

DATE IN 9/18/08	SUSPENSE	ENGINEER W Jones	LOGGED IN 9/18/08	TYPE SWD	APP NO. PKVRO826234300
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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 \_\_\_\_\_

#### [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

#### [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.

Nolan Von Roeder

Print or Type Name

Signature

Petroleum Engineer

Title

09/18/08

Date

vonroedern@cmlexp.com

e-mail Address

2008 SEP 18 AM 9 23 RECEIVED

**CML EXPLORATION, LLC**

P.O. BOX 890  
SNYDER, TEXAS 79550  
325.573.1938

RECEIVED

2008 SEP 15 PM 2 53

September 12, 2008

State of New Mexico  
Energy, Minerals and Natural Resources Dept  
Oil Conservation Division  
1220 South St. Francis Dr  
Santa Fe, New Mexico 87505

RE: Cooper 24 Federal #2  
API #30-025-38348  
Application for Authorization to Inject

CML Exploration, LLC requests your consideration for a permit to convert the referenced well to salt water disposal. Enclosed is Form C-108 with the required attachments.

This well has proven no longer feasible as an oil/gas producer, and we feel that our utilization as a disposal well will be of great benefit. The proposed source of injection fluid is produced water. Enclosed are water analyses from the nearby Paddy 19 State #1 well and the Cooper 24 Fed #1. There are no fresh water wells within the one-half mile radius.

As required, we have notified the State of New Mexico Land Office, the surface land renter, and operators within a 1/2-mile radius. Provided is an Affidavit of Publication from the Hobbs News-Sun as we have notified the public of our intentions.

In checking your website, there is a log on file for this well. I have enclosed production figures/chart for the past year, and Rick Albin, Petroleum Geologist, has submitted his findings on the geologic and engineering data.

Should you require additional information, please contact this office.

Sincerely,



Rebecca Boyd  
Production Assistant  
[boydr@cmlexp.com](mailto:boydr@cmlexp.com)

Encs

**APPLICATION FOR AUTHORIZATION TO INJECT**

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

II. OPERATOR: CML EXPLORATION, LLC

ADDRESS: P. O. BOX 890, SNYDER, TX 79550

CONTACT PARTY: NOLAN VON ROEDER PHONE: 325-573-1938

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; **Avg = 500 , Max = 1,500**
2. Whether the system is open or closed; **Closed**
3. Proposed average and maximum injection pressure; **Avg = 1,500 psi, Max = 2,500 psi**
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).

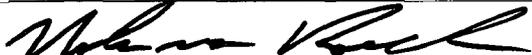
\*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

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: NOLAN VON ROEDER TITLE: ENGINEER

SIGNATURE:  DATE: 9/10/07

E-MAIL ADDRESS: vonroedern@cmlexp.com

\* 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: \_\_\_\_\_

### III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

### XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

**NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.**

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NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

INJECTION WELL DATA SHEET

OPERATOR: CML EXPLORATION, LLC

WELL NAME & NUMBER: COOPER 24 FEDERAL #2

WELL LOCATION: 1650' FSL & 810' FEL  
FOOTAGE LOCATION

I UNIT LETTER SECTION 24

17S TOWNSHIP RANGE 32E

WELLBORE SCHEMATIC

*Attached*

WELL CONSTRUCTION DATA  
Surface Casing

Hole Size: 17 1/2" Casing Size: 13 3/8"

Cemented with: 500 sx. or 660 ft<sup>3</sup>

Top of Cement: surface Method Determined: observed

Intermediate Casing

Hole Size: 12 1/4" Casing Size: 9 5/8"

Cemented with: 2500 sx. or 5168 ft<sup>3</sup>

Top of Cement: surface Method Determined: observed

Production Casing

Hole Size: 8 3/4" Casing Size: 7"

Cemented with: 1600 sx. or 3015 ft<sup>3</sup>

Top of Cement: 860' Method Determined: CBL

Total Depth: 13,820'

Injection Interval

5823 feet to 6077 Perforated

(Perforated or Open Hole; indicate which)

**INJECTION WELL DATA SHEET**

Tubing Size: 2 7/8" Lining Material: \_\_\_\_\_

Type of Packer: Arrowset I \_\_\_\_\_

Packer Setting Depth: 5,775' \_\_\_\_\_

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? Oil & gas production

2. Name of the Injection Formation: Paddock \_\_\_\_\_

3. Name of Field or Pool (if applicable): Maljamar; East, Paddock \_\_\_\_\_

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. \_\_\_\_\_

YES (See attached wellbore diagram) \_\_\_\_\_

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: \_\_\_\_\_

Maljamar Grayburg / San Andres 4,100 – 4,500' \_\_\_\_\_

Learnex, Cisco 11,551 – 11,610' \_\_\_\_\_

Learnex, Morrow West (Gas) 13,400 – 13,600' \_\_\_\_\_

**CML EXPLORATION, LLC**

RKB 4095' Lease & Well No.: **Cooper 24 Federal No.2**  
 GL 4075'

Well Category:  
 Area: **New Mexico**  
 Subarea: **Morrow**  
 Legal Description: **API #30-025-38348**  
**1650' FSL, 810' FEL, Sec 24, T-17-S, R-32-E**  
**Lea County, New Mexico**

Spudded: **03/25/2007**  
 TD: **05/25/2007**  
 Completed: **08/5/2007**

17 1/2" hole  
 13 3/8" 48# J55  
 set @ 435'  
 500 sx cement

Stimulation: 7/14/07 L Morrow - 2500 gals Claysafe H  
7/18/07 U Morrow - 3000 gals Claysafe H  
7/24/07 U Morrow - 1500 gals 7% acid  
8/3/07 Cisco - 3000 gals of 15% HCL acid  
1/26/08 Abo - 2000 gals 20% HCL acid  
1/30/08 Paddock - 2000 gals 20% HCL acid

7" TOC @ 860' (CBL)

12 1/4" hole  
 9 5/8" 40# J-55  
 set @ 4830'  
 2500sx cement., TOC = surface'

**Current Paddock Perfs**

5823 - 26' (3spf)  
 5829 - 32' (3spf)  
 5848 - 58' (3spf)

**Proposed Additional Perfs**

5911 - 37'  
 5980 - 97'  
 6021 - 45'  
 6063 - 77'

**PRESSURE DATA**

DST # 3 Cisco BHP = 5860 psi  
 8/11/07 BHP = 4243 psi  
 11/26/07 BHP = 564 psi

*CIBP @ 6735*

7" DV Tool @ 6982'  
 Cmt'd 2nd Stage w/ 600 sks

7" CIBP @ 9,350' w/ 35' cement  
Abo Perfs  
 9423 - 28' (3spf)

