

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

30-039-23397

## 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 &amp; Gas Corporation

## 3. ADDRESS OF OPERATOR

P. O. Box 1017, Farmington, New Mexico 87401

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

790' FNL and 790' FWL

At proposed prod. zone Same

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

13 miles N. of Counselors, 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

1760

## 17. NO. OF ACRES ASSIGNED

TO THIS WELL

160

## 18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,

OR APPLIED FOR, ON THIS LEASE, FT.

3700'

## 19. PROPOSED DEPTH

6235'

## 20. ROTARY OR CABLE TOOLS

0 - TD

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

6532' GL

## 22. APPROX. DATE WORK WILL START\*

Summer/1984

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

This action is subject to administrative  
appeal pursuant to 30 CFR 200.

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT     |
|--------------|----------------|-----------------|---------------|------------------------|
| 12-1/4"      | 8-5/8"         | 24 #/ft         | 200'          | 200 sx (200.6 cu. ft.) |
| 7-7/8"       | 4-1/2"         | 10.5 #/ft.      | 6235'         | 700 sx (1442 cu. ft.)  |
|              |                |                 |               | 100 sx (122 cu. ft.)   |

Will drill 12-1/4" hole to 200' and set 8-5/8", 24 #/ft. surface casing with 170 sx (200.6 cu. ft.) Class B, 2% CACL<sub>2</sub>. Will pressure test to 500 PSI. Will drill 7-7/8" hole to 6235' or depth sufficient to test the Gallup. Will run open hole logs. If appears productive, will run 4-1/2", 10.5 #/ft. J-55 casing to TD and stage cement. First stage will cement with 225 sx Class H 2% gel (1.22 cu. ft./sk yield) 275 cu. ft. cement to cover Gallup interval from TD. Estimated top of cement is 4830 ft. Will set stage collar at 4930' below Point Lookout Formation. Second stage will cement with 700 sx Class B 2% D-79 (2.06 cu. ft./sk yield) 1442 cu. ft. cement followed by 100 sx Class H 2% gel (1.22 cu. ft./sk yield) 122 cu. ft. cement to cover Mesaverde, Chacra, Pictured Cliffs, Fruitland and Ojo Alamo. Estimated top of cement is 250 ft.

Drilling circulating medium will be low solids non dispersed, low water loss mud using bentonite starch, CMC and fresh water.

Minimum specifications for pressure control is 10", 900 series double ram blow out preventer. Will perforate and stimulate as required for completion.

