12:30.08

ABOVE THIS LINE FOR DIVISION USE ONLY

### NEW MEXICO OIL CONSERVATION DIVISIONEL

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

30-015-26187 110-11-11-15-26187 Warbob 14049

THIS	CHECKLIST IS N	MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR	OR EXCEPTIONS TO DIVISION RULES AND	REGULATIONS
		WHICH REQUIRE PROCESSING AT THE DIVIS		
	[DHC-Dow [PC-Po	ndard Location] [NSP-Non-Standard Proration Inhole Commingling] [CTB-Lease Comming Indicated Comming [OLS - Off-Lease Storage [WFX-Waterflood Expansion] [PMX-Pressu [SWD-Salt Water Disposal] [IPI-Inject Ilified Enhanced Oil Recovery Certification]	iling] [PLC-Pool/Lease Commin ] [OLM-Off-Lease Measuremen ire Maintenance Expansion] ion Pressure Increase]	gling) t)
[1] 1	TYPE OF A	PPLICATION - Check Those Which Apply fo	or [A]	
]	[A]	Location - Spacing Unit - Simultaneous Ded  NSL NSP SD		·
	Checl	c One Only for [B] or [C]		
	[B]	Commingling - Storage - Measurement  DHC CTB PLC PC	C OLS OLM	
	[C]	Injection - Disposal - Pressure Increase - Enl WFX PMX SWD II		
	[D]	Other: Specify		
[2] N	NOTIFICAT [A]	TION REQUIRED TO: - Check Those Which Working, Royalty or Overriding Royalt		
	[B]	Offset Operators, Leaseholders or Surfa	ce Owner	
	[C]	Application is One Which Requires Pub	olished Legal Notice	
	[D]	Notification and/or Concurrent Approva		
	[E]	<b>X</b> For all of the above, Proof of Notification	on or Publication is Attached, and/o	or,
	[F]	Waivers are Attached		
		CURATE AND COMPLETE INFORMATI ATION INDICATED ABOVE.	ON REQUIRED TO PROCESS	ТНЕ ТҮРЕ
pproval:	is <b>accurate</b> a	<b>TION:</b> I hereby certify that the information sund <b>complete</b> to the best of my knowledge. I alquired information and notifications are submit	so understand that no action will b	
	Note	Statement must be completed by an individual with m	nanagerial and/or supervisory capacity.	
	COLLINS	1/2mx Willer	PETROLEUM ENGINEER	12/19/08
Print or Ty	ype Name	Signature	Title	Date
			bcollins@marbob.com	
			e-mail Address	

District I 1025 N. French Drive, Hobbs, NN 88240

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-107A Revised May 15, 2000

District II

1301 W, Grand Avenue, Artesia, NM 88210

District III
1080 Rio Brazon Road, Azton, NM 87430

District IV 1220 S. St. Francis Dr., Santa Fe, NM 47505

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 CORPORATION Decretor	P O BO	X 227 ARTESIA, N	NM 88210 DHG 4
FOSTER EDDY		7S - R31E	EDDY
ease		-Section-Township-Range	County
OGRID No. <u>14049</u> Property ( ee	Code 6514 A	API No. 30-015-26187 Leas	e 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)	2888-3813' Perf		4720-5171' Perf 5477-5999' beneath CIBP
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 zone)	~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)	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 production 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
han current or past production, supporting data or explanation will be required.)	27 % 5 %	% %	73 % 95 %
	<u>ADDITIO</u>	NAL DATA	
re all working, royalty and overriding not, have all working, royalty and ove			Yes_X No Yes No
re all produced fluids from all commit	ngled zones compatible with each	other?	Yes_X No
ill commingling decrease the value of	production?		Yes NoX
this well is on, or communitized with the United States Bureau of Land Ma	•		Yes_XNo
MOCD Reference Case No. applicable	e to this well: <u>N/A</u>		
tachments: C-102 for each zone to be comming Production curve for each zone for a For zones with no production histor Data to support allocation method o Notification list of working, royalty Any additional statements, data or d	at least one year. (If not available, y, estimated production rates and s r formula. and overriding royalty interests fo	attach explanation.) supporting data.	
	PRE-APPRO	OVED POOLS	
If application is t	o establish Pre-Approved Pools, th	ne following additional information w	ill be required:
st of other orders approving downhole st of all operators within the proposed pof that all operators within the propo attomhole pressure data.	Pre-Approved Pools	••	
ereby certify that the information	above is true and complete to t	he best of my knowledge and beli PETROLEUM ENGINEER	ef.
GNATURE // Zur	Melle TITLE_	PETROLEUM ENGINEER	DATE 12/19/08

