

DATE IN 5/04/2015	SUSPENSE	ENGINEER MAM	LOGGED IN 5/11/2015	TYPE DHC	APP NO. PMA 15131247
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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 \_\_\_\_\_
- [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

- DHC 4758  
- MACK Energy Corporation  
13837  
- L-11  
Hepler Fee #1  
30-05-42350  
POU  
- LASS Draw, Bone  
Spring  
- L-015 G-06  
5232704H  
4 ppc workamp  
98125

[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.

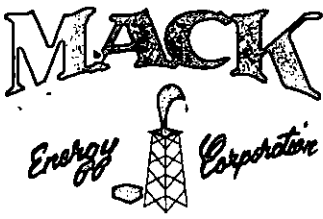
Deana Weaver  
Print or Type Name

*Deana Weaver*  
Signature

Production Clerk  
Title

may 6, 2015  
Date

dweaver@mec.com  
e-mail Address



RECEIVED OOD

P.O. Box 960  
Artesia, NM 88211-0960  
Office (575) 748-1288  
Fax (575) 746-9539

2015 MAY -8 P 3: 09

May 6, 2015

Oil Conservation Division  
Attn: Phillip R Goetze  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Re: Down Hole Commingling, and measurement of  
Hydrocarbon Production for:  
Hepler Fee #1  
Section 34, T22S, R27E  
Eddy 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 Bone Spring and Upper Wolfcamp production in the Hepler Fee #1. Production of both pools will be measured at the TB located in the NE/4 NW/4, Sec. 34 T22S R27E. This lease has common interest in both pools. Notification has been made to all parties owning an interest in this lease, including the oil purchaser of the intent to commingle. Allocation will be done using the fixed allocation percentage.

Should you require any additional information concerning this application, please call Deana Weaver at 575-748-1288. Thank you for your consideration of this request.

Sincerely,

MACK ENERGY CORPORATION

Deana Weaver  
Production Clerk  
[dweaver@mec.com](mailto:dweaver@mec.com)

DW/  
Enclosures

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

Mack Energy Corporation

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

Operator

Address

Hepler Fee

I

C-34-22S-27E

Eddy

Lease

Well No.

Unit Letter-Section-Township-Range

County

OGRID No. 013837 Property Code 40514 API No. 30-015-42350 Lease Type: ☐ Federal ☒ State ☐ Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name		Cass Draw; Bone Spring	WC-015 G-06 S232704H; Upper Wolfcamp
Pool Code		10380	98125
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)		6653-9035'	9035-9126'
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)		42.8	42.8
Producing, Shut-In or New Zone		Producing	New Zone
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: 3/1/2015 Rates: 1074/4189/2561	Date: 3/1/2015 Rates: 45/175/107
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 _____ 96 % 96 %	Oil _____ Gas _____ 4 % 4 %

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 Deana Weaver TITLE Production Clerk DATE May 6 2015

TYPE OR PRINT NAME Deana Weaver TELEPHONE NO. ( 575 ) 748-1288

E-MAIL ADDRESS dweaver@mec.com

District I  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720  
District II  
811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1253 Fax: (575) 748-9720  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-015-42350		<sup>2</sup> Pool Code 10380	<sup>3</sup> Pool Name Cass Draw; Bone Spring
<sup>4</sup> Property Code 40514	<sup>5</sup> Property Name HEPLER FEE		<sup>6</sup> Well Number 1
<sup>7</sup> OGRID No. 13837	<sup>8</sup> Operator Name MACK ENERGY CORPORATION		<sup>9</sup> Elevation 3111.5

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	34	22 S	27 E		1175	NORTH	2056	WEST	EDDY

<sup>11</sup> 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
F	34	22 S	27 E		1686	NORTH	1640	WEST	EDDY

<sup>12</sup> Dedicated Acres 40	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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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.

