

*RAN MIT 6-1-94 on cy*



GIANT EXPLORATION &  
PRODUCTION COMPANY

2200 Bloomfield Highway  
Post Office Box 2810  
Farmington, New Mexico  
87499-2810

505                      FAX  
326-3325              505  
                             327-7987

August 27, 1993

Mr. Frank Chavez  
New Mexico Oil Conservation Division  
1000 Rio Brazos Road  
Aztec, New Mexico 87410

Subject: <sup>1980/S</sup> <sup>1980/W</sup> Carson Unit Well No. 23-13  
          <sup>K</sup> 1980' FSL, 1980' FWL  
          <sup>8</sup> Sec. 13, T25N, R12W  
          San Juan County, New Mexico

**RECEIVED**

AUG 31 1993

OIL CON. D.  
DIST. 3

Dear Mr. Chavez:

Enclosed for your information is our Application for  
Authorization to Inject for the above referenced well. The  
original Application has been sent to the New Mexico Oil  
Conservation Division in Santa Fe for approval.

Sincerely,

Diane G. Jaramillo  
Administrative Manager

/dgj

Enclosure

RECEIVED  
AUG 31 1993

OIL CON. DIV  
DIST. 3

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: ☒ Secondary Recovery ☐ Pressure Maintenance ☐ Disposal ☐ Storage  
Application qualifies for administrative approval? ☐ Yes ☐ No
- II. OPERATOR: Giant Exploration & Production Company  
ADDRESS: P.O. Box 2810, Farmington, New Mexico 87499  
CONTACT PARTY: Jeffrey R. Vaughn PHONE: (505) 326-3325
- III. WELL DATA: Complete the data required on the reverse side of this form for each well processed for injection. Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project: ☒ Yes ☐ No  
If yes, give the Division order number authorizing the project \_\_\_\_\_
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
  2. Whether the system is open or closed;
  3. Proposed average and maximum injection pressure;
  4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
  5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- \*VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- \* X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted.)
- \* XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- NAME: Jeffrey R. Vaughn TITLE: Vice President/Operations  
SIGNATURE: [Signature] DATE: August 10, 1993
- \* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstance of the earlier submittal. \_\_\_\_\_

Giant Exploration & Production Company  
Application for Authorization to Inject  
Form C-108 Supplemental Information

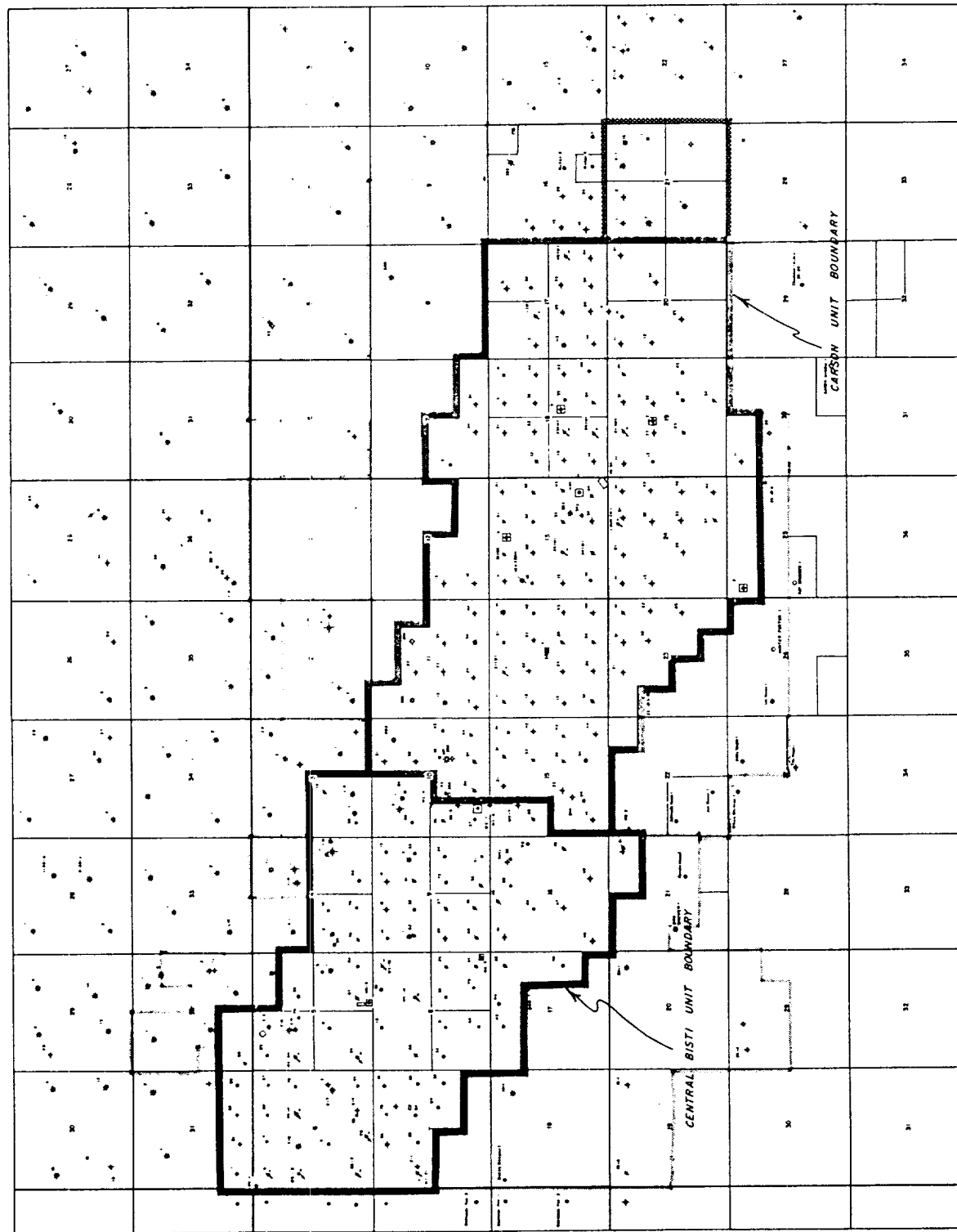
Carson Unit No. 23-13  
NE/4, SW/4, Sec. 13, T25N, R12W  
San Juan County, New Mexico

