UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

APPLICATI	ON FOR PE	RMIT TO D	RILL OR I	DEEP	EN	5 Lease Designation and SF-078899	
Type of Work DRILL Type of Well	— <u> </u>	DEEPEN [_070		9 am II: I sg <u>io</u> n, NA	6. If Indian, Allottee or 1 7. If Unit or CA, Agreen	
Oil Well Gas Well Name of Operator	Other		Single Well	Multiple 2	Zone	8. Well Name and No.	
Merrion Oil & Gas Corporation 3. Address and Telephone No.					Blues Com	No. 1	
	Ave Farmington l 327-9801	NM 87401				9. API Well No.	232
Location of Well (Footages) At Surface 680' fs	sl & 1680' fwl (se s	sw)				10. Field and Pool, or Ex Basin Fruitland	platory Area
At proposed prod. zone Same				11. Sec., T., R., M., or Bi and Survey or Area MSection 21, T2			
4. Distance in Miles and Directions 22 miles south	from Nearest Town or Post Of		Plant			12. County or Parish San Juan	13. Stete
5. Distance from Proposed (Also to Location to Nearest	nearest drig. unit line, if any)	16.No. of Acres in Lease			17.No. of Acres Assi	gned to This Well	
Property or Lease Line, Ft	680'		320 acres			acres W/>	
B Distance from Proposed Location to Nearest Well Drilling, Complete		19. Proposed Depth			20.Rotary or Cable Tools		
or Applied for, on this Lease, FT	-2515'	~1540'			Rota	ary	
21. Elevations (Show whether DF, RT, GR, etc) 6206' GR, 6211' RKB				oon as permitted			
tara tara tara tara tara tara tara tara	PRO		ND CEMENTING	PROGRA		to the same of the	ng ding a
SIZE OF HOLE 8-3/4"	SIZE & GRADE OF CAS 7" J55	ING WEIG 20 ppf or	r greater	~120' K	ING DEPTH	QUANTITY OF ~30 sx (35 cuft)	CEMENT
6-1/4"	4-1/2" J55		or greater	~1540′		~124 sx (200 cuff	t)
does not reach surface Will test Fruitle below surface casing w technical details attach A pipeline rou ORILLING OPS	Run open hole sur 'B' w/ 2% SMS (126 will be recorded and ames based upon car spacer will be pume, a temperature log and through perforation with the approval is also particular authorized CAPLIANCE WITH ATTA	veys. Will set 4- cuft) and tail in valued to the submitted to the diper log if availal ped ahead of the or cement bond le ted casing. Will for a Bag type BOF proposed as part of	1/2" 10.5 ppf J55 vith 63 sx 'B' (74 BLM after comp ble). lead slurry to pro og will be run to or racture stimulate in place, minim	production of the event mudetermine and put a um working the end	on casing (or nent to fill from the job. Top of the job. Top of the job. Top of come on for producting pressure of the job of the jo	greater) from TD on total depth to suit of Cement should control of the cement. It. It is not est. Drilling of the cement of the cement. It is not est. Drilling of the cement of the cement. It is not est. Drilling of the cement of the cemen	to surface rface. A circulate to If cemen operations
IN ABOVE SPACE DESCRIBE PRO 24. I hereby certify that the forego	DPOSED PROGRAM: If propos			I new productiv	ve zone.	COPIES: BLM+5, W	
(This space for Federal or State of Permit No.	office use						



State of New Mexico Energy, Minerals & Mining Resources Department OL CONSERVATION DIVISION 2040 South Pacheco Santa Fe NM 87505

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Te. NM 87505

Santa Fe. NM 87505 MENDED REPORT WELL LOCATION AND ACREAGE DEDICATION PLAT Paol Code APA Number Paol Name **Basin Fruitland Coal** 71629 Property Code **Property Name** Well Number **Blues Com** OORED No. Bevation Operator Name 014634 MERRION OIL & GAS 6206 Surface Location Feet from> North/South UL or Lot Sec. لما اما Feet from> County. Tep. Rga East/West Μ 21 WEST 26 N] | W. **SESW** 680 SOUTH 1680 SAN JUAN Bottom Hole Lacation If Different From Surface UL or Lat Lat lan Feet from North/South Feet from County Sec. Tup. Rga East/West Dedication Joint ? Order Na. Consolidation 320 Ac NO ALLOWABLE WILL ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNT HAS BEEN APPROVED BY THE DIMSION S 89 59' W 5263 The second of th OPERATOR CERTIFICATION I hereby certify that the information 1055 contained herein is true and complete to the best of my knowledge and belef. Signature 1545' Jazz Com No. 1 (Proposed) Printed Name Connie S. Dinning 5223 Title SF-078899A **Production Engineer** Date December 19, 2003 SURVEYOR CERTIFICATION I hereby certify that the well location on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the SF-078899 same is true and correct to the best of my belief. ₩GS 84 Date of Survey 36"28"05.36" N 08 00 4518" W 0.54 Signature grid NAD 27 NM SP Professional Sur 447,487 1.989.700 684 Blues Com No. 1

S 89 59 W

2639

25.0

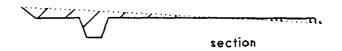
1630

\$ 89 29

8

ERED LAND

ш . 83 N 40 front cut grade to balance till 06. 🗆 set stake & lath 75. C 0. right left 75 04 75 rear



MERRION OIL & GAS CORPORATION

DRILLING TECHNICAL PROGRAM

(Attachment to Form 3160-3)

Blues Com No. 1

680' fsl & 1680' fwl (se sw) Section 21, T26N, R11W, NMPM San Juan County, New Mexico

