

Drawer DD
Artesia, NM 88210

CISF

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

5. Lease Designation and Serial No.

NM 9018

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE

7. If Unit or CA, Agreement Designation

1. Type of Well

- Oil Well
- Gas Well
- Other

8. Well Name and No.

Remington Federal #1, #2

2. Name of Operator

Chi Operating, Inc

9. API Well No.

30-015-27222

3. Address and Telephone No.

PO Box 1799 Midland TX 79702 915 685-5001

10. Field and Pool, or Exploratory Area

Old Millman Parish Bone Sp

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

UNIT LETTER M, 660' FWL + 990' FSL SEC 3, T 20S, R 28E

11. County or Parish, State

K-3-20S-28E 1980 FSL 1980 FWL

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

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B. L. D.
ARTESIA OFFICE

(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.)

APPLICATION FOR DISPOSAL OF PRODUCED WATER

- 1) FORMATION: 12th BONE SPRING SAND
- 2) CURRENT WATER PRODUCTION (COMBINED): 33 BWPD
- 3) WATER ANALYSIS: ATTACHED
- 4) WATER IS STORED ON LEASE IN 210 FIBERGLASS WATER TANK + 500 BBL STEEL TANK.
- 5) WATER IS TRANSPORTED TO DISPOSAL FACILITY VIA TRUCK (SCURLOCK PERMIAN)
- 6) SWD - ROHMER SWD, SE NW SEC 23 T 22S R 27E
NMOC PERMIT 020445

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

Signed [Signature]

Title OPERATIONS MANAGER

Date 11/10/94

(This space for Federal or State office use)

Orig. Signed by Adam Salameh

Petroleum Engineer

Approved by

Title _____

Date 12/13/94

Conditions of approval, if any:

- SEE ATTACHED -

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 as to any matter within its jurisdiction.

(rev. 3/10/94)

BUREAU OF LAND MANAGEMENT
CARLSBAD RESOURCE AREA

Disposal of Produced Water From Federal Wells

Conditions of Approval

Approval of the produced water disposal methodology is subject to the following conditions of approval:

1. This agency be notified of any change in your method or location of disposal.
2. Compliance with all provisions of Onshore Oil and Gas Order No. 7.
3. This agency shall be notified of any spill or discharge as required by NTL-3A.
4. This agency reserves the right to modify or rescind approval whenever it determines continued use of the approved method may adversely affect the surface or subsurface environments.
5. All aboveground structures on the lease shall be painted sandstone brown, Federal Std. 595-20318, or 30318, within 90 days if you have not already done so.
6. Any on lease open top storage tanks or pits shall be covered with a wire screen or plastic/nylon netting to prevent entry by birds and other wildlife.
7. This approval does not constitute right-of-way approval for any off lease activities. If water is transported via a pipeline that extends beyond the lease boundary, then you need to submit within 30 days an application for right-of-way approval to the Realty Section in this office if you have not already done so.



P.O. BOX 2187
SBS, N.M. 88240

PHONE: (505) 393-7726

WATER ANALYSIS REPORT

Report for: David Myers	Date sampled: 05/09/94
cc: Mike Edwards	Date reported: 05/11/94
cc:	Lease or well # : Remington Fed. #1&2
cc:	County: State:
Company: C.H.I. Energy	Formation:
Address:	Depth:
Service Engineer: Mike Edwards	Submitted by: Mike Edwards

CHEMICAL COMPOSITION :	mg/L	meq/L
Chloride (Cl)	117500	3315
Iron (Fe) (total)	6.0	
Total hardness	8800	
Calcium (Ca)	2867	143
Magnesium (Mg)	400	32
Bicarbonates (HCO3)	500	8
Carbonates (CO3)	0	
Sulfates (SO4)	582	12
Hydrogen sulfide (H2S)	0	
Carbon dioxide (CO2)	755	
Sodium (Na)	72670	3160
Total dissolved solids	194521	
Barium (Ba)	n/a	
Strontium (Sr)	n/a	

Specific Gravity 1.138
Density (#/gal.) 9.484
pH 6.660
IONIC STRENGTH 3.43

Stiff-Davis (CaCO3) Stability Index :
SI = pH - pCa - pAlk - K

SI @ 86 F = +0.61
104 F = +0.84
122 F = +1.10
140 F = +1.39
158 F = +1.71

This water is 3186 mg/l (-79.43%) under ITS CALCULATED
CaSO4 saturation value at 82 F.
SATURATION= 4011 mg/L PRESENT= 825 mg/L

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REPORTED BY ROBERT C MIDDLETON *RCM*
TECHNICAL SERVICES REPRESENTATIVE

BJ SERVICES

WATER ANALYSIS

Date: 5/12/94
Company: Chi Energy
Well Name: Remington #1&2
County: Eddy
State: New Mexico
Station: Hobbs

Report #: 14W-020
Sample #: 2 of 5
Formation: Bone Springs
Depth: 7000
H₂O Type: Wellhead
Requested By: John Wolf

pH: 6.58
Temperature (°F): 60
Specific Gravity: 1.133

Sulfide: Absent
Reducing Agents: Absent
S.G. 60°F: 1.133

<u>CATIONS</u>	<u>mg/l</u>	<u>me/l</u>	<u>ppm</u>
Sodium (calc)	80727	3510	71251
Calcium	3800	190	3354
Magnesium	1380	115	1380
Iron (Fe++)	8.00	0.29	7.06
Iron (Fe+++)	24.00	0.86	21.18

<u>ANIONS</u>			
Chloride	135000	3803	119153
Sulfate	334	7	295
Bicarbonate	361	6	319
Phosphate	0.0		0.0

Total Dissolved Solids 221634 195617

Total Hardness as CaCO₃ 15250 13460

Calcium Carbonate Scale: PROBABLE

Calcium Sulfate Scale: REMOTE

Equivalent NaCl Concentration: 196260

Analyzed by: G. Benton

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