#### SUBMIT IN TRIPLICATE.

(Other instructions on reverse side)

FORM APPROVED OMB NO. 1004-0136

UNITED STATES

	DEPARTMEN	T OF THE	INTEDIOD			experes: Feb	пату 28, 1995
					- Armeria	5. LEASE DESIGNATIO	N AND SEEPL NO.
	BUREAU UI	LAND MANA	GEMENT	179	R. 2	NM-12012	
APPL	JCATION FOR P	ERMIT	DRILLE OR DE	EPEN		6. IF INDIAN, ALLOTT	ER OR TRIBE NAME
la. TYPE OF WORK				107	19 1 6 E	5 19 19 <b>9 9</b>	
	RILL X	DEEPEN	SEP 1 2 1995	NTRY		. 7. UNIT AGREEMENT	NAME
b. TIPE OF WELL	PAS —	ெர	COM LANG	ירו רזי דור רזי		Media Entra	da Unit
	VELL OTHER	<u> </u>	L COME DI	CHOPE		6. FARM OR LEASE NAME V	VELL NO.
	S Con Commonati		Distr. 3			MEU No. 2	7817
- ADDRESS AND THE STRONG NO	& Gas Corporati	on 14634				9. AFI WELL NO.	
	40, Farmington,	Nort Marria	97400			30-043-	200 87
						10. FIELD AND POOL.	OR WILDCAT
	Report location clearly and		th any State requirem	ents.*)	7-11-	Media Entra	da 45600
1650.	' fs1 & 330' fe1	(NE SE)				11. SEC., T., R., M., OR AND SURVEY OR	BLK.
At proposed prod. 201	ae					AND BURNET OF	LEA
± 154	0 fs1 & 1105' fw	1, Section	14 (NW SW)	)	<u> </u>	Section 15,	T19N, R3W
	AND DIRECTION PROM NEA				7	12. COUNTY OR PARIS	H   13. STATE
23 miles Sou	thwest of Cuba,	New Mexico	)			Sandoval	New Mexico
5. DISTANCE FROM PROP LOCATION TO NEARES	T		16. NO. OF ACRES IN	LEASE		ACRES ASSIGNED	
(Also to nearest dri	LINE, FT. g. unit line, if any)	330'	80		4(	) 18 mett	
S. DISTANCE PROM PROF. TO NEAREST WELLS	OBED LOCATION®		19. PROPOSED DEPTH		20. ROTAR	OR CABLE TOOLS	
OR APPLIED FOR, ON TH	IS LEASE, FT.	750'	6090' MD; 52	215' TV	710	Rotary	
. ELEVATIONS (Show wh	sther DF, RT, GR, etc.)		<del></del>		· · · · · ·	22. APPROX. DATE W	ORE WILL START'
6807' GR;	6821' KB	<u></u>				August, 199	5
<b>i</b> .		PROPOSED CASI	NG AND CEMENTING	PROGRA	м		
SIZE OF ROLE	ORADE, SIZE OF CASINO	WEIGHT PER P	OOT SETTING	DEPTH	<u> </u>	QUANTITY OF CEME	TT.
(Existing ca	sing strings de	picted on a	ttached schem	atic)	-		
6-1/2"	4-1/2" N80	11.6#	± 5500'		100 sx	(118 cu.ft.	)
This action to outly a	to technical and				-	<del></del>	
procedural neviaer per	suant to 43 CFR 3165	.3	1		SUBJECT	OPERATOR PROPERTY	DYED ARE
nd appeal purauant	to 43 CFR 3165.4.				"GENEDAL	O COMPLEXION PT	el ATTACHED
rion proposes to re-	enter the MELLNo.	) and alaan au	to biole affinition	-4   405	OLINE WAL	RECHIRCE MERCENS	
across kick off no	enter the MEU No. 2	Co foot of 7"	to kick off point	at ± 4850	O KB. W	Ill run directional	survey. May r
sen) Will snot kick	int. Will mill up to 6	or rection / ca	ising section at Kic	:K-OII po	oint in Mor	rison formation (	depth not yet
bit Will orient on	c-off cement plug, dr	ess off and mo	direction eq	luipment	t. Will run	in hole with muc	d motor and 6-
on. will orient an	d kick off of cement	plug in a easte	rly direction (± S	34°E). V	Will build a	ingle and intersec	et Entrada top a
cai norizontai. Wil	i continue to dulid ar	igle to ≈ 90°.	May run 4-1/2" lir	ner throu	igh huild sa	ection and cemen	t in place with
quate cement to circ	ulate to liner top insi	ide of 7" casing	g. Will set liner to	on a mini	imum of 5	0 feet into 7" cas	ing Ifalinani
will arill anead with	a 3-7/8" bit; it not a	6-1/8" bit will	continue to be us	sed. Will	l drill a ho	rizontal lateral ur	1 500 foot in
un in a easteriy dire	ction. Following dri	lling, no open .	hole logs are plan	ned. Tl	he drilling	mud will be disp	laced with water
ther suitable comple	etion fluid and the Er	ntrada formatio	on will be tested for	or sizing	of a subm	ersible numn (O	ther technical
ils attached.)		-	•	8		Famb. (O	or toommeal
•							
llbore schematic att	tached.)						
	<i></i> ,						