<p>N89°46'40"E 2639.36 FT</p> <p>NW CORNER SEC. 34 LAT. = 32.3562537°N LONG. = 104.1857972°W NMSP EAST (FT) N = 493368.29 E = 586894.25</p>		<p>N89°46'22"E 2639.11 FT</p> <p>N/4 CORNER SEC. 34 LAT. = 32.3562715°N LONG. = 104.1772516°W NMSP EAST (FT) N = 493378.52 E = 589532.97</p>		<p>NE CORNER SEC. 34 LAT. = 32.3562894°N LONG. = 104.1687069°W NMSP EAST (FT) N = 493388.98 E = 592171.45</p>	
<p>2056'</p> <p>1640'</p> <p>DNF</p>		<p>1686'</p> <p>1175'</p> <p>641.03 FT</p> <p>S38°31'13"W</p>		<p>2056'</p> <p>1640'</p> <p>DNF</p>	
<p>DNF</p> <p>BOTTOM OF HOLE</p> <p>LAT. = 32.3546614°N LONG. = 104.1805722°W NMSP EAST (FT) N = 491699.93 E = 588510.01</p>		<p>HEPLER FEE 1</p> <p>ELEV. = 3111.5'</p> <p>LAT. = 32.3530382°N (NAD83) LONG. = 104.1792774°W NMSP EAST (FT) N = 492201.35 E = 588909.14</p>		<p>DNF</p>	
<p>SW CORNER SEC. 34 LAT. = 32.3414054°N LONG. = 104.1854496°W NMSP EAST (FT) N = 487966.38 E = 586700.21</p>		<p>S/4 CORNER SEC. 34 LAT. = 32.3414594°N LONG. = 104.1778641°W NMSP EAST (FT) N = 487989.76 E = 589351.67</p>		<p>SE CORNER SEC. 34 LAT. = 32.3415144°N LONG. = 104.1692811°W NMSP EAST (FT) N = 488013.72 E = 592002.35</p>	
<p>589°29'41"W 2652.18 FT</p>		<p>589°28'55"W 2651.41 FT</p>		<p>501°48'07"W 2689.59 FT</p>	

**17 OPERATOR CERTIFICATION**

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or released 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 a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

*Diana Weaver* 5.6.15  
Signature Date

Diana Weaver  
Printed Name

dweaver@mec.com  
E-mail Address

**18 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.

JULY 28, 2014  
Date of Survey

*[Signature]*  
Signature and Seal of Professional Surveyor

Certificate Number: FTL/MON E JARAMILLO, PLS 12797  
SURVEY NO. 2616G

District I  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720  
District II  
811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1253 Fax: (575) 748-9720  
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1000 Rio Brazos Road, Aztec, NM 87410  
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District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-015-42350	<sup>2</sup> Pool Code 98125	<sup>3</sup> Pool Name WC-015 G-06 S232704H; Upper Wolfcamp
<sup>4</sup> Property Code 40514	<sup>5</sup> Property Name HEPLER FEE	<sup>6</sup> Well Number 1
<sup>7</sup> OGRID No. 13837	<sup>8</sup> Operator Name MACK ENERGY CORPORATION	<sup>9</sup> Elevation 3111.5

