

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
AND HOBBS

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
Manhattan Petroleum, Inc.

3a. Address
P.O. Box 35888, Tulsa, OK 74153-0888

3b. Phone No. (include area code)
918-621-6533

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

**M Sec 28-T9S-R38E
660' FSL & 660' FWL**

5. Lease Serial No.

LC063659

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.

Great Western Federal #1

9. API Well No.

30-025-07069

10. Field and Pool, or Exploratory Area

Sawyer

11. County or Parish, State

Lea

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.)

Request for approval of water disposal filed in response to BLM Form 3160-0 Notice No. AJM-011-07.

Additional information and current water analysis attached.



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

Connie Swan

Title **Regulatory Administrator**

Signature

Date

01/29/2007

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

APPROVED

Approved by

Title

Date

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

FEB 5 2007

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.

**FREDERICK WRIGHT
PETROLEUM ENGINEER**

(Instructions on page 2)

GWW

Attachment to Sundry Notice 3160-5 Notice of Intention for Water Disposal Approval

Great Western A Federal #1

API No. 30-025-07069

1. Formation producing water on the lease: **San Andres**
2. Amount of water produced in barrels per day: **5.0 bbls/day in Nov06**
3. Current water analysis attached: **Dec1506.002-2**
4. How water is stored on the lease: **Fiberglass tank**
5. How water is moved to the disposal facility: **Tank truck**
6. Identify disposal facility by
 - a. Operator's name: **State Line Trucking**
 - b. Well name: **Reed Estate #1**
 - c. Well type and well number: **Commercial Disposal**
 - d. Location :
467' FNL & 2130' FWL
Sec 41 Harrison & Brown Survey
Abstract 46
Cochran County, Texas
RRC Injection Permit No. 10658

Permian Treating Chemicals, Inc.

WATER ANALYSIS REPORT

SAMPLE

Oil Co. : **Manhattan Petroleum**
 Lease : **Great Western Fed A**
 Well No. : **1**
 Location:
 Attention:

Date Sampled : **08-December-2006**Date Analyzed: **15-December-2006**Lab ID Number: **Dec1506.002- 2**

Salesperson :

Requested By : **Permian Treating Chemicals, Inc.***File Name : **Dec1506.002****ANALYSIS**

1.	Ph	5.720			
2.	Specific Gravity 60/60 F.	1.163			
3.	CACO3 Saturation Index	@ 80F	0.600	Moderate	
		@ 140F	2.210	Severe	

Dissolved Gasses

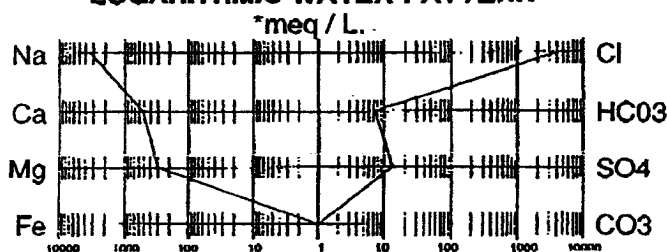
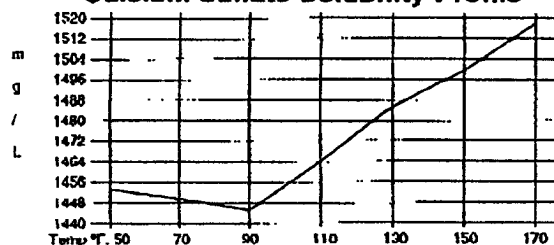
		MG/L.	EQ. WT.	*MEQ/L
4.	Hydrogen Sulfide	Present		
5.	Carbon Dioxide	Not Determined		
6.	Dissolved Oxygen	Not Determined		

Cations

7.	Calcium	(Ca++)	10,020	/ 20.1 =	498.51
8.	Magnesium	(Mg++)	3,525	/ 12.2 =	288.93
9.	Sodium	(Na+)	73,061	/ 23.0 =	3,176.57
10.	Barium	(Ba++)	Not Determined		

Anions

11.	Hydroxyl	(OH+)	0	/ 17.0 =	0.00
12.	Carbonate	(CO3=)	0	/ 30.0 =	0.00
13.	Bicarbonate	(HCO3-)	425	/ 61.1 =	6.96
14.	Sulfate	(SO4=)	625	/ 48.8 =	12.81
15.	Chloride	(Cl-)	139,968	/ 35.5 =	3,942.76
16.	Total Dissolved Solids		227,624		
17.	Total Iron	(Fe)	3.50	/ 18.2 =	0.19
18.	Manganese	(Mn++)	Not Determined		
19.	Total Hardness as CaCO3		39,535		
20.	Resistivity @ 75 F. (Calculated)		0.001 Ohm · meters		

LOGARITHMIC WATER PATTERN**Calcium Sulfate Solubility Profile****PROBABLE MINERAL COMPOSITION**

COMPOUND	*meq/L	X	EQ. WT. =	mg/L
Ca(HCO3)2	6.96		81.04	564
CaSO4	12.81		68.07	872
CaCl2	478.74		55.50	26,570
Mg(HCO3)2	0.00		73.17	(
MgSO4	0.00		60.19	(
MgCl2	288.93		47.62	13,759
NaHCO3	0.00		84.00	(
NaSO4	0.00		71.03	(
NaCl	3,175.08		58.46	185,615

* milliequivalents per Liter

Kevin Byrne, Analyst



RAILROAD COMMISSION OF TEXAS

OIL AND GAS DIVISION

PERMIT TO DISPOSE OF NON-HAZARDOUS OIL AND GAS WASTE BY INJECTION INTO A POROUS FORMATION NOT PRODUCTIVE OF OIL AND GAS

PERMIT NO. 10658, AMENDED

STATE LINE TRUCKING, INC.
P O BOX 520
LEVELLAND TX 79336

Based on information contained in your application (Form W-14) dated April 6, 2006, you are hereby authorized to dispose of oil and gas waste into your well designated as follows:

Reed Estate Lease, (67650), Well No. 1, Levelland Field, Cochran County, RRC
District 8A

Authority is granted to inject in accordance with Statewide Rule 9 of the Railroad Commission of Texas and subject to the following special and standard conditions:

SPECIAL CONDITIONS:

1. Oil and gas waste shall only be injected into strata in the subsurface depth interval from 5200 feet to 10300 feet.
2. The injection volume shall not exceed 3000 barrels per day.
3. The maximum operating surface injection pressure shall not exceed 2600 psig.
4. The authority to dispose of oil and gas waste is limited to the disposal of salt water.

STANDARD CONDITIONS:

1. Injection must be through tubing set on a packer. The packer must be set no higher than 100 feet above the top of the permitted interval.
2. The District Office must be notified 48 hours prior to:
 - a. running tubing and setting packer;
 - b. beginning any workover or remedial operation;
 - c. conducting any required pressure tests or surveys.
3. The wellhead must be equipped with a pressure observation valve on the tubing and for each annulus.