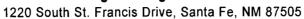
26. March.07

PCLP0708573715

ABOVE THIS LINE FOR DIVISION USE ON

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -





		ADMINISTRATIVE APPLI	CATION CHECKLIS	ST
T	HIS CHECKLIST IS M	ANDATORY FOR ALL ADMINISTRATIVE APPLICATI WHICH REQUIRE PROCESSING AT THE		RULES AND REGULATIONS
Appli	[DHC-Dov PC-P		oration Unit] [SD-Simultaneou mingling] [PLC-Pool/Lease C orage] [OLM-Off-Lease Meas essure Maintenance Expansion jection Pressure Increase]	commingling] urement] on] 200
[1]	TYPE OF AF	PPLICATION - Check Those Which Application - Spacing Unit - Simultaneou NSL NSP SD		1 23 AM
	Check [B]	One Only for [B] or [C] Commingling - Storage - Measuremen DHC CTB PLC	t] PC 🔲 OLS 🔲 OLM	11 14
	[C]	Injection - Disposal - Pressure Increase WFX PMX SWD	e - Enhanced Oil Recovery IPI EOR PPR	
	[D]	Other: Specify		
[21	NOTIFICAT [A]	ION REQUIRED TO: - Check Those W Working, Royalty or Overriding F		pply
	[B]	Offset Operators, Leaseholders or	Surface Owner	
	[C]	Application is One Which Require	es Published Legal Notice	
	[D]	Notification and/or Concurrent Ap U.S. Bureau of Land Management - Commissioner of		
	[E]	For all of the above, Proof of Noti		ched, and/or,
	[F]	☐ Waivers are Attached		
[31		CURATE AND COMPLETE INFORMATION INDICATED ABOVE.	MATION REQUIRED TO PI	ROCESS THE TYPE
[41 appro applie	oval is accurate :	TION: I hereby certify that the informat and complete to the best of my knowledgequired information and notifications are	ge. I also understand that no ac	ntion for administrative tion will be taken on this
	Note:	Statement must be completed by an individual	with managerial and/or supervisory	capacity.
Jerry	W. Sherrell	Jeny W. Sheno	Production Clerk	3/19/07
Print	or Type Name	Signature	Title	Date
			jerrys@mackenergycorp e-mail Address	.com



Post Office Box 960 Artesia, NM 88211-0960 Office (505) 748-1288 Fax (505) 746-9539

March 19, 2007

Oil Conservation Division Attn: Will Jones 1220 South St. Francis Dr. Santa Fe. NM 87505

Re:

Downhole Commingling, and measurement of

Hydrocarbon Production for:

Raven State #4

Section 9, T18S, R34E Lea County, New Mexico

Mack Energy Corporation as operator of the aforementioned well respectfully requests administrative approval for down hole commingling and measurement of production.

Mack Energy Corporation proposes to commingle Vacuum; Bone Spring, West and Vacuum; Grayburg-San Andres production in the Raven State #4 well (B-10784). Production of all pools will be measured at the Raven State TB located in the SW/4 NW/4, Sec. 9 T18S R34E. This lease has common interest in all affected pools. Notification has been made to all parties owning an interest in this lease, including the oil purchaser, of the intent to commingle. Testing will be conducted and allocation percentages will be sent to OCD after completion of this well. The subtraction method will be used to allocate production based on increased production from the added zone.

Should you require any additional information concerning this application, please call Jerry W. Sherrell at the above number. Thank you for your consideration of this request.

Sincerely,

MACK ENERGY CORPORATION

Jerry W. Sherrell Production Clerk

jerrys@mackenergycorp.com

JWS/ Enclosures

Cc: Oil Conservation Division-Hobbs Commissioner of Public Lands State of New Mexico