<sup>10</sup> Surface Location

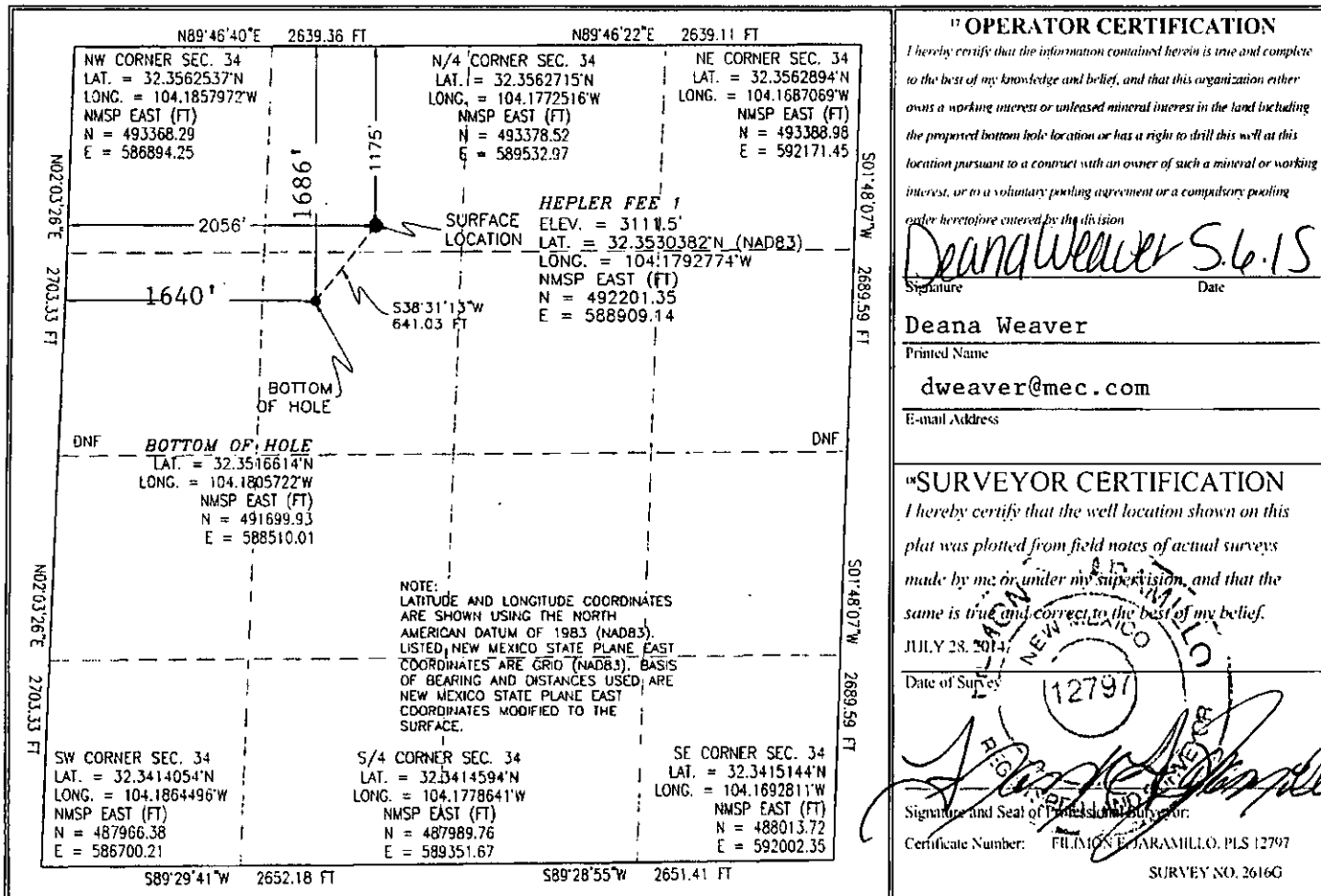
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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F	34	22 S	27 E		1686	NORTH	1640	WEST	EDDY

<sup>12</sup> Dedicated Acres	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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.



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## MEMO

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DATE: April 2, 2015

TO: NMOCD

FROM: Travis K. Lanning

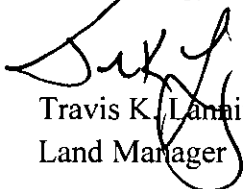
RE: Hepler Fee #1  
T22S, R27E, NMPM  
Section 34: SE/4NW/4,  
Eddy County, New Mexico

Mack Energy Corporation respectfully requests approval to downhole commingle production from the Bone Spring and Wolfcamp formations in our Hepler Fee No. 1.

All formations have identical working and revenue interests.

Please do not hesitate to contact me should you require any further information.

