

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 State requirements.)

At surface 990' FSL and 1850' FWL

At proposed prod. zone Same

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

200 ft.

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

None

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

6617' GL

DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED

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	175 sx
7-7/8"	4-1/2"	11.6 #/ft.	5965	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. (360.5 cu. ft.). Will drill 7-7/8" hole to 5965 ft. Will run open hole logs. No other testing planned. If well appears productive, will run 5965 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 275 cu. ft. cement (1.22 cu. ft./sk) to cover Gallup interval from TD. Estimated top of cement is 4865 ft. Will set stage collar at 4720 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. yield) 122 cu. ft. cement to cover Mesaverde, Chacra, Pictured Cliffs, Fruitland and Ojo Alamo. Estimated top of cement is 520 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

MAR 30 1984

OIL CON. DIV.
DIST. 3

NMOCC

5. LEASE DESIGNATION AND SERIAL NO.

SF 079915

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Canyon Largo Unit Com

9. WELL NO.

341

10. FIELD AND POOL, OR WELLCAT

Devils Fork Gallup

11. SEC. T., R., M., OR BLK.

AND SURVEY OR AREA

N
Sec. 1, T24N, R7W

12. COUNTY OR PARISH

13. STATE

Rio Arriba

New Mexico

16. NO. OF ACRES IN LEASE

120

17. NO. OF ACRES ASSIGNED
TO THIS WELL

160

20. ROTARY OR CABLE TOOLS

Q TD

22. APPROX. DATE WORK WILL START*

Spring/summer, 1984

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

APPROVED

AS AMENDED

MAR 27 1984

K. D. [Signature]
STAR MANAGER
FARMINGTON RESOURCE AREA

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.

APPLICATION FOR PERMIT TO DRILL DEEPEN OR PLUG WELL

ESTIMATED TOPS	DEPTH	PLUG BACK
Ojo Alamo	1545'	
Kirtland	1715'	
Fruitland	1985'	
Pictured Cliffs	2145'	
Lewis	2280'	
Chacra	3030'	
Cliffhouse	3715'	
Menefee	3800'	
Point Lookout	4363'	
Mancos	4613'	
Gallup	5505'	
Total Depth	5965'	

PROPOSED CASING AND CEMENTING PROGRAM

DATE	TIME OF LANDING	WEIGHT OF LOAD	SETTING DEPTH
1	10:00	100	100
10	10:00	100	100

Minimum specifications for pressure control is 10", 300 series
 Venturi and orifice are required for completion.
 Venturi, orifice, GMS and fresh water.
 Drilling circulating medium will be low solids, non dispersed,
 Fruitland and Ojo Alamo. Estimated top of cement is 520 ft.
 is gal (1.22 cu. ft. yield) 102 cu. ft. cement to cover Mesaverde
 Class B is D-72 (2.00 cu. ft./sk. yield) 144 cu. ft. cement to
 collar at 4720 ft. below first look-out formation. Second Stage
 to cover Galing interval from TD. Estimated top of cement is 4
 First stage will cement with 228 ex Class H 22 gal 275 cu. ft.
 productive, will run 2285 ft. of 4-1/2", 11.4 #/ft, 7-25 grade
 hole to 3267 ft. Will run open hole logs. No other testing
 required with 1 1/2 ex Class B cement with 32 CaCl₂ (300.5 cu. ft.
 will drill 12-1/4" outside hole to 303 ft. and set 100 ft. of

none if possible; if a call or deeper discussion give pertinent data on anticipated actions and means to avoid or reduce potential problems. If a proposal is a request or plan back give date of present proposal and anticipated protocol approval.