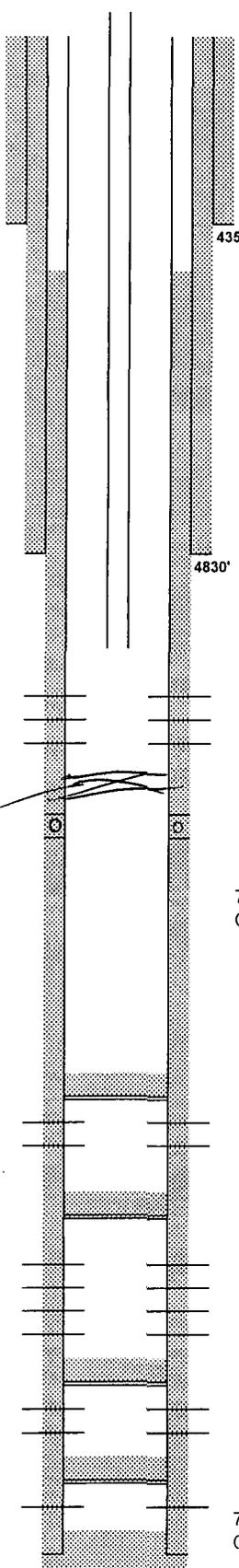
7" CIBP @ 11,460' w/ 35' cement

Cisco Perfs  
 11,551 - 58' (3 spf)  
 11,562 - 70' (3 spf)  
 11,599 - 610' (3 spf)

7" CIBP @ 13,330' w/ 15' cement  
Morrow Formation  
 13,434 - 49' (3 spf)  
 13,484 - 97' (3 spf)  
 7" CIBP @ 13,570' w/ 20' cement  
 13,594- 13,617' (3 spf)

7"29#- P-110 set @ 13,812'  
 Cmt'd 1st Stage w/ 1000 sks

PBTD: 9,315'  
 TD: 13,820'



**CML EXPLORATION, LLC**

**AFTER CONVERSION TO INJECTION**

RKB 4095' Lease & Well No.: **Cooper 24 Federal No.2**  
 GL 4075'

Well Category:  
 Area: **New Mexico**  
 Subarea: **Morrow**  
 Legal Description: **API #30-025-38348**  
**1650' FSL, 810' FEL, Sec 24, T-17-S, R-32-E**  
**Lea County, New Mexico**

Spudded: **03/25/2007**  
 TD: **05/25/2007**  
 Completed: **08/5/2007**

17 1/2" hole  
 13 3/8" 48# J55  
 set @ 435'  
 500 sx cement  
 Stimulation: 7/14/07 L Morrow - 2500 gals Claysafe H  
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7/24/07 U Morrow - 1500 gals 7% acid  
8/3/07 Cisco - 3000 gals of 15% HCL acid  
1/26/08 Abo - 2000 gals 20% HCL acid  
1/30/08 Paddock - 2000 gals 20% HCL acid

7" TOC @ 860' (CBL)

12 1/4" hole  
 9 5/8" 40# J-55  
 set @ 4830'  
 2500sx cement., TOC = surface'

**Paddock Perfs**

5823 - 26' (3spf)  
 5829 - 32' (3spf)  
 5848 - 58' (3spf)  
 5911 - 37' (3spf)  
 5980 - 97' (3spf)  
 6021 - 45' (3spf)  
 6063 - 77' (3spf)

**PRESSURE DATA**

DST # 3 Cisco BHP = 5860 psi  
 8/11/07 BHP = 4243 psi  
 11/26/07 BHP = 564 psi

7" CIBP @ 6,235' w/ 35' cement

7" DV Tool @ 6982'  
 Cmt'd 2nd Stage w/ 600 sks

40 sk cement plug 6900' - 7150'

35 sk cement plug 8150' - 8350'

7" CIBP @ 9,350' w/ 35' cement

**Abo Perfs**

9423 - 28' (3spf)

7" CIBP @ 11,460' w/ 35' cement

**Cisco Perfs**

11,551 - 58' (3 spf)  
 11,562 - 70' (3 spf)  
 11,599 - 610' (3 spf)

