(August 1999)

1a. Type of Work

1b. Type of Well:

3a. Address

2. Name of Operator

M&G Drilling Company Inc.

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED

OMB No. 1004-0136

Expires November 30, 2000	
signation and Serial No.	

13. State

New Mexico

APPLICATION FOR PERMIT TO DRILL OR REENTER (

REENTER

Single Zone

3b. Phone Number

 \Diamond

5. Lease De 5F078487A NMNM-05791 6. If Indian, Allottee or Tribe Name RECEIVE 070 FARMINGT 7. If Unit or CA, Agreement, Name and No. Multiple Zone 8. Lease Name and Well No. **GRAHAM 10 #9** 9. API Well No. 10. Field and Pool, or Exploratory **BLANCO MESAVERDE** (505) /327-45757AD 2005 11. Sec., T., R., M., or Blk. and Survey or Area Sec 10, T-27-N, R-8-W

4. Location of Well (Footage, Sec, T. R., M, or Survey Description) Unit P, 1010' FSL, 700' FEL At surface: Same At proposed prod. Zone: 14. Distance in miles and direction from nearest town or post office* ~14 Miles South of Blanco, NM 15. Distance from proposed 700' location to nearest propety or lease line, ft.

DRILL

c/o Mike Pippin LLC

3104 N. Sullivan, Farmington, NM 87401

Oil Well Gas Well

17. Spacing Unit dedicated to this well

7680 320 Acres E/2

(Also to nearest drig. Unit line, if any) Distance from proposed*

854 location to nearest well

19. Proposed Depth 4800'

20. BLM/BIA Bond No. on file

21. Elevation (Show whether DF, KDB, RT, GL, etc.) 5975'

22. Approximate date work will start* June 10, 2005

30 days

23. Estimated duration

24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- 1. Well plat certified by a registered surveyor.
- 2. A Drilling Plan
- 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office.
- 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).

12. County or Parish,

San Juan

- 5. Operator certification.
- 6. Such other site specific information and/or plans as may be required by the authorized officer

Size of Hole	Grade, Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
12-1/4"	9-5/8" H-40	32.3#	200'	106 Sxs, 125 ft3 - 100% Excess
8-3/4"	7" K-55	20#	1800'	214 Sxs, 393 ft3 - 45% Excess
6-1/4"	4-1/2" K-55	11.6#	4800'	327 Sxs, 657 ft3 - 45% Excess

The on-site inspection was on10/12/04 by Brice Barlan

Archy is by DCA.

EA is by Nelson

SEE ATTACHED APD INFORMATION

Latitude: 36 Deg. 35 Min, 2.7 Sec N Langitude: 107 Deg. 39 Min. 46 1 Sec W

	Longitude.	107 Deg, 33 Will, 40.1 Occ 11			
25. Signature	Name(Printed/Typed)	Date			
Mila tracin	Mike Pippin	December 4, 2004			
Title Petroleum Engineer					
Approved by (Circothum)	None/Distant/Transfil	I note			
Approved by (Signature)	Name(Printed/Typed)	Date			
tim bolato		3/11/02			
Felia Field Manager - Munerals	Office				
Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to					
conduct operations thereon.					
Conditions of approval, if any, are attached.					
Title 19 LIS C Section 1001 and Title 42 LIS C Section 1012 make it a sing for	and the sufficient and sufficients make to any department	most or account of the			

*(Instructions on revers

United States any false, ficticious, or fraudulent statements or representations as to any matter within its jurisdiction.

State of New Mexico
Energy, Minerals & Natural Resources Department Form C-102 DISTRICT I 1625 N. French Dr., Hobbs, N.M. 88240 Revised August 15, 2000 Submit to Appropriate District Office DISTRICT II 811 South First, Artesia, N.M. 68210 MAR 2005 OIL CONSERVATION DIVISION 4005 State Lease - 4 Copies Fee Lease - 3 Copies NSERVATION DATA 2040 South Pacheco Company 875050 DISTRICT III 1000 Rio Brazos Rd., Aztec, N.M. 87410 DAST. 9 ☐ AMENDED REPORT 2040 South Pacheco, Santa Fe, NM 87505 WELL LOCATION AND ACREAGE DEDICATION PLAT Pool Name *Pool Code 723/9 MESAUERDE Well Number ⁵Property Name 9 GRAHAM 10 Operator Name Elevation 5975 M & G DRILLING COMPANY ¹⁰ Surface Location North/South line UL or lot no. Feet from the Feet from the East/West line Section Township Range Lot Idn County SAN JUAN 1010 Ρ 10 27-N 8-W SOUTH 700 **EAST** ¹¹ Bottom Hole Location If Different From Surface Lot Idn North/South line Feet from the UL or lot no. Section Township Feet from the East/West line County Range Dedicated Acres ¹⁴ Consolidation Code ¹⁵ Order No. ¹⁸ Joint or Infill 320 E/2 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 FD. 3 1/4" BC. OPERATOR CERTIFICATION 1955 B.L.M. I hereby certify that the information contained herein 3 02-03-04 SURVEYOR CERTIFICATION LAT. = $36^{\circ}35'02.7"$ N. (NAD 83) by certify that the well location sh LONG. = 107°39'46.1" W. (NAD 83) plotted from field notes of actual surveys made 700' 1010 3 1/4" BC. 1955 B.L.M. FD. 3 1/4" BC. 1955 B.L.M. FD. N 89-36-27 W Certificate No 5194.1' (M)