- I. Shown on Application
- II. Shown on Application
- III. Well data attached
- IV. Shown on Application
- V. Area of review is shown on attached map
- VI. Information for wells located in area of review are as follows:
  - Carson Unit No. 12-13
  - Carson Unit No. 13-13
  - Carson Unit No. 14-13
  - Carson Unit No. 21-13
  - Carson Unit No. 22-13
  - Carson Unit No. 24-13
  - Carson Unit No. 32-13
  - Carson Unit No. 33-13
  - Carson Unit No. 34-13
  - Carson Unit No. 43-14
- VII.
  - 1. Proposed average injection rate is 600 bwpd, expected maximum injection rate is 1200 bwpd.
  - 2. This system will be closed.
  - 3. Average injection pressures are expected to be in the 954 - 980 psi range. Maximum injection pressure will be 980 psi.
  - 4. Refer to the attached water analysis report. Since the formation water to be encountered is primarily previously injected water, no problems are expected in mixing the two waters.
  - 5. This well is part of an extensive waterflood project active in the Carson Unit since 1959. All produced water is reinjected into the oil productive Lower Gallup sand to maintain pressure. Injection into the Lower Gallup sand is for waterflooding, not disposal.

- VIII. The injection zone is the Lower Gallup sandstone. This zone is to be 29' in thickness with a top of 4871' as shown on the SP log previously submitted. No known sources of drinking water exist in this area. Water well drilling in this area has shown the Ojo Alamo to be dry.
- IX. The well will be acidized if required to maintain injection rate and pressure.
- X. Logs were previously submitted.
- XI. No known sources of drinking water exist in this area.
- XII. This well is part of the existing approved waterflood operation for the Carson Unit. It is not a disposal well.
- XIII. Proof of notification is attached.
- XIV. Certification shown on Application.

