

Dist: O+6 (BLM); 1-Well; 1-Acctng; 1-Crystal

Form 3160-3
(July 1992)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

FORM APPROVED
OMB NO. 1004-0136
Expires: February 28, 1995

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1. TYPE OF WORK
DRILL ☒ DEEPEN ☐

2. TYPE OF WELL
OIL WELL ☒ GAS WELL ☐ OTHER ☐ SINGLE ZONE ☒ MULTIPLE ZONE ☐

3. NAME OF OPERATOR
Merrion Oil & Gas Corporation 14634

4. ADDRESS AND TELEPHONE NO.
610 Reilly Ave., Farmington, NM 87401-2634 505-327-9801

5. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface 390' fsl & 100' fwl (SWSW)
At proposed prod. zone

6. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
20 miles southwest of Cuba, New Mexico

7. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.
(Also to nearest drig. unit line, if any) 100'

8. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 400' ±

9. ELEVATIONS (Show whether DF, RT, GR, etc.)
6834' GR

10. LEASE DESIGNATION AND SERIAL NO.
NM-058122

11. IF INDIAN, ALLOTTED OR TRIBE NAME

12. UNIT AGREEMENT NAME
Media Entrada Unit

13. FARM OR LEASE NAME WELL NO.
MEU No. 9 7817

14. AP WELL NO.
30-043-20936

15. FIELD AND POOL, OR WILDCAT
Media Entrada 45600

16. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 14, T19N, R3W

17. COUNTY OR PARISH
Sandoval

18. STATE
New Mexico

PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
10-3/4"	9-5/8"	36#	240' ±	150 sxs (177 cu. ft.)
8-3/4"	7"	23#	5460' ±	740 sxs (1378 cu. ft.)

We propose to drill 12-1/4" surface hole to 240 ft. and set 240 ft. of 9-5/8", 36#, J-55 surface casing with 150 sxs Class B (177 cu.ft.) 2% CaCl₂. Will wait on cement 10 hrs, pressure test to 600 psi for 15 minutes. Will drill 8-3/4" hole to 5460 ft. Will run open hole logs. If well appears productive, we will run 5460 ft. of 7", 23#, J-55 casing and cement 1st Stage with 290 sxs (597 cu.ft.) of Class B, 2% Sodium Metasilicate (yield 2.06 cu.ft.), followed by 75 sxs (92 cu.ft.) of Class H with 2% gel (yield 1.22 cu.ft./sx). Will circulate 3-4 hours between stages. Second stage tool in Mancos at ± 2100 ft. Will cement with 275 sxs (567 cu.ft.) of Class B, 2% Sodium Metasilicate (yield 2.06 cu.ft./sx), followed by 100 sxs (122 cu.ft.) of Class H with 2% gel (yield 1.22 cu.ft./sx). Estimated top of cement is at the surface. We will perforate and stimulate as necessary to test the potentially productive intervals.

Additional drilling technical details are attached.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, 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. SIGNATURE Steven S. Dunn TITLE Operations Manager DATE 5/22/96

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

Application approval does not warrant or certify that the 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:

(Original Signed) HECTOR A. VILLALOBOS

AREA MANAGER
RIO PUERCO RESOURCE AREA

JUN 28 1996

APPROVED BY _____ TITLE _____ DATE _____

Hand C-104 for NSL

*See Instructions On Reverse Side

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

API Number <u>30-048-20936</u>		Pool Code 45600	Pool Name Media Entrada
Property Code <u>7817</u>	Property Name MEU		Well Number 9
OGRID No. 014634	Operator Name MERRION OIL & GAS		Elevation 6834'

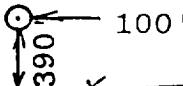

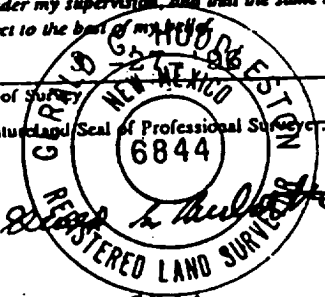
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	14	19 N	3 W	SWSW	390	North	100	West	Sandoval

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 1.60		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

<div>16</div> <div></div>	<div>RECEIVED JUL 12 1996 OIL CON. DIV. DIST. 3</div>				<div>17 OPERATOR CERTIFICATION</div> <div>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</div> <div> Signature</div> <div>Printed Name Steven S. Dunn</div> <div>Title Operations Manager</div> <div>Date 5/02/96 7-10-96</div>	
					<div>18 SURVEYOR CERTIFICATION</div> <div>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</div> <div> Date of Survey Signature and Seal of Professional Surveyor 6844</div> <div>Certificate Number</div>	

MERRION OIL & GAS CORPORATION

DRILLING TECHNICAL PROGRAM

(Attachment to Form 3160-3)

MEU No. 9

390' fsl & 100' fwl (SW SW)

Section 14, T19N, R03W

Sandoval County, New Mexico

1. ESTIMATED FORMATION TOPS:

<u>FORMATION</u>	<u>DEPTH</u>	<u>FORMATION</u>	<u>DEPTH</u>
Cliff House	248'	Dakota	4182'
Menefee	857'	Morrison	4435'
Point Lookout	1858'	Summerville	5167'
Mancos	2064'	Todilto	5207'
Gallup	2755'	Entrada	5257'
Greenhorn	3931'	Total Depth	5460'
Graneros	3962'		

