

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE\*  
(Other instructions on re-  
verse side)Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

NM 070322

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1.

OIL ☒ GAS ☐  
WELL WE'L WELL OTHER

2. NAME OF OPERATOR

Hixon Development Company

3. ADDRESS OF OPERATOR

P.O. Box 2810, Farmington, New Mexico 87499

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*

See also space 17 below.)  
At surface

530' FSL, 1979' FWL, Section 10, T25N, R12W

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

6219' DF

7. UNIT AGREEMENT NAME

Carson Unit

8. FARM OR LEASE NAME

9. WELL NO.

24-10

10. FIELD AND POOL, OR WILDCAT

Bisti Lower Gallup

11. SEC., T., R., M., OR BLK. AND  
SURVEY OR AREA

Section 10, T25N, R12W

12. COUNTY OR PARISH 13. STATE

San Juan

NM

## 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON\*

REPAIR WELL

CHANGE PLANS

(Other) Convert to Water Injection

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT\*

(Other)

(NOTE: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

17. 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.)\*

Well perforations 4742'-63', 4775'-88', 4817'-28' and 4833'-48' will be squeezed with 150 sacks cement. Well will be cleaned out to 4770'. The casing will be tested and repaired if required. The interval 4742'-63' reperforated with 42 0.41" holes. The perfs will be acidized with 1000 gallons 15% HCl acid and well placed on water injection.

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

SIGNED

Petroroleum Engineer

DATE 12/9/82

(This space for Federal or State license)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL IF ANY:

DEC 15 1982

JAMES F. SIMS

DISTRICT ENGINEER See Instructions on Reverse Side

NMOCO

WELL NAME Carson Unit Well No. 24-10

LOCATION 530' FSL, 1979' FWL SECTION 10 T 25N R 12W

CURRENT STATUS: \_\_\_\_\_

GLE 6210.6'

RBM 6219.4'

DF 6218.2'

KB 8.8'

**SURFACE CASING**

Hole size: 12-1/4"

Casing: 119' 8-5/8" 24# J-55

Casing set @ 129' with 100 sx  
containing 2% CaCl

\_\_\_\_\_ Packer corrosion fluid

\_\_\_\_\_ 2-3/8" EVE 8rd 4.7# J-55

**FORMATION TOPS**

Fruitland \_\_\_\_\_

Pictured Cliffs 1185'

Lewis 1270'

Cliffhouse 1447'

Menefee 1948'

Point Lookout 3559'

Mancos 3731'

Upper Gallup 4640'

Lower Gallup 4728'

**CEMENT TOP** 3877' (calculated) ☒ ☒ 4600'

**PERFORATIONS** 4742'-4763' ☐ 4742'-63'

squeezed { 4775'-4788'  
4817'-4828'  
4833'-4848'

PBD 4852'  
☐ 4770'  
☒ 4775'-88'  
☐ 4817'-4828'  
☐ 4833'-4848'

**PRODUCTION CASING**

Hole size: 7-7/8"

Casing: 4869' 4-1/2" 9.5# J-55

Casing set @ 4877' with 150 sx  
containing 4% gel

TD 4880'

**WELL HISTORY**

Spud date: 11/25/57

Original owner: Shell

IP \_\_\_\_\_ BOPD 503 BWPD 1

GOR 334

Completion treatment: 50,000# 20-40  
with 50,000 gallons oil

**CURRENT DATA**

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

Tubing \_\_\_\_\_

Pump size \_\_\_\_\_

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

Remarks \_\_\_\_\_

Hixon Development Company  
Carson Unit Well No. 24-10  
Supplemental Information

1. Name - CU Well No. 24-10. Federal Minerals. Unit area. Refer to attached sundry notice.
2. There will be 600 BWPD of water injected into the Lower Gallup perforations 4742'-63'. Source of water is recycled Lower Gallup injection water. Water analysis is attached.
3. Water will be injected into the Unitized Lower Gallup sand. Because of declining bottom hole pressure in this Unit area the well will be converted to pressure maintenance. It is to be used for secondary recovery operations and not waste water disposal. The Lower Gallup sand is isolated by impermeable Mancos shale above and below. Injection water is confined to the Lower Gallup sand. Calculated cement top is 3877'.
4. The injection Lower Gallup interval has oil, gas and previously injected water. The injected fluid is not reactive with the Lower Gallup sand.
5. Usable water in this wellbore is to the base of the Ojo Alamo about 50'. Attempts to drill a fresh water utility well in this area have proved the Ojo Alamo to be dry.
6. Refer to the attached wellbore diagram.
7. Refer to the attached wellbore diagram.
8. Refer to sundry notice and wellbore diagram. Anticipated injection pressure is 600 to 1000 psi. An amine-oxygen scavenger packer fluid will be placed in the tubing casing annulus above the packer to surface. Injection pressures will be held to less than fracture pressure.
9. The system will be monitored with injection meters and pressure limit switches, taking of tubing and casing pressures, tracer surveys if required.

# san juan testing laboratory, 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

Total Solids 2263 ppm  
pH 7.25  
Resistivity 2.94 ohms/meter @70°F  
Conductivity 3,400 micromhos/cm @ 70°F

#### Constituents

<u>Cations</u>	<u>Meg/L</u>	<u>ppm</u>
Sodium	29.3	674
Calcium	2.3	45
Magnesium	0.5	6
Iron	neg.	3
Barium	0	0

#### Comments

Essentially this is a 0.2% sodium sulfate solution.

#### Anions

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

TEST NO. 22096

Certified by:

