Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

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 WELL [X] GAS 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
790' FNL, 1980' FEL, Section 15, T25N, R12W

5. LEASE DESIGNATION AND SERIAL NO.
NM 070322

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Carson Unit

8. FARM OR LEASE NAME

9. WELL NO.
31

10. FIELD AND POOL, OR WILDCAT
Bisti Lower Gallup

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 15, T25N, R12W

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
6222' KB

12. COUNTY OR PARISH
San Juan

13. STATE
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			[X]

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 4726'-44', 4802'-14' and 4819'-30' will be squeezed with 150 sacks cement. Well will be cleaned out to 4880'. The casing will be tested and repaired if required. The interval 4726'-44' re-perforated with 36 0.41" holes. The perfs will be acidized with 1000 gallons 15% HCl acid and well placed on injection.

RECEIVED
JAN 11 1983
OIL CON. DIV.
DIST. 3

Subject to approval of NMOCD

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

SIGNED [signature] TITLE Petroleum Engineer DATE 12/9/82

(This space for Federal or State office use)

APPROVED BY ______ TITLE ______ DATE ______

CONDITIONS OF APPROVAL, IF ANY:

Does not have approval to inject

APPROVED

*See Instructions on Reverse Side

NMOCC

WELL NAME Carson Unit Well No. 31-15

LOCATION 790' FNL, 1980' FEL **SECTION** 15 **T** 25N **R** 12W

CURRENT STATUS:

GLE 6213.5'

RBM 6222.0'

DF 6220.8'

KB 8.5'

SURFACE CASING

Hole size: 12-1/4"

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

Casing set @ 94' with 94 sacks containing 2% CaCl

FORMATION TOPS

Fruitland	
Pictured Cliffs	1040'
Lewis	1263'
Cliffhouse	1447'
Menefee	1946'
Point Lookout	3545'
Mancos	3712'
Upper Gallup	4623'
Lower Gallup	4713'

CEMENT TOP 3848' (calculated)

PERFORATIONS

4726'-44'
4802'-14'
4819'-30'

PBD

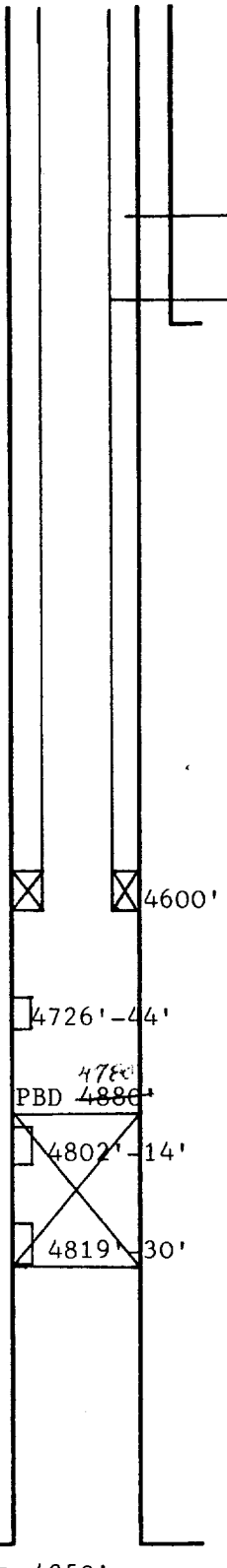
PRODUCTION CASING

Hole size: 7-7/8"

Casing: 4-1/2" 9.5#

Casing set @ 4848' w/ 150 sx containing 4% gel

TD 4850'



WELL HISTORY

Spud date: 8/19/57

Original owner: Shell

IP **BOPD** 176 **BWPD** 0

GOR

Completion treatment:

CURRENT DATA

Pumping Unit

Tubing

Pump size

Rod string

Remarks

Hixon Development Company
Carson Unit Well No. 31-15
Supplemental Information

1. Name - CU Well No. 31-15. Federal Minerals. Unit area. Refer to attached sundry notice.

2. There will be 600 BWPD of water injected into the Lower Gallup perforations 4726'-44'. 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 3848'.

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 20'. 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 scavanger 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

Comments

Essentially this is a 0.2% sodium sulfate solution.

Constituents		
Cations	**Meg/L**	**ppm**
Sodium	29.3	674
Calcium	2.3	45
Magnesium	0.5	6
Iron	neg.	3
Barium	0	0
Anions		
Chloride	4.1	145
Bicarbonate	4.0	244
Carbonate	0	0
Hydroxide	0	0
Sulfate	24.0	1150

LAWRENCE A. BREWER REGISTERED PROFESSIONAL ENGINEER AND LAND SURVEYOR 3122 STATE OF NEW MEXICO

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

Certified by:

TEST NO. 22096

Form 360-7