

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.

SF078056

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Central Bisti Lower Gallup

8. FARM OR LEASE NAME Unit

9. WELL NO.

Federal "C" No. 2

10. FIELD AND POOL, OR WILDCAT

Bisti Lower Gallup

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

Section 7, T25N, R12W

12. COUNTY OR PARISH 13. STATE

San Juan

NM

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to another reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)1. OIL ☐ GAS ☒ OTHER ☐
WELL WELL2. NAME OF OPERATOR
Hixon Development Company3. ADDRESS OF OPERATOR
P.O. Box 2810, Farmington, New Mexico4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface

1980' FNL, 660' FWL, Section 7, T25N, R12W

14. PERMIT NO.

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

6290' GLE

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 ☐

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 perti-
nent 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
1340'-47' will be squeezed with 50 sacks cement. The well will be cleaned
out to 4900' and the interval 4880'-86' reperforated with 24 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-21. Please find supplemental information
attached.

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

SIGNED

TITLE Petroleum Engineer

DATE 11/15/82

(This space for Federal or State office use)

APPROVED BY
CONDITIONS OF

TITLE

DATE

APPROVAL IF ANY:

DEC 13 1982
JAMES F. SIMS
DISTRICT ENGINEER

*See Instructions on Reverse Side

NMOCCT

Hixon Development Company
Central Bisti Lower Gallup Unit Federal "C" Well No. 2
Supplemental Information

1. Name - CBU Federal "C" Well No. 2. (Well name to be changed to WI-21). Federal Minerals. Unit area. Refer to attached sundry notice.
2. There will be 600 BWPD of water injected into the Lower Gallup perforations 4880'-86'. 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 October 1975. 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 3900' 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 130'. 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 Federal "C" No. 2

LOCATION 1980' FNL, 660' FWL SECTION 7 T 25N R 12W

CURRENT STATUS: _____

GLE 6290'

RBM _____

DF 6302'

SURFACE CASING

Hole size: 12-1/4"

Casing: 8-5/8"

Casing set @ 294' w/ 175 sacks

FORMATION TOPS

Fruitland 1197'

Pictured Cliffs 1243'

Lewis _____

Cliffhouse _____

Menefee _____

Point Lookout _____

Mancos _____

Upper Gallup _____

Lower Gallup _____

CEMENT TOP 3900' temp. survey

PERFORATIONS 4880'-86'

4919'-25' } Plugged back
4938'-44' }

1362' & 1340'-47' (squeezed)

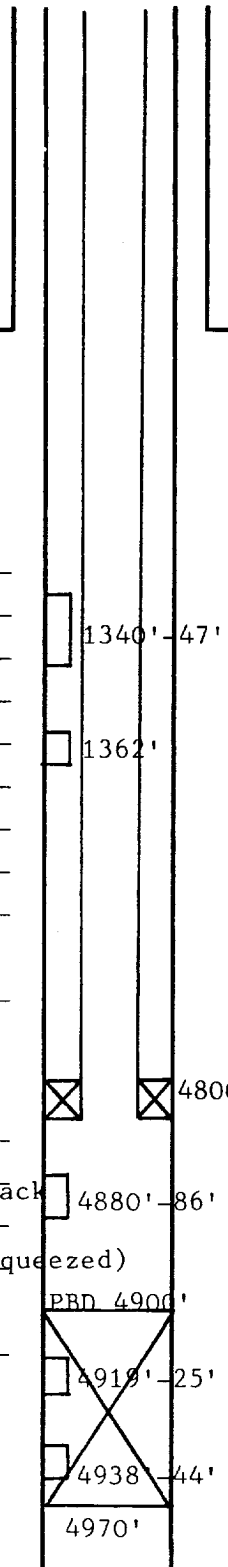
PBD 5012'

PRODUCTION CASING

Hole size: 7-7/8"

Casing: 5-1/2"

Casing set @ 5049' (200 sx Pozmix)



WELL HISTORY

Spud date: 6-11-58

Original owner: _____

IP 172 BOPD _____ BWPD _____

GOR _____

Completion treatment: 37,500# sand

CURRENT DATA

Pumping Unit _____

Tubing _____

Pump size _____

Rod string _____

Remarks _____

TD 5050'

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

<u>Constituent</u>		<u>Constituents</u>		
Total Solids	2263 ppm	<u>Cations</u>	<u>Meg/L</u>	<u>ppm</u>
pH	7.25	Sodium	29.3	674
Resistivity	2.94 ohms/meter @70°F	Calcium	2.3	45
Conductivity	3,400 micromhos/cm @ 70°F	Magnesium	0.5	6
		Iron	neg.	3
		Barium	0	0
<u>Comments</u>		<u>Anions</u>		
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

TEST NO. 22096

Certified by:

