ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE ABDI ICATION COVERS

	A	DMINIS I WALLA	EAFFEIO	111011 0	OVERSHEET	
TH	IIS COVERSHEET IS I	MANDATORY FOR ALL ADMINIS WHICH REQUIRE PF	TRATIVE APPLICATIO			ND REGULATIONS
Appli	[DHC-Dowi	ndard Location] [NSP-Nonhole Commingling] [C	TB-Lease Comm - Off-Lease Stora ion] [PMX-Pre sposal] [IPI-Inj	ingling] [Page] [OLM- ssure Mainte ection Pressu	LC-Pool/Lease Commi Off-Lease Measureme nance Expansion]	ingling] ent]
[1]	TYPE OF AI	PPLICATION - Check Location - Spacing Un	•			
	Check [B]	Cone Only for [B] or [C] Commingling - Storag DHC CTB			□ OLM	
	[C]	Injection - Disposal - I ☐ WFX ☐ PMX	Pressure Increase		Oil Recovery	
[2]	NOTIFICAT	ION REQUIRED TO:	- Check Those \	Which Apply.	or X Does Not Apply	٧
[-]	[A]	☐ Working, Royalty or				'
	[B]	☐ Offset Operators, Le	easeholders or Su	ırface Owner	·	
	[C]	☐ Application is One	Which Requires	Published Le	gal Notice	
	[D]	☐ Notification and/or (U.S. Bureau of Land Manage				
	[E]	☐ For all of the above,	Proof of Notific	ation or Publ	ication is Attached, ar	nd/or,
	[F]	☐ Waivers are Attache	ed .			
[3]	INFORMAT	ION / DATA SUBMIT	TED IS COMP	LETE - Cert	ification	
Oil con	Conservation Displete to the best <i>I understand the</i>	I, or personnel under my vision. Further, I assert of my knowledge and wat any omission of data area notification is cause	that the attached here applicable, (including API n	application for verify that al numbers, poo	or administrative appro l interest (WI, RI, OR l codes, etc.), pertine	oval is accurate an RI) is common. <i>nt information</i>
	Note	Statement must be complete	d by an individual w	ith managerial a	ind/or supervisory capacity	<i>(</i> .
Dea	an Chumbley	Dan G	han May	·Au	thorized Agent	3-72-0
Print	or Type Name	Signature		Title		Date
					bobland@hdc-nm.co	om
				e-mail	Address	



March 22, 2001

New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Attention: Engineering Bureau

MAR 2 6 2001

RE: Application for Downhole Commingling

Gentlemen:

Marbob Energy Corporation respectfully requests approval to downhole commingle production in our "D" State No. 1 well. Enclosed, in triplicate, is the application and supporting documentation. The ownership is identical as to the zones being commingled. We hope we have submitted all the information needed to reach a decision. However, if you are in need of further data, Please do not hesitate to contact us.

Thank you for reviewing this application.

