

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
N.M. OIL CONS. COMMISSION
P.O. BOX 1980
HOBBS, NEW MEXICO 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 zone.
Use "APPLICATION FOR PERMIT—" for such proposals.

SUBMIT IN TRIPLICATE

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Designation and Serial No. NMO1917
2. Name of Operator MARKS & GARNER PRODUCTION COMPANY		6. If Indian, Allottee or Tribe Name
3. Address and Telephone No. POB 70 LOVINGTON NM 88260 505 396 5326		7. If Unit or CA, Agreement Designation
4. Location of Well (Feetage, Sec., T., R., M., or Survey Description) UNIT J SEC11-T24S-R32E		8. Well Name and No. HANAGAN D #2
		9. API Well No. 30-025-08141
		10. Field and Pool, or Exploratory Area DOUBLE X DELAWARE
		11. County or Parish, State LEA COUNTY NM

12. CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
☐ Notice of Intent	☐ Abandonment	☐ Change of Plans
☐ Subsequent Report	☐ Resumption	☐ New Construction
☐ Final Abandonment Notice	☐ Plugging Back	☐ Non-Routine Fracturing
	☐ Casing Repair	☐ Water Shut-Off
	☐ Altering Casing	☐ Conversion to Injection
	☐ Other	☒ Dispose Water

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.)

DELAWARE PRODUCING ZONE
2 BPD WATER
WATER ANALYSIS ATTACHED
WATER IS PUMPED DOWN PIPELINE
WATER IS DISPOSED OF IN MARKS & GARNER PROD CO US SMELTING #5
SWDW SEC22-T24S-R32E



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

Signed Joe G. Lara Title PARTNER Date 7-10-94

(This space for Federal or State official use)
(ORIG. SGD.) JOE G. LARA Petroleum Engineer Date 8/8/94

Approved by _____ Title _____ Date _____
Conditions of approval, if any: See attached



Water Analysis Report

Analysis Number : 000002850

Company.....: **Marks & Garner**
Location.....:
Field.....:
Lease.....: **Hanagan D**
Sample Source....: **Well Head**

Date of Sampling.....: **06/08/94**
Date of Analysis.....: **06/07/94**
Baker Representative.: **Don Blackstock**
Well#.....:
Analysis by.....: **Williams**

DISSOLVED SOLIDS

CATIONS:

	mg/l	me/l
Ca++	27200.00	1360.00
Mg++	2440.00	200.00
Fe+++	10.00	0.54
Ba++	0.00	0.00
Na+	37551.87	1632.69
Mn++	0.00	0.00

ANIONS:

Cl-	113000.00	3183.10
SO4--	390.00	8.13
HCO3-	122.00	2.00
CO3--	0.00	0.00
OH-	0.00	0.00
S-	0.00	0.00

TOTAL HARDNESS.....: 1560.00
TOTAL SOLIDS (quantitative).....: 180713.90
RESIDUAL HYDROCARBONS(ppm).....: 0.00

⊖ = not determined

DISSOLVED GASES

Hydrogen Sulfide, H2S.....:	0.0
Carbon Dioxide, CO2.....:	79.2
Oxygen, O2.....:	0.0

PHYSICAL PROPERTIES

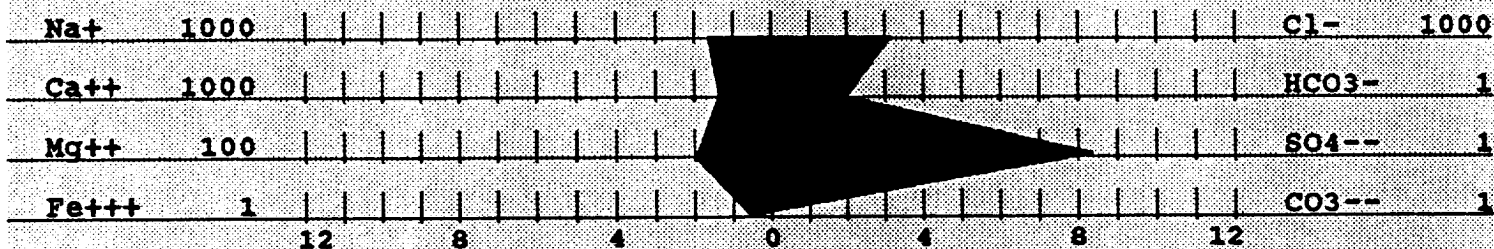
pH.....:	5.6
Specific Gravity.....:	1.140
TDS (calculated) ppm.....:	180713.9
TIS (calculated):	4.0

SCALE STABILITIES

Temp.	°C	°F	CaCO3	CaSO4	BaSO4
	20	68	-2.44	703	3
	30	86	-2.46	774	3
	40	104	-2.32	975	3
Max entity, (calculated):			584		0

WATER ANALYSIS PATTERN

(number beside ion symbol indicates me/l scale unit)



