DATE IN	7/23/01	GUSPENSE	NIRS	ENGINEER	DC	LOGGED BY	KV	TYPE	DHC	
	,							120	54603	38
					E FOR DIVISION USE C		CLON			

### **NEW MEXICO OIL CONSERVATION DIVISION**

ally.

		- Engineering Bureau -
		DMINISTRATIVE APPLICATION COVER SHEET
T	HIS COVERSHEET	S MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS
Applic	[PC-Po	ms:  [NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location]  [DD-Directional Drilling] [SD-Simultaneous Dedication]  hole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]  of Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]  [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]  [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]  lified Enhanced Oli Recovery Certification] [PPR-Positive Production Response]
[1]	TYPE OF A	APPLICATION - Check Those Which Apply for [A]  Location - Spacing Unit - Directional Drilling  NSL NSP DD SD
	Che [B]	ck One Only for [B] and [C] Commingling - Storage - Measurement  DHC CTB PC PC OLS OLM
	[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  WFX PMX SWD IPI EOR PPR
[2]	NOTIFICA [A]	TION REQUIRED TO: - Check Those Which Apply, or Does Not Apply  Working, Royalty or Overriding Royalty Interest Owners
	[B]	☐ 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]	☐ For all of the above, Proof of Notification or Publication is Attached, and/or,
	[F]	☐ Waivers are Attached
[3]	INFORMA	TION / DATA SUBMITTED IS COMPLETE - Statement of Understanding
Regulappro ORRI	lations of the val is accurate  () is common.	I, or personnel under my supervision, have read and complied with all applicable Rules Oil Conservation Division. Further, I assert that the attached application for administrational and complete to the best of my knowledge and where applicable, verify that all interest (WI, I understand that any omission of data (including API numbers, pool codes, etc.), pertire required notification is cause to have the application package returned with no action take

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

Brian Collins	- Pair Callin	Eugr	19 JUL 0
Print or Type Name	Signature	Title	Date



July 19, 2001

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

Attention: Engineering Bureau

RE: Application for Downhole Commingling

Gentlemen:

Marbob Energy Corporation respectfully requests approval to downhole commingle production in our "D" State number 7, 8, 9, and 10 wells. Enclosed, in triplicate, is the applications 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 these applications.

Sincerely,

Dean Chumbley Land Department

DC/mm Enclosures

### State of New Mexico Energy, Minerals and Natural Resources Department

Form C-107A Revised May 15, 2000

### District II

**District IV** 

District III
1000 Rio Brezos Road, Aztec, NM 87410

1220 S. St. Francis Dr., Santa Fe, NM 87505

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	P. O.	Box 227 Artesia	, NM 88211-0227				
Operator	Address 10 D-36-1	s 17S-28E	P.1.1				
"D" State Lease		tion-Township-Range	Eddy County				
OGRID No. 14049 Property		-	Federal _XStateFee				
DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE				
Pool Name	Artesia Queen Grayburg San Andres		Artesia Glorieta Yeso				
Pool Code	0i1 - 3230		0il - 96830				
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)			4011' - 4276'				
Method of Production (Flowing or Artificial Lift)	Artificial Lift		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	Not Tested Yet		Producing				
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history,	Date:	Date:	Date: May, 2001				
applicant shall be required to attach production estimates and supporting data.)	Rates: N/A	Rates:	Rates: 38 bopd, 344 bwpd 62 mcfd				
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 %				
	ADDITIO	NAL DATA					
	ling royalty interests identical in all co		Yes X No Yes No				
	nmingled zones compatible with each	•	Yes X No				
Will commingling decrease the value	ue of production?		Yes NoX				
	with, state or federal lands, has either I Management been notified in writing		YesX No				
NMOCD Reference Case No. appli	cable to this well: Administra	tive Order DHC-2906					
Attachments:  C-102 for each zone to be commingled showing its spacing unit and acreage dedication.  Production curve for each zone for at least one year. (If not available, attach explanation.)  For zones with no production history, estimated production rates and supporting data.  Data to support allocation method or formula.  Notification list of working, royalty and overriding royalty interests for uncommon interest cases.  Any additional statements, data or documents required to support commingling.							
	PRE-APPRO	OVED POOLS					
If application	is to establish Pre-Approved Pools, t	he following additional information w	vill be required:				
List of all operators within the prop	nhole commingling within the propose posed Pre-Approved Pools proposed Pre-Approved Pools were pr						
I hereby certify that the informa	ation above is true and complete to	the best of my knowledge and bel	iief.				
SIGNATURE /212	Loller TITLE	Engr	DATE 19 July DI				