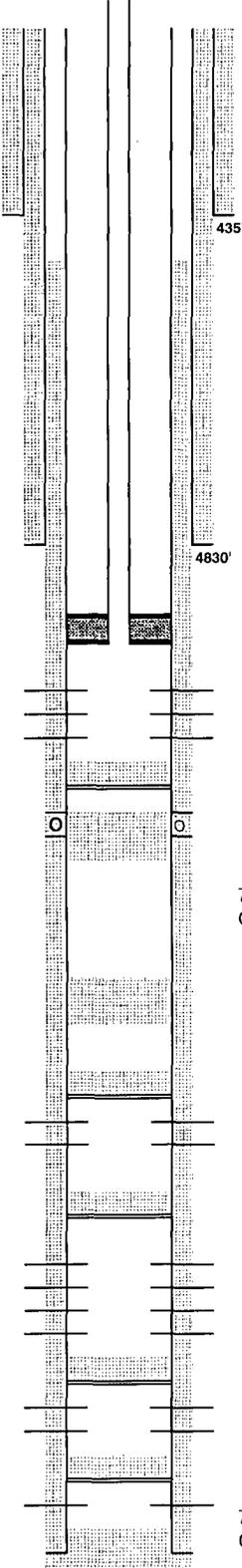
7" CIBP @ 13,330' w/ 15' cement

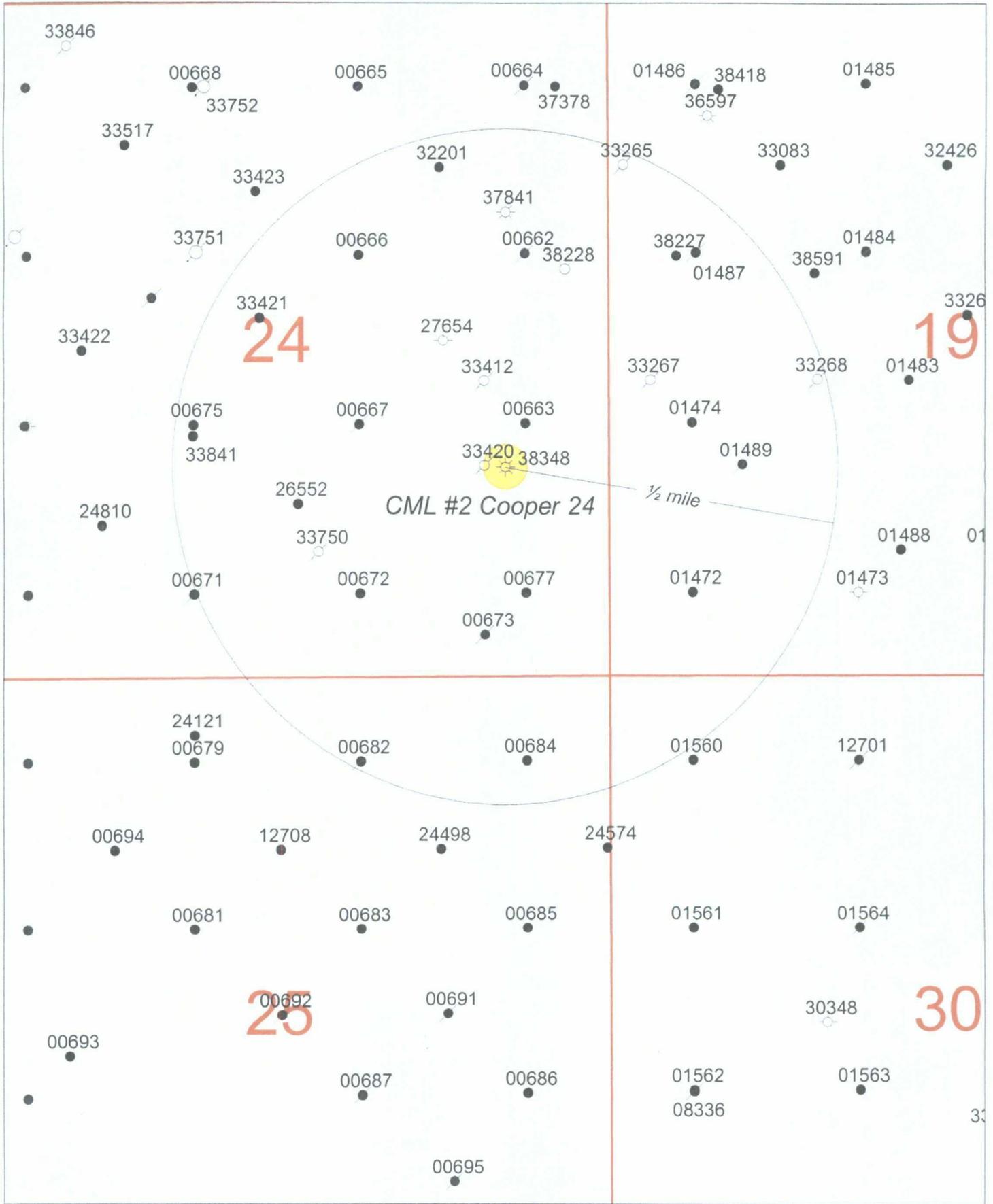
**Morrow Formation**

13,434 - 49' (3 spf)  
 13,484 - 97' (3 spf)  
 7" CIBP @ 13,570' w/ 20' cement  
 13,594- 13,617' (3 spf)

7"29#- P-110 set @ 13,812'  
 Cmt'd 1st Stage w/ 1000 sks

PBTD: 6,200'  
 TD: 13,820'





1 inch = 1000 feet

Wells within half mile radius of  
CML #2 Cooper 24



Area wells that penetrate proposed injection zone of 5,823' - 6,077'

API#	Operator	Well Name	Well #	ID	Well type	Date Drilled	Location	Productive Perfs
30-025-32201	FOREST OIL CORP	CAPROCK MALJAMAR UNIT	173 (15)	5938	OIL	10/30/1993	1305 FNL & 1336 FEL OF Sec 24, T-17S, R-32E, Lea County, NM	4114-4134', 4330-5797'
30-025-37841	CML EXPLORATION, LLC	<i>Dve 7050</i> COOPER 24 FED COM	1	<i>PCO 4750</i> 13805	GAS	7/2/2006	1650' FNL & 800' FEL of Sec 24, T-17S, R-32E, Lea County, NM	13438-13620'
30-025-38227	CML EXPLORATION, LLC	PADDY 19 STATE	1	6220	OIL	4/10/2007	1995' FEL & 550' FWL of Sec 19, T-17S, R-33E, Lea County, NM	5826-6010'

## **PADDOCK FORMATION**

The Paddock Formation is a lower member of what is generally termed in this area of Eastern New Mexico as the Glorieta Formation. The Paddock is approximately 500' thick in this area and generally encountered at a depth of 5,800' to 6,300'. This interval is dominated by a largely dolomite section containing some limestone with occasional anhydrite and other evaporate stringers, usually less than 1 (one) foot in thickness. Porosity appears to be secondary developed, primarily due to 'leaching' of the dolomite. Permeability is significantly enhanced by the presence of some micro-fractures, both open and healed. Whole core and rotary sidewall core data suggests this interval to be highly variable in both porosity and permeability, obviously effected by the presences of some micro-fracturing over small structural compaction features. Some of this micro-fracturing has been observed to be filled or 'healed' by the deposition of secondary calcite and anhydrite. Porosity has been observed ranging from 2.7% to 15.8 % with permeability widely ranging from 0.03 milidarcies to 10.4 milidarcies. There is definitely not a porosity/permeability relationship present in this formation.

Fresh water is not abundant in this area, regionally located off of the local caprock. However, a very few early records from cable tool wells suggests the presence of some fresh water in depths ranging from 200' to 320', probably of the Cretaceous Age Edwards or Trinity group. There has not been any fresh water reported below this interval probably due to the large amounts of salt present in the Rustler formation.

**Rick L. Albin  
Petroleum Geologist**

**CML EXPLORATION, LLC**

**COOPER 24 FEDERAL NO. 2**

**Proposed Stimulation Program**

1. Perforate additional Paddock intervals w/ 4" casing gun (5911 – 17'), (5937 – 43'), (5980 – 97'), (6021 – 45') & (6063 – 77').
2. Acidize all Paddock perms with 6000 gals of 20% HCL acid and 2000 Lbs of rock salt.
3. Run injection packer and injection tubing. Perform MIT @ 500 psi for 30 minutes.