R 11 W

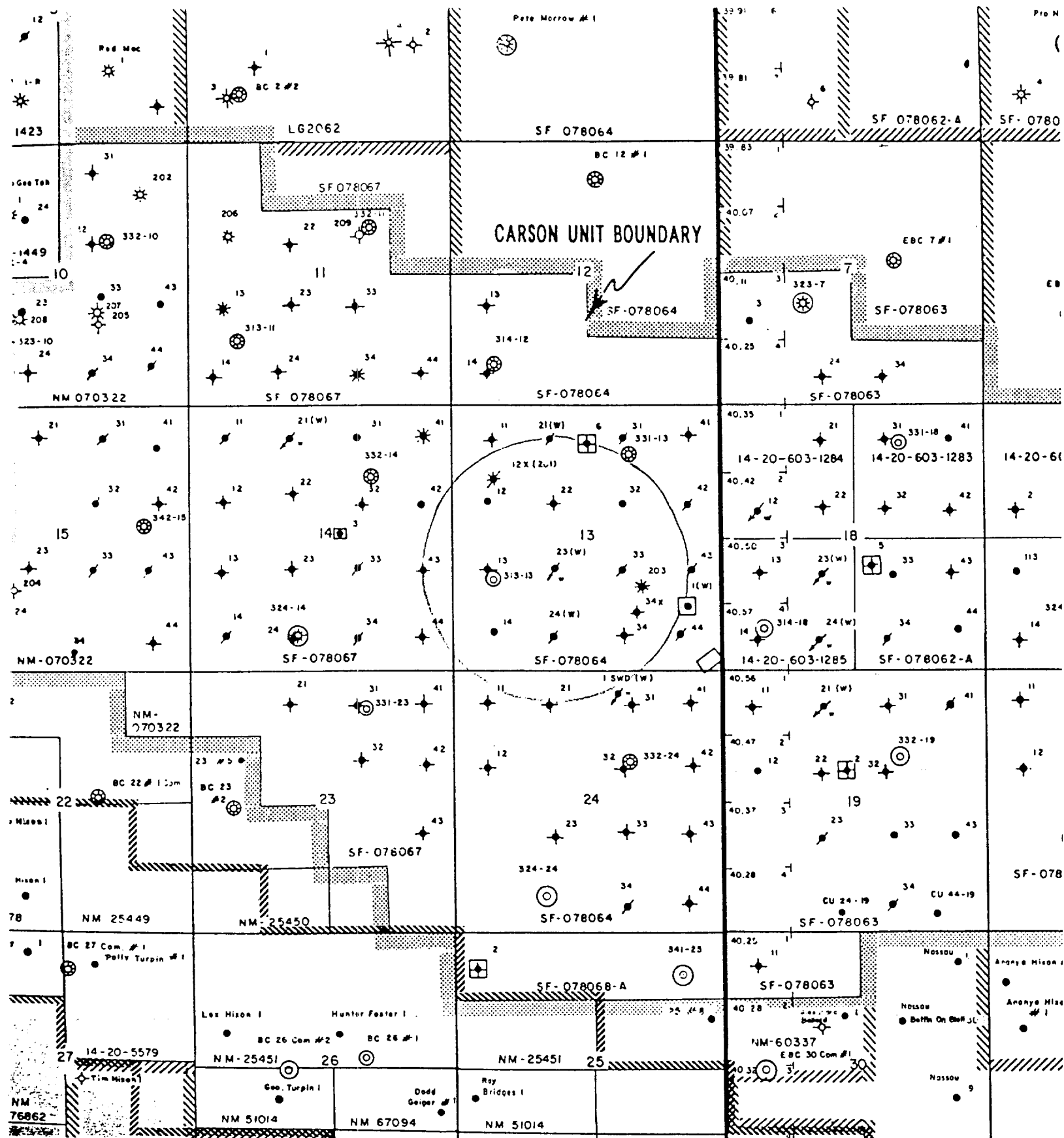
R 12 W



HIXON DEVELOPMENT COMPANY  
CENTRAL BISTI - CARSON UNIT AREA

San Juan County, New Mexico  
Scale 1" = 1 Mile  
Scale 1" = 100 Feet

REPRODUCED FROM THE ORIGINAL SURVEY MAP DATE JANUARY 1981



Giant Exploration & Production  
Company  
Well Bore Diagram

WELL NAME Carson Unit Well No. 23-13  
LOCATION 1980' FSL, 1980' FWL SECTION 13 T 25 N R 12 W  
COUNTY San Juan STATE New Mexico

**SURFACE CASING**

Hole Size: 12-1/4"  
Casing: 8-5/8", 24#, J-55  
Casing Set @ 101' with 100 sks  
cement containing 2% CaCl.

GLE 6391.2'

KBE 6399.9'

DF 6398.7'

**FORMATION TOPS**

Pictured Cliffs 1207'  
Lewis 1411'  
Cliffhouse 1585'  
Menefee 2073'  
Point Lookout 3684'  
Mancos 3862'  
Gallup 4775'

**WELL HISTORY**

Spud date: 1/31/58  
Original owner: Shell Oil Co.  
IP 2/24/58 BOPD 493 BWPD -  
MCFD 135 GOR 272  
Completion Treatment: \_\_\_\_\_  
Frac'd with 50,000 gal crude  
and 1 #/gal 20/40 mesh sand.

**CURRENT DATA**

Pumping Unit \_\_\_\_\_  
Tubing \_\_\_\_\_  
Pump Size \_\_\_\_\_  
Rod string \_\_\_\_\_  
Remarks \_\_\_\_\_

Proposed water injection  
schematic.

**CEMENT TOP** 4235' (Calc.)

**PERFORATIONS**

4871'-4900'

**PBD** 4904' (CIBP)

**PRODUCTION CASING**

Hole Size: 7-7/8"  
Casing: 4-1/2", 9.5#  
Casing Set @ 5010' with 150 sks  
cement containing 4% gel.