DISTRICT I P.O. Bex 1980, Hobbs, NM 88341-1980

DISTRICT III

DISTRICT IV

### 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, Artesia, NM 88211-0719

1000 Rio Brazos Rd., Axtec, NM 87410

### OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

### P.O. BOX 2086, SANTA FE, N.M. 87604-2088 WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	e	
	96830	ARTESIA GLORIE	TTA YESO
Property Code 25375	Propert D S7	y Name FATE	Well Number
OGRID No. 14049	Operato	Y CORPORATION	Elevation 3679

### Surface Location

İ	UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	D	36	17 S	28 E		330	NORTH	990	WEST	EDDY

### Bottom Hole Location If Different From Surface

UL or lot No.	Section Town	nship Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County
				= =	A refer of traditional to the second of		· <del></del>	
			1	<u> </u>		L	<u> </u> _	L
Dedicated Acres	Joint or Infil	l Consolidation	Code Ur	der No.		•		
40	}	i						

### 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

990'0	OPERATOR CERTIFICATION  I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.  Signature
	ROBIN COCKRUM Printed Name PRODUCTION ANALYST Title 5/23/00 Date SURVEYOR CERTIFICATION
	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.  MAY 13, 2000  Date Surveyed
	Signature & Seal of Professional Surveyor    Description   Surveyor   Style   Style

DISTRICT 'I P.O. Bez-1980, Hobbs, NM 88341-1980

### State of New Mexico

Energy, Minerals and Natural Resources Department

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

Appropriate District Office State Lease – 4 Copies Fee Lease – 3 Copies

DISTRICT II P.O. Drawer DD, Artesia, NM 58211--0719

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

### OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

### DISTRICT IV P.O. BOX 2086, SANTA PR. N.M. 87504-2088

	WELL LOCATION AND ACREAGE	E DEDICATION PLAT
API Number	Pool Code 3230 Art	Pool Name tesia Queen Grayburg, San Andres
Property Code	Property Name D STATE	Well Number
25375 OGRID No.	D SIAIE	10
14049	MARBOB ENERGY COR	

### Surface Location

1	UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	D	36	17 S	28 E		330	NORTH	990	WEST	EDDY

### Bottom Hole Location If Different From Surface

T	L or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
7	Dedicated Acre	Joint o	r infill (	onsolidation	Code Oz	der No.		•		<u> </u>
Ι.	40				ļ					

### 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

990'	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
	_5/23/00 Date  SURVEYOR CERTIFICATION
	I hereby certify that the well location shown on this plat was platted from field nates of actual surveys made by me or under my supervison and that the same is true and correct to the best of my belief.
	MAY 13, 2000  Date Surveyed LMP  Signature & Seal of Professional Surveyor
	Certificate No. BONALD 1 RISSON 3239
	GARY KIDSON 12841 MACON MeDONALD 12185

APPLICATION FOR DOWNHOLE COMMINGLING MARBOB ENERGY CORPORATION "D" STATE NO. 1
M-25-17S-28E, EDDY COUNTY

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	EUR OIL	<b>EUR GAS # WELLS</b>	WELLS
	(MBO)	(MMCF)	
3440	N	135.3	ڻ ن
3R549	93.5	187	ω
MUSKEGON	98.4	132.8	N
VEIGHTED \VG. EUR	97.8	150.3	

