DEPARTMENT OF THE INTERIOR (Other Instructions on re- BUREAU OF LAND MANAGEMENT.  SUNDRY NOTICES AND REPORTS ON WELLS  (Do not use this form for proposals to drull or to deeped or plug back to a different reservoir.  Use "APPLICATION FOR PERMIT—" for such proposals.)  I.  OIL  WELL OTHER  P.O. Box 420, Farmington, NM 87499  Location of Meell (Report location clearly and in accordance with any State requirements.*	5. LEASE DESIGNATION AND SERIAL NO.  SF-078091  6. IF INDIAN, ALLOTTEE OR TRIBE NAME  7. URIT AMPREMENT HAME  West Bisti Unit  6. FARM OR LEASE HAME  West Bisti Unit  9. WALL NO.  127
SUNDRY NOTICES AND REPORTS ON WELLS  (Do not use this form for proposals to drull or to deeped or plug back to a different reservoir.  Use "APPLICATION FOR PERMIT—" for such proposals.)  1. OIL WELL OTHER  2. NAME OF OPERATOR  DUGAN PRODUCTION CORP.  1. ADDRESS OF OPERATOR  P.O. Box 420, Farmington, NM 87499	6. IF INDIAN, ALLOTTEE OR TRIBE NAME  7. URIT MARRIMENT HAME  West Bisti Unit  8. FARM OR LEASE HAME  West Bisti Unit  9. WELL EO.
I.  OIL WELL WELL OTHER  2. NAME OF OPERATOR  DUGAN PRODUCTION CORP.  1. ADDRESS OF OPERATOR  P.O. Box 420, Farmington, NM 87499	7. UNIX MARRHENT HAME West Bisti Unit 8. FARM OR LEASE HAME West Bisti Unit 9. WELL EO.
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P.O. Box 420, Farmington, NM 87499	West Bisti Unit
P.O. Box 420, Farmington, NM 87499	9. WELL SO.
P.O. Box 420, Farmington, NM 87499	
1. LOCATION OF WELL (Report location electrons of the control of t	197
	1 4 1
See also apace 17 below )  At auriace	10. FIELD AND POOL, OR WILDCAT
	Bisti Lower Gallup
1980' FNL & 1980' FEL	11. BRC, T. R. M., OR REK. AND BURYET OR ARMA Sec. 28. T26N. R13W. NMPM
APTH 10 30-045-05684-0000 15. ELEVATIONS (Show whether Dr. ET. CR. etc.)	12. COUPTY OR PARISE 13. STATE San Juan NM
TEST WATER SECT-OFF  POLL OR ALTER CASING  WATER SECT-OFF  PRACTURE TREAT  SHOOT OR ACIDIES  REPAIR WELL  (Other) Convent to Injection  TOUR COMPLETE OF PRACTURE TREATMENT  (Other) Convent to Injection  (Other) Completion or Recognification of Completion of Completion or Recognification of Completion or Recognification of Completion of Co	ESPAIRAND VELL  1 199 ALTERING CASING  ABANDON MENT*  mulfiple completion on Well  C'Reprt and Log form.)

Convert well to injection as follows:

- 1. Pull tubing, rods and pump.
- 2. Run plastic coated tubing with packer to 4950'.
- 3. Load annulus with packer fluid.
- 4. Casing integrity will be tested prior to injection.

Injection will be confined to existing Gallup interval perforations 5028-48. Maximum surface pressure will be 750 psi. This extension of injection activity is for an existing pressure maintenance project.

Information supplied to state is attached.

SIGNED John Alexander		m Engineer ACCEPTED FOR REGORD
(This space for Federal or State office use)  APPROVED BY  CONDITIONS OF APPROVAL, IF ANY:	TITLE	FEB 0 4 1991  DATE  FARMINGTON RESOURCE AREA
	NMOCD	BY A STATE OF THE SOUTH OF THE