Packer  
@4770'

5010' TD

Date Last Revised: 8/18/93

WELL DATA SHEET

Well Name: Carson Unit #23-13

Legal Description: 1980' FSL, 1980' FWL  
Sec. 13, T25N, R12W  
San Juan County, N.M.

Well Type: Water Injection  
(Waiting on Approval)

Spud Date: 01-31-58

Surface Casing Hole Size: 12-1/4"  
Surface Casing Size: 8-5/8"  
Surface Casing Depth: 101'

Cementing Record: 100 sks.

Production Casing Hole Size: 7-7/8"  
Production Casing Size: 4-1/2"  
Production Casing Depth: 5010'

Cementing Record: 150 sks.

Perforation: 4871' - 4900'

Plug Back Depth: 4904'

Total Depth: 5010'



# WELL DATA SHEET

Well Name:	Carson Unit #12-13
Legal Description:	1980' FSL, 660' FWL Sec. 13, T25N, R12W San Juan County, N.M.
Well Type:	Oil Well
Spud Date:	01-15-58
Surface Casing Hole Size:	12-1/4"
Surface Casing Size:	8-5/8"
Surface Casing Depth:	100'
Cementing Record:	100 sks.
Production Casing Hole Size:	7-7/8"
Production Casing Size:	4-1/2"
Production Casing Depth:	5015'
Cementing Record:	150 sks.
Perforation:	4875' - 4900' 4909' - 4921' 4947' - 4952' 4957' - 4971' 4975' - 4992'
Plug Back Depth:	4975'
Total Depth:	5015'

Hixon Development Company,  
Well Bore Diagram

WELL NAME Carson Unit Well No. 13-13

LOCATION 1930' FSL, 660' FWL

SECTION 13 T 25 N R 12 W

COUNTY San Juan

STATE New Mexico

SURFACE CASING

Hole Size: \_\_\_\_\_

Casing: \_\_\_\_\_

Casing Set @ \_\_\_\_\_

FORMATION TOPS

Pictured Cliffs 1216'

Lewis 1434'

Cliff House 1580'

Allison-Menefee 2067'

Point Lookout 3692'

Mancos 3843'

Gallup 4771'

CEMENT TOP

PERFORATIONS

4866'-92'

4898'-4906'

4936'-40'

4949'-57'

4967'-75'

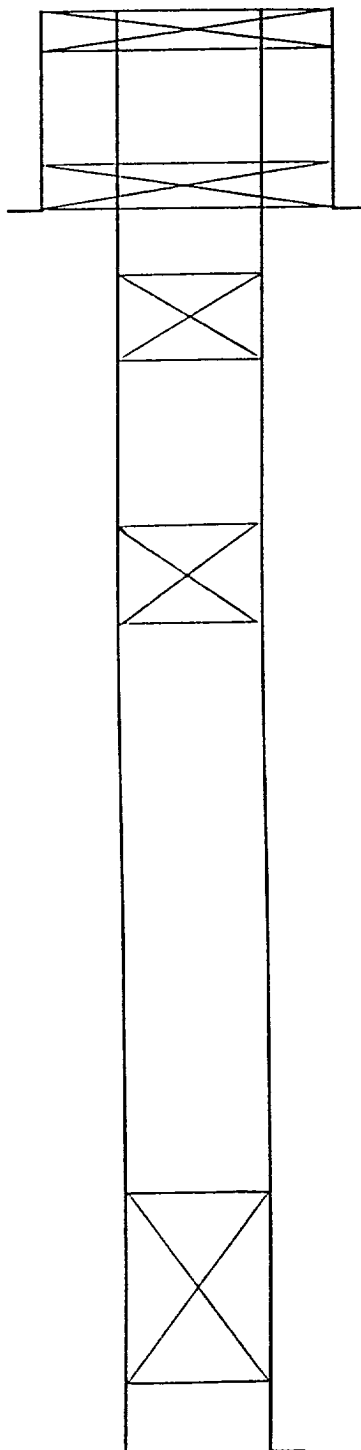
PBD

PRODUCTION CASING

Hole Size: \_\_\_\_\_

Casing: \_\_\_\_\_

Casing Set @ \_\_\_\_\_



GLE 6400'

KBE 6409.5'

DF 6408'

WELL HISTORY

Spud date: 8/25/59

Original owner: Shell Oil Co.

