETTER
COMMENTS: MICHAEL, THIS IS THE LAST WAIVER LETTER WE NEEDED FOR OUR UNDETHODOX WELL
COMMENTS: MICHAEL, THIS IS THE LAST WAIVER LETTER WE NEEDED FOR OUR UNDETHODOX WELL LOCATION. I'LL PUT THE ORIGINAL
COMMENTS: MICHAEL, THIS IS THE LAST WAIVER LETTERS WE NEEDED FOR OUR UNDETHODOX WELL LOCATION. I'LL PUT THE ORIGINAL IN THE MAIL TO YOU TODAY, THANKS
COMMENTS: MICHAEL, THIS IS THE LAST WAIVER LETTERS WE NEEDED FOR OUR UNDETHODOX WELL LOCATION. I'LL PUT THE ORIGINAL IN THE MAIL TO YOU TODAY, THANKS

IF YOU DO NOT RECEIVE ALL PAGES, PLEASE CALL TRACI AT (713)377-5929. THANK YOU!

June 24, 1991

VIA FEDERAL EXPRESS

Marathon Oil Compary 125 West Missouri Midland, TX 79701 RECEIVED

AUG 0 9 1991

Re:

UNORTHODOX WELL LOCATION

MERIT-RECORD "35" WELL NO. 1 LEA COUNTY, NEW MEXICO REGULATI AV AFFERS



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MITCHELL ENERGY CORPORATION

George Mullen

Regulatory Affairs Specialist

GM:mtb

WAIVE OBJECTION TO MERIT RECORD "35" WELL NO. 1 LOCATION ABOVE:

COMPANY: Mazorhad Oil Conpray

3Y: (200).

TITLE:

DATE: Ploto

enc.

MITCHELL ENERGY CORPORATION 2001 TIMBERLOCH PLACE P.O. BOX 4000, THE WOODLANDS, TEXAS 773874000 713/377-5500 A subsidiary of Mitchell Energy & Development Corp.

VIA FEDERAL EXPRESS

Merit Energy Partners, L.P. Merit Energy Partners II, L.P. Merit Energy Partners III, L.P. Attn: Mr. Joe Marek 12221 Merit Drive, Suite 1040 Dallas, TX 75251

Re:

UNORTHODOX WELL LOCATION MERIT-RECORD "35" WELL NO. 1 LEA COUNTY, NEW MEXICO



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RECEIVED

JUN 26 1991

PRODUCTION REGULATORY AFFAIRS

Very truly yours,

MITCHELL ENERGY CORPORATION

George Mullen

Regulatory Affairs Specialist

GM:mtb

WAIVE OBJECTION TO MERIT RECORD "35" WELL NO. 1 LOCATION ABOVE:

COMPANY: Mexit Energy Co

U.P.

BY:

DATE: 6/21/91

enc.

TITLE:

VIA FEDERAL EXPRESS

Mobil Exploration & Producing U.S., Inc. P.O. Box 633 Midland, TX 79702

RECEIVED

JUL 15 1991

UNORTHODOX WELL LOCATION MERIT-RECORD "35" WELL NO. 1 LEA COUNTY, NEW MEXICO

PRODUCTION REGULATORY AFFAIRS



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MITCHELL ENERGY CORPORATION

George Mullen

Regulatory Affairs Specialist

GM:mtb

WAIVE OBJECTION TO MERIT RECORD "35", WELL NO. X LOCATION ABOVE:

COMPANY:

MOBIL

TITLE:

STAFF LANDMAN

DATE: 7/107

(26I, T19S-R35E)

Volumetric Drainage Estimate

Given:

Perforations 12,528-12,533'

Cummulative Production = 48,109 BO 1,470,941 MCFG

Ø = 11.0%

Swi = 17.0%

From logs

h = 5 Ft.

IBHP = 6493 psi

From DST

Rp = 31,250 SCF/BBL

Average produced gas/oil ratio

API = 50.8° Gas Gr. = .987 Reported Reported

Bgi = .0030447 CF/SCF

Assumed:

FBHP = 649 psi

Bga

= .0234355 CF/SCF

Estimated Unit Recovery = 878 MCF/AcFt.

Estimated Unit Recovery/Acre = 878 MCF/AcFt (5 Ft) = 4,390 MCF/Ac

Estimated Drainage Area = $\frac{1.470.941 \text{ MCF}}{4.300 \text{ MCF}/4.5}$ = 335 Acres

4,390 MCF/Ac

Estimated Drainage Radius = 2,155 Ft.

