

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 \_\_\_\_\_

Mack  
 Airplane SWD #1  
 30-005-64189  
 New Well

- [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

RECEIVED  
 2014 JUN 16 P 4:17

[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

1.3.14  
 Date

Deana Weaver  
 e-mail Address

**APPLICATION FOR AUTHORIZATION TO INJECT**

I. PURPOSE: \_\_\_\_\_ Secondary Recovery \_\_\_\_\_ Pressure Maintenance  \_\_\_\_\_ Disposal \_\_\_\_\_ Storage  
Application qualifies for administrative approval?  Yes \_\_\_\_\_ No

II. OPERATOR: Mack Energy Corporation

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

CONTACT PARTY: Deana Weaver PHONE: (575)748-1288

III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.  
Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? \_\_\_\_\_ Yes  \_\_\_\_\_ No  
If yes, give the Division order number authorizing the project: \_\_\_\_\_

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data on the proposed operation, including:  
1. Proposed average and maximum daily rate and volume of fluids to be injected;  
2. Whether the system is open or closed;  
3. Proposed average and maximum injection pressure;  
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,  
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

X. Attach appropriate logging and test data on the well. (if well logs have been filed with the Division, they need not be resubmitted).

XI. **Attach a chemical analysis of freshwater from two or more freshwater wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.**

XII. **Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.**

XIII. **Applicants must complete the "Proof of Notice" section on the reverse side of this form.**

XIV. Certification: **I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.**

NAME: Deana Weaver TITLE: Production Clerk

SIGNATURE: Deana Weaver DATE: 1.3.14

\* **if the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal:** \_\_\_\_\_



**INJECTION WELL DATA SHEET**

Tubing Size: 2 7/8" Lining Material: Plastic Coated

Type of Packer: Halliburton Trump Packer

Packer Setting Depth: 10,025'

Other Type of Tubing/Casing Seal (if applicable): \_\_\_\_\_

Additional Data

1. Is this a new well drilled for injection?  Yes  No

If no, for what purpose was the well originally drilled? \_\_\_\_\_

\_\_\_\_\_

2. Name of the Injection Formation: Mississippian, Woodford, Devonian, Montoya, Simpson, Ellenburger

3. Name of Field or Pool (if applicable): \_\_\_\_\_

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. N/A

\_\_\_\_\_

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Overlying- Atoka, Underlying- Granite

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## VII. DATA SHEET: PROPOSED OPERATIONS

1. Proposed average and maximum daily rate and volume of fluids to be injected;  
**Respectively, 2000 BWPD and 4000 BWPD**
2. The system is closed or open;  
**Closed**
3. Proposed average and maximum injection pressure;  
**0-1940#**
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than re-injected produced water;  
**We will be re-injecting produced water**
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water;

N/A

## VIII. GEOLOGICAL DATA

1. Lithologic Detail; **Limestone, dolomite, sandstone, shale**
2. Geological Name; **SWD; Mississippian; Woodford; Devonian; Montoya; Simpson; Ellenburger**
3. Thickness; **1475'**
4. Depth; **10,075'-11,550'** |

## IX. PROPOSED STIMULATION PROGRAM

1. To be treated with 10000 gallons 15% acid

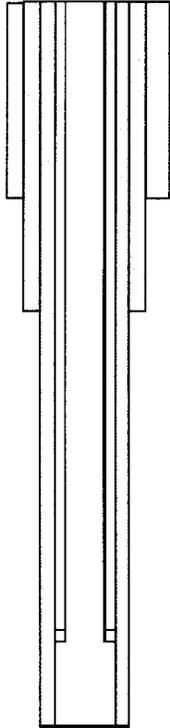
## X. LOGS AND TEST DATA

1. Well data will be filed with the OCD.

## XI. ANALYSIS OF FRESHWATER WELLS

1. Will be forwarded, when complete.

Additional Information  
Waters Injected: San Andres



13 3/8" casing @ 200', Cem w/250sx,  
circ

8 5/8" casing @ 2280', Cem /1000sx,  
circ

2 7/8" PC tubing @ 10,025'  
Set w/ 10k Nickel Plated PKR

Perfs from 10,075-11,550'

5 1/2" casing @ 11,700', Cem w/1600sx  
circ

TD @ 11,700'