Sincerely,

Dean Chumbley Land Department

DC/mm Enclosures

District I 1625 N. Franch Drive, Hobbs, NM 88240

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-107A Revised May 15, 2000

District II

811 South First Street, Artesia, NM 88210

District III

District IV 1220 S. St. Francis Dr., Sman Fe, NM 87505

TYPE OR PRINT NAME ___

Brian Collins

Oil Conservation Division

1220 South St. Francis Dr. Santa Fe, New Mexico 87505 APPLICATION TYPE

X Single Well
Establish Pre-Approved Pools
EXISTING WELLBORE

APPLICATION FOR DOWNHOLE COMMINGLING

X Yes No

Marbob Energy Corpora	tion P. O. Bo		M 88211-0227
"D" State	1 M-25-17S-		Eddy
Lease		ion-Township-Range	County
OGRID No. 14049 Property	Code 25375 API No. 30-0	15-31257 Lease Type:	Federal _X StateFee
DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Artesia Queen 3230		Artesia Glorietta
Pool Code	Grayburg San Andres		Yeso 96830
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	2770' - 3746' est.		3922' - 4120'
Method of Production (Flowing or Artificial Lift)	Oil (Artificial Lift)		Oil (Artificial Lift)
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)	1300 psi est.		1700 psi est.
Oil Gravity or Gas BTU (Degree API or Gas BTU)	36° API		39° API
Producing, Shut-In or New Zone Date and Oil/Gas/Water Rates	Not tested yet		Producing
of Last Production. (Note: For new zones with no production history,	Date:	Date:	Date: Jan. 2001
applicant shall be required to attach production estimates and supporting data.)	Rates: N/A	Rates:	Rates: 50 bopd/50 mcfd 85 bwpd
Fixed Allocation Percentage (Note: If allocation is based upon something other	Oil Gas	Oil Gas	Oil Gas
than current or past production, supporting data or explanation will be required.)	26 % 40 %	% %	74 % 60 %
	ADDITION	NAL DATA	
	ling royalty interests identical in all co overriding royalty interest owners be		Yes X No No No
Are all produced fluids from all con	nmingled zones compatible with each	other?	Yes X No
Will commingling decrease the value	ne of production?		YesNoX
	with, state or federal lands, has either Management been notified in writing		Yes <u>X</u> No
NMOCD Reference Case No. appli	cable to this well:		
Production curve for each zone For zones with no production hi Data to support allocation meth Notification list of working, roy	ningled showing its spacing unit and a for at least one year. (If not available, story, estimated production rates and od or formula. Talty and overriding royalty interests for or documents required to support con	attach explanation.) supporting data. or uncommon interest cases.	
	PRE-APPRO	VED POOLS	
If application	is to establish Pre-Approved Pools, th	ne following additional information w	vill be required:
List of all operators within the prop	shole commingling within the proposed osed Pre-Approved Pools proposed Pre-Approved Pools were pro-		
//	tion above is true and complete to	the best of my knowledge and bel	lief.
SIGNATURE Im	Cullin TITLE	Engineer	DATE 22Mar 0/

_ TELEPHONE NO.(505) 748-3303

DISTRICT I P.O. Box 1980, Hobbs, Nis 88241-1980

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised February 10, 1994 Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT II P.O. Drawer DD, Artonia, NM 88211-0719

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

DISTRICT IV P.O. BOX 2088, SANTA FE, N.M. 87504-2088

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	
	96830	CARTESIA GLO	RIETTA YESO
Property Code	Propert		Well Number
25375	"D" S	STATE	1
OGRID No.	Operato		Elevation
14049	MARBOB ENERG	Y CORPORATION	3660

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	25	17 S	28 E		990	SOUTH	990	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint o	r Infill Co	nsolidation	Code Or	der No.				
40									

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.
	Robin Cockrum
	ROBIN COCKRUM Printed Name
	PRODUCTION ANALYST Title 7/12/00
	SURVEYOR CERTIFICATION
	I hereby certify that the well location shown on this plat was plotted from field notes of estual surveys made by me or under my supervison, and that the same is true and correct to the best of my belief.
	Date Survey De DC Signature & Sea Company Professional Surveyor
990'	Bensil (10/00 - 1/0/00
Ö	Continue No. RONALD JEIDSON 3239 GARCAE BRON 12641 LINE MEDONALD 12185

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

API Number

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505 Form C-102 Revised October 18, 1994 Instructions on back Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

