

UNITED STATES
 DEPARTMENT OF THE INTERIOR
 GEOLOGICAL SURVEY

30-045-23230

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL ☒ DEEPEN ☐ PLUG BACK ☐

5. LEASE DESIGNATION AND SERIAL NO.

14-20-603-586

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Hogan

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Mesa Gallup

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

Sec 30 T32N R17W

12. COUNTY OR PARISH

San Juan

13. STATE

NM

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

360' FWL - 2130' FSL

At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

12 miles north of Shiprock, New Mexico

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

360

16. NO. OF ACRES IN LEASE

2228.2

17. NO. OF ACRES ASSIGNED
 TO THIS WELL

40

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

1/4 mi approx

19. PROPOSED DEPTH

1200'

20. ROTARY OR CABLE TOOLS

Rotary

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

5522' GR

22. APPROX. DATE WORK WILL START*

10-10-78

23. PROPOSED CASING AND CEMENTING PROGRAM

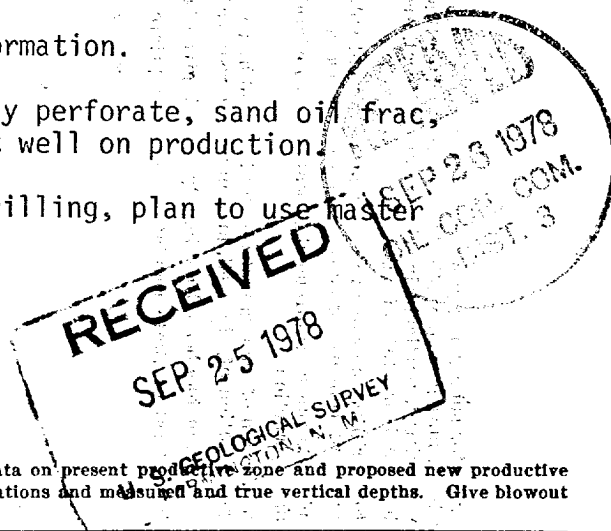
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
8-3/4	7"	20#	60'	12
6-1/4	4-1/2"	10.5#	1200'	50

Plan to drill well with air to test the Gallup Formation.

If productive, plan to set 4-1/2" csg, selectively perforate, sand oil frac, cleanout after frac, run 2-3/8" tbg and rods, put well on production.

Plan to use Regan Hydraulic bag type BOP while drilling, plan to use master valve while completing well.

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 Jim L. Jacobs TITLE Geologist DATE 9-22-78

