

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 1562' fnl &amp; 886' fwl (sw nw)

At proposed prod. zone Same

5. Lease Designation and Serial No.  
NM-98140

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Fifield Com No. 1E

9. API Well No.

30-045-24517

10. Field and Pool, or Exploratory Area

Basin Dakota

71599

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

Section 5, T29N, R11W

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

8 miles west of Farmington, New Mexico

12. County or Parish

San Juan

13. State

NM

15. Distance from Proposed Location to Nearest

Property or Lease Line, Ft 886'

16. No. of Acres in Lease

114.11 acres

17. No. of Acres Assigned to This Well

160 acres (infill) N/293-68

18. Distance from Proposed Location to Nearest Well Drilling, Completed, or Applied for, on this Lease, FT 130'

19. Proposed Depth

-6720'

20. Rotary or Cable Tools

Rotary

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

5849' GR, 5862' RKB

DRILLING OPERATIONS AUTHORIZED ARE  
SUBJECT TO COMPLIANCE WITH ATTACHED

22. Approximate Date Work will Start

February, 1997

## PROPOSED Casing and Cementing Program

SIZE OF HOLE	SIZE & GRADE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" J55	24 ppf	~240' KB 320	~150 sx (177 cuft) Surface
7-7/8"	4-1/2" J55	10.5 & 11.6 ppf	~6720' KB	~1107 sx (2077 cuft) Surface

Merrion proposes to drill 12-1/4" hole with native mud to approx 240' and set 8-5/8" 24# J55 surface casing, cement to surface with ~150 sx 'B' w/ 2% CaCl<sub>2</sub> (177 cuft). Will drill 7-7/8" hole to TD @ approx 6720' KB with low solids non-dispersed mud system. Run open hole surveys. Will set 4-1/2" 10.5 & 11.6 # J55 production casing from TD to surface. Will cement in two stages: first stage with 25 sx 'B' 2% gel (31 cuft) lead slurry followed by 186 sx 'B' w/ 2% SMS (383 cuft) and tail in with 100 sx 'B' 2% gel (122 cuft) cement to fill from total depth across the Dakota pay zone and above the Gallup formation; second stage DV tool will be set at ~4700' below Point Lookout formation and into Mancos shale, will cement with 23 sx 'B' 2% gel (27 cuft) lead slurry followed by 684 sx 'B' w/ 2% SMS (1409 cuft) and tail in with 89 sx 'B' 2% gel (105 cuft). Top of Cement should circulate to surface (will adjust volumes based upon caliper log).

Will test Dakota pay zones 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.

RECEIVED  
JAN 26 1998  
OIL CON. DIV.  
DIST. 3

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM. If proposal to deepen, give present productive zone and proposed 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 5, 1997

(This space for Federal or State office use)

/S/ Duane W. Spencer

Permit No.

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:

/S/ Duane W. Spencer

TITLE

DATE

JAN 22 1998

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 30-045-29517		2 Pool Code 71599		3 Pool Name Basin Dakota		
4 Property Code 22343		5 Property Name Fifield Com			6 Well Number # 1 E	
7 OGRID No. 014634		8 Operator Name MERRION OIL & GAS			9 Elevation 5849'	

10 Surface Location

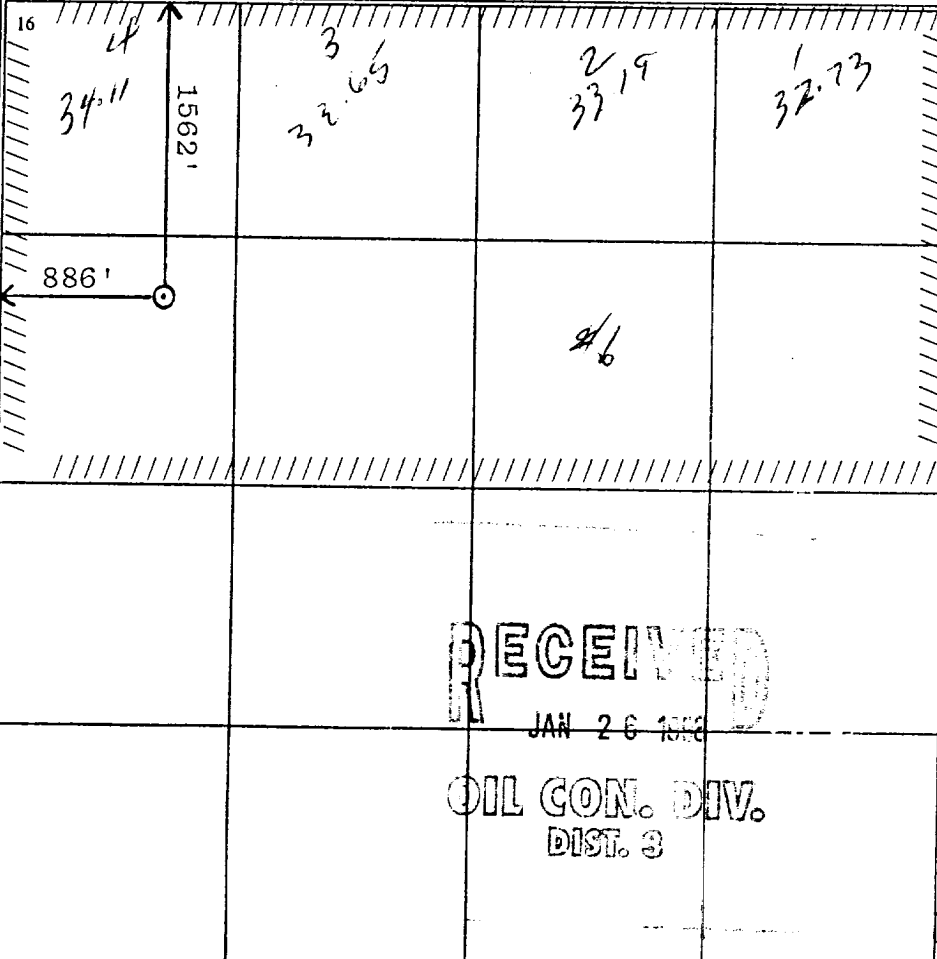
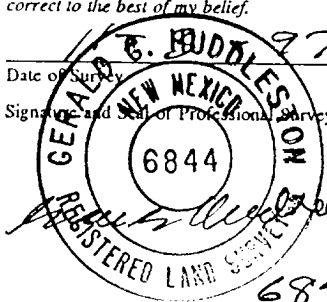
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	5	29 N	11 W	SWNW	1562	North	886	West	San Juan

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 293.68 320	13 Joint or Infill	14 Consolidation Code	15 Order No. Will be communitized
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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 				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 12/8/97 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.  Date of Survey Signature and Seal of Professional Surveyor  Certificate Number 6844					

# MERRION OIL & GAS CORPORATION

## TOPOGRAPHIC LOCATOR MAP

### FIFIELD No. 1E

1562' fml & 886' fml (sw nw)  
Sec 5, T29N, R11W, NMPM  
San Juan County, New Mexico

Fifield No. 1E  
1562' fml & 886' fml (sw nw)  
Sec 5, T29N, R11W