Airplane SWD #1  
Sec. 32 T14S R29E  
1320' FSL & 760' FEL

Formation Tops:

- Top Salt- 200'
- Base Salt- 790'
- Yates- 915'
- Seven Rivers- 1150'
- Queen- 1665'
- Grayburg- 2000'
- San Andres- 2280'
- Glorieta- 3725'
- Tubb- 5100'
- Abo- 5825'
- Wolfcamp- 7050'
- Canyon- 8500'
- Strawn- 8860'
- Atoka- 9100'
- Chester- 9550'
- Woodford- 10150'
- Devonian- 10250'
- Montoya- 11050'
- Simpson- 11150'
- Ellenburger- 11200'
- Base Ellenburger- 11550'

Handwritten notes:  
 $11200 + 100 \rightarrow 11300 + 50$   
 $\frac{10075 \text{ to } 11300}{1225}$

Handwritten note: Top 100'

## **XII. AFFIRMATIVE STATEMENT**

RE: Airplane SWD #1

We have examined the available geologic and engineering data and find no evidence of open faults or any other hydraulic connection between the disposal zone and any underground source of drinking water.

Mack Energy Corporation

Date: 1/2/14

Cari Moreno  
Cari Moreno, Geologist



## Deana Weaver

---

**From:** Mike Jorren <mike.jorren@catalystoilfield.com>  
**Sent:** Tuesday, November 26, 2013 6:58 PM  
**To:** Deana Weaver  
**Subject:** RE: Airplane SWD #1

Deana,  
There are no signs of fresh water wells anywhere that I can see. If there were any they have been abandoned.  
Thanks,  
Mike J.

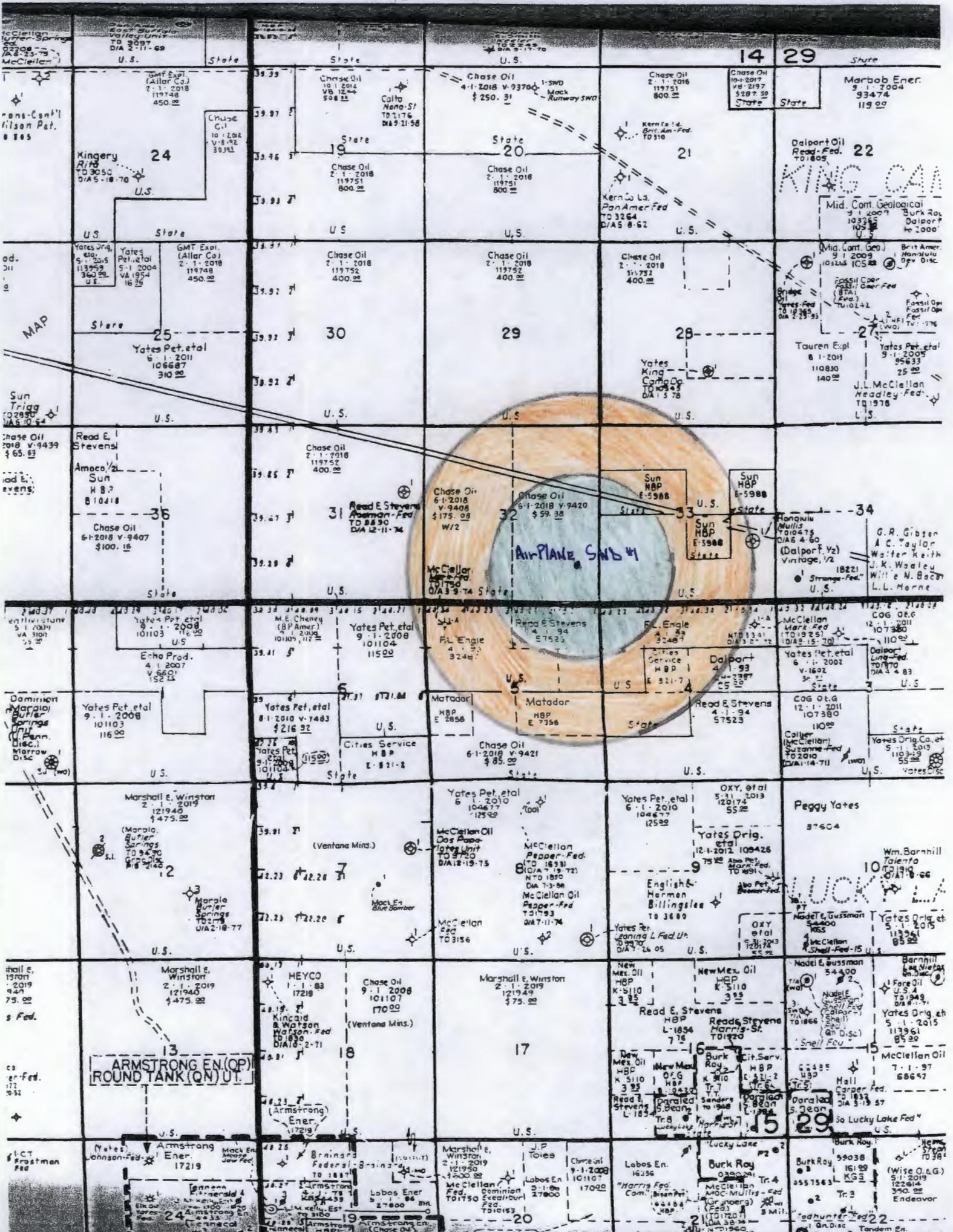
**From:** Deana Weaver [mailto:dweaver@mec.com]  
**Sent:** Thursday, November 21, 2013 1:20 PM  
**To:** Mike.Jorren@catalystoilfield.com  
**Cc:** Jerry Sherrell  
**Subject:** Airplane SWD #1

