UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

	R PERMI	T TO DRILL OR I	DEEP	EN	5. Lease Designation and Serial No. NM-106647
a Type of Work DRILL b. Type of Well Oil Well Gas Well Other	DEEF	PEN Single Well	Multiple 2	Zone \	6. If Indian, Allottee or Tribe Name 7. If Unit or CA, Agreement Designation
2. Name of Operator	. Cornoratio		Muniple 2	zone	8. Well Name and No. Chunky Monkey No. 1
Merrion Oil & Gas		\$10.10.50			9. API Well No.
610 Reilly Ave Farm ph: (505) 327-9801	nington NM 8	/401			30-039-29
Location of Well (Footages) At Surface 875' fsl & 1855'	fel (sw se)	SEP 2004			10. Field and Pool, or Exploratory Area Gavilan PC/Basin Fruitland
At proposed prod. zone Same		le officer	J		11. Sec., T., R., M., or BLK. And Survey or Area Section 2, T24N, R2W
14. Distance in Miles and Directions from Nearest To Approximately 4 miles n		ndrith, NM	1		12. County or Parish Rio Arriba NM
15. Distance from Proposed (Also to nearest drig. un Location to Nearest				17.No. of Acres Assis	
Property or Lease Line, Ft 785'		320 acres		320	acres Let = PC
8. Distance from Proposed Location To Nearest Well Drilling, Completed,	· · · · · · · · ·	osed Depth		20 Rotary or Cable 7	E 5
Or Applied for, on this Lease, FT 1031' (P	'&A)	~3500'		Rota	<u></u>
21. Elevations (Show whether DF, RT, GR, etc) 7254' Gf	R, 7259' RKB			22. Approximate Da	ste Work will Start 7.
	PROPOSED	CASING AND CEMENTING	PROGRA		
	ADE OF CASING	WEIGHT PER FOOT	SETTI	NG DEPTH	QUANTITY OF CEMENT
12 ¼" 9 %" J55 8 ¾" 7" J55		32.3 ppf 23 ppf	~240' K ~3240'		~150 cuft (100% excess) ~779 cuft (60% excess)
6 ¼" 4 ½" J55 L	iner	11.6 ppf	~3500'		~85 cuft (60% excess)
Illowed by ~652 cuft Premium Lite and tail in Top of Cement should circulate to ement bond log will be run to determine top of	casing from ~3240' with ~127 cuft (60% surface (will adjust volf cement. A cement 2 hours. Will rig up a	KB to surface and cement in one st excess) Type III cement to fill from rolumes based upon caliper log if aving chronology will be recorded and ir equipment and air drill out with 6 surveys. Will run a 4 ½" 11.6 ppf J6	vailable). If submitted 1/4" bit to tot 55 production	to surface. cement does not to the BLM after all depth ~ 3500' ion liner from ~313	reach surface, a temperature log or completion of the job. KB through Pictured Cliffs interval. Will 30' KB to TD @ 3500' KB. Will cement
The production liner will be central	perforated casing. \	tured Cliffs and Basin Fruitland inte Will fracture stimulate and put on for ng in place, minimum working press	production	n test. Drilling ope sig. Additional di	erations below surface casing will be rilling technical details attached.
The production liner will be central Will test PC and Fruitland through conducted with a double ram BOP with a rotat Gas sales tie-in will be on lease. N IN ABOVE SPACE DESCRIBE PROPOSED PROGR	perforated casing. \ ing head for air drilli lo off-lease ROW is AM: If proposal to deepe	Will fracture stimulate and put on for ng in place, minimum working press required for this project. Existing a	r productior sure 1000 p ccess road	sig. Additional di	erations below surface casing will be rilling technical details attached. and pipeline is on adjacent location. COPIES: BLM+4, WELL FILE+1
The production liner will be central Will test PC and Fruitland through conducted with a double ram BOP with a rotat Gas sales tie-in will be on lease. N	perforated casing. \ ing head for air drilli lo off-lease ROW is AM: If proposal to deepe	Will fracture stimulate and put on for ng in place, minimum working press required for this project. Existing a	r production sure 1000 p ccess road new productiv	is from the south	illing technical details attached. and pipeline is on adjacent location.
The production liner will be central Will test PC and Fruitland through onducted with a double ram BOP with a rotat Gas sales tie-in will be on lease. N IN ABOVE SPACE DESCRIBE PROPOSED PROGR 24. I hereby certify that the foregoing is true and c	perforated casing. \ ing head for air drilli lo off-lease ROW is AM: If proposal to deepe	Will fracture stimulate and put on for ng in place, minimum working press required for this project. Existing a	r production sure 1000 p ccess road new productiv	is from the south	and pipeline is on adjacent location. COPIES: BLM+4, WELL FILE+1

