

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK <b>DRILL</b> <input checked="" type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. NM 93774		
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE SOLE <input checked="" type="checkbox"/> MULTIPLE SOLE <input type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
2. NAME OF OPERATOR DUGAN PRODUCTION CORP. 6515			7. UNIT AGREEMENT NAME		
3. ADDRESS AND TELEPHONE NO. P.O. Box 420, Farmington, NM 87499			8. FARM OR LEASE NAME, WELL NO. Angels Gate #90 19286		
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 1340' FNL & 1400' FEL (SW/4 NE/4) At proposed prod. zone			9. AP WELL NO. 30-045-29394		
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* approx. 4 miles NE of Nageezi Trading Post, NM			10. FIELD AND POOL, OR WILDCAT Basin Fruitland Coal		
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 1240'			11. SEC., T., R., N., OR S.E. AND SURVEY OR AREA Unit G, Sec. 21, T24N, R8W		
16. NO. OF ACRES IN LEASE 160			12. COUNTY OR PARISH 13. STATE San Juan NM		
17. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. N/A			14. NO. OF ACRES ASSIGNED TO THIS WELL 320		
18. PROPOSED DEPTH 2000'			15. ROTARY OR CABLE TOOLS Rotary		
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6850' (est) GL			22. APPROX. DATE WORK WILL START* ASAP		

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
9-7/8"	7"	20#	120'	50 sx (59 cu.ft.) circ. to surf.
6-1/4"	4 1/2"	10.5#	2000'	220 sx (399 cu.ft.) circ. to surf.

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4.

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"

Plan to drill a 9-7/8" hole and set 120' of 7" OD, 20#, J-55 surface casing; then plan to drill a 6-1/4" hole to total depth with gel-water-mud program to test the Fruitland Coal formation. Plan to run IES and CDL logs. If determined productive, will run 4 1/2", 10.5#, J-55 casing, selectively perforate, frac, clean out after frac and complete well.

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DIST. 3

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, 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.

34.

SIGNED Sherman E. Dugan TITLE Vice-President DATE 3/2/95  
(This space for Federal or State office use)

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

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
CONDITIONS OF APPROVAL, IF ANY:

NMOCU

AS AMENDED

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE JUL 22 1996

\*See Instructions On Reverse Side

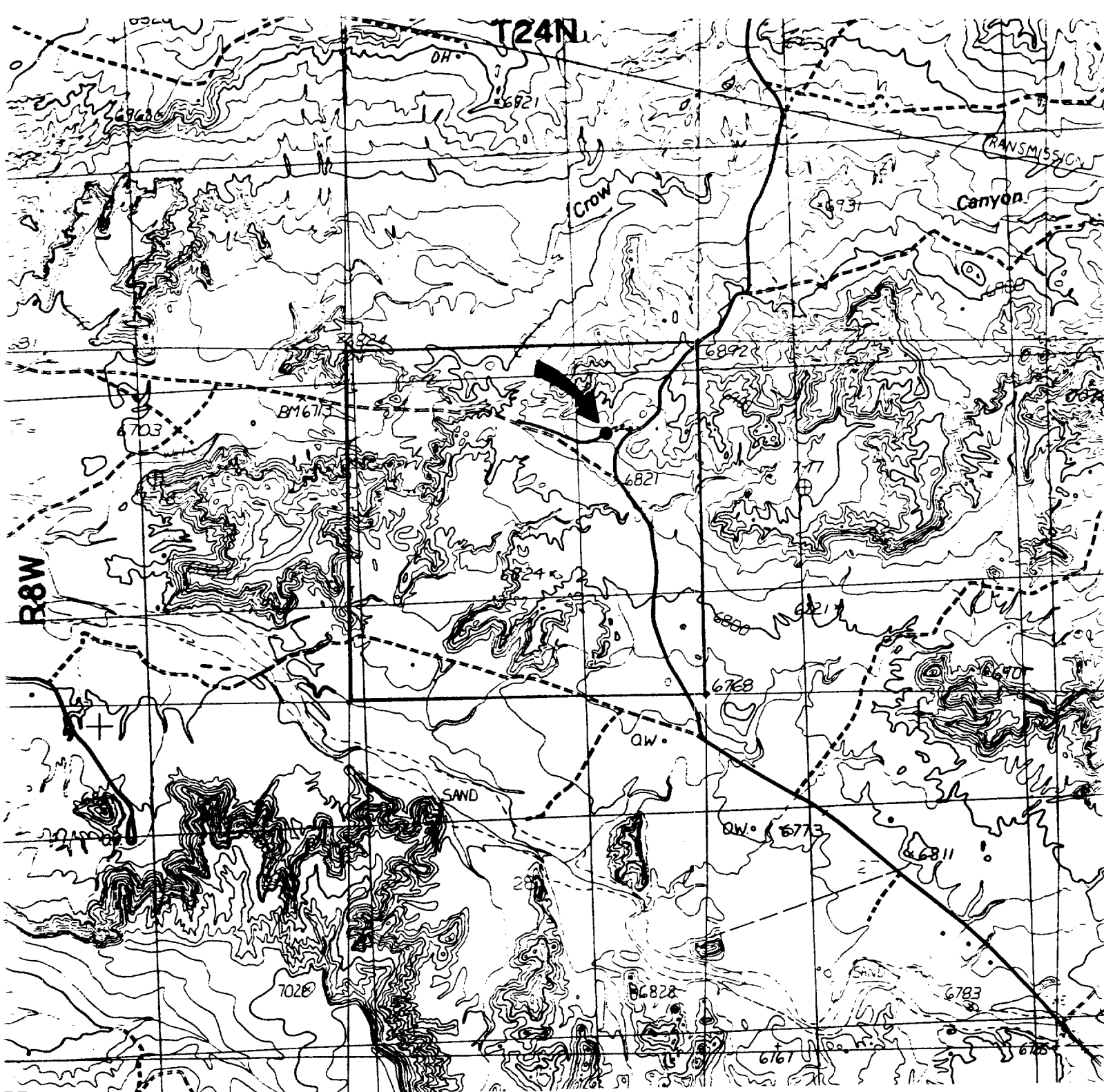
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

