

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

30-039-23326  
5. LEASE DESIGNATION AND SERIAL NO.  
SF 078922

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  
Merrion Oil & Gas Corporation

3. ADDRESS OF OPERATOR  
P. O. Box 1017, Farmington, New Mexico 87499

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)  
At surface 970' FNL and 960' FEL

At proposed prod. zone Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
14 miles North of Counselors, New Mexico

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 970'

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 2470'

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6735' GL  
DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24 #/ft.	200'	170 sx (350.20 cu. ft.)
7-7/8"	4-1/2"	10.5 #/ft.	6000'	900 sx (109.8 cu. ft.)

Will drill 12-1/4" hole to 200 ft. and set 200 ft. of 8-5/8", K-55, 24# casing with 170 sx Class B cement with 3% CaCl<sub>2</sub>. Will run open hole logs and if appears productive, will run 6000' of 4-1/2", 10.5 #/ft casing and cement with 900 sx Class H cement, 50-50 Poz mix w/2% gel. Circulating medium will be clear water and clay. Will set stage collar at approximately 4760' and bring cement up across Ojo Alamo Formation. Will perforate and stimulate as required. Minimum specifications for pressure control equipment which is to be used - 10", 900 series double ram BOP.

ESTIMATED TOPS

San Jose	Surface	Cliff House	3805
Ojo Alamo	1755	Menefee	3905
Kirtland	1905	Point Lookout	4450
Fruitland	2155	Mancos	4760
Pictured Cliffs	2315	Gallup	5605
Lewis	2405		

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 [Signature] TITLE Operations Manager

(This space for Federal or State office use)

PERMIT NO. [Stamp] APPROVAL DATE [Stamp]

APPROVED BY [Signature] TITLE [Stamp]

CONDITIONS OF APPROVAL, IF ANY:

OCT 31 1983  
OR CON. DIV.  
DIST. 3

NM000

DATE 9/12/83  
APPROVED  
AS AMENDED  
OCT 27 1983  
[Signature]  
AREA MANAGER  
FARMINGTON RESOURCE AREA

## OIL CONSERVATION DIVISION

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088  
SANTA FE, NEW MEXICO 87501Form C-107  
Revised 10-1-78

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

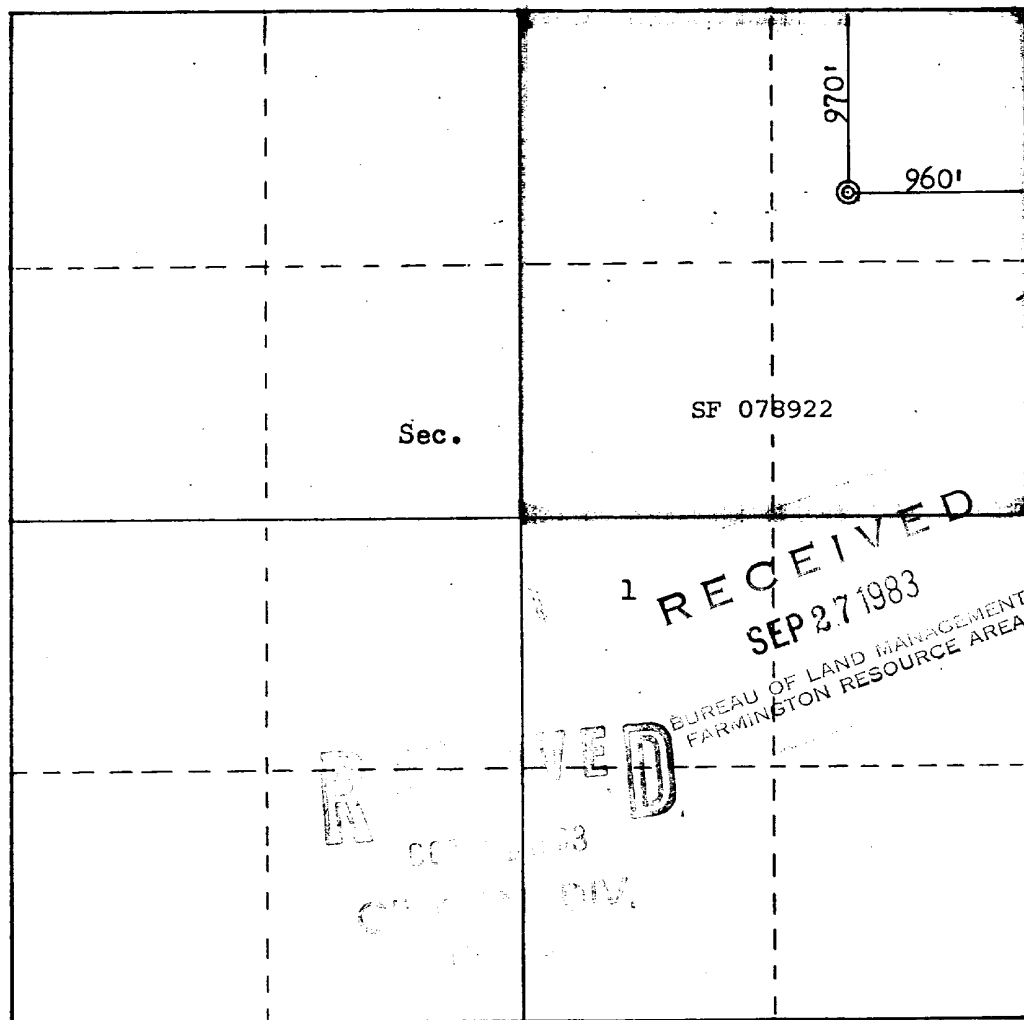
Operator <b>MERRION OIL &amp; GAS CORPORATION</b>			Lease <b>CANYON LARGO UNIT</b>		Well No. <b>332</b>
Unit Letter <b>A</b>	Section <b>1</b>	Township <b>24N</b>	Range <b>7W</b>	County <b>Rio Arriba</b>	
Actual Footage Location of Well: <b>970</b> feet from the <b>North</b> line and <b>960</b> feet from the <b>East</b> line					
Ground Level Elev. <b>6735</b>	Producing Formation <b>Gallup</b>		Pool <b>Devils Fork Gallup</b>		Dedicated Acreage: <b>160</b> Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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.



