

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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 Corporation3. ADDRESS OF OPERATOR
P. O. Box 1017, Farmington, New Mexico 874994. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface 1630' FSL and 790' FWL

At proposed prod. zone Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE
13 miles North of Counselor, New Mexico15. DISTANCE FROM PROPOSED*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drig. unit line, if any) 1630'18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT. 2000'16. NO. OF ACRES IN LEASE
1255919. PROPOSED DEPTH
5876'17. NO. OF ACRES ASSIGNED
TO THIS WELL
16020. ROTARY OR CABLE TOOLS
0 - TD

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

6511 GL

DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED

23. PROPOSED CASING AND CEMENTING PROGRAM

22. APPROX. DATE WORK WILL START*

Spring/summer, 1984

This action is subject to administrative
appeal pursuant to 30 CFR 290.

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24 #/ft.	200'	175 sx.
7-7/8"	4-1/2"	11.6 #/ft.	5876'	1025 sx.

Will drill 12-1/4" surface hole to 200 ft. and set 200 ft. of 8-5/8", 24 #/ft, J-55 grade casing with 175 sx Class B cement with 3% CaCl₂. (361 cu. ft.) Will drill 7-7/8" hole to 5876'. Will run open hole logs. No other testing planned. If well appears productive, will run 5876' of 4-1/2", 11.6 #/ft, J-55 grade casing and stage cement. First stage will cement 21th 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 4775'. Will set stage collar at 4600 ft 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 Nesaverde, Chacra, Pictured Cliffs, Fruitland and Ojo Alamo. Estimated top of cement is 400 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 Blowout 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 [Signature] TITLE Operations Manager

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY

TITLE

APPROVED

AS AMENDED

MAR 29 1984

AREA MANAGER
FARMINGTON RESOURCE AREA

RECEIVED

MAR 30 1984

OIL CON. DIV.
DIST. 3

NMOCC

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-711-396

APPROVAL FOR PERMIT TO DRILL OR PLUG BACK	
PLUG BACK	ESTIMATED TOPS
Ojo Alamo	1456'
Kirtland	1626'
Fruitland	1896'
Pictured Cliffs	2056'
Lewis	2191'
Chacra	2941'
Cliffhouse	3626'
Menefee	3711'
Point Lookout	4264'
Mancos	4524'
Gallup	5416'
TOTAL DEPTH	5876'

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO

P. O. BOX 2088

Form C-107

ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

Revised 10-1-78

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

Operator MERRION OIL & GAS CORPORATION			Lease CANYON LARGO UNIT		Well No. 337
Unit Letter L	Section 5	Township 24N	Range 6W	County Rio Arriba	
Actual Footage Location of Well: 1630 feet from the South line and 790 feet from the West line					
Ground Level Elev. 6511	Producing Formation Gallup		Pool Devils Fork Gallup		Dedicated Acreage: 160 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

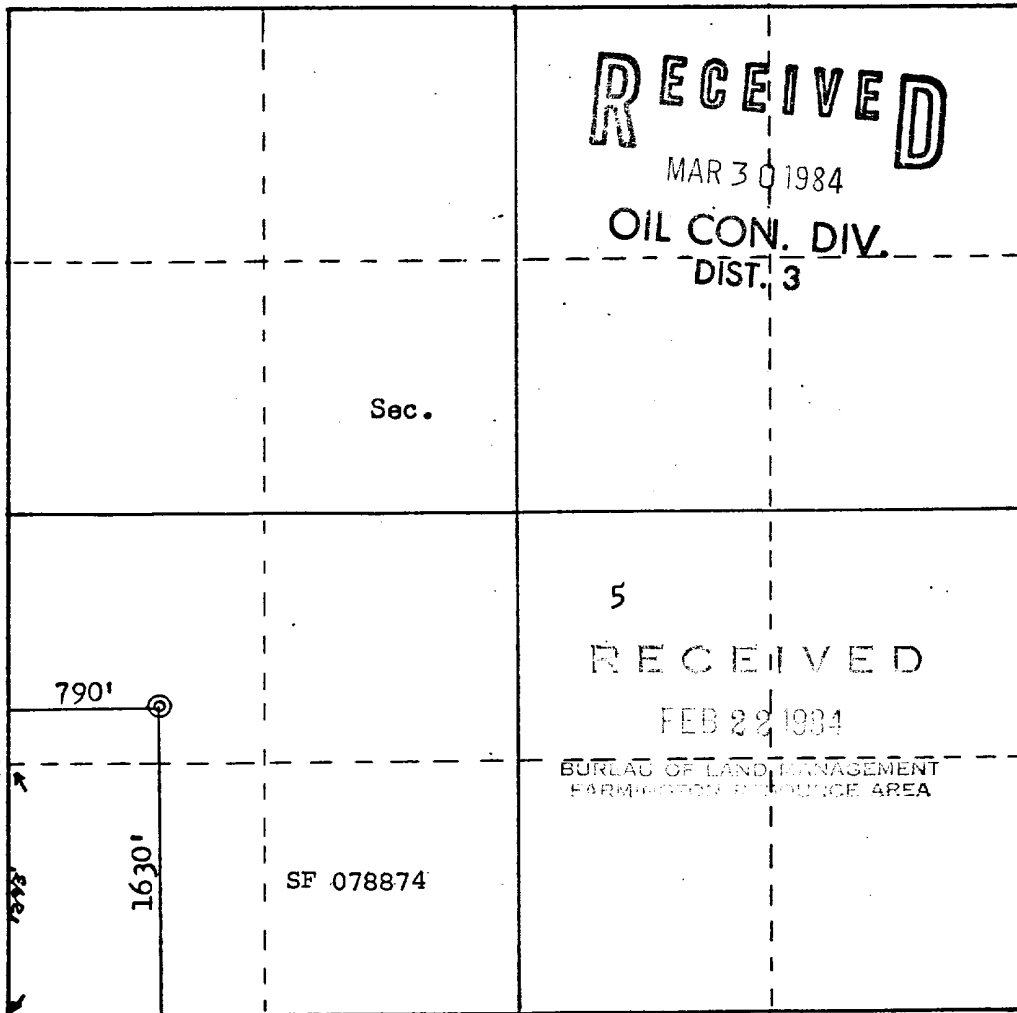
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