# SAN ANDRES WELL DATA:

33 MARBOB WELLS		
33.9	EUR OIL	
101.7	EUR GAS (MMCF)	

## ALLOCATION SUMMARY:

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

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

Note:

The "D" State Yeso wells have not been producing long enough to establish an accurate decline curve. Nearby Yeso wells are used as analogs for estimating reserves Cattached

Eddy, NM Sec. 26, 27, 34 - 175-286 Jan Mayes Wells

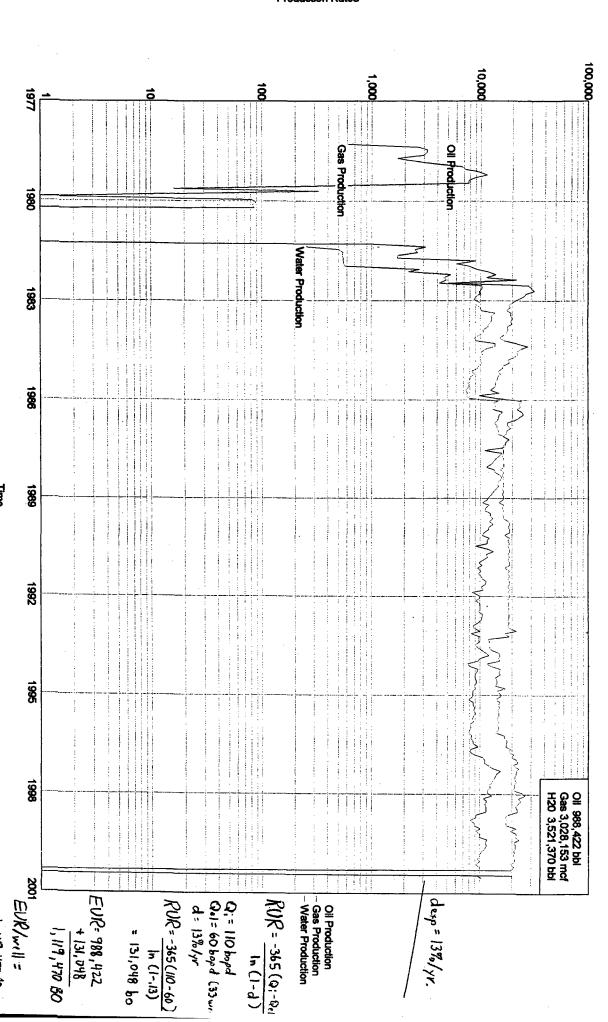
Lease Name: MULTIPLE
County, State: EDDY, Unknown
Operator: MARBOB ENERGY CORPORATION
Field: MULTIPLE
Reservoir: QUEEN-GRAYBURG-SAN A

