OCD-HOBBS

Form 3160-5
(February 2005)

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 page 2.*

5. Lease Serial No.: LC059152(b)

6. If Indian, Allottee or Tribe Name:

7. If Unit of CA/Agreement, Name and/or No.: ~~35622~~

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

8. Well Name and No.: COOPER 24 FEDERAL NO. 1

2. Name of Operator: CML EXPLORATION, LLC

9. API Well No.: 30-025-37841

3a. Address: P O.BOX 890, SNYDER, TX 79550

3b Phone No *(include area code)*: 325-573-1938

10. Field and Pool or Exploratory Area: Leamex Morrow West

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*: 1650' FNL & 800' FEL, SEC 24, T17S, R32E

11. Country or Parish, State: LEA, NEW MEXICO

12. CHECK THE 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
	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☑ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ 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 must 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 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

ATTACHED WATER PRODUCTION & DISPOSAL INFORMATION.

DEC 2007 Received Hobbs OCD

APPROVED
~~ACCEPTED FOR RECORD~~
DEC 18 2007
/S/ ALEXIS C. SWOBODA
ALEXIS C. SWOBODA
PETROLEUM ENGINEER

14. I hereby certify that the foregoing is true and correct.
Name *(Printed/Typed)*: Nolan von Roeder — Title: Engineer

Signature: [signature] — Date: 11/28/2007

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by: OC FIELD REPRESENTATIVE II/STAFF MANAGER — Title — Date: JAN 10 2008

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

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.
   6.

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.

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 DKD, LLC.

   B. Name of facility of well name & number Watson 6 No. 1.

   C. Type of facility of well (WDW)(WIW), etc. SWD.

   D. Location by ¼, ¼, Section, Township and Range N, 6, 16S, 36E.

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

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.

Pro-Kem, Inc.
WATER ANALYSIS REPORT

SAMPLE

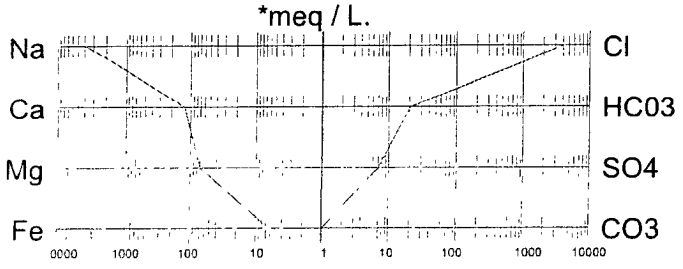
Oil Co. : **Patterson Petroleum**
Lease : **Cooper 24 Fed.**
Well No.: **#1**
Location:
Attention:

Date Sampled : **14-November-2007**
Date Analyzed: **15-November-2007**
Lab ID Number: **Nov1507.003- 3**
Salesperson :
File Name : **Nov1507.003**

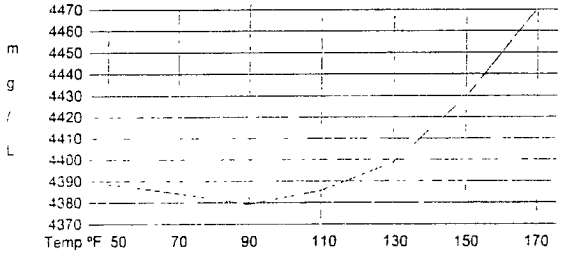
ANALYSIS

1.	Ph			7.600		
2.	Specific Gravity 60/60 F.			1.024		
3.	CACO3 Saturation Index	@ 80F		2.092	Severe	
		@140F		3.372	Severe	
	Dissolved Gasses			**MG/L.**	**EQ. WT.**	***MEQ/L**
4.	Hydrogen Sulfide			0		
5.	Carbon Dioxide			100		
6.	Dissolved Oxygen			Not Determined		
	Cations					
7.	Calcium	(Ca++)		2,405	/ 20.1 =	119.65
8.	Magnesium	(Mg++)		817	/ 12.2 =	66.97
9.	Sodium	(Na+)	(Calculated)	85,136	/ 23.0 =	3,701.57
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-)		1,230	/ 61.1 =	20.13
14.	Sulfate	(SO4=)		330	/ 48.8 =	6.76
15.	Chloride	(Cl-)		136,969	/ 35.5 =	3,858.28
16.	Total Dissolved Solids			226,887		
17.	Total Iron	(Fe)		108.00	/ 18.2 =	5.93
18.	Manganese	(Mn++)		Not Determined		
19.	Total Hardness as CaCO3			9,368		
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	**20.13**		81.04		**1,631**
CaSO4	**6.76**		68.07		**460**
CaCl2	**92.76**		55.50		**5,148**
Mg(HCO3)2	**0.00**		73.17		**0**
MgSO4	**0.00**		60.19		**0**
MgCl2	**66.97**		47.62		**3,189**
NaHCO3	**0.00**		84.00		**0**
NaSO4	**0.00**		71.03		**0**
NaCl	**3,698.56**		58.46		**216,218**

* milliequivalents per Liter

Kevin Byrne, Analyst