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

TITLE Operations Manager

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

APPROVED

AS AMENDED

MAR 19 1984

AREA MANAGER  
FARMINGTON RESOURCE AREA

NMOCC

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

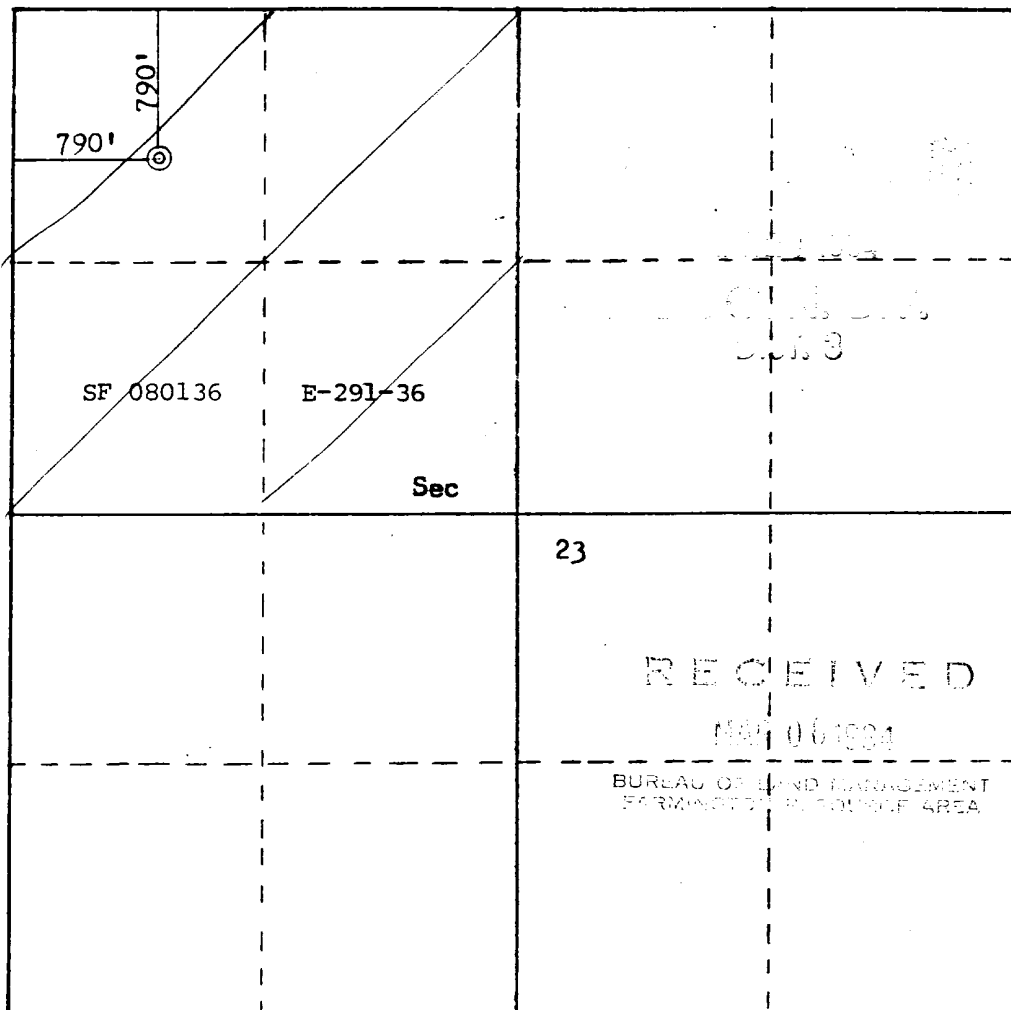
|                                                                                                                              |                                      |                        |                                   |                             |                                        |
|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|------------------------|-----------------------------------|-----------------------------|----------------------------------------|
| Operator<br><b>Merrion Oil and Gas Corporation</b>                                                                           |                                      |                        | Lease<br><b>Salazar G Com</b>     |                             | Well No.<br><b>23-2</b>                |
| Unit Letter<br><b>D</b>                                                                                                      | Section<br><b>23</b>                 | Township<br><b>25N</b> | Range<br><b>6W</b>                | County<br><b>Rio Arriba</b> |                                        |
| Actual Footage Location of Well:<br><b>790</b> feet from the <b>North</b> line and <b>790</b> feet from the <b>West</b> line |                                      |                        |                                   |                             |                                        |
| Ground Level Elev.<br><b>6532</b>                                                                                            | Producing Formation<br><b>Gallup</b> |                        | Pool<br><b>Devils Fork Gallup</b> |                             | Dedicated Acreage:<br><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 Communitized

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.

*Steve S. Dunn*  
Name  
Steve S. Dunn  
Position  
Operations Manager  
Company  
Merrion Oil & Gas Corporation  
Date  
2/8/84

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  
February 1, 1984  
Registered Professional Engineer and Land Surveyor  
*Fred B. Kerr Jr.*  
Fred B. Kerr Jr.  
Certificate No. 3950

## Instructions

**General:** This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

**Item 1:** If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 14:** Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