Aug. EUR per well = 33.9 MBD

San Andres

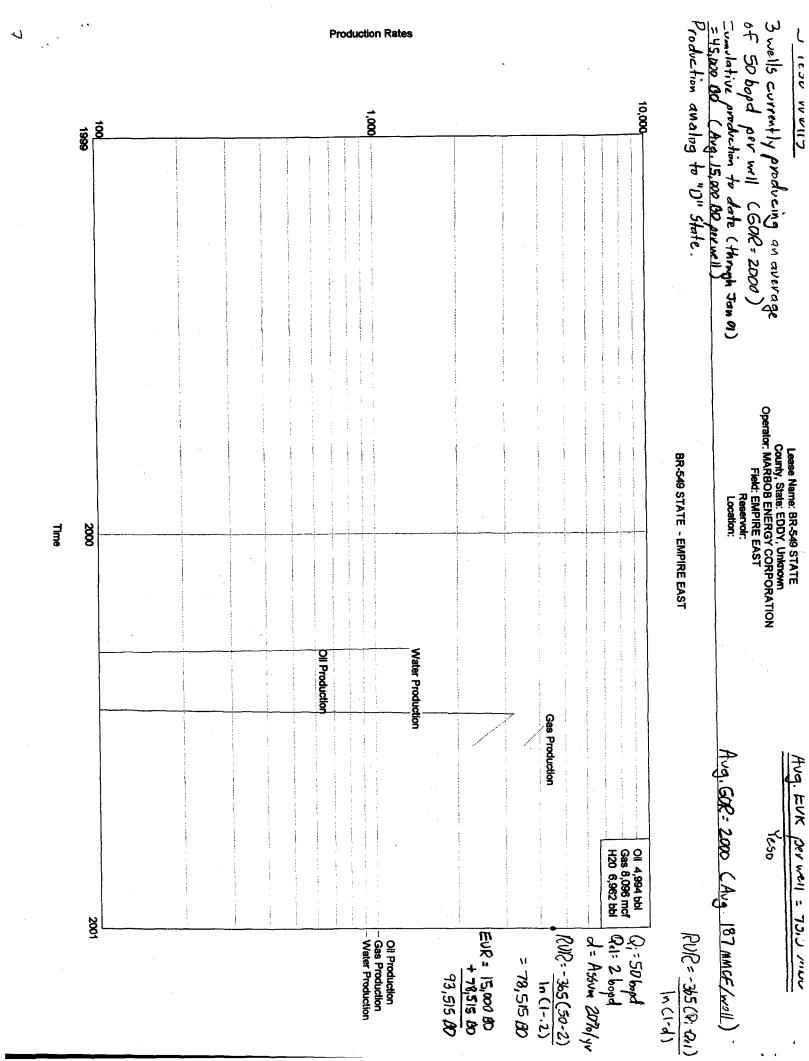
Aug. GOR = 3000 (Aug 101.7 MACF)

MULTIPLE - MULTIPLE



Time

1, 117, 470 th 33 = 33.923 fb



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

Production analog to "D" State.

Aug EUR por well = 98.4 MBO

Avg. 60R: 1350 (Avg. 132,8 mmcF/~

**MUSKEGON SOUTH STATE - EMPIRE EAST** 

100,000 10,000 1,000 8 1998 1999 Oil Production
Gas Production Water Production 200 Oil 25,042 bbl Gas 33,157 mcf H20 66,649 bbl 2001 EUR/wll= 196,792 2 = 98,396 80 RUP: -365(110-5) EUR: 25,042 + 171,750 196,792 BO Oil Production

- Gas Production

- Water Production (n Cl-d)
Q; = 110 bopd
Qui= 5 hopd
d= 20%/jr. RUR = -365 (9:-001) = 171,750 BO

Time

"D" State #10

OPERATOR: MARBOB ENERGY CORPORATION	OGRID:	014049	Idoaa	NOTTO	-		DISPOSITI	DISPOSITION OF OIL, GAS,		GAS, AND WATER
	INJECTION	—	PRODU	PRODUCTION			DISPOSITI	i OF	,410	OIL, GAS, AND
	8 9 10	i	13	14	15   16    c	17	18	19 OIL	<u>8</u>	ON 20
POOL NO. AND NAME PROPERTY NO. AND NAME	<u>o                                    </u>	0 0	BBLS OF	GAS		POINT OF			HAND AT	
	D VOLUMB PRESSURE	RE D ENSATE E PRODUCED 2	PRODUCED	PRODUCED PRODUCED (MCF)		E TION   F	API GRAV	. 40 Tean	OF MONTH (	MONTH (BBLS/MCF)
į										
023299 RIO BRAVO FEE		<del></del> -								
001 B-30-10S-28E 30-005-63171	দ্য	1124	0	<u> </u>	31					
					0	2821527	42.1		545	545 1400
96830 ARTESIA GLORIETTA YESO 006533 SAMEDAN STATE					<u>-</u> -					
002 0-27-17S-28E 30-015-30773	ъ	135	5 220	276	31	<b>-</b>				
					<b>≨</b> Ω0	1267010 1267030 1267050	35.3 1328		191	191 163 276 220
024888 T.H. STATE										
001 F-34-17S-28E 30-015-30762	М	203	1210	417	31					
					<b>₹</b> ი0	2824488 2824489	35.7 1403		174	174 173 417 1210
025375 D STATE										
001 M-25-17S-28E 30-015-31257	ъ	1676	76 3941	1958	<u> </u>		· <del></del>			
002 P-26-17S-28E 30-015-31421	ъ	1136	2698	868	<u>u</u>					
003	טי	1189	99 2486	1179	31				<del></del>	
005 M-26-17S-28E 30-015-31422	קי	1054	3008	690	31	·				
007 C-35-17S-28E 30-015-31423	ы	1189	9 2412	823	31		<del></del>			