Form C-107A Revised June 10, 2003

District 11

1301 W. Grand Avenue, Artesia, NM 88210

District III
1000 Rio Brazos Road, Aztec, NM 874 1 0

E-MAIL ADDRESS jerrys@mackenergycorp.com

District IV

Energy, Minerals and Natural Resources Department

Oil Conservation Division

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

X Single Well
Establish Pre-Approved Pools
EXISTING WELLBORE
X Yes No

1220 S. St Francis Dr., Santa Fe, NM 87505	APPLICATION FOR DO	WNHOLE COMMINGLING	Tes No					
		(DHC-38	67					
Mack Energy Corporation		O. Box 960, Artesia, NM 8821	1-0960					
Operator	Add							
Raven State Lease	4 E-9-18S	-34E Section-Township-Range	Lea County					
			•					
OGRID No. 013837 Property Co	ode 3465 / API No. 30-023	5-38203 Lease Type:	Federal X State Fee					
DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE					
Pool Name	Vacuum;Bone Spring, West							
PoolCode	62180		61910					
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	4860-5400'		6489.5-6553.5'					
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)								
Oil Gravity or Gas BTU (Degree API or Gas BTU)								
Producing, Shut-In or New Zone	New Zone		Producing					
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history,	Date:	Date:	Date: 3/14/07					
applicant shall be required to attach production estimates and supporting data.)	Rates:	Rates:	Rates: 29/30/300					
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or put production, supporting data or explanation will be required.)	oil Parcosays Lale	Oil Gas	oil Gaster aler 100 %					
	ADDITIO	NAL DATA						
	 -		v					
Are all working, royalty and overriding If not, have all working, royalty and over the control of the control o			Yes No					
Are all produced fluids from all comm	ingled zones compatible with each	other?	YesX No					
Will commingling decrease the value of	of production?		Yes No.X					
If this well is on, or communitized wit or the United States Bureau of Land M			Yes No					
NMOCD Reference Case No. applicab	le to this well:							
Attachments: C- 1 02 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-APPROVED POOLS								
If application is	s to establish Pre-Approved Pools, t	he following additional information v	vill be required:					
List of other orders approving downhole commingling within the proposed Pre-Approved Pools List of all operators within the proposed Pre-Approved Pools Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application. Bottornhole pressure data.								
I hereby certify that the information	I hereby certify that the information above is true and complete to the best of my knowledge and belief							
SIGNATURE Jerry W	Shend TITLE Pro	oduction Clerk	DATE 3/19/07					
TYPE OR PRINT NAME Jerry W	. Sherrell	TELEPHONE NO. (_	505) 748-1288					

MEMO

DATE:

March 19, 2007

TO:

NMOCD

FROM:

Ron Lanning

Land Manager

Mack Energy Corporation

SUBJECT:

Raven State Lease

Lea County, New Mexico

Our Raven State Lease covers the N/2 of Section 4, T18S, R34E. Working interests, royalty interests, and overriding royalty interests are common to all depths on the lease.

RWL

State of New Mexico

DISTRICT I 1625 N. PRENCH DR., HOBBS, NM 88240

Energy, Minerals and Natural Resources Department

Form C-102

Revised October 12, 2005

DISTRICT II 1301 W. GRAND AVENUE, ARTESIA, NM 88210

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

OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505

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

DISTRICT IV

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

1220 S. ST. FRANCIS DR., SANTA PR., NM 87505	WELL LOCATION AI	ND ACKEAGE DEDICATIO	II I LLAI	☐ AMENDED REPORT
API Number	Pool Code		Pool Name	
30-025-38203	62180 Vacuum; Grayb			n Andres
Property Code		Weil Number		
34657	RA	į	4	
OGRID No.			Elevation	
013837	MACK ENI	ERGY CORPORATION	4052	

Surface Location

UL or lot No.	Section	Township	Range	Lot idn	Feet from the	North/South line	Feet from the	East/West line	County
E	9	18-S	34-E		2310	NORTH	330	WEST	LEA

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 of	r Infill C	onsolidation	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

OR A NON-STANDARD UNIT HAS BEEN	APPROVED BY THE DIVISION
3300	OPERATOR CERTIFICATION I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hale location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. January January 3/16/07
GEODETIC COORDINATES NAD 27 NME Y=642146.4 N X=733902.8 E	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 supervision, and that the same is true and correct to the best of my belief.
LAT. = 32.763043* N LONG. = 103.572436* W	DECEMBER 4, 2006 Date Surveyed Signature & Seat of Professional Surveyor AND MANCHO (B/15/06) O6.11,1904 Certificate No. GARY EIDSON 12841 17777

DISTRICT I 1825 N. FRENCH DR., HOBBS, NM 88240

1301 W. GRAND AVENUE, ARTESIA, NM 88210

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT II

DISTRICT III

State of New Mexico

Energy, Minerals and Natural Resources Departmen

OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505

Form C-102

Revised October 12, 2005

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

DISTRICT IV 1220 S. ST. FRANCIS DR., SANTA FR, NM 87505	WELL LOCATION AND A	ACREAGE DEDICATION PLAT	□ AMENDED REPORT
API Number	Pool Code	Pool Name	
30-025-38203	61910	Vacuum; Bone Spring	, West
Property Code	Prope	rty Name	Well Number
34657	RAVEN	N STATE	4
OGRID No.	Opera	tor Name	Elevation
013837	MACK ENERG	4052'	

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	9	18-S	34-E		2310	NORTH	330	WEST	LEA

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 or Infill Consolidation Code			ode 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
330v		OPERATOR CERTIFICATION I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Jack Jack 3/16/07
	GEODETIC COORDINATES NAD 27 NME Y=642146.4 N X=733902.8 E	I hereby certify that the well location abown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.
	LAT.=32.763043* N LONG.=103.572436* W	DECEMBER 4, 2006 Date Surveyed HARCRO LA Signature & Seal of Professional Surveyor Professional Surveyor 06.11.1904 Certificate No. GARY EIDSON 12841 17777