REP. JIMMIE SMITH (R-OK)

LIT

154H 0010 0812 TO INTERCOM 700000Z APR 69

724 407 2575

4452

1990 11 11 10:23:19

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

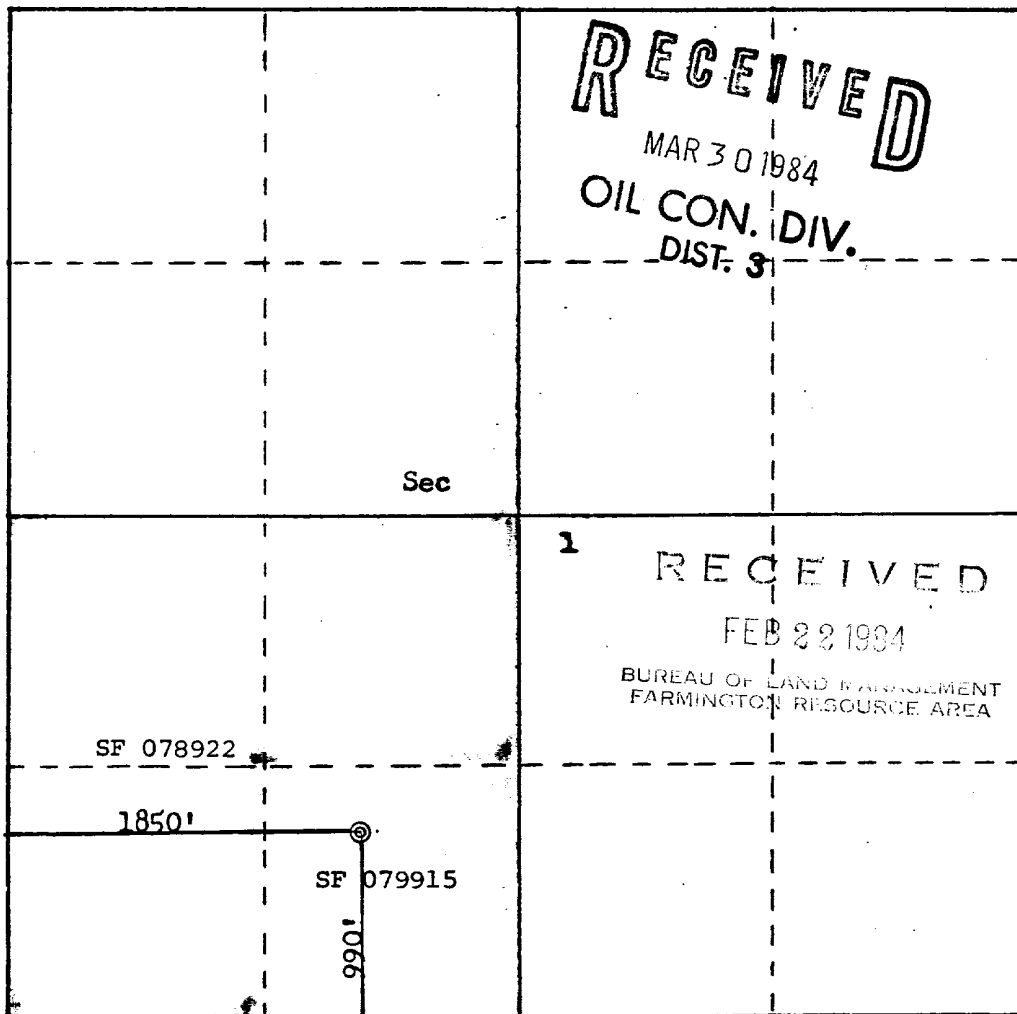
Operator Merrion Oil & Gas Corporation			Lease Canyon Largo Unit Com		Well No. 341
Unit Letter N	Section 1	Township 24N	Range 7W	County Rio Arriba	
Actual Footage Location of Well: 990 feet from the South line and 1850 feet from the West line					
Ground Level Elev. 6617	Producing Formation Gallup		Pool Devils Fork Gallup		Dedicated Acreage: 160 Acres

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 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

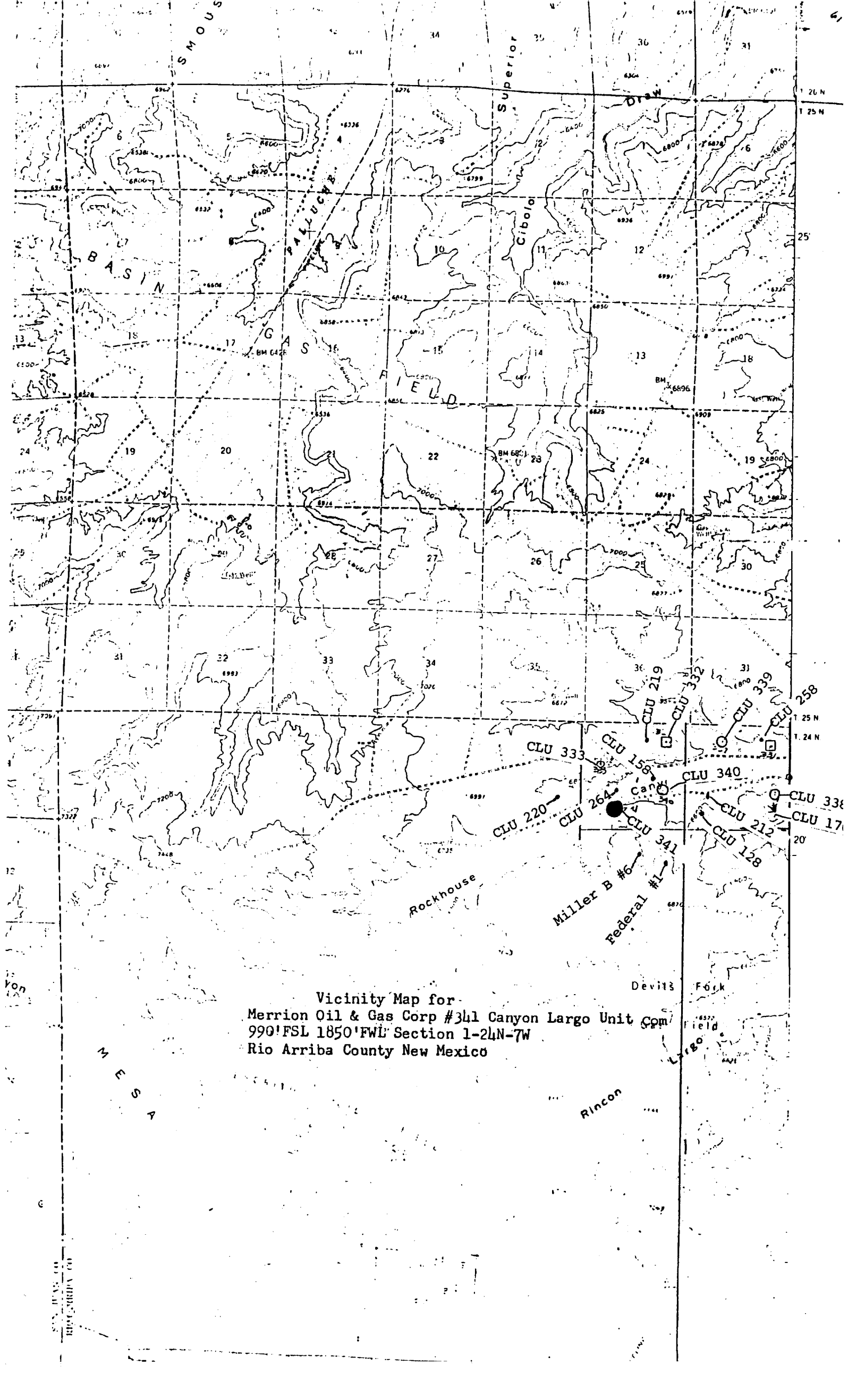
If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

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.	
Name	Steve S. Dunn
Position	Operations Manager
Company	Merrion Oil & Gas Corporation
Date	1/13/84
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	January 4, 1984
Registered Professional Engineer and Land Surveyor	Fred B. Kerr Jr.
Certificate No.	3950



Vicinity Map for
Merrion Oil & Gas Corp #341 Canyon Largo Unit Com
990' FSL 1850' FWL Section 1-24N-7W
Rio Arriba County New Mexico