

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-045-2276
5. LEASE DESIGNATION AND SERIAL NO.

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

nm10561
6. IF INDIAN, ALLOTTEE OR TRIBE NAME

2. NAME OF OPERATOR
Dugan Production Corp.

7. UNIT AGREEMENT NAME

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

8. FARM OR LEASE NAME
Big Field

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

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
Basin Dakota

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec 10, T30N, R14

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
7 miles northwest of Farmington, New Mexico

12. COUNTY OR PARISH
San Juan

13. STATE
NM

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

16. NO. OF ACRES IN LEASE
1397.16

17. NO. OF ACRES ASSIGNED TO THIS WELL
320

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. None

19. PROPOSED DEPTH
6600'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
6143' GR

22. APPROX. DATE WORK WILL START*
10-30-77

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/2"	8-5/8"	24#	180'	150 sx
7-7/8"	4-1/2"	10.5#	6600'	800 sx in two stages

Plan to drill with mud to test Dakota Formation. If productive, will set 4-1/2" casing thru Dakota formation, selectively perforate, frac, clean out after frac, run 1-1/4" tubing, and complete well.

Plan to use BOP furnished by rig while drilling (10" 3000 psi hydraulic).

Plan to use BOP rental while completing (6" 3000 psi double gate manual).

NMERB Requirement: Gas is 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 10-5-77

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE 10 6 1977

CONDITIONS OF APPROVAL, IF ANY:

OKaf

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.

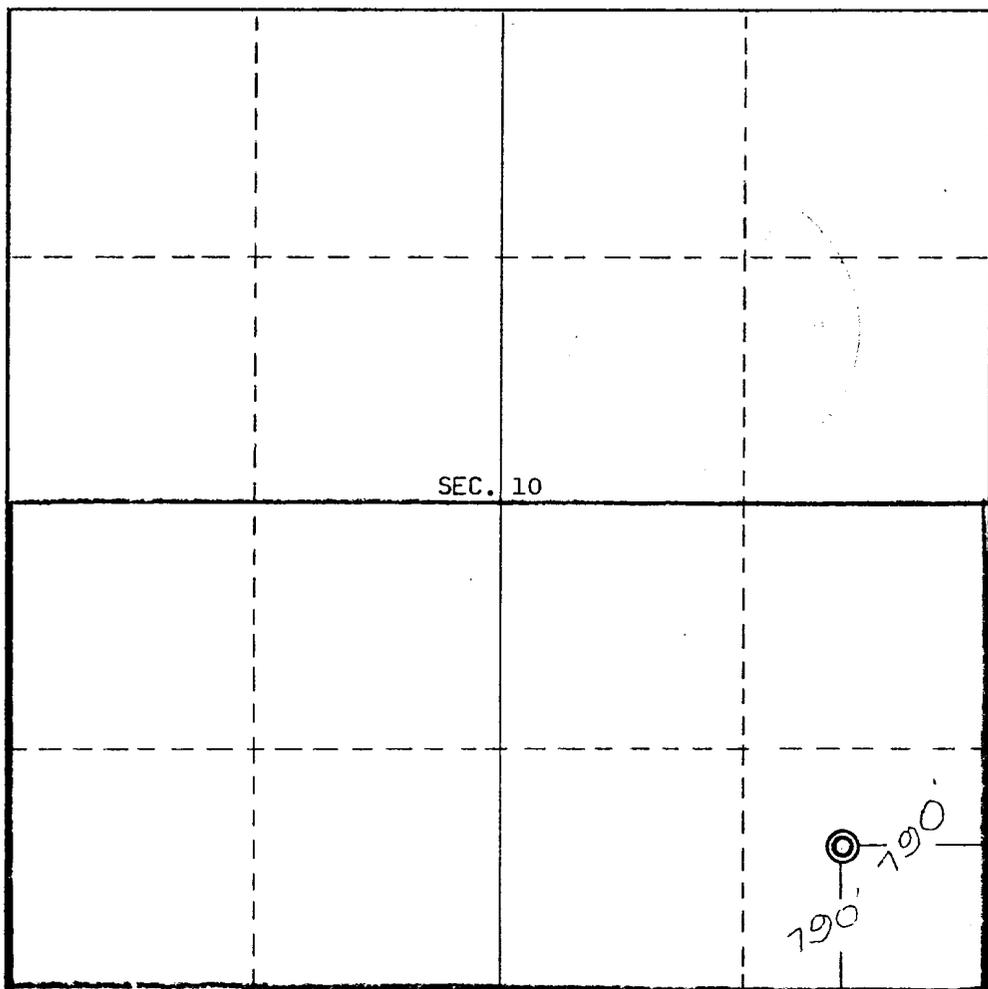
Operator Dugan Production Corporation			Lease Big Field			Well No. 1		
Unit Letter P	Section 10	Township 30 North	Range 14 West	County San Juan				
Actual Footage Location of Well: 790 feet from the South line and 790 feet from the East line								
Ground Level Elev. 6143	Producing Formation Dakota		Pool Basin			Dedicated Acreage: 5/320 Acres		

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 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.



