

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPPLICATE
(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 <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. SF 078056	
2. NAME OF OPERATOR Hixon Development Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Unit	
3. ADDRESS OF OPERATOR P.O. Box 2810, Farmington, New Mexico 87401		7. UNIT AGREEMENT NAME Central Bisti Lower Gallup	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 660' FNL, 660' FWL, Section 6, T25N, R12W		8. FARM OR LEASE NAME Unit	
14. PERMIT NO.		9. WELL NO. 5	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6184' GLE		10. FIELD AND POOL, OR WILDCAT Bisti Lower Gallup	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 6, T25N, R12W	
		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 <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	
(Other) Convert to Water Injection <input checked="" type="checkbox"/>		(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 Lower Gallup Sand oil well to water injection. The perforations 4874'-78', 4896'-4900', 4912'-16', 4934'-38' and 4828'-56' will be squeezed with 150 sacks cement. The well will be cleaned out to 4865' and the interval 4828'-56' reperf-
orated with 56 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-5.
Please find supplemental information attached.

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

SIGNED Charles K. Kneale TITLE Petroleum Engineer

DATE 11/15/82

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

Does not have approval to inject

*See Instructions on Reverse Side

APPROVED
DATE _____
DEC 15 1982
DISTRICT ENGINEER

Hixon Development Company
Central Bisti Lower Gallup Unit Well No. 5
Supplemental Information

1. Name - CBU Well No. 5. (Well name to be changed to WI-5). Federal Minerals. Unit area. Refer to attached sundry notice.
2. There will be 600 BWPD of water injected into the Lower Gallup perforations 4828'-56'. 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 non-commercial in July of 1978 because of incroaching water from offset injectors. This well was used in the pilot injection project in 1957. 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 3700' 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 90'. 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. 5

LOCATION 660' FNL, 660' FWL SECTION 6 T 25N R 12W

CURRENT STATUS: _____

GLE 6184'

RBM 6196'

DF _____

SURFACE CASING

Hole size: 12-3/4"

Casing: 10-3/4" 32.75# H-40

Casing set @ 209' w/ 175 sacks

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

Packer Corrosion Fluid

FORMATION TOPS

Fruitland _____

Pictured Cliffs 1200'

Lewis _____

Cliffhouse _____

Menefee _____

Point Lookout 3645'

Mancos _____

Upper Gallup 4718'

Lower Gallup 4924'

CEMENT TOP 3700' (temp survey)

PERFORATIONS 4828'-56' (4 SPF)

4874'-78', 4896'-4900'

4912'-16', 4934'-38'

PBD 4943' (1977)

PRODUCTION CASING

Hole size: 8-3/4"

Casing: 7" 20# & 23#

Casing set @ 5001' with 200 sacks TD 5002'

WELL HISTORY

Spud date: 4-2-56

Original owner: Sunray

IP 288 BOPD 0 BWPD _____

GOR 396

Completion treatment: Fraced with 30,000 # sand 6/9/56

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

Lab No. 24509 Water Analysis for Petroleum Engineering

TEST RESULTS

WATER ANALYSIS FOR PETROLEUM ENGINEERING

Constituent		Constituents	Meg/L	ppm
Total Solids	2263 ppm	Cations		
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

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:

