SUBMIT IN TRIPLICATE.

(Other instructions on reverse side)

OMB NO. 1004-0136

UNITED STATES

a. TYPE OF WORK	ICATION FOR F	ERMIT TO			5. LEASE DESIGNATION AND SERIAL NO.				
a. TYPE OF WORK		ERMIT TO	00111 00 0000	/	NM-8922/				
a. TYPE OF WORK			APPLICATION FOR PERMIT TO DRILL OR DEEPEN						
b. Tipe of well	RILL X (Re-Entr		97727		6. IF INDIAN, ALLOTTES OF TRISE NAME 7. UNIT AGREEMENT NAME				
WELL X	S. FARM OR LEASE NAME, WELL NO								
. NAME OF OPERATOR	Federal 12 C								
Merrion Oil &	& Gas Corporatio	on			9. AFI WELL NO.				
P. O. Box 840), Farmington, N	W ew Mexico	87499		30-043-20175 10. FIELD AND POOL, OR WILDCAT				
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) Eagle Mesa Entrada									
At proposed prod. so	AND SURVEY OF AREA								
. DISTANCE IN MILES	AND DIRECTION FROM NEA	REST TOWN OR PO	RT OPPICE		Section 12, T19N, R4W				
20 ± miles SW	of Cuba, NM		GI GIFICE		12. COUNTY OR PARIER 13. STATE				
DISTANCE FROM PROP LOCATION TO NEARES	ORED*		i 16. NO. OF ACRES IN LEASE	17 NO	Sandoval N.M.				
PROPERTY OR LEASE : (Also to nearest dri	THE OF	330'	480	TOT	TO THIS WELL 40 20. ROTARY OR CABLE TOOLS				
DISTANCE PROM PROI TO NEAREST WELL, D	CORED LOCATIONS		19. PROPOSED DEPTH	20. 2074					
OR APPLIED FOR, ON TH	ns lease, pt.	200'	≈ 6400'						
. ELEVATIONS (Show wh	ether DF, RT, GR, etc.)		~ 0 + 0 0	<u>-</u>	Rotary 22. APPROX. DATE WORK WILL START*				
6698' GR; 67	11' KB				September 20, 1994				
		PROPOSED CAS	ING AND CEMENTING PROG	RAM	1 September 20, 1994				
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER F	OOT SETTING DEPTH		QUANTITY OF CEMENT				
15"	10-3/4"	40.5#	180'	32	+ sacks				
8-3/4"	7"	4.517			sacks				
6-1/8"	Open-hole			Nor	ne f bottom cement plug at				
up to 40 foot yet chosen). Wil RIH with m (±S25°W) directop. Will dr: Following dri	casing section Will spot kick motor and 6-1/8 ction. Will bu ill a horizonta lling, the dril da formation tes	in 7" at k off cement 'MTB. Wil ild angle t l lateral u ling mud wi	it and pressure testickoff point in Mo plug, dress off a l orient and kick o $\approx 90^{\circ}$ and inters	st repair orrison for and mobil off ceme sect the length in the water	continuity can be continued by the continuity casing at the continuity casing the continuity continuity casing the continuity casing the continuity case of the completion for the completion of the continuity case of the continuit				
ABOVE SPACE DESCRIBED ON DESCRIBED ON DESCRIPTION OF THE PROPERTY OF THE PROPE	S. Dinn	proposal is to deepen, is and measured and tr	give data on present productive zor the vertical depths. Give blowout pre Operations Manage	verser program,	CON DIM possal is to drilt or DATE 8/30/94				
CONDITIONS OF APPROVAL	ot warrant or certify that the app IF ANY: nal Signed) HECTOR A.		APPROVAL DATE uitable title to those rights in the subjection of the subjec	ct lease which wo	auld entitle the applicant to conduct operations there				

*See Instructions On Reverse Side

RIO PUERCO RESOURCE AREA

OCT 3 1994 District I
PO Box 1900, Hobbs, NM 88241-1900
District II
PO Drawer DD, Artenia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV

PO Box 2088, Santa Fe, NM 87504-2088

Property Code

OGRID No.

