

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**

N.M. Oil Cons. Division

1625 N. French Dr.

Hobbs, NM 88240

Le-0032579E

NM-90799

Do not use this form for proposals to drill or to deepen or reentry to a different hole than the one shown on the lease.

Use "APPLICATION FOR PERMIT-" for such proposals

**SUBMIT IN TRIPLICATE**

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

2. Name of Operator  
Gruy Petroleum Management Co.

3. Address and Telephone No.

P.O. Box 140907 Irving Texas 75014-0907

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

990' FSL & 1650' FEL  
Sec. 26, T 25S, R 37E SW/SE

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Terra Carlson Federal B #1

9. API Well No.

30025-27192

10. Field and Pool, or Exploratory Area

11. County or Parish, State

Lea County

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 Redecompletion 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 wells directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

\*\*See attachments.

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

Signed

*David R. Glass*

Title District Superintendent

Date

(This space for Federal or State office use)

(ORIG. SGD.) DAVID R. GLASS

Approved by

Title

PETROLEUM ENGINEER

Date

FEB 04 2000

Conditions of approval, if any.

Title 18 U.S.C. 1001, 1003, 1004, 1005, 1006, 1007, 1008, 1009, 1010, 1011, 1012, 1013, 1014, 1015, 1016, 1017, 1018, 1019, 1020, 1021, 1022, 1023, 1024, 1025, 1026, 1027, 1028, 1029, 1030, 1031, 1032, 1033, 1034, 1035, 1036, 1037, 1038, 1039, 1040, 1041, 1042, 1043, 1044, 1045, 1046, 1047, 1048, 1049, 1050, 1051, 1052, 1053, 1054, 1055, 1056, 1057, 1058, 1059, 1060, 1061, 1062, 1063, 1064, 1065, 1066, 1067, 1068, 1069, 1070, 1071, 1072, 1073, 1074, 1075, 1076, 1077, 1078, 1079, 1080, 1081, 1082, 1083, 1084, 1085, 1086, 1087, 1088, 1089, 1090, 1091, 1092, 1093, 1094, 1095, 1096, 1097, 1098, 1099, 1100, 1101, 1102, 1103, 1104, 1105, 1106, 1107, 1108, 1109, 1110, 1111, 1112, 1113, 1114, 1115, 1116, 1117, 1118, 1119, 1120, 1121, 1122, 1123, 1124, 1125, 1126, 1127, 1128, 1129, 1130, 1131, 1132, 1133, 1134, 1135, 1136, 1137, 1138, 1139, 1140, 1141, 1142, 1143, 1144, 1145, 1146, 1147, 1148, 1149, 1150, 1151, 1152, 1153, 1154, 1155, 1156, 1157, 1158, 1159, 1160, 1161, 1162, 1163, 1164, 1165, 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1996, 1997, 1998, 1999, 2000

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

**Lease Name: Terra Carlson Federal #1 & B 1**  
**LC032579E**  
**SW/SE Sec. 26, T 25S, R 37E**  
**Gruy Petroleum Management Co.**

- 1.) Name(s) of formations(s) producing water on the lease.

7RV, Queen, Gray Burg.

- 2.) Amount of water produced from each formation in barrels per day.

- a.) Terra Carlson Federal B #1 - none  
b.) Terra Carlson Federal #1 - 3 Bbls (7RV)

- 3.) A water analysis of produced water from each zone showing at least the total dissolved solids, pH, and the concentrations of chlorides and sulfates.

See Attached.

- 4.) How water is stored on the lease.

Water is trucked out by Chaparral Service Inc.

- 5.) How is water moved to dispose facility?

Answer same as answer no. 4.

- 6.) Operator's name

Lease name or well name and number

Location by 1/4 1/4 section, township, and range of the disposal system.

The appropriate NMOCD permit number.

Gruy Petroleum Management Co.

Terra Carlson Federal B #1 (SW/SE Sec. 26, T 25S, R 37E).

Terra Carlson Federal #1 (NE/NW Sec. 26, T 25S, R 37E).

# CAPITAN CHEMICAL WATER ANALYSIS REPORT

Company : GRUY PETROLEUM MGMT.  
Lease Name : TERRA CARSON FEDERAL "B"  
Well Number : # 1  
Location :

Date Sampled : 1/12/00  
Capitan Rep. : JOE HUGHES  
Company Rep. :

## ANALYSIS

1. pH	7.79	
2. Specific Gravity @ 60/60 F.	1.069	
3. CaCO <sub>3</sub> Saturation Index @ 80 F.	+0.941	'Calcium Carbonate Scale Possible'
@ 140 F.	+1.871	'Calcium Carbonate Scale Possible'

## Dissolved Gasses

4. Hydrogen Sulfide	30	PPM
5. Carbon Dioxide	151	PPM
6. Dissolved Oxygen	Not Determined	

## Cations

	mg/L	/	Eq. Wt.	=	MEQ/L
7. Calcium (Ca <sup>++</sup> )	250	/	20.1	=	12.44
8. Magnesium (Mg <sup>++</sup> )	5,954	/	12.2	=	487.99
9. Sodium (Na <sup>+</sup> ) Calculated	20,764	/	23.0	=	902.79
10. Barium (Ba <sup>++</sup> )	Not Determined	/	68.7	=	0.00

