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OCD-HOBBS

Form 3160-5
(April 2004)

UNITED STATES
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.

5. Lease Serial No.
NMNM 94967

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
NMNM 111777

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

8. Well Name and No.
Querecho Plains Federal Com 2

2. Name of Operator **CHESAPEAKE OPERATING, INC.** **ATTN: LINDA GOOD**

9. API Well No.
30-025-36541

3a. Address
P. O. BOX 18496, OKLAHOMA CITY, OK 73154-0496

3b. Phone No. *(include area code)*
405-767-4275

10. Field and Pool, or Exploratory Area
Querecho Plains

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
1980 FNL & 660 FWL, SEC 22-T18S-R32E

11. County or Parish, State
Lea County, New Mexico

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☑ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☑ 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 recomplete 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 recompletion 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.)

Chesapeake, respectfully, requests permission for water disposal. The water is stored in a 500 bbl Fiberglass tank. I/W Trucking will haul the water to the Loco Hills SWD. Attached is the Water Production & disposal Information & Water Analysis.

BLM NATIONWIDE BOND #NM2634.

(CHK PN 891394)

14. I hereby certify that the foregoing is true and correct
Name *(Printed/Typed)*
LINDA GOOD Title **PERMITTING AGENT**

Signature Linda Good Date **07/07/2006**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by _____ Title PE Date 8/21/06

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 CFO

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)

Returned 7/13/06; insufficient copies
GWW

(2)

Water Production & disposal Information

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

1. Name of formations producing water on the lease. Bone Springs

2. Amount of water produced from all formations in barrels per day. 8 BPD

3. Attach 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. (one sample will suffice if the water is commingled)

4. How water is stored on the lease. 1-500 bbl FG Water tank

5. How water is moved to the disposal facility. Trucked

6. Identify the Disposal Facility by :

   A. Facility operators name. Loco Hills SWD

   B. Name of facility or well name & number.

   C. Type of facility or well (WDW) (WIW) etc.

   D. Location by 1/4 1/4 _____ section 16 township 17S range 30E EDDY, CTY, NM

7. Attach a copy of the State issued permit for the Disposal Facility.
   See attached

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

Pro- Kem, Inc.

WATER ANALYSIS REPORT

SAMPLE

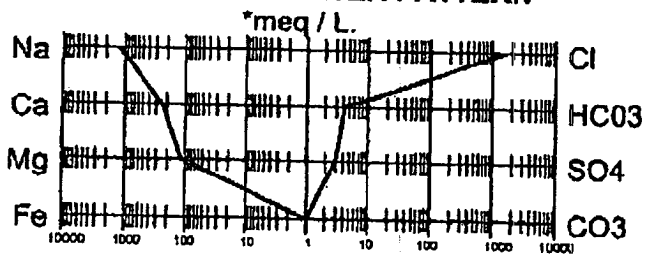
Oil Co. : **Chesapeake**
Lease : **Qurecho Plaines**
Well No.:
Location:
Attention:

Date Sampled : **22-June-2006**
Date Analyzed: **27-June-2006**
Lab ID Number: **Jun2706.002- 3**
Salesperson ;
File Name : **Z:\ANALYSES\DATA\Jun2706.002**

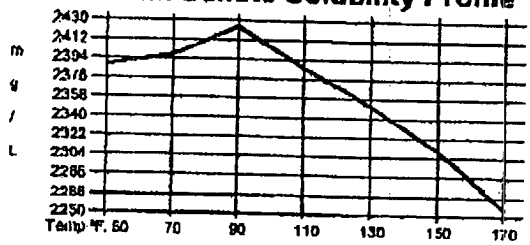
ANALYSIS

				MG/L.	EQ. WT.	*MEQ/L
1.	Ph			7.500		
2.	Specific Gravity 60/60 F.			1.068		
3.	CACO3 Saturation Index	@ 80F		0.827		
		@140F		1.747		
	Dissolved Gasses					
4.	Hydrogen Sulfide			0		
5.	Carbon Dioxide			40		
6.	Dissolved Oxygen			Not Determined		
	Cations					
7.	Calcium	(Ca++)		4,709	/ 20.1 =	234.28
8.	Magnesium	(Mg++)		1,337	/ 12.2 =	109.59
9.	Sodium	(Na+)	(Calculated)	27,237	/ 23.0 =	1,184.22
10.	Barium	(Ba++)		13	/ 68.7 =	0.19
	Anions					
11.	Hydroxyl	(OH+)		0	/ 17.0 =	0.00
12.	Carbonate	(CO3=)		0	/ 30.0 =	0.00
13.	Bicarbonate	(HCO3-)		247	/ 61.1 =	4.04
14.	Sulfate	(SO4=)		138	/ 48.8 =	2.83
15.	Chloride	(Cl-)		53,988	/ 35.5 =	1,520.79
16.	Total Dissolved Solids			87,669		
17.	Total Iron	(Fe)		9	/ 18.2 =	0.47
18.	Total Hardness as CaCO3			17,265		
19.	Resistivity @ 75 F. (Calculated)			0.108 Ohm · meters		

LOGARITHMIC WATER PATTERN



Calcium Sulfate Solubility Profile



PROBABLE MINERAL COMPOSITION

COMPOUND	*meq/L	X	EQ. WT.	=	mg/L.
Ca(HCO3)2	4.04		81.04		328
CaSO4	2.64		68.07		180
CaCl2	227.60		55.50		12,632
Mg(HCO3)2	0.00		73.17		0
MgSO4	0.00		60.19		0
MgCl2	109.59		47.62		5,219
NaHCO3	0.00		84.00		0
NaSO4	0.00		71.03		0
NaCl	1,183.60		58.46		69,193

* milliequivalents per Liter

Kevin Byrne, Analyst