Mike

We have a new SWD well, the Airplane SWD #1. It is located in NE/4 SE/4 Sec. 32 T14S R29E, 1320 FSL & 760 FEL. Could you please get me a water sample from nearby water wells? I will place a map at the front desk.

Thank you

Deana Weaver  
Mack Energy Corp  
575-748-1288



14 29

KING OIL

AIRPLANE SMD #1

LUCKY LAKE

ARMSTRONG EN(OP) ROUND TANK(Q) U.I.

<p>McClellan Upper Springs D/A 8-23-75 McClellan</p> <p>U.S.</p>	<p>State</p> <p>Chase Oil 10-1-2016 V-2197 800.00</p> <p>Chase Oil 2-1-2016 V-2197 800.00</p>	<p>State</p> <p>Chase Oil 2-1-2016 V-2197 800.00</p> <p>Chase Oil 2-1-2016 V-2197 800.00</p>			
<p>Yates Drig. 5-1-2015 113959 360.00 U.S.</p> <p>Yates Pet. et al 5-1-2004 VA 1954 16.00</p> <p>GMT Expl. (Allar Co) 2-1-2018 119748 450.00</p>	<p>State</p> <p>Chase Oil 2-1-2018 119751 800.00</p> <p>Chase Oil 2-1-2018 119752 400.00</p>	<p>State</p> <p>Chase Oil 2-1-2018 119752 400.00</p> <p>Chase Oil 2-1-2018 119752 400.00</p>	<p>State</p> <p>Chase Oil 2-1-2018 119752 400.00</p> <p>Chase Oil 2-1-2018 119752 400.00</p>	<p>State</p> <p>Chase Oil 2-1-2018 119752 400.00</p> <p>Chase Oil 2-1-2018 119752 400.00</p>	<p>State</p> <p>Chase Oil 2-1-2018 119752 400.00</p> <p>Chase Oil 2-1-2018 119752 400.00</p>
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Legal Notice

Mack Energy Corporation, Post Office Box 960, Artesia, NM 88211-0960, has filed an Application with the New Mexico Oil Conservation Division seeking authorization to inject produced water into the Airplane SWD #1 1320 FSL & 760 FEL of Section 32, T14S R29E, NMPM, Chaves County, New Mexico. The water will be injected into the Mississippian-Woodford-Devonian-Montoya-Simpson-Ellenburger formations at a disposal depth of 10,075-11,550'. Water will be injected at a maximum surface pressure of 1940 pounds and a maximum injection rate of 4000 BWPD. Any interested party with questions or comments may contact Deana Weaver at Mack Energy Corporation, Post Office Box 960, Artesia, New Mexico 88211-0960 or call (575) 748-1288. Objections to this application or requests for hearing must be filed with the Oil Conservation Division, 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505, within fifteen days of the date of the publication of this notice.