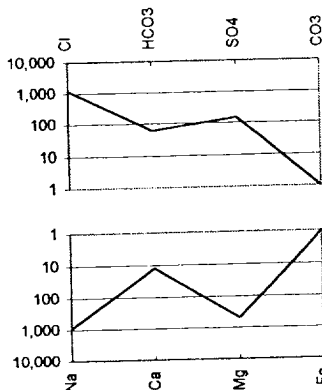
## Anions

11. Hydroxyl (OH <sup>-</sup> )	0	/	17.0	=	0.00
12. Carbonate (CO <sub>3</sub> <sup>=</sup> )	0	/	30.0	=	0.00
13. Bicarbonate (HCO <sub>3</sub> <sup>-</sup> )	3,636	/	61.1	=	59.50
14. Sulfate (SO <sub>4</sub> <sup>=</sup> )	7,151	/	48.8	=	146.54
15. Chloride (Cl <sup>-</sup> )	42,500	/	35.5	=	1,197.18

## Other

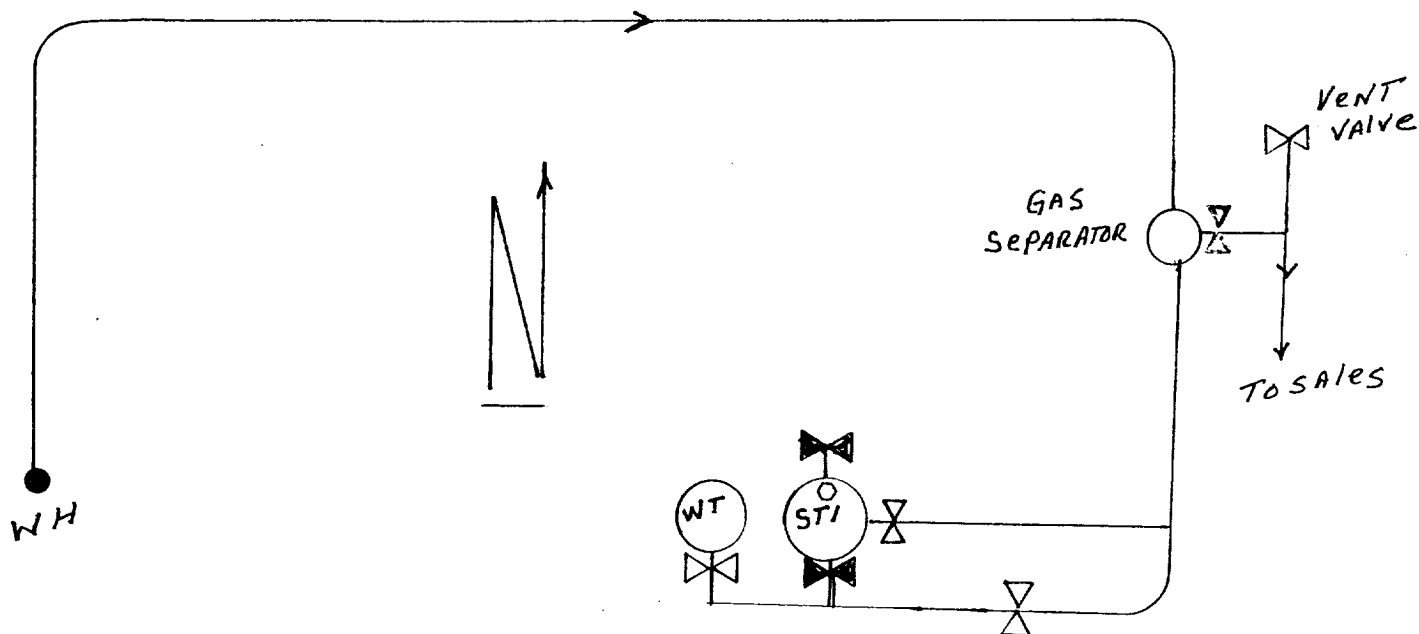
16. Soluble Iron (Fe)	4	/	18.2	=	0.22
17. Total Dissolved Solids	80,254				
18. Total Hardness As CaCO <sub>3</sub>	25,125				
19. Calcium Sulfate Solubility @ 90 F.	3,674				
20. Resistivity (Measured)	0.310	Ohm/Meters	@ 56	Degrees (F)	

Logarithmic Water Pattern



## PROBABLE MINERAL COMPOSITION

COMPOUND	Eq. Wt.	X	MEQ/L	=	mg/L
Ca(HCO <sub>3</sub> ) <sub>2</sub>	81.04	X	12.44	=	1,008
CaSO <sub>4</sub>	68.07	X	0.00	=	0
CaCl <sub>2</sub>	55.50	X	0.00	=	0
Mg(HCO <sub>3</sub> ) <sub>2</sub>	73.17	X	47.06	=	3,444
MgSO <sub>4</sub>	60.19	X	99.47	=	5,987
MgCl <sub>2</sub>	47.62	X	341.45	=	16,260
NaHCO <sub>3</sub>	84.00	X	0.00	=	0
NaSO <sub>4</sub>	71.03	X	47.06	=	3,343
NaCl	58.46	X	855.73	=	50,026



**PRODUCTION SYSTEM OPEN .**

1. Oil Sales by truck.
2. Seal Requirements.

**A. Production Phase:**

(1) Valves are sealed closed. 

**B. Sales Phase:**

(1) Same as Above

**Wells: Terra Carlson Federal B #1**