



STATE OF NEW MEXICO  
**ENERGY AND MINERALS DEPARTMENT**  
 OIL CONSERVATION DIVISION  
 AZTEC DISTRICT OFFICE

GARREY CARRUTHERS  
 GOVERNOR

1000 RIO BRAZOS ROAD  
 AZTEC, NEW MEXICO 87410  
 (505) 334-8178

RECEIVED

Date: 9-5-89

SEP 11 1989

OIL CONSERVATION DIV.  
 SANTA FE

Oil Conservation Division  
 P.O. Box 2088  
 Santa Fe, NM 87504-2088

Re: Proposed MC \_\_\_\_\_  
 Proposed DHC \_\_\_\_\_  
 Proposed NSL X \_\_\_\_\_  
 Proposed SWD \_\_\_\_\_  
 Proposed WFX \_\_\_\_\_  
 Proposed PMX \_\_\_\_\_

Gentlemen: IX NSIP

I have examined the application dated 9-5-89

for the DUGAN PRODUCTIONS CORP. ELWOOD P. DOWD #1  
 Operator Lease & Well No.

P-10-24N-9W and my recommendations are as follows:  
 Unit, S-T-R

Approve  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Yours truly,

[Signature]

*Sent copy to Linn's Ranch 11/180*



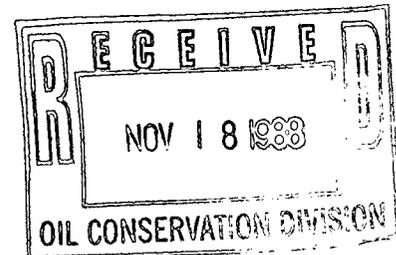
# dugan production corp.

CERTIFIED  
RETURN RECEIPT REQUESTED

November 16, 1988

Mr. William J. LeMay, Director  
New Mexico Oil Conservation Division  
P.O. Box 2088  
Santa Fe, NM 87504-2088

RE: Administrative Approval  
160 Acre Spacing Unit  
Elwood P. Dowd #1 Well  
T24N, R9W  
Section 10: SE/4  
San Juan County, NM



Gentlemen:

Dugan Production Corp., hereby requests administrative approval for a 160 acre non-standard spacing unit consisting of the SE/4 of Section 9, T24N, R9W, under the rules of Order No. R-8768.

By certified mail, return receipt requested, we have provided all operators or owners offsetting the subject non-standard spacing unit with a copy of this letter application. A copy of the offset operator or owner notice along with a list of names and addresses of all operators notified is attached for your information. Upon receiving the "return receipts", we will provide you with a copy for your records.

Should you have questions regarding our application, please feel free to contact me at the letterhead address.

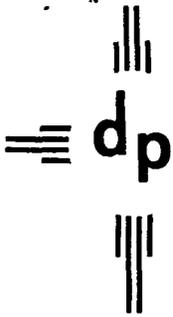
Respectfully,

Richard Corcoran  
Landman

RC/dh

Enc.

*- Needs on NSL being processed  
Book 8 of R-8768*



# dugan production corp.

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CERTIFIED  
RETURN RECEIPT REQUESTED

November 16, 1988

TO: Offsetting Operators or Owners  
(See attached list)

RE: Application for Administrative Approval  
Non-Standard 160 Acre Spacing Unit  
Elwood P. Dowd #1 Well  
T24N, R9W  
Section 10: SE/4  
San Juan County, NM

Gentlemen:

Dugan Production Corp., (Dugan) is making application to the New Mexico Oil Conservation Division, (NMOCD) for administrative approval of a non-standard spacing unit, for the captioned well, consisting of the SE/4 of Section 10, T24N, R9W, to comply with the rules of Order No. R-8768.

Dugan completed the referenced well on April 23, 1983, as a wildcat Picture Cliffs well, spaced 160 acres. The well was drilled on USA lease Number NM-9520, covering the SE/4 of said Section 10, the operating rights of which are owned entirely by Dugan.

The NMOCD under case No. 9420, Order NO. R-8768, established the Basin-Fruitland Coal Gas Pool providing for 320 acre spacing for wells producing from Fruitland Coal seams, effective November 1, 1988.

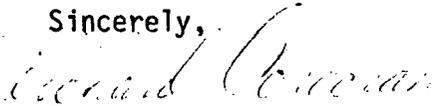
As provided for in the rules of the above mentioned Order, we are giving notice to you as either the operator or owner (or Trustee) of the offsetting acreage, of our application.

We are enclosing a copy of our letter of application and location plat for your reference. Any operator or owner that objects to the administrative granting of the subject non-standard spacing unit should provide notice to the NMOCD within 20 days of our making application. We would also appreciate any such party to also notify Dugan.

Offsetting Operators or Owners  
November 16, 1988  
Page 2 of 2

Should you need additional information regarding our application, please  
feel free to contact me.

Sincerely,



Richard Corcoran  
Landman

RC/dh

Enc.

Conoco  
P.O. Box 2197  
Houston, TX 77252

Reynolds Metals  
Box 9177  
Corpus Christi, TX 78408

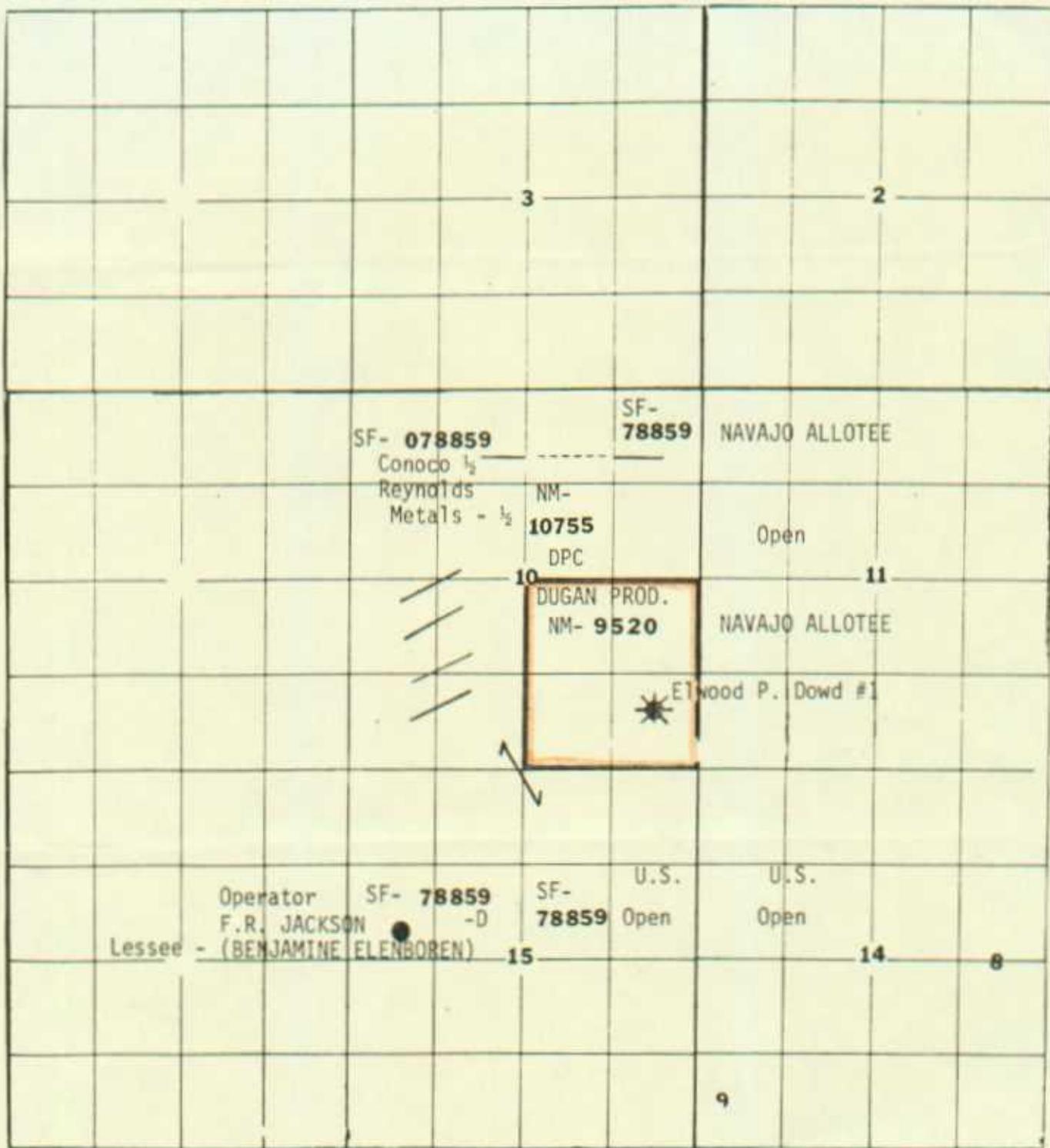
F.R. Jackson  
c/o Benjamin Elenbogen  
4100 Montview Blvd.  
Denver, CO 80207

Area Director, Navajo Trustee for Allottees  
P.O. Box M  
Window Rock, AZ 86515  
Attn: Subsurface Mineral Section

Bureau of Land Management  
Farmington Resources and Tribal Leases  
1235 La Plata Highway  
Farmington, NM 87499

R 9 W

T  
2  
4  
N





STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

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	GAS		
OPERATOR			
PRODUCTION OFFICE			

OIL CONSERVATION DIVISION  
P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501

Form C-104  
Revised 10-01-78  
Format 08-01-83  
Page 1

**RECEIVED**

MAR 20 1987

REQUEST FOR ALLOWABLE  
AND  
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS OIL CON. DIV.  
DIST. 3

I.