014634

API Number

-043-20175

State of New Mexico Energy, Minerais & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088 Form C-102
Revised February 10, 1994
Instructions on back
Submit to Appropriate District Office

State Lease - 4 Copies

³ Pool Name

Eagle Mesa Entrada

Fee Lease - 3 Copies

AMENDED REPORT

' Well Number

'Elevation 6698' GR

1

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 Property Name

1 Operator Name

Merrion Oil & Gas Coporation

1 Pool Code

Federal 12C

20430

¹⁰ Surface Location										
UL or lot so.	Section	Township	Range	Lot ida	Feet from the	North/South Lac	Fa	t from the	East/West fine	County
М	12	19N	04W	SWSW	460	south	3.	30	west	Sandoval
11 Bottom Hole Location If Different From Surface										
UL or lot so.	Section	Townskip	Range	Lot ida	Feet from the	North/South fine	Fœ	t from the	East/West line	County
12 Dedicates Acres 13 Joint or Infill 14 Consolidation Code 12 Order No. 40										
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								Printed Name Steven Title Operati Date 10	S. Dunn ons Manager	TFICATION
					CEIV OCT 2 1 19	. 133		was pioaed fro me or under m	m field notes of actually supervision, and the tree of my belief.	il surveys made by
330' 				011	Dalis -	<u> </u>		Signature and	Seal of Professional S	kurveyer:

Merrion Oil & Gas Corporation

WELLBORE SCHEMATIC

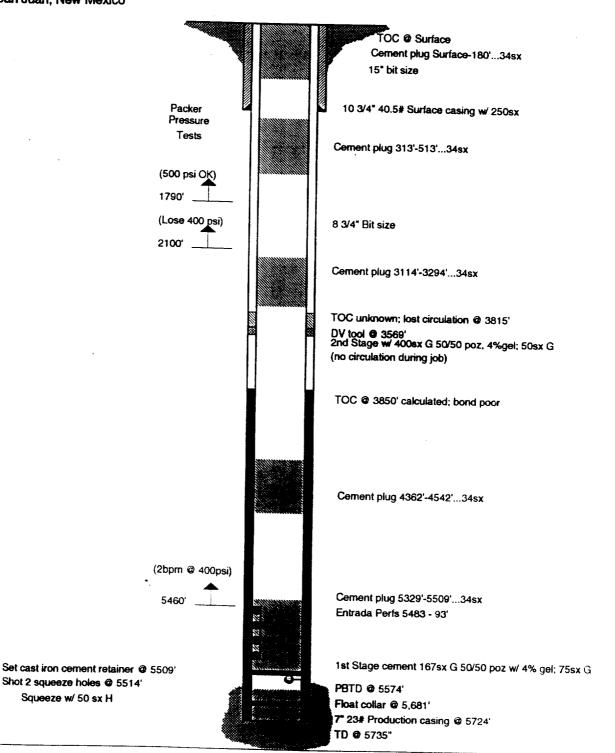
FEDERAL 12 C NO. 1

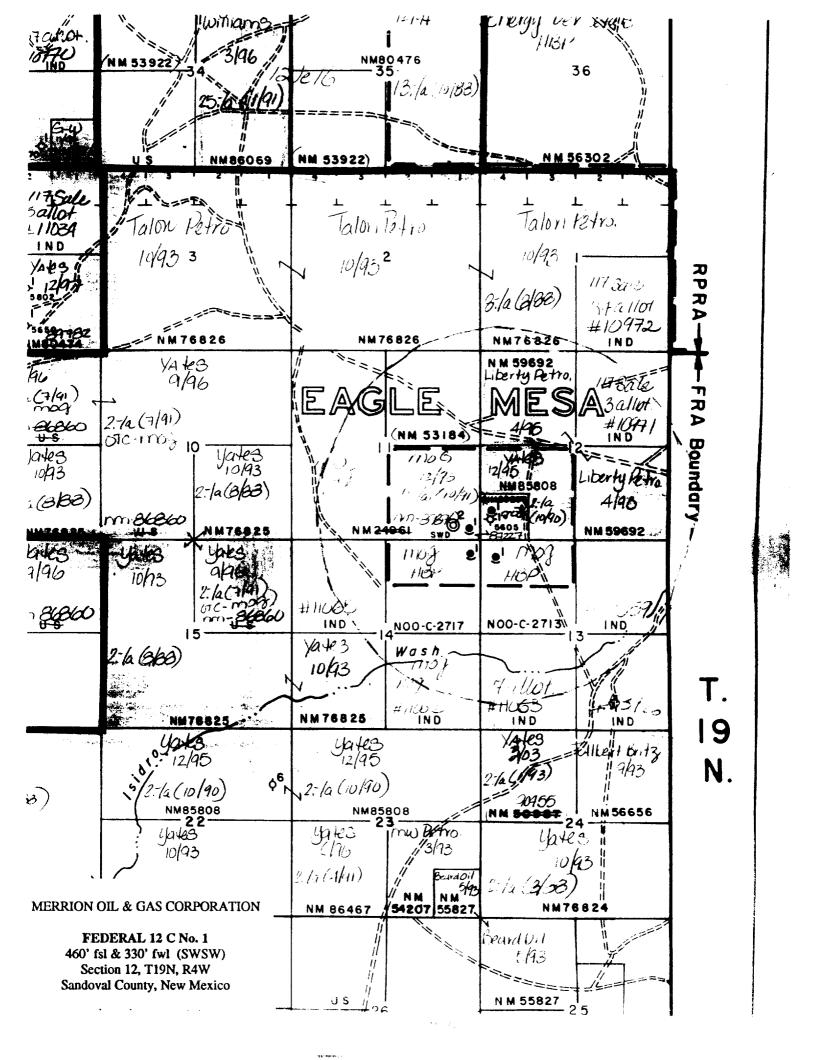
Location: 460' fsl & 330' fwl Sec 12, T19N, R4W San Juan, New Mexico