1. ESTIMATED FORMATION TOPS:

<u>FORMATION</u>	DEPTH KB	EST PSI
Undif Tertiary	Surface	
Ojo Alamo	450'	
Kirtland Shale	587'	
Fruitland	1010'	
Main Fruitland Coal	1370'	356 psi
Pictured Cliffs	1390'	361 psi
Total Depth	~1540'	-

2. WELL CONTROL SYSTEM

- A. Proposed blowout preventer system (schematic drawings attached) is a Bag type preventer, and will be used in 1000 psi service. Merrion requests a waiver from O&G Order No. 2 requirements for 2M service because the well is shallow and low pressure, with the surface pressure not expected to exceed ~400 psig at the wellhead. Such moderate conditions lower any chance of uncontrolled gas flow.
- B. Minimum required working pressure rating for BOP stack is 1000 psi. Maximum anticipated bottomhole pressure = 400 psi. Well Control Anticipated Surface Pressure (ASP) = 400 psi (0.22 * 1540') = 61 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. Bag type preventer will be tested to 250 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 schematic drawing). Working pressure for choke manifold is minimum 1000 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. Merrion requests an exception to the requirement for an upper kelly cock valve to be utilized during drilling; pull-down type rig to be used will not allow use of kelly cock valve.
- E. Anticipated formation pressures average 0.26 psi/ft gradient and formation fracture pressures are anticipated to exceed the maximum mud weight of 9.1 ppg.

3. DRILLING MUD PROGRAM

- A. A 8-3/4" surface hole will be drilled with fresh water system, lime and gel added to provide viscosity as needed.
- B. A 6-1/4" hole will be drilled to total depth 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.
 Lost circulation materials will not be stored on location.
 Mud weighting materials will not be stored on location.

		WEIGHT	VISCOSITY	WATER
<u>INTERVAL</u>	<u>MUD SYSTEM</u>	#/GAL	SEC/QT	LOSS CC
0 - 120'	Native	< 9.0	35-55	NA
120' - 1540' ±	LSND	8.6-9.1	28-45	NA
Maximum anticip	ated mud weight is 9.1	lb./gal (0.47 psi/ft).		

C. Mud trip monitoring will be done visually.

4. HAZARDS

- A. Abnormal Pressure is not expected to be a problem in this area.
- B. Lost circulation is not expected to be a problem in this area.
- 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, Density Log will be run from TD across zones of interest.
- 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	Top	Bottom
1	7" 20# J55 or greater	Surface	120 ft ±
2	4-1/2" 10.5# J55 or	Surface	1540 ft ±
	greater		

Merrion requests that a variance be granted to allow us to set surface casing at the proposed depth of \pm 120' because this setting depth has been shown to be adequate as demonstrated by the innumerable 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. A proposed wellbore schematic is attached.

Merrion Oil & Gas Corporation

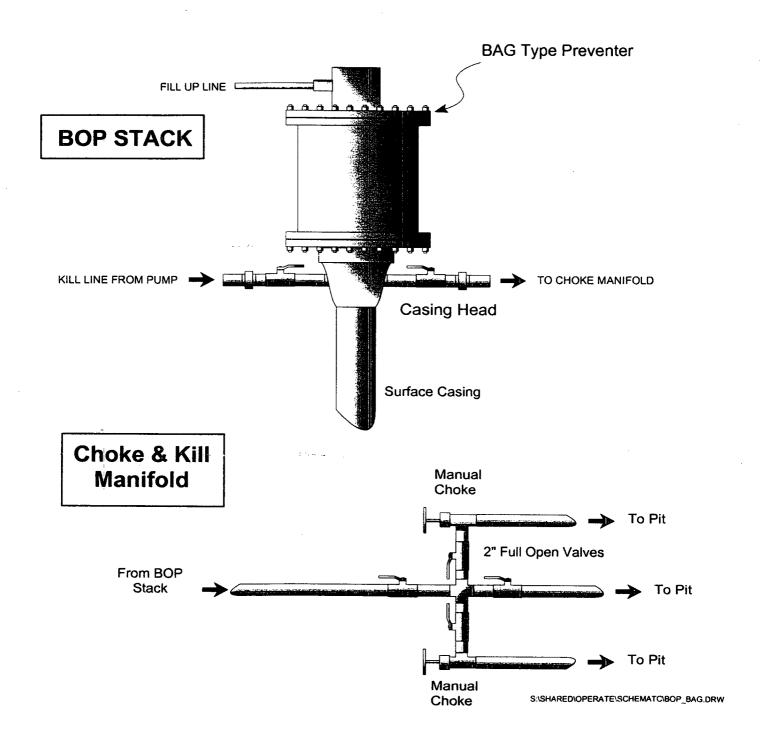
Well Control Equipment Schematic for 1M Service

Attachment to APD Form 3160-3

Blues Com No. 1

Location: 680' fsl & 1680' fwl (se sw)

Sec 21, T26N, R11W San Juan County, New Mexico Date: January 7, 2004 Drawn By: Connie S. Dinning

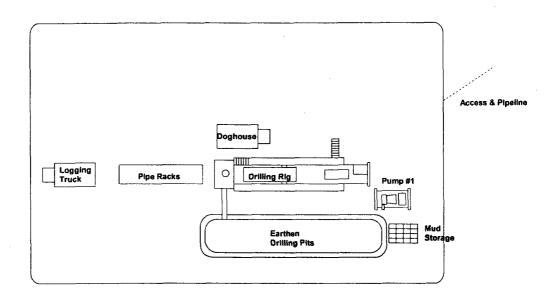


Merrion Oil & Gas Corporation Location Layout

Blues Com No. 1

Location: 680' fsl & 1680' fwl (se sw)
Sec 21, T26N, R11W
San Juan County, New Mexico





Merrion Oil & Gas Corporation Wellbore Schematic

Blues No. 1

Wellbore Configuration

