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NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

ADMINISTRATIVE APPLICATION COVER SHEET

тн	IS COVERSHEET IS	MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS
Applic:	[DHC-Downh [PC-Pool [W	s: [NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location] [DD-Directional Drilling] [SD-Simultaneous Dedication] ole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] /FX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] ed Enhanced Oil Recovery Certification] [PPR-Positive Production Response]
[1]	TYPE OF AP [A]	PLICATION - Check Those Which Apply for [A] Image: Comparison of the second dependence of the second
	Check [B]	One Only for [B] and [C] Commingling - Storage - Measurement DHC CTB PLC PC OLS OLM
	[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
[2]	NOTIFICAT [A]	ION REQUIRED TO: - Check Those Which Apply, or Does Not Apply Working, Royalty or Overriding Royalty Interest Owners
	[B]	I Offset Operators, Leaseholders or Surface Owner
	[C]	Application is One Which Requires Published Legal Notice
	[D]	Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
	[E]	General of the above, Proof of Notification or Publication is Attached, and/or,
	[F]	U Waivers are Attached

[3] INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of Understanding

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WJ, RI, ORRI) is common. I understand that any omission of data (including API numbers, pool codes, etc.), pertinent information and any required notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with supervisory capacity.

C. Michael Brown	C Miche 1	Bion	<u> Vice President - Geolog</u>	y 7/20/98
Print or Type Name	Signature	1	Title	Date



Manzano Oil Corporation

P.O. Box 2107 Roswell, New Mexico 88202-2107 (505) 623-1996 FAX (505) 625-2620

July 20, 1998

Mr. Michael L. Stogner Oil Conservation Division Department of Energy Minerals and Natural Resources 2040 South Pacheco Street Santa Fe, New Mexico 87505

Re: Application for Administrative Approval of Unorthodox Well Location Rio Negro #1 Eddy County, NM

Dear Mr. Stogner:

Manzano Oil Corporation hereby seeks administrative approval pursuant to the provisions of Division Rule 104 for the drilling of Manzano's Rio Negro #1 as a Morrow well located 660' FSL and 660' FWL, Section 23, T-24-S, R-26-E, Eddy County, New Mexico.

Manzano Oil Corporation is seeking approval for an unorthodox location in the White City Penn area of Eddy County, based on geological reasons. The proposed unorthodox location for the Rio Negro #1 will target the Morrow B sand as the primary objective and the Morrow C sand as a secondary objective. The Morrow B sand interval consists of a series of thin sand lenses along established channel trends. Some Morrow B sand is nearly always present within the White City Penn area, however sand thickness, porosity and permeability vary significantly. The sands with the greatest net sand, porosity, permeability and productivity are found along the axis of the channel trends. The Mesa Petroleum Company Smith Federal Com. #1 (1700' FNL & 1650' FWL, Sec. 23) illustrates the extreme risk of drilling on the flanks of one of these channels. As shown on the Morrow B net sand isopach map, this well encountered 22 feet of net Morrow B sand. In July 1977, Mesa drillstem tested the Morrow B and C intervals together recovering GTS 1" TSTM and 240' salt water cut mud with FP 221#, ISIP 1473#, FSIP 4855#. The results of this drillstem test indicate that the reservoir contains gas and water but is too tight to produce economically. A regular location for the Rio Negro #1 would be only 1930 feet south of this well and most likely would not encounter significantly different sand quality. The Morrow B net sand map indicates that moving the Rio Negro #1 to the proposed unorthodox location would dramatically improve the likelihood of encountering sand thickness and quality enough to make a commercial producer within the Morrow B. Also, the presence of formation water on the drillstem test of the Smith Federal Com. #1 would indicate the necessity of moving up structure in order to get out of the water column and thus make a commerical well. As shown on the T/Morrow A(B/Morrow B) structure map, a well at an orthodox location would not gain adequate structure to the Smith Federal Com. #1 to reduce the risk of a wet reservoir. Moving to the proposed location should result in gaining 75-100 feet of structure and should be sufficiently high to allow a water free completion. In addition to the above noted geological concerns, it should be noted that all the productive wells in the contigious proration units have been producing for 21 to 31 years with most producing at or near their economic limits. Granting this unorthodox location will help to protect the correlative rights under section 23 and prevent waste of the remaining reserves.

