

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

N.M. Oil Cons. Division
811 S. 1st St
Artesia, NM 87003
1210-2834

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' FNL & 660' FEL, Sec. 30, T-18S, R-31E

5. Lease Designation and Serial No.

LC 029387B

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

West Shugart '30' Federal #10

9. API Well No.

30015 29487

10. Field and Pool, or Exploratory Area

North Shugart Morrow

11. County or Parish, State

Eddy, 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: Shugart Wolfcamp West

Amount of Water Produced from each Formation Daily: Shugart Wolfcamp West - .25 BPD

Is Water Disposed Into a Pit? No

How is Water Stored on Lease? 2 - 500 bbl fiberglass tanks

How is Water Moved to Disposal Facility? Truck

Operator of Disposal System: Controlled Recovery Inc. (CRI)

Facility Name: Halfway Facility

Legal Location: S/2 N/2 and N/2 S/2 Sec. 27, T-20S, R-32E, Lea County, New Mexico

NMOCD Permit Number: R9166.

WATER ANALYSIS ATTACHED

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

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

Signed

Title Production Analyst

Date MAY 13 1999

(This space for Federal or State office use)

ORIG SGD LES BABYAK

Approved by
Conditions of approval, if any:

Title

PETROLEUM ENGINEER

Date

MAY 13 1999

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**MILLER CHEMICALS, INC.**

Post Office Box 298
Artesia, N.M. 86211-0298
(505) 746-1919 Office
(505) 746-1918 Fax

WATER ANALYSIS REPORT

Company	: CONCHO RESOURCES	Date	: 4-19-99
Address	:	Date Sampled	: 4-17-99
Lease	: WEST SHUGART 30 FED.	Analysis No.	: 2023
Well	: #10		
Sample Pt.	: TANK		

ANALYSIS		mg/L	+ meq/L	
-----		----	-----	
1. pH	6.4			
2. H ₂ S	0			
3. Specific Gravity	1.005			
4. Total Dissolved Solids		2190.3		
5. Suspended Solids		NR		
6. Dissolved Oxygen		NR		
7. Dissolved CO ₂		NR		
8. Oil In Water		NR		
9. Phenolphthalein Alkalinity (CaCO ₃)				
10. Methyl Orange Alkalinity (CaCO ₃)				
11. Bicarbonate	HCO ₃	219.0	HCO ₃	3.6
12. Chloride	Cl	2130.0	Cl	60.1
13. Sulfate	SO ₄	125.0	SO ₄	2.6
14. Calcium	Ca	400.0	Ca	20.0
15. Magnesium	Mg	1991.9	Mg	163.9
16. Sodium (calculated)	Na	-2702.6	Na	-117.6
17. Iron	Fe	27.0		
18. Barium	Ba	0.0		
19. Strontium	Sr	0.0		
20. Total Hardness (CaCO ₃)		9200.0		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter	Compound	Equiv wt X meq/L	= mg/L
-----	-----	-----	-----
20 *Ca <----- *HCO ₃ 4	Ca(HCO ₃) ₂	81.0	291
/----->	CaSO ₄	60.1	177
164 *Mg -----> *SO ₄ 3	CaCl ₂	55.5	764
<-----/	Mg(HCO ₃) ₂	73.2	
-118 *Na -----> *Cl 60	MgSO ₄	60.2	
-----	MgCl ₂	47.6	2205
Saturation Values Dist. Water 20 C	NaHCO ₃	84.0	
CaCO ₃ 13 mg/L	Na ₂ SO ₄	71.0	
CaSO ₄ * 2H ₂ O 2090 mg/L	NaCl	58.4	
BaSO ₄ 2.4 mg/L			

REMARKS:

SCALE TENDENCY REPORT

Company	: CONCHO RESOURCES	Date	: 4-19-99
Address	:	Date Sampled	: 4-17-99
Lease	: WEST SHUGART 30 FED.	Analysis No.	: 2023
Well	: #10	Analyst	: STEVE TIGERT
Sample Pt.	: TANK		

STABILITY INDEX CALCULATIONS
(Stiff-Davis Method)
CaCO₃ Scaling Tendency

S.I.	=	-0.6	at	70 deg. F	or	21 deg. C
S.I.	=	-0.6	at	90 deg. F	or	32 deg. C
S.I.	=	-0.6	at	110 deg. F	or	43 deg. C
S.I.	=	-0.5	at	130 deg. F	or	54 deg. C
S.I.	=	-0.5	at	150 deg. F	or	66 deg. C

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

S	=	2032	at	70 deg. F	or	21 deg C
S	=	2083	at	90 deg. F	or	32 deg C
S	=	2103	at	110 deg. F	or	43 deg C
S	=	2090	at	130 deg. F	or	54 deg C
S	=	2065	at	150 deg. F	or	66 deg C

Respectfully submitted,
STEVE TIGERT

RECEIVED
APR 20 39
ROSELLE, NM