³ Pool Name

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ Pool Code

Į	30-015-	-31257			96830			RTESIA QUEEN	GRAYBUE	G, SAN A		
Ī	4 Property C	ode				¹ Prop	-				١.	Well Number
-	25375					"D" ST						1
ſ	OGRID 1	io.				' Oper	rator	Name				' Elevation
	14049				M			Y CORPORATIO	<u>N</u>			3660
						10 Surfa	ice	Location				
ſ	UL or lot no.	Section	Township	Range	Lot Idn	Feet from t	he	North/South line	Feet from the	East/We	st line	County
	M	25	17S	28E		990		SOUTH	990		EST	EDDY
•				¹¹ Boti	tom Hol	e Locatio	n I	f Different Fro	om Surfac	e		
1	UL or lot no.	Section	Township	Range	Lot Idn	Feet from t	he	North/South line	Feet from the	East/We	st line	County
	13 Dedicated Acr	es ¹³ Joint	or Infill	Consolidatio	n Code 15 (Order No.					, , , , ,	
	40											
,	NO ALLOV	VABLE '						ON UNTIL ALL			EEN CC	NSOLIDATED
		1	OR A	NON-ST	ANDARD	UNIT HA	2 R	EEN APPROVED				
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		1					ı		18SU	RVEYOR	R CER	TIFICATION
					1			-	1 hereby	certify that the	well local	ion shown on this plat tual surveys made by me
		ł							or unde	r my supervisioi	n, <mark>and th</mark> ai	the same is true and
		•			Ì		•		correci	to the best of m	y belief.	
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"D" STATE NO. 1 M-25-17S-28E, EDDY COUNTY MARBOB ENERGY CORPORATION APPLICATION FOR DOWNHOLE COMMINGLING

DATA SUPPORTING OIL AND GAS ALLOCATION FOR EACH ZONE

FOR THE SAN ANDRES, 33 AREA WELLS WERE USED TO DERIVE AN AVERAGE EUR = 33.9 MBO, 101.7 MMCF (SEE ATTACHED PRODUCTION PLOT) FOR THE YESO, 10 AREA WELLS WERE USED TO DERIVE AN AVERAGE EUR = 97.8 MBO, 150.3 MMCF (SEE ATTACHED PRODUCTION PLOTS) PRODUCTION TO DATE ON THE "D" STATE LEASE INDICATES THAT THE ABOVE AVERAGE EUR IS REASONABLE IN THE YESO

YESO WELL DATA:

LEASE B440 BR549 MUSKEGON
EUR OIL (MBO) 100.2 93.5 98.4
EUR GAS # WELLS (MMCF) 135.3 5 187 32.8
VELLS 5 3

SAN ANDRES WELL DATA:

33 MARBOB (MBO) (MMCF) 33.9 101. EUR OIL EUR GAS

WELLS

ALLOCATION SUMMARY:

OIL---SAN ANDRES = 33.9 MBO/(97.8 MBO + 33.9 MBO) = 0.26 OIL—YESO = 97.8 MBO/(97.8 MBO + 33.9 MBO) = 0.74

GAS---SAN ANDRES = 101.7 MMCF/(150.3 MMCF + 101.7 MMCF) = 0.40 GAS---YESO = 150.3 MMCF/(150.3 MMCF + 101.7 MMCF) = 0.60

33 San Andres Wells Sec 26,27,34 - 175-286 Eddy, NM

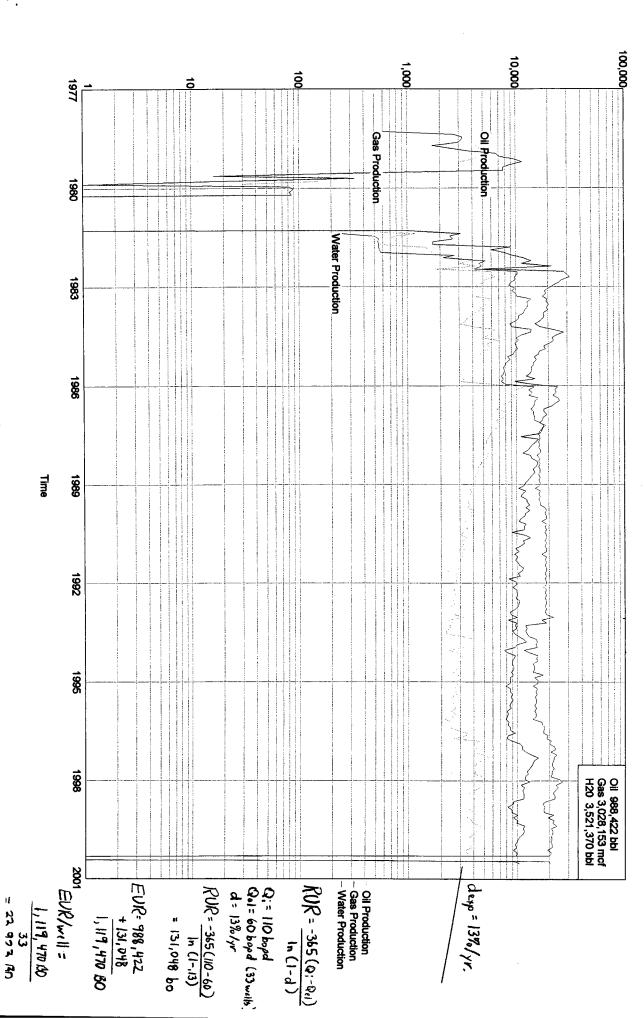
Lease Name: MULTIPLE
County, State: EDDY, Unknown
Operator: MARBOB ENERGY CORPORATION
Field: MULTIPLE
Reservoir: QUEEN-GRAYBURG-SAN A