Squeeze w/ 50 sx H

Elevation: 6698' GL

6710' RKB





MERRION OIL & GAS CORPORATION

DRILLING TECHNICAL PROGRAM

(Attachment to Form 3160-3)

FEDERAL 12 C No. 1 Horizontal Redrill
460' fsl & 330' fwl (SWSW)
Section 12, T19N, R4W
Sandoval County, New Mexico

1. ESTIMATED FORMATION TOPS:

<u>FORMATION</u>	VERTICAL DEPTH
Lewis Shale	Surface
Cliff House	450'
Point Lookout	2255'
Mancos	2402'
Gallup	3244'
Dakota	4490'
Morrison	4618'
Summerville	5452'
Entrada	5483'

2. WELL CONTROL SYSTEM

A. BOP SYSTEM

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. WORKING PRESSURE

Minimum required working pressure rating for BOP stack is 2000 psi. Rationale for this rating is as follows:

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Max anticipated bottomhole pressure (MABHP):

MABHP = 0.433 psi/ft * 5,500' TVD

= 2,382 psi

Anticipated surface pressure (ASP):

ASP = MABHP - (0.22 psi/ft * TVD)

= 2,382 psi - (0.22 psi/ft * 5,500')

= 7172 psi
```

MERRION OIL & GAS CORPORATION

SURFACE USE AND OPERATIONS PLAN

Pursuant to NTL-6 (Attachment to Form 3160-1)

FEDERAL 12 C No. 1 Horizontal Redrill
460' fsl & 330' fwl (SWSW)
Section 12, T19N, R4W
Sandoval County, New Mexico

1. EXISTING ROADS

- A. The proposed well site and elevation plats are attached.
- B. Directions: Take NM 197 west from Cuba, New Mexico 15-1/2 miles to Johnson Trading Post. Right on paved road that tees off. 2-1/2 miles, left into Central Battery on Hilltop.
- C. All roads to location are indicated on attached maps.
- D. Improvement and maintenance: Maintenance will be performed as required to keep existing roads in same or better condition.

2. PLANNED ACCESS ROADS

No new or upgraded access road is required. (Shown on topographic map enclosed.)

3. LOCATION OF EXISTING WELLS

For all known existing wells within one mile radius of location, see attached lease/well location map.

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

- A. Within a one mile radius of location, the following existing facilities are owned or controlled by lessee/operator:
 - 1) Tank Batteries: Eagle Mesa Field
 - 2) Production Facilities: Eagle Mesa Field
 - 3) Oil Gathering Lines: Eagle Mesa Field
 - 4) Gas Gathering Lines: None
 - 5) Injection Lines: None
 - 6) Disposal Lines: Eagle Mesa Field
- B. If production is obtained, no new production facilities will be required:
 - 1) Any necessary pits will be fenced on three sides during drilling and the fourth side upon completion.
 - 2) Rehabilitation whether well is productive or dry, will be made on all unused areas in accordance with BLM or appropriate agency recommendations.

ggargen e

