

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-045-22969

5. LEASE DESIGNATION AND SERIAL NO.
NM 0499348

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
FAF

9. WELL NO.
#4

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

11. SEC., T., R., M., OR BLK.
AND SURVEY OR AREA
Sec 30, T27N, R13W

12. COUNTY OR PARISH
San Juan

13. STATE
NM

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 1850' FSL - 2000' FWL
At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
14 miles south Farmington, NM

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 258'

16. NO. OF ACRES IN LEASE 585.12

17. NO. OF ACRES ASSIGNED TO THIS WELL 185.44

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1/2 mile approx.

19. PROPOSED DEPTH 1430'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6116' GR

22. APPROX. DATE WORK WILL START* 7-19-78

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
6-1/4"	5-1/2"	14#	30'	5 SX
4-3/4"	2-7/8"	6.4#	1430'	75 SX

Plan to drill 4-3/4" hole with air or minimum mud to 1430' to test Pictured Cliffs formation.

Do not plan to have blowout preventer on well while drilling. Master valve and stripper head will be installed while completing.

NMERB Requirement: Gas Not Dedicated.

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 Thomas A. Dugan TITLE Petroleum Engineer DATE 3-22-78
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

Okai

**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.

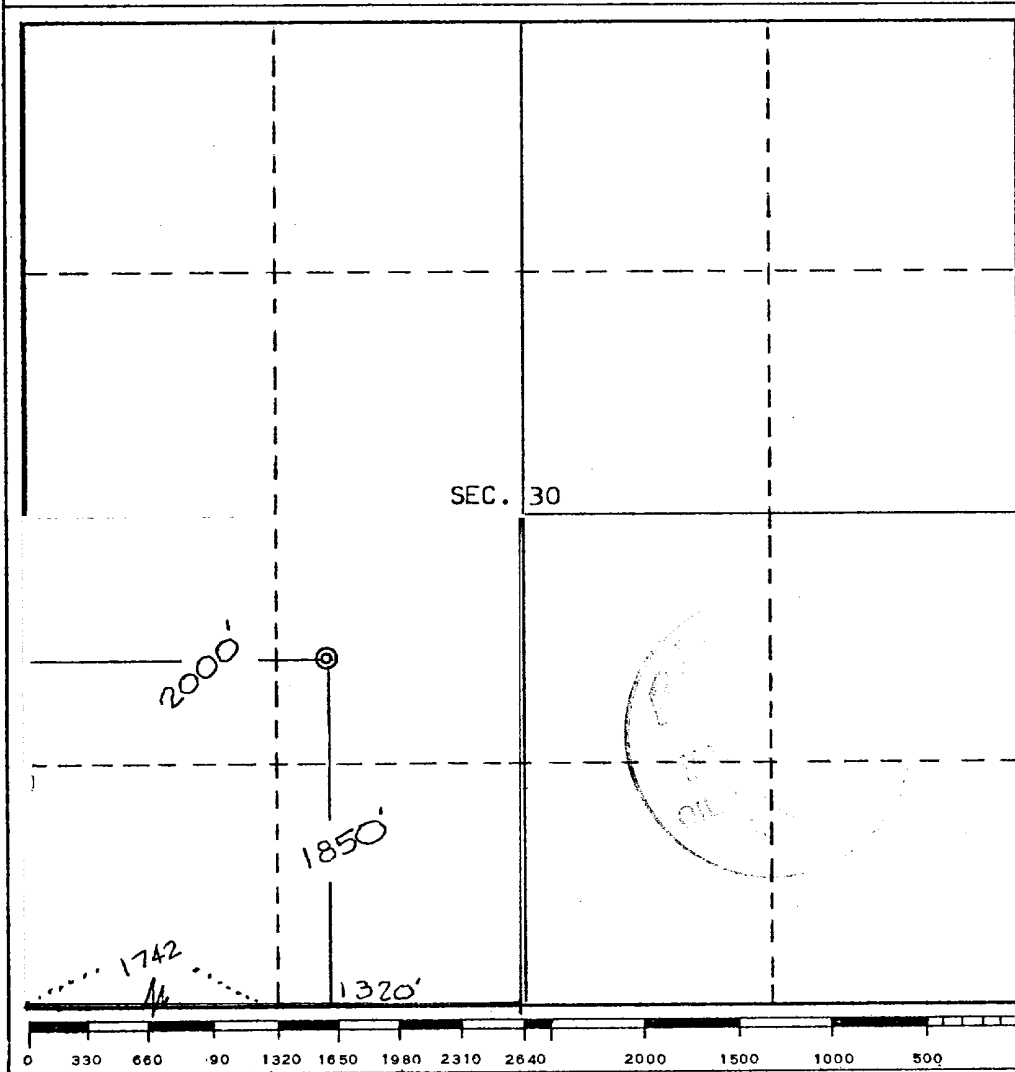
Operator Dugan Production Corporation			Lease FAF		Well No. 4
Unit Letter K	Section 30	Township 27 North	Range 13 West	County San Juan	
Actual Footage Location of Well: 1850 feet from the South line and 2000 feet from the West line					
Ground Level Elev. 6154	Producing Formation Pictured Cliffs		Pool WAW	Dedicated Acreage: 185.44 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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 Plan to communitize