CML EXPLORATION, LLC

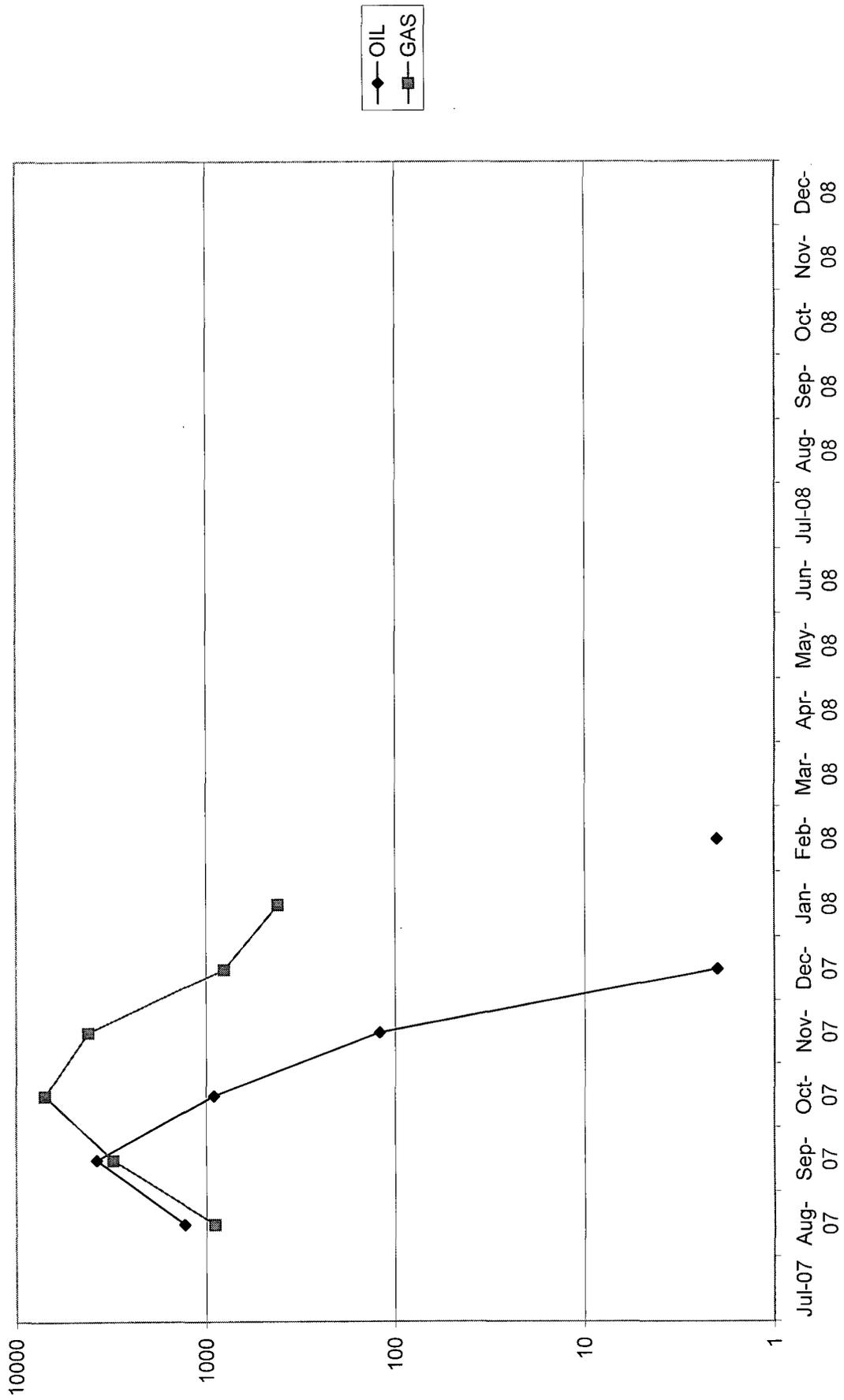
COOPER 24 FED NO. 2

MONTHLY PRODUCTION

LEAMEX; CISCO POOL

	OIL	GAS
Jul-07		
Aug-07	1301	899
Sep-07	3765	3080
Oct-07	908	7031
Nov-07	121	4151
Dec-07	2	801
Jan-08	0	416
Feb-08	2	0
Mar-08	0	0
Apr-08		
May-08		
Jun-08		
Jul-08		
Aug-08		
Sep-08		
Oct-08		
Nov-08		
Dec-08		
<b>Totals</b>	6,099	16,378

# COOPER 24 FEDERAL # 2 MONTHLY PRODUCTION



# Pro-Kem, Inc.

## WATER ANALYSIS REPORT

### SAMPLE

Oil Co. : **Patterson Petroleum**  
 Lease : **Paddy 19 St.**  
 Well No.: **1**  
 Location:  
 Attention:

Date Sampled : **13-April-2007**  
 Date Analyzed: **20-April-2007**  
 Lab ID Number: **Apr2007.002- 3**  
 Salesperson :  
 File Name : **Apr2007.002**

### ANALYSIS

- |                              |       |
|------------------------------|-------|
| 1. Ph                        | 5.800 |
| 2. Specific Gravity 60/60 F. | 1.148 |
| 3. CACO3 Saturation Index    | @ 80F |
|                              | @140F |

0.146 Mild  
 1.366 Severe

#### Dissolved Gasses

	MG/L.	EQ. WT.	*MEQ/L
4. Hydrogen Sulfide	20		
5. Carbon Dioxide	300		
6. Dissolved Oxygen	Not Determined		

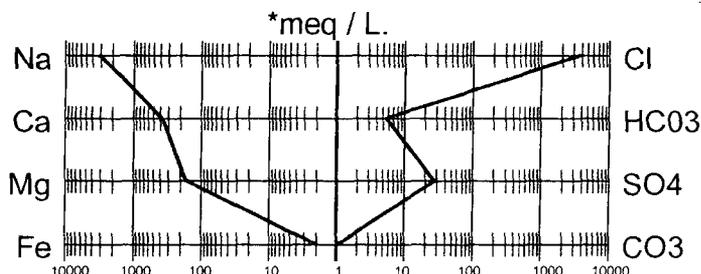
#### Cations

7. Calcium (Ca++)	7,295	/ 20.1 =	362.94
8. Magnesium (Mg++)	1,960	/ 12.2 =	160.66
9. Sodium (Na+) (Calculated)	69,057	/ 23.0 =	3,002.48
10. Barium (Ba++)	Not Determined		

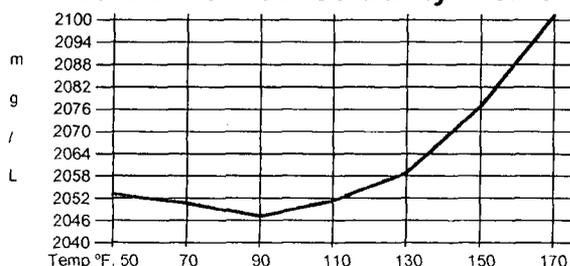
#### Anions

11. Hydroxyl (OH-)	0	/ 17.0 =	0.00
12. Carbonate (CO3=)	0	/ 30.0 =	0.00
13. Bicarbonate (HCO3-)	317	/ 61.1 =	5.19
14. Sulfate (SO4=)	1,300	/ 48.8 =	26.64
15. Chloride (Cl-)	123,972	/ 35.5 =	3,492.17
16. Total Dissolved Solids	203,901		
17. Total Iron (Fe)	33.50	/ 18.2 =	1.84
18. Manganese (Mn++)	Not Determined		
19. Total Hardness as CaCO3	26,283		
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	5.19		81.04	420
CaSO4	26.64		68.07	1,813
CaCl2	331.11		55.50	18,376
Mg(HCO3)2	0.00		73.17	0
MgSO4	0.00		60.19	0
MgCl2	160.66		47.62	7,650
NaHCO3	0.00		84.00	0
NaSO4	0.00		71.03	0
NaCl	3,000.41		58.46	175,404

\* milliequivalents per Liter

*Kevin Byrne*

Kevin Byrne, Analyst

P.O. BOX 88  
MIDLAND, TX. 79702  
PHONE (432) 683-4521

Martin Water Laboratories, Inc.