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

January 3, 2014

**VIA CERTIFIED MAIL 7013 0600 0001 7892 3412**  
**RETURN RECEIPT REQUESTED**

Bureau of Land Management  
2909 W. Second St.  
Roswell, NM 88201-2019

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for a Mississippian-Woodford-Devonian-Montoya-Simpson-Ellenburger SWD well. Produced water will be injected at a proposed depth of 10,075-11,550'. The Airplane SWD #1 located 1320 FSL & 760 FEL, Sec. 32 T14S R29E, Chaves County.

This letter will serve as a notice that Mack Energy Corporation has requested administrative approval from the NMOCD to convert this well into a water disposal well. If you have any objections, you must notify the Oil Conservation Division in Santa Fe in writing at 1220 South St. Francis Drive, Santa Fe, NM 87505 within fifteen (15) days of receiving this letter.

Sincerely,

MACK ENERGY CORPORATION

A handwritten signature in black ink that reads "Deana Weaver". The signature is written in a cursive style.

Deana Weaver  
Production Clerk

DW

Attachments



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

January 3, 2014

**VIA CERTIFIED MAIL 7013 0600 0001 7892 3429**  
**RETURN RECEIPT REQUESTED**

Commissioner of Public Lands  
PO Box 1148  
Santa Fe, NM 87504-1148

Gentlemen:

*Enclosed for your review, is a copy of Mack Energy Corporation's application for a Mississippian-Woodford-Devonian-Montoya-Simpson-Ellenburger SWD well. Produced water will be injected at a proposed depth of 10,075-11,550'. The Airplane SWD #1 located 1320 FSL & 760 FEL, Sec. 32 T14S R29E, Chaves County.*

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*Sincerely,*

**MACK ENERGY CORPORATION**

A handwritten signature in black ink that reads "Deana Weaver".

**Deana Weaver**  
**Production Clerk**

**DWA**

**Attachments**



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

January 3, 2014

**VIA CERTIFIED MAIL 7013 0600 0001 7892 3436**  
**RETURN RECEIPT REQUESTED**

Burk Royalty Company, LTD.  
P.O. Box 94903  
Wichita Falls, TX 76308

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for a Mississippian-Woodford-Devonian-Montoya-Simpson-Ellenburger SWD well. Produced water will be injected at a proposed depth of 10,075-11,550'. The Airplane SWD #1 located 1320 FSL & 760 FEL, Sec. 32 T14S R29E, Chaves County.

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Sincerely,

MACK ENERGY CORPORATION

A handwritten signature in black ink that reads "Deana Weaver". The signature is written in a cursive, flowing style.

Deana Weaver  
Production Clerk

DW

Attachments



P.O. Box 960  
Artesia, NM 88211-0960  
Office (575) 748-1288  
Fax (575) 740-9539

January 3, 2014

**VIA CERTIFIED MAIL 7013 0600 0001 7892 3443**  
**RETURN RECEIPT REQUESTED**

Leon M. Lampert  
1134 The 600 Building  
Corpus Christi, TX 78437

Gentlemen:

*Enclosed for your review, is a copy of Mack Energy Corporation's application for a Mississippian-Woodford-Devonian-Montoya-Simpson-Ellenburger SWD well. Produced water will be injected at a proposed depth of 10,075-11,550'. The Airplane SWD #1 located 1320 FSL & 760 FEL, Sec. 32 T14S R29E, Chaves County.*

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Sincerely,

MACK ENERGY CORPORATION

*Deana Weaver*  
Deana Weaver  
Production Clerk

DW

Attachments



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

January 3, 2014

**VIA CERTIFIED MAIL 7013 0600 0001 7892 3450**  
**RETURN RECEIPT REQUESTED**

Harry L. Todd, Jr.  
14017 Tanglewood Circle  
Dallas, TX 75234

Gentlemen:

*Enclosed for your review, is a copy of Mack Energy Corporation's application for a Mississippian-Woodford-Devonian-Montoya-Simpson-Ellenburger SWD well. Produced water will be injected at a proposed depth of 10,075-11,550'. The Airplane SWD #1 located 1320 FSL & 760 FEL, Sec. 32 T14S R29E, Chaves County.*

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*Sincerely,*

MACK ENERGY CORPORATION

A handwritten signature in black ink that reads "Deana Weaver". The signature is written in a cursive style with a long horizontal flourish extending to the right.