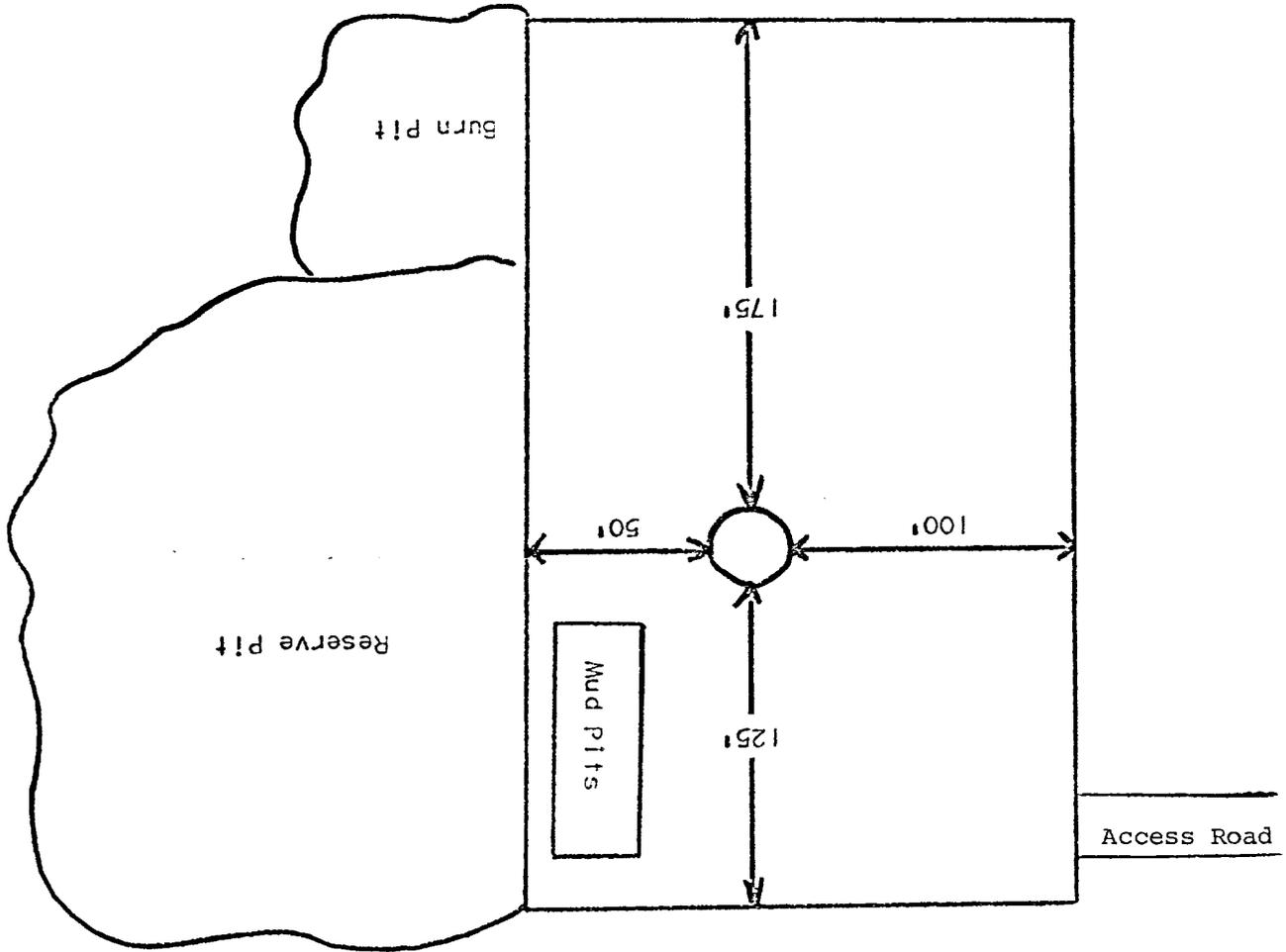
CERTIFICATION	
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.	
Name	<i>Thomas A. Dugan</i>
Position	Petroleum Engineer
Company	Dugan Production Corp.
Date	10-5-77
<p>I hereby certify that the well location shown on this plat was plotted from field notes of 3802 surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.</p> <p style="text-align: center;">ERNEST V. ECHOHAWK</p>	
Date Surveyed	May 9, 1977
Registered Professional Engineer and/or Land Surveyor	
<i>E.V. Echoshawk</i>	
Certificate No.	3602
E.V. Echoshawk LS	



Dugan Production Corp.

Big Field #1

Proposed Location Layout



DEVELOPMENT PLAN

Dugan Production Corp.