709 W. INDIANA  
MIDLAND, TEXAS 79701  
FAX (432) 682-8818

RESULT OF WATER ANALYSES

TO: Rick Albin LABORATORY NO. 606-3  
1004 N Big Spring, Suite 523, Midland, TX 79701 SAMPLE RECEIVED 5-31-06  
RESULTS REPORTED 6-1-06

COMPANY Patterson Petroleum LEASE Cooper 24 Fed #1  
FIELD OR POOL \_\_\_\_\_  
SECTION \_\_\_\_\_ BLOCK \_\_\_\_\_ SURVEY \_\_\_\_\_ COUNTY Lea STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:  
NO. 1 Submitted water sample - taken 5-31-06 from sampler.  
NO. 2 \_\_\_\_\_  
NO. 3 \_\_\_\_\_  
NO. 4 \_\_\_\_\_

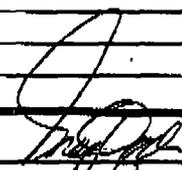
REMARKS: DST #1 - Paddock - 5,790'-5,865'

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0245			
pH When Sampled				
pH When Received	6.93			
Bicarbonate as HCO <sub>3</sub>	110			
Supersaturation as CaCO <sub>3</sub>				
Undersaturation as CaCO <sub>3</sub>				
Total Hardness as CaCO <sub>3</sub>	3,800			
Calcium as Ca	1,440			
Magnesium as Mg	49			
Sodium and/or Potassium	9,629			
Sulfate as SO <sub>4</sub>	3,480			
Chloride as Cl	14,910			
Iron as Fe	220			
Barium as Ba	0			
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	29,617			
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen				
Hydrogen Sulfide	0.0			
Resistivity, ohm-cm at 77° F.	0.271			
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks In comparing these results with our nearest Paddock records, which are in the Vacuum field, we do not see good correlation. This sample has substantially lower total hardness, calcium, sodium, and chloride levels and a higher sulfate than would be expected from a natural Paddock.

Form No. 3

By   
Greg Ogden, B.S.

# CML Exploration, LLC

1004 N. Big Spring, Suite 523  
Midland, Texas 79701

Telephone: (432) 685-1414  
Facsimile: (432) 685-1133

September 2, 2008

Re: Faulting / Hydrologic Connection  
CML Exploration, LLC  
Cooper Federal '24' #2 well  
Sec 24 – TWP 17S – R 32E  
Lea Co., New Mexico

## AFFIRMATIVE STATEMENT

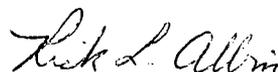
Gentlemen:

Pursuant to one of the requirements concerning the conversion of the subject well to salt water disposal, I have examined all the well log data and other engineering data available within a 3 (three) mile radius of the subject well. Analysis of the data does not reveal any faulting, vertical or lateral displacement of formations or open faults to be present from the base of the Paddock Formation at a depth of approximately 5808' to the top of the Rustler Formation at a depth of approximately 1,137'. The presence of thick salt stringers has been noted at depths ranging from 670' to as deep as 1,570'.

The existence of numerous water injection wells were noted in the Caprock Maljamar Unit, currently operated by Forest Oil Corp. and located in immediate proximity to the subject well. The perforations and injection intervals for these wells are in the Grayburg/San Andres Formations at approximate depths ranging from 3,900' to 4,400'. Sufficient engineering data is not available to review the integrity of the injection intervals for these wells.

In conclusion, after careful review of all of the well log and other engineering data available for the nearby wells, there is not any subsurface evidence to suggest the presence of faulting by lateral or vertical displacement in the subsurface, in, at or near the proposed Paddock Formation saltwater disposal interval.

Yours truly,



Rick L. Albin  
Petroleum Geologist

AFFIDAVIT OF PUBLICATION

State of New Mexico,  
County of Lea.

I, KATHI BEARDEN

PUBLISHER

of the Hobbs News-Sun, a news-  
paper published at Hobbs, New  
Mexico, do solemnly swear that  
the clipping attached hereto was  
published in the regular and entire  
issue of said paper, and not a sup-  
plement thereof for a period

of 2 issue(s).

Beginning with the issue dated

JULY 23, 2008

and ending with the issue dated

JULY 30, 2008

*Kathi Bearden*  
\_\_\_\_\_  
PUBLISHER

Sworn and subscribed to before

me this 30th day of  
JULY, 2008

*Dora Montz*  
\_\_\_\_\_  
Notary Public.

My Commission expires

February 07, 2009

(Seal)



OFFICIAL SEAL  
DORA MONTZ  
NOTARY PUBLIC  
STATE OF NEW MEXICO

My Commission Expires: \_\_\_\_\_

This newspaper is duly qualified to  
publish legal notices or advertise-  
ments within the meaning of  
Section 3, Chapter 167, Laws of  
1937, and payment of fees for said  
publication has been made.

**LEGAL**  
**JULY 23, 30, 2008**

NOTICE OF APPLICATION FOR FLUID INJECTION WELL  
PERMIT

CML EXPLORATION, LLC, P. O. Box 890, Snyder, TX  
79550 is applying to the Oil Conservation Division of New  
Mexico for a permit to inject fluid into a formation, which is  
productive of oil and gas.

The applicant proposes to inject fluid into the Paddock for-  
mation of the Cooper 24 Federal #2 well which is located  
1650' FSL & 810' FEL of Section 24, Township 17S, Range  
32E in Lea County. Fluid will be injected into strata in the  
subsurface depth interval at 5,823'.

Interested parties must file objections or requests for hear-  
ing with the Oil Conservation Division, 1220 South St. Fran-  
cis Dr., Santa Fe, New Mexico 87505 within 15 days. The  
contact party for this applicant is Nolan Von Roeder, 325-  
573-1938.

#24256

02108842-000 02601801  
REBECCA BOYD  
CML EXPLORATION  
P.O. BOX 890  
SNYDER, TX 79550

# CML Exploration, LLC

P.O. Box 890  
Snyder, Texas 79550-0890

Telephone: (325) 573-0750  
Facsimile: (325) 573-0749

September 9, 2008

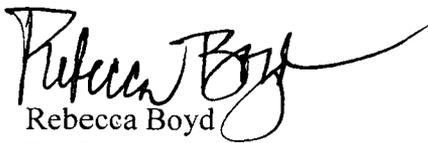
ATTN: Jami Bailey  
NEW MEXICO STATE LAND OFFICE  
OIL, GAS, AND MINERALS DIVISION  
P.O. BOX 1148  
310 OLD SANTA FE TRAIL  
SANTA FE, NM. 87504-1148

RE: Application for Authorization to Inject  
Cooper 24 Federal #2 well  
Lea County, New Mexico

CML Exploration, LLC has applied with the State of New Mexico Oil Conservation Division to convert the referenced well to an injection well. For your review, a copy of the application is enclosed.

Please contact this office with any questions or concerns.

Sincerely,

  
Rebecca Boyd  
Production Assistant

Encs

# CML Exploration, LLC

P.O. Box 890  
Snyder, Texas 79550-0890

Telephone: (325) 573-0750  
Facsimile: (325) 573-0749

July 23, 2008

Mr. Olane Caswell  
1702 Gillham Dr.  
Brownfield, Texas 79316

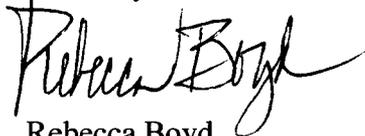
RE: Application for Authorization to Inject  
Cooper 24 Federal #2 well  
Lea County, New Mexico

Dear Mr. Caswell,

CML Exploration, LLC has applied with the State of New Mexico Oil Conservation Division to convert the referenced well to an injection well. For your review, a copy of the application is enclosed.

