

ECONOMIC EVALUATION  
as of JUN 1, 1990

No: 1  
Property: FEDERAL S  
Well: 1

Operator: MOC  
Field: RED LAKE/MORROW

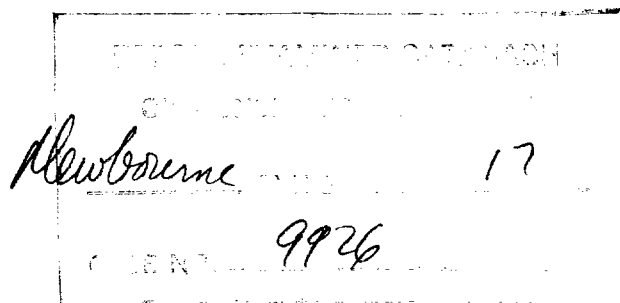
County: EDDY  
State: NM

Run Date: 05/25/90 10:07  
Input File: C:MOC90.DAT  
Type: GAS  
Class: PUD

	GROSS OIL PROD ---MB---	GROSS GAS PROD ---MMCF---	NET OIL PROD ---MB---	NET GAS PROD ---MMCF---	NET TOTAL REV ---M\$---	SEV + ADV + WFP TAXES ---M\$---	NET OPER EXPENSE ---M\$---	NET OPER INCOME ---M\$---	NET TOTAL INVEST ---M\$---	CASHFLOW (BFIT) ---M\$---	CUM CASHFLOW (BFIT) ---M\$---	DISC CASHFLOW (BFIT) ---M\$---
1990( 7 MO.)	.132	124.397	.105	99.362	169.812	15.283	5.660	148.869	614.000	465.131-	465-	452-
1991	.313	295.061	.250	235.680	438.873	39.493	17.556	381.824	.000	381.824	83-	344
1992	.218	205.952	.174	164.504	339.649	30.574	18.425	290.650	.000	290.650	207	238
1993	.152	143.755	.122	114.824	260.688	23.457	19.357	217.874	.000	217.874	425	162
1994	.106	100.341	.085	80.147	195.589	17.607	20.314	157.668	.000	157.668	582	106
1995	.074	70.038	.059	55.943	143.293	12.900	21.333	109.060	.000	109.060	691	67
1996	.052	48.886	.041	39.048	105.024	9.451	22.377	73.196	.000	73.196	765	40
1997	.036	34.123	.029	27.255	76.947	6.925	23.489	46.533	.000	46.533	811	23
1998	.025	23.818	.020	19.024	56.353	5.074	24.682	26.597	.000	26.597	838	12
1999	.018	16.625	.014	13.279	41.349	3.721	25.896	11.732	.000	11.732	850	4
2000( 7 MO.)	.008	7.270	.006	5.807	18.817	1.696	15.694	1.427	.000	1.427	851	0
SUBTOTAL	1.134	1070.266	.905	854.873	1846.394	166.181	214.783	1465.430	614.000	351.430	851	549
REMAINING	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0	0
TOTAL	1.134	1070.266	.905	854.873	1846.394	166.181	214.783	1465.430	614.000	351.430	851	549

-----EVALUATED INTERESTS-----			---R E S E R V E S---		-----E C O N O M I C S-----		----- PRESENT WORTH -----	
INITIAL	FINAL	DATE	OIL	GAS			-%	---M\$---
WORKING	1.00000000	JUN90	---MB---	---MMCF---	RISK (SUCCESS PROB.)	.60	0.0	851.430
OIL INCOME	.79875000	JUN90	CUM.	0	DISCOUNT RATE (PCT)	10.00	12.5	493.977
GAS INCOME	.79875000	JUN90	REM.	1	PROJECT LIFE (YRS)	10.16	15.0	444.287
*EVALUATED INTEREST: COMPANY			ULT.	1	PAYOUT (YRS)	1.91	20.0	359.247
					INTERNAL ROR (PCT)	66.48	25.0	289.445
NET OIL REVENUE(M\$):	18.864		WELLS	0	INCOME/INVEST-DISC	1.90	30.0	231.395
NET GAS REVENUE(M\$):	1827.530				INCOME/INVESTMENT	2.39	DISC. METHOD: MID YEAR	

-----F O O T N O T E S-----  
EVALUATION TERMINATION REASON: ECONOMIC LIMIT



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

IN THE MATTER OF THE HEARING  
CALLED BY THE OIL CONSERVATION  
DIVISION FOR THE PURPOSE OF  
CONSIDERING:

CASE NO. 9926  
Order No. R-9196

APPLICATION OF MEWBOURNE OIL  
COMPANY FOR COMPULSORY POOLING  
AND AN UNORTHODOX GAS WELL  
LOCATION, EDDY COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 8:15 a.m. on May 30, 1990, at Santa Fe, New Mexico, before Examiner David R. Catanach.