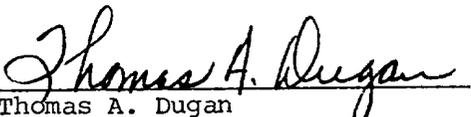
Big Field #1

1. Existing roads are shown on attached plat.
2. Planned access from existing road approximately _____ 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: 790' FSL 790' FEL
Section 10, T30N, R14W
San Juan County, New Mexico
4. No 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. Will clean up location, fill and level pits, level ruts in road, reseed location and road with Seed Mixture #2 and paint equipment with #34127.
Pinon Juniper Green
12. Operator's Representative:
Thomas A. Dugan
Box 234
Farmington, New Mexico 87401
13. Certification: The following statement must be signed by the lessee's or operator's field representative who is identified in Item #12 of the Plan:

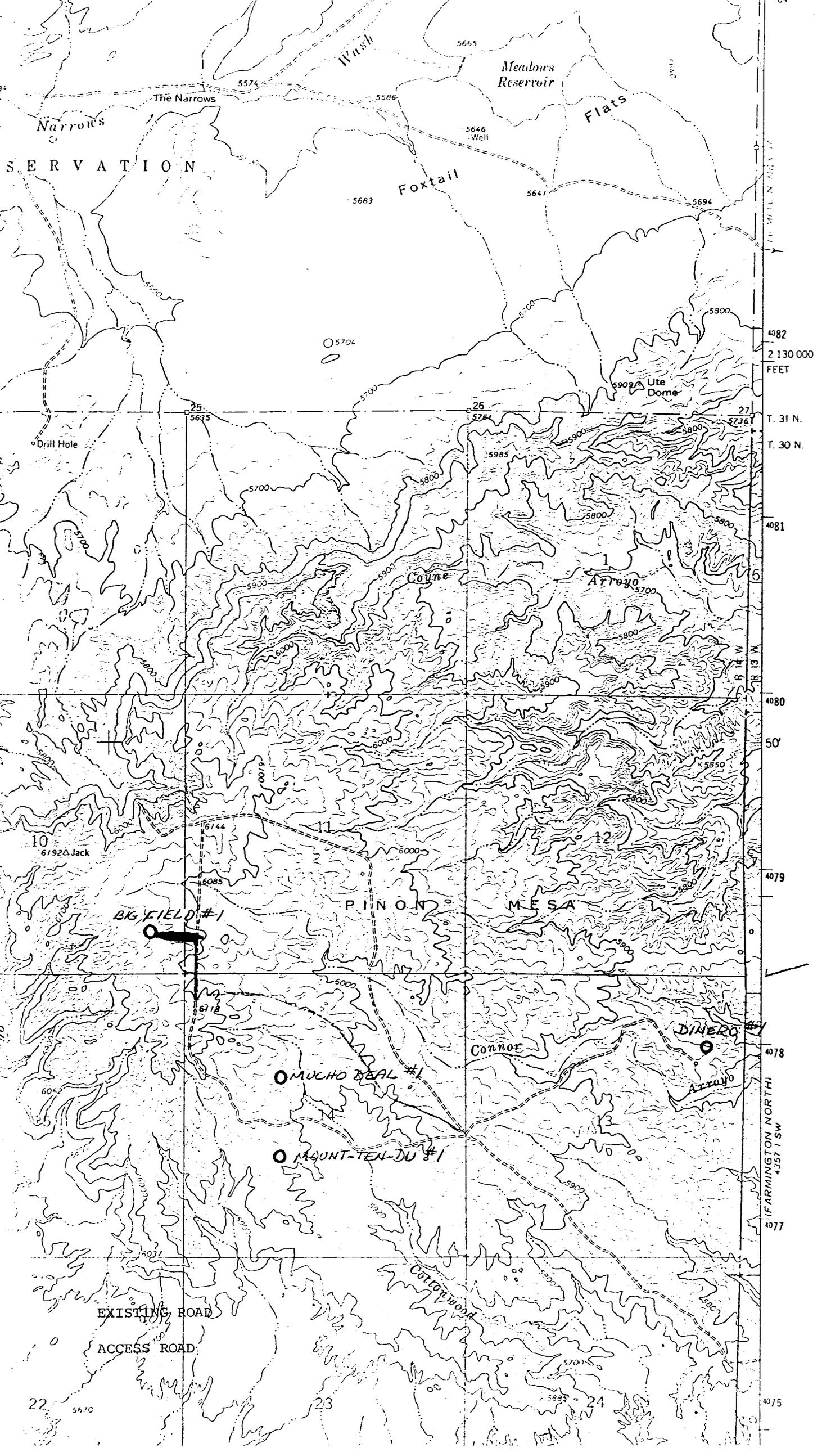
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this Plan are, to the best of my knowledge, true and correct; and, that the work associated 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: 10-5-77


Thomas A. Dugan
Professional Petroleum Engineer

S E R V A T I O N



EXISTING ROAD
 ACCESS ROAD

4082
 2 130 000
 FEET
 T. 31 N.
 T. 30 N.
 4081
 6
 4080
 50
 4079
 4078
 4077
 4075

R. 13 W.
 R. 14 W.

FARMINGTON NORTH
 4357 1 SW