Operator DUGAN PRODUCTION COPR.	
Address P.O. Box 208, Farmington, NM 87499	
Reason(s) for filing (Check proper box)	Other (Please explain)
<input type="checkbox"/> New Well <input type="checkbox"/> Recompletion <input type="checkbox"/> Change in Ownership Change in Transporter of: <input type="checkbox"/> Oil <input type="checkbox"/> Casinghead Gas <input checked="" type="checkbox"/> Dry Gas <input type="checkbox"/> Condensate	Effective date 12-13-86

If change of ownership give name and address of previous owner \_\_\_\_\_

II. DESCRIPTION OF WELL AND LEASE

Lease Name Elwood P. Dowd	Well No. 1	Pool Name, including Formation Undes. Pictured Cliffs	Kind of Lease State, Federal or Fee Fed	Lease No. NM 9520
Location Unit Letter <u>P</u> ; <u>1190</u> Feet From The <u>South</u> Line and <u>790</u> Feet From The <u>East</u>				
Line of Section <u>10</u> Township <u>24N</u> Range <u>9W</u> , NMPM, San Juan County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Dugan Production Corp.	P.O. Box 208, Farmington, NM 87499
If well produces oil or liquids, give location of tanks.	Unit   Sec.   Twp.   Rge.   Is gas actually connected?   When
	YES         YES   12-13-86

If this production is commingled with that from any other lease or pool, give commingling order number: \_\_\_\_\_

NOTE: Complete Parts IV and V on reverse side if necessary.

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given is true and complete to the best of my knowledge and belief.

Bud Crane  
Bud Crane (Signature)  
Production Superintendent  
(Title)  
3-18-87  
(Date)

OIL CONSERVATION DIVISION  
APPROVED Frank J. Cava MAR 20 1987  
BY \_\_\_\_\_  
SUPERVISOR DISTRICT 3  
TITLE \_\_\_\_\_

This form is to be filed in compliance with RULE 1104.  
If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.  
All sections of this form must be filled out completely for allowable on new and recompleted wells.  
Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.  
Separate Forms C-104 must be filed for each pool in multiply completed wells.

2-NMOCD, Aztec  
1-File

OIL CONSERVATION DIVISION

Hobbs  
P.O. Box 1980  
Hobbs, NM 88240

Artesia  
P.O. Drawer DD  
Artesia, NM 88210

Aztec  
1000 Rio Brazos  
Aztec, NM 87410

MAR 27 1987

NOTICE OF GAS WELL - CONNECTION / RECONNECTION / DISCONNECTION

This is to notify the Oil Conservation Division of the following:

Connection	_____	First Delivery	_____	Date	_____	Initial Potential	_____
Reconnection	<u>X</u>	First Delivery	12-13-86	Date	_____	Initial Potential	_____
Disconnection	_____						

for delivery of gas from the DUGAN PRODUCTION CORP.  
Operator  
Elwood P. Dowd  
Lease  
94-674-01 1 P 10-24N-9W  
Meter Code Site Code Well No. Unit Letter S-T-R  
Undes. Pictured Cliffs  
Pool

was made on 12-13-86  
date

AOF

Choke

OCD use only  
County \_\_\_\_\_  
Land Type \_\_\_\_\_  
Liq. Transporter \_\_\_\_\_

DUGAN PRODUCTION CORP.  
Transporter  
*Bud Crane*  
Bud Crane - Production Superintendent  
Representative Name/Title  
(Please type or print)

Representative Signature

RECEIVED

Submit in duplicate to the appropriate district office. MAR 20 1987

OIL CON. DIV.  
DIST. 3

F  
0415

EL PASO NATURAL GAS COMPANY  
POST OFFICE BOX 990  
FARMINGTON, NEW MEXICO

MAR - 2 1987  
OIL CONSERVATION DIVISION  
SANTA FE

NOTICE OF DISCONNECT

DATE FEBRUARY 10, 1987

THIS IS TO NOTIFY THE OIL CONSERVATION COMMISSION THAT A DISCONNECT ON

DUGAN PRODUCTION  
Operator

ELWOOD P. DOWD #1  
Well Name

94-674-01  
Meter Code

38369-01 P  
Site Code Well Unit

10-24-9  
S-T-R

UNDESIGNATED PICTURED CLIFFS  
Pool

EL PASO NATURAL GAS  
Name of Purchaser

WAS MADE ON DECEMBER 12, 1986  
Date

DUE TO TEMPORARY DISCONNECT FROM OUR GATHERING SYSTEM TO TURN OVER TO DUGAN PRODUCTION

EL PASO NATURAL GAS CO.  
Purchaser

[Signature]  
Representative

Clerk, Technical Support  
Title

RECEIVED  
FEB 20 1987  
OIL CON. DIV.  
DIST. 3

F  
OHS

XC: OPERATOR  
OIL CONSERVATION COMMISSION (2)  
PRODUCTION CONTROL - El Paso  
LEASE DEVELOPMENT - El Paso  
CONTRACT ADMINISTRATION - El Paso  
FILE

EL PASO NATURAL GAS COMPANY  
POST OFFICE BOX 990  
FARMINGTON, NEW MEXICO

NOTICE OF GAS CONNECTION

16

DATE April 25, 1984

THIS IS TO NOTIFY THE OIL CONSERVATION COMMISSION THAT CONNECTION FOR PURCHASE OF

GAS FROM Dugan Production Corp. Elwood P. Dowd #1  
Operator Well Name

94-674-01 38369-01 P 10-24-9  
Meter Code Site Code Well Unit S-T-R

Undesignated Pictured Cliffs El Paso Natural Gas Company  
Pool Name of Purchaser

WAS MADE ON April 7, 1984 FIRST DELIVERY April 7, 1984  
Date Date

AOF 88

CHOKE 75

F  
DH5

El Paso Natural Gas Company

Purchaser

*Larry Stouy*

Representative

Title

- cc: Operator
- Oil Conservation Commission - 2
- ~~Production~~ - El Paso Production Control
- Contract Administration
- File

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MAY 01 1984  
OIL CON. DIV.  
DIST. 3  
OIL CONSERVATION DIVISION  
SANTA FE

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OPERATOR	GAS
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REQUEST FOR ALLOWABLE  
AND  
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

**RECEIVED**  
APR 16 1984  
OIL CON. DIV.  
DIST. 3

**I. OPERATOR**  
Operator: DUGAN PRODUCTION CORP.  
Address: P O Box 208, Farmington, Nl 87499

Reason(s) for filing (Check proper box)  
 New Well  Change in Transporter of: Oil  Gas  Dry Gas  Condensate   
 Recompletion  Change in Ownership  Casinghead Gas  Other (Please explain): \_\_\_\_\_

If change of ownership give name and address of previous owner: \_\_\_\_\_

**II. DESCRIPTION OF WELL AND LEASE**

Lease Name <u>Elwood P. Dowd</u>	Well No. <u>1</u>	Pool Name, including Formation <u>Undesignated Pictured Cliffs</u>	Kind of Lease State, Federal or Fee <u>Fed.</u>	Lease No. <u>NM 9520</u>
Location Unit Letter <u>P</u> ; <u>1190</u> Feet From The <u>South</u> Line and <u>790</u> Feet From The <u>East</u> Line of Section <u>10</u> Township <u>24N</u> Range <u>9W</u> , NMPM, <u>San Juan</u> County				

