

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM 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 & Gas Corporation

3. Address and Telephone No.

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

4. Location of Well (Footages)

At Surface 825' fsl & 923' fwl (sw sw)

This action is subject to technical and procedural review pursuant to 43 CFR 3100.3 and appeal pursuant to 43 CFR 3100.4.

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

18 miles south of Farmington NM, near Chaco Plant

15. Distance from Proposed Location to Nearest

Property or Lease Line, Ft 825'

16. No. of Acres in Lease

320 acres

17. No. of Acres Assigned to This Well

S/320 acres

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

-100'

19. Proposed Depth

-1375'

20. Rotary or Cable Tools

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

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

5968' GR, 5973' RKB

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

Section 4, T26N, R12W

12. County or Parish

San Juan

13. State

NM

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	~1375' KB	~114 sx (169 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% CaCl₂ (36 cuft). Will drill 6-1/4" hole to TD @ approx 1375' 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 39 sx 'B' w/ 2% SMS (81 cuft) and tail in with 50 sx 'B' (59 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 Fruitland through perforated casing. Will fracture stimulate and put on for production test. Drilling operations below surface casing will be conducted with a Bag type BOP in place, minimum working pressure 1000 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 & Prod Manager Date December 14, 1998

(This space for Federal or State office use)

Permit No.

Approval Date

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

Team Lead, Petroleum Management

APPROVED BY:

/s/ Duane W. Spencer

TITLE

DATE

APR 19 1999

THE UNIVERSITY OF CHICAGO
LIBRARY
540 EAST 57TH STREET
CHICAGO, ILL. 60637

THE UNIVERSITY OF CHICAGO
LIBRARY
540 EAST 57TH STREET
CHICAGO, ILL. 60637

2

2

000000

Certificate Number

MERRION OIL & GAS
TOPO LOCATOR
MAP

SLICE NO. 1

825' fsl & 923' fwl (sw sw)
Section 4, T26N, R12W, NMPM
San Juan County, New Mexico

T
27
N

T
26
N

R12W