TELEPHONE NO. (575) 748-3303

Sübmit 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 I-1-89

DISTRICT I P.O. Box 1980, Hobbs, NM \$8240

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

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 8/4/J

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator		T					Weil No.	<del></del>
Marbob Energy Co	rp.		Foster	Eddy			8	
Unit Letter Section	Township	1	Range			County		
C 17	17 South	<u>l</u>	31 East	. NB	PM.	Edd	ly	
Actual Pootage Location of Well:							•	
	North	line and	1650	feet	rom th	West	line	
1	ng Formation	11	Pool				Dedicated Acre	ete:
	ndres	<u>[</u>	rbg Jacks	son SR Q Grbq	SA		40	Acres
1. Outline the acreage declicate 2. If more than one lease is do 3. If more than one lease of di unitization, force-pooling, of Yes If answer is "no" list the owne this form if necessary. No allowable will be assigned	dicated to the well, outling fferent ownership is dedicate.?  No If maswer is and tract descriptions were to the well until all interests.	e each and is cated to the v is "yes" type which have a sats have been	destify the owner well, have the inte of consolidation ctually been cons n consolidated (b	rest of all owners been of objected. (Use reverse single communitization, uniting	onsolid le of	ated by comm	sunitization,	
370 0.2'	- ¬3703.5'	es been appr	oved by the Divis		7	l hereby Lained hereis	OR CERTIFIC certify that the in true and codes and belief.	u information
To the state of th			<del> </del>		Pos Cor Ma Des	rbob Er	on Clerk Dergy Corp	
		- COLONE PRE	ALIO DE LA COLONIA DE LA COLON		on act sup cor bell.	ereby certify this plat wo not surveye vervison, and vect to the	that the well as plotted from made by me it that the sam best of my it	location shows of field notes of or under my e is true and tracelladge and tra
0 330 660 990 1320 1650	1980 2310 2640	2000	1500	1000 500	C	rtifičate No.	JOHN W. WE	•

# 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.

<u>Grayburg San Andres:</u> (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: \_\_\_55 MBO\_\_\_ = .266 say 27%

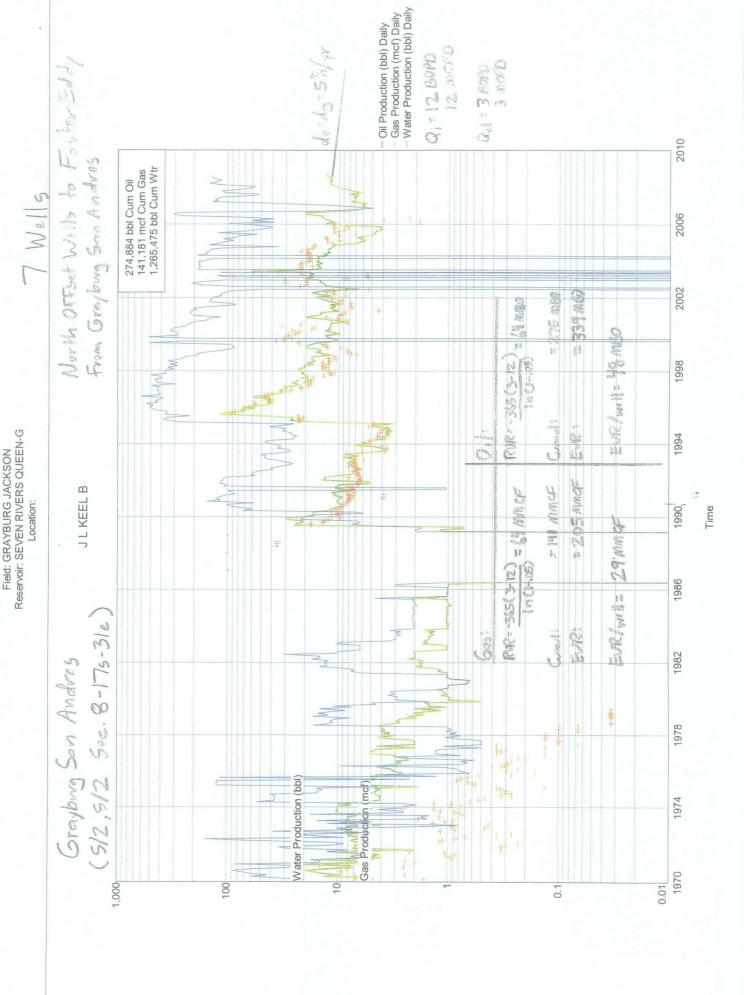
55 + 152 MBO

Yeso Oil : 100 - 27 = 73%

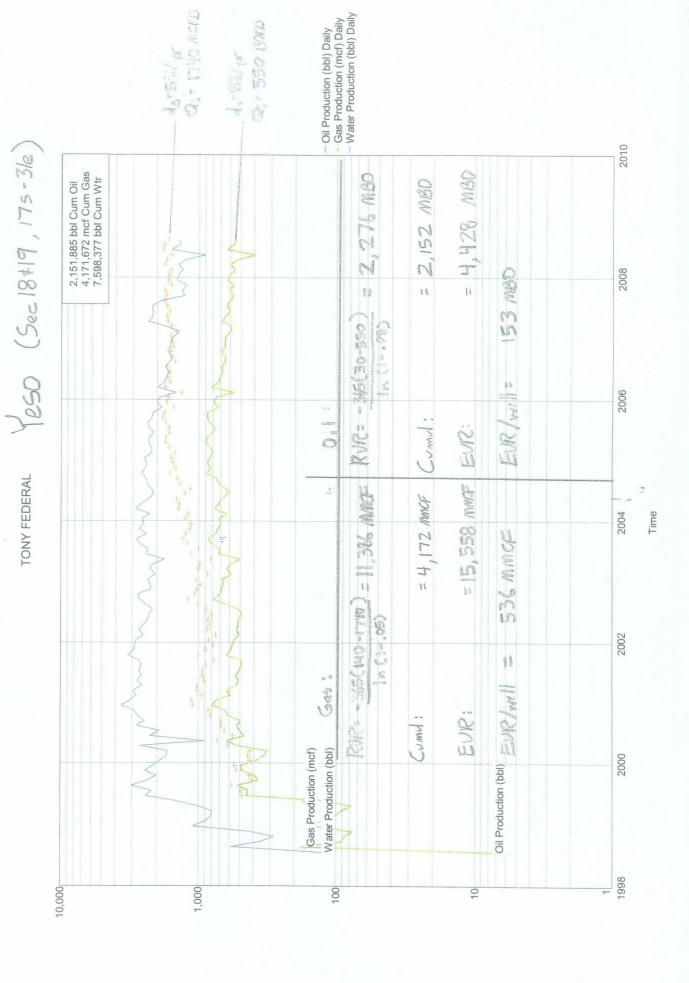
30 MMCF 30 + 570 MMCF Grayburg San Andres Gas: = .05 say 5%

Yeso Gas : 100 - 5 = 95%

Time



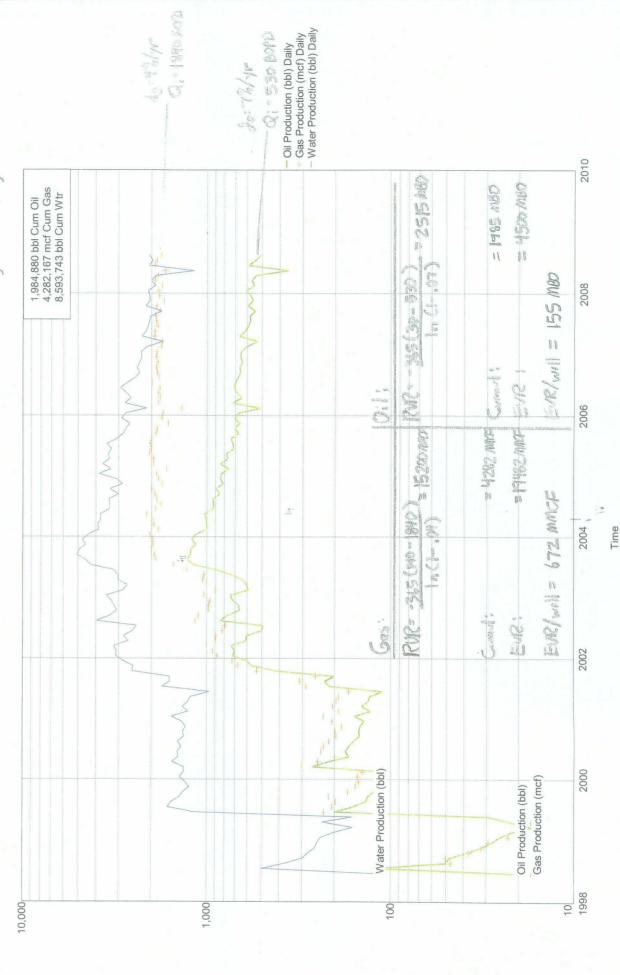
Lease Name: J L KEEL B County, State: EDDY, NM Operator: MERIT ENERGY COMPANY Lease Name: TONY FEDERAL
County, State: EDDY, NM
Operator: MARBOB ENERGY CORPORATION
Field: MULTIPLE
Reservoir: MULTIPLE
Location:

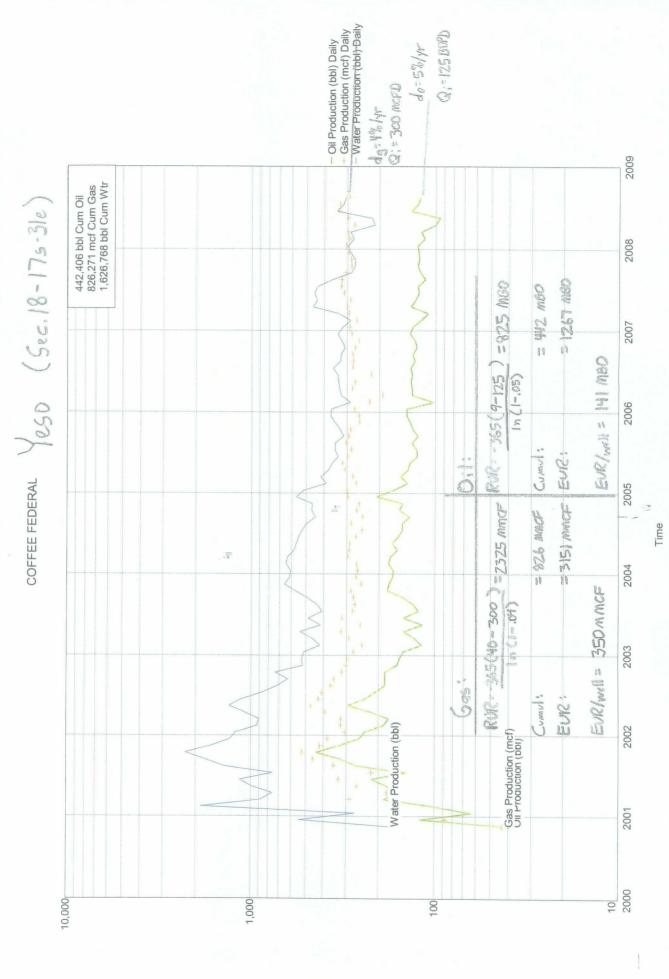


Lease Name: LEE FEDERAL
County, Sfate: EDDY, NM
Operator: MARBOB ENERGY CORPORATION
Field: MULTIPLE
Reservoir: MULTIPLE
Location:

3 5







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

Submit 3 Copies To Appropriate District Office District I	State of New Energy, Minerals and N			Form C-103 June 19, 2008
1625 N. French Dr., Hobbs, NM 88240	2		WELL API NO.	
District II 1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION	ON DIVISION	30-015-26187  5. Indicate Type of Lease	
District III	1220 South St. F	rancis Dr.		FEE 🗍
1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u>	Santa Fe, NM	87505	6. State Oil & Gas Lease	
1220 S. St. Francis Dr., Santa Fe, NM 87505				
SUNDRY NOTI (DO NOT USE THIS FORM FOR PROPOSE DIFFERENT RESERVOIR. USE "APPLIC		PLUG BACK TO A	7. Lease Name or Unit A FOSTER EDDY	greement Name
PROPOSALS.)  1. Type of Well: Oil Well	Gas Well  Other		8. Well Number 8	
2. Name of Operator	Cas well Other		9. OGRID Number	
	B ENERGY CORPORATION		14049	
3. Address of Operator P O BOX ARTES	X 227 IA NM 88211-0227		10. Pool name or Wildca GRAYBURG JACKSON	
4. Well Location				
Unit Letter C: 3	30feet from theNORTH	line and <u>165</u>		<u>EST</u> line
Section 17	Township 17S	Range 31E	NMPM EDDY	County
	11. Elevation (Show whether 2 3701.2' GR	DR, RKB, RT, GR, etc.)		
	3701.2 GK		48.7 · 6.36.77 (c. 33.57 k)	
12. Check A	Appropriate Box to Indicate	Nature of Notice,	Report or Other Data	
NOTICE OF IN PERFORM REMEDIAL WORK  TEMPORARILY ABANDON PULL OR ALTER CASING DOWNHOLE COMMINGLE	TENTION TO: PLUG AND ABANDON  CHANGE PLANS  MULTIPLE COMPL	REMEDIAL WORK COMMENCE DRII CASING/CEMENT	LLING OPNS. P AND	RING CASING 🔲
OTHER: DOWNHOLE COMMING  13. Describe proposed or comp of starting any proposed wo or recompletion.		OTHER: all pertinent details, and tiple Completions: Att	I give pertinent dates, inclu tach wellbore diagram of pr	ding estimated date roposed completion
SEE ATTACHED C-107A API	PLICATION FOR DOWNHOL	E COMMINGLING		
THE PROPOSED ALLOCATION	ON IS: GRAYBURG JACKSO CEDAR LAKE YESO			
NEW ALLOCATIONS WELL DIFFERENT THAN THAT AE		WILL PRODUCTION	I IS SIGNIFICANTLY	
		1	11.1'.C	
I hereby certify that the information a		e best of my knowledge	e and belief.	
SIGNATURE / huils	whe' TITLE_	PETROLEUM ENGI	NEER DATE 12/19	9/08 .
Type or print name BRIAN CC For State Use Only	DLLINS E-mail address:	bcollins@marbob	o.com PHONE:	575-748-3303 .
APPROVED BY:  Conditions of Approval (if any):	TITLE	<u> </u>	DATE	

Form 3160-5 (August 2007)

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

5. Lease Serial No. NMLC049998 (A)

Do not use this	NOTICES AND REP form for proposals Use Form 3160-3 (A		6. If Indian, Allottee or Tribe Name			
SUBMI	T IN TRIPLICATE – Othe	7. 1	7. If Unit of CA/Agreement, Name and/or No.			
I. Type of Well				8. Well Name and No. FOSTER EDDY #8		
2. Name of Operator MARBOB ENERGY CORPORA	TION		9. <i>1</i> 30	API Well No. -015-26187		
3a. Address PO BOX 227 ARTESIA NM 88211-0227  3b. Phone No. (include area code) 575-748-3303				10. Field and Pool or Exploratory Area GRAYBURG JACKSON; SR-Q-GRBG-SA		
4. Location of Well (Footage, Sec., T. SEC. 17-T17S-R30E 330 FNL 1650 FWL, UNIT C	R.,M., or Survey Description	1)		Country or Parish, St.	ate	
12. CHE	CK THE APPROPRIATE B	OX(ES) TO INDICATE NATURE	OF NOTICE, I	REPORT OR OTHER	DATA	
TYPE OF SUBMISSION		TYP	E OF ACTION			
Notice of Intent	Acidize Alter Casing	Deepen Fracture Treat	Reclamat		Water Shut-Off Well Integrity	
Subsequent Report	Casing Repair Change Plans	New Construction Plug and Abandon	Recomple	rily Abandon	Other DOWNHOLE COMMINGLING	
Final Abandonment Notice	Convert to Injection	Plug Back	Water Di	•		
determined that the site is ready for SEE ATTACHED C-107A APP THE PROPOSED ALLOCATION	or final inspection.)  LICATION FOR DOWNHOON IS: GRAYBURG JACK CEDAR LAKE YES  SUBMITTED IF ACTUAL	(SON 7R-Q-GB-SA 28509 - OIL SO 96831 - OIL 73% - GAS 95% L WELL PRODUCTION IS SIGN	27% - GAS 5	%	ompleted and the operator has	
	rue and correct. Name (Printe					
BRIAN COLLINS Signature	Men'	Date 12/19/200	EUM ENGINE	EK		
	THIS SPACE	FOR FEDERAL OR STA	TE OFFICI	E USE		
Approved by						
	Title		Date			
Conditions of approval, if any, are attache that the applicant holds legal or equitable tentitle the applicant to conduct operations	itle to those rights in the subje					
Title 18 U.S.C. Section 1001 and Title 43 fectitious or fraudulent statements or repre			willfully to mal	ke to any department or	ragency of the United States any false,	