**III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS**

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
<u>El Paso Natural Gas</u>	<u>Box 4990, Farmington, NM 87499</u>
If well produces oil or liquids, give location of tanks.	Is gas actually connected? When
	<u>Yes</u> <u>4-10-84</u>

If this production is commingled with that from any other lease or pool, give commingling order number: \_\_\_\_\_

**IV. COMPLETION DATA**

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v.	Diff. Res'v.
Date Spudded	Date Compl. Ready to Prod.	Total Depth	P.B.T.D.					
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation	Top Oil/Gas Pay	Tubing Depth					
Perforations							Depth Casing Shoe	
<b>TUBING, CASING, AND CEMENTING RECORD</b>								
HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT					

**V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL**

(Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF

**GAS WELL**

Actual Prod. Test - MCF/D	Length of Test	Bbls. Condensate/MCF	Gravity of Condensate
Testing Method (pilot, back pr.)	Tubing Pressure (Shot-In)	Casing Pressure (Shot-In)	Choke Size

**VI. CERTIFICATE OF COMPLIANCE**

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Jim L. Jacobs (Signature)  
Geologist (Title)  
4-13-84 (Date)

OIL CONSERVATION DIVISION  
APR 16 1984  
APPROVED \_\_\_\_\_  
BY \_\_\_\_\_  
SUPERVISOR DISTRICT # 3  
TITLE \_\_\_\_\_

This form is to be filed in compliance with RULE 1104.  
If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.  
All sections of this form must be filled out completely for allowable on new and recompleted wells.  
Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.  
Separate Forms C-104 must be filed for each pool in multiply completed wells.

5 BLM, Fmn 1 Harvey 1 File 2 EPNG 1 TR 1 MW  
**UNITED STATES**  
**DEPARTMENT OF THE INTERIOR**  
**GEOLOGICAL SURVEY**

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

Form approved. Budget Bureau No. 42-R355.5.

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG\***

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other   
 b. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. RESVR.  Other

2. NAME OF OPERATOR  
 Dugan Production Corp.

3. ADDRESS OF OPERATOR  
 P O Box 208, Farmington, NM 87499

4. LOCATION OF WELL (Report location clearly and in accordance with any State regulations)\*  
 At surface 1190' FSL - 790' FEL  
 At top prod. interval reported below  
 At total depth

14. PERMIT NO. DATE ISSUED  
 5-30-79

5. LEASE DESIGNATION AND SERIAL NO.  
 NM 9520

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
 Elwood P. Dowd

9. WELL NO.

10. FIELD AND POOL, OR WILDCAT  
 Wildcat - Pictured Cliffs

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
 Sec. 10 T24N R9W

12. COUNTY OR PARISH  
 San Juan

13. STATE  
 NM

15. DATE SPUDDED 5-30-79 16. DATE T.D. REACHED 6-4-79 17. DATE COMPL. (Ready to prod.) 4-23-83 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* 6729' GL 19. ELEV. CASINGHEAD 6729' GL

20. TOTAL DEPTH, MD & TVD 2814' 21. PLUG, BACK T.D., MD & TVD 2270' 22. IF MULTIPLE COMPL., HOW MANY\* single 23. INTERVALS DRILLED BY TD 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\* 1740-44, Pictured Cliffs 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN IES, GR 27. WAS WELL CORED No

28. CASING RECORD (Report all strings set in well)

CASINO SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
7"	20	69' GL	8-3/4"	41 cf class B 2% CaCl	---
2-7/8"	6.4	2814' GL	5-1/8"	315 cf 65-35 w/ 12% gel & 1/4# flocele/sk & class B neat w/ 1/4# flocele/sk	---

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
None					1 1/2"	1750'	

31. PERFORATION RECORD (Interval, size and number)  
 2602-2604, 2608-2610, 2621-2623, 2628-2632, 2640-2644, 14 holes, 1 SPF, 2-1/8". PLUGGED BACK w/ 10 sx cement. 1740-1744', 8 holes, 2 SPF, 2-1/8"

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
1740-44	250 gal 15% HCL, 15,000# 10-20 sand, 21 gal. adafoam, 150 bbl. wtr & 122,100 SFC nitrogen.
2602-44	No frac or acid

33.\* PRODUCTION

DATE FIRST PRODUCTION 1-14-83\*\* PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) flowing WELL STATUS (Producing or shut-in) SI

DATE OF TEST 4-23-83 HOURS TESTED 3 CHOKE SIZE 1/2 PROD'N. FOR TEST PERIOD --- OIL—BBL. --- GAS—MCF. 75 WATER—BBL. heavy mist GAS-OIL RATIO ---

FLOW. TUBING PRESS. 2 CASINO PRESSURE 468 SI CALCULATED 24-HOUR RATE --- OIL—BBL. --- GAS—MCF. 88 WATER—BBL. --- OIL GRAVITY-API (CORR.) ---

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) vented during test; to be sold TEST WITNESSED BY Dugan

35. LIST OF ATTACHMENTS  
 \*\*1st hydrocarbons in well bore; not 1st delivered yet.

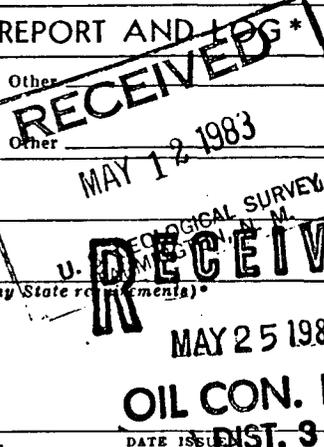
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available data.

SIGNED Thomas A. Dugan TITLE Petroleum Engineer DATE 5-9-83

\*(See Instructions and Spaces for Additional Data on Reverse Side)

NMOCC

FARMINGTON DISTRICT BY *[Signature]*



ACCEPTED FOR RECORD

MAY 23 1983

# INSTRUCTIONS

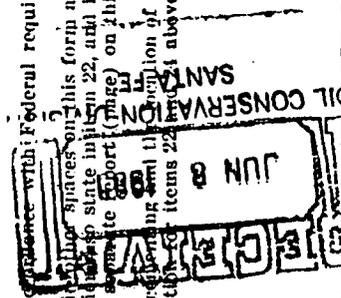
**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

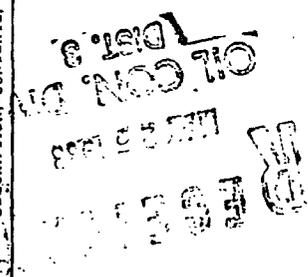
Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in this form and in any attachments. Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completions), complete this form and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sore's Cement": Attached supplemental records for this well should show the details of any multiple stages cementing and the location of the cementing tool. Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instructions on items 22 and 24 above.)



37. SUMMARY OF POROUS ZONES: KNOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL DOWN, FLOWING AND SHUT-IN PRESSURE, AND RECOVERIES		38. GEOLOGIC MARKERS	
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
		MEAS. DEPTH	TRUE VERT. DEPTH
		957'	
		1209'	
		1434'	
		1740'	
		1893'	
		2150'	
			Ojo Alamo Kirtland Fruitland Pictured Cliffs Lewis Chacra



OIL CONSERVATION DIVISION  
P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501

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U.S.G.S.	
LAND OFFICE	
TRANSPORTER	OIL
	GAS
OPERATOR	
PRODUCTION OFFICE	

REQUEST FOR ALLOWABLE  
AND  
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

I. Operator: Dugan Production Corp.  
Address: P O Box 208, Farmington, NM 87499

Reason(s) for filing (Check proper box) Other (Please explain)

New Well  Change in Transporter of: Oil  Dry Gas   
 Recompletion  Casinghead Gas  Condensate   
 Change in Ownership

If change of ownership give name and address of previous owner

II. DESCRIPTION OF WELL AND LEASE

Lease Name <u>Elwood P. Dowd</u>	Well No. <u>1</u>	Pool Name, including Formation <u>Undesignated Pictured Cliffs</u>	Kind of Lease State, Federal or Fee <u>Fed.</u>	Lease No. <u>NM 9520</u>
Location Unit Letter <u>P</u> , <u>1190</u> Feet From The <u>South</u> Line and <u>790</u> Feet From The <u>East</u> Line of Section <u>10</u> Township <u>24 N</u> Range <u>9W</u> , NMPM, <u>San Juan</u> County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
<u>Dugan Production Corp.</u>	<u>P O Box 208, Farmington, NM 87499</u>
If well produces oil or liquids, give location of tanks.	Is gas actually connected? When
	<u>No</u>