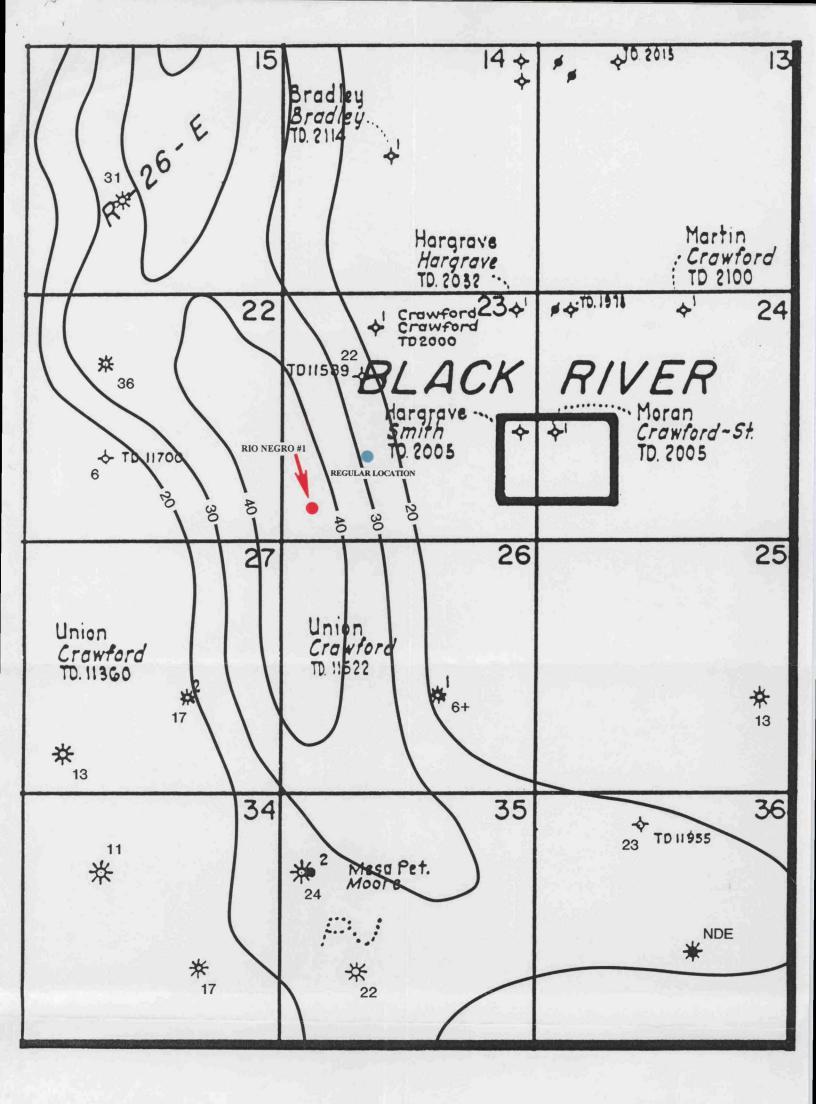
By separate letters (copies attached) Manzano has sent notification letters via certified return receipt mail to the affected parties. Your consideration to the Application is most appreciated. Should you have any questions, please feel free to call me at 505/623-1996.