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

1/12/84

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

December 29, 1983

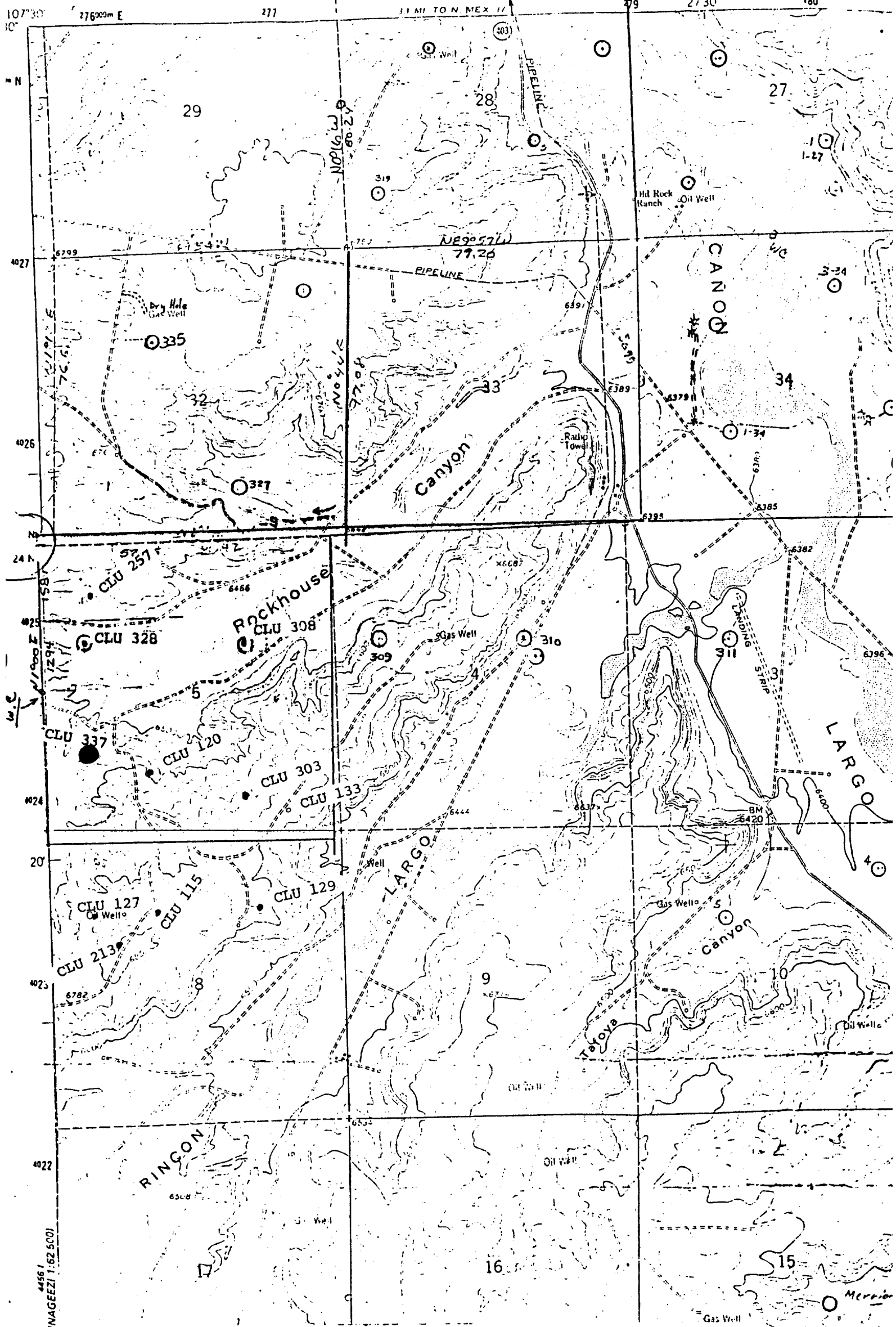
Registered Professional Engineer and Land Surveyor.

Fred B. Kerr Jr.

Certificate No.

3950

GEOLOGICAL SURVEY



Vicinity Map for
MERRION OIL & GAS CORP., #337 CANYON LARGO UNIT
1630'FSL 790'FWL Sec. 5-T24N-R6W
RIO ARRIBA COUNTY, NEW MEXICO