If this production is commingled with that from any other lease or pool, give commingling order number

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v.	Drill. Res'v.
		XX	XX					
Date Spudded <u>5-30-79</u>	Date Compl. Ready to Prod. <u>4-23-83</u>	Total Depth <u>2814'</u>	P.B.T.D. <u>2270'</u>					
Elevations (DF, RKB, RT, CR, etc.) <u>6729' GL</u>	Name of Producing Formation <u>Pictured Cliffs</u>	Top Oil/Gas Pay <u>1740'</u>	Tubing Depth <u>1750'</u>					
Perforations <u>1740-44', 8 holes</u>	Depth Casing Shoe <u>2814' GL</u>							
TUBING, CASING, AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT					
<u>8-3/4"</u>	<u>7"</u>	<u>69' GL</u>	<u>41 cf</u>					
<u>5-1/8"</u>	<u>2-7/8"</u>	<u>2814' GL</u>	<u>315 cf</u>					
	<u>1-1/4"</u>	<u>1750'</u>						

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

(Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)
Length of Test	Tubing Pressure	Casing Pressure
Actual Prod. During Test	Oil-Bbls.	Water-Bbls.

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MAY 12 1983  
OIL CON. DIV.  
DIST. 3

GAS WELL

Actual Prod. Test-MCF/D <u>88</u>	Length of Test <u>3 hrs</u>	Bbls. Condensate/MCF <u>---</u>	Gravity of Condensate <u>---</u>
Testing Method (pilot, back pr.) <u>one point back pressure</u>	Tubing Pressure (shut-in) <u>194</u>	Casing Pressure (shut-in) <u>468</u>	Choke Size <u>1/2"</u>

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Thomas A. Dugan (Signature)  
Petroleum Engineer (Title)  
5-9-83 (Date)

OIL CONSERVATION DIVISION  
5-25-83  
APPROVED  
BY [Signature]  
SUPERVISOR DISTRICT # 3

This form is to be filed in compliance with RULE 1104.  
If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 1111.  
All sections of this form must be filled out completely for allowable on new and recompleted wells.  
Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.  
Separate Forms C-104 must be filed for each pool in multiply completed wells.

**OIL CONSERVATION DIVISION**

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

3 NMOCD  
1 Harvey  
1 EPNG

Form C-122  
Revised 10-1-78

**MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL**

1 File

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special				Test Date 4-23-83	
Company Dugan Production Corp.			Connection		
Pool Undesignated		Formation Pictured Cliffs		Unit	
Completion Date 4-23-83		Total Depth 2814'	Plug Back TD 2270	Elevation 6729	Farm or Lease Name Elwood P. Dowd
Csq. Size 2-7/8"	Wt. 6.4	d 2.441	Set At 2814	Perforations: From 1740 To 1744	
Tbg. Size 1 1/4"	Wt. 2.4	d 1.380	Set At 1750	Perforations: From open ended To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple single - gas				Packer Set At ---	County San Juan
Producing Thru tubing		Reservoir Temp. °F e	Mean Annual Temp. °F	Baro. Press. - P <sub>g</sub>	State NM
L	H	G <sub>g</sub> 0.62 est.	% CO <sub>2</sub>	% N <sub>2</sub>	% H <sub>2</sub> S
Prover	Meter Run	Taps			
FLOW DATA			TUBING DATA		CASING DATA
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h <sub>w</sub>
					Temp. °F
					Press. p.s.i.g.
					Temp. °F
					Press. p.s.i.g.
					Temp. °F
					Duration of Flow
SI					
1.					
2.					
3.		1/2			2
4.					184
5.					60
					3 hrs.
RATE OF FLOW CALCULATIONS					
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P <sub>m</sub>	Flow Temp. Factor Ft.	Gravity Factor F <sub>g</sub>
					Super Compress. Factor, F <sub>pv</sub>
					Rate of Flow Q, Mcfd
1					
2.					
3.	5.4315		14	1.000	.9837
4.					1.000
5.					75
NO.	P <sub>f</sub>	Temp. °R	T <sub>f</sub>	Z	Gas Liquid Hydrocarbon Sat. _____ Mcf/bbl.
					A.P.I. Gravity of Liquid Hydrocarbon _____ Deg.
1.					Specific Gravity Separator Gas _____ XXXXXXXXXXXX
2.					Specific Gravity Flowing Fluid _____ MAY 12 1988 XXXX
3.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
4.					Critical Temperature _____ R _____ R
5.					DISC
P <sub>c</sub>	480	P <sub>c</sub> <sup>2</sup>	230,400		
NO.	P <sub>i</sub> <sup>2</sup>	P <sub>w</sub>	R <sub>w</sub> <sup>2</sup>	P <sub>c</sub> <sup>2</sup> - R <sub>w</sub> <sup>2</sup>	(1) $\frac{P_c^2}{R_c^2 - R_w^2} = 1.2001$
1					(2) $\left[ \frac{P_c^2}{R_c^2 - R_w^2} \right]^n = 1.1677$
2					
3		196	38,416	191,984	AOF = O $\left[ \frac{P_c^2}{R_c^2 - R_w^2} \right]^n = 88$
4					
5					
Absolute Open Flow _____ Mcfd @ 15.025			Angle of Slope @ _____		Slope, n .85
Remarks: Very wet - slugging water					
Approved By Division		Conducted By: Dugan		Calculated By:	Checked By:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

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 Form 9-331-C for such proposals.)

1. oil well  gas well  other

2. NAME OF OPERATOR  
DUGAN PRODUCTION CORP.

3. ADDRESS OF OPERATOR  
P O Box 208, Farmington

4. LOCATION OF WELL (REPORT LOCATION CLEARLY IN SPACE 17 below.)  
AT SURFACE: 1190' FSL - 790' FEL  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:  
TEST WATER SHUT-OFF   
FRACTURE TREAT   
SHOOT OR ACIDIZE   
REPAIR WELL   
PULL OR ALTER CASING   
MULTIPLE COMPLETE   
CHANGE ZONES   
ABANDON\*   
(other)

SUBSEQUENT REPORT OF:

**RECEIVED**  
JAN 19 1983  
U. S. GEOLOGICAL SURVEY  
FARMINGTON, N. M.  
XX Status

5. LEASE NM 9520
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME Elwood P. Dowd
9. WELL NO. 1
10. FIELD OR WILDCAT NAME Wildcat
11. SEC., T., R., M. OR BLK. AND SURVEY OR AREA Sec. 10 T24N R9W
12. COUNTY OR PARISH San Juan
13. STATE NM
14. API NO.
15. ELEVATIONS (SHOW DF, KDB, AND WD) 6729'

NOTE: Report results of multiple completion or zone change on Form 9-330.)

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.)\*

See reverse for work performed 1-13 thru 1-15-83  
Plan to do further testing and evaluation.

**RECEIVED**  
JAN 27 1983  
OIL CON. DIV.  
DIST. 3

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_

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

SIGNED Jim L. Jacobs TITLE Geologist DATE \_\_\_\_\_

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

**RECEIVED FOR RECORD**  
JAN 24 1983  
FARMINGTON DISTRICT

\*See Instructions on Reverse Side

NMOCC

BY JL

- 1-13-83 MI & RU Hinson Service Co. Inc. T.I.H. with cross pin swab stop sub on tubing. Ran 54 jts. 1 1/4" O.D., 2.4#, J-55, CWEUE, 10 rd, condition B tubing and landed at 1750'. Rigged up to swab. Had trouble getting down. Made one run to bottom with one swab cup and without the no-go disk on the mandrel.
- 1-14-83 SITP = TSTM SICP = Zero. Fluid at ±1100'. Made 9 runs by 10:00 a.m. Had casing pressure up to 60 psi. Made 17 runs before noon. At 3:30 had made 16 more runs; casing pressure built to 270 psi and well kicked off and flowed. After 30 minutes, casing pressure 150 psi. Well slugging intermittently. At 4:30 well had logged off. Casing pressure rising. Well had made est. 3-5 BW/hr. while swabbing. Shut down rig ±4:00 p.m. Shut well in ±4:30 p.m.
- 1-15-83 SICP 230 psi Fluid at ±1050'  
At 11:00 a.m., after 16 runs, the well kicked off and flowed. Had dropped 3 soap sticks. Flowed about 30 minutes and logged off. Rigged down; moved off.