Please contact this office with any questions or concerns.

Sincerely,



Rebecca Boyd  
Production Assistant

Encs

# CML Exploration, LLC

P.O. Box 890  
Snyder, Texas 79550-0890

Telephone: (325) 573-0750  
Facsimile: (325) 573-0749

July 23, 2008

Forest Oil Corporation  
707 17<sup>th</sup> St, Ste 3600  
Denver CO 80202

RE: Application for Authorization to Inject  
Cooper 24 Federal #2 well  
Lea County, New Mexico

CML Exploration, LLC has applied with the State of New Mexico Oil Conservation Division to convert the referenced well to an injection well. For your review, a copy of the application is enclosed.

Please contact this office with any questions or concerns.

Sincerely,



Rebecca Boyd  
Production Assistant

Encs

# CML Exploration, LLC

P.O. Box 890  
Snyder, Texas 79550-0890

Telephone: (325) 573-0750  
Facsimile: (325) 573-0749

July 23, 2008

ARCO/Sinclair Oil & Gas  
P. O. Box 30825  
Salt Lake City, Utah 84130

RE: Application for Authorization to Inject  
Cooper 24 Federal #2 well  
Lea County, New Mexico

CML Exploration, LLC has applied with the State of New Mexico Oil Conservation Division to convert the referenced well to an injection well. For your review, a copy of the application is enclosed.

Please contact this office with any questions or concerns.

Sincerely,



Rebecca Boyd  
Production Assistant

Encs

# CML Exploration, LLC

P.O. Box 890  
Snyder, Texas 79550-0890

Telephone: (325) 573-0750  
Facsimile: (325) 573-0749

July 23, 2008

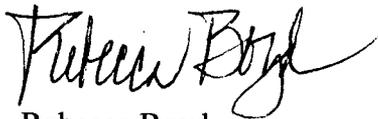
Conoco/Phillips Company  
3401 East 30<sup>th</sup> St  
Farmington, New Mexico 87402

RE: Application for Authorization to Inject  
Cooper 24 Federal #2 well  
Lea County, New Mexico

CML Exploration, LLC has applied with the State of New Mexico Oil Conservation Division to convert the referenced well to an injection well. For your review, a copy of the application is enclosed.

Please contact this office with any questions or concerns.

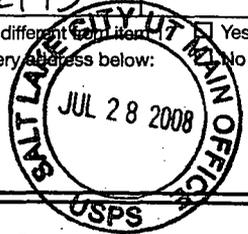
Sincerely,



Rebecca Boyd  
Production Assistant

Encs

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> <li>Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>		A. Signature <input checked="" type="checkbox"/> <i>Kent Jeff</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee	
1. Article Addressed to: <i>Arco/Sindair O&amp;G</i> <i>P.O. Box 30825</i> <i>Salt Lake City UT</i> <i>84130</i>		B. Received by (Printed Name) <i>Kent Jeff</i>	
		C. Date of Delivery  D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No	
		3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.	
		4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes	
2. Article Number (Transfer from service label)		7007 0220 0003 9044 0558	
PS Form 3811, February 2004		Domestic Return Receipt	
		102595-02-M-1540	



SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> <li>Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>		A. Signature <input checked="" type="checkbox"/> <i>Alysa Williams</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee	
1. Article Addressed to: <i>CONOCO/PHILLIPS CO.</i> <i>3401 E. 30th St.</i> <i>Farmington NM 87402</i>		B. Received by (Printed Name) <i>Alysa Williams</i>	
		C. Date of Delivery <i>7/28/08</i>	
		D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No	
		3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.	
		4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes	
2. Article Number (Transfer from service label)		7007 0220 0003 9044 0572	
PS Form 3811, February 2004		Domestic Return Receipt	
		102595-02-M-1540	

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> <li>Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>		A. Signature <input checked="" type="checkbox"/> <i>Synthia Williams</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee	
1. Article Addressed to: <i>FOREST OIL CORPORATION</i> <i>707 17th St, Ste 3600</i> <i>Denver CO 80202</i>		B. Received by (Printed Name)  C. Date of Delivery <i>7-28-08</i>	
		D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No	
		3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.	
		4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes	
2. Article Number (Transfer from service label)		7007 0220 0003 9044 0565	
PS Form 3811, February 2004		Domestic Return Receipt	
		102595-02-M-1540	

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:  
*Olane Caswell*  
*1702 Gillham Dr.*  
*Brownfield TX 79316*

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  Agent  Addressee  
*x LaDoyce Caswell*

B. Received by (Printed Name)  Agent  Addressee  
*LaDoyce Caswell*

C. Date of Delivery  
*8-6-08*

D. Is delivery address different from item 1?  Yes  No  
 If YES, enter delivery address below:

3. Service Type  
 Certified Mail  Express Mail  
 Registered  Return Receipt for Merchandise  
 Insured Mail  C.O.D.

4. Restricted Delivery? (Extra Fee)  Yes

2. Article Number (Transfer from service label) **7007 0220 0003 9044 0543**

7007 0220 0003 9044 0992

**U.S. Postal Service<sup>™</sup>**  
**CERTIFIED MAIL<sup>™</sup> RECEIPT**  
*(Domestic Mail Only, No Insurance Coverage Provided)*

For delivery information visit our website at [www.usps.com](http://www.usps.com)

**OFFICIAL USE**

Postage	\$	Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	

Sent To *Jami Bailey, NM State Land Office*

Street, Apt. No., or PO Box No. *P.O. Box 1148*

City, State, ZIP+4 *Santa Fe, NM 87504-1148*

PS Form 3800, August 2006 See Reverse for Instructions

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.**

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		Lease Serial No <b>LC-059152b</b>
2. Name of Operator <b>PATTERSON PETROLEUM LP</b>		6. If Indian, Allottee or Tribe Name
3a. Address <b>P.O. Drawer 1416, Snyder, TX 79550</b>		7. If Unit or CA/Agreement, Name and/or No
3b. Phone No (include area code) <b>325/573-1938</b>		8. Well Name and No <b>Cooper 24 Federal Com. No. 2</b>
4. Location of Well (Footage, Sec., T. R. M. or Survey Description) <b>1650' FSL &amp; 810' FWL I-24-17S-32E</b>		9. API Well No <b>30-025-38348</b>
		10. Field and Pool, or Exploratory Area <b>Leamex Morrow West</b>
		11. County or Parish, State <b>LEA, NEW MEXICO</b>

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input 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 checked="" 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 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 recomplate 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.)

Spudded well @1:30 p.m. 03/25/07.

Ran 10 jts 13-3/8" 48#/ft H40 ST&C casing w/5 centralizers, set @435'. Cemented w/500 sx class Premium Plus Neat & 2% CCL. Circulated 134 sx to the pit. Plug down @5:25 a.m. 03/26/07.