Sincerely,

mil Burn

Mike Brown

Enclosures

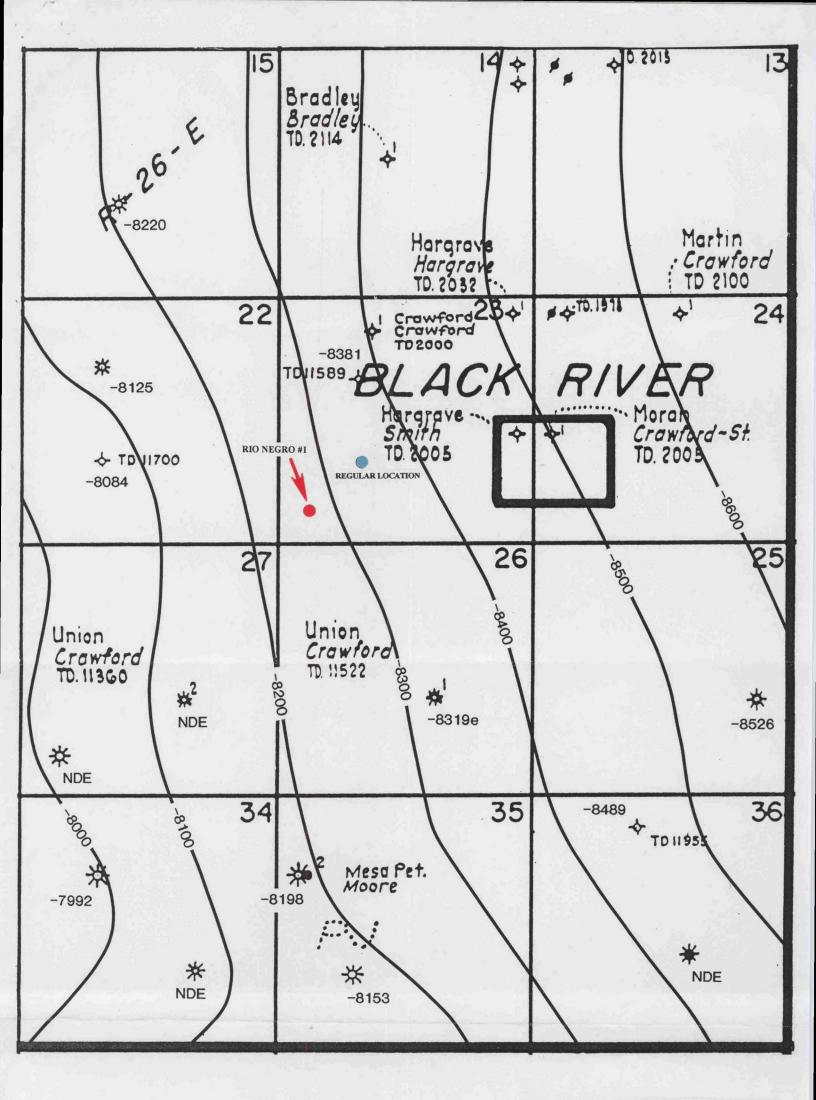


MANZANO OIL CORPORATION

UNORTHODOX WELL APPLICATION RIO NEGRO #1 660' FSL & 660' FWL, SEC. 23, T24S-R26E EDDY COUNTY, NM

MORROW "B" NET SAND ISOPACH POROSITY GREATER THAN 6%

CMB/LJL



MANZANO OIL CORPORATION

UNORTHODOX WELL APPLICATION RIO NEGRO #1 660' FSL & 660' FWL, SEC. 23, T24S-R26E EDDY COUNTY, NM

> STRUCTURE MAP T/MORROW "A"

C.I. = 100 FT

CMB/LJL

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 Pe, NM 87504-2088

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State of New Mexico EDETET, Minerals & Natural Resources Department

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

AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

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		⁸ P	roposed	Bottom	Hole Locat	ion If Diff	eren	t From Sur	face			
UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South	llee	Feet from the	East/	Vont Los	e County	
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" Mt	utipie		¹⁷ Proposed Depth		¹² Formation			" Costractor			³⁶ Spud Date	
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run pr	oducti	ion cas	ing.									
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¹³ I hereby certury that the information given of my knowledge and belief.	above is true and complete to the best	OIL CONSERVATION DIVISION				
Signature: Dry	The out	Approved by:				
Printed marke: Donnie Brown		Title:		٦		
vp Engineerii کاند:	ng	Approval Date:	Expiration Date:			
Date: 7/20/98	(505) 623-1996	Conditions of Approval . Attached				

District I PO Box 1980, Hobbs, NM \$\$241-1980 District II

PO Drawer DD, Artesia, NM \$\$211-0719

District III

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1000 Rie Brazos Rd., Aztoc, NM \$7410 District IV PO Box 2083, Santa Fe, NM \$7504-2083

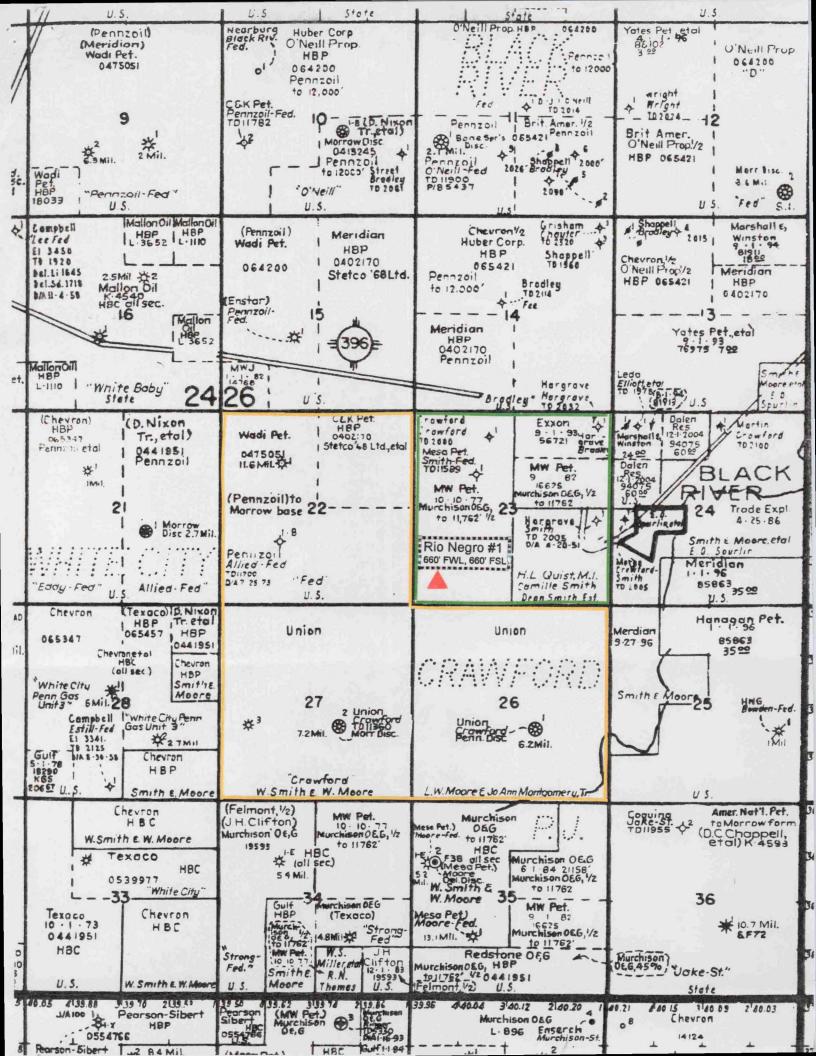
State of New Mexico Energy, Minerala & Nataral Resources Department