5-BLM (Farmington) 1-Harvey 1-File  
UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPPLICATE-  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

NM 9520

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  GAS WELL  OTHER

2. NAME OF OPERATOR  
Dugan Production Corp.

3. ADDRESS OF OPERATOR  
Box 208, Farmington, NM 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.  
See also space 17 below.)  
At surface

1190' FSL - 790' FEL

RECEIVED  
JAN 5 1983  
GEOLOGICAL SURVEY  
FARMINGTON, N. M.

7. UNIT AGREEMENT NAME

8. FIRM OR LEASE NAME

Elwood P. Dowd

9. WELL NO.

#1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Section 10 T24N R9W

14. PERMIT NO.

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

6729' GR

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:

TEST WATER SHUT-OFF   
FRACTURE TREAT   
SHOOT OR ACIDIZE   
REPAIR WELL   
(Other)

PULL OR ALTER CASING   
MULTIPLE COMPLETE   
ABANDON\*   
CHANGE PLANS

Additional testing

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 pertinent to this work.)\*

Request permission to do additional swab testing to further evaluate well when weather and work load permits.

RECEIVED  
JAN 20 1983  
OIL CONSERVATION DIVISION  
SANTA FE

RECEIVED  
JAN 17 1983  
OIL CON. DIV.  
DIST. 3

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

SIGNED Jim L. Jacobs

TITLE Geologist

DATE 1-4-83

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

APPROVED  
AS AMENDED

DATE  
JAN 14 1983

James F. Sims  
JAMES F. SIMS  
DISTRICT ENGINEER

\*See Instructions on Reverse Side  
NMOCC

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE\*  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

NM 9520

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Elwood P. Dowd

9. WELL NO.

#1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Section 10 T24N R9W

12. COUNTY OR PARISH 13. STATE

San Juan

NM

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR

Dugan Production Corp.

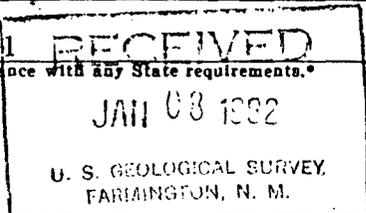
3. ADDRESS OF OPERATOR

Box 208, Farmington, NM 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)

At surface

1190' FSL - 790' FEL



14. PERMIT NO.

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

6729' GR

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

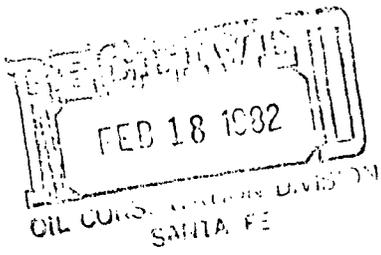
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) Request Additional Testing	

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other)	

(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.)\*

Request permission to conduct additional swabbing and evaluation. We feel that this well is capable of producing significant quantities of natural gas with more swabbing and testing.



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

SIGNED

*Sherman E. Dugan*  
Sherman E. Dugan

TITLE

Agent

DATE

1-6-82

APPROVED BY

*James F. Sims*  
James F. Sims

TITLE

For JAMES F. SIMS  
DISTRICT ENGINEER

DATE

NMOCC

\*See Instructions on Reverse Side

ak 2

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 type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. NM 9520
2. NAME OF OPERATOR Dugan Production Corp.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR Box 234, Farmington, NM 87401		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1190' FSL - 790' FEL		8. FARM OR LEASE NAME Elwood P. Dowd
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6729' GR	9. WELL NO. #1
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data		10. FIELD AND POOL, OR WILDCAT Wildcat
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.)*		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 10 T24N R9W
		12. COUNTY OR PARISH San Juan
		13. STATE NM

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 checked="" 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) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

7-30-79

Foam fraced perfs 1740-44 (8 holes) w/70 quality foam by Western Co. and Nowasco. Used 15,000# 10-20 sand, 21 gals adafoam, approx. 150 bbls wtr and 122,100 SCF of nitrogen. Min TP 2600 psi, Ave TP 2700 psi, Max TP 4000 psi. Frac screened out w/approx 7500 # sand in. Flowed well back to atmosphere. Re-started frac and completed job. Ave IR on fluid 5 B/M. ISDP 2100 psi 10 min closed in pressure 1900 psi. Opened well to atmosphere after 30 min thru 3/4" positive choke.

RECEIVED  
AUG 02 1979  
U. S. GEOLOGICAL SURVEY  
FARMINGTON, N. M.

AUG 21 1979  
8:11-79:ST. 3

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

SIGNED

*Thomas A. Dugan*  
Thomas A. Dugan

TITLE

Petroleum Engineer

DATE

8-1-79

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*Thomas A. Dugan*

\*See Instructions on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

NM 9520

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Elwood P. Dowd

9. WELL NO.

#1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Section 10 T24N R9W

12. COUNTY OR PARISH 13. STATE

San Juan

NM

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR

Dugan Production Corp.

3. ADDRESS OF OPERATOR

Box 234, Farmington, NM 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\* See also space 17 below.)  
At surface

1190' FSL - 790' FEL

14. PERMIT NO.

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

6729' GR

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)

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.)

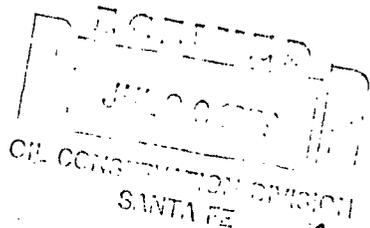
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

7-10-79

Moved in and rigged up FWS swabbing unit. Checked PBDT 2270'. Swabbed 2-7/8" csg down to 1500'. Blue Jet perf w/2 2-1/8" glass jets per foot 1740-1744'. (8 holes). Swabbed csg down. Very slight show gas ahead of swab. Let well sit 15 minutes. Not enough fluid in hole to load swab.

7-11-79

Acidized by Allied Services w/250' gals 15% HCl regular acid and 2 gals Tretolite liquid foamer followed by 11' bbls water. Average TP 400 psi @ 1-1/2 B/M.



RECEIVED JUL 13 1979



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

SIGNED

*Thomas A. Dugan*  
Thomas A. Dugan

TITLE

Petroleum Engineer

DATE

7-12-79

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

APPROVED DATE

JUL 17 1979

*James G. Lewis*  
James G. Lewis

\*See Instructions on Reverse Side

NMOCC

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE\*  
(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 type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. NM 9520
2. NAME OF OPERATOR Dugan Production Corp.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR Box 234, Farmington, NM 87401		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1190' FSL - 790' FEL		8. FARM OR LEASE NAME Elwood P. Dowd
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6729' GR	9. WELL NO. #1
		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR ARRA Section 10 T24N R9W
		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) <u>perf</u>	<input checked="" type="checkbox"/>
(Other) <input 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.)\*

6-11-79 Rigged up FWS swabbing unit. PBSD 2784'. Rigged up Blue Jet perforators and ran gamma ray correlation and collar locator log from PBSD 1700' and 1250-1050'. Swabbed well down to 2100'. Perforated zones 2602-2604, 2608-2610, 2621-2623, 2628-2632 and 2640-2644 on correlation log with 2-1/8" bi-wire glass jets, 1 SPF, total of 14 shots. Casing swabbed well dry, waited 30 mins swabbed gas ahead of large amounts of water. Well shut in.

RECEIVED  
JUN 11 1979  
OIL CONSERVATION DIVISION  
SANTA FE

RECEIVED  
JUN 15 1979  
OIL CON. COM.  
DIST. 3

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

SIGNED Thomas A. Dugan TITLE Petroleum Engineer DATE 6-12-79

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

Nymoc

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-B1424.

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.)

5. LEASE DESIGNATION AND SERIAL NO.  
NM 9520

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Elwood P. Dowd

9. WELL NO.  
#1

10. FIELD AND POOL, OR WILDCAT  
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Section 10 T24N R9W

12. COUNTY OR PARISH 13. STATE  
San Juan NM

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR  
Dugan Production Corp.

3. ADDRESS OF OPERATOR  
Box 234, Farmington, NM 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\* See also space 17 below.)  
At surface  
1190' FSL - 790' FEL

14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, CR, etc.)  
6729' GR

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) <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.)

6-06-79 Made one successful attempt to recover fish. Brought damaged tool out of hole, prepared to run csg.