OPERATOR: MARBOB ENERGY CORPORATION	OGRID:	D: 014049							MONTH/YEAR 05/01	10/50	TAGE	of Of
	INJECTION	ON		PRODUCTION	NOI	-		DISPOSIT	DISPOSITION OF OIL,	GAS, AND WATER	ATER	; ; ;
7	9	10  11	12	13	14	15   16	17	16	19	20	21  2	2) 23
POOL NO. AND NAME							<u></u>		OIL ON			<u>ဂ</u>
PROPERTY NO. AND NAME WELL NO. AND U-L-S-T-R	D VOLUME PRESSURE			BBLS OF O	PRODUCED PRO	DAYS C	DISPOSI-	OR OIL	BEGINNING	MUTOA	PORTER	O OIL ON HAND D AT END OF
	H 20	NM	B PRODUCED PRODUCED				E TION	API GRAV		(BBLS/MCF)		E MONTH
008 B-35-17S-28E 30-015-31424	lg gr		1054	10182	1735	31						
009 A-35-17S-28E 90-015-31425	<b>P</b>		1676	3717	1624	31		·	·····			<b></b> ,
010 p-36-178-28E 井 0	P		1163	10666	1913	31	38 books	1/344 hood		Di section		
017 K-35-178-28E 30-015-31426	ष		1379	11350	2314	31		- 1				
018 L-35-17S-28E 30-015-30977	ਥ		1108	12258	1068	31						
019 J-34-17S-28E 30-015-31389	ъ		1432	3742	1535	31		<del>/-</del>				
021 I-25-178-28E 30-015-30975	ъ		1082	10331	1246	31		$\sim$			·	
026 J-25-17S-28E 30-015-31586	ъ		1704	3941	1936	31						
						<b>₹</b> ΩΟ	2825596 2825597	38.8 10 <b>4</b> 1	416	16904 18889 80732	015694 001009 0	<u> </u>
25702 LP STATE					<del></del> -			·				
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003 M-06-18S-28E 30-015-31087	ъ		121	2498	141	31				·		
			·			<b>ଽ</b> ଉଠ	2826075 2820676	34.9 1188	292	357 706 4996	034019 036785 0	<del></del>
96831 CEDAR LAKE; YESO			<del></del> -		·							

### New Mexico Oil Conservation Division—Enginnering Bureau Administrative Application Process Documentation

Date Application Received:	7/23/01 7/25/01
Date of Preliminary Review:	7/25/01
(Note: Must be within 10-days of received date)	
Results:Application Complete	Application Incomplete
Date Incomplete Letter Sent:	
Deadline to Submit Requested Information:	
Phone Call Date:	
(Note: Only applies is requested data is not submitted	within the 7-day deadline)
Phone Log Completed?Yes	No
Date Application Processed:	No 7/25/01
Date Application Returned:	
(Note: Only as a last resort & only after repeated attention)	mpts by the Division to obtain