DISTRICT MANAGER

Form C-102  
Revised February 21, 1994  
Instructions on back  
Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

**Submit to Appropriate District Office**  
**State Lease - 4 Copies**  
**Fee Lease - 3 Copies**

<p>16</p>		<p><b>17 OPERATOR CERTIFICATION</b></p> <p><i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</i></p> <p><i>Sherman E. Dugan</i>  Signature  Sherman E. Dugan  Printed Name  Vice-President  Title  3/2/95  Date</p>
<p>Section 21</p> <p><b>RECEIVED</b>  JUL 24 1996  OIL CON. DIV.  DIST. 3</p>	<p>Dugan Prod.  NM-93451</p>	<p><b>18 SURVEYOR CERTIFICATION</b></p> <p><i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i></p> <p>December 19, 1994  Date of Survey  Signature and Seal of Professional Surveyer:   Certificate Number: 5979-2000</p>



### Existing Roads

### Exhibit E

Vicinity of nearest town or reference pt.  
approx. 4 miles NE of Nageezi Trading Post

Type of surface dirt

Conditions good

Other \_\_\_\_\_

Reference map: USGS map

Crow Mesa West, NM

### Planned Access Road(s)

### Exhibit E

Width 20' Maximum grades 5%

Drainage design as required

Cuts & Fills as required

Surfacing material none

☒ Turnouts

☒ Waterbars

☒ Culverts

☒ Gates

☒ Cattleguards

☒ Fence cuts

Access Road &  
Pipeline

Access road(s) ☒ do not cross Fed/ ☒ land.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Dugan Production Corp.

3. Address and Telephone No.

P.O. Box 420, Farmington, NM 87499 (505) 325-1821

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1340' FNL & 1400' FEL (Unit G)  
Sec. 21, T24N, R8W

5. Lease Designation and Serial No.

NM 93774

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Angels Gate #90

9. API Well No.

10. Field and Pool, or Exploratory Area

Basin Fruitland Coal

11. County or Parish, State

San Juan, New Mexico

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other ADDITIONAL APD INFO  
☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completions on Well Completion or Recompletion Report and Log form.)

13. 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.)\*

Additional information for APD, as requested by Errol Becher on March 10, 1995:

- 1.) The anticipated bottom hole pressure for this well is estimated to be approximately 800 psi.
- 2.) The average mud weight is anticipated to be in the range of 8.6 to 9.5 lb/gal.

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JUL 24 1995  
OIL & GAS DIV.  
L-1003

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

Signed

Title Geologist

Date 3-14-95

(This space for Federal or State office use)

Approved by \_\_\_\_\_  
Conditions of approval, if any:

Title \_\_\_\_\_

APPROVED  
AS AMENDED

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\*See Instruction on Reverse Side

34000

APR 12 1995  
DISTRICT MANAGER

Form 3160-5  
(June 1990)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 19933. Lease Designation and Serial No.  
NM 93774

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- ☐
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(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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Recently measured pressure data is as follows:

Bowers #90	SE/4 Sec. 17, T24N, R8W	430 psi
Supai Point #90	NE/4 Sec. 20, T24N, R8W	360 psi
Sapp #93	NE/4 Sec. 28, T24N, R8W	270 psi
Sapp #91	SE/4 Sec. 29, T24N, R8W	420 psi

It is requested to amend the bottom hole pressure stated in the APD to 480 psi.

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DIST. 3

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

Signed [Signature]  
(This space for Federal or State office use)

Title Operations Manager, P.E.

Date 7/22/96

Approved by \_\_\_\_\_  
Conditions of approval, if any:

Title

NMOCD

APPROVED  
Date

JUL 22 1996

DISTRICT MANAGER

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