Went in hole w/overshot. Circulated down over fish. Circulation stopped. Fish was stuck on bottom. Had to work free for 4'. Came out of hole w/wet string. Laying down drill pipe. Laid down overshot and fish. Rigged up csg tools.\* Ran 94 jts 2-7/8" OD 6.4# CW-55 10R NEUE tbg for csg. TE 2814.56' set @ 2814' GR. Had good circulation and reciprocated pipe while cementing. Cemented w/75 sx 65-35 w/12% gel w/1/4# flo cele per sx followed by 100 sx class "B" neat w/1/4# flo cele per sx. Total slurry 315 cu ft. Bumped plug w/1500 psi - released to 750 psi. Shut in. POB 12:00 midnite 6-5-79. WOC

RECEIVED  
JUN 19 1979  
OIL CONSERVATION DIVISION  
SANTA FE

JUN 8 - 1979  
U.S. GEOLOGICAL SURVEY

RECEIVED  
JUN 12 1979  
OIL CON. COM.  
DIST. 3  
6-7-79

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

SIGNED Thomas A. Dugan TITLE Petroleum Engineer DATE 6-7-79

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

NMOCC  
\*See Instructions on Reverse Side

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-107  
Supersedes C-128  
Effective 1-1-65

*Okal*

All distances must be from the outer boundaries of the Section.

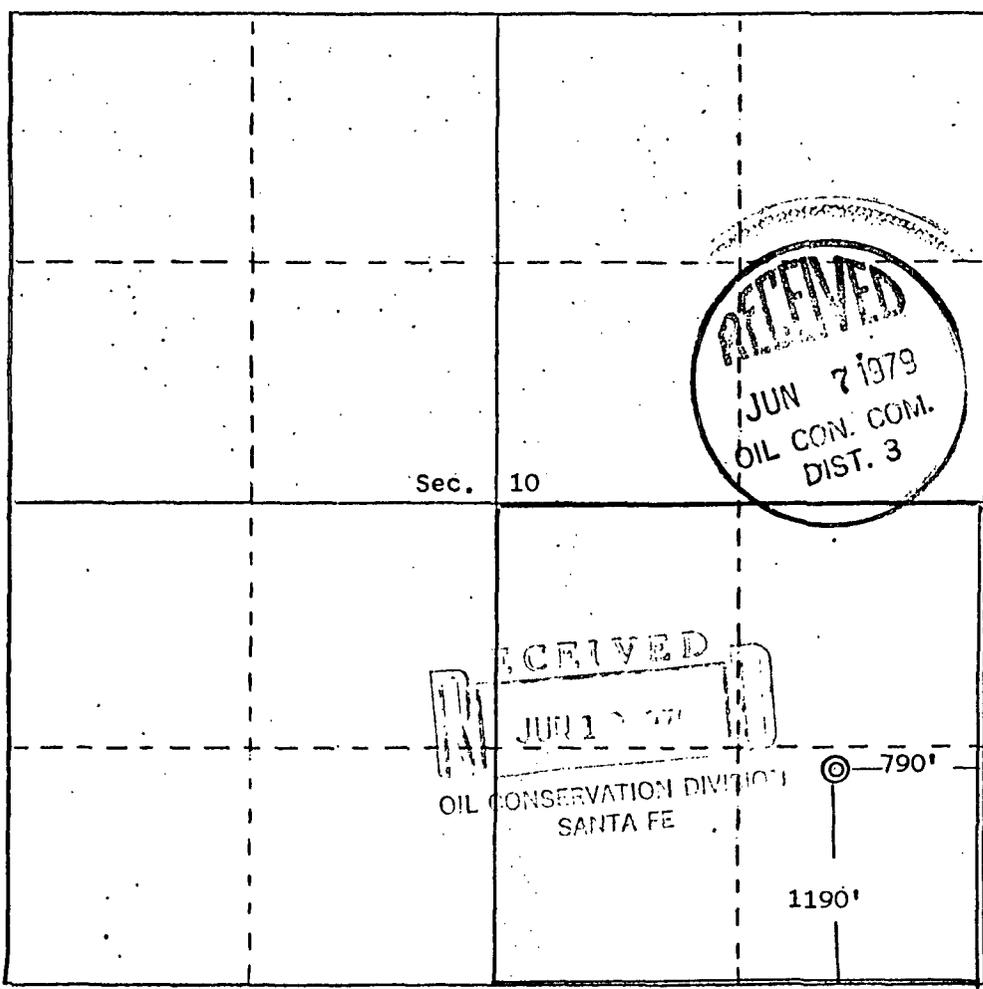
Operator <b>Dugan Production Corporation</b>		Lessee <b>Elwood P. Dowd</b>		Well No. <b>1</b>
Unit Letter <b>P</b>	Section <b>10</b>	Township <b>24 North</b>	Range <b>9 West</b>	County <b>San Juan</b>
Actual Footage Location of Well: <b>1190</b> feet from the <b>South</b> line and <b>790</b> feet from the <b>East</b> line.				
Ground Level Elev. <b>6729</b>	Producing Formation <b>Chacra</b>	Pool <b>Wildcat</b>	Dedicated Acreage: <b>160</b> Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

Yes  No If answer is "yes," type of consolidation \_\_\_\_\_

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



**CERTIFICATION**

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

*Thomas A. Dugan*  
Name **Thomas A. Dugan**

Position **President**

Company **Dugan Production Corp.**

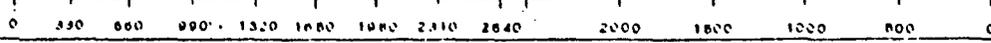
Date **6-6-79**

Date Surveyed **April 29, 1979**

Registered Professional Engineer and/or Land Surveyor

*Edgar L. Risenhoover*  
Certificate No. **5979**

**Edgar L. Risenhoover, L.S.**



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  GAS WELL  OTHER

2. NAME OF OPERATOR  
Dugan Production Corp.

3. ADDRESS OF OPERATOR  
Box 234, Farmington, NM 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface  
1190' FSL - 790' FEL

5. LEASE DESIGNATION AND SERIAL NO.  
NM-9520

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Elwood P. Dowd

9. WELL NO.  
#1

10. FIELD AND POOL, OR WILDCAT  
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Section 10 T24N R9W

12. COUNTY OR PARISH  
San Juan

13. STATE  
NM

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
6729

RECEIVED  
JUN 11 1979

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

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 checked="" type="checkbox"/>	(Other) <input 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.)\*

Plan to deepen well to 2750' to the Chacra Formation.

The casing program will remain the same as on the Intent to Drill.

RECEIVED  
JUN 4 - 1979  
U. S. GEOLOGICAL SURVEY  
FARMINGTON, N.M.

RECEIVED  
JUN 6 1979  
OIL CON. COM.

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

SIGNED Thomas A. Dugan TITLE Retroileum Engineer DATE 6-1-79

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

Okal

Yymoc

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE (Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1434.

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 [ ] GAS WELL [X] OTHER [ ]
2. NAME OF OPERATOR: Dugan Production Corp.
3. ADDRESS OF OPERATOR: Box 234, Farmington, NM 87401
4. LOCATION OF WELL: 1190' FSL - 790' FEL
15. ELEVATIONS: 6729' GR
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: TEST WATER SHUT-OFF, FRACTURE TREAT, SHOOT OR ACIDIZE, REPAIR WELL, (Other)
SUBSEQUENT REPORT OF: WATER SHUT-OFF, FRACTURE TREATMENT, SHOOTING OR ACIDIZING, (Other) surface csg and spud

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.)