Scale: 1"=1000'

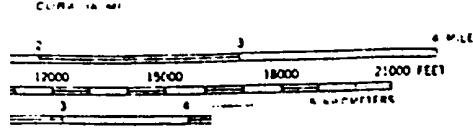
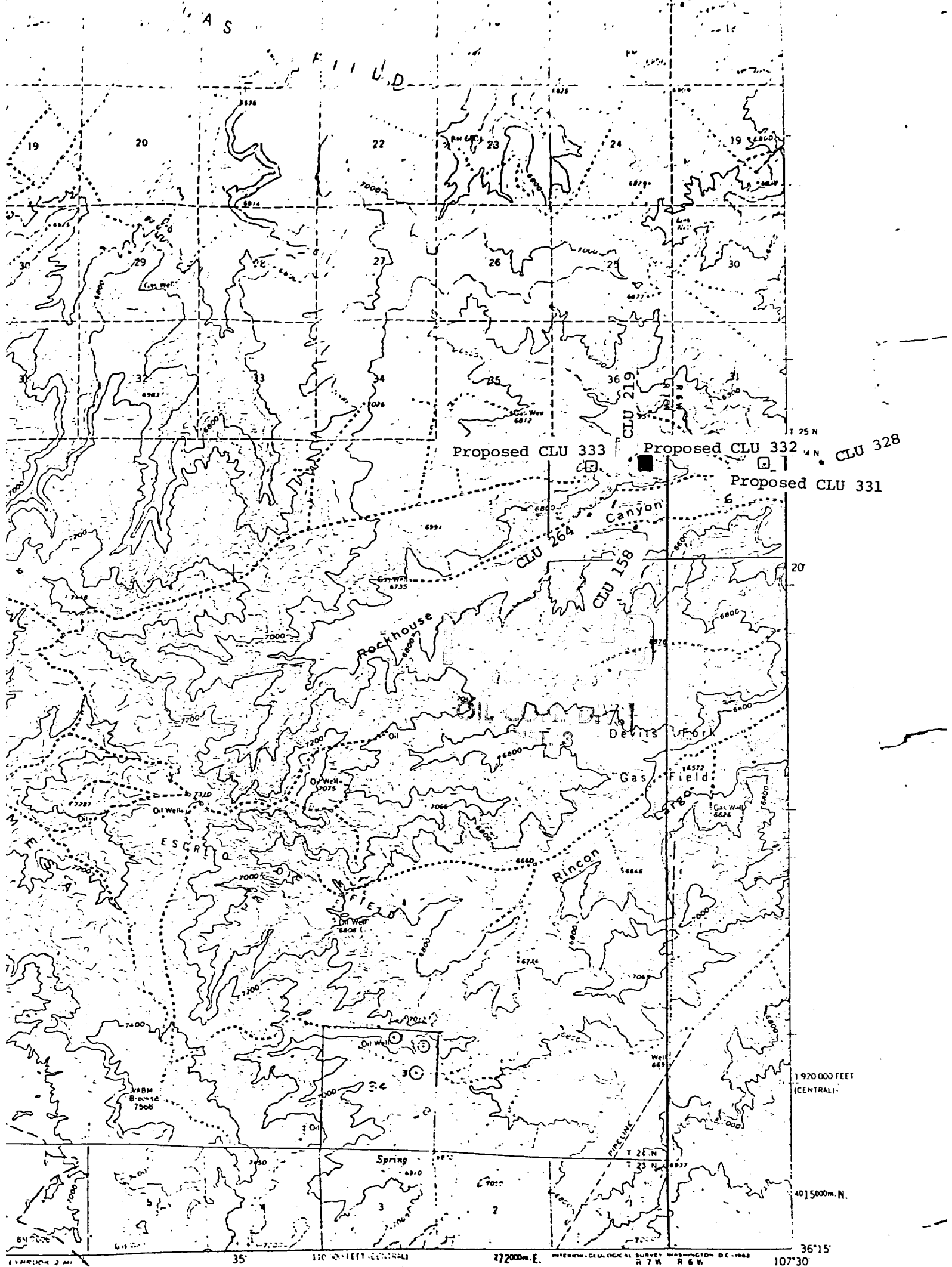
## CERTIFICATION

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

Name  
**Steve S. Dunn**  
Position  
**Operations Manager**  
Company  
**Merrion Oil & Gas Corporation**  
Date  
**9/12/83**

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 knowledge and belief.

Date Surveyed  
**August 30, 1983**  
Registered Professional Engineer and Land Surveyor  
**Fred B. Kern Jr.**  
Certificate No. **3950**



ROAD CLASSIFICATION  
Medium duty — — — Light duty

Vicinity Map for  
MERRION OIL & GAS CORPORATION #332 CANYON LARGO UNIT  
970'FNL 960'FEL Sec. 1-T24N-R7W  
RIO ARRIBA COUNTY, NEW MEXICO

I. N. MFY  
W10730/15  
1959

PRADO OR WASHINGTON 25. D.C.  
AVAILABLE ON REQUEST