Form 3160-3 (August 1999)

RECEIVED

JUL 15 2010

FORM APPROVED OMB No. 1004-0136 Expires November 30, 2000

DEPARTMENT OF TH	IE INTERIO	OR	ngton Field Office	5. Lease Serial No.		
BUREAU OF LAND MA	NMNM 03605					
APPLICATION FOR PERMIT TO	DRILL O	R REËNTËR	f Land Manageme	6. If Indian, Allottee or	Tribe Name	
la. Type of Work: X DRILL RE	7. If Unit or CA Agreement, Name and No					
	[Xt	Single Zone	Multiple Zone	8. Lease Name and Well		
b. Type of Well. Oil Well Gas Well Other	Marron #100					
2. Name of Operator M&G Drilling Co		Io. (include area co		9. API Well No. 30-045	-35181	
3A. Address c/o Walsh Engineering,7415 E. Main, Farmington, NM 87402	10. Field and Pool, or Exploratory Basin Fruitland Coal					
4. Location of Well (Report location clearly and in accordance with At surface 660' FNL and 1765' FWL	h any State req	uirements.*)		11 Sec., T., R., M, or BI	k, and Survey or Area	
At proposed prod. Zone				C Sec. 22, T27N, R8W		
14. Distance in miles and direction from nearest town or post office				12. County or Parish	13 State	
13 miles southeast o	f Blanco, N	MM		San Juan	NM	
15 Distance from proposed* location to nearest property or lease line, ft. 660'		Acres in lease	17. Spacing Unit de			
(Also to nearest drig. unit line, if any)		320 +		W/2 320 acres		
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 275'	19. Propose 22	ed Depth 2 65' +/-	20. BLM/BIA Bond	nd No. on file		
is action is subject to technique and GR		imate date work w		23. Estimated duration 2 weeks		
rocedural review pursuant to 43 CFR 3165.3 nd appeal pursuant to 43 CFR 3165.4	24. Attachments			DAILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED		
The following, completed in accordance with the requirements of O	nshore Oil and	Gas Order No. 1,	shall be attached to the	IS form: *GENERAL REQUIR RCVD AUG	EMENIS".	
1. Well plat certified by a registered surveyor.		4. Bond to co	over the operations ur	nless covered by an existing		
2. A Drilling Plan.		Item 20 ab	ove).	OIL CONS. DIV.		
3. A Surface Use Plan (if the location is on National Forest System	Lands, the	5. Operator certification. DIST. 3				
SUPO shall be filed with the appropriate Forest Service Office.		6. Such other authorized	•	on and/or plans as may be re	equired by the	
25. Signature	Na	me (Printed/Typed))	Date	9	
Taul C. Thomps	į	Paul	C. Thompson,	P.E.	6/30/2010	
Title	<u> </u>	Agent				
Approved by (Signature) Man lee wo	Nai	me (Printed/Typed,)	Date	7/13/2010	
Title AFM	offi	ice	$\overline{}$			
Application approval does not warrant or certify that the applicant hoperations thereon.	iolds legal or e	quitable title to the	ose rights in the subjec	t lease which would entitle t	he applicant to conduct	
Conditions of approval, if any, are attached.						
Title 18 U.S.C. Section 1001and Title 43 U.S.C. Section 1212, mak States any false, fictitious or fraudulent statements or representation	e it a crime for is as to any ma	any person knowi tter within its juriso	ngly and willfully to dicuton.	nake to any department or ag	gency of the United	
*(Instructions on reverse)	TOM	IFY BE	SING &	SENIENT		

PRIOR TO EASING & CEMENT

AUG 2 7 2010

UNITED STATES

BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS

District I 1625 N French Dr., Hobbs, NM 88240

District II[.] 1301 W. Grand Avenue, Artesia, NM 88210

District III 1000 Rio Brazos Rd., Aztec, NM 87410

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Revised October 12, 2005
Energy, Minerals & Natural Resources Department Revised October 12, 2005

Revised October 12, 2005
Instructions on back
Submit to Appropriate District Office
State Lease – 4 Copies

OIL CONSERVATION DIVISION 15 2010 1220 South St. Francis Dr.

