

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.
14-20-603-323

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

Central Bisti Lower Gallup Unit

8. FARM OR LEASE NAME

9. WELL NO.

CBU WELL NO. 57

10. FIELD AND POOL, OR WILDCAT

Bisti Lower Gallup

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

Section 5, T25N, R12W

12. COUNTY OR PARISH 13. STATE

San Juan New Mexico

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 ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR

Hixon Development Company

3. ADDRESS OF OPERATOR

P.O. Box 2810, Farmington, New Mexico 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface

660' FSL, 1980' FEL, Section 5, T25N, R12W

14. PERMIT NO.

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

6190'

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other) Convert to Water Injection

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

X

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(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.)*

It is proposed to convert this former Lower Gallup sand oil well (presently a pictured Cliffs gas recompletion) to water injection. The perforations 1082'-98' will be squeezed with 50 sacks cement. The well will be cleaned out to 4820' and the interval 4780'-4800' reperforated with 40 0.41" holes. A packer will be set on tubing above the injection interval, the perfs stimulated with 1000 gallons 15% HCl acid and the well placed on injection. The casing will be tested and repaired if required prior to injection. Well name will be changed to WI-57. Please find supplemental information attached.

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

SIGNED

TITLE Petroleum Engineer

DATE 11/16/82

(This space for Federal or State office use)

APPROVED
CONDITIONS OF APPROVAL, IF ANY

TITLE

DATE

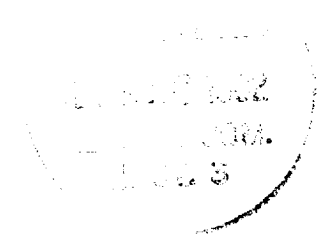
DEC 1 1982
JAMES F. SIMS
DISTRICT ENGINEER

*See Instructions on Reverse Side

NMOCC

Hixon Development Company
Central Bisti Lower Gallup Unit Well No. 57
Supplemental Information

1. Name - CBU Well No. 57. (Well name to be changed to WI-57). Federal Minerals. Unit area. Refer to attached sundry notice.
2. There will be 600 BWPD of water injected into the Lower Gallup perforations 4780'-4800'. Source of water is recycled Lower Gallup injection water. Water analysis is attached.
3. Water will be injected into the Unitized Lower Gallup sand. This well was shut in as a non-commercial Pictured Cliffs recompletion in November 1979. 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. Cement top is 3410' by temperature survey.
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 100'. 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 is and will be monitored with continuous recording pressure charts and rate meters, taking of tubing and casing pressures, tracer surveys if required.



WELL NAME CBU WELL NO. 57

LOCATION 660' FSL, 1980' FEL SECTION 5 T 25N R 12W

CURRENT STATUS: Shut In

GLE 6179'

RBM 6190'

DF 6188'

2-3/8" 4.7# EUE 8rd J-55 Tubing

Packer Corrosion Fluid

SURFACE CASING

Hole size: 12-1/4"

Casing: 8-5/8" 24# 8rd

Casing set @ 305' w/150 sx

FORMATION TOPS

Fruitland

Pictured Cliffs 1142'

Lewis

Cliffhouse 2916'

Menefee 2990'

Point Lookout 2990'

L. Point Lookout 3604'

Upper Gallup 4679'

Lower Gallup 4768'

CEMENT TOP 3410' (temp survey)

PERFORATIONS 4780'-4800

1172'-74', 1082'-98' (squeezed)

4846'-54', 4861'-72' (squeezed)

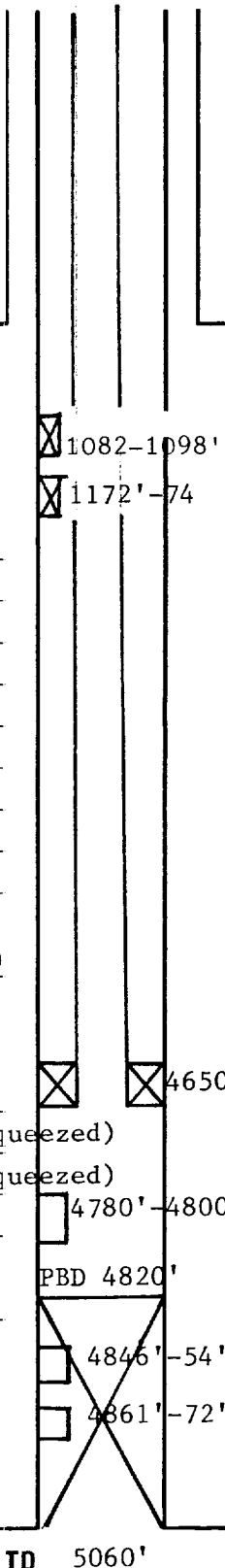
PBD

PRODUCTION CASING

Hole size: 7-7/8"

Casing: 5-1/2" 15.5# 8rd

Casing set @ 5060' w/400 sx



WELL HISTORY

Spud date: 7/29/56

Original owner: Amerada

IP 759 BOPD BWPD

GOR

Completion treatment:

CURRENT DATA

Pumping Unit

Tubing

Pump size

Rod string

Remarks

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

Lob 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

| | Meg/L | ppm |
|----------------|-------|-----|
| <u>Cations</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:

