UNITED STATES DEPARTMENT OF THE INTERIOR &BUREAU OF LAND MANAGEMENT

FORM APPROVED Budget Bureau No. 1004-0136 Expires: February 28, 1995

APPLICAT	ION FOR PE	RMIT TO	DRILL OR	DEEPI	EN	5. Lease Designation and Serial No. NM-106650	
a. Type of Work		;,	04 MAY 2			6. If Indian, Allottee or Tribe Name	
b. Type of Well	L 🗵	DEEPEN [DIO ALBU	JOUEROL	JE. N.M.	7. If Unit or CA, Agreement Designation	
Oil Well Gas Well	Other		Single Well	Multiple 2	one		
	Oil & Gas Corpo	oration				8. Well Name and No. Bunny Tracks No.	
-	y Ave Farmington I 327-9801	NM 87401	3F	678	a	9. API WEIL NO.	
Location of Well (Footages) At Surface 1855'	' fnl & 670' fwl (sw	nw)	Book	1 2005		10. Fleld and Pool, or Exploratory Area Gavilan-PC/Basin Fruitle R Lanco, Scoth	
At proposed prod. zone	Same				THE STATE OF	11. Sec., T., R., M., or BLK. and Survey or Area Section 14, T24N, R2W	
14. Distance in Miles and Direction			2000	761812		12. County or Parish 13. State NM	
	y 1.5 miles northea			JCallbarra			
15.Distance from Proposed (Also t Location to Nearest		16.No. of Acres in		1		Assigned to This Well	
Property or Lease Line, Ft	670'		acres			320 acres N/2 FC 160 N W/	
18 Distance from Proposed Location To Nearest Well Drilling, Comple	eted,	19. Proposed Dept		2	20. Rotary or Cable Tools Rotary		
Or Applied for, on this Lease, FT	· · · · · · · · · · · · · · · · · · ·	~35	00'				
21.Elevations (Show whether DF, R	T, GR, etc) 7304' GR, 7309' I	RKB				Pate Work will Start 15, 2004	
	PRO	POSED CASIN	NG AND CEMENTING	PROGRAM		10, 2004	
SIZE OF HOLE	SIZE & GRADE OF CAS	ING	WEIGHT PER FOOT		NG DEPTH	QUANTITY OF CEMENT	
12 1/4"	9 %" J55	32.3		~240' K		~150 cuft (100% excess)	
8 3/4" 6 1/4" Merrion proposes to	7" J55 4 ½" J55 Liner o drill 12 ½" hole with spud	23 pp 11.6 mud to ~240' an	of ppf d set 9 %" 32.3# J55 surfa	~3260' l ~3500' l	KB KB	~150 cuft (100% excess) ~784 cuft (60% excess) ~85 cuft (60% excess) e with ~150 cuft (100% excess). Will	
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State of New Mexico Energy, Minerals & Mining Resources Department OIL CONSERVATION DIVISION 2040 South Pacheco

							outh Pache o. NM 875			AMBNDED REPORT
				WELL	LOCAT	ION AND A	CREAGE (DEDICATION	Pool Name	
7 . 5	APA Number Pool Code				1					
30.03	7-0	29387 71629						Basin		
Property (Sople .	Property Nome						Well Number		
5451	4_	BUNNY TRACKS					l l			
OCEAD N	x'						Sevation			
0146	34	<u></u>			M	ERRION OIL				7304
	 1						o Location	·	·	
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E	14	24 N	$\frac{1^{2}}{1^{2}}$	W.	SW NW	1855'	NORTH	670	WEST	RIO ARRIBA
	. ~ .					Hole Location			1 - Au	
UL or Lot	Sec.	Tup.	"	₹ga.	Lot ldn.	Feer from>	North/South	Feel from>	East/West	County
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Z					***************************************				on the	vis plat was platted from field s of actual surveys made by me near my supervision, and that the

5265" **

Z

N 89'51' W --

same is true and correct to the best of my belief.
Date of Survey

5/19/04

5280

Signature and Seal of Professional Surveyor THE HEXICO 6844

ERED LAND SUP

State of New Mexico Energy, Minerals & Mining Resources Department OIL CONSERVĂTION DIVISION 2040 South Pacheco