Deana Weaver  
Production Clerk

DWA

Attachments



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

January 3, 2014

**VIA CERTIFIED MAIL 7013 0600 0001 7892 3467**  
**RETURN RECEIPT REQUESTED**

Raymond L. Todd  
1107 Shawnee Trail  
Carrollton, TX 75007

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for a Mississippian-Woodford-Devonian-Montoya-Simpson-Ellenburger SWD well. Produced water will be injected at a proposed depth of 10,075-11,550'. The Airplane SWD #1 located 1320 FSL & 760 FEL, Sec. 32 T14S R29E, Chaves County.

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Sincerely,

MACK ENERGY CORPORATION

  
Deana Weaver  
Production Clerk

DW

Attachment



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

January 3, 2014

**VIA CERTIFIED MAIL 7013 0600 0001 7892 3474**  
**RETURN RECEIPT REQUESTED**

Tommy T. Todd  
7912 Purdue  
Dallas, TX 75225

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for a Mississippian-Woodford-Devonian-Montoya-Simpson-Ellenburger SWD well. Produced water will be injected at a proposed depth of 10,075-11,550'. The Airplane SWD #1 located 1320 FSL & 760 FEL, Sec. 32 T14S R29E, Chaves County.

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Sincerely,

MACK ENERGY CORPORATION

A handwritten signature in black ink that reads "Deana Weaver".

Deana Weaver  
Production Clerk

DW

Attachments



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

January 3, 2014

**VIA CERTIFIED MAIL 7013 0600 0001 7892 3481**  
**RETURN RECEIPT REQUESTED**

Anne T. Barfield  
P.O. Box 738  
Wimberley, TX 78676

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for a Mississippian-Woodford-Devonian-Montoya-Simpson-Ellenburger SWD well. Produced water will be injected at a proposed depth of 10,075-11,550'. The Airplane SWD #1 located 1320 FSL & 760 FEL, Sec. 32 T14S R29E, Chaves County.

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Sincerely,

MACK ENERGY CORPORATION

A handwritten signature in cursive script that reads "Deana Weaver".

Deana Weaver  
Production Clerk

DW

Attachments



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

January 3, 2014

**VIA CERTIFIED MAIL 7013 0600 0001 7892 3498**  
**RETURN RECEIPT REQUESTED**

Thomas E. Todd, Jr.  
204 McBride  
PO Box 338  
Ruidoso, NM 88345

Gentlemen:

*Enclosed for your review, is a copy of Mack Energy Corporation's application for a Mississippian-Woodford-Devonian-Montoya-Simpson-Ellenburger SWD well. Produced water will be injected at a proposed depth of 10,075-11,550'. The Airplane SWD #1 located 1320 FSL & 760 FEL, Sec. 32 T14S R29E, Chaves County.*

*This letter will serve as a notice that Mack Energy Corporation has requested administrative approval from the NMOCD to convert this well into a water disposal well. If you have any objections, you must notify the Oil Conservation Division in Santa Fe in writing at 1220 South St. Francis Drive, Santa Fe, NM 87505 within fifteen (15) days of receiving this letter.*

*Sincerely,*

MACK ENERGY CORPORATION

A handwritten signature in black ink that reads "Deana Weaver". The signature is written in a cursive, flowing style.

Deana Weaver  
Production Clerk

DWA

Attachments



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

January 3, 2014

**VIA CERTIFIED MAIL 7013 0600 0001 7892 3504**  
**RETURN RECEIPT REQUESTED**

Margaret Todd Sherrill  
313 Jemez Drive  
Hobbs, NM 88240

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Deana Weaver  
Production Clerk

DWA

Attachments



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Artesia, NM 88211-0960  
Office (575) 748-1288  
Fax (575) 746-9559

January 3, 2014

**VIA CERTIFIED MAIL 7013 0600 0001 7892 3511**  
**RETURN RECEIPT REQUESTED**

Margaret Todd Sherrill  
Thomas E. Todd as Joint Tenants  
313 Jemez Drive  
Hobbs, NM 88240