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 **Petroleum Engineer**
Company **Dugan Production Corp.**
Date **3-22-78**

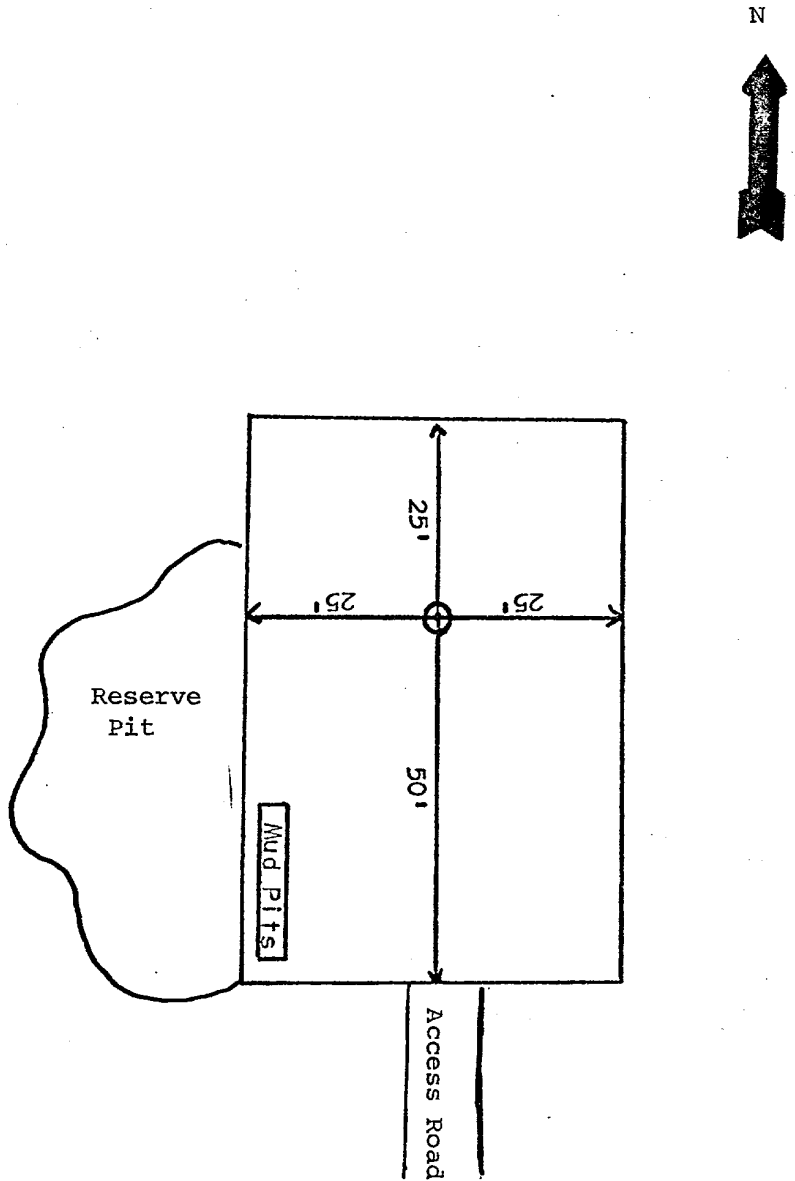
REGISTERED LAND SURVEYOR
Reg. No. 3602
E.V. ECHOHAWK
WEST V. ECHOHAWK