Ran 108 jts 9-5/8" 40# casing w/10 centralizers, set @4830'. Cemented w/2250 sx of HLPP w/5#/sx flocele. Tailed w/250 sx class "C" neat. Circulated 487 sx to the pit. Plug down @5:30 p.m. 04/06/07.

Ran 310 jts 7" 29#/ft P110 LT&C casing, set @13,812'. Ran 30 centralizers evenly spaced from 13,800' to 11,000'. Ran 38 turbulators across potential pay zones. Cemented 1st stage w/500 sx HLP w/5% salt & .3% HR-7 retarder. Tailed w/500 sx Super H w/5% LAP-1 + .4% CFR-3 = .25E/sk D-Air 3000 & .2% HR-7 retarder. Plug down @6:00 p.m. Circulated ±50 sx to pit. Cemented 2nd stage w/200 sx HLP w/5% salt & 400 sx PP w/5% LAP-1 + .4% CFR-3 & .25#/sk D-Air. Plug down @11:40 p.m. 05/29/07.

Rig released @10:00 a.m. CST 05/30/07.

ACCEPTED FOR RECORD

JUN 20 2007

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

Nolan von Roeder

Title Engineer

Signature

Date

06/07/2007

LES BABYAK  
PETROLEUM ENGINEER

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

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.

Title

Date

Office

Title 18 USC Section 1001 and Title 43 USC 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

PATTERSON PETROLEUM LLC  
P.O. DRAWER 1416  
SNYDER, TX 79550  
325/573-1938

**COOPER 24 FEDERAL COM NO. 2**

Sec. 24, T-17-S, R-32-E  
Lea County, New Mexico  
Property Code #36386 – API #30-025-38348

DAILY COMPLETION REPORT

07/12/07 MIRUPU. NUBOP. Picked up 6" bit with 6 – 4" drill collars. Tagged DV tool @6977'. Drilled out DV tool. Tested good to 2500 psi. Picked up 2-3/8" tubing & ran in the hole to PBTD @13,753'. Circulated hole with 500 bbl of 10# brine water. Shut well in for night.

07/13/07 Pulled out of the hole with tubing, drill collars & bit. Rigged up Gray Wireline & ran GR/CBL/CCL from 13,753' to 11,000', 7000' to 3900' & across top of cement @850'. Good bond across Morrow zones. Perforated Lower Morrow (13,594' – 13,617') w/4" casing gun 3 spf & 120° phasing. Rigged down wireline. Ran in the hole with 7" Arrowset I 10K packer, 1.78" R nipple, on-off tool & 415 jts of 2-3/8" N80 tubing. Left packer swinging @13,621'. SWIFN.

07/14/07 TP = slight vacuum. Rigged up Halliburton. Spotted 200 gals acid across perfs. Laid down 6 jts tubing. Set packer @13,412' w/15 pts compression. NDBOP, NU rental tree. Tested tree seal to 8000 psi. Pressured casing to 2000 psi. Breakdown formation 1 bpm & 4000 psi. Pumped an additional 2300 gals of Claysafe "H" acid w/40 ball sealers. Acid on formation @ 3 bpm & 7400 psi. Increased rate to 3.5 bpm & 8040 psi. Increased to 4 bpm @8300 psi. Flushed w/6% KCL water. Total load = 178 bbls. ISIP = 5852 psi, 5 min = 5349 psi, 10 min = 5099 psi, 15 min = 4910 psi, 30 min = 4594 psi, 90 min = 3300 psi. Opened well on adjustable choke. Bled down to 0 psi in 3 minutes. Flowing back load water through 2". Rigged up swab. IFL @surface. Made 13 swab runs. FFL = 11,000'. Acid water & acid gas. Recovered ±90 bbls of load water. SWIFN.

**TUBING DETAIL**

409 – jts 2-3/8" N80 4.7# tubing	13,389.35'
T-2 On-off tool	1.70'
2-3/8" x 2-7/8" crossover	0.36'
7" x 2-7/8" Arrowset-1X 10K packer	7.80'
KB adjustment	13.00'
Packer setting depth	<u>13,412.21'</u>

07/15/07 SITP = 250 psi. Opened well up on adjustable choke. Blew down in 5 minutes to 0 psi. Shut well back in.

RECEIVED  
Form 3160-3 (February 2005)

OCD-HOBBS

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

AUG 21 2008

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

5. Lease Serial No.	LC-059152(b)
6. If Indian, Allottee or Tribe Name	

SUBMIT IN TRIPLICATE - Other instructions on page 2.

7. If Unit of CA/Agreement, Name and/or No.	
8. Well Name and No.	COOPER 24 FEDERAL NO. 2
9. API Well No.	30-025-38348
10. Field and Pool or Exploratory Area	
11. Country or Parish, State	LEA, NM

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	
2. Name of Operator CML EXPLORATION, LLC	
3a. Address P.O. BOX 890 SNYDER, TX 79550	3b. Phone No. (include area code) 325-573-1938
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1650' FSL & 810' FEL, I, 24, T17S, R32E	

12. CHECK THE 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 checked="" 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 checked="" 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 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.)

Spot 35 sk cement plug from 8350' - 8150' *A-ent below 7500'*  
 Spot 40 sk cement plug from 7150' - 6900'  
 Set CIBP @6235' & dump bail 35' cement on top.  
 PBTD = 6200'  
 Perforate additional Paddock (5911-17'), (5937-43'), (5980-97'), (6021-45') & (6063-77'). Acidize w/6000 gals of 20% HCL acid + 2000 lbs rock salt.  
 Perform injectivity test. Run injection tubing & packer. Set @±5800'. Circulate packer fluid. Flange up well. Perform MIT @500 psi for 30 minutes.

Wait on salt water disposal permit.

\* Contact Hobbs office 24 hrs prior to start @ 575-393-3612

SUBJECT TO LIKE  
APPROVAL BY STATE

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) Nolan von Roeder	Title ENGINEER	SEE ATTACHED FOR CONDITIONS OF APPROVAL
Signature <i>Nolan von Roeder</i>	Date 06/13/2008	

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

APPROVED  
AUG 16 2008  
JAMES A. AMOS  
SUPERVISOR

Approved by	Title
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)

*LAG*

**Jones, William V., EMNRD**

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**From:** Jones, William V., EMNRD  
**Sent:** Friday, October 17, 2008 11:36 AM  
**To:** 'vonroedern@cmlxp.com'  
**Cc:** Ezeanyim, Richard, EMNRD; Kautz, Paul, EMNRD  
**Subject:** Injection application from CML Exploration LLC for Cooper 24 Fed #2 30-025-38348

Hello Nolan:

Thank you for this application - it was very complete and the well file for this well is very detailed also.

There are just a couple requests and we can get this out. If additional notice must be provided, then we must wait 15 days after that notice date.

