

DATE IN <b>1/5/06</b>	SUSPENSE	ENGINEER <b>J. W. SHERRELL</b>	LOGGED IN <b>1/5/06</b>	TYPE <b>DHC</b>	APP NO. <b>PTDS0700556415</b>
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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 \_\_\_\_\_

### [21] 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

### [31] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[41] **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  
 Print or Type Name

*Jerry W. Sherrell*  
 Signature

Production Clerk  
 Title

1/3/07  
 Date

jerrys@mackenergycorp.com  
 e-mail Address



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

January 3, 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:  
Mustang State #2  
Section 18, T17S, R36E  
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;Blinbry,NE, Vacuum;Glorietta and Vacuum;Grayburg-San Andres production in the Mustang State #2 well (V-6493). Production of all pools will be measured at the Mustang State TB located in the SW/4 SE/4, Sec. 18 T17S R36E. 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 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

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

DISTRICT II  
611 South First, Artesia, NM 88210

DISTRICT III  
1000 Rio Grande Ed., Artesia, NM 87410

DISTRICT IV  
2040 South Pacheco, Santa Fe, NM 87506

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
Revised March 17, 1999

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

OIL CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-37436	Pool Code 97021	Pool Name Vacuum; Blinbry, Northeast
Property Code 32681	Property Name MUSTANG STATE	Well Number 2
OGED No. 013837	Operator Name MACK ENERGY CORPORATION	Elevation 3905'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	18	17 S	36 E		977	SOUTH	1681	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.						

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

	<b>OPERATOR CERTIFICATION</b>  I hereby certify the 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 10/17/06 Date
	<b>SURVEYOR CERTIFICATION</b>  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.  OCTOBER 5, 2005 Date Surveyed  Signature & Seal of Professional Surveyor W.S. No. 5886 Certificate No. 7977 BASIN SURVEYS

DISTRICT 1  
1626 N. French Dr., Hobbs, NM 88240

DISTRICT II  
811 South First, Artesia, NM 88210

**DISTRICT III**  
1000 Rio Grande Rd., Artes, NM 87410

**DISTRICT IV**  
2040 South Pagham, Santa Fe, NM 87506

State of New Mexico  
Energy, Minerals and Natural Resources Department

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Revised March 17, 1969

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## OIL CONSERVATION DIVISION

2040 South Pacheco  
Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-37436		Pool Code 62160	Pool Name Vacuum; Glorietta
Property Code 32681	Property Name MUSTANG STATE		Well Number 2
OGRID No. 013837	Operator Name MACK ENERGY CORPORATION		Elevation 3905'

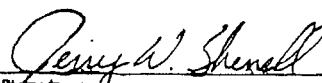

### Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	18	17 S	36 E		977	SOUTH	1681	EAST	LEA

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<div style="border: 1px dashed black; height: 400px; margin-bottom: 20px;"></div> <div style="position: relative; height: 150px;"> <div style="position: absolute; top: 10px; right: 10px; text-align: right;">             LAT - N32°49'48.2"              LONG - W103°23'25.4"              NMSPC - N 666970                        E 789650              (NAD 27)           </div> <div style="position: absolute; bottom: 10px; right: 10px;"> <div style="border: 1px solid black; width: 100px; height: 100px; display: flex; align-items: center; justify-content: center;"> <div style="text-align: center;"> <div style="width: 10px; height: 10px; border: 1px solid black; border-radius: 50%; margin: 0 auto;"></div> <div style="width: 1px; height: 100px; background: linear-gradient(to bottom, transparent 49%, black 49%, black 51%, transparent 51%); margin: 0 auto;"></div> <div style="width: 10px; height: 10px; border: 1px solid black; border-radius: 50%; margin: 0 auto;"></div> </div> <div style="margin-left: 10px;"> <div style="text-align: center;">1681'</div> <div style="text-align: center;">977'</div> </div> </div> </div> </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <h3 style="text-align: center; margin: 0;">OPERATOR CERTIFICATION</h3> <p style="font-size: small; margin: 5px 0;">I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <div style="margin-top: 10px;"> <div style="text-align: center; font-family: cursive; font-size: 1.2em; margin-bottom: 5px;">  </div> <div style="display: flex; justify-content: space-between;"> <span>Signature</span> <span></span> </div> <div style="margin-top: 10px;"> <div style="text-align: center; margin-bottom: 5px;">Jerry W. Sherrell</div> <div style="display: flex; justify-content: space-between;"> <span>Printed Name</span> <span></span> </div> <div style="margin-top: 10px;"> <div style="text-align: center; margin-bottom: 5px;">Production Clerk</div> <div style="display: flex; justify-content: space-between;"> <span>Title</span> <span></span> </div> <div style="margin-top: 10px;"> <div style="text-align: center; margin-bottom: 5px;">10/17/06</div> <div style="display: flex; justify-content: space-between;"> <span>Date</span> <span></span> </div> </div> </div> </div> </div></div>
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DISTRICT I  
1625 N. French Dr., Hobbs, NM 88240

DISTRICT II  
511 South First, Artesia, NM 88210

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

DISTRICT IV  
2040 South Pacheco, Santa Fe, NM 87506

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
Revised March 17, 1999

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

OIL CONSERVATION DIVISION

2040 South Pacheco  
Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-37436	Pool Code 62180	Pool Name Vacuum; Grayburg-San Andres
Property Code 32681	Property Name MUSTANG STATE	Well Number 2
DGRID No. 013837	Operator Name MACK ENERGY CORPORATION	Elevation 3905'

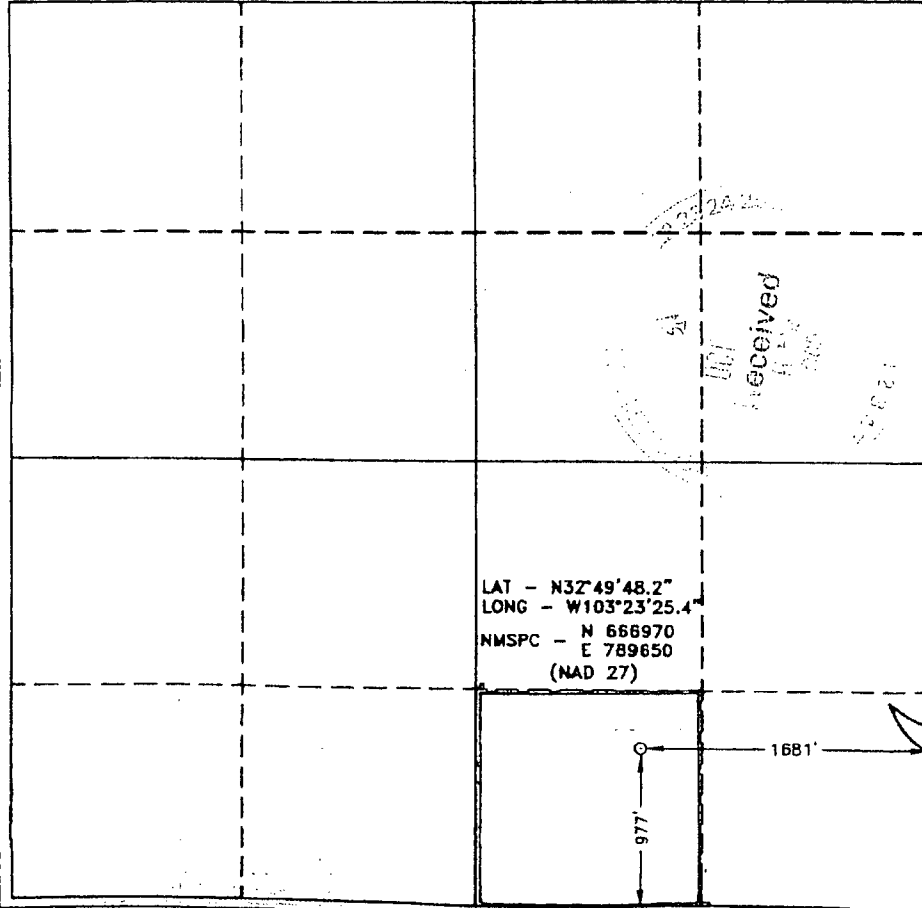
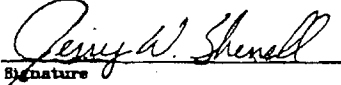

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District I  
1621 N. French Drive, Hobbs, NM 88240

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

District III  
1000 Rio Brazos Road, Aztec, NM 87410

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

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-107A  
Revised June 10, 2003

Oil Conservation Division

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

APPLICATION TYPE

☒ Single Well

☒ Establish Pre-Approved Pools

EXISTING WELLBORE

☒ Yes ☐ No

APPLICATION FOR DOWNHOLE COMMINGLING

74E-3839

Mack Energy Corporation

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

Operator

Address

Mustang State

O-18-17S-36E

Lea

Lease

Well No.

Unit Letter-Section-Township-Range

County

OGRID No. 013837 Property Code 32681 API No. 30-025-37436 Lease Type: ☐ Federal ☒ State ☐ Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Vacuum; Grayburg-San Andres	Vacuum; Glorieta	Vacuum; Blinberry, Northeast
Pool Code	62180	62160	97021
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	4690-5550'	6300-6600'	7097-7638'
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: 1/2/07 Rates: 18/N/A/22
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 _____ % %	Oil _____ Gas _____ % %	Oil _____ Gas _____ % %

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones?  
If not, have all working, royalty and overriding royalty interest owners been notified by certified mail?

Yes ☒ No ☐  
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 1/3/07

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

E-MAIL ADDRESS jerrys@mackenergycorp.com