

Form 3160-3
(June 1993)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

N.M. Oil Cor - Division
811 S. 1st Street
Artesia, NM 88210-2834

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

015F

JUN 29 11 47 AM '96

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

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AUG 07 1996

OIL CON. DIV.

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

MEWBOURNE OIL COMPANY

3. Address and Telephone No.

P. O. BOX 5270, HOBBS, NM 88240 (505)-395-5905

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

2210' FEL & 660' FNL
SEC. 8 - T20S - R28E

5. Lease Designation and Serial No.

NM - 83584

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

FEDERAL "V" #2

9. API Well No.

30 - 015 - 26702

10. Field and Pool, or Exploratory Area

Old Millman Ranch Bone Springs

11. County or Parish, State

EDDY CO., 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.)

- 1) Producing formation: BONESPRING
- 2) Water production: 30 BW/Month
- 3) WATER analysis attached
- 4) Produced water hauled by Rowland Trucking, Inc.
- 5) The disposal well is SPRINGS SWD, SEC. 27 - T20S - R26E, Permit SWD - 86. Alternate is BKE SWD, Sec.13 - T22S - R37E, Permit SWD - 495. Both in Eddy Co., NM.
- 6) Water stored in fiberglass tank on lease.

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

Signed David R. Glass

Title Engineer

Date 7/26/96

(This space for Federal or State office use)

Approved by David R. Glass
Conditions of approval, if any:

Title

PETROLEUM ENGINEER

Date AUG 02 1996

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

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

*See Instruction on Reverse Side

Enviro-Chem, Inc.

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WATER ANALYSIS REPORT

SAMPLE

Oil Co. : Mewbourne Oil
 Lease : Federal V
 Well No. : # 2
 Salesman :

Sample Loc. :
 Date Analyzed: 23-July-1996
 Date Sampled : 12-July-1966

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ANALYSIS

1. pH 7.500
2. Specific Gravity 60/60 F. 1.138
3. CaCO₃ Saturation Index @ 80 F. +1.338
 @ 140 F. +2.448

Dissolved Gasses

MG/L EQ. WT. *MEQ/L

4. Hydrogen Sulfide Not Present
5. Carbon Dioxide Not Determined
6. Dissolved Oxygen Not Determined

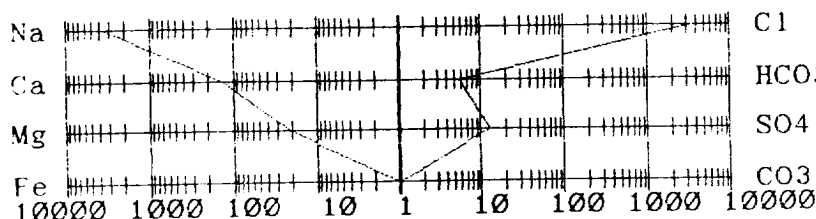
Cations

7. Calcium (Ca⁺⁺) 2,605 / 20.1 = 129.60
8. Magnesium (Mg⁺⁺) 243 / 12.2 = 19.92
9. Sodium (Na⁺) (Calculated) 78,003 / 23.0 = 3,391.43
10. Barium (Ba⁺⁺) Not Determined

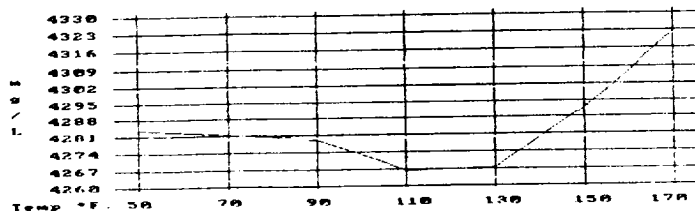
Anions

11. Hydroxyl (OH⁻) 0 / 17.0 = 0.00
12. Carbonate (CO₃⁼) 0 / 30.0 = 0.00
13. Bicarbonate (HCO₃⁻) 332 / 61.1 = 5.43
14. Sulfate (SO₄⁼) 600 / 48.8 = 12.30
15. Chloride (Cl⁻) 124,972 / 35.5 = 3,520.34
16. Total Dissolved Solids 206,755
17. Total Iron (Fe) 9 / 18.2 = 0.47
18. Total Hardness As CaCO₃ 7,507
19. Resistivity @ 75 F. (Calculated) 0.001 / cm.

LOGARITHMIC WATER PATTERN *meq/L.



Calcium Sulfate Solubility Profile



PROBABLE MINERAL COMPOSITION COMPOUND EQ. WT. X *meq/L = mg/L.

Cl	Ca(HCO ₃) ₂	81.04	5.43	440
HCO ₃	CaSO ₄	68.07	12.30	837
SO ₄	CaCl ₂	55.50	111.87	6,209
CO ₃	Mg(HCO ₃) ₂	73.17	0.00	0
	MgSO ₄	60.19	0.00	0
	MgCl ₂	47.62	19.92	948
	NaHCO ₃	84.00	0.00	0
	NaSO ₄	71.03	0.00	0
	NaCl	58.46	3,388.55	198,094

*Milli Equivalents per Liter

This water is mildly corrosive due to the pH observed on analysis.
 The corrosivity is increased by the content of mineral salts in solution.