TAMENDED REPORT

State of New Mexico Energy. Minerals & Mining Resources Department OL CONSERVATION DIVISION 2040 South Pacheco Sente En NM 87505

2040 South Pacheco Santa Fe. NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT APA Number Basin Fruitland 71629 Property Name Well Number CHUNKY MONKEY **Bevation** OGRID No. Operator Name 014634 7254 MERRION OIL & GAS Surface Location UL or Lot \$ec Řg9. Lot lon Feet From> North/South Feet from> East/West County Ĭπp. **NWNE** 2 W. RIO ARRIBA 2 24 N. SOUTH 1855 ٥ 875 **EAST** Bottom Hole Location If Different From Surface UL or Lot Feet from North/South Feet from Sec Tup. Rqs. East/West County Dedication Joint ? Consolidation Order Na. -329 Ac 324.88 FC NO ALLOWABLE WILL ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION 160. PC West * 5284*** OPERATOR CERTIFICATION 4 I hereby certify that the information contained herein is true and complete 2 3 42.34 to the best of my knowledge and 42.45 * 42.38 42.42 * betef. Signature Printed Name Connie Dinning Title Z **Production Engineer** NM-106647 0 Date <u>Q</u> June 25, 2004 BLM/GLO ≨ ** calculated SURVEYOR CERTIFICATION Later. 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 Fee Surface same is true and correct to the best of my belief. WGS 84 Date of Survey 36 20 05.52° N 6/18/'04 107 00 59.39 W Signature and Seal of Professional Surveyor 量物 0 1855 2638 6844 875 ERED LANG

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

MENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT 77360 Gavilan Pictured Cliffs Property Name Well Number CHUNKY MONKEY **Beyation** Operator Name 014634 7254 MERRION OIL & GAS Surface Location U or Lot Sec Tup. Rgs. Lot do Feet From> North/South Feet from> East/West County **NWNE** RIO ARRIBA 24 N. 2 W. 2 875 SOUTH 1855 **EAST** 0 Bottom Hole Location If Different From Surface UL or Lot Rge. Feet from> North/South | Feet from> East/West County Sec. Ĭπp. Dedication Order Na. Joint ? Consolidation 160 Ac NO ALLOWABLE WILL ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION West * 5284*** OPERATOR CERTIFICATION 4 I hereby certify that the information contained herein is true and complete 2 3 42.34 to the best of my knowledge and 2718 42.46 * 42.38 42.42 * betef. Signature Printed Name Connie Dinning 25 Title Z **Production Engineer** NM-106647 * 0 Date 2 June 25, 2004 ≨ BLM/GLO SURVEYOR CERTIFICATION ** calculated 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 Fee Surface 0 same is true and correct to the best 8 of my belief. WGS 84 Date of Survey 36 20 05.52° N 6/18/04 107'00'59.39" W Signature and Seal of Professional Surveyor 0 1855 2638 6844 875 CRED LAND

5284" *

N 89 57 W .

MERRION OIL & GAS CORPORATION

DRILLING TECHNICAL PROGRAM

(Attachment to Form 3160-3)

Chunky Monkey No. 1

875' fsl & 1855' fel (sw se) Section 2, T24N, R2W, NMPM Rio Arriba County, New Mexico

1. ESTIMATED FORMATION TOPS:

Formation	<u>Depth-MD</u>
Undiff. Tertiary	Surface
Nacimiento	1605'
Ojo Alamo	2992'
Kirtland	3210'
Fruitland	3260'
Pictured Cliffs	3340'
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) = 910 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.

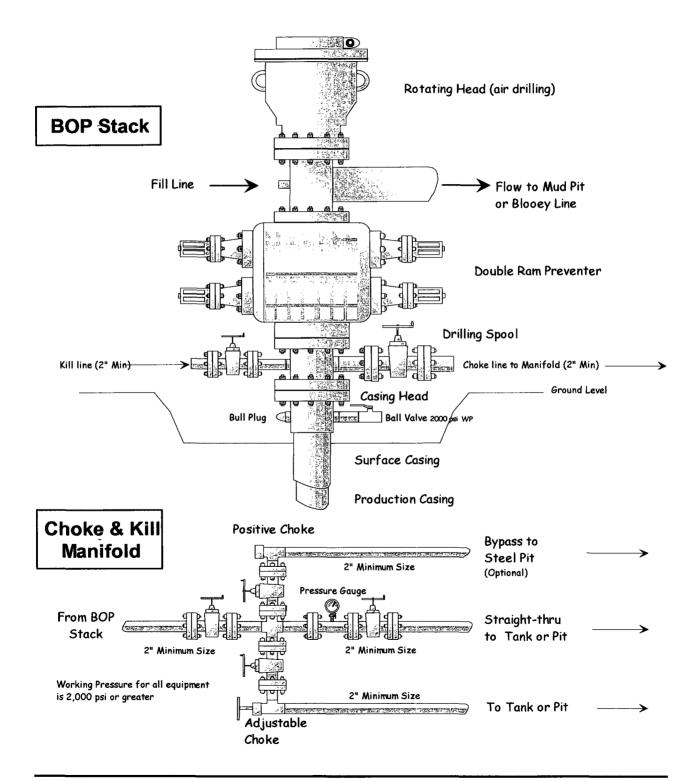
3. DRILLING MUD PROGRAM

- 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 ~ 3240' 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



6/24/2004

Lost circulation materials will be stored on location.

Mud weighting materials will be stored on location.

<u>INTERVAL</u> <u>MUI</u>	O SYSTEM	WEIGHT #/GAL	VISCOSITY SEC/QT	WATER LOSS CC
0 – 240'	Native	< 9.0	35-55	NA
240' - 3240'±LSND	8.6-9.2	28-45	NA	
3240' - 3600'±	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 5/8" 32.3 ppf J55	Surface	240 ft ±	
	2	7" 23 ppf J55	Surface	32400 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

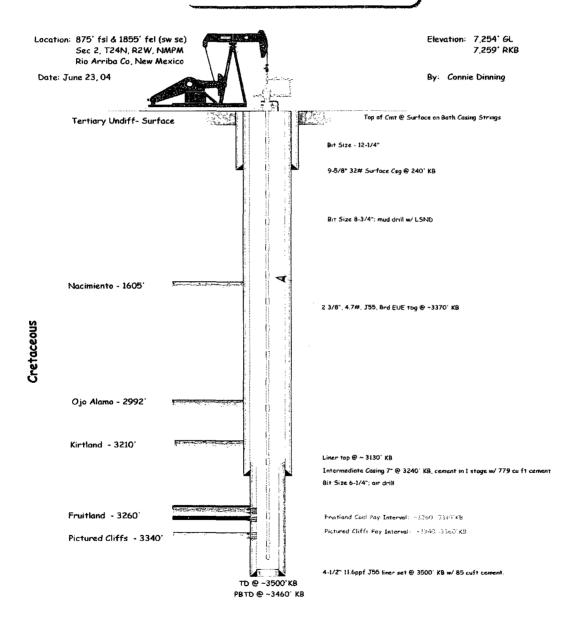
6/25/2004

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 Chunky Monkey No. 1 Proposed Wellbore Configuration



6/25/2004