W. Jones

12.30.08

NEW MEXICO OIL CONSERVATION DIVISION 1 - Engineering Bureau - 1220 South St. Francis Drive, Santa Fe, NM 87505



		ADMINISTRATIVE APP	LICATION CHECKLIST						
TI	HIS CHECKLIST IS		CATIONS FOR EXCEPTIONS TO DIVISION RULES AN	D REGULATIONS					
Appilo	[DHC-Do	yms: Standard Location] [NSP-Non-Standard Swnhole Commingling] [CTB-Lease (Pool Commingling] [OLS - Off-Lease [WFX-Waterflood Expansion] [PM [SWD-Salt Water Disposal] [I	l Proration Unit] [SD-Simultaneous Dedic Commingling] [PLC-Pool/Lease Commi	ngling] nt]					
[1]	TYPE OF [A]	APPLICATION - Check Those Which Location - Spacing Unit - Simultan NSL NSP SD							
	Che [B]	eck One Only for [B] or [C] Commingling - Storage - Measuren TDHC CTB PLC	nent DLS DLM						
	[C]	Injection - Disposal - Pressure Incre	·						
	[D]	Other: Specify							
[2]	NOTIFICA [A]	ATION REQUIRED TO: - Check Thos Working, Royalty or Overridin							
	[B]	Offset Operators, Leaseholders	Offset Operators, Leaseholders or Surface Owner						
	[C]	Application is One Which Rec	uires Published Legal Notice						
	[D]	Notification and/or Concurren U.S. Bureau of Land Management - Commission	t Approval by BLM or SLO						
	[E]	For all of the above, Proof of Notification or Publication is Attached, and/or,							
	[F]	☐ Waivers are Attached							
[3]		ACCURATE AND COMPLETE INFO	DRMATION REQUIRED TO PROCES	S THE TYPE					
	al is <mark>accurat</mark> e		nation submitted with this application for a edge. I also understand that no action will re submitted to the Division.						
	No		dual with managerial and/or supervisory capacity.						
	AN COLLINS		PETROLEUM ENGINEER	12/19/08					
Print o	r Type Name	Signature	Title	Date					
			bcollins@marbob.com						
			e-mail Address						

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-107A Revised May 15, 2000

District II

District III
1000 Rio Brazon Rond, Aztee, NM 87410

Oil Conservation Division

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

APPLICATION TYPE X_Single Well Establish Pre-Approved Pools EXISTING WELLBORE

District IV 1220 S. Sl. Francis Dr., Santa Fe, NM 87505	APPLICATION FOR DO	EXISTING WELLBORE X—Yes—No			
			DAC-4141		
MARBOB ENERGY CORPORATION Operator	P O BO	X 227 ARTES A	NM 88210		
FOSTER EDDY		17S - R31E	EDDY		
Lease		-Section-Township-Range	County		
OGRID No. 14049 Property (Code 6514 A	API No. <u>30-015-26308</u> Le	ase Type: X Federal State		
DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE		
Pool Name	Grayburg Jackson 7R-Q-GB-SA		Cedar Lake Yeso		
Pool Code	28509		96831		
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	2882-3845' Perf 3484-3513' Sqzd		4756-5484' Perf		
Method of Production (Flowing or Artificial Lift)	A/L		A/L		
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 zon:)	~100 psi producing BHP well is pumped off		~100 psi producing BHP well is pumped off		
Oil Gravity or Gas BTU (Degree API or Gas BTU)	il Gravity or Gas BTU gree API or Gas BTU) 35.1° API		37.9° API		
Producing, Shut-In or New Zone	Producing		Producing		
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history, applicant shall be required to attach product on estimates and supporting data.)	Date: see engineering summary Rates:	Date:	Date: see engineering summary Rates:		
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.)	27 % 5 %	% %	73 % 95 %		
	<u>ADDITIO</u>	NAL DATA			
Are all working, royalty and overriding If not, have all working, royalty and over			Yes_XNo YesNo		
Are all produced fluids from all commis	ngled zones compatible with each	other?	YesX No		
Will commingling decrease the value of	f production?		Yes NoX		
If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands or the United States Bureau of Land Management been notified in writing of this application? Yes X No					
NMOCD Reference Case No. applicable to this well: N/A					
Attachments: C-102 for each zone to be comming Production curve for each zone for. For zones with no production histor Data to support allocation method of Notification list of working, royalty Any additional statements, data or committee.	at least one year. (If not available, y, estimated production rates and or formula. and overriding royalty interests for	attach explanation.) supporting data. or uncommon interest cases.			
	PRE-APPRO	OVED POOLS			
If application is	to establish Pre-Approved Pools, t	he following additional information	will be required:		
List of other orders approving downhol List of all operators within the proposed Proof that all operators within the proposed Bottomhole pressure data.	l Pre-Approved Pools				
I hereby certify that the information	above is true and complete to	the best of my knowledge and b	pelief.		

Kini Callie title PETROLEUM ENGINEER DATE 12/19/08

TYPE OR PRINT NAME BRIAN COLLINS

TELEPHONE NO. (575) 748-3303

Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

DISTRICT I P.O. Box 1980, Hobbs, NM 88240 OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

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

WELL LQCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator		······································		· · · · · · · · · · · · · · · · · · ·	Loase				Well No.	
Marbob Energy Corp.			F	ster Ed	ddy		10			
Unit Letter	Section		Township		Range			County		
F	17		17 Sou	th	-	l East	NMPM	Ed	dy	
Actual Footage Loca	ation of We	<u></u>	<u> </u>		<u> </u>		NATAN			
1650	feet from		West	line and	23	10	fact from	the North	line	
Ground level Elev.	7000 11000		Formation	11110 41115	Pool		ion ioni	<u> </u>	Dedicated Acre	age:
3718.6		San A	ndres		Grba Ja	ackson S	SR Q Grbg SA		40	Acres
	the acres		to the subject w	all by colored per						Auts
			·	•			reof (both as to worki	ng interest and	royalty).	
3. If more	e than one	lease of diff	erent ownership i	is dedicated to the	well, have th	e interest of a	all owners been consol	idated by comm	minitization,	İ
unitizat		pooling etc								
7	Yes			namer is "yes" ty			77		·	
	if neccess		and tract coercif	ATIONS ALOCU DEAG	actually been	COMPOSITING.	. (Use reverse side of			
			the well until a	l interests have b	een consolidat	ad (by comm	unitization, unitization	forced-poolin	g. or otherwise)	
			nituting such inte					, como parame	.	
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Engineering Summary Form C-107A Application for Downhole Commingling

Marbob Energy Corporation

Foster Eddy 6 (C-17-17S-31E)

Foster Eddy 7 (B-17-17S-31E)

Foster Eddy 8 (C-17-17S-31E)

Foster Eddy 9 (J-17-17S-31E)

Foster Eddy 10 (F-17-17S-31E)

Foster Eddy 11 (J-17-17S-31E)

Marbob Energy proposes the following zonal allocation between the Grayburg San Andres (Grayburg Jackson 7R-Q-GB-SA 28509) and the Yeso (Cedar Lake Yeso 96831) in the captioned wells. We propose to use the same zonal allocation for each well for simplicity, since the Grayburg San Andres and Yeso were commingled on the initial completion without separate zonal testing. No zonal crossflow has occurred because these wells have been rod pumped in a pumped down condition.

To determine the zonal allocation, we calculated the estimated ultimate recoveries (EUR) for the nearby Grayburg San Andres wells and our nearby Yeso wells and used the EUR ratios to calculate the percentage allocations for oil and gas.

Grayburg San Andres: (Production plots with calculations attached)

		EUR	EUR
Relative Location	No. Wells	Oil	Gas
East, West, South Offsets	16	919 MBO	484 MMCF
North Offsets	7	339 MBO	205 MMCF
Total	23	1258 MBO	689 MMCF

EUR/well = 55 MBO / 30 MMCF

Yeso: (Production plots with calculations attached)

			EUR	EUR
Lease	Relative Location	No. Wells	Oil	Gas
Tony Federal	East, Southeast	29	4428 MBO	15558 MMCF
Lee Federal	South	29	4500 MBO	19482 MMCF
Coffee Federal	East	9	1267 MBO	3151 MMCF
Total		67	10195 MBO	38191 MMCF

EUR/well = 152 MBO / 570 MMCF

Zonal Allocation:

Grayburg San Andres Oil : <u>55 MBO</u> = .266 say 27%

55 + 152 MBO

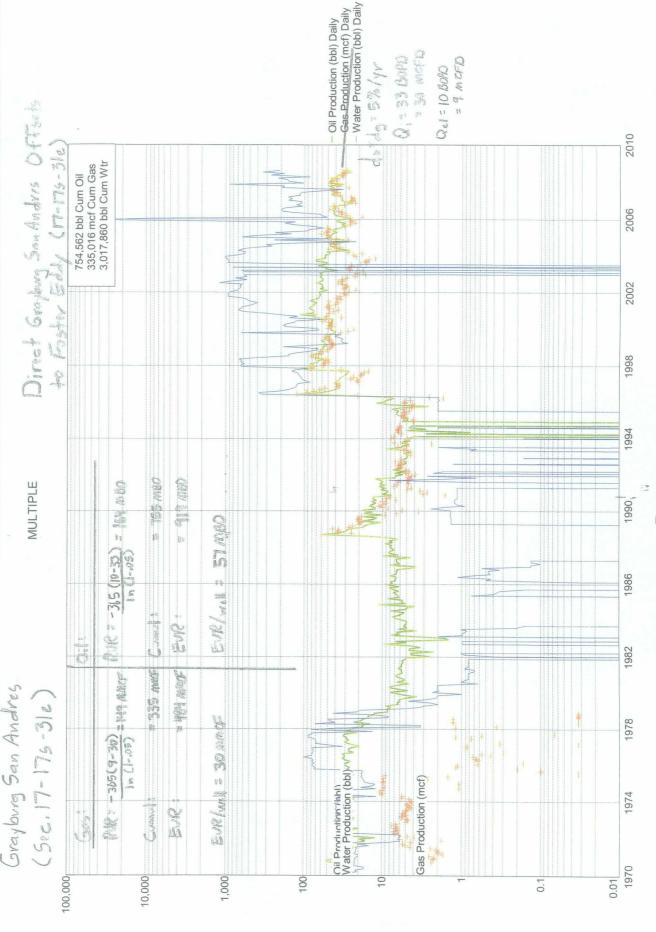
Yeso Oil : 100 - 27 = 73%

Grayburg San Andres Gas : 30 MMCF = .05 say 5%

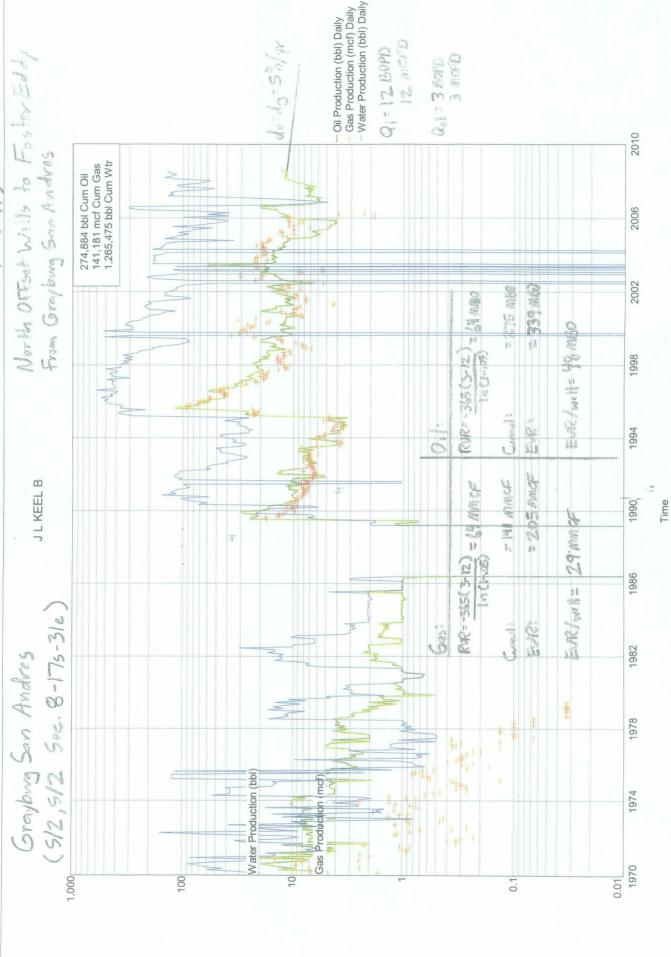
30 + 570 MMCF

Yeso Gas : 100 - 5 = 95%



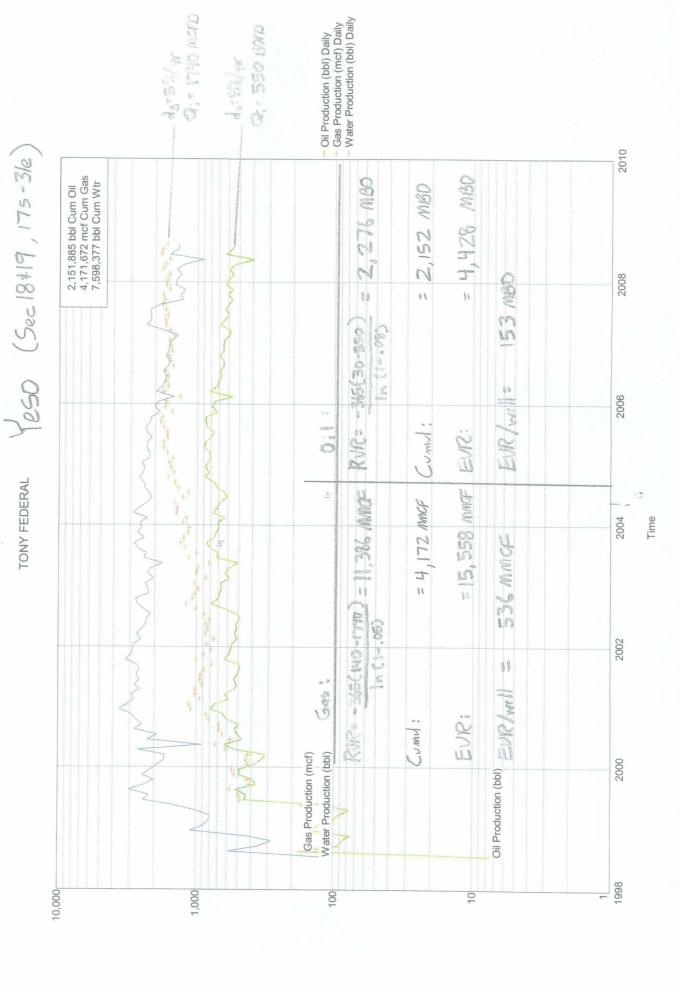


Wells Lease Name: JL KEEL B
