



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

2006 OCT 27 PM 12 43

October 25, 2006

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

Re: Downhole Commingling, and measurement of  
Hydrocarbon Production for:  
Vacuum State #1  
Section 22, T17S, R35E  
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 proposes to commingle Vacuum;Blinebry,NE, Vacuum;Glorietta and Vacuum;Grayburg-San Andres production in the Vacuum State #1 well (V-6331). Production of all pools will be measured at the Vacuum State TB located in the NE/4 SE/4, Sec. 22 T17S R35E. This lease has common interest in all 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 zones.

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](mailto:jerrys@mackenergycorp.com)

JWS/  
Enclosures

Cc: Oil Conservation Division-Hobbs  
Commissioner of Public Lands

ABOVE THIS LINE FOR DIVISION USE ONLY

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



**ADMINISTRATIVE APPLICATION CHECKLIST**

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

**Application Acronyms:**

- [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
- [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
- [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
- [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
- [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
- [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

- [1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]
- [A] Location - Spacing Unit - Simultaneous Dedication  
 NSL  NSP  SD
- Check One Only for [B] or [C]
- [B] Commingling - Storage - Measurement  
 DHC  CTB  PLC  PC  OLS  OLM
- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  
 WFX  PMX  SWD  IPI  EOR  PPR
- [D] Other: Specify \_\_\_\_\_

- [2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or  Does Not Apply
- [A]  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] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that no action will be taken on this application until the required information and notifications are submitted to the Division.

**Note: Statement must be completed by an individual with managerial and/or supervisory capacity.**

Jerry W. Sherrell		Production Clerk	10/25/06
Print or Type Name	Signature	Title	Date
		jerrys@mackenergycorp.com	
		e-mail Address	

District I  
1621 N. French Drive, Hobbs, NM 88240

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-107A  
Revised June 10, 2003

District II  
1301 W. Grand Avenue, Artesia, NM 88210

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

APPLICATION TYPE

Single Well

District III  
1000 Rio Brazos Road, Artec, NM 87410

Establish Pre-Approved Pools

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

EXISTING WELLBORE

Yes  No

APPLICATION FOR DOWNHOLE COMMINGLING

*DAC 3818*

Mack Energy Corporation

P.O. Box 960, Artesia, NM 88211-0960

Operator

Address

Vacuum State

1

I-22-17S-35E

Lea

Lease

Well No.

Unit Letter-Section-Township-Range

County

OGRID No. 013837 Property Code 35973 API No. 30-025-30509 Lease Type:  Federal  State  Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Vacuum;Grayburg-San Andres	Vacuum;Glorietta	Vacuum;Blinbry,Northeast
PoolCode	62180	62160	97021
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	4000-6000'	6222-6950'	6970-7716'
Method of Production (Flowing or Artificial Lift)	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	New Zone	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: _____ Rates: _____	Date: _____ Rates: _____	Date: <u>10/18/06</u> Rates: <u>8/N/A/66</u>
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or put production, supporting data or explanation will be required.)	Oil _____ Gas <u>Later</u> %	Oil _____ Gas <u>Later</u> %	Oil _____ Gas <u>Later</u> %

**ADDITIONAL DATA**

Are all working, royalty and overriding royalty interests identical in all commingled zones? Yes  No   
If not, have all working, royalty and overriding royalty interest owners been notified by certified mail? Yes  No

Are all produced fluids from all commingled zones compatible with each other? Yes  No

Will commingling decrease the value of production? Yes  No

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  No

NMOCD Reference Case No. applicable 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 to establish Pre-Approved Pools, the following additional information will 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.
- Bottomhole pressure data.