Aug. EUR per well = 33.9 MBO

San Andres

Aug. GOR = 3000 (Aug 101.7 MINGF/mil)

MULTIPLE - MULTIPLE

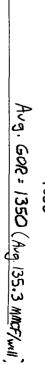


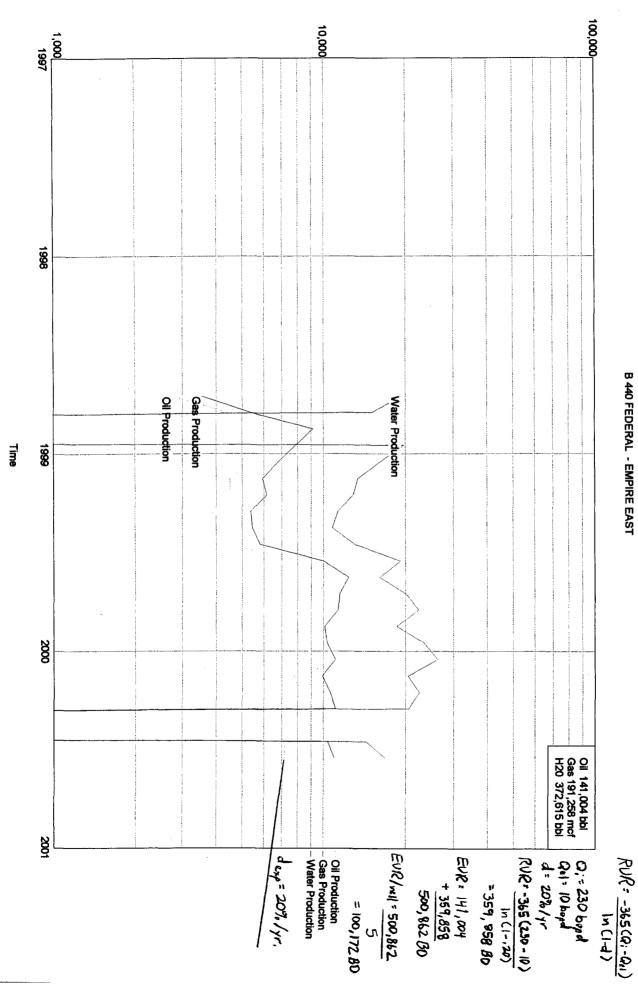
to the "O" State Yeso wells because the "O" State doesn't have enough production hese wells are used as an analog 5 Yeso Wells

Lease Name: B 440 FEDERAL County, State: EDDY, Unknown Operator: MARBOB ENERGY CORPORATION Field: EMPIRE EAST Reservoir: YESO