County, State: EDDY, NM
Operator: MERIT ENERGY COMPANY
Field: GRAYBURG JACKSON Reservoir: SEVEN RIVERS QUEEN-G J L KEEL B Location: Graybug San Andres

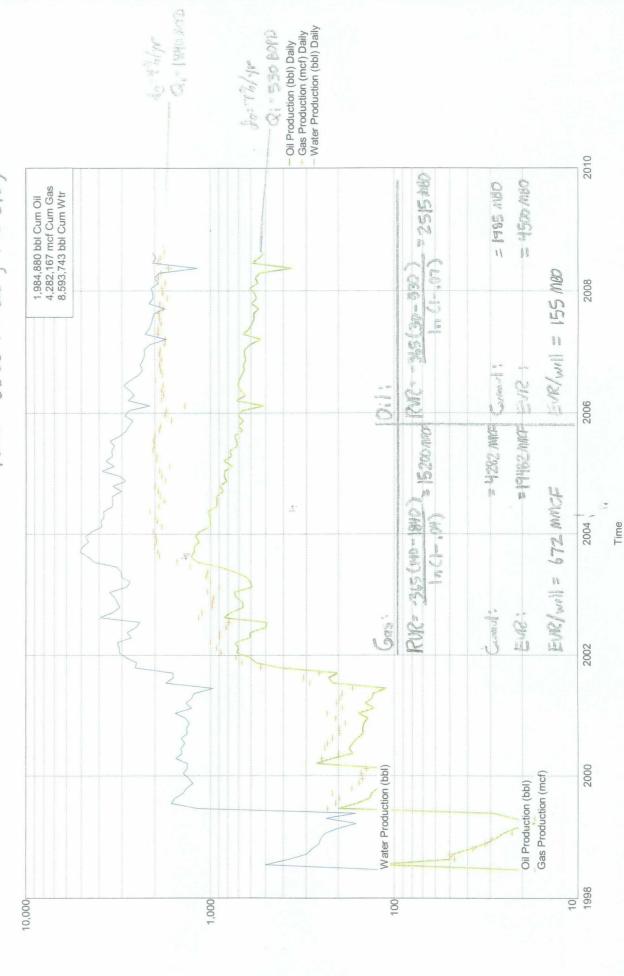


Lease Nam^{le}: TONY FEDERAL County, State: EDDY, NM Operator: MARBOB ENERGY CORPORATION Field: MULTIPLE Reservoir: MULTIPLE Location:

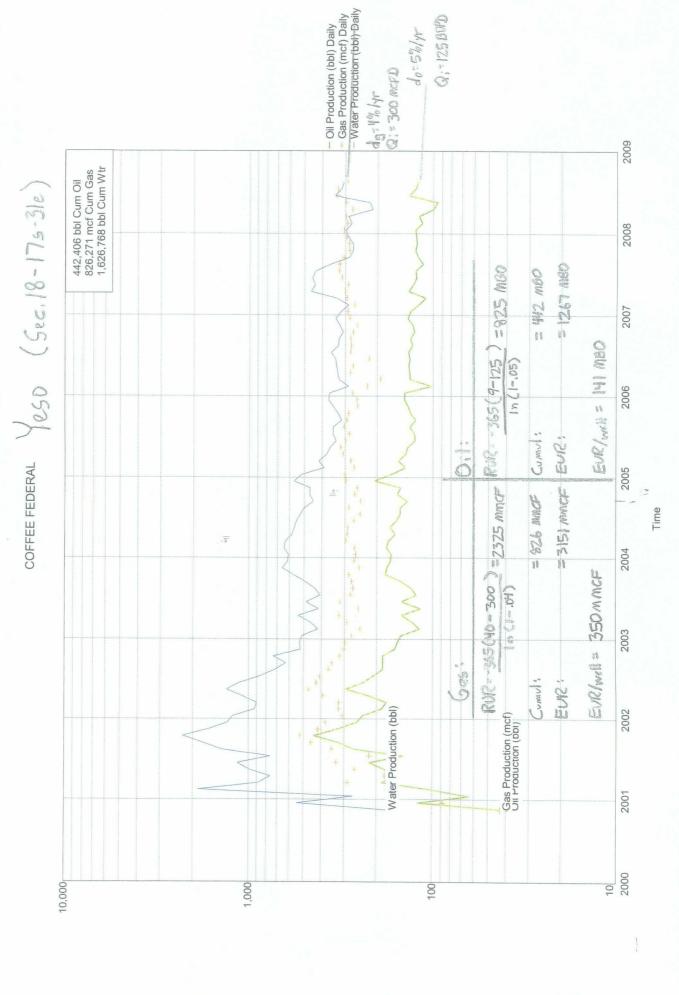
Y S



LEE FEDERAL YESO (Sec 17\$20, 175-3/e)



Lease Name. COFFEE FEDERAL
County, State: EDDY, NM
Operator: MARBOB ENERGY CORPORATION
Field: CEDAR LAKE
Reservoir: YESO
Location:



Submit 3 Copies To Appropriate District Office	State of New Mexico	
District I'	Energy, Minerals and Natural F	esources June 19, 2008 WELL API NO.
1625 N. French Dr., Hobbs, NM 88240 District II	OH CONCEDIATION DU	20.015.26209
1301 W. Grand Ave., Artesia, NM 88210 District III	OIL CONSERVATION DIV	5 Indicate Type of Lease
1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St. Francis	STATE FEE
District IV 1220 S. St. Francis Dr., Santa Fe, NM	Santa Fe, NM 87505	6. State Oil & Gas Lease No.
87505		
	CES AND REPORTS ON WELLS SALS TO DRILL OR TO DEEPEN OR PLUG BA	7. Lease Name or Unit Agreement Name
DIFFERENT RESERVOIR. USE "APPLIC	CATION FOR PERMIT" (FORM C-101) FOR SU	
PROPOSALS.)	Cos Wall D Other	8. Well Number 10
 Type of Well: Oil Well Name of Operator 	Gas Well Other	9. OGRID Number
•	B ENERGY CORPORATION	14049
3. Address of Operator POBO	X 227	10. Pool name or Wildcat
ARTES	IA NM 88211-0227	GRAYBURG JACKSON; SR-Q-G-SA
4. Well Location		
Unit Letter F : 23	feet from the <u>NORTH</u>	line and 1650 feet from the WEST line
Section 17	Township 17S Ran	
	11. Elevation (Show whether DR, RKE	, RT, GR, etc.)
	3718.6' GR	
12 Check A	Appropriate Box to Indicate Nature	of Notice Report or Other Data
12. Check F	appropriate box to indicate Natur	e of Notice, Report of Other Data
NOTICE OF IN	TENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK	_	MEDIAL WORK ALTERING CASING
TEMPORARILY ABANDON DULL OR ALTER CASING		MMENCE DRILLING OPNS.☐ P AND A ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
DOWNHOLE COMMINGLE	MOLTIFLE COMPL	SING/CEMENT JOB
		