NOW, on this 11th day of June, 1990, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS THAT:

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

(2) The applicant, Mewbourne Oil Company, seeks an order pooling all mineral interests from the surface to the base of the Morrow formation underlying the following described acreage in Section 21, Township 18 South, Range 27 East, NMPM, Eddy County, New Mexico, and in the following described manner:

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The N/2 to form a standard 320-acre gas spacing and proration unit for any and all formations and/or pools developed on 320-acre spacing within said vertical extent, which presently includes but is not necessarily limited to the Undesignated Red Lake-Pennsylvanian Gas Pool, Undesignated Red Lake Atoka-Morrow Gas Pool, and Undesignated Scoggin Draw-Morrow Gas Pool;

The NE/4 to form a standard 160-acre gas spacing and proration unit for any and all formations and/or pools developed on 160-acre spacing within said vertical extent; and

The NE/4 NE/4 to form a standard 40-acre oil spacing and proration unit for any and all formations and/or pools developed on statewide 40-acre oil spacing, which presently includes but is not necessarily limited to the Undesignated Artesia-Queen-Grayburg-San Andres Pool, Undesignated East Dayton-Grayburg Pool, and Undesignated Empire-Abo Pool.

(3) Said units are to be dedicated to a single well to be drilled at a location 660 feet from the North and East lines (Unit A) of said Section 21, being a standard location for zones spaced on 40 and 160 acres, and being an unorthodox location for zones spaced on 320 acres.

(4) At the time of the hearing, the applicant requested that, due to topographical obstructions, the proposed well location be amended to 710 feet from the North line and 660 feet from the East line (Unit A) of said Section 21, which is slightly less unorthodox than the originally proposed location.

(5) In support of its proposed amended unorthodox gas well location, the applicant presented geologic evidence and testimony which indicates that a well at the proposed amended location should penetrate the Morrow "A" and "B" Channel Sands in an area of greater net sand thickness and porosity than a well drilled at a standard location thereon, thereby increasing the likelihood of obtaining commercial gas production.

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(6) In addition, the applicant presented evidence which indicates that the Yates Petroleum Corporation Rio Pecos "RS" Federal Well No. 1, which was drilled in 1984 at a standard 320-acre gas location 760 feet from the North line and 1980 feet from the East line (Unit B) of said Section 21, tested non-commercial in the Morrow formation and was subsequently plugged and abandoned.

(7) The owner of the affected offset acreage, being the N/2 of Section 22 and the S/2 of Section 15, Township 18 South, Range 27 East, NMPM, is Oryx Energy Company.

(8) According to evidence and testimony presented in this case, an agreement between the applicant and Oryx Energy Company has been executed whereby the proposed well will be subject to a 65% production limitation factor applied against the well's ability to produce as determined by an annual deliverability test or a minimum allowable of 1.0 MMCFG per day, whichever results in a greater allowable.

(9) The subject agreement, which was voluntarily entered into by the applicant in order to protect the correlative rights of Oryx Energy Company, is contractual in nature and will be executed and enforced by the two parties thereto.

(10) No other offset operator or interest owner appeared at the hearing in opposition to the proposed amended unorthodox gas well location.

(11) Approval of the proposed amended unorthodox gas well location will afford the applicant the opportunity to produce its just and equitable share of the gas within the Pennsylvanian formation, will prevent the economic loss caused by the drilling of unnecessary wells, will avoid the augmentation of risk arising from the drilling of an excessive number of wells, and will otherwise prevent waste and protect correlative rights.

(12) The applicant has the right to drill and proposes to drill its well at the unorthodox location described in Finding No. (4) above.

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(13) There are interest owners in the proposed proration unit(s) who have not agreed to pool their interests.