(35G, T19S-R35E)

Volumetric Drainage Estimate

Given: Per

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Cummulative Production = 49,129 BO No reported gas

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Average produced gas/oil ratio of the

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Gas Gr. = .765

Reported Reported

Bgi = .002688 CF/SCF

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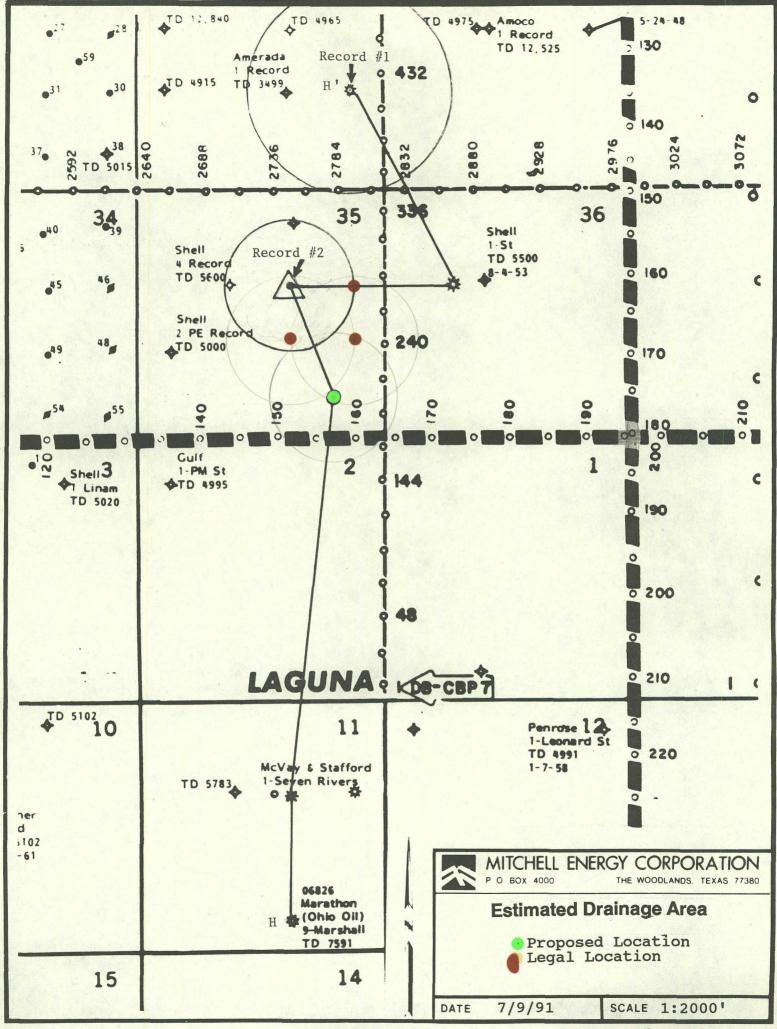
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Estimated Drainage Radius = 1,350 Ft.



June 20, 1991

VIA FEDERAL EXPRESS

Mobil Exploration & Producing U.S., Inc. P.O. Box 633 Midland, TX 79702

RECEIVED

JUL 15 1991

Re:

UNORTHODOX WELL LOCATION MERIT-RECORD "35" WELL NO. 1 LEA COUNTY, NEW MEXICO

PRODUCTION REGULATORY AFFAIRS にいいかがある。大学の教育などを表現をあるとなるが、他のは、他のないないでは、他のないないないない。



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MITCHELL ENERGY CORPORATION

George Mullen

Regulatory Affairs Specialist

GM:mtb

WAIVE OBJECTION TO MERIT RECORD "35". LOCATION ABOVE:

MOBIL **COMPANY:**

TITLE:

STAFF LANDMAN

DATE:

VIA FEDERAL EXPRESS

Merit Energy Partners, L.P. Merit Energy Partners II, L.P. Merit Energy Partners III, L.P. Attn: Mr. Joe Marek 12221 Merit Drive, Suite 1040 Dallas, TX 75251

Re: UNORTHODOX WELL LOCATION MERIT-RECORD "35" WELL NO. 1

LEA COUNTY, NEW MEXICO



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RECEIVED

JUN 26 1991

PRODUCTION REGULATORY AFFAIRS

Very truly yours,

MITCHELL ENERGY CORPORATION

George Mullen

Regulatory Affairs Specialist

GM:mtb

WAIVE OBJECTION TO MERIT RECORD "35" WELL NO. 1 LOCATION ABOVE:

COMPANY: Merit Energy Co

BY: Z

6/01/91

TITLE:

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