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

AMENDED REPORT

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

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MANZANO OIL CORPORATION

RIO NEGRO #1 660' FWL & 660' FSL of Section 23, T-24-S, R-26-E Eddy County, New Mexico

UNORTHODOX LOCATION - AFFECTED PARTIES

Section 22: Wadi Petroleum, Inc. (Operator) 1010 Tower II Corpus Christi, TX 78478

Well:Federal "22" #1 (located in NW/4)Spacing:640 acres (White City - Penn.)

Section 26: Matador Operating (Operator) 415 W. Wall, Suite 1101 Midland, TX 79701

Well:Crawford 26 #1 (located in SE/4)Spacing:640 acres (White City - Penn.)

Section 27: Matador Operating (Operator) Same as above

Wells:	Crawford 27 #2 (located in SE/4)
	Crawford 27 #3 (located in SW/4	4)
Spacing:	640 acres (White City - Penn.)	



Manzano Oil Corporation

July 20, 1998

Matador Operating 415 W. Wall, Suite 1101 Midland, TX 79701

RE: Rio Negro #1 Section 23, T-24-S, R-26-E Eddy County, New Mexico

Gentlemen:

Manzano Oil Corporation has filed a permit to drill the Rio Negro #1 well with the New Mexico Oil Conservation Division (OCD). The well will be drilled to a sub-surface depth of 11,760 feet to test the Pennsylvanian Morrow Formation and is within one (1) mile proximity of the OCD designated White City Pennsylvanian Gas Pool. The field rules provide for a 640 acre spacing unit and require that each well shall be no nearer than 1,650 feet to the boundary of the spacing unit. Our proposed location of 660' FWL and 660' FSL of Section 23, T-24-S, R-26-E, which is unorthodox, must be granted an exception to the spacing rules. Under Rule 104.F(2) the OCD may grant administrative approval if the operators, lessees or unleased mineral owners of the offsetting leases, to which the well will encroach, waive objection to the proposed location.

A positive response from you will eliminate the necessity to conduct a full OCD hearing on this matter thereby expediting our effort. However, if you object to the proposed location, your written expression of opposition must be filed with the OCD within twenty (20) days from the date this notice was mailed. Therefore, we request you waive objection to the drilling of the Rio Negro #1 well at the proposed location and evidence your acceptance by executing and returning a copy of this letter to my attention at the above address.

Very truly yours,

Kenneth Barbe, Jr.

AGREED to and ACCEPTED this _____ day of _____, 1998.

Matador Operating

Ву:_____

enc: APD C-101, OCD Application and Land Plat & List of Affected Parties

P.O. Box 2107 Roswell, New Mexico 88202-2107 (505) 623-1996 FAX (505) 625-2620



Manzano Oil Corporation

July 20, 1998

WADI Petroleum, Inc. 1010 Tower II Corpus Christi, TX 78478

RE: Rio Negro #1 Section 23, T-24-S, R-26-E Eddy County, New Mexico

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Kenneth Barbe, Jr.

AGREED to and ACCEPTED this _____ day of _____, 1998.

WADI Petroleum, Inc.

Ву:_____

P.O. Box 2107 Roswell, New Mexico 88202-2107 (505) 623-1996 FAX (505) 625-2620