

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. NM 16762	
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Witty	
2. NAME OF OPERATOR Dugan Production Corp.		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR P O Box 208, Farmington, NM 87499		8. FARM OR LEASE NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 660' FNL - 1980' FWL At proposed prod. zone		9. WELL NO. 4	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE 6 1/2 miles west of Nageezi Trading Post		10. FIELD AND POOL, OR WILDCAT Undesignated Gallup	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 660' FNL		11. SEC., T., R., M., OR B.L.K. AND SURVEY OR AREA Sec. 12 T23N R10W, NMPM	
16. NO. OF ACRES IN LEASE 1080.00		12. COUNTY OR PARISH San Juan	
17. NO. OF ACRES ASSIGNED TO THIS WELL 40		13. STATE NM	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 2000' NW of Witty #2		19. PROPOSED DEPTH 5025'	
20. ROTARY OR CABLE TOOLS Rotary		22. APPROX. DATE WORK WILL START* ASAP	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6805' GL; 6817' RKB		23. PROPOSED CASING AND CEMENTING PROGRAM This action is subject to administrative appeal pursuant to 30 CFR 2901	
SIZE OF HOLE 12-1/4" 7-7/8"	SIZE OF CASING 8-5/8" 4-1/2"	WEIGHT PER FOOT 24# 10.5#	SETTING DEPTH 200' 5025'
147 cf circulated to surface 1939 cf circulated to surface			

Plan to drill a 12-1/4" hole and set 200' of 8-5/8" OD, 24#, K-55 surface casing; then plan to drill 7-7/8" hole to total depth with gel-water-mud program to test Gallup formation. Plan to run IES and CDL logs. If deemed productive, will run 4-1/2", 10.5#, J-55 casing, selectively perforate, frac, clean out after frac, and complete well.

RECEIVED

JUL 25 1984

OIL CON. DIV.
DIST. 2

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

Sherman E. Dugan

TITLE

Geologist

7-13-84

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

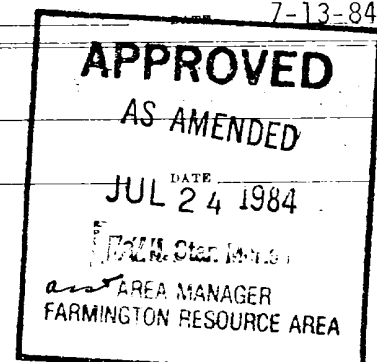
APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

NM000



OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-102
Revised 10-1-78

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

Operator Dugan Production Corporation		Lease Witty		Well No. 4	
Unit Letter C	Section 12	Township 23 North	Range 10 West	County San Juan	
Actual Footage Location of Well: 660 feet from the North line and 1980 feet from the West line					
Ground Level Elev. 6805	Producing Formation Gallup		Pool W.C. Undesignated Gallup		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 Division.

1980		660'	
		100% Dugan Prod Lease# NM 16762	
Sec 12		RECEIVED JUL 16 1984 EDGAR L. RISENHOVER, P.E. REGISTERED PROFESSIONAL ENGINEER AND/OR LAND SURVEYOR	

CERTIFICATION

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

Sherman E. Dugan
Name

Sherman E. Dugan

Position
Geologist

Company
Dugan Production Corp.

Date
7-13-84

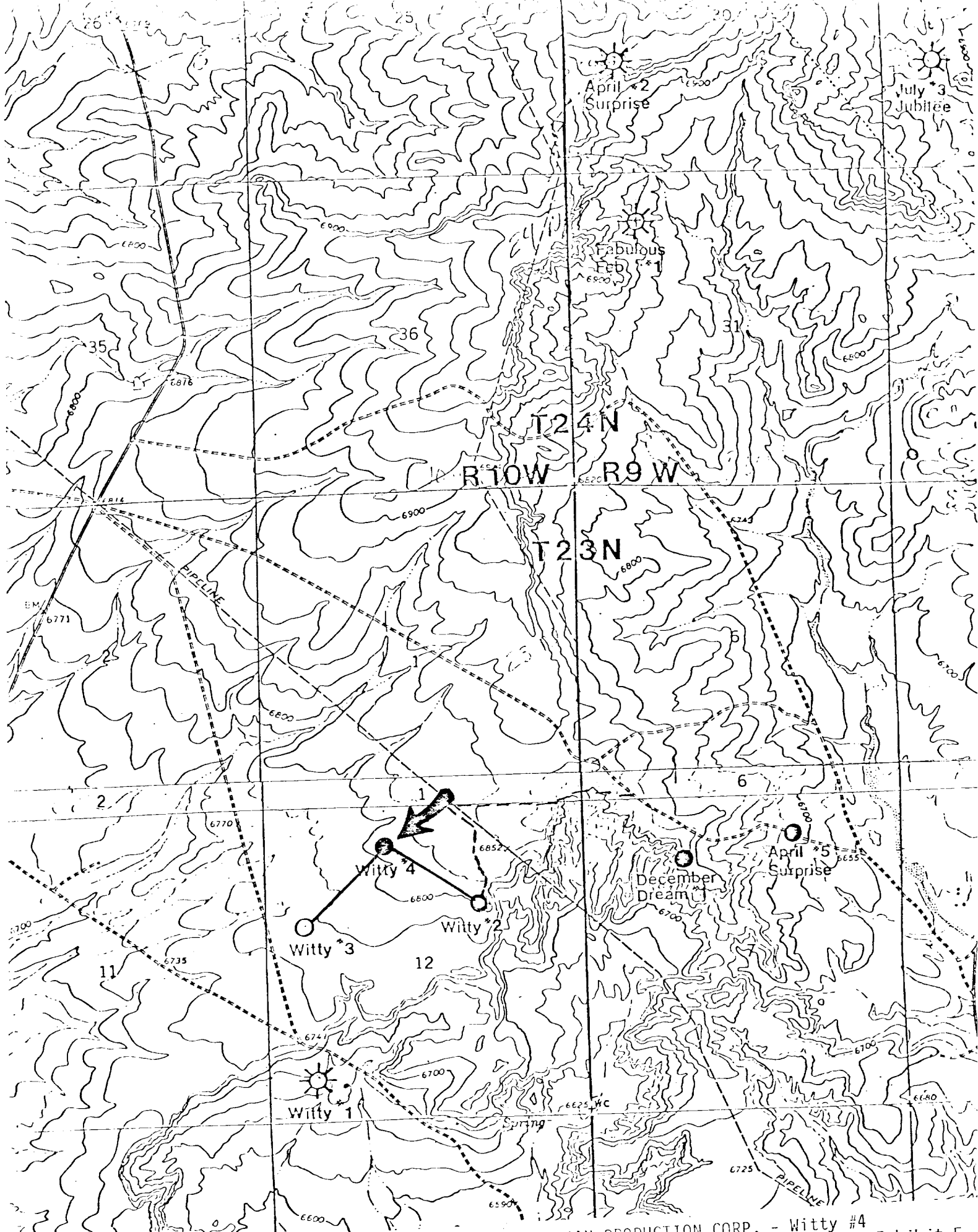
EDGAR L. RISENHOVER, P.E.
NEW MEXICO
3979
I hereby certify that the well location plotted on this plat was taken from field notes of actual surveys made by me or under my supervision, and that the same are true and correct to the best of my knowledge and belief.

Date Surveyed
June 30, 1984

Registered Professional Engineer
and/or Land Surveyor

Edgar L. Risenhover
Certificate No. 5979

Edgar L. Risenhover, P.E.



DUGAN PRODUCTION CORP. - Witty #4
Existing Roads ----- Exhibit E

Distance from nearest town or reference pt.
6 1/2 miles from Nageezi Trading Post

Type of surface dirt

Conditions good

Other

DUGAN PRODUCTION CORP. - Witty #4
Planned Access Road(s) ----- Exhibit E

Width	20'	Maximum grades	1%
Drainage design			None Required
Cuts & Fills			None Required
Surfacing material			On site
Turnouts			
Culverts			
Gates			
Cattleguards			
Fence cuts			

Access road(s) ☒ do/do not cross ☒ Fed/Ind lan