#### UIL LUNDEHVATION LIVIDION

FORM C-108 Revised 7-1-81

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APPL'CAT	10N FOR	AUTHORIZATIO	ON TO INJECT
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11.	Operators	DUGAN PRODUCTI	ON CORP.	SI JIM	-7 FH 1728	
	Address:	P.O. Box 420,	Farmington, NM	87 <b>69</b> 90 FAR	Mayon, N.M.	
	Contact pa	rty:John Alexand	er	Pho:	ne: (505) 325-1	1821
111.	Well data:	Complete the data proposed for injection	required on the ction. Addition	reverse side al sheets may	of this form for attached if	or each well necessary.
IV.	Is this an If yes, gi	expansion of an exi we the Division orde	isting project? er number author	X yes izing the pro	no rect <u>R-1638</u>	·
٧.	Injection (	p that identifies a cell with a one-half circle identifies	l mile radius ci	rcie drawn ard	o miles of any ound each propos	proposed sed injection
• VI.	mell's type	bulation of data on the proposed injecti t, construction, dat of any plugged wel	ion zone. Such ( e drilled, loca)	data shall ind tion. deoth. p	clude a descript	ion of each
VII.	Attach data	on the proposed op	eration, includ	ing:		
	7. Whe 3. Pro 4. Sou t 5. If	posed average and mether the system is posed average and merces and an appropriate receiving format injection is for dit or within one milling disposal zone foulterature, studies,	open or closed; aximum injection iate analysis of ion if other that sposal purposes e of the propose rmation water (m	n pressure; injection fluin reinjected into a zone ned well, attac	uid and compati produced water; ot productive o h a chemical an	bility with and f oil or gas alvais of
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ıx.	Describe th	proposed atimulati	ion program, if	any.		
• x.	Attach approvies with the Di	priate logging and vision they need not	test data on th t be resubmitted	e well. (If	well logs have	been filed
· xı.	available a	mical analysis of f nd producing) within wells and dates sam	n one mile of an	y injection of	fresh water wel r disposal well	ls (if showing
XII.	or any other	or disposal wells milable geologic and hydrologic connectionking water.	l engineering da	ta and find n	evidence of o	oen faults
XIII.	Applicants #	ust complete the "P	roof of Notice"	section on the	he reverse side	of this form.
XIV.	Certification	n				
	I hereby cer to the best	tify that the infor of my knowledge and	mation submitted	d with this ap	oplication is t	rue and correct
	Name:Joh:	Alexander	<del>,</del>	Title	Operations M	anager
	Signature:	with Clan	an Oh	Date:	0-29	(4/1)

of the earlier submittal. logs submitted 11-56 on completion.

#### III. WELL DATA



- (1) Lense name; Well Mo.; 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, hule 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 Hell 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 SUBHITTED.

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.

Nos.III, VII, VIII, IX, XI, XIV on Form C-108

Dugan Production Corp. P.O. Box 420 Farmington, N.M. 87499

#### III A. Injection Well Information:

1 ...

- 1. West Bisti Unit No. 127 1980' FNL & 1980' FEL 28-26N-13W
- 2. 9-5/8" 25.4 lb. set @ 214' in 13-3/4" hole. Cemented with 175 sks. "Regular" + 2% CaCl<sub>2</sub>. Circulated to surface.

5% 14 and 15.5 lb. set @ 5201' in 7-7/8" hole. Cemented with 100 sks. + 3% gel. Cement top @ 4400' by temperature survey.

- 3. Tubing will be 2-3/8" 4.7 lb. EUE 8rd., plastic lined. Setting depth will be ±4950'.
- 4. Packer will be a Baker Model "FH" Hydostatic Set, plastic coated internally and externally. Setting depth will be ±4950'.

#### III B. Formation Information:

- 1. Gallup Sandstone. Bisti Lower Gallup Field.
- 2. Injection interval perforated 5028-5048.
- 3. Originally drilled as a production well.
- 4. There are no other zones perforated in this well.
- 5. Next highest production zone: Pictured Cliffs 1343'. Next lower production zone: Dakota 5700' (estimate)

#### VII <u>Data On Proposed Operation:</u>

- Average daily injection rate is expected to be 400 bwpd, with a maximum rate expected to be 1,000 bwpd.
- 2. The system is closed.
- 3. The average injection pressure will be 650 psi, with a maximum of 750 psi.
- 4. Injected water will that produced from the Gallup formation, and re-injected into the Gallup formation.
- 5. This is not a disposal well.

#### VIII Geologic Information:

Injection will be into the Gallup sandstone. Top of the Gallup is at 4938' with a total thickness of 240'. There are no known underground sources of drinking water above or below the Gallup in this well.