Santa Fe, NM 87505 armington Field Office

Bureau of Land Management

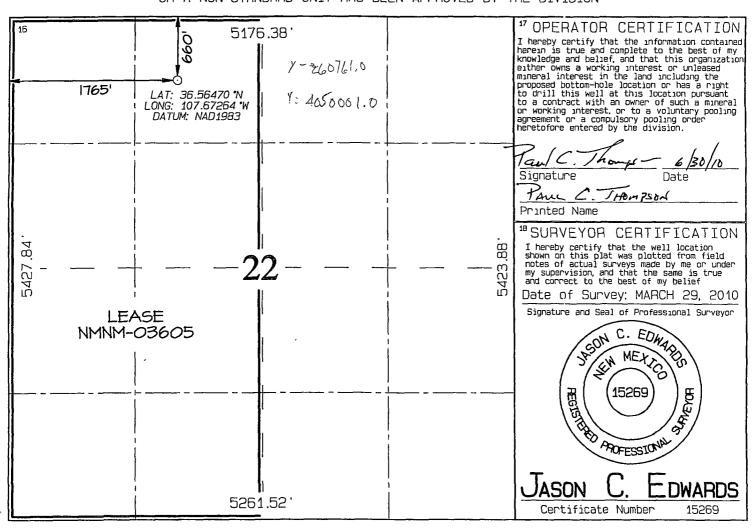
AMENDED REPORT

Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number Pool Coo			е	³Pool Name						
36.045·35181 71629						BASIN FRUITLAND COAL				
Property Code				Property Name				⁵Well Number		
Molacot	\supset \mid		MARRON						100	
'OGRID N	lo.	*Operator Name						*Elevation		
14185	2	M&G DRILLING COMPANY, INC.					5959 '			
¹⁰ Surface Location										
UL or lot no.	Section	Township	p Range Lot Idn Feet from the North/South line Feet from the East/West line County						County	
C	22	27N	8W 660 NORTH 1765 WE				ST	SAN JUAN		
¹¹ Bottom Hole Location If Different From Surface										
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	st line	County
, 555155555					¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.			
320.0 Acres - (W/2)					1					

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



M&G DRILLING Company OPERATIONS PLAN Marron #100

I. Location: 660'FNL & 1765' FWL Date: June 29, 2010

Sec 22, T27N, R8W San Juan County, NM

Field: Basin Fruitland Coal Elev: GL 5959'

Surface: BLM

Minerals: NMNM 03605

API: 30-045-

II. Geology: Surface formation San Jose

Α.	Formation Tops	Depths
	Ojo Alamo	1190′
	Kirtland	1235 ′
	Fruitland	1890 ′
	Fruitland Coal	1905 ′
	Pictured Cliffs	2115'
,	Total Depth	2265 ′

Estimated depths of anticipated water, oil, gas, and other mineral bearing formations which are expected to be encountered:

Water and gas - 1905' and 2115'.

- B. Logging Program: Induction/GR and density logs at TD.
- C. No over pressured zones are expected in this well. No $\rm H_2S$ zones will be penetrated in this well. Max. BHP = 915 psig.

III. Drilling

- A. Contractor:
- B. Mud Program:

The surface hole will be drilled with a fresh water mud.

The production hole will be drilled with a fresh water polymer mud. The weighting material will be drill solids or if conditions dictate, barite. The maximum mud weight expected is 8.7 ppg.

C. Minimum Blowout Control Specifications:

Double ram type or annular type 2000 psi working pressure BOP with a rotating head. See the attached exhibits (#1 and #2) for details on the BOP equipment. All ram type preventers and related equipment will be hydraulically tested at nipple-up and after any use under pressure to 1000 psi.

The blind rams will be hydraulically activated and checked for operational readiness each time pipe is pulled out of the hole. All checks of the BOP stack and equipment will be noted on the daily drilling report. The BOP equipment will include a kelly cock, floor safety valve, and choke manifold all rated to 2000 psi.

IV. Materials

A. Casing Program:

Hole Size	Depth	Casing Size	Wt. & Grade
8-3/4"	120 ′	7"	20# J-55
6-1/4"	2265 ′	4-1/2"	10.5# J-55

B. Float Equipment:

- a) Surface Casing: Bell the bottom pin and 3 centralizers on the bottom 3 joints.
- b) Production Casing: 4-1/2" cement guide shoe and self fill insert float. Place float one joint above shoe. Five centralizers spaced every other joint above float and five turbolizers every third collar from 1400'.

. V. Cementing:

Surface casing: 7" - Use 35 sx (41 cu. ft.) of Type 5 with 2% $CaCl_2$ and $\frac{1}{4}$ #/sk celloflake (Yield = 1.18 cu. ft./sk; slurry weight = 15.6 PPG). 100% excess to circulate cement to surface. WOC 12 hours. Pressure test surface casing to 1000 psi for 30 min.

Production Casing: 4-1/2" - Before cementing circulate hole with at least 1-1/2 hole volumes of mud. Precede cement with 10 bbls of gel water, followed by 10 bbls of fresh water. Lead with 185 sx (381 cu.ft) of Type 5 with 2% sodium metasilicate, 5 #/sk gilsonite, and #/sk. celloflake. (Yield = 2.06 cu.ft./sk; slurry weight = 12.5 PPG). Tail with 75 sx (89 cu.ft.) of Type 5 with 5 #/sk gilsonite, and #/sk. celloflake. (Yield = 1.23 cu. ft./sk; slurry weight = 15.6 PPG). Total cement volume is 470 cu.ft. (100% excess to circulate cement to surface).

Paul C. Thompson, P.E.

Paul C. Thomps -

"2M" BLOWOUT PREVENTER SYSTEM