OTHER: DOWNHOLE COMMING		HER:
		ent details, and give pertinent dates, including estimated date mpletions: Attach wellbore diagram of proposed completion
or recompletion.	rk). SEE ROLE 1103. For Muniple Co	inpletions. Attach we noove diagram of proposed completion
SEE ATTACHED C-107A API	PLICATION FOR DOWNHOLE COMM	MINGLING
THE PROPOSED ALLOCATION	ON IS: GRAYBURG JACKSON 7R-Q	GB-SA 28509 - OIL 27% - GAS 5%
	CEDAR LAKE YESO 96831 -	OIL 73% - GAS 95%
NEW ALLOCATIONS WELL	BE SUBMITTED IF ACTUAL WILL F	DODUCTION IS SIGNIFICANTLY
DIFFERENT THAN THAT AE		RODUCTION IS SIGNIFICANTLY
I hereby certify that the information a	above is true and complete to the best of	my knowledge and belief.
CIONATURE //	elle.	N. FLIM ENGINEER DAME AND ASSESSED
SIGNATURE / hards	TITLE PETRO	DLEUM ENGINEER DATE 12/19/08 .
Type or print name BRIAN CC	DLLINS E-mail address: bcc	ollins@marbob.com PHONE: 575-748-3303 .
For State Use Only		
APPROVED BY:	TITLE	DATE

Conditions of Approval (if any):

Form 3160-5 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR BLIBEAU OF LAND MANAGEMENT

FORM APPROVED OMB No. 1004-0137 Expires: July 31, 2010

BUREAU OF LAND MANAGEMENT 5. Lease Serial No. NMLC049998 (A) SUNDRY NOTICES AND REPORTS ON WELLS 6. If Indian, Allottee or Tribe Name Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals. 7. If Unit of CA/Agreement, Name and/or No. SUBMIT IN TRIPLICATE - Other instructions on page 2. 1. Type of Well 8. Well Name and No. Oil Well Gas Well Other FOSTER EDDY #9 2. Name of Operator
MARBOB ENERGY CORPORATION 9. API Well No. 30-015-26273 10. Field and Pool or Exploratory Area 3a. Address 3b. Phone No. (include area code) P O BOX 227 ARTESIA NM 88211-0227 GRAYBURG JACKSON; SR-Q-GRBG-SA 575-748-3303 Location of Well (Footage, Sec., T., R., M., or Survey Description) SEC. 17-T17S-R30E 11. Country or Parish, State EDDY COUNTY, NM 2310 FSL 1650 FEL, UNIT J 12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION Water Shut-Off Acidize Dcepen Production (Start/Resume) ✓ Notice of Intent Well Integrity Alter Casing Fracture Treat Reclamation Other DOWNHOLE **New Construction** Recomplete __ Casing Repair Subsequent Report COMMINGLING Temporarily Abandon Change Plans Plug and Abandon Water Disposal Final Abandonment Notice Convert to Injection Plug Back 13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.) SEE ATTACHED C-107A APPLICATION FOR DOWNHOLE COMMINGLING THE PROPOSED ALLOCATION IS: GRAYBURG JACKSON 7R-Q-GB-SA 28509 - OIL 27% - GAS 5% CEDAR LAKE YESO 96831 - OIL 73% - GAS 95% NEW ALLOCATIONS WILL BE SUBMITTED IF ACTUAL WELL PRODUCTION IS SIGNIFICANTLY DIFFERENT THAN THAT ABOVE. 14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

BRIAN COLLINS

Title PETROLEUM ENGINEER

Date 12/19/2008

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false.

fictitious or fraudulent statements or representations as to any matter within its jurisdiction