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Production Clerk

DWA

Attachments



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Artesia, NM 88211-0960  
Office (575) 748-1288  
Fax (575) 746-9539

January 3, 2014

**VIA CERTIFIED MAIL 7013 0600 0001 7892 3528**  
**RETURN RECEIPT REQUESTED**

Headington Royalty, Inc.  
7557 Rambler Road, Suite 1150  
Dallas, TX 75231

Gentlemen:

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**Deana Weaver**  
**Production Clerk**

DWA

*Attachments*



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

January 3, 2014

**VIA CERTIFIED MAIL 7013 0600 0001 7892 3535**  
**RETURN RECEIPT REQUESTED**

Oxy USA WTP, LP  
P.O. Box 27570  
Houston, TX 77227

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MACK ENERGY CORPORATION

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Deana Weaver  
Production Clerk

DW

Attachments

*Application Seeking  
Authorization...*

**Publish January 7, 2014**

Legal Notice

Mack Energy Corporation, Post Office Box 960, Artesia, NM 88211-0960, has filed an Application with the New Mexico Oil Conservation Division seeking authorization to inject produced water into the Airplane SWD #1 1320 FSL & 760 FEL of Section 32, T14S R29E, NMPM, Chaves County, New Mexico. The water will be injected into the Mississippian-Woodford-Devonian-Montoya-Simpson-Ellenburger formations at a disposal depth of 10,075-11,550'. Water will be injected at a maximum surface pressure of 1940 pounds and a maximum injection rate of 4000 BWPD. Any interested party with questions or comments may contact Deana Weaver at Mack Energy Corporation, Post Office Box 960, Artesia, New Mexico 88211-0960 or call (575) 748-1288. Objections to this application or requests for hearing must be filed with the Oil Conservation Division, 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505, within fifteen days of the date of the publication of this notice.

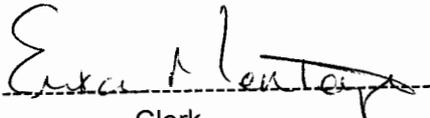
AFFIDAVIT OF PUBLICATION  
STATE OF NEW MEXICO

I, Erika Montoya  
Legals Clerk

Of the Roswell Daily Record, a daily newspaper published at Roswell, New Mexico do solemnly swear that the clipping hereto attached was published in the regular and entire issue of said paper and not in a supplement thereof for a period of:

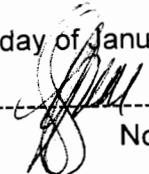
One time with the issue dated

January 7, 2014

-----  
  
Clerk

Sworn and subscribed to before me

this 8th day of January, 2014

-----  
  
Notary Public

My Commission expires  
June 13, 2014

(SEAL)

***Application Seeking  
Authorization...***

**Publish January 7, 2014**

**Legal Notice**

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C-108 Review Checklist: Received 01/04/14 Add. Request: — Reply Date: — Suspended: — [Ver 13]

PERMIT TYPE: WFX / PMX (SWD) Number: 1476 Permit Date: 04/14/14 Legacy Permits/Orders: NA

Well No. 1 Well Name(s): Airplane SWD

API: 30-005-64189 Spud Date: TBD New or Old: N (UIC Class II Primacy 03/07/1982)

Footages 1320 FSL / 760 FEL Lot — or Unit I Sec 32 Tsp 14S Rge 29E County Chaves

General Location: 15 miles East of Hagerman Pool: SWD. Miss - Ellenburger Pool No.: ( )

BLM 100K Map: Roswell Operator: Mack Energy Corp OGRID: 13837 Contact: Deanna Weaver

COMPLIANCE RULE 5.9: Total Wells: 454 Inactive: 1 Fincl Assur: Yes Compl. Order? No IS 5.9 OK? (Yes) Date: 04/14/14

WELL FILE REVIEWED  Current Status: APP filed - no additional info

WELL DIAGRAMS: NEW: Proposed  or RE-ENTER: Before Conv.  After Conv.  Logs in Imaging: NA / Logs requested