#### IX Stimulation:

No stimulation is proposed.

#### XI Fresh Water Analysis:

There are no active water wells in the area.

#### XIV Proof Of Notice:

Attached are copies of the certified mail receipts notifying The Navajo Tribe as surface owner, and BLM as offset lease owner. A copy of the letter provided is attached. Dugan Production is the unit operator and owns the N/2 N/2 of section 27, leaving only the unleased SE/4 of section 21 not operated by Dugan.

A certified copy of the legal notice published in The Farmington Daily Times is attached.

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## DUGAN PRODUCTION CORP.

# DATA ON WELLS OFFSET TO WEST BISTI UNIT NO. 127 No. VI on Form C-108

				on Form C-	198
METT	LOCATION	TYPE	DRILLED	DEPTH	DATA
W8U 124	660' FNL & 660' FEL 28-26M-13M	PRODUCER	6-57	5176	9-5/8" 25.4 LB. CASING @ 214' - CEMEMETED M/ 200 SKS CIRCULATED TO SURFACE.
					51/2" 14 LB. CASING @ 5176' - CEMENTED W/ 100 SKS. + 3% GEL. CEMENT TOP @ 4600' BY TEMPERATURE SURVEY
					GALLUP PERFORATED 5020-30; 5070-86 SAND-OIL FRAC W/ 25,000 GAL. DIL & 30,000 LB. SAND. RE-FRAC 76,250 GAL. WATER & 131,000 LB. SAND
WELL	LOCATION	TYPE	DRILLED	DEPTH	DATA
WBU 123	660'FNL & 1980' FWL 28-26M-13M	PRODUCER	4-57	5229	9-5/8" 25.4 LB. CASING @ 214" - CEMENETED W/ 175 SKS CIRCULATED TO SURFACE.
					51/2" 14 LB. CASING @ 5229' - CEMENTED W/ 100 SKS. + 3% GEL. CEMENT TOP @ 4600' BY TEMPERATURE SURVEY
					GALLUP PERFORATED 5080-99. SAND-OIL FRAC N/ 50,000 GAL. OIL & 50,000 LB. SAND
WELL	HOLTAGOL	TYPE	DRILLED	DEPTH	DATA
WBU 141	660° FSL & 1980° FEL 28-26M-13M	PRODUCER	4-57	5122	9-5/8" 25.4 LB. CASING @ 214' - CEMEMETED W/ 200 SKS CIRCULATED TO SURFACE.
					51/2" 14 LB. CASING @ 5229" - CEMENTED W/ 100 SKS. + 3% GEL. CEMENT TOP @ 4400" BY TEMPERATURE SURVEY
					GALLUP PERFORATED 4994-5008; 5026-34; 5040-44; 5052-66. SAND-OIL FRAC N/ 7700 GAL. OIL & 1500 LB. SAND.
WELL	LOCATION	TYPE	DRILLED	DEPTH	DATA
WBU 132	1980' FML & 660' FEL 28-26N-13N	PRODUCER (TA)	3-57	5114	9-5/8" 25.4 LB. CASING @ 214" - CEMENETED W/ 200 SKS CIRCULATED TO SURFACE.
					51/2" 14 LB. CASING @ 5114' - CEMENTED W/ 100 SKS. + 3% GEL. CEMENT TOP @ 4365' BY TEMPERATURE SURVEY
					GALLUP PERFORATED 5026-38; 4968-88. SAND-DIL FRAC W/ 20,000 GAL. DIL & 20,000 LB. SAND.
					CAST IRON BRIDGE PLUG SET @ 4918 W/ 29.5 CU. FT. CEMENT GN TOP. PACKER FLUID SPOTTED ABOVE CEMENT.