(14) To avoid the drilling of unnecessary wells, to protect correlative rights, to avoid waste, and to afford to the owner of each interest in said unit(s) the opportunity to recover or receive without unnecessary expense his just and fair share of the production in any pool completion resulting from this order, the subject application should be approved by pooling all mineral interests, whatever they may be, within said unit(s).

(15) The applicant should be designated the operator of the subject well and unit(s).

(16) Any non-consenting working interest owner should be afforded the opportunity to pay his share of estimated well costs to the operator in lieu of paying his share of reasonable well costs out of production.

(17) Any non-consenting working interest owner who does not pay his share of estimated well costs should have withheld from production his share of the reasonable well costs plus an additional 200 percent thereof as a reasonable charge for the risk involved in the drilling of the well.

(18) Any non-consenting interest owner should be afforded the opportunity to object to the actual well costs but actual well costs should be adopted as the reasonable well costs in the absence of such objection.

(19) Following determination of reasonable well costs, any non-consenting working interest owner who has paid his share of estimated costs should pay to the operator any amount that reasonable well costs exceed estimated well costs and should receive from the operator any amount that paid estimated well costs exceed reasonable well costs.

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(20) \$5500.00 per month while drilling and \$500.00 per month while producing should be fixed as reasonable charges for supervision (combined fixed rates); the operator should be authorized to withhold from production the proportionate share of such supervision charges attributable to each non-consenting working interest, and in addition thereto, the operator should be authorized to withhold from production the proportionate share of actual expenditures required for operating the subject well, not in excess of what are reasonable, attributable to each non-consenting working interest.

(21) All proceeds from production from the subject well which are not disbursed for any reason should be placed in escrow to be paid to the true owner thereof upon demand and proof of ownership.

(22) Upon the failure of the operator of said pooled unit(s) to commence the drilling of the well to which said unit(s) are dedicated on or before September 1, 1990, the order pooling said unit(s) should become null and void and of no effect whatsoever.

(23) Should all the parties to this forced pooling reach voluntary agreement subsequent to entry of this order, this order shall thereafter be of no further effect.

(24) The operator of the well and unit(s) shall notify the Director of the Division in writing of the subsequent voluntary agreement of all parties subject to the forced pooling provisions of this order.

IT IS THEREFORE ORDERED THAT:

(1) All mineral interests, whatever they may be, from the surface to the base of the Morrow formation underlying the following described acreage in Section 21, Township 18 South, Range 27 East, NMPM, Eddy County, New Mexico, are hereby pooled in the following described manner:

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The N/2 to form a standard 320-acre gas spacing and proration unit for any and all formations and/or pools developed on 320-acre spacing within said vertical extent, which presently includes but is not necessarily limited to the Undesignated Red Lake-Pennsylvanian Gas Pool, Undesignated Red Lake Atoka-Morrow Gas Pool, and Undesignated Scoggin Draw-Morrow Gas Pool;

The NE/4 to form a standard 160-acre gas spacing and proration unit for any and all formations and/or pools developed on 160-acre spacing within said vertical extent; and

The NE/4 NE/4 to form a standard 40-acre oil spacing and proration unit for any and all formations and/or pools developed on statewide 40-acre oil spacing, which presently includes but is not necessarily limited to the Undesignated Artesia-Queen-Grayburg-San Andres Pool, Undesignated East Dayton-Grayburg Pool, and Undesignated Empire-Abo Pool.

(2) Said units shall be dedicated to a single well to be drilled at an unorthodox 320-acre gas well location 710 feet from the North line and 660 feet from the East line (Unit A) of said Section 21.

PROVIDED HOWEVER THAT, the operator of said unit shall commence the drilling of said well on or before the 1st day of September, 1990, and shall thereafter continue the drilling of said well with due diligence to a depth sufficient to test the Morrow formation.

PROVIDED FURTHER THAT, in the event said operator does not commence the drilling of said well on or before the 1st day of September, 1990, Ordering Paragraph No. (1) of this order shall be null and void and of no effect whatsoever, unless said operator obtains a time extension from the Division Director for good cause shown.

PROVIDED FURTHER THAT, should said well not be drilled to completion, or abandonment, within 120 days after commencement thereof, said operator shall appear before the Division Director and show cause why Ordering Paragraph No. (1) of this order should not be rescinded.

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(3) Mewbourne Oil Company is hereby designated the operator of the subject well and unit(s).

(4) After the effective date of this order and within 90 days prior to commencing said well, the operator shall furnish the Division and each known working interest owner in the subject unit(s) an itemized schedule of estimated well costs.

(5) Within 30 days from the date the schedule of estimated well costs is furnished to him, any non-consenting working interest owner shall have the right to pay his share of estimated well costs to the operator in lieu of paying his share of reasonable well costs out of production, and any such owner who pays his share of estimated well costs as provided above shall remain liable for operating costs but shall not be liable for risk charges.

(6) The operator shall furnish the Division and each known working interest owner an itemized schedule of actual well costs within 90 days following completion of the well; if no objection to the actual well costs is received by the Division and the Division has not objected within 45 days following receipt of said schedule, the actual well costs shall be the reasonable well costs; provided however, if there is objection to actual well costs within said 45-day period the Division will determine reasonable well costs after public notice and hearing.

(7) Within 60 days following determination of reasonable well costs, any non-consenting working interest owner who has paid his share of estimated well costs in advance as provided above shall pay to the operator his pro rata share of the amount that reasonable well costs exceed estimated well costs and shall receive from the operator his pro rata share of the amount that estimated well costs exceed reasonable well costs.

(8) The operator is hereby authorized to withhold the following costs and charges from production:



- (A) The pro rata share of reasonable well costs attributable to each non-consenting working interest owner who has not paid his share of estimated well costs within 30 days from the date the schedule of estimated well costs is furnished to him.
- (B) As a charge for the risk involved in the drilling of the well, 200 percent of the pro rata share of reasonable well costs attributable to each non-consenting working interest owner who has not paid his share of estimated well costs within 30 days from the date the schedule of estimated well costs is furnished to him.

(9) The operator shall distribute said costs and charges withheld from production to the parties who advanced the well costs.

(10) \$5500.00 per month while drilling and \$500.00 per month while producing are hereby fixed as reasonable charges for supervision (combined fixed rates); the operator is hereby authorized to withhold from production the proportionate share of such supervision charges attributable to each non-consenting working interest, and in addition thereto, the operator is hereby authorized to withhold from production the proportionate share of actual expenditures required for operating such well, not in excess of what are reasonable, attributable to each non-consenting working interest.

(11) Any unleased mineral interest shall be considered a seven-eighths (7/8) working interest and a one-eighth (1/8) royalty interest for the purpose of allocating costs and charges under the terms of this order.

(12) Any well costs or charges which are to be paid out of production shall be withheld only from the working interest's share of production, and no costs or charges shall be withheld from production attributable to royalty interests.

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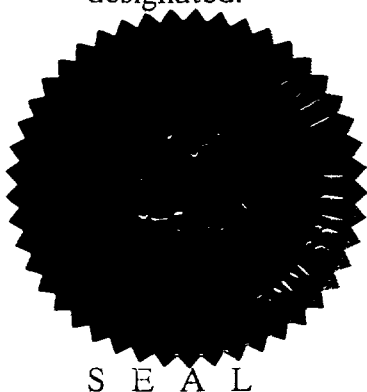
(13) All proceeds from production from the subject well which are not disbursed for any reason shall immediately be placed in escrow in Eddy County, New Mexico, to be paid to the true owner thereof upon demand and proof of ownership; the operator shall notify the Division of the name and address of said escrow agent within 30 days from the date of first deposit with said escrow agent.

(14) Should all parties to this forced pooling order reach voluntary agreement subsequent to entry of this order, this order shall thereafter be of no further effect.

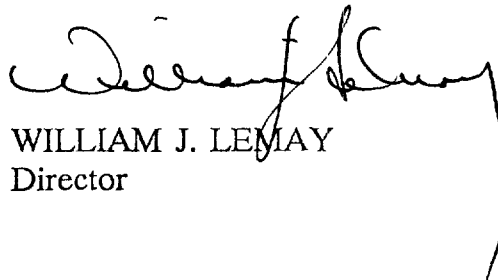
(15) The operator of the well and unit(s) shall notify the Director of the Division in writing of the subsequent voluntary agreement of all parties subject to the forced pooling provisions of this order.

(16) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

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



STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION

  
WILLIAM J. LEMAY  
Director