Date Surveyed **March 13, 1978**
Registered Professional Engineer and/or Land Surveyor
E.V. Echohawk
Certificate No. **3602**
E.V. Echohawk LS

Dugan Production Corp.

FAF #4

Proposed Location Layout



DEVELOPMENT PLAN

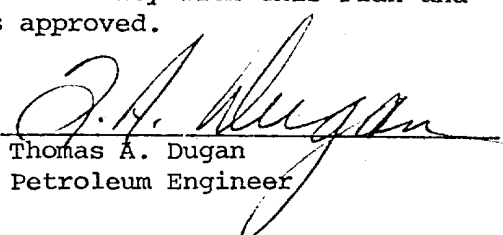
Dugan Production Corp.

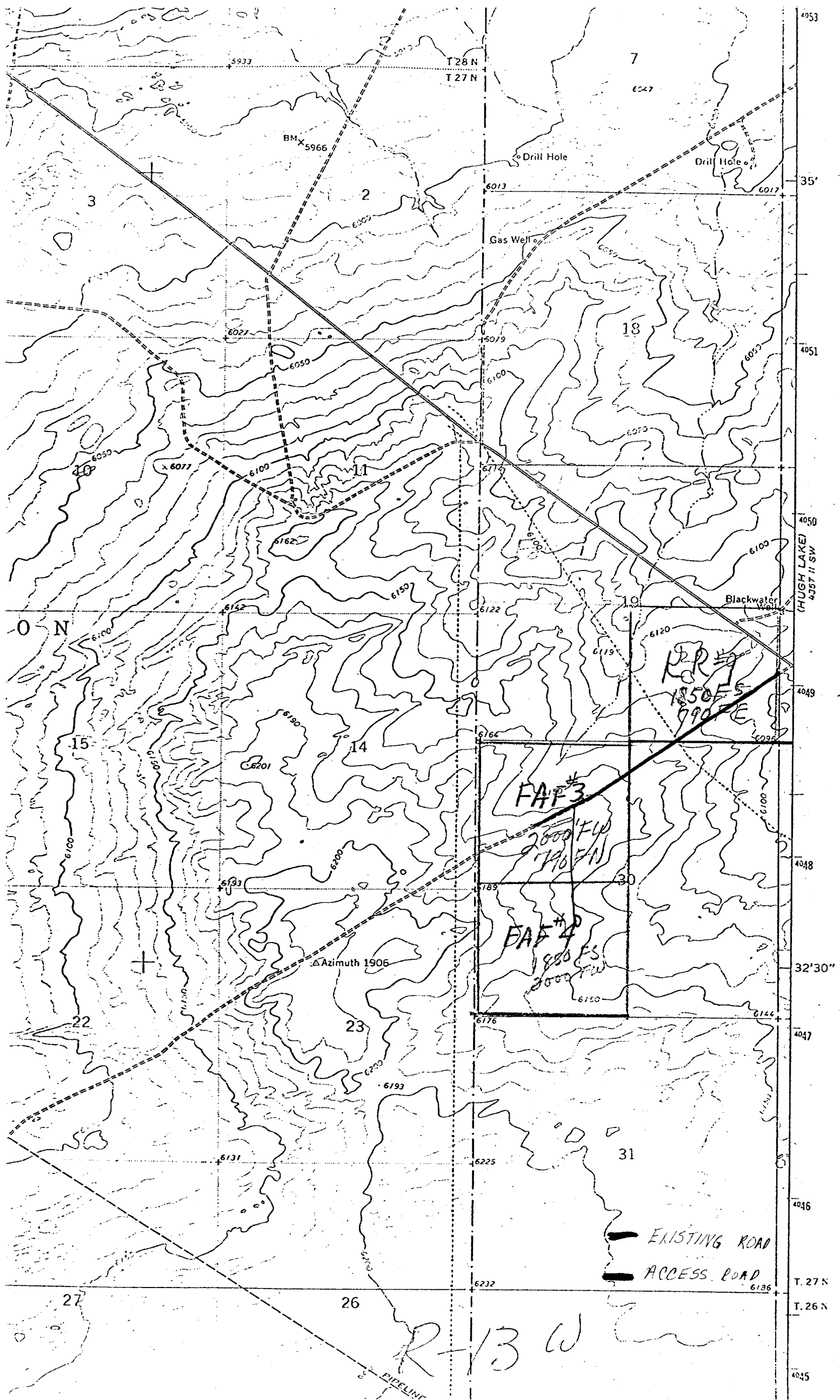
FAF #4

1. Existing roads and existing wells are shown on attached plat.
2. Planned access from existing road approximately 2000' to new location. Will leave natural grass and small vegetation on roadway. Will remove large brush or trees from road. Do not plan to make road grade or bar ditches. Will bottom-out any arroyo we cross and not install culverts.
3. Location of well: 1850' FSL - 2000' FWL
Section 30, T27N, R13W
San Juan County, NM
4. One additional well(s) planned on this lease at this time.
5. Separator and flow line will be located within 50' of wellhead.
6. Water will be secured from San Juan River.
7. Waste materials will be buried on location or in reserve pit.
8. No permanent camp is planned; trailer house will be used on location while drilling.
9. Do not plan to build airstrip.
10. See attached plat for proposed location layout.
11. A general description of the topography, soil characteristics, geologic features, flora and fauna; other surface-use activities and surface ownership of involved lands, proximity of water, occupied dwellings, archeological, historical or cultural sites can be found in the archeologist's report.
12. Geologic name of surface formation: Recent Blow Sand
13. Estimated tops of important geologic markers:
Kirtland 67' Fruitland 900' Pictured Cliffs 1338'