## DUGAN PRODUCTION CORP.

## DATA ON WELLS OFFSET TO WEST BISTI UNIT NO. 127

No. VI on Form C-108

WELL	LOCATION	TYPE	DRILLED	DEPTH	DATA
WBU 129	1980' FSL & 1980' FBIL 28-26N-13M	PRODUCER	5-57	5174	9-5/8" 25.4 LB. CASING @ 214' - CEMENETED W/ 200 SKS CIRCULATED TO SURFACE.
					51/2° 14 LB. CASING @ 5174' - CEMENTED W/ 100 SKS. + 3% GEL. CEMENT TOP @ 4400' BY TEMPERATURE SURVEY
					GALLUP PERFORATED 5038-54; 5072-80; 5096-5110. SAND-OIL FRAC W/40,000 GAL. OIL & 40,000 LB. SAND. RE-FRAC PERFORATIONS 5038-54 W/30,000 GAL. WATER & 30,000 LB. SAND.
WELL	LOCATION	TYPE	DRILLED	DEPTH	DATA
W8U 128	1980'FNL & 660' FWL 28-26M-13M	T.A	5-57	5200	9-5/8" 25.4 LB. CASING @ 214' - CEMEMETED W/ 200 SKS CIRCULATED TO SURFACE.
					51/2" 14 LB. CASING @ 5200' - CEMENTED W/ 100 SKS. + 3% GEL. CEMENT TOP @ 4500' BY TEMPERATURE SURVEY
					GALLUP PERFORATED 5074-92. FRACTURED WITH 12,098 GAL. LEASE OIL AND 5,000 LB. 10-20 SAND.
WELL	LOCATION	TYPE	DRILLED	DEPTH	DATA
WBU 126	1980' FNL & 60' FNL 27-26N-13M	PRODUCER	PRODUCER	5165	9-5/8" 25.4 LB. CASING @ 214' - CEMENETED W/ 200 SKS CIRCULATED TO SURFACE.
					51/2" 14 LB. CASING @ 5164' - CEMENTED W/ 100 SKS. + 3% GEL.

51/2" 14 LB. CASING @ 5164' - CEMENTED W/ 100 SKS. + 3% GEL. CEMENT TOP @ 4660' BY TEMPERATURE SURVEY

GALLUP PERFORATED 5024-34. FRACTURED WITH 29,476 GAL. LEASE DIL AND 30,000 LB. 10-20 SAND AND 30,000 LB. 20-40 SAND. PERFORATED GALLUP 4970-90.

	No.	26754	
STATE OF NEW MEXICO,		***	
County of San Juan:			
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issue of the said Farmington			
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# PROOF OF NOTICE TO OFFSET LEASE AND SURFACE OWNERS DUGAN PRODUCTION CORP'S WEST BISTI UNIT NO. 127 APPLICATION TO CONVERT TO INJECTION WELL

SENDER: Complete items 1 and 2 when ad	iditional services are desired, and complete items
I TVE VOLUMENTARIS IN the "DETLIGATION OF THE	
Put your address in the "RETURN TO" Space on the from being returned to you. The return receipt fee will the date of delivery. For additional fees the following and check box(es) for additional service(s) requested	services are available. Consult postmaster for least
Show to whom delivered, date, and address (Extre charge)	see's address. 2. 🗆 Restricted Delivery
3. Article Addressed to:	(Extra charge) 4. Article Number
The Navajo Nation	P 551 202 005
	Type of Service:
Eastern Navajo Land Office P.O. Box 948	Registered Insured Cortified COD
	Express Mail Return Receive
Crownpoint, NM 87313	Ahvays obtain signature of addresses
S. Cionestono	or agent and DATE DELIVERED.
5. Signature Addressee X	8. Addressee's Address (ONLY if requested and fee paid)
6. Signature = Reart	ore jet pase)
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10-31290	
8 Form 3811, Apr. 1989 #US.G.P.O. 1988	DOMESTIC RETURN RECEIPT
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SENDER: Complete items 1 and 2 when additional 3 and 4.  Put your address in the "RETURN TO" Space on the refrom being returned to you. The return receipt fee will put date of delivery. For additional fees the following a and check box(ee) for additional service(s) requested.  Show to whom delivered, date, and addresses.  (Extra charge)	werse side. Felture to do this will prevent this card rovide you the name of the person delivered to and ervices are available. Consult postmaster for fee
3. Article Addressed to: Bureau of Land Management 1235 La Plata Hwy. Farmington, NM 87401	4. Article Number  D C C C C C C C C C C C C C C C C C C
8. Signature — Agent X.  8. Signature — Agent X.  7. Date of Delivery   8-30 90	8. Addressee's Address (ONLY if requested and fee paid)
Form 3811, Apr. 1989 +US.Q.P.O. 1989-2	DOMESTIC RETURN RECEIPT