**Items 15 and 18:** If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

**Item 22:** Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

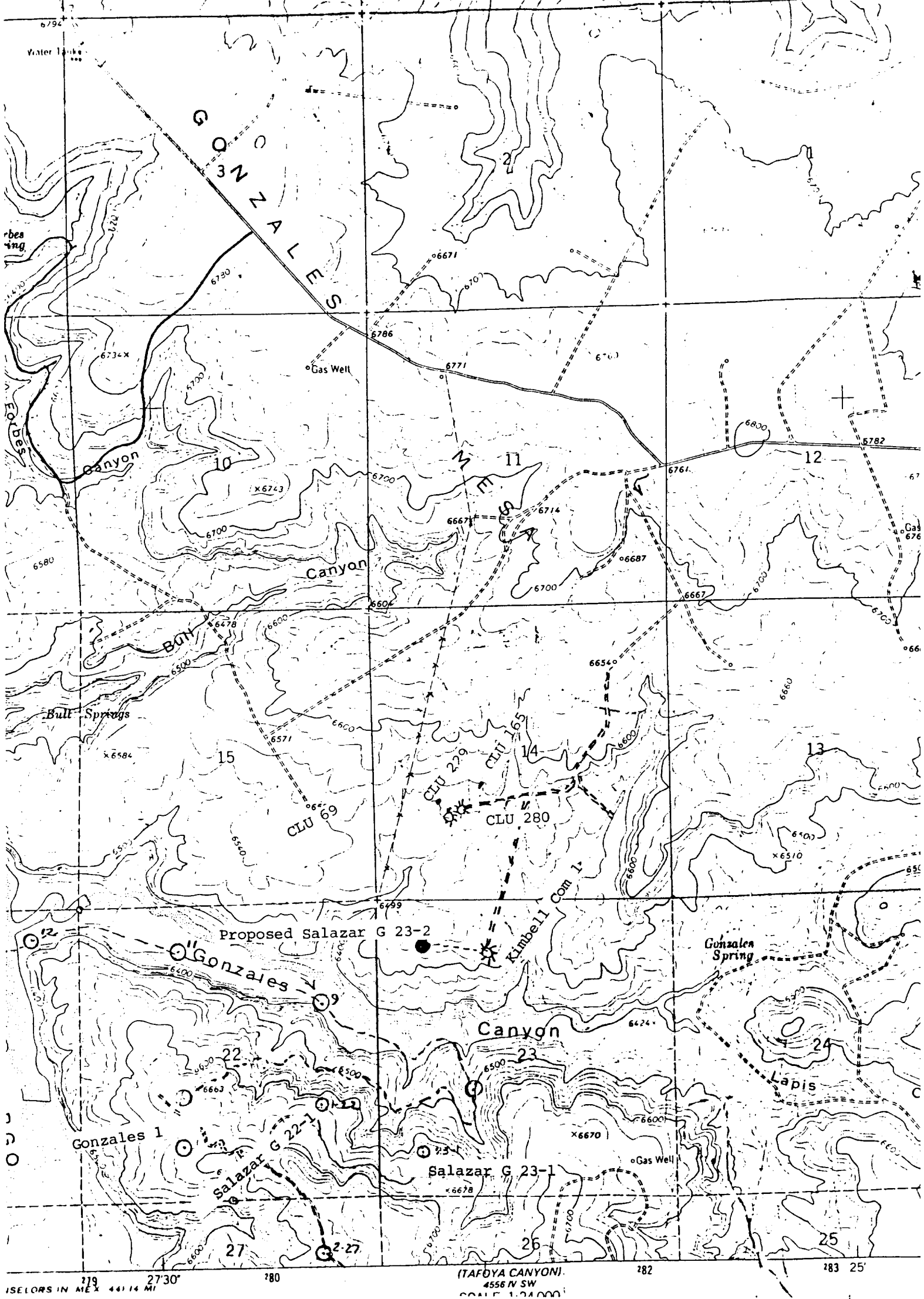
☆ U.S. GOVERNMENT PRINTING OFFICE : 1963-O-711-346

| ESTIMATED TOPS       |      |
|----------------------|------|
| Ojo Alamo Sand       | 1920 |
| Kirtland Shale       | 2060 |
| Fruitland Shale      | 2227 |
| Pictured Cliffs Sand | 2525 |
| Lewis Shale          | 2665 |
| Cliffhouse Sand      | 4084 |
| Menefee              | 4150 |
| Point Lookout Sand   | 4730 |
| Mancos Shale         | 4945 |
| Gallup Sand          | 5885 |

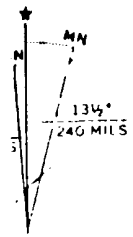
RECEIVED

MAR 21 1984

DIST. 3



Vicinity Map for  
 Merrion Oil & Gas Corp #23-2 Salazar G  
 790' FNL 790' FWL Sec 23-25N-6W  
 Rio Arriba County New Mexico



963 MAGNETIC NORTH  
 CENTER OF SHEET

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

PROCESSED BY THE NATIONAL MAPS INFORMATION CENTER, COLLEGE PARK, MARYLAND 20740 OR RESTON, VIRGINIA 22092