

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 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 790' FNL and 1690' FWL

At proposed prod. zone

Same

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

13 miles North of Counselor, New Mexico

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

2559

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.

2600'

19. PROPOSED DEPTH

6010'

20. ROTARY OR CABLE TOOLS

0 - TD

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

6564' GL

DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS"

22. APPROX. DATE WORK WILL START*

Spring/summer, 1984

23.

PROPOSED CASING AND CEMENTING PROGRAM

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.	6010'	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. Will drill 7-7/8" hole to 6010 ft. Will run open hole logs. No other testing planned. If well appears productive, will run 6010 ft. of 4-1/2", 11.6#/ft, J-55 grade casing 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 4900 ft. Will set stage collar at 4750 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 Mesaverde, Chacra, Pictured Cliffs, Fruitland and Ojo Alamo. Estimate top of cement is 550 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

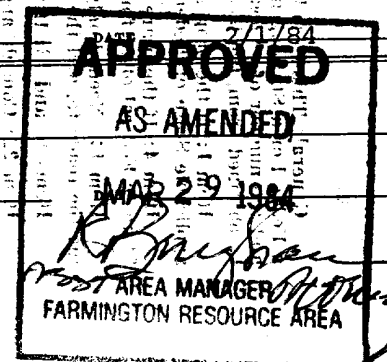
TITLE

CONDITIONS OF APPROVAL, IF ANY

MAR 30 1984

OIL CON. DIV.
DIST. 3

NMOCC



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

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 applicable State or Federal regulations concerning subsequent project impacts on resources.

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL
SPOT TESTS

NAME OF WELL ☒ OIL ☐ WATER

NAME OF OPERATOR ☒ NEUTRINO OIL & GAS CORPORATION

ADDRESS OF OPERATOR ☒ P. O. Box 1011, Hermosillo, Sonora, Mexico

DATE OF APPLICATION ☒ 1960

NAME OF WELL ☐ OIL ☒ WATER

NAME OF OPERATOR ☐ NEUTRINO OIL & GAS CORPORATION

ADDRESS OF OPERATOR ☐ P. O. Box 1011, Hermosillo, Sonora, Mexico

DATE OF APPLICATION ☐ 1960

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2. NAME OF OPERATOR ☒ NEUTRINO OIL & GAS CORPORATION

3. ADDRESS OF OPERATOR ☒ P. O. Box 1011, Hermosillo, Sonora, Mexico

4. DATE OF APPLICATION ☒ 1960

5. NAME OF WELL ☐ OIL ☒ WATER

6. NAME OF OPERATOR ☐ NEUTRINO OIL & GAS CORPORATION

7. ADDRESS OF OPERATOR ☐ P. O. Box 1011, Hermosillo, Sonora, Mexico

8. DATE OF APPLICATION ☐ 1960

NAME OF WELL	DEPTH OF WELL (FEET)	DATE OF DRILLING	PERMIT FEE (DOLLARS)	REMARKS
Ojo Alamo	1590	1960	1760	
Kirtland	2030	1960	2190	
Fruitland	2325	1960	3075	
Pictured Cliffs	3760	1960	3845	
Lewis	4408	1960	4658	
Chacra	5550	1960	6010	
Cliffhouse				
Menefee				
Point Lookout				
Mancos				
Gallup				
TOTAL DEPTH	6010			

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

Operator MERRION OIL & GAS CORPORATION			Lease CANYON LARGO UNIT		Well No. 339
Unit Letter C	Section 6	Township 24N	Range 6W	County Rio Arriba	
Actual Footage Location of Wells 790 feet from the North line and 1690 feet from the West line					
Ground Level Elev. 6564	Producing Formation Gallup		Pool Devils Fork Gallup		Dedicated Acreage 160 1/4 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 _____