14. Estimated depths of anticipated water, oil, gas, or other mineral bearing formations which are expected to be encountered: Pictured Cliffs - Gas
15. We do not anticipate to encounter any abnormal pressures or temperatures or any potential hazards such as those associated with hydrogen sulfide.
16. Will clean up location, fill and level pits, level ruts in road, reseed location and road with Seed Mixture #2 and paint equipment with Sandstone Brown.
17. Operator's Representative:
Thomas A. Dugan
Box 234
Farmington, NM 87401
18. Certification: The following statement must be signed by the lessee's or operator's field representative who is identified in Item #17 of the Plan:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this Plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Dugan Production Corp. and its contractors and subcontractors in conformity with this Plan and the terms and conditions under which it is approved.

Date: 3-22-78


Thomas A. Dugan
Petroleum Engineer



STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION
1000 Rio Brazos Road
Aztec, New Mexico 87410

April 4, 1978

Dugan Production Corp.
Box 234
Farmington, New Mexico

Attention: _____

SUBJECT: NON-STANDARD GAS PRORATION UNIT CONSISTING OF 185.44 ACRES
IN THE Waw Pictured Cliffs Ext. GAS POOL DESCRIBED AS
FOLLOWS:

TOWNSHIP 27 NORTH, RANGE 13 WEST, NMPM

SECTION: 30 SW/4

By authority granted me by Rule 5(B) of Order No. R-1670, as amended, the
above-described acreage has been approved as a non-standard gas proration
unit to be dedicated to the FAF
Well No. 4, located 1850/S; 2000/W of said
Section 30.

AR Hendrick
District Supervisor
District #3

cc: Oil Conservation Commission
Santa Fe, New Mexico