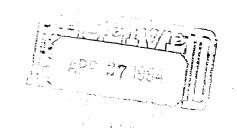
HIXON DEVELOPMENT COMPANY

P. O. BOX 2810 FARMINGTON, NEW MEXICO 87499



April 16, 1984

Oil Conservation Division P.O. Box 2088 Santa Fe, New Mexico 87501

Subject: CBU No. 63

SW/4 NW/4, Section 8, T25N, R12W

San Juan County, New Mexico

Gentlemen:

Attached for your approval is our Application for Authorization to Inject for the subject well.

Very truly yours,

Hixon Development Company

Aldrich L. Kuchera

Executive Vice President

ALK:cb

Attachments

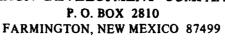
cc: Mr. Frank Chavez

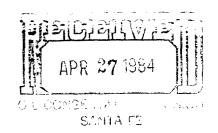
Oil Conservation Division

1000 Rio Brazos Road

Aztec, New Mexico 87410

HIXON DEVELOPMENT COMPANY P. O. BOX 2810





April 16, 1984

Bureau of Indian Affairs Navajo Area Office Minerals Department Box 146 Window Rock, Arizona 86515

CBU Well No. 63 Subject:

SW/4 NW/4 Section 8, T25N, R12W San Juan County, New Mexico

Gentlemen:

Attached is our Application for Authorization to Inject for the subject well. We are required by the Oil Conservation Division to furnish copies of these applications to the surface owners.

Very truly yours,

Hixon Development Company

Aldrich L. Kuchera

Executive Vice President

ALK:cb

Attachments

Certified Mail No. 933622

Signature

of the earlier submittal.

•	BANTA FE NEW ME ALD #7501						
APPLIC	ATION FOR AUTHORIZATION TO INJECT						
1.	Purpose: Secondary Recovery Pressure Maintenance Disposal Storage Application qualifies for administrative approval? Xyes Doo						
II.	Operator: Hixon Development Company						
	Address: P.O. Box 2810, Farmington, New Mexico 87499						
	Contact party: Aldrich L. Kuchera Phone: (505) 325-6984						
111.	Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.						
IV.	Is this an expansion of an existing project? X yes \square no If yes, give the Division order number authorizing the project $R-1636-A$						
٧.	Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.						
· vI.	Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.						
VII.	Attach data on the proposed operation, including:						
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.). 						
*VI11.	Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.						
IX.	Describe the proposed stimulation program, if any.						
· x.	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)						
XI.	Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.						
XII.	Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.						
XIII.	Applicants must complete the "Proof of Notice" section on the reverse side of this form.						
X1V.	Certification						
	I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief. Name: Aldrich L. Kuchera Title Petroleum Engineer						

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance

/ Date: _

4/16/84

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application.

The data must be both in tabular and schematic form and shall include:

sauk s

- (1) Lease name; Well No.; location by Section. Township, and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.
 - (1) The name of the injection formation and, if applicable, the field or pool name.
 - (2) The injection interval and whether it is perforated or open-hole.
 - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
 - (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
 - (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

Hixon Development Company
Application for Authorization to Inject
Form C-108 Supplemental Information

CBU Well No. 63 SW/4 NW/4, Section 8, T25N, R12W San Juan County, New Mexico

- I. Shown on Application.
- II. Shown on Application.
- III. Well data attached
- IV. This well is located in a Federal and State approved waterflood project operational since 1959.
 - V. Area of review is shown on attached map.
- VI. Information for well's located in the area of review are attached as follows:

CBU Well No. 18

CBU Well No. 19

CBU Well No. 31

CBU Well No. 32

CBU Well No. 33

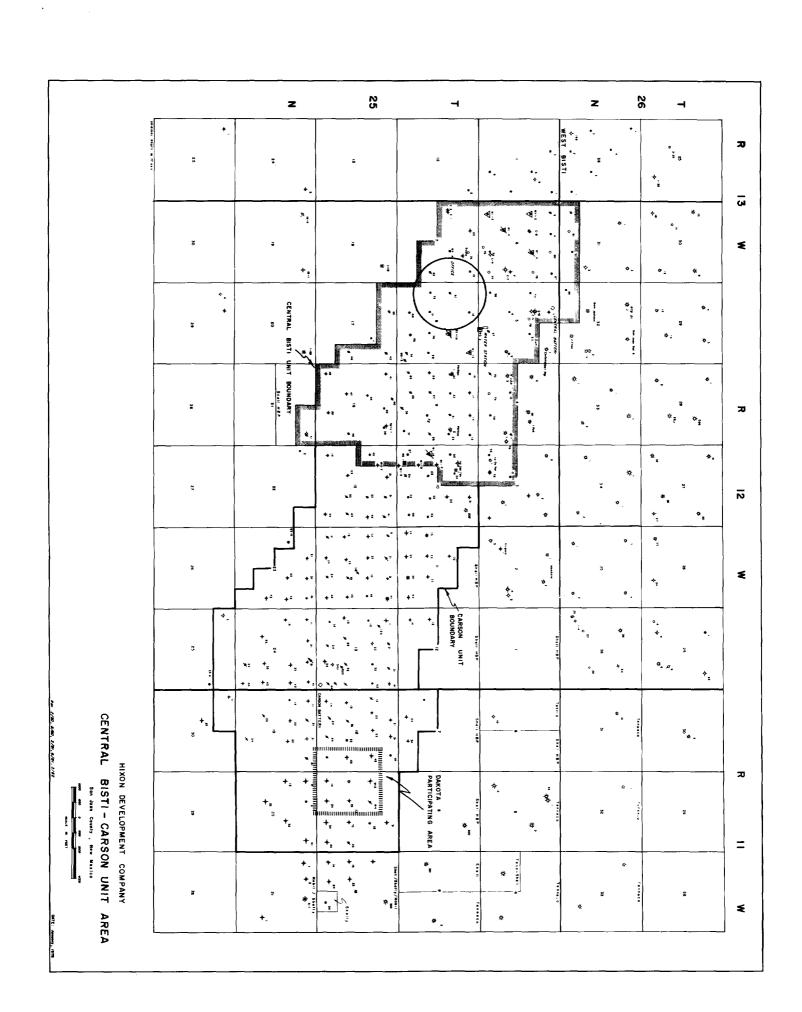
CBU Well No. 85

- VII. 1. Proposed average injection rate is 600 BWPD, expected maximum injection rate is 1200 BWPD.
 - 2. The injection system will be closed.
 - 3. Average injection pressures are expected to be in the 840-965 psi range. Maximum injection pressure will be 965 psi.
 - 4. Refer to the attached water analysis report. Since the formation water to be encountered is primarily previously injected water no problems are expected in mixing the two waters.
 - 5. This well is part of an extensive waterflood project active in the Central Bisti Unit since 1959. All produced water is re-injected into the oil productive Lower Gallup sand to maintain pressure. Injection into the Lower Gallup sand is for waterflooding not disposal.
- VIII. The injection zone is the upper bench of the Lower Gallup sandstone. This zone is shown to be 10' in thickness with a top of 4783' KBE as shown on SP log

Application for Authorization to Inject Page 2

previously submitted. No known sources of underground drinking water exist in this area. Water well drilling in the area has shown the Ojo Alamo to be dry.

- IX. The well will be acidized if required to maintain injection rate and pressure.
 - X. Logs were previously submitted.
- XI. No known sources of drinking water exist in this area.
- XII. This well is part of the existing approved waterflood operation for the Central Bisti Lower Gallup Sand Unit. It is not a disposal well.
- XIII. Proof of notification attached.
 - XIV. Certification shown on application.



sa. juan testing labo itory, 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.	Sompled byHixon Personnel				
		Location NW NW Sec. 6, T25N, R12W				
Source of Material	Lower Gallup Produced Water					
And the second s						
Lab No	24509 Water Analysis for Petroleum Engineering .					
	TES	T RESULTS				
		ALYSIS FOR PETROLEUM ENGINEERING				
onstituent	Constituents					

Total Solids pH Resistivity Conductivity	2263 ppm 7.25 2.94 ohms/meter @70°F 3,400 micromhos/cm @ 70°F	Cations Sodium Calcium Magnesium Iron Barium	Meg/L 29.3 2.3 0.5 neg.	ppm 674 45 6 3
Comments		<u>Anions</u>		
Essentially this sulfate solution	s is a 0.2% sodium on.	Chloride Bicarbonate Carbonate Hydroxide Sulfate	4.1 4.0 0 ' 0 24.0	145 244 0 0 1150

Copies to Hixon Development Co. (3)

P.O. Box 2810

Farmington, New Mexico 87401

TEST NO. 22096





WELL NAME: CBU WELL NO. 63 LOCATION: 1980: FNL, 560: FWL, 8-25N-12W

GLE: 32301 REM:

SURFACE CASING HOLE SIZE: 12-1/4" SURFACE CASING: 8-5/8" 24# 8RD J-55 PRODUCTION CASING: 5-1/2" 14# SRD J-55 SURFACE CASING SET AT: 3291

FORMATION TOPS FRUITLAND:

PICTURED CLIFFS: 11741

LEWIS:

CLIFFHOUSE: MENEFEE:

POINT LOOKOUT: 38201

MANCOS: 37921

UFPER GALLUP: 46821 LOWER GALLUP: 47881

PBD: 4915/

TOTAL DEPTH: 4950/

DF:

FRODUCTION CASING HOLE SIZE: 7-7/8"

PRODUCTION CASING SET AT: 49494

PERFS: 4888-961, 4872-801,

: 4806-167, 4839-467, : 4854-627

WELL HISTORY

SPUD DATE: 7/13/56

IP: 375 BOPD

GOR:

KB:

COMPLETION:

REMARKS:

WELL NAME: CBU WELL NO. 18 LOCATION: 660' FNL, 1980' FWL, 8-25N-12W GLE: 61941 DF: KB: SURFACE CASING HOLE SIZE: 12-1/2" PRODUCTION CASING HOLE SIZE: 8-8/4" SURFACE CASING: 8-5/8" 24# 8RD PRODUCTION CASING: 5-1/2" 14# 8RD SURFACE CASING SET AT: 2044 PRODUCTION CASING SET AT: 49604 FORMATION TOPS PERFS: 4878-844, 4862-704, : 4796-48081 FRUITLAND: PICTURED CLIFFS: 12084 LEWIS: CLIFFHOUSE: WELL HISTORY SPUD DATE: 7/7/56 MENEFEE: POINT LOOKOUT: 3610/ IP: 472 BOPD GOR: COMPLETION: FRAC W/ 15000 GAL MANCOS: UPPER GALLUP: 46921 : OIL & 15000# SAND LOVER GALLUP: 47801 REMARKS: FBD: 4925/

WELL NAME: CBU WELL NO. 19 LOCATION: 660' FNL, 660' FEL, 7-25N-12W DF: 62381 GLE: 62181 RBM: KB: SURFACE CASING HOLE SIZE: 12-1/4" PRODUCTION CASING HOLE SIZE: 7-7/8" SURFACE CASING: 8-5/8" 24# 8RD PRODUCTION CASING: 5-1/2" 14# 8RD SURFACE CASING SET AT: 1924 PRODUCTION CASING SET AT: 5000/ FORMATION TOPS PERFS: 4804-187, 4833-407, : 4852-58/, 4871-77/, : 4886-95/ FRUITLAND: PICTURED CLIFFS: 11771 LEWIS: WELL HISTORY CLIFFHOUSE: SPUD DATE: 7/2/56 MENEFEE: POINT LOOKOUT: 36124 IP: 421 BOPD GOR:

PBD:

TOTAL DEPTH: 5000/

UPPER GALLUP: 47021 LOWER GALLUP: 47891

MANCOS: 3793/

REMARKS:

COMPLETION:

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:

WELL NAME: OBU WELL # 31 (WIW-)5/ LOCATION: 1988/ FSL, 1988/ FWL, SECTION 8, T25N, R12W GLE: 62354 RBM: FŒ: SURFACE CASING HOLE SIZE: 12-1/4" PRODUCTION CASING HOLE SIZE: 7-7/8" SURFACE CASING: 8-5/8" 24# PRODUCTION CASING: 4-1/2" 9.5# SURFACE CASING SET AT: 315' PRODUCTION CASING SET AT: 49534 PERFS: 47821-931, 48121-271, FORMATION TOPS : 48327-417, 48527-667, : 48667-787 FRUITLAND: PICTURED CLIFFS: LEWIS: WELL HISTORY CLIFFHOUSE: MENEFEE: SPUD DATE: 8/14/59 IP: 80 BOPD POINT LOOKOUT: 60R: MANCOS: COMPLETION: 9/59 UPPER GALLUP: 47684 LOWER GALLUP: REMARKS: PBD: 49201

WELL NAME: CBU WELL NO. 32 LOCATION: 1988 FSL, 6801 FWL, 8-25N-12W REM: 62851 DF: KE: GLE: SURFACE CASING HOLE SIZE: 12-1/4" PRODUCTION CASING HOLE SIZE: 8-5/8" SURFACE CASING: 8-5/8" 24# PRODUCTION CASING: 5-1/2" SURFACE CASING SET AT: 308/ PRODUCTION CASING SET AT: 50547 PERFS: 4831-527, 4866-927 FORMATION TOPS : 4901-104, 4914-264 FRUITLAND: PICTURED CLIFFS: 12121 LEWIS: WELL HISTORY CLIFFHOUSE: SPUD DATE: 7/10/56 MENEFEE: IP: 264 BOPD POINT LOOKOUT: 36471 GOR: COMPLETION: 7/54 MANCOS: UPPER GALLUP: 47821 LOWER GALLUP: REMARKS:

PBD: 49881

WELL NAME: OBU WELL NO. 33 LOCATION: 1980/ FSL, 660/ FEL, 7-25N-12W DF: 62881 KB: 121 GLE: 62784 PRODUCTION CASING HOLE SIZE: 7-7/8" SURFACE CASING HOLE SIZE: 12-1/4" PRODUCTION CASING: 5-1/2" 14# SRD SURFACE CASING: 8-5/8" 24# 8RD SURFACE CASING SET AT: 3461 PRODUCTION CASING SET AT: 49984 FORMATION TOPS PERFS: 4842-584, 4888-984, : 4908-161, 4923-321 FRUITLAND: PICTURED CLIFFS: 12081 : LEWIS: WELL HISTORY CLIFFHOUSE: SPUD DATE: 8/7/56 MENEFEE: POINT LOCKOUT: 3663/ IP: 100 BOPD GOR: MANCO3: 38241 COMPLETION: UPPER GALLUP: 47214 LOWER GALLUP: 48254 REMARKS:

PBD: 49531

WELL NAME: CEU WELL NO. 85

LOCATION: 1988/ FNL, 668/ FEL, 7-25H-12W

GLE: 6265

REM:

DF: 6266 KB: 6278

GOR:

SURFACE CASING HOLE SIZE: 12-1/4" SURFACE CASING: 8-5/8" J-55 24# SRD

SURFACE CASING SET AT: 2161

FORMATION TOPS FRUITLAND: 6894

PICTURED CLIFFS: 11867

LEWIS: 1342'

CLIFFHOUSE: 15207

MENEFEE: 2618

POINT LOOKOUT: 36384

MANCOS: 3814/

UPPER GALLUP: 47284

LOWER GALLUP: 48221

PBD: 49981

TOTAL DEPTH: 5030/

PRODUCTION CASING HOLE SIZE: 7-7/8" PRODUCTION CASING: 5-1/2" K-55 15.5%

PRODUCTION CASING SET AT: 5030/

PERFS: 4833-437, 4862-727

WELL HISTORY

SPUD DATE: 9/10/83

IP:

COMPLETION:

REMARKS:

NOTICE

Hixon Development Company, P.O. Box 2810, Farmington, New Mexico 87499, (505)325-6984 whoes agent is Aldrich L. Kuchera hereby notifies interested parties that the following list of wells are to be converted to water injection wells. Maximum rate will be 1200 BWPD at less than 965 psi. Any request for information or objections should be filed with the Oil Conservation Divsion, P.O. Box 2088, Santa Fe, New Mexico 87501 within 15 days. CBU Well No. 66, SW/4 SW/4, Section 32, T26N, R12W; CBU Well No. 63, SW/4 NW/4, Section 8, T25N, R12W; CBU Well No. 57, SW/4 SE/4, Section 5, T25N, R12W; CBU Well No. 56, SW/4 SW/4, Section 5, T25N, R12W; CBU Well No. 53, SW/4 NW/4, Section 5, T25N, R12W: CBU Well No. 52, SW/4 SE/4, Section 31, T26N, R12W; CBU Well No. 64, SW/4 NE/4, Section 7, T25N, R12W; CBU Well No. 21, SW/4 NW/4, Section 7, T25N, R12W; CBU Well No. 73, SW/4 SE/4, SEction 8, T25N, R12W

To be published: 4/26/84

Legal No.: 14698



STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE

1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (505) 334-6178

BOX 208	NSERVATI 88 FE, NEW								(505) 334-617
DATE		· 							
Pi Pi Pi	roposed roposed roposed roposed roposed	DHC NSL SWD WFX L				1			
Gentler	men:								
l have	examine	d the a	applica	ation dat	ed4	-76-84	<i>'</i>		
for the	e Wixo	n Den	r. Co.		CY.	su 463		E-8-	25 W-17W Unit, S-T-R
		0pera	tor		Lease	and Wel	1 No.		Unit, S-T-R
and my	recomme	ndat ior		as follo		·			
		·							
Yours	truly,								
3	ركس		4 /						