Sincerely,  
Mack Energy Corporation

  
Travis K. Lanning  
Land Manager

# Division Order Attachment

Owner Code	Owner Name	Addr Sub #	Net Revenue Interest	Interest Type	Susp Code	Tax Id
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Deck: 16487 Description: HEPLER FEE - REV DISTR

Inactive: No

Property: 3238 Hepler Fee

County, State: Eddy County, NM

Map Reference: Township: 022-S Range: 027-E Section: 34 Qtr/Qtr: SE/4NW/4

Effective Date: 10/01/2014 Payor: Mack Energy Corporation

016112	B&G Royalties P O Box 376 Artesia, NM 88211-0376	00001	0.00625000	ORRI	MIN	85-0418113
	US 575-746-1706					
016114	Xplor Resources, LLC 1104 North Shore Drive Carlsbad, NM 88220	00001	0.01875000	ORRI	MIN	45-2633139
	Mike Hyden US 575-302-6678					
016764	Panhandle Properties, LLC P O Box 647 Artesia, NM 88211-0647	00001	0.02500000	ORRI	MIN	45-3530132
	US 575-513-2544					
016767	Mabell V. Geer Revocable Trust Carlsbad National Bank, Trustee P O Box 1359 Carlsbad, NM 88221	00001	0.10000000	RI	MIN	85-6093065
	US 575-234-2541					
017864	John H. Williams 18212 Jackson Road Boonville, MO 65233	00001	0.10000000	RI	MIN	498-34-4198
	US 573-330-4192					
101	Chase Oil Corporation P.O. Box 1767 Artesia, NM 88211-1767	00001	0.63750000	WI	MIN	85-0403681
	US (575) 746-9853					
110	Robert C. Chase P.O. Box 297 Artesia, NM 88211-0297	00001	0.03750000	WI	MIN	585-80-7468
	US 505-748-1288					
185	Ventana Minerals LLC P. O. Box 359 Artesia, NM 88211	00001	0.03750000	WI	MIN	27-1251162
	US					
195	DiaKan Minerals LLC P. O. Box 693 Artesia, NM 88211-0693	00001	0.03750000	WI	MIN	27-1243802
	US					



P.O. Box 960  
Artesia, NM 88211-0960  
Office (575) 748-1288  
Fax (575) 746-9539

May 6, 2015

B&G Royalties  
P.O. Box 376  
Artesia, NM 88211-0376

**VIA CERTIFIED MAIL 7014 1820 0001 6619 1722**  
**CERTIFIED RETURN RECEIPT MAIL**

Dear Sir:

*This letter will serve as a notice that Mack Energy Corporation has requested administrative approval from the NMOCD to Down Hole Commingle production from the Bone Spring and Upper Wolfcamp in the Hepler Fee #1 located in Sec. 34 T22S R27E, 1175 FNL & 2056 FWL, Eddy County, New Mexico.*

*Should you have any objection, it must be filed in writing within twenty (20) days from the date of this notice. The Division Director may approve the DHC application if no objection has been made within the 20 days after the application has been received.*

Sincerely,

*Deana Weaver*

Deana Weaver  
Production Clerk  
[dweaver@mec.com](mailto:dweaver@mec.com)

DW/

Enclosures





P.O. Box 960  
Artesia, NM 88211-0960  
Office (575) 748-1288  
Fax (575) 746-9539

May 6, 2015

Xplor Resources LLC  
1104 North Shore Drive  
Carlsbad, NM 88220

**VIA CERTIFIED MAIL 7014 1820 0001 6619 1739**  
**CERTIFIED RETURN RECEIPT MAIL**

Dear Sir:

*This letter will serve as a notice that Mack Energy Corporation has requested administrative approval from the NMOCD to Down Hole Commingle production from the Bone Spring and Upper Wolfcamp in the Hepler Fee #1 located in Sec. 34 T22S R27E, 1175 FNL & 2056 FWL, Eddy County, New Mexico.*

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Sincerely,

*Deana Weaver*

Deana Weaver  
Production Clerk  
[dweaver@mec.com](mailto:dweaver@mec.com)

DW/

Enclosures



P.O. Box 960  
Artesia, NM 88211-0960  
Office (575) 748-1288  
Fax (575) 746-9539

May 6, 2015

Panhandle Properties, LLC  
P.O. Box 647  
Artesia, NM 88211-0647

**VIA CERTIFIED MAIL 7014 1820 0001 6619 1746**  
**CERTIFIED RETURN RECEIPT MAIL**

Dear Sir:

*This letter will serve as a notice that Mack Energy Corporation has requested administrative approval from the NMOCD to Down Hole Commingle production from the Bone Spring and Upper Wolfcamp in the Hepler Fee #1 located in Sec. 34 T22S R27E, 1175 FNL & 2056 FWL, Eddy County, New Mexico.*

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Sincerely,

Deana Weaver  
Production Clerk  
[dweaver@mec.com](mailto:dweaver@mec.com)

DW/

Enclosures



P.O. Box 960  
Artesia, NM 88211-0960  
Office (575) 748-1288  
Fax (575) 746-9539

---

May 6, 2015

---

Mabell V. Geer Revocable Trust  
Carlsbad National Bank, Trustee  
P.O. Box 1359  
Carlsbad, NM 88221

**VIA CERTIFIED MAIL 7014 1820 0001 6619 1753**  
**CERTIFIED RETURN RECEIPT MAIL**

Dear Sir:

*This letter will serve as a notice that Mack Energy Corporation has requested administrative approval from the NMOCD to Down Hole Commingle production from the Bone Spring and Upper Wolfcamp in the Hepler Fee #1 located in Sec. 34 T22S R27E, 1175 FNL & 2056 FWL, Eddy County, New Mexico.*

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Sincerely,

Deana Weaver  
Production Clerk  
[dweaver@mec.com](mailto:dweaver@mec.com)

DW/

Enclosures



P.O. Box 960  
Artesia, NM 88211-0960  
Office (575) 748-1288  
Fax (575) 746-9539

May 6, 2015

John H. Williams  
18212 Jackson Road  
Boonville, MO 65233

**VIA CERTIFIED MAIL 7014 1820 0001 6619 1760**  
**CERTIFIED RETURN RECEIPT MAIL**

Dear Sir:

*This letter will serve as a notice that Mack Energy Corporation has requested administrative approval from the NMOCD to Down Hole Commingle production from the Bone Spring and Upper Wolfcamp in the Hepler Fee #1 located in Sec. 34 T22S R27E, 1175 FNL & 2056 FWL, Eddy County, New Mexico.*

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Sincerely,

Deana Weaver  
Production Clerk  
[dweaver@mec.com](mailto:dweaver@mec.com)

DW/

Enclosures

## McMillan, Michael, EMNRD

---

**From:** Deana Weaver <dweaver@mec.com>  
**Sent:** Monday, May 11, 2015 10:13 AM  
**To:** McMillan, Michael, EMNRD  
**Cc:** Jerry Sherrell  
**Subject:** FW: Derrick Fee #1 Bone Spring/Wolfcamp Split Data  
**Attachments:** Den Spoon Water (2).pdf

Michael,

Mack Energy has perforated and produced some of our wells in the Carlsbad area. It was discovered that the bottom section of perforations were actually in the Wolfcamp formation. After meeting with Paul Kautz and Randy Dade to discuss this issue, we agreed to test one of the wells(Derrick Fee #1) and use this data for all wells within this area.

The water analysis for the Den SWD #1 and Spoon SWD #1 is attached.

### Isolated Wolfcamp perms, Bone Spring Production Only

Date:	Oil	Gas	Water
3/22/2015	22	154	87
3/23/2015	25	152	127
3/24/2015	25	152	117
3/25/2015	22	161	119
3/26/2015	25	134	111
3/27/2015	22	140	141
3/28/2015	25	152	85

### Commingled Wolfcamp and Bone Spring

Date:	Oil	Gas	Water
4/30/2015	28	153	146
5/1/2015	22	153	162
5/2/2015	25	161	236
5/3/2015	25	159	150

### Commingled Bone Spring and Wolfcamp Avg:

Avg: 25 Oil, 157 MCF, 173 Water

### Bone Spring Only Avg:

Avg: 24 Oil, 149 MCF, 112 Water

Avg: 96% Oil

### Wolfcamp Only Avg:

Avg: 1 Oil, 8 MCF, 61 Water  
Avg: 4% Oil