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

Supersedes C-128
Effective 1-1-65

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

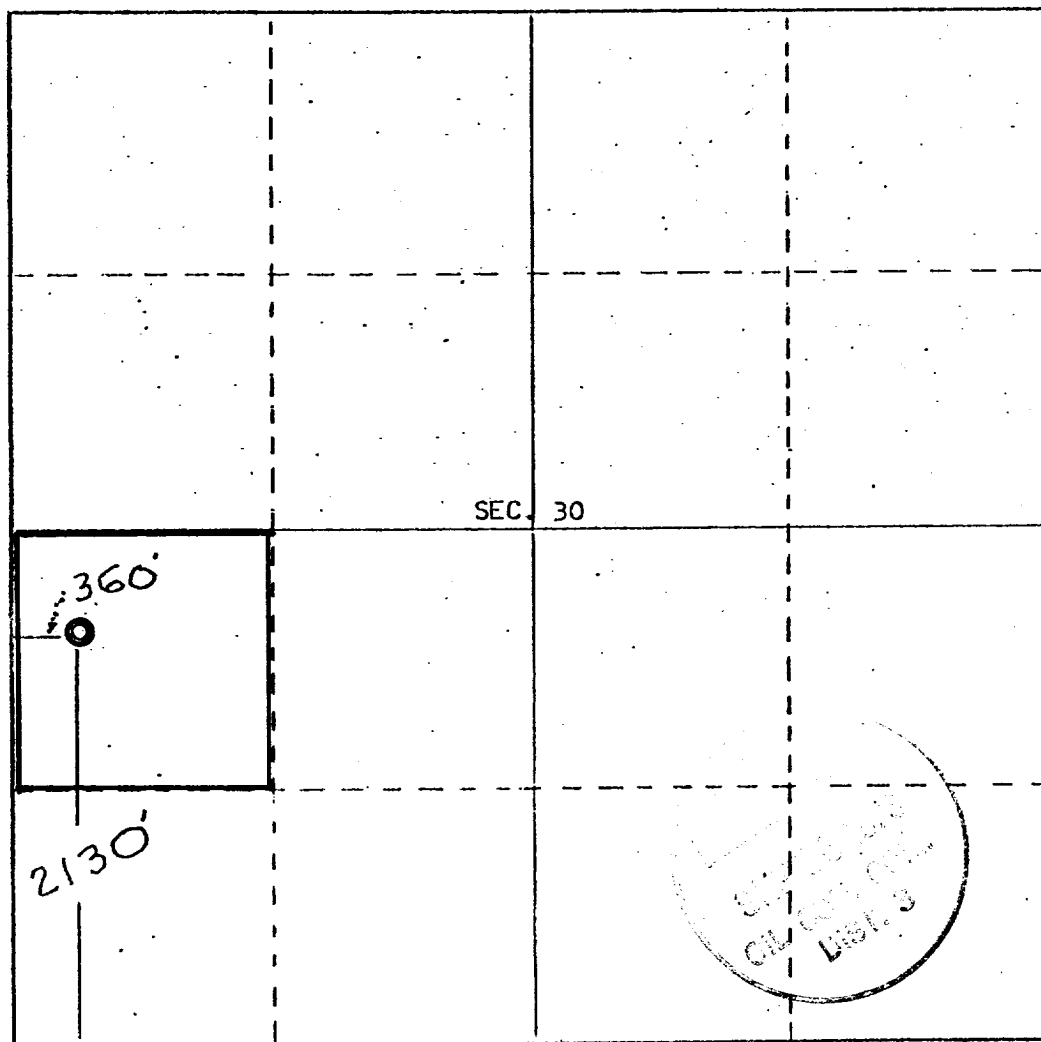
Operator Dugan Production Corporation			Lease Hogan		Well No. 1 ✓
Unit Letter L	Section 30	Township 32 North	Range 17 West	County San Juan	
Actual Footage Location of Well: 2130 feet from the South line and 360 feet from the West line					
Ground Level Elev. 5522	Producing Formation Gallup		Pool Mesa ✓	Dedicated Acreage 40 ✓ 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 _____

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.



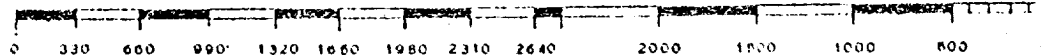
CERTIFICATION

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

Name Jim Jacobs
Position Geologist
Company Dugan Production Corp.
Date 9-22-78

I hereby certify that the well location shown on this plat was plotted from field of observations made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

Date Surveyed September 7, 1978
Registered Professional Engineer and/or Land Surveyor E.V. Echohawk
Certificate No. 3602
E.V. Echohawk LS



N

30-045-23230

9-26-78

F. Loc. 2130/S; 360/W Elev. 5522 GL Spd. Comp. ID PB

Casing S. @ W Sx. Int. @ W Sx. Pr. @ W Sx. T. @
Csg. Perf. Prod. Stim.T
R
A
N
S

I.P. BO/D MCF/D After Hrs. SICP PSI After Days GOR Grav. Ist Del. s

TOPS	NITD	Well Log	TEST DATA						
Kirtland	C-103	Plat	Schd.	PC	Q	PW	PD	D	Ref.No.
Fruitland	C-104	Electric Log							
Pictured Cliffs		C-122							
Cliff House	Ditr	Dfa							
Menefee	Datr	Dac							
Point Lookout	40								
Mancos									
Gallup									
Sanostee									
Greenhorn									
Dakota									
Morrison									
Entrada									

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Mesa Gallup Co. SJs 30 r 32Nr 17W uL Oper. Dugan Production Corp Lse. Hogan No. 1

Hogan #1

L-30-32N-17W

Dugan Production Corporation

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RESCIN DEED

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24. SIGNED *Jim L. Jacobs* **TITLE** Geologist **DATE** 9-22-78
 (This space for Federal or State officer use)

PERMIT NO. **APPROVAL DATE**

TITLE **DATE**

APPROVAL, IF ANY:

NOTION

See Instructions On Reverse Side

ABANDONED LOCATION