IP 9/12/59 BOPD 144 BWPD 0

MCFD 320 GOR 2220

Completion Treatment: \_\_\_\_\_

Fraced with 50,000 gal crude,  
1#/gal sand, 200 rubber balls

CURRENT DATA

Pumping Unit \_\_\_\_\_

Tubing \_\_\_\_\_

Pump Size \_\_\_\_\_

Rod string \_\_\_\_\_

Remarks \_\_\_\_\_

Plug and abandoned 9/3/77

10 sk cmt plug at surface

20 sk cmt plug set at 180'

35 sk cmt plug set at 350'

50 sk cmt plug set at 1220'

15 sk cmt plug set across  
perforations (4866'-4975')

TD

Date Last Revised: 1/31/90

WELL DATA SHEET

Well Name: Carson Unit #14-13

Legal Description: 660' FSL, 660' FWL  
Sec. 13, T25N, R12W  
San Juan County, N.M.

Well Type: Oil Well

Spud Date: 04-12-57

Surface Casing Hole Size: 12-1/4"  
Surface Casing Size: 8-5/8"  
Surface Casing Depth: 222'

Cementing Record: 130 sks.

Production Casing Hole Size: 7-7/8"  
Production Casing Size: 5-1/2"  
Production Casing Depth: 5040'

Cementing Record: 200 sks.

Perforation: 4876' - 4891'  
4943' - 4948'  
4954' - 4966'  
4972' - 4986'

Plug Back Depth: 5003'

Total Depth: 5040'

WELL DATA SHEET

Well Name: Carson Unit #21-13

Legal Description: 660' FNL, 1880' FWL  
Sec. 13, T25N, R12W  
San Juan County, N.M.

Well Type: Water Injection

Spud Date: 04-15-58

Surface Casing Hole Size: 12-1/4"  
Surface Casing Size: 8-5/8"  
Surface Casing Depth: 103'

Cementing Record: 100 sks.

Production Casing Hole Size: 7-7/8"  
Production Casing Size: 4-1/2"  
Production Casing Depth: 5007'

Cementing Record: 150 sks.

Perforation: 4860' - 4886'  
4890' - 4900'  
4940' - 4954'  
4958' - 4974'

Plug Back Depth: 5002'

Total Depth: 5010'

Hixon Development Company  
Well Bore Diagram

WELL NAME Carson Unit Well No. 22-13

LOCATION 1980' FNL, 1980 FWL

SECTION 13 T 25 N R 12 W

COUNTY San Juan

STATE New Mexico

SURFACE CASING

Hole Size: \_\_\_\_\_

Casing: \_\_\_\_\_

Casing Set @ \_\_\_\_\_

GLE 6375.6'

KBE 6384.8'

DF 6383.3'

FORMATION TOPS

Pictured Cliffs 1196'

Lewis 1394'

Cliff House 1553'

Allison-Menefee 2044'

Point Lookout 3680'

Mancos 3855'

Gallup 4767'

CEMENT TOP

PERFORATIONS

4864'-87'

4893'-4906'

4943'-53'

4962'-70'

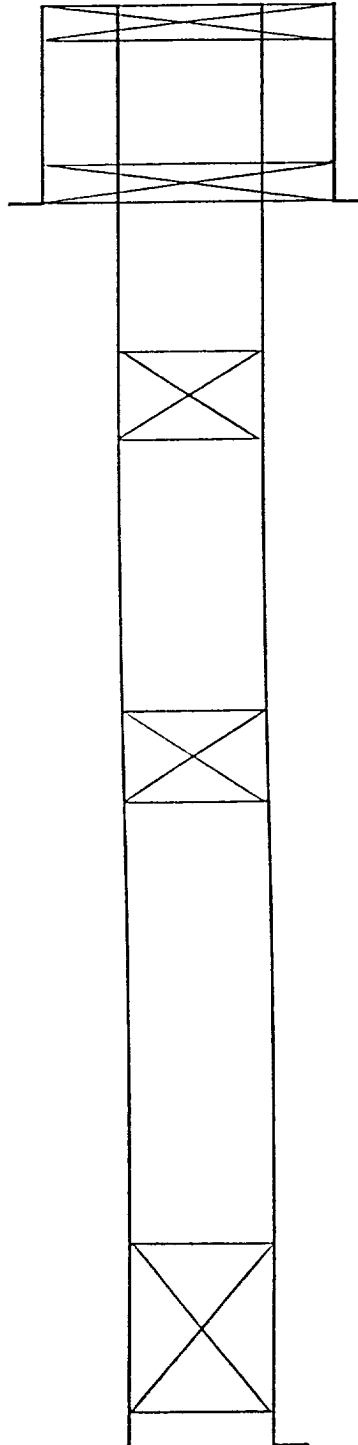
PBD

PRODUCTION CASING

Hole Size: \_\_\_\_\_

Casing: \_\_\_\_\_

Casing Set @ \_\_\_\_\_



WELL HISTORY

Spud date: 11/24/59

Original owner: Shell Oil Co.