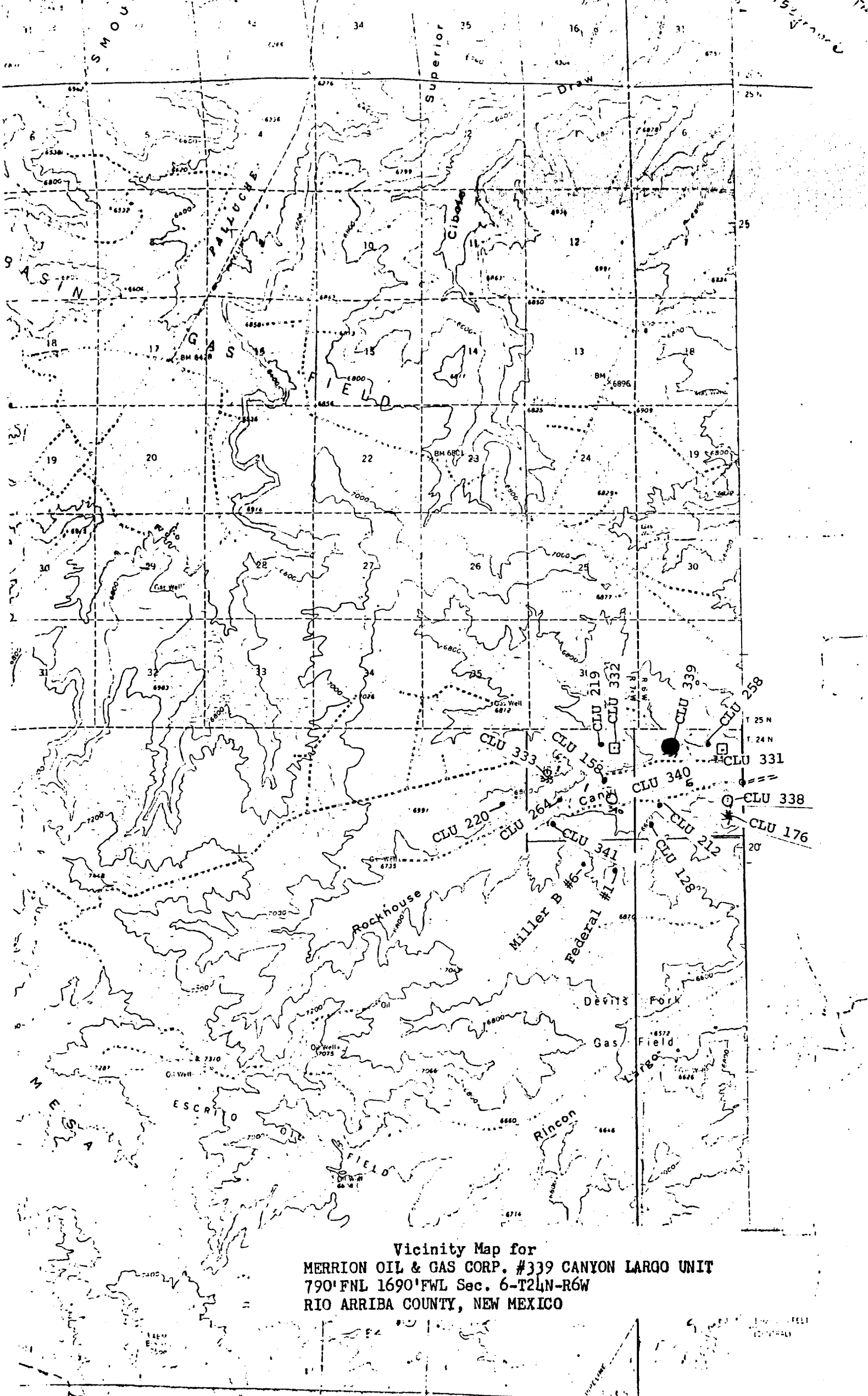
If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

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.

		RECEIVED FEB 28 1984 BUREAU OF LAND MANAGEMENT FARMINGTON RESOURCE AREA
6		RECEIVED MAR 30 1984 OIL CON. DIV. DIST. 3

Scale: 1"=1000'

CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. <i>Steve S. Dunn</i> Name Steve S. Dunn Position Operations Manager Company Merrion Oil & Gas Corp. 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 <i>Fred B. Kerr Jr.</i> Fred B. Kerr Jr. Certificate No. 3950	



Vicinity Map for
MERRION OIL & GAS CORP. #339 CANYON LARGO UNIT
790' FNL 1690' FWL Sec. 6-T24N-R6W
RIO ARRIBA COUNTY, NEW MEXICO