Aug. EUR per well = 100.2 MBO

Ye50



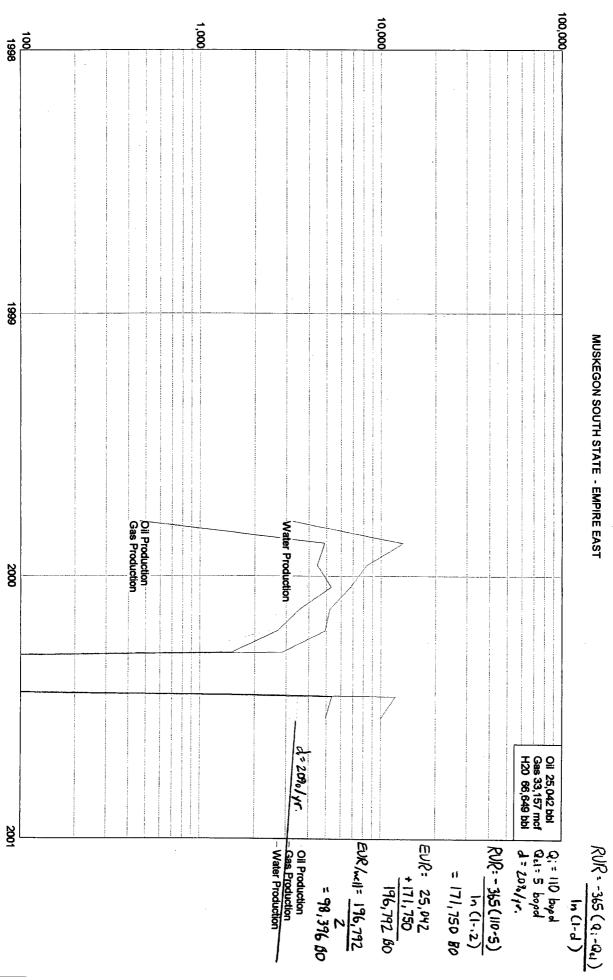


2 Yeso Wells Production analog to "D" State. **Production Rates** 100,000 10,000

Lease Name: MUSKEGON SOUTH STATE
County, State: EDDY, Unknown
Operator: MARBOB ENERGY CORPORATION
Field: EMPIRE EAST
Reservoir: MULTIPLE
Location:

MUSKEGON SOUTH STATE - EMPIRE EAST

Avg. 60R: 1350 (Avg. 132,8 mmcF/~1 Aug EUR per well = 98.4 MBO



•

Time

RM C-115- OPERATORS MONTHLY REPORT (CONTINUATION

Recent Production
"D" State #1

THE CALLEGE STREET				•						1	
OPERATOR: MARBOB ENERGY CORPORATION	OGRID:	014049					_	MONTH/YEAR 01/01	01/01	PAGE	E 60 OF 63
	INJECTION	_	PRODUCTION	TION	_		DISPOSIT	DISPOSITION OF OIL,	GAS, AND WATER	MATER	
7	8 9 10	;	13	14	15 16	17	18	19 ON	20	21	22 23 C
PROPERTY NO. AND NAME	0 0	o oII/cond-	BBLS OF	GAS -	DAYS O		GAS BTU	HAND AT			O OIL ON HAND
WELL NO. AND U-L-S-T-R API NUMBER	D VOLUME PRESSURE	D ENSAITS E PRODUCED		PRODUCED PR	PRODUCED D	DISPOSI-	OR OIL	BEGINNING	VOLUME (BBLS/MCF)	OGRID	E MONTE
024886 T.H. STATE				-	-				1 1 1 1 1 1 1		
001 F-34-17S-28E 30-015-30762	טי	236	1311	525	31						
					₹ @ O	2824488 2824489	38.7 1402	186	355 525 1311	015694 036785	67
UZ5375 U STATE											
001 M-25-17S-28E 30-015-31257	ъ	1535	2637	1468	31						
003	ዋ	1089	1663	884	31						
010 D-36-17S-28E 30-015-31165	שי	1064	7136	1435	31						
018 L-35-178-28E 30-015-30977	טי	1014	8201	801	31						
021 I-25-178-28E 30-015-30975	ਾਰ -	990	6911	934	#						
					<u></u>	2825596 2825597	39.2 1596	637	6014 5522 26548	015694 001009	315
025702 LP STATE				- , 							
001 E-05-18S-28E 30-015-31086	טי	84	1588	176	31						
003 M-06-18S-28E 30-015-31087	שי	40	1536	42	30						
					₹ බ0	2826075 2820676	38.4 1188	261	181 218 3124	034019 036785	0 204
96831 CEDAR LAKE; YESO				 -							
023300 LEE FEDERAL					1	1					

D.54.#1 3922-4120'