5-31-79 Moved in and rigged up Wilson Drlg Co. Spudded 8-3/4" hole @ 1:00 p.m. Drlg to 69'. Ran 2 jts 7" OD 20# K-55-8R ST&C csg. TE 67.03' set @ 69' GR. Cemented to surface by Woodco. w/35 sx w/2% CaCl. POB 4:30 p.m. 5-30-79. WOC

RECEIVED JUN 7 - 1979 OIL CONSERVATION DIVISION SANTA FE

RECEIVED JUN 4 1979 OIL CON. COM. DIST. 3

RECEIVED JUN 1 1979

18. I hereby certify that the foregoing is true and correct
SIGNED: Thomas A. Dugan TITLE: Petroleum Engineer DATE: 5-31-79
APPROVED BY: CONDITIONS OF APPROVAL, IF ANY: TITLE: DATE:

NEW-MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102  
Supersedes C-128  
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

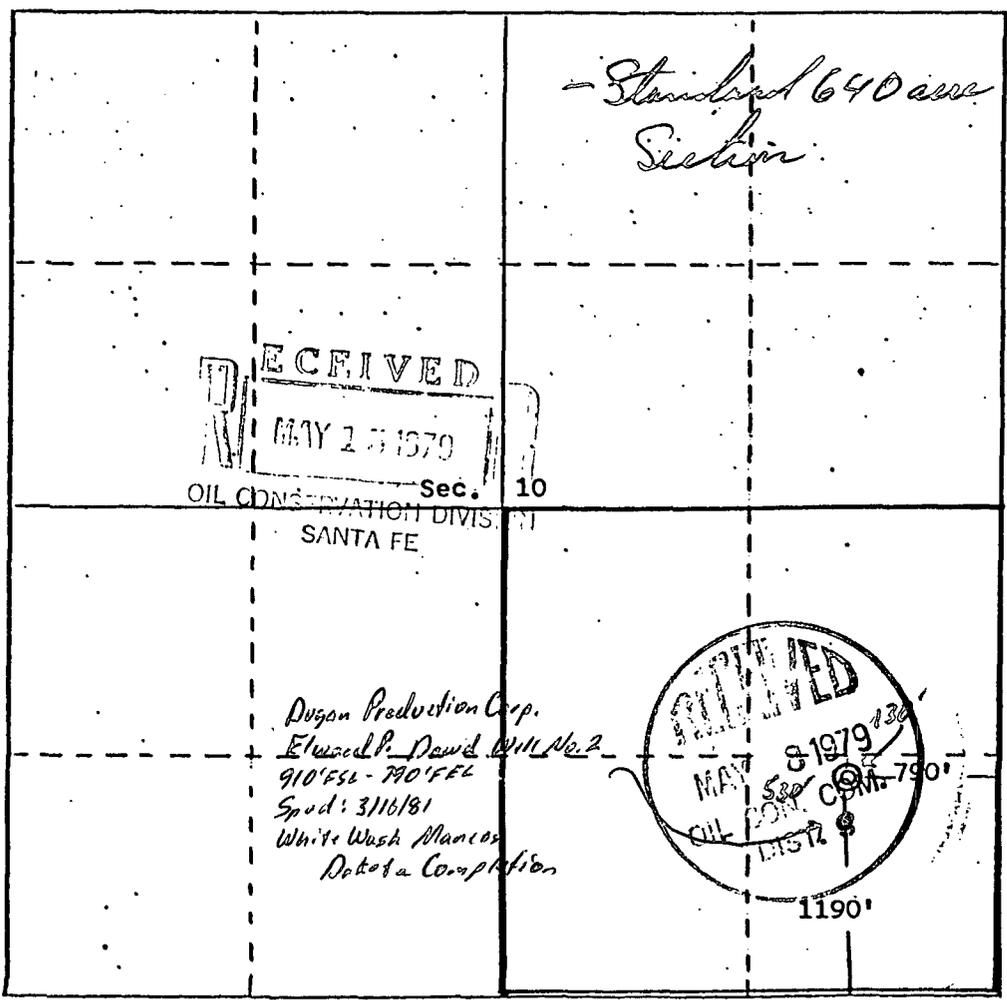
Operator <b>Dugan Production Corporation</b>		Lease <b>Elwood P. Dowd</b>		Well No. <b>1</b>
Unit Letter <b>P</b>	Section <b>10</b>	Township <b>24 North</b>	Range <b>9 West</b>	County <b>San Juan</b>
Actual Footage Location of Well: <b>1190</b> feet from the <b>South</b> line and <b>790</b> feet from the <b>East</b> line.				
Ground Level Elev. <b>6729</b>	Producing Formation <b>Pictured Cliffs</b>	Pool <b>Wildcat - PC</b>	Dedicated Acreage <b>160</b> Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

Yes  No If answer is "yes," type of consolidation \_\_\_\_\_

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



**CERTIFICATION**

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

*Richard Tully*

Name **Richard Tully**

Position **Landman**

Company **Dugan Production Corp.**

Date **5-4-79**

Date Surveyed **April 29, 1979**

Registered Professional Engineer and or Land Surveyor

*Edgar L. Risenhoover*

Certificate No. **5979**

**Edgar L. Risenhoover, L.S.**

30-045-23502

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
 DRILL       DEEPEN       PLUG BACK

b. TYPE OF WELL  
 OIL WELL       GAS WELL       OTHER       SINGLE ZONE       MULTIPLE ZONE

2. NAME OF OPERATOR  
 Dugan Production Corp.

3. ADDRESS OF OPERATOR  
 Box 234, Farmington, NM 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
 At surface      1190' FSL - 790' FEL  
 At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 2 miles southeast of Blanco Trading Post

10. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)      790'

16. NO. OF ACRES IN LEASE      320

17. NO. OF ACRES ASSIGNED TO THIS WELL      160

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.      1100'

19. PROPOSED DEPTH      1875'

20. ROTARY OR CABLE TOOLS  
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 6729' GR

22. APPROX. DATE WORK WILL START\*  
 5-30-79

5. LEASE DESIGNATION AND SERIAL NO.  
 NM 9520

6. IF INDIAN, ALLOTTER OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
 Elwood P. Dowd

9. WELL NO.  
 1

10. FIELD AND POOL, OR WILDCAT  
 Wildcat - Pictured Cliffs

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
 Section 10 T24N R9W

12. COUNTY OR PARISH      13. STATE  
 San Juan      NM

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
7-3/4"	5-1/2"	14#	40'	10 sx
4-3/4"	2-7/8"	6.4#	1875'	100 sx

Plan to drill 4-3/4" hole with air or minimum mud to 1400' to test Pictured Cliffs formation. If productive, plan to set 2-7/8" tbg for csg, selectively perforate, frac, cleanout after frac, run 1-1/4" tbg and complete well.

Do not plan to have blowout preventer on well while drilling. Will install master valve and stripper head while completing.

MAY 15 1979  
 OIL CONSERVATION DIVISION  
 SANTA FE  
*gas not dedicated*

RECEIVED  
 MAY 7 - 1979  
 U. S. GEOLOGICAL SURVEY  
 FARMINGTON, N. M.

RECEIVED  
 MAY 8 1979  
 OIL CON. COM  
 DIST. 3

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Richard Tully TITLE Landman DATE 5-4-79

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

*ok Ewh*

\*See Instructions On Reverse Side

*NMLCC*

BEFORE THE OIL CONSERVATION COMMISSION  
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING  
CALLED BY THE OIL CONSERVATION  
COMMISSION OF NEW MEXICO FOR  
THE PURPOSE OF CONSIDERING:

CASE NO. 5693  
Order No. R-5359

APPLICATION OF JEROME P. MCHUGH  
FOR DOWNHOLE COMMINGLING,  
SAN JUAN COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on June 9, 1976,  
at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 25th day of January, 1977, the Commission,  
a quorum being present, having considered the testimony, the  
record, and the recommendations of the Examiner, and being  
fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by  
law, the Commission has jurisdiction of this cause and the  
subject matter thereof.

(2) That the applicant, Jerome P. McHugh, seeks an order  
authorizing the downhole commingling of Fruitland and Pictured  
Cliffs production in the well-bores of wells drilled anywhere  
within Townships 24 North through 28 North, Ranges 24 West  
through 28 West, NMPM, San Juan County, New Mexico, except that  
said commingling authority would not apply to lands included  
within the horizontal boundaries, as defined by the Commission,  
of that portion of the Ballard-Pictured Cliffs Pool, the Fulcher-  
Kutz Pictured Cliffs Pool or the West Kutz-Pictured Cliffs Pool  
lying within the above described townships and ranges, nor to  
lands not within the horizontal boundaries of said pools but  
within the horizontal boundaries of the Gallegos Canyon Unit  
Area.

(3) That in portions of the area sought by applicant to  
be authorized for downhole commingling of Fruitland and Pictured  
Cliffs production, there appear to be marginal reserves of

hydrocarbon gas present in said formations; and that development of said reserves by production through single completions or even by dual completions in said formations is uneconomic.

(4) That in portions of the area sought by applicant to be authorized for downhole commingling of Fruitland and Pictured Cliffs production, reservoir pressures in said formations appear to be virtually equal, and differential pressures between the formations of negligible magnitude.

(5) That in the aforesaid areas of marginal reserves and virtually equal pressures, the downhole commingling of Fruitland and Pictured Cliffs production should result in the recovery of otherwise unrecoverable reserves of natural gas, and should be permitted through administrative approval by the Secretary-Director of the Commission upon a showing that a well is of low marginal productive capacity from both the Fruitland and Pictured Cliffs formations and that there is no substantial difference in the reservoir pressures of the two formations.