IP 1/4/60 BOPD 30 BWPD 0

MCFD 48 GOR 1600

Completion Treatment: \_\_\_\_\_

Fraced with 50,000 gal crude  
1 lb/gal sand and 140 balls.

CURRENT DATA

Pumping Unit \_\_\_\_\_

Tubing \_\_\_\_\_

Pump Size \_\_\_\_\_

Rod string \_\_\_\_\_

Remarks \_\_\_\_\_

Plug and abandoned 3/25/75

10 sk cmt plug at surface

25 sk cmt plug set at 121'

35 sk cmt plug set at 295'

45 sk cmt plug set at 1375'

30 sk cmt plug set at 1824'

20 sk cmt plug set across  
perforations (4864'-4970')

Date Last Revised: 1/31/90

# WELL DATA SHEET

Well Name: Carson Unit #24-13

Legal Description: 660' FSL, 1980' FWL  
Sec. 13, T25N, R12W  
San Juan County, N.M.

Well Type: Water Injection

Spud Date: 12-01-59

Surface Casing Hole Size: 12-1/4"  
Surface Casing Size: 8-5/8"  
Surface Casing Depth: 111'

Cementing Record: 100 sks.

Production Casing Hole Size: 7-7/8"  
Production Casing Size: 4-1/2"  
Production Casing Depth: 5031'

Cementing Record: 150 sks.

Perforation: 4864' - 4888'  
4897' - 4905'  
4932' - 4938'  
4946' - 4958'  
4964' - 4978'

Plug Back Depth: 5031'

Total Depth: 5035'

WELL DATA SHEET

Well Name: Carson Unit #32-13

Legal Description: 1980' FNL, 1980' FEL  
Sec. 13, T25N, R12W  
San Juan County, N.M.

Well Type: Oil Well

Spud Date: 04-30-58

Surface Casing Hole Size: 12-1/4"  
Surface Casing Size: 8-5/8"  
Surface Casing Depth: 110'

Cementing Record: 100 sks.

Production Casing Hole Size: 7-7/8"  
Production Casing Size: 4-1/2"  
Production Casing Depth: 5006'

Cementing Record: 150 sks.

Perforation: 4877' - 4901'  
4905' - 4916'  
4956' - 4971'  
4974' - 4992'

Plug Back Depth: 5001'

Total Depth: 5010'

WELL DATA SHEET

Well Name:	Carson Unit #33-13
Legal Description:	1980' FSL, 1980' FEL Sec. 13, T25N, R12W San Juan County, N.M.
Well Type:	Water Injection Well (Waiting on Approval)
Spud Date:	07-03-59
Surface Casing Hole Size:	12-1/4"
Surface Casing Size:	8-5/8"
Surface Casing Depth:	104'
Cementing Record:	100 sks.
Production Casing Hole Size:	7-7/8"
Production Casing Size:	4-1/2"
Production Casing Depth:	5038'
Cementing Record:	150 sks.
Perforation:	4876' - 4898'
Plug Back Depth:	4904'
Total Depth:	5040'



Giant Exploration & Production  
Company  
Well Bore Diagram

WELL NAME Carson Unit Well No. 34-13  
LOCATION 660' FSL, 1976' FEL SECTION 13 T 25 N R 12 W  
COUNTY San Juan STATE New Mexico

**SURFACE CASING**

Hole Size: 12-1/4"  
Casing: 8-5/8", 24#, J-55  
Casing Set @ 218' with 130 sks  
cement containing 2% CaCl.

**FORMATION TOPS**

<u>Pictured Cliffs</u>	<u>1213'</u>
<u>Lewis</u>	<u>1417'</u>
<u>Cliffhouse</u>	<u>1590'</u>
<u>Menefee</u>	<u>2068'</u>
<u>Point Lookout</u>	<u>3693'</u>
<u>Mancos</u>	<u>3874'</u>
<u>Gallup</u>	<u>4778'</u>