NOTES:



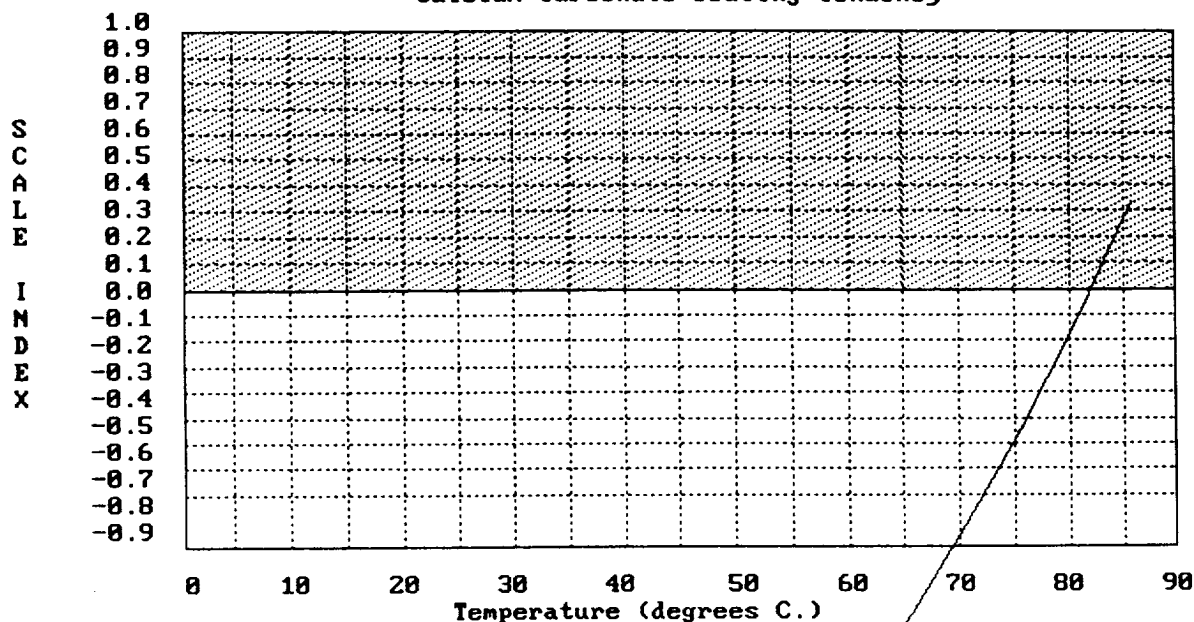
Water Analysis Report

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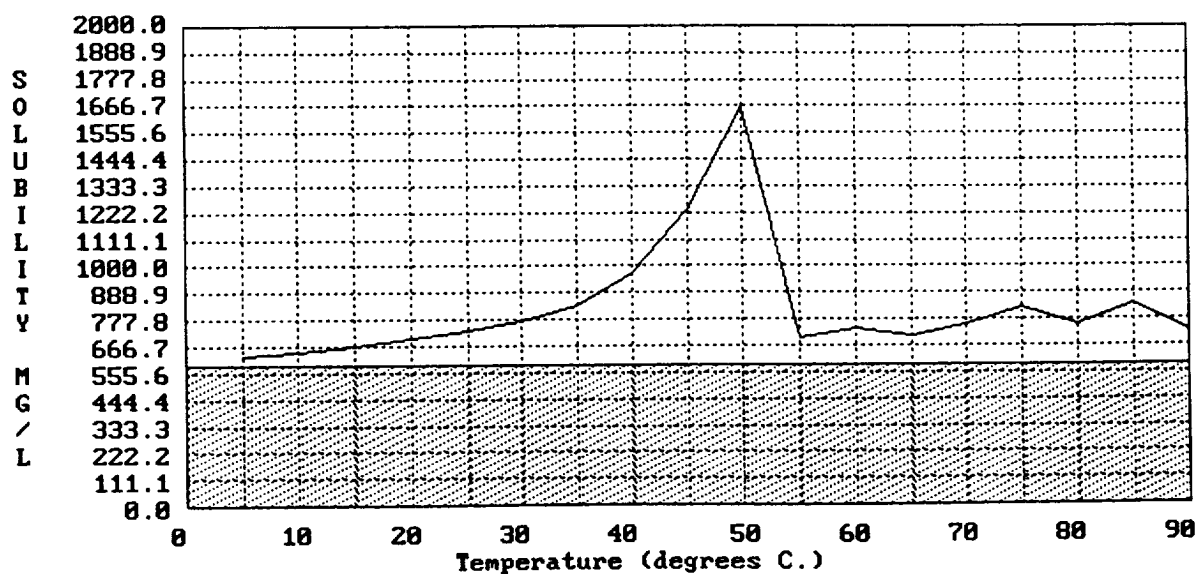
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Calcium Carbonate Scaling Tendency



Calcium Sulfate Solubility



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, 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.