Form approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

5. LEASE DESIGNATION AND SERIAL NO.: SF078056

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 WELL XX GAS WELL ☐ OTHER

7. UNIT AGREEMENT NAME: Central Bisti Lower Gallup Unit

2. NAME OF OPERATOR: Hixon Development Company

8. FARM OR LEASE NAME:

3. ADDRESS OF OPERATOR: P.O. Box 2810, Farmington, New Mexico 87401

9. WELL NO.: 54

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 660' FWL, 1980' FNL, Section 5, T25N, R12W

10. FIELD AND POOL, OR WILDCAT: Bisti Lower Gallup

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Section 5, T25N, R12W

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6168' 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:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			☐
(Other) Convert to Water Injection			X	(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 4810'-22', 4862'-70 and 4876'-82' will be squeezed with 300 sacks cement. Well will be cleaned out to 4840' and the interval 4810'-22' reperforated with 25 0.41" holes. The perforations will be acidized with 1500 gallons 15% HCl acid. The well name will be changed to WI-102 and the well placed on water injection.

RECEIVED
JUN 30 1982

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

SIGNED [signature] TITLE Petroleum Engineer DATE 6/22/82

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

APPROVED
JUL 01 1982
JAMES F. SIMS
DISTRICT ENGINEER

JAE

Authorized as per C.A.'s b; R 1414

*See Instructions on Reverse Side

NMOCC

HIXON DEVELOPMENT COMPANY
P. O. BOX 2810
FARMINGTON, NEW MEXICO 87401

June 29, 1982

Mr. James F. Sims
District Oil and Gas Supervisor
Drawer 600
Farmington, New Mexico 87401

Subject: Sundry Notices to Convert to Water Injection
CBU Well No. 54
Section 5, T25N, R12W
San Juan County, New Mexico

Dear Mr. Sims:

This refers to our subject application and your attached letter dated 6/25/82.

The Central Bisti Lower Gallup Unit is an active federal and State approved pressure maintenance project. Secondary recovery water injection operations have been in progress since 1959. We are requesting a change in well status, from production to pressure maintenance injection.

CBU Well No. 54 was a former water injection/pressure maintenance Lower Gallup well in the 1960's. We recover secondary oil and alternately inject into and produce the same zone. We now plan to convert this well to pressure maintenance. It is not a new salt water disposal recompletion project. It is a Unit secondary recovery operation.

Enclosed is our original sundry notice and requested supplemental information.

Please let us know if you need additional information.

Very truly yours,

Hixon Development Company

by A. L. Kuchera

Aldrich L. Kuchera
Executive Vice President

ALK:cb

Enclosures

Hixon Development Company
Central Bisti Lower Gallup Unit Well No. 54
Application to Return to Pressure Maintenance

1. Name - CBU Well No. 54 (Well name to be changed to WI-102) Federal minerals. Unit area. Refer to attached sundry notice.

2. There will be 600 BWPD of water injected into the Lower Gallup perforations 4810'-22'. 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 has a history of water injection into the Lower Gallup from July 1959 to January 1964. From 1964 to the present it has been a producing Lower Gallup well. Because of declining bottom hole pressure in this Unit area the well will be returned 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 3880' 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 110'. 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 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. 54

LOCATION 1980' FNL, 660' FWL SECTION 5 T 25N R 12W

CURRENT STATUS Pumping (to be converted to water injection)

GLE

RBM 6168'

DF

SURFACE CASING

Hole size: 12-1/4"

Casing: 8-5/8" 24#

Casing set @ 192' w/ 175 sx

FORMATION TOPS

Fruitland

Pictured Cliffs 1102'

Lewis

Cliffhouse

Menefee

Point Lookout 3607'

Mancos

Upper Gallup 4676'

Lower Gallup 4788'

CEMENT TOP 3880' (temp. survey)

PERFORATIONS 4810'-22', 4862'-70', 4876'-82'

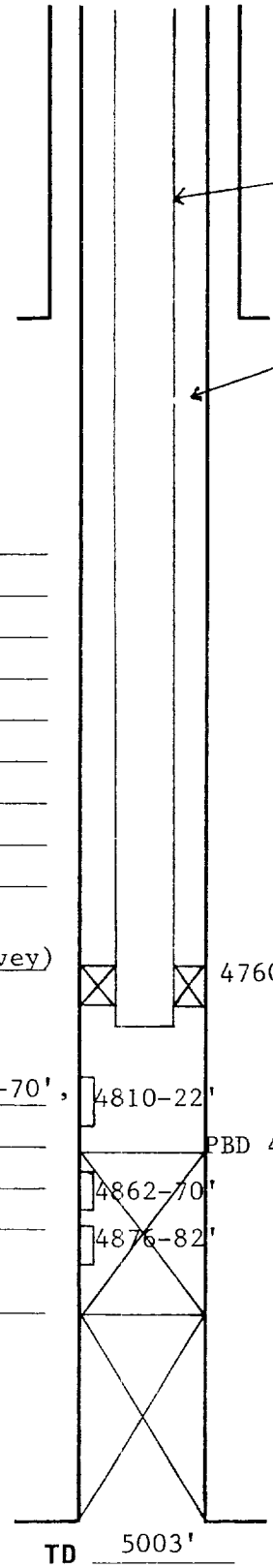
PBD 4969'

PRODUCTION CASING

Hole size: 7-7/8"

Casing: 5-1/2" 14# J-55

Casing set @ 5000' w/ 200 sx



WELL HISTORY

Spud date: 6/26/56

Original owner: Sunray Mid-Continent

IP 255 BOPD BWPD

GOR

Completion treatment: 2 stage frac with 15,000# and 15,000# 20-40 sand

CURRENT DATA

Pumping Unit Parkersburg 80D

Tubing 2-3/8"

Pump size 2 x 1-1/2 x 16

Rod string 189 of 3/4"

Remarks Model D packer drilled and driven to 4893' 12/22/63

Well fraced with 30,000# sand/oil 12/2/64.

Convert to WI by squeezing oil perforations with 300 sacks cement, drill out to 4840', reperforate 4810'-22', acidize and put on water injection below Model AD-1 packer set 50' above top perforation

san juan testing laboratories, inc.

501 WEST APACHE • P.O. BOX 1078 • FARMINGTON NEW MEXICO

PHONE
327-4488

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

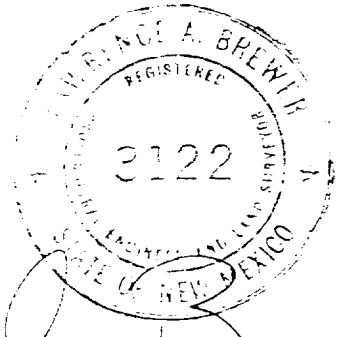
Essentially this is a 0.2% sodium sulfate solution.

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

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

TEST NO. 22096

Certified by:



United States Department of the Interior

MINERALS MANAGEMENT SERVICE
DISTRICT OIL AND GAS OFFICE
POST OFFICE DRAWER 600
FARMINGTON, NEW MEXICO 87401

June 25, 1982

Hixon Development Company
P.O. Box 2810
Farmington, New Mexico 87401

Gentlemen:

Your Sundry Notice of Intent to Recomplete as a Water Injection well your No. 54 Central Bisti Lower Gallup Unit, SW¼NW¼ sec. 5, T. 25 N., R. 12 W., on Federal lease Santa Fe 078056, is returned with no action taken. The information supplied does not fulfill the requirements of NTL-2B.

Attached is a list of the information we need in order to consider your application to convert.

Sincerely yours,

for James F. Sims
District Oil & Gas Supervisor

Enclosures