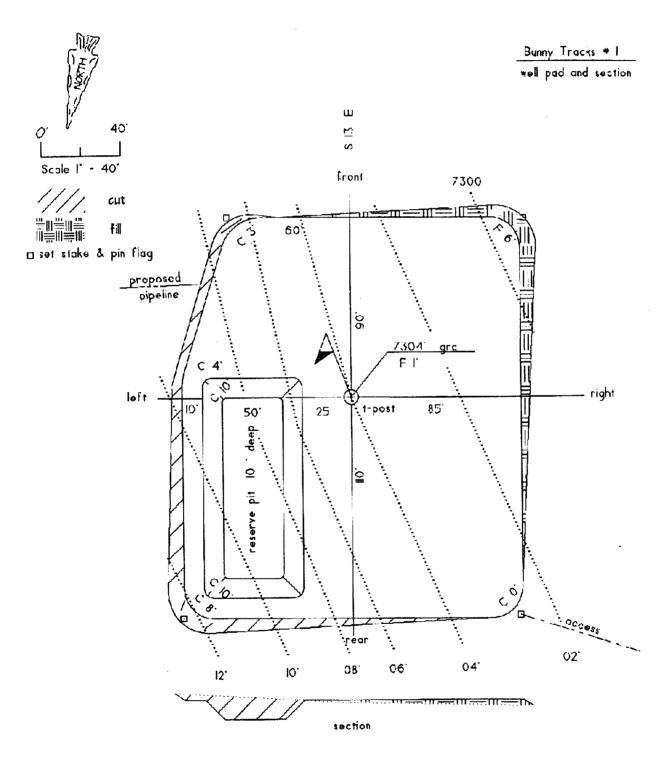
Santa Fe. NM 87505 MENDED REPORT WELL LOCATION AND ACREAGE DEDICATION PLAT APA Number Blanco-Gavilan Pictured Cliffs South 143977360 Well Number Property Code Property Nome BUNNY TRACKS OGRID No. Bavation Operator Name MERRION OIL & GAS 7304 014634 Surface Location Rga. Feet from North/South U or Lot Lot lan. Feet from East/West County Tup. RIO ARRIBA 14 24 N 2 W. SW NW NORTH 6701 E 1855 WEST Battom Hole Location of Different From Surface Feet Irons North/South U or Lot Feet from> East/West Sec. Tup. Rge. Lot lon County Dedication Joht ? Order No. Consolidation 160 NO ALLOWABLE WILL ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION N 89 SI W .. 5265" ** · BLM/GLO OPERATOR CERTIFICATION • calculated I hereby certify that the information contained herein is true and complete to the best of my knowledge and balief. Signature NM-106653 Printed Name Connie Dinning 2640 WGS 84 670 **Production Engineer** 3618'46.33" N 107 0133.26° W Date E May 25, 2004 SURVEYOR CERTIFICATION I hereby certify that the vel location on this plat was platted from field notes of actual surveys made by me Z or under my supervision, and that the same is true and correct to the best \bigcirc of my betef. Date of Survey Ξ 5/19/104 Signature and Speal **Professional** EN MEXIC 6844

5265" **

N 89'51' W --

6. CONSTRUCTION MATERIALS

A. No construction materials are needed for drilling and access roads into the drilling location. The existing surface materials will be sufficient and will be provided by the Dirt Contractor as needed.



- B. No construction materials will be taken off Federal or Indian lands.
- C. No surface materials for construction of access roads are required.
- D. All major access roads presently exist as shown on topographic map.

MERRION OIL & GAS CORPORATION

DRILLING TECHNICAL PROGRAM

(Attachment to Form 3160-3)

Bunny Tracks No. 1

1855' fnl & 670' fwl (sw nw) Section 14, T24N, R2W, NMPM Rio Arriba County, New Mexico

1. ESTIMATED FORMATION TOPS:

Formation	Depth-MD
Undiff. Tertiary	Surface
Nacimiento	1570'
Ojo Alamo	2875'
Kirtland	3140'
Fruitland	3275'
Pictured Cliffs	3348'
Total Depth	3500'

2. WELL CONTROL SYSTEM

- A. Proposed blowout preventer system (schematic drawing follows) is a double-ram type preventer, and will be used in 1000 psi service.
- B. Minimum required working pressure rating for BOP stack is 1000 psi. Maximum anticipated bottomhole pressure = 910 psi. Well Control Anticipated Surface Pressure (ASP) = 902 psi (0.22 * 3500') = 140 psi, assuming a partially gas cut column per BLM guidelines.
- C. BOP pressure testing will be conducted at time of installation and prior to drillout of surface casing shoe. Ram type preventer will be tested to 500 psi. The BOPs will be activated on each trip for a bit and recorded in the driller's log. A choke manifold will be installed (Refer to the enclosed schematic drawing). Working pressure for choke manifold is greater than 2000 psi. In addition, a kill line from the mud pump will be installed.
- D. Stabbing valves for drill pipe and drill collars will be available on the rig floor. A Kelly cock valve will be installed.
- E. Anticipated formation pressures average 0.26 psi/ft gradient and formation fracture initiation pressures are anticipated to exceed the maximum mud weight of 9.2 ppg except through the depleted Pictured Cliffs pay interval where air drilling will be used.

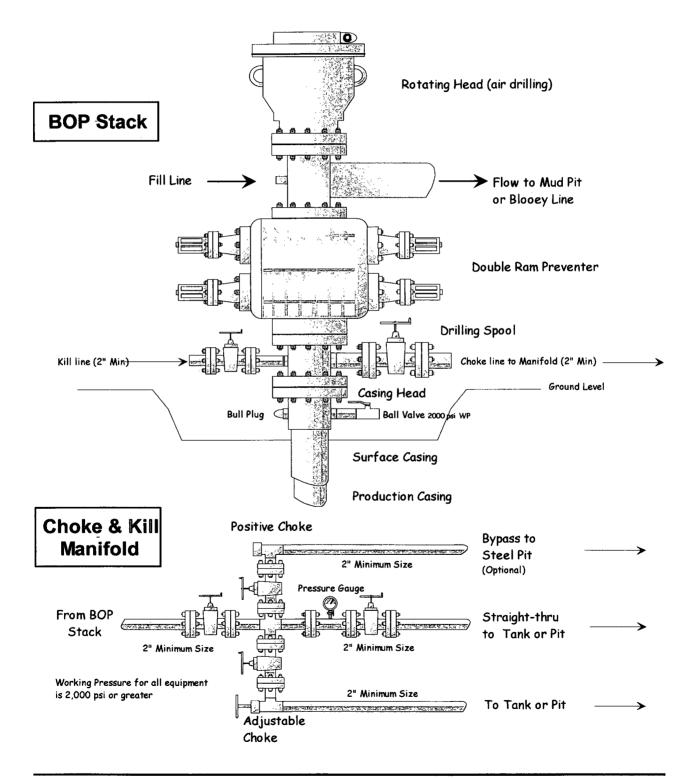
3. DRILLING MUD PROGRAM

- A. A 12 1/4" surface hole will be drilled with fresh water system, lime and gel added to provide viscosity as needed.
- B. An 8 3/4" hole will be drilled to ~ 3260' utilizing a low solids non-dispersed mud system. Additives such as starch, cmc, 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.

Merrion Oil & Gas Corporation

Well Control Equipment Schematic for 1M Service

Attachment to Drilling Technical Program



5/25/2004

Lost circulation materials will be stored on location.

Mud weighting materials will be stored on location.

INTERVAL A	MUD SYSTEM	WEIGHT #/GAL	VISCOSITY SEC/QT	WATER LOSS CC
0 – 240'	Native	< 9.0	35-55	NA
240' - 3260'±LSNI	8.6-9.2	28-45	NA	
3260' - 3500'±	Air	NA		

Maximum anticipated mud weight is 9.2 lb/gal (0.48 psi/ft).

C. Mud trip monitoring will be done visually.

4. HAZARDS

- A. Abnormal Pressure is not expected to be a problem because air drilling will be utilized through potential lost circulation zones.
- B. Lost circulation is not expected to be a problem in this area. Lost circulation materials will be stored on location and mud weights will be controlled.
- C. No H₂S is expected. However, should H₂S be found during drilling, detection and warning equipment will be installed.
- D. Unintentional hole deviation is not expected to be a problem. Single shot surveys giving hole inclination will be run a minimum of every 500 feet.

5. LOGGING AND TESTING

- A. An induction, neutron-density log may be run in the intermediate casing hole across zones of interest. In addition, an induction-density log will be run from total depth back to intermediate casing.
- B. Drill stem tests will not be run.
- C. No coring is anticipated.
- D. A mud logging unit may be used during drilling.

6. CASING PROGRAM

A. Casing:

	Description	Тор	Bottom	
1	9 %" 32.3 ppf J55	Surface	240 ft ±	
2	7" 23 ppf J55	Surface	3260 ft ±	
3	4 ½" 11.6 ppf J55	3130 ft ±	3500 ft ±	

Merrion requests that a variance be granted to allow us to set surface casing at the proposed depth of \pm 240' because this setting depth has been shown to be adequate as demonstrated by the inumberable

5/26/2004

wells that have been previously drilled in the area without incident. In addition, the potential for a gas kick is very low.

Estimated formation pore pressure gradient is ~0.26 psi/ft.

B. For a proposed wellbore schematic see below:

Merrion Oil & Gas Corporation
Wellbore Schematic
Bunny Tracks No. 1
Proposed Wellbore Configuration