Steven S. Dunn	Operations Manager	<i>A</i>	-17-90
s space (or Federal or State office use)		**** <del></del>	
•			
11T NOcation approval does not warrant or certify that the applicant holds legal or			o conduct operat
ITTIONS OF APPROVAL, IF ANY:			ope a
(Original Signed) HECTOR A. VILLALOBOS	AREA MANAGER RIO PUERCO RESOURCE AREA	SEP	8 1995

District ! PO Box 1988, Hobbs, NM 88241-1989 State of New Mexico
Energy, Masses & Natural Resources Department

Form C-102 Revised February 10, 1994

Instructions on back

District II PO Drawer DD. Artesia, NM 88211-6719

District III

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

Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

District III 1000 Rio Brasso District IV	Rd., Aztec,	NM 87410		Sa	inta Fe, NM	87504-2088		RECEL		Fee	Lease - 3 Copie
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' Property					' Property	Name					Well Number
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# Merrion Oil & Gas Corporation Wellbore Schematic

MEU No. 2

#### Current Wellbore Configuration

Location: 1650' fsl & 330'fel (ne se)

Sec 15, T19N, R03W

Sandoval Co, New Mexico

Date:

July 10, 1995

Elevetion: 6,807 GL 6,821 RKB

Prepared by: Steven S. Dunn

Top of Cmt @ Surface

Bit Size - 13 1/4"

Bradenhead Squeeze w/ 13 sx

TOC @ 170' (Calculated)

10 3/4" 32.75# Surface Csg @ 208' KB w/ 140sx; 165 cuft

Cement Plug Surface - 415' w/ 75 sx

Bit Size 8 3/4"

2 Squeeze holes @ 2,200°; Sqz w/ 300 sx

Cement Plug 2,637'-2,810' w/ 35 sx

TOC @ 2,950' (Calculated)

Cement Plug 4,047'-4,220' w/ 35 sx

Cement Plug 4,311'-4,484' w/ 35 sx

Cement Plug 5,290'-5,117'

Entrada Perfs: 5,218' - 40' 2pf Squeezed w/ 50 sx

7" 20 & 23# J55 Production Csg @ 5,320' w/ 350sx OPBTD @ 5,290'KB? TD @ 5,320'KB

#### WELL DATA:

CAPACITIES: 7" 23# - 0.0394 bbl/R 2 3/8" 4.7# - 0.00387 bbl/R 7" X 2 3/8" - 0.0339 bbl/R

Lewis Shale - at surface La Ventana - 350' Menefee -1,105' Pt. Lookout - 1,888' Mancos - 2050' Gallup - 2,760' Greenhorn - 3,900' Graneros - 3,970' Dakota - 4,165' Morrison - 4,315' Summerville - 5,105' Todilto - 5,193' Entrada - 5,220'

# **MERRION OIL & GAS CORPORATION**

# **DRILLING TECHNICAL PROGRAM**

(Attachment to Form 3160-3)

MEU No. 2

1650' fsl & 330' fel (NESE) Section 15, T19N, R3W Sandoval County, New Mexico

## 1. ESTIMATED FORMATION TOPS:

<b>FORMATION</b>	DEPTH	<b>FORMATION</b>	DEPTH
Lewis Shale Cliff House Menefee Point Lookout Mancos Gallup	Surface 350' 1105' 1888' 2050' 2760'	Graneros Dakota Morrison Todilto Entrada Total Depth	3970' 4165' 4315' 5193' 5220' 5230'
Greenhorn	3900'		

### 2. WELL CONTROL SYSTEM

- A. Proposed blowout preventer system (schematic drawings attached) is a series 600 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. 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. A 6-1/8" or 3-7/8" hole will be drilled to total depth utilizing a low solids, non-dispersed gelwater 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.

INTERVAL .	MUD SYSTEM	WEIGHT #/GAL	VISCOSITY SEC/QT	WATER LOSS CC	
4850'±-6090'±		Gel-Wtr ND	8.4-9.0	28-45	≤ 12

C. Mud trip monitoring will be done visually.

## 4. HAZARDS

- A. No abnormal pressure is anticipated. However, 2M BOPs will be used from KOP to total depth. Normal pressure gradient is <0.38 psi/ft of depth in this area. .
- B. Lost circulation is not expected to be a major problem in this area. However, lost circulation materials will be stored on location during drilling.
- C. No  $H_2S$  is expected. However, should  $H_2S$  be found during drilling, detection and warning equipment will be installed.
- D. The hole will be intentionally deviated to horizontal. Directional surveys giving hole inclination and direction will be run a minimum of every 100 feet..

## 5. LOGGING AND TESTING

- A. No open hole logs are planned.
- B. No drill stem tests will be run.
- C. No core is anticipated.
- D. Plans call for using a mud logging unit during drilling.

7/11/95 Page 2