Planned Rehab Work to Well: NA: new well

Well Construction Details:	Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement Sx br Cf	Cement Top and Determination Method
Planned <input checked="" type="checkbox"/> or Existing <u>Surface</u>	<u>17 1/2 / 13 3/8</u>	<u>0 to 200'</u>	<u>250</u>	<u>Surface Circ. to</u>
Planned <input checked="" type="checkbox"/> or Existing <u>(Interm) Prod</u>	<u>12 1/4 / 8 5/8</u>	<u>0 to 2280'</u>	<u>None</u>	<u>Circ. to surf</u>
Planned <input checked="" type="checkbox"/> or Existing <u>(Interm) Prod</u>	<u>7 7/8 / 5 1/2</u>	<u>0 to 11350</u>	<u>&lt; 1000</u>	<u>Circ. to surf</u>
Planned <input type="checkbox"/> or Existing <u>Prod/Liner</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
Planned <input type="checkbox"/> or Existing <u>Liner</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
Planned <input checked="" type="checkbox"/> or Existing <u>OH / PERF</u>	<u>7 7/8 / 5 1/2</u>	<u>10075 to 11350</u>	<u>Inj Length 1275</u>	

Injection Stratigraphic Units:	Depths (ft)	Injection or Confining Units	Tops	Completion/Operation Details:
Adjacent Unit: Litho. Struc. Por.		<u>Artesia</u>	<u>9100</u>	Drilled TD <u>—</u> PBSD <u>—</u>
Confining Unit: <u>(Litho)</u> Struc. Por.	<u>&lt; top in Chester</u>	<u>Miss / Chester</u>	<u>9550</u>	NEW TD <u>11250</u> NEW PBSD <u>—</u>
Proposed Inj Interval TOP:	<u>10075</u>	<u>Chester / Woodford</u>	<u>10150</u>	NEW Open Hole <input type="checkbox"/> or NEW Perfs <input checked="" type="checkbox"/>
Proposed Inj Interval BOTTOM:	<u>11350</u>	<u>Ellenburger</u>	<u>11200</u>	Tubing Size <u>2 7/8</u> in. Inter Coated? <u>Yes</u>
Confining Unit: Litho. Struc. Por.	<u>+200'</u>	<u>pe / wash</u>	<u>11550</u>	Proposed Packer Depth <u>10025</u> ft
Adjacent Unit: Litho. Struc. Por.				Min. Packer Depth <u>9075</u> (100-ft limit)
				Proposed Max. Surface Press. <u>1940</u> psi
				Admin. Inj. Press. <u>2015</u> (0.2 psi per ft)

**AOR: Hydrologic and Geologic Information**

POTASH: R-111-P NA Noticed? NA BLM Sec Ord NO WIPP NO Noticed? NA SALT/SALADO T: — B: — CLIFF HOUSE NA

FRESH WATER: Aquifer Shallow Alluvial / No - Max Depth Red bed ~130' HYDRO AFFIRM STATEMENT By Qualified Person

NMOSE Basin: Roswell Art. CAPITAN REEF: thru  adj  NAO  No. Wells within 1-Mile Radius? 16 FW Analysis NA

Disposal Fluid: Formation Source(s) San Andres Analysis? NA - on line geo-tech On Lease  Operator Only  or Commercial

Disposal Int: Inject Rate (Avg/Max BWPD): 2000/4000 Protectable Waters? Unknown Source: TBD System: Closed  or Open

HC Potential: Producing Interval? No Formerly Producing? No Method: Logs/DST/P&A/Other Unknown 2-Mile Radius Pool Map

AOR Wells: 1/2-M Radius Map? Yes Well List? No Total No. Wells Penetrating Interval: 0 Horizontals? 0

Penetrating Wells: No. Active Wells 0 Num Repairs? — on which well(s)? — Diagrams? —

Penetrating Wells: No. P&A Wells 0 Num Repairs? — on which well(s)? — Diagrams? —

NOTICE: Newspaper Date 01/07/2014 Mineral Owner SLO Surface Owner SLO N. Date 01/03/14

RULE 26.7(A): Identified Tracts? Yes Affected Persons: BLM - contacted / Todd family 12 members / Lambert / Headwaters / QUASATP N. Date 01/03/14

Permit Conditions: Issues: No info on formation lit / new strat poor info / HC potential / injection

Add Permit Cond: Mud log / salinity calcs / top picks / injection survey within 2 years