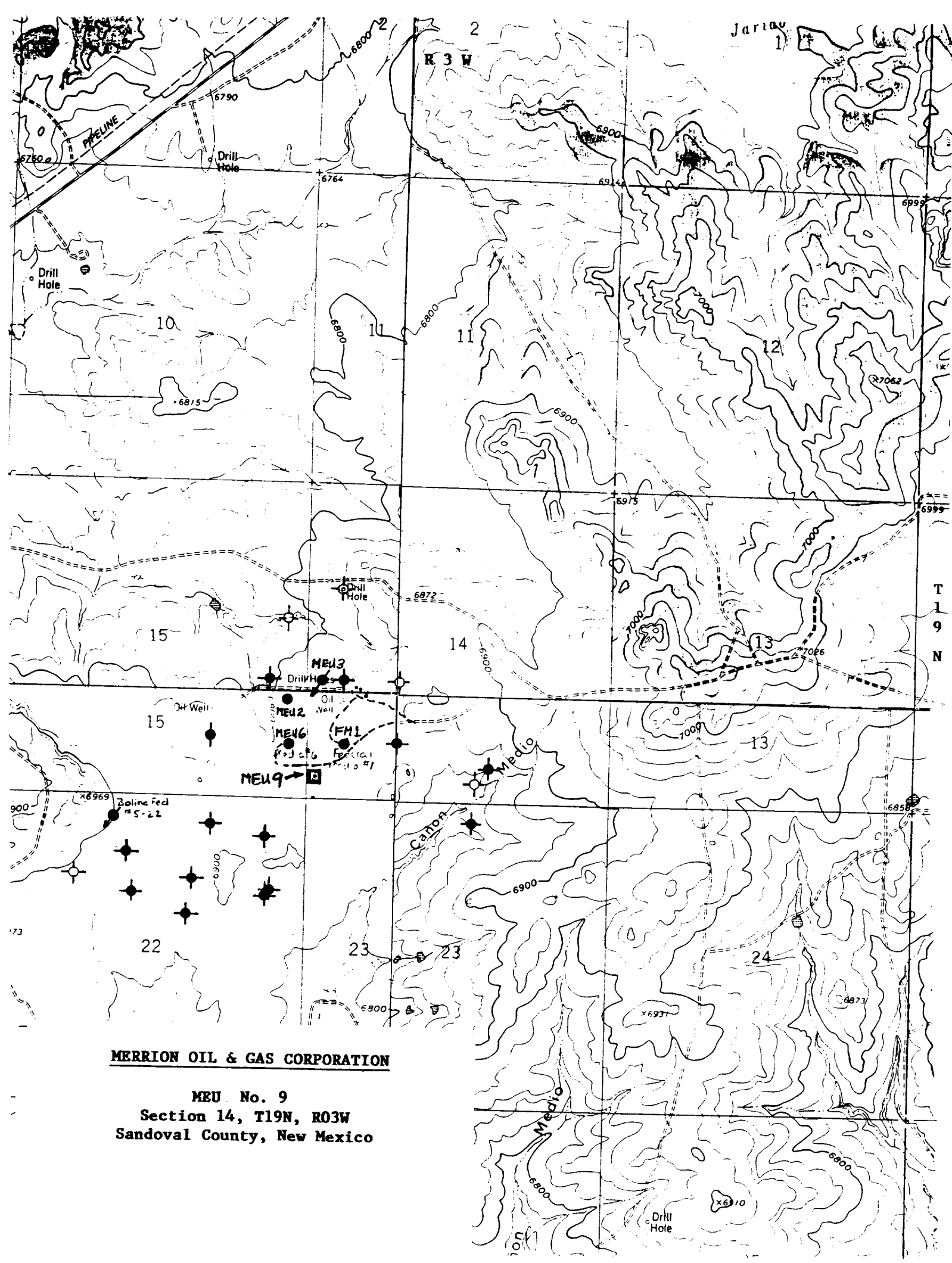
2. WELL CONTROL SYSTEM

- A. Proposed blowout preventer system (schematic drawings attached) is a series 900 double ram with choke and kill manifold, and will be used in 2M service.
- B. Minimum required working pressure rating for BOP stack is 2000 psi.
- C. BOP pressure testing will be conducted at time of installation and prior to drillout of surface casing shoe. The BOP's will be activated at minimum on each trip for a bit and recorded in driller's log.

3. DRILLING MUD PROGRAM

- A. Surface hole will be drilled with fresh water - gel system, lime added to provide viscosity as needed.
- B. A 8-3/4" hole will be drilled to total depth utilizing a low solids, non-dispersed gel-water mud system. Additives such as starch, cmc, soda ash and others will be used to control mud characteristics as necessary. No materials of a hazardous nature will be added to the drilling fluid in hazardous quantities.

Lost circulation materials will be stored on location, as necessary, for use in restoring lost circulation.



MERRION OIL & GAS CORPORATION

**MEU No. 9
Section 14, T19N, R03W
Sandoval County, New Mexico**