

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
Budget Bureau No. 1004-0136  
Expires: February 28, 1995

## APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. Type of Work

DRILL ☒DEEPEN ☐

b. Type of Well

Oil Well ☐ Gas Well ☒ Other ☐Single Well ☒ Multiple Zone ☐

2. Name of Operator

Merrion Oil &amp; Gas Corporation

3. Address and Telephone No.

610 Reilly Ave Farmington NM 87401  
ph: (505) 327-9801

4. Location of Well (Footages)

At Surface 990' fsl &amp; 1255' fwl (sw sw)

At proposed prod. zone

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4.

14. Distance in Miles and Directions from Nearest Town or Post Office

0.5 miles north of San Juan College, Farmington NM

15. Distance from Proposed Location to Nearest

Property or Lease Line, Ft 990'

16. No. of Acres in Lease

2480 acres

18. Distance from Proposed Location to Nearest Well Drilling, Completed, or Applied for, on this Lease, FT

75'

19. Proposed Depth

-1943'

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

5660' GR, 5665' RKB

20. Rotary or Cable Tools

Rotary

22. Approximate Date Work will Start

~March, 1998

5. Lease Designation and Serial No.  
SF-078213

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Panther No. 1

9. API Well No.

30-045-22573

10. Field and Pool, or Exploratory Area

Fulcher Kutz PC EXT

11. Sec., T., R., M., or BLK. and Survey or Area

Section 25, T30N, R13W

12. County or Parish

San Juan

13. State

NM

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

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE & GRADE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
8-3/4"	7" J55	23 ppf	~120' KB	~30 sx (36 cuft)
6-1/4"	4-1/2" J55	10.5 ppf	~1943' KB	~180 sx (260 cuft)

Merrion proposes to drill 8-3/4" hole with native mud to approx 120' and set 7" 23# J55 surface casing, cement to surface with ~30 sx 'B' w/ 2% CaCl<sub>2</sub> (36 cuft). Will drill 6-1/4" hole to TD @ approx 1943' KB with low solids non-dispersed mud system. Run open hole surveys. Will set 4-1/2" 10.5 ppf J55 production casing from TD to surface. Will cement with 25 sx 'B' (30 cuft) lead slurry followed by 55 sx 'B' w/ 2% SMS (112 cuft) and tail in with 100 sx 'B' (118 cuft) cement to fill from total depth to surface. A cementing chronology will be recorded and submitted to the BLM after completion of the job. Top of Cement should circulate to surface (will adjust volumes based upon caliper log).

A ~5 bbl water spacer will be pumped ahead of the lead slurry to prevent mud contamination of the cement. If cement does not reach surface, a temperature log or cement bond log will be run to determine top of cement.

The production casing will be centralized through the Pictured Cliffs and Fruitland intervals and through any usable water zones. Turbo-centralizers will be placed just below and into the base of the lowest usable water zone.

Will test Pictured Cliffs through perforated casing. Will fracture stimulate and put on for production test. Drilling operations below surface casing will be conducted with a double ram type BOP in place, minimum working pressure 2000 psig. Additional drilling technical details attached.

A pipeline route approval is also proposed as part of this APD as per the enclosed plat.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal to deepen, give present productive zone and proposed new productive zone.

COPIES: BLM+4, WELL FILE+1

24. I hereby certify that the foregoing is true and correct

Signed

Steven S. Dunn

Title Drilling &amp; Prod Manager

Date December 19, 1997

(This space for Federal or State office use)

Permit No.

Approval Date

4/8/98

Application approval does not warrant or certify that applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any:

APPROVED BY:

Joe Henth

TITLE

Acting Team Lead

DATE

4-8-98

NMOC

District I  
PO Box 1980, Hobbs, NM 88241-1980  
District II  
PO Drawer DD, Artesia, NM 88211-0719  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
PO Box 2088  
Santa Fe, NM 87504-2088

Form C-102  
Revised February 21, 1994  
Instructions on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-045-29573		1 Pool Code 79680		1 Pool Name Fulcher West Kutz Pictured Cliffs EXT	
1 Property Code 23182		1 Property Name Panther			1 Well Number #1
1 OGRID No. 014634		1 Operator Name MERRION OIL & GAS			1 Elevation 5660'

10 Surface Location

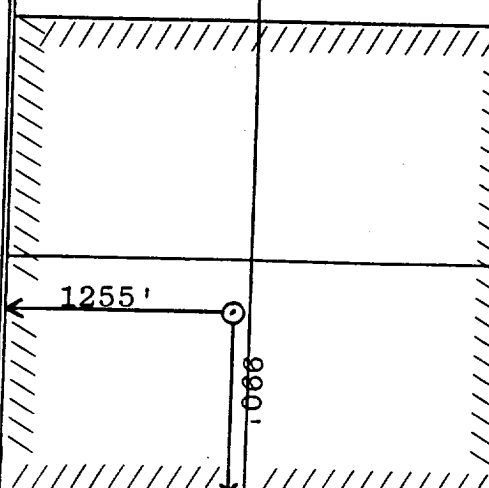
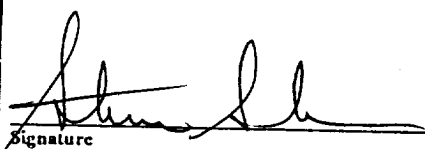

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	25	30 N	13 W	SWSW	990	South	1255	West	San Juan

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

12 Dedicated Acres 160	13 Joint or Infill	14 Consolidation Code	15 Order No.

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16 	<b>RECEIVED</b> APR 13 1998 <b>OIL CON. DIV.</b> <b>DIST. 3</b>		17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief   Signature Steven S. Dunn Printed Name Drlg & Prod Manager Title December 23, 1997 Date	
			18 SURVEYOR CERTIFICATION 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 belief.  1986 HUBBARD NEW MEXICO 6844 REGISTERED LAND SURVEYOR  Date of Survey Signature and Seal of Professional Surveyor Certificate Number	

# MERRION OIL & GAS CORPORATION

## TOPOGRAPHIC LOCATOR MAP

### PANTHER NO. 1

990' fsl & 1255' fwl (sw sw)  
Sec 25, T30N, R13W, NMPM  
San Juan County, New Mexico

Panther No 1  
990' fsl & 1255' fwl (sw sw)  
Sec 25, T30N, R13W, NMPM