I hereby certify that the information above is true and complete to the best of my knowledge and belief

SIGNATURE Jerry W. Sherrell TITLE Production Clerk DATE 10/25/06

TYPE OR PRINT NAME Jerry W. Sherrell TELEPHONE NO. ( 505 ) 748-1288

E-MAIL ADDRESS jerrys@mackenergycorp.com

# MEMO

DATE: October 25, 2006

TO: Will Jones  
NMOCD

FROM: Ron Lanning  
Mack Energy

SUBJECT: Vacuum State No. 1 Well  
Lea County, New Mexico

All working and royalty interests are common from the surface to total depth in the Vacuum State No. 1 Well located in the NE/4 SE/4 Section 22, T17S, R35E.

A handwritten signature in black ink, appearing to read 'Ron Lanning', with a long, sweeping underline.

RWL

District I  
1625 N. French Dr., Hobbs, NM 88240

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

State of New Mexico  
EnerRy, Minerals & Natural Resources

OIL CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, NM 87505

Form C-102  
Revised March 17, 1999

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number 30-025-30509		'Pool Code 62180		'Pool Name Vacuum; Grayburg-San Andres	
'Property Code 35973		'Property Name Vacuum State			'Well Number 1
'GRID No. 013837		'Operator Name Mack Energy Corporation			'Elevation 3931'

Surface Location

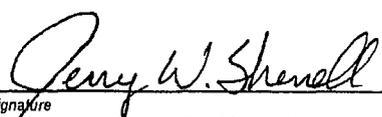
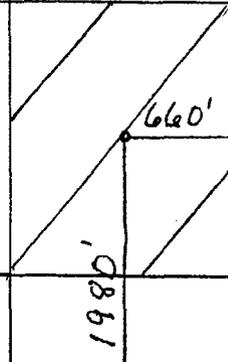
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	22	17S	35E		1980	South	660	East	Lea

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 40	"joint or Infill	"Consolidation Code	"Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL XL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16						" OPERATOR CERTIFICATION				
						I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief				
						 Signature Jerry W. Sherrell				
						Printed Name Production Clerk				
					Title 9/15/06					
					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 supervision, and that the same is true and correct to the best of my belief.					
										
					Date of Survey Signature and Seal of Professional Surveyer.					
					Certificate Number					

District I  
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AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number 30-025-30509		'Pool Code 62160		'Pool Name Vacuum;Glorietta	
'Property Code 35973		'Property Name Vacuum State			'Well Number 1
'OGRID No. 013837		'Operator Name Mack Energy Corporation			'Elevation 3931'

HI Surface Location

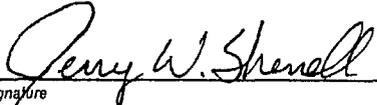
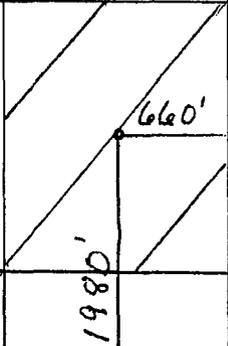
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	22	17S	35E		1980	South	660	East	Lea

" 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 40	" joint or Infill	" Consolidation Code	" Order No.
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					 Signature Jerry W. Sherrell	
					Printed Name Production Clerk	
					Title 9/15/06 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 supervision, and that the same is true and correct to the best of my belief.		
						
				Date of Survey Signature and Seal of Professional Surveyer.		
				Certificate Number		

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WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number 30-025-30509		'Pool Code 97021		'Pool Name Vacuum; Blinebry, NE	
'Property Code 35973		'Property Name Vacuum State			'Well Number 1
'OGRID No. 013837		'Operator Name Mack Energy Corporation			'Elevation 3931'

Surface Location

UL or lot no.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County
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" Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County

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16					" OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</i>	
					<i>Jerry W. Sherrell</i> Signature Jerry W. Sherrell	
					Printed Name Production Clerk	
					Title 9/15/06 Date	
				" SURVEYOR CERTIFICATION <i>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.</i>		
				Date of Survey Signature and Seal of Professional Surveyer.		
				Certificate Number		

660'  
1980'