#### STATE OF NEW MEXICO



#### OIL CONSERVATION DIVISION

GARREY CARRUTHERS
GOVERNOR

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87504 (505) 827-5800

ADMINISTRATIVE ORDER NO. PMX-163

APPLICATION OF DUGAN PRODUCTION CORPORATION TO EXPAND ITS PRESSURE MAINTENANCE PROJECT IN THE BISTI LOWER GALLUP POOL IN SAN JUAN COUNTY, NEW MEXICO

# ADMINISTRATIVE ORDER OF THE OIL CONSERVATION DIVISION

Under the provisions of Division Order No. R-1638, Dugan Production Corporation has made application to the Division on November 6, 1990 for permission to expand its West Bisti Pressure Maintenance Project in the Bisti Lower Gallup Pool in San Juan County, New Mexico.

NOW, on this 11th day of December, 1990, the Division Director finds that:

- (1) The application has been filed in due form.
- (2) Satisfactory information has been provided that all offset operators have been duly notified of the application.
- (3) No objection has been received within the waiting period as prescribed by Rule 701(B).
- (4) The proposed injection well is eligible for conversion to water injection under the terms of Rule 701.
- (5) The proposed expansion of the above-referenced pressure maintenance project will not cause waste nor impair correlative rights.
  - (6) The application should be approved.

#### IT IS THEREFORE ORDERED THAT:

Administrative Onler PMX-163
Dugan Production Company
December 12, 1990
Page 2

The applicant, Dugan Production Corporation, be and the same is hereby authorized to inject water into the Lower Gallup formation at approximately 5028 feet to approximately 5048 feet through 2 3/8-inch plastic lined tubing set in a packer at approximately 4950 feet in the following described well for purposes of pressure maintenance to wit:

West Bisti Unit Well No. 127 1980' FNL & 1980' FEL (Unit G) Section 28, T-26 North, Range 13 West, NMPM, San Juan County, New Mexico.

# IT IS FURTHER ORDERED THAT:

The operator shall take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface.

Prior to commencing injection operations into the well, the casing shall be pressure tested from the surface to the packer setting depth to assure the integrity of said casing.

The casing tubing annulus shall be loaded with an inert fluid and equipped with a pressure gauge at the surface or left open to the atmosphere to facilitate detection of leakage in the casing, tubing or packer.

The injection well or system shall be equipped with a pressure limiting device which will limit the wellhead pressure on the injection well to no more than 1006 psi.

The Director of the Division may authorize an increase in injection pressure upon a proper showing by the operator of said well that such higher pressure will not result in migration of the injected fluid from the Lower Gallup formation. Such proper showing shall consist of a valid step-rate test run in accordance with and acceptable to this office.

The operator shall notify the supervisor of the Aztec district office of the Division of the date and time of the installation of injection equipment and of the mechanical integrity test so that the same may be inspected and witnessed.

The operator shall immediately notify the supervisor of the Aztec district office of the Division of the failure of the tubing, casing or packer in said well and shall take such steps as may be timely and necessary to correct such failure or leakage.

Administrative Order PMX-163
Dugan Production Company
December 11, 1950
Page 3

The subject well shall be governed by all provisions of Division Order No. R-1638 and Rules 701-708 of the Division Rules and Regulations not inconsistent herewith.

Prior to commencing injection operations into the well, the applicant shall be required to obtain the appropriate Federal and/or Indian injection permits in accordance with the requirements of 40 CFR Part 147.

PROVIDED FURTHER THAT, jurisdiction of this cause is hereby retained by the Division for the entry of such further order or orders as may be deemed necessary or convenient for the prevention of waste and/or protection of correlative rights; upon failure of the operator to conduct operations in a manner which will ensure the protection of fresh water or in a manner inconsistent with the requirements set forth in this order, the Division may, after notice and hearing, terminate the injection authority granted herein.

The operator shall submit monthly progress reports of the project in accordance with Rules 706 and 1115 of the Division Rules and Regulations.

Approved at Santa Fe, New Mexico, on this 11th day of December, 1990.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

WILLIAM J. LEMA

Director

SEAL