

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

N.M. Oil Cons. Division  
1625 N. French Dr.  
Hobbs, NM 88240

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT-" for such proposals

**SUBMIT IN TRIPLICATE**

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

2. Name of Operator  
CONCHO RESOURCES INC.

3. Address and Telephone No.  
110 W. LOUISIANA STE 410; MIDLAND, TX 79701 (915) 683-7443

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
1980' FSL & 660' FWL, SEC. 15, 23S, 32E.

5. Lease Designation and Serial No.  
NM95642

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.  
TOMCAT '15' FEDERAL COM #1

9. API Well No.  
3002533801

10. Field and Pool, or Exploratory Area  
TRISTE DRAW MORROW NORTH

11. County or Parish, State  
LEA, NM

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

TYPE OF SUBMISSION

- ☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☐ Other \_\_\_\_\_  
☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☒ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

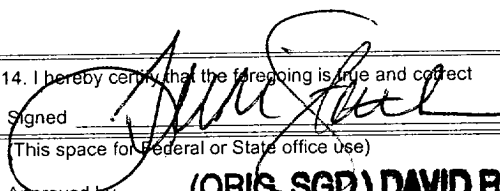
13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Concho Resources Inc. respectfully requests approval for water disposal on the above federal lease. The following information is provided so that our method of disposal will be considered for approval.

Name of formation producing water on the lease: MORROW  
Amount of water produced from the formation daily: 5/BPD  
Is water disposed into a pit? NO  
How is water stored on lease: 300 BBLS TANK  
How is water moved to disposal facility: TRANSFER PUMP/3" PIPELINE  
Operator of disposal system: CONCHO RESOURCES INC.  
Facility Name: Diamondtail 24A Federal #1 SWD  
Legal Location: SW/4 NW4, Sec. 24, T23S, R32E  
NMOC Permit Number: SWD 786

WATER ANALYSIS ATTACHED

14. I hereby certify that the foregoing is true and correct

Signed  Title Production Analyst Date 03/01/01

(This space for Federal or State office use)

Approved by (ORIG. SGD.) DAVID R. GLASS Title PETROLEUM ENGINEER Date MAR 06 2001  
Conditions of approval, if any:

Title 18 U.S.C. Section 1001 makes 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, or to furnish any information in violation of the jurisdiction.

\*See Instruction on Reverse Side



# MILLER CHEMICALS, INC.

Post Office Box 298  
Artesia, N.M. 88211-0298  
(505) 746-1919 Artesia Office  
(505) 393-2893 Hobbs Office  
(505) 746-1918 Fax

## WATER ANALYSIS REPORT

Company : CONCHO RESOURCES  
Address :  
Lease : TOMCAT 15  
Well : #1  
Sample Pt. : TANK

Date : 2 26-01  
Date Sampled : 2 18 01  
Analysis No. :

ANALYSIS	mg/L	meq/L
1. pH	6.4	
2. H2S	0	
3. Specific Gravity	1.025	
4. Total Dissolved Solids	33703.6	
5. Suspended Solids	NR	
6. Dissolved Oxygen	NR	
7. Dissolved CO2	NR	
8. Oil In Water	NR	
9. Phenolphthalein Alkalinity (CaCO3)		
10. Methyl Orange Alkalinity (CaCO3)		
11. Bicarbonate	HCO3 170.0	HCO3 2.8
12. Chloride	Cl 20661.0	Cl 582.8
13. Sulfate	SO4 50.0	SO4 1.0
14. Calcium	Ca 1480.0	Ca 73.9
15. Magnesium	Mg 511.0	Mg 42.0
16. Sodium (calculated)	Na 10822.6	Na 470.8
17. Iron	Fe 9.0	
18. Barium	Ba NR	
19. Strontium	Sr NR	
20. Total Hardness (CaCO3)	5800.0	

## PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter	Compound	Equiv wt X meq/L	mg/L
741 *Ca < - - - - - *HCO3	Ca(HCO3)2	81.0	226
421 *Mg < - - - - - *SO4	CaSO4	68.1	71
4711 *Na < - - - - - *Cl	CaCl2	55.5	3886
	Mg(HCO3)2	73.2	
	MgSO4	60.2	
	MgCl2	47.6	42.0
Saturation Values Dist. Water 20 C	NaHCO3	84.0	
CaCO3 13 mg/L	Na2SO4	71.0	
CaSO4 + 2H2O 2090 mg/L	NaCl	58.4	470.8
BaSO4 2.4 mg/L			27511

REMARKS:

SCALE TENDENCY REPORT  
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Company	: CONCHO RESOURCES	Date	: 2-26 01
Address	:	Date Sampled	: 2-18-01
Lease	: TOMCAT 15	Analysis No.	:
Well	: #1	Analyst	: STEVE TIGERT
Sample Pt.	: TANK		

STABILITY INDEX CALCULATIONS  
(Stiff-Davis Method)  
CaCO<sub>3</sub> Scaling Tendency

S.I.	=	-0.5	at	70 deg. F	or	21 deg. C
S.I.	=	-0.4	at	90 deg. F	or	32 deg. C
S.I.	=	-0.3	at	110 deg. F	or	43 deg. C
S.I.	=	-0.3	at	130 deg. F	or	54 deg. C
S.I.	=	0.2	at	150 deg. F	or	66 deg. C

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CALCIUM SULFATE SCALING TENDENCY CALCULATIONS  
(Skillman-McDonald-Stiff Method)  
Calcium Sulfate

S	=	2951	at	70 deg. F	or	21 deg C
S	=	3068	at	90 deg. F	or	32 deg C
S	=	3136	at	110 deg. F	or	43 deg C
S	=	3144	at	130 deg. F	or	54 deg C
S	=	3116	at	150 deg. F	or	66 deg C

Respectfully submitted,  
STEVE TIGERT