- 1) Please check the surface owner again - it appears to be a Federal well but you noticed the State Land office as the surface owner, is this correct? If the BLM does own the surface where the well is, please provide them formal notice with a copy of the complete application and let me know.
- 2) The well file states that a CIBP has been installed at 6235 feet which would be fine for injection above this depth - but your wellbore diagram does not show this. Please send a "Before Conversion" and an "After Conversion" wellbore diagram.
- 3) What happened to Wiser Oil company? they did own leases in this area - who took their leases? (if you know)
- 4) Since this will be an injection well and a CBL was run on it - please send a copy of the CBL to Paul Kautz in Hobbs for scanning into the OCD imaging system.
- 5) If you can find any windmill or water well within 1 mile, please send a current analysis of this water in - we gather this data for future reference as injection applications are submitted.

Regards,

William V. Jones PE  
New Mexico Oil Conservation Division  
1220 South St. Francis  
Santa Fe, NM 87505  
505-476-3448

10/17/2008

**Jones, William V., EMNRD**

**From:** Nolan Von Roeder [vonroedern@cmlexp.com]  
**Sent:** Monday, October 20, 2008 4:08 PM  
**To:** Jones, William V., EMNRD  
**Cc:** Ezeanyim, Richard, EMNRD; Kautz, Paul, EMNRD  
**Subject:** RE: Injection application from CML Exploration LLC for Cooper 24 Fed #2 30-025-38348  
**Attachments:** COOPER24-2.xls

William,

Thanks for your feedback to this application. I have responses listed below according to your numbers:

- ✓ 1) We double checked the surface owner at this location through the State Land Office Data Access site and confirmed that this is state surface. The BLM has the mineral rights only. We will obtain a water injection easement from the SLO once the permit is granted.
- ✓ 2) The CIBP has not been installed @ 6235' as of this date. However, that is our plan along with the two other cement plugs once the application process has been finalized so that we don't have the workover equipment on the well twice. In other words, we didn't want to move on the well just to set the plugs and then go back later to install the injection equipment. I have attached "before" and "after" conversion wellbore diagrams to show this and will mail originals in with the cement bond log.
- ✓ 3) As best we can tell, Forrest Oil Company purchased all of Wiser Oil Company's properties in the area.
- ✓ 4) I apologize if the CBL wasn't sent in previously, I will send a copy to Paul Kautz.
- ✓ 5) We were not able to find a windmill or water well within one mile to obtain a sample for analysis. We looked all around in the field and on the State Engineers website, but did not find one.

Again, thanks for your attention to this matter and don't hesitate to let us know of any other questions or concerns.

Nolan von Roeder  
 Petroleum Engineer  
 CML Exploration, LLC  
 P.O. Box 890  
 Snyder, Tx 79550  
[vonroedern@cmlexp.com](mailto:vonroedern@cmlexp.com)  
 Phone: 325-573-1938  
 Cell : 325-207-2915

**From:** Jones, William V., EMNRD [mailto:William.V.Jones@state.nm.us]  
**Sent:** Friday, October 17, 2008 12:36 PM  
**To:** vonroedern@cmlexp.com  
**Cc:** Ezeanyim, Richard, EMNRD; Kautz, Paul, EMNRD  
**Subject:** Injection application from CML Exploration LLC for Cooper 24 Fed #2 30-025-38348

Hello Nolan:

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- 4) Since this will be an injection well and a CBL was run on it - please send a copy of the CBL to Paul Kautz in Hobbs for scanning into the

10/20/2008

**Injection Permit Checklist (7/8/08)**

Case \_\_\_\_\_ R- SWD 149 WFX \_\_\_\_\_ PMX \_\_\_\_\_ IPI \_\_\_\_\_ Permit Date 10/20/07 UIC Qtr \_\_\_\_\_  
 # Wells 1 Well Name: Cooper 24 Fed #2  
 API Num: (30-) 025-38348 Spud Date 3/25/07 New/Old: N (UIC primacy March 7, 1982)  
 Footages 1650 PSL / 810 PEL Unit I Sec 24 Tsp 175 Rge 32E County Lea  
 Operator: CML EXPLORATION, LLC Contact Nolan Von Roeder  
 OGEID: 296512 RULE 40 Compliance (Wells) 0/24 (Finan Assur) OK  
 Operator Address: P.O. Box 890 SNYDER, TX 79550

Current Status of Well: Dry Test in Paddock & Below

Planned Work to Well: Req more PDK and inject Planned Tubing Size/Depth: 2 7/8 @ 5175

	Sizes Hole.....Pipe	Setting Depths	Cement Sx or Cf	Cement Top and Determination Method
Existing <input checked="" type="checkbox"/> Surface	17 1/2 13 3/8	435	500	CIRC
Existing <input checked="" type="checkbox"/> Intermediate	12 1/4 9 5/8	4830	2500	CIRC
Existing <input checked="" type="checkbox"/> Long String	8 3/4 7"	13810	1000/1600	860 CBL

DV Tool 6982 Liner  Open Hole  Total Depth 13820 PBTD 9350

Well File Reviewed \_\_\_\_\_  
 Diagrams: Before Conversion  After Conversion  Elogs in Imaging File:

Intervals:	Depths	Formation	Producing (Yes/No)
Above (Name and Top)			
Above (Name and Top)			
Injection..... Interval TOP:	<u>5823</u>	<u>Paddock</u>	
Injection..... Interval BOTTOM:	<u>6077</u>	<u>"</u>	
Below (Name and Top)	<u>6300'</u>	<u>Bottom of Paddock</u>	

*Maljourn area (off of Caprock)*  
 1165 PSI Max. WHIP  
 NO Open Hole (Y/N)  
 NO Deviated Hole?  
 SWD-8341

Sensitive Areas: Capitan Reef \_\_\_\_\_ Cliff House \_\_\_\_\_ Salt Depths 670-1570'  
 .... Potash Area (R-111-P) \_\_\_\_\_ Rotash Lessee \_\_\_\_\_ Noticed? \_\_\_\_\_

Fresh Water: Depths: 200'-320' Wells(Y/N) NO Analysis Included (Y/N): \_\_\_\_\_ Affirmative Statement

Salt Water: Injection Water Types: See analysis Analysis? \_\_\_\_\_

Injection Interval.....Water Analysis:  Hydrocarbon Potential Tested & Depleted

Notice: Newspaper(Y/N)  Surface Owner Sto. Olave Correll Mineral Owner(s) BLM

RULE 701B(2) Affected Parties: Front Oil / Arcor / Sinclair / ConocoPhillips

Area of Review: Adequate Map (Y/N)  and Well List (Y/N)

Active Wells 3 Num Repairs 0 Producing in Injection Interval in AOR NO  
 ..P&A Wells 0 Num Repairs 0 All Wellbore Diagrams Included?

Questions to be Answered:  
See CIBP WITHIN 200' Bottom of Paddock?   
NOTICE USER OIL?

*Send CBL 7/13/07*

Required Work on This Well: \_\_\_\_\_ Request Sent \_\_\_\_\_ Reply: \_\_\_\_\_  
 AOR Repairs Needed: \_\_\_\_\_ Request Sent \_\_\_\_\_ Reply: \_\_\_\_\_  
 \_\_\_\_\_ Request Sent \_\_\_\_\_ Reply: \_\_\_\_\_

*5823  
1165  
46*

*BLM*