**CEMENT TOP** 4100' (Calc.)

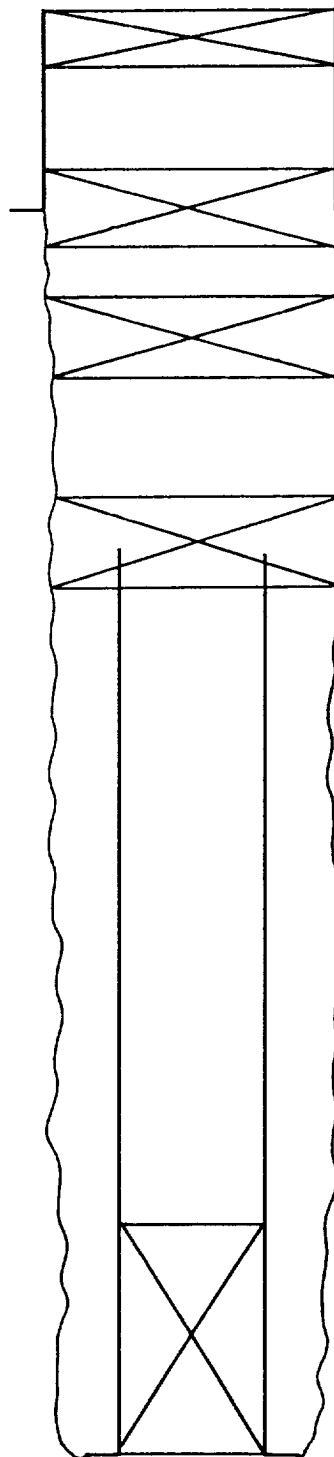
**PERFORATIONS**

4876'-4900'  
4908'-16'  
4944'-52'  
4958'-72'  
4976'-94'

**PBD** 5036'

**PRODUCTION CASING**

Hole Size: 7-7/8"  
Casing: 4-1/2", 9.5#  
Casing Set @ 5096' with 150 sks  
cement containing 4% gel.



GLE 6412.1'

KBE 6421.1'

DF 6420'

**WELL HISTORY**

Spud date: 5/13/57  
Original owner: Shell Oil Co.  
IP 2/13/58 BOPD 100 BWPD -  
MCFD 360 GOR 356  
Completion Treatment: 2 Stage frac w/72,000 gal oil  
and 1 #/gal 20/40 mesh sand.

**CURRENT DATA**

Pumping Unit \_\_\_\_\_  
Tubing \_\_\_\_\_  
Pump Size \_\_\_\_\_  
Rod string \_\_\_\_\_  
Remarks Well was P&A'd in 1977.  
Gallup perforations were  
plugged in 1975. Cement top  
in casing calculated at  
4585'.  
Casing shot off at 1180'  
50 sk plug set across casing  
stub, Pictured Cliffs, and  
Fruitland Coal.  
35 sk plug placed over Ojo  
Alamo.  
25 sk plug placed over surface  
casing shoe.  
10 sk plug set at surface.  
Date Last Revised: 8/9/93

5104' TD

Giant Exploration & Production  
Company  
Well Bore Diagram

WELL NAME Carson Unit Well No. 43-14  
LOCATION 1980' FSL, 660' FEL SECTION 14 T 25 N R 12 W  
COUNTY San Juan STATE New Mexico

**SURFACE CASING**

Hole Size: 12-1/4"  
Casing: 8-5/8", 24#, J-55  
Casing Set @ 103' with 100 sks  
cement containing 2% CaCl.

**FORMATION TOPS**

Pictured Cliffs 1248'  
Lewis 1419'  
Cliffhouse 1593'  
Menefee 2084'  
Point Lookout 3700'  
Mancos 3871'  
Gallup 4777'

**CEMENT TOP** 4025' (Calc.)

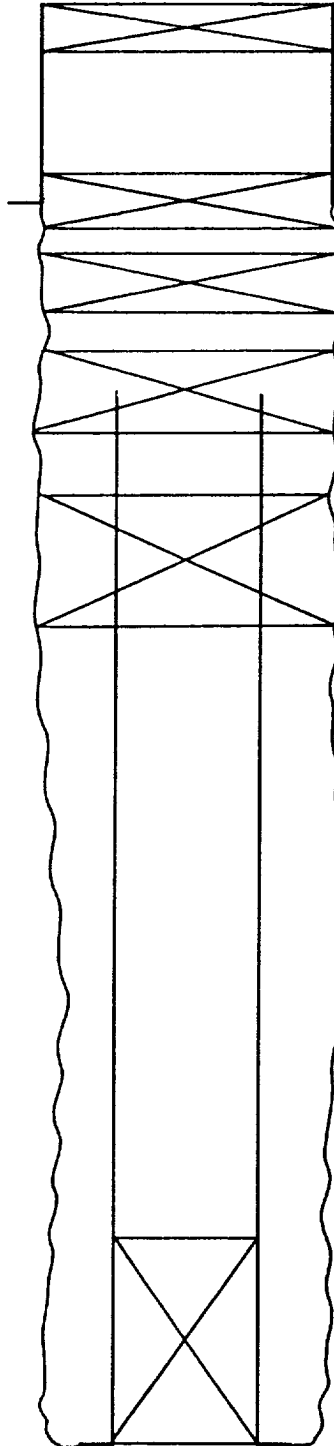
**PERFORATIONS**

4874'-99'  
4911'-16'  
4945'-68'  
4973'-89'

**PBD** \_\_\_\_\_

**PRODUCTION CASING**

Hole Size: 7-7/8"  
Casing: 4-1/2", 9.5#  
Casing Set @ 5023' with 150 sks  
cement containing 4% gel.



