

UNITED STATES **OCD-HOBBS**  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: March 31, 2007

**SUNDRY NOTICES AND REPORTS ON WELLS**

*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

**SUBMIT IN TRIPLICATE- Other instructions on reverse side.**

1. Type of Well  
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator **Marbob Energy Corporation**

3a. Address  
**PO Box 227, Artesia, NM 88211-0227**

3b. Phone No. (include area code)  
**505-748-3303**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**660 FNL 1980 FWL, Sec. 4-T22S-R32E, Unit C**

5. Lease Serial No.

**NMNM86710**

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

**Bilbrey Federal Com #1**

9. API Well No.

**30-025-27472**

10. Field and Pool, or Exploratory Area

**Bilbrey; Morrow**

11. County or Parish, State

**Lea Co., NM**

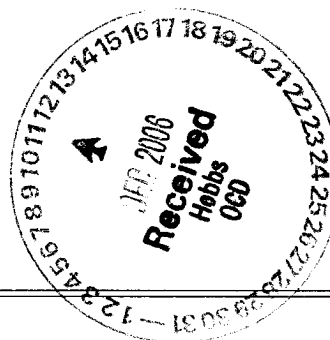
**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input checked="" type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

**Marbob Energy Corporation requests approval for disposal of water production.**

**Enclosed please find the Water Production & Disposal Information sheet, a current water analysis and a copy of the state issued permit #R-8173.**



14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed)

**Diana J. Briggs**

Title **Production Analyst**

Signature

Date

**11/30/2006**

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

**APPROVED**

Approved by

Title

Date

**DEC 7 2006**

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

**WESLEY W. INGRAM**

**PETROLEUM ENGINEER**

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**GWW**

**WATER PRODUCTION & DISPOSAL INFORMATION**

**In order to process your disposal request, the following information must be completed:**

1. Names(s) of all formation(s) producing water on the lease.  
MORROW
2. Amount of water produced from all formations in barrels per day.  
APPROXIMATELY 5 BBLs PER DAY
3. A Current water analysis of produced water from all zones showing at least the total dissolved solids, ph, and the concentrations of chlorides and sulfates.  
ANALYSIS ATTACHED
4. How water is stored on the lease.  
500 BBL FIBERGLASS TANK
5. How water is moved to the disposal facility.  
TRUCKED
6. Identify the Disposal Facility by:
  - A. Facility Operator Name RAY WESTALL
  - B. Name of facility of well name & number TENNESSEE FEDERAL #1 SWD.
  - C. Type of facility of well (WDW)(WIW), etc. WDW
  - D. Location by 1/4, 1/4, Section, Township and Range UT 1, SEC. 21-T19S-R31E
7. Attach a copy of the State issued permit for the Disposal Facility.  
SEE ATTACHED PERMIT #R-8173.

Submit all of the above required information to this office, 414 West Taylor, Hobbs, NM 88240, on a Sundry Notice Form 3160-5, 1 Original and 5 copies, within the required time frame. (This form may be used as an attachment to the Sundry Notice.) Call (505) 393-3612 if you need to further discuss this matter.

Analytical Laboratory Report for:

Marbob Energy



Chemical Services

Account Representative:

Bill Polk

## Production Water Analysis

Listed below please find water analysis report from: Bilbrey Fed. Com, #1

Lab Test No: 2006148262

Sample Date:

11/20/2006

Specific Gravity: 1.035

TDS: 52653

pH: 6.53

Cations:	mg/L	as:
Calcium	1302	(Ca <sup>++</sup> )
Magnesium	150	(Mg <sup>++</sup> )
Sodium	17826	(Na <sup>+</sup> )
Iron	101.30	(Fe <sup>++</sup> )
Potassium	43.0	(K <sup>+</sup> )
Barium	25.30	(Ba <sup>++</sup> )
Strontium	214.00	(Sr <sup>++</sup> )
Manganese	1.28	(Mn <sup>++</sup> )
Anions:	mg/L	as:
Bicarbonate	293	(HCO <sub>3</sub> <sup>-</sup> )
Sulfate	40	(SO <sub>4</sub> <sup>-</sup> )
Chloride	32700	(Cl <sup>-</sup> )
Gases:		
Carbon Dioxide	5	(CO <sub>2</sub> )
Hydrogen Sulfide	0	(H <sub>2</sub> S)

Marbob Energy

Lab Test No: 2006148262

**DownHole SAT™ Scale Prediction**  
**@ 100 deg. F**



Chemical Services

Mineral Scale	Saturation Index	Momentary Excess (lbs/1000 bbls)
Calcite (CaCO <sub>3</sub> )	.925	-.00646
Aragonite (CaCO <sub>3</sub> )	.784	-.0221
Witherite (BaCO <sub>3</sub> )	.00468	-15.18
Strontianite (SrCO <sub>3</sub> )	.255	-.343
Magnesite (MgCO <sub>3</sub> )	.121	-.49
Anhydrite (CaSO <sub>4</sub> )	.00818	-914.59
Gypsum (CaSO <sub>4</sub> *2H <sub>2</sub> O)	.011	-829.22
Barite (BaSO <sub>4</sub> )	4.61	9.18
Celestite (SrSO <sub>4</sub> )	.0379	-183.21
Silica (SiO <sub>2</sub> )	0	-52.34
Brucite (Mg(OH) <sub>2</sub> )	< 0.001	-1.05
Magnesium silicate	0	-120.06
Siderite (FeCO <sub>3</sub> )	121.69	.0919
Halite (NaCl)	.0081	-179278
Thenardite (Na <sub>2</sub> SO <sub>4</sub> )	< 0.001	-70335
Iron sulfide (FeS)	0	-.0251

**Interpretation of DHSat Results:**

The Saturation Index is calculated for each mineral species independently and is a measure of the degree of supersaturation (driving force for precipitation) under the conditions modeled. This value ranges from 0 to infinity with 1.0 representing a condition of equilibrium where scale will neither dissolve nor precipitate. Values less than 1.0 are undersaturated and values greater than 1.0 are supersaturated. The scale is logarithmic, i.e. a Saturation Index of 3 is 10 times more saturated than a value of 2.

The Momentary excess is a measure of how much scale would have to precipitate to bring the system back to a non-scaling condition. This value ranges from negative (dissolving) infinity to positive (precipitating) infinity. The Momentary Excess represents the amount of scale possible while the Saturation Level represents the probability that scale will form.