(6) That of the lands sought by applicant for approval for downhole commingling of the Fruitland and Pictured Cliffs formations, it appears that the following described lands in San Juan County, New Mexico, meet the prerequisite conditions outlined in Findings Nos. (3) through (5) above, and should be authorized for administrative approval of such commingling:

TOWNSHIP 24 NORTH, RANGE 9 WEST, NMPM  
Sections 1 through 5: All  
Sections 10 through 14: All  
Section 24: All

TOWNSHIP 25 NORTH, RANGE 9 WEST, NMPM  
Sections 2 through 36: All

TOWNSHIP 25 NORTH, RANGE 10 WEST, NMPM  
Sections 1 through 18: All  
Sections 20 through 27: All  
Section 36: All

TOWNSHIP 25 NORTH, RANGE 11 WEST, NMPM  
Sections 1 through 6: All  
Section 7: N/2  
Sections 8 through 13: All  
Section 14: N/2  
Section 15: N/2

TOWNSHIP 25 NORTH, RANGE 12 WEST, NMPM

Sections 1 and 2: All  
Section 3: N/2  
Section 4: N/2  
Section 12: N/2

TOWNSHIP 26 NORTH, RANGE 9 WEST, NMPM

Section 19: All  
Section 28: SW/4  
Section 29: S/2  
Sections 30 through 33: All

TOWNSHIP 26 NORTH, RANGE 10 WEST, NMPM

Sections 19 through 36: All

TOWNSHIP 26 NORTH, RANGE 11 WEST, NMPM

Sections 5 through 8: All  
Sections 13 through 36: All

TOWNSHIP 26 NORTH, RANGE 12 WEST, NMPM

Sections 1 through 30: All  
Section 31: N/2  
Sections 32 through 36: All

TOWNSHIP 26 NORTH, RANGE 13 WEST, NMPM

Sections 1 through 17: All  
Section 18: N/2  
Section 21: N/2  
Sections 22 through 25: All  
Section 26: N/2

TOWNSHIP 26 NORTH, RANGE 14 WEST, NMPM

Sections 1 through 3: All  
Sections 11 and 12: All

TOWNSHIP 27 NORTH, RANGE 11 WEST, NMPM

Section 31: W/2

TOWNSHIP 27 NORTH, RANGE 12 WEST, NMPM

Section 17: S/2  
Sections 18 through 21: All  
Section 22: W/2  
Section 25: W/2  
Sections 26 through 36: All

TOWNSHIP 27 NORTH, RANGE 13 WEST, NMPM

Sections 4 through 11: All  
Sections 13 through 36: All

TOWNSHIP 27 NORTH, RANGE 14 WEST, NMPM

Sections 1 through 29: All  
Sections 33 through 36: All

TOWNSHIP 27 NORTH, RANGE 15 WEST, NMPM

Sections 1 through 3: All  
Sections 11 through 13: All

TOWNSHIP 28 NORTH, RANGE 13 WEST, NMPM

Partial Sections 7 and 8: All  
Sections 17 through 20: All  
Section 28: S/2  
Sections 29 through 33: All

TOWNSHIP 28 NORTH, RANGE 14 WEST, NMPM

Partial Sections 7 through 12: All  
Sections 13 through 36: All

TOWNSHIP 28 NORTH, RANGE 15 WEST, NMPM

Partial Sections 7 through 12: All  
Sections 13 through 29: All  
Sections 33 through 36: All

(7) That adoption of an administrative procedure for the approval of downhole commingling of Fruitland and Pictured Cliffs production in the above described area under the conditions outlined in Findings Nos. (3) through (5) above, should result in the recovery of otherwise unrecoverable hydrocarbons thereby preventing waste, will not impair correlative rights, and should be approved.

IT IS THEREFORE ORDERED:

(1) That the Secretary-Director of the Commission is hereby authorized to approve commingling of Fruitland and Pictured Cliffs production in the wellbore of any well drilled in the following described area in San Juan County, New Mexico:

TOWNSHIP 24 NORTH, RANGE 9 WEST, NMPM

Sections 1 through 5: All  
Sections 10 through 14: All  
Section 24: All

TOWNSHIP 25 NORTH, RANGE 9 WEST, NMPM

Sections 2 through 36: All

TOWNSHIP 25 NORTH, RANGE 10 WEST, NMPM

Sections 1 through 18: All  
Sections 20 through 27: All  
Section 36: All

TOWNSHIP 25 NORTH, RANGE 11 WEST, NMPM

Sections 1 through 6: All  
Section 7: N/2  
Sections 8 through 13: All  
Section 14: N/2  
Section 15: N/2

TOWNSHIP 25 NORTH, RANGE 12 WEST, NMPM

Sections 1 and 2: All  
Section 3: N/2  
Section 4: N/2  
Section 12: N/2

TOWNSHIP 26 NORTH, RANGE 9 WEST, NMPM

Section 19: All  
Section 28: SW/4  
Section 29: S/2  
Sections 30 through 33: All

TOWNSHIP 26 NORTH, RANGE 10 WEST, NMPM

Sections 19 through 36: All

TOWNSHIP 26 NORTH, RANGE 11 WEST, NMPM

Sections 5 through 8: All  
Section 13 through 36: All

TOWNSHIP 26 NORTH, RANGE 12 WEST, NMPM

Sections 1 through 30: All  
Section 31: N/2  
Sections 32 through 36: All

TOWNSHIP 26 NORTH, RANGE 13 WEST, NMPM

Sections 1 through 17: All  
Section 18: N/2  
Section 21: N/2  
Sections 22 through 25: All  
Section 26: N/2

TOWNSHIP 26 NORTH, RANGE 14 WEST, NMPM

Sections 1 through 3: All  
Sections 11 and 12: All

TOWNSHIP 27 NORTH, RANGE 11 WEST, NMPM

Section 31: W/2

TOWNSHIP 27 NORTH, RANGE 12 WEST, NMPM

Section 17: S/2  
Sections 18 through 21: All  
Section 22: W/2  
Section 25: W/2  
Sections 26 through 36: All

TOWNSHIP 27 NORTH, RANGE 13 WEST, NMPM

Sections 4 through 11: All  
Sections 13 through 36: All

TOWNSHIP 27 NORTH, RANGE 14 WEST, NMPM

Sections 1 through 29: All  
Sections 33 through 36: All

TOWNSHIP 27 NORTH, RANGE 15 WEST, NMPM

Sections 1 through 3: All  
Sections 11 through 13: All

TOWNSHIP 28 NORTH, RANGE 13 WEST, NMPM

Partial Sections 7 and 8: All  
Sections 17 through 20: All  
Section 28: S/2  
Sections 29 through 33: All

TOWNSHIP 28 NORTH, RANGE 14 WEST, NMPM

Partial Sections 7 through 12: All  
Sections 13 through 36: All

TOWNSHIP 28 NORTH, RANGE 15 WEST, NMPM

Partial Sections 7 through 12: All  
Sections 13 through 29: All  
Sections 33 through 36: All

(2) That to obtain approval for the downhole commingling of Fruitland and Pictured Cliffs production in the wellbore of any well completed in the aforescribed area, the operator of said well shall file one copy of the request for such approval with the Secretary-Director of the Commission and one copy with the Supervisor of the Commission District Office at Aztec. Such request shall contain evidence as to the productivity or expected productivity of each of the aforesaid formations proposed to be commingled, as well as reservoir pressures encountered or expected to be encountered. In addition, data shall be submitted which will enable the Secretary-Director to prescribe an allocation formula for allocating production to each of the formations to be commingled.

(3) The Secretary-Director of the Commission shall have authority to rescind downhole commingling authority granted for any well prior to its completion if data available upon completion of the well indicates greater than marginal production from either or both of the commingled formations or a pressure differential between the commingled formations which might cause waste.

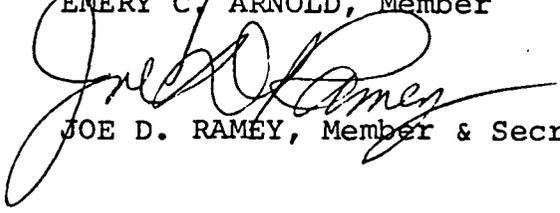
(4) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION

PHIL R. LUCERO, Chairman

  
EMERY C. ARNOLD, Member

  
JOE D. RAMEY, Member & Secretary

S E A L

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