GLE 6406.55'

KBE 6416.10'

DF 6414.90'

**WELL HISTORY**

Spud date: 1/10/58  
Original owner: Shell Oil Co.  
IP 2/28/58 BOPD 120 BWPD -  
MCFD 72 GOR 600  
Completion Treatment: \_\_\_\_\_  
Frac w/50,000 gal crude and  
1 #/gal 20/40 mesh sand.

**CURRENT DATA**

Pumping Unit \_\_\_\_\_  
Tubing \_\_\_\_\_  
Pump Size \_\_\_\_\_  
Rod string \_\_\_\_\_  
Remarks \_\_\_\_\_  
Well was P&A'd in 1977.  
25 sk plug set across Gallup  
perfs. Backed tubing off  
at 1603' (anchor was stuck).  
Perf'd at 1220'. Spotted 50  
sk plug across Pictured  
Cliffs and Fruitland Coal.  
Shot casing off at 720'. Set  
35 sk plug across csg stub.  
35 sk plug placed over Ojo  
Alamo.  
25 sk plug placed over surface  
casing shoe.  
10 sk plug set at surface.  
Date Last Revised: 8/9/93

5025' TD

San. in testing lab. inc.

907 WEST APACHE

P O BOX 2079

FARMINGTON, NEW MEXICO

PHONE

327-4966

Date June 10, 1977

Report to Hixon Development Company  
Requested by A. Kuchera, Mgr. Sampled by Hixon Personnel  
Project CBU #5 Location NW NW Sec. 6, T25N, R12W  
Source of Material Lower Gallup Produced Water  
Lab No. 24509 Water Analysis for Petroleum Engineering

**TEST RESULTS**

**WATER ANALYSIS FOR PETROLEUM  
ENGINEERING**

Constituent		Constituents	Meg/L	ppm
Total Solids	2263 ppm	Cations	29.3	674
	7.25	Sodium	2.3	45
Resistivity	2.94 ohms/meter @70°F	Calcium	0.5	6
Conductivity	3,400 micromhos/cm @ 70°F	Magnesium	neg.	3
		Iron	0	0
		Barium		
Comments		Anions		
Essentially this is a 0.2% sodium sulfate solution.		Chloride	4.1	145
		Bicarbonate	4.0	244
		Carbonate	0	0
		Hydroxide	0	0
		Sulfate	24.0	1150

Copies to Hixon Development Co. (3)  
P.O. Box 2810  
Farmington, New Mexico 87401

Certified by:



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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 Water Injection Well

2. Name of Operator  
Giant Exploration & Production Company

3. Address and Telephone No.  
P.O. Box 2810, Farmington, New Mexico 87499 (505)326-3325

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
1980' FSL, 1980' FWL, Sec. 13, T25N, R12W

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

(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 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.)\*

The subject well was converted to injection as follows:

- 1) Tripped in the hole with overshot and 2-3/8" tubing.
- 2) Latched onto fish. Pulled free. Tripped out of the hole with tubing and old packer.
- 3) Cleaned out fill to 4901'. Isolated leaking casing interval from 1952'-3713'.
- 4) Acidized existing perforations (4871'-4900') with 1000 gal 15% HCl.
- 5) Installed injection packer with pump out plug at 4787'.
- 6) Installed 3-1/2", 8.81# liner with isolating packers. Top packer at 1831'. Bottom packer at 3796'.  
Tested injection packer and isolating packers. Held.
- 7) Tripped in the hole with 1-1/2" internal plastic coated tubing. Filled casing with packer fluid.  
Pumped out plug.
- 8) Released packer. Spaced out tubing. Reset packer at 4813'.
- 9) Performed mechanical integrity test. Tested to 300 psi for 30 min. Held. Denny Fouse  
of NMOCD witnessed test.

14. I hereby

Signed

Jeffrey R. Vaughan

Title Vice President Operations

Date JAN 06 1994

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

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

RECEIVED

JAN 11 1994

OIL CON. DIV.  
DIST. 3

NMOCD

ACCEPTED FOR RECORD

JAN 11 1994

FARMINGTON DISTRICT OFFICE

7Y