Submit 3 Copies To Appropri	ate District	State of	New Me	xico		Form C-103
Office District I		Energy, Minerals	and Natur	al Resources	WELL API NO.	March 4, 2004
1625 N. French Dr., Hobbs, M. District II	IM 88240				WELL API NO.	
1301 W. Grand Ave., Artesia	, NM 88210	OIL CONSER			5. Indicate Type	
District III 1000 Rio Brazos Rd., Aztec,	NM 87410	1220 Sout			STATE	FEE .
<u>District IV</u> 1220 S. St. Francis Dr., Santa	Fe NM	Santa r	e, NM 87	303	6. State Oil & Ga Federal: SF-0784	•
87505						
(DO NOT USE THIS FORM	FOR PROPOSA	CES AND REPORTS C ALS TO DRILL OR TO DEE ATION FOR PERMIT" (FOR	PEN OR PLU	G BACK TO A	7. Lease Name of GRAHAM 10	r Unit Agreement Name
PROPOSALS.) 1. Type of Well:	53	0.4			8. Well Number #9	
Oil Well C 2. Name of Operator	ias Well 🔀	Other			9. OGRID Numb	per 141852
M & G DRILLING CO	OMPANY				J. Odiab Name	
3. Address of Operato	r c/o Agent,	Mike Pippin LLC			10. Pool name or	
	nington, NM	87401 505-327-4573	3		Blanco Mesaverd	e
4. Well Location						
Unit Letter_	P: 1010	feet from the South	line and	700 feet from the	ne <u>East</u> line	
Section	10	Township 27N	Range 8V	V NMPM S	an Juan County	a. a series and a
Section 1		11. Elevation (Show) 5975' GL				
Pit or Below-grade Tank Ar	plication (For	\	ures, a form (C-144 must be attached		
Pit Location: UL P Sect_	10 Twp 27N F	ang <u>8W</u> Pit type: Drillin	ngDepth to	Groundwater >100'.	Distance from nearest f	resh water well >1000'.
Distance from nearest surfa	ce water_ <u><200'</u>	_ Below-grade Tank Locat	ion UL	_SectTwp		
feet from the	line and	feet from the	line			
NOTI	CE OF IN	ppropriate Box to I TENTION TO: PLUG AND ABANDO CHANGE PLANS		SUB REMEDIAL WOR	SEQUENT RE	PORT OF: ALTERING CASING
PULL OR ALTER CAS	SING	MULTIPLE COMPLETION		CASING TEST A CEMENT JOB	ND 🗆	ADAINDONIMENT
OTHER: Drill	ing Pit Regist	ration	⋈	OTHER:		
13. Describe propo	sed or compl	eted operations. (Clear		ertinent details, an	d give pertinent dat	tes, including estimated date
of starting any or recompletion	proposed wo	rk). SEE RULE 1103.	For Multip	ole Completions: A	ttach wellbore diag	ram of proposed completion
We intend to drill a new Aztec, NM.	v MV well. T	he drilling pit will be b	ouilt and lin	ed according to our	general pit guidelir	nes on file at the NMOCD in
When this drilling pit i	s closed, it wi	ll be closed as per our	general pit	closing guidelines o	on file at the NMOC	CD.
I hereby certify that the	information	above is true and comp	lete to the t	est of my knowled	ge and belief. I furt	her certify that any pit or below-
grade tank has been/will be	constructed of c	osed according to NMOCI) guidelines 💭	Ka general permit 🗌 e	r an (attached) alterna	tive OCD-approved plan 🗌.
SIGNATURE	like hy	gein T	ITLE Age	nt – Petroleum En	gineer DATE [December 6, 2004
Type or print name	Mike Pippi	n E-mail addres	ıs: mpippii	n@ddbroadband.ne	t Telephone No. :	505-327-4573
(This space for State us	e)	_				0.4.
APPPROVED BY	e A	The state of the s	TITLE RE			DATER 1 4 200F
Conditions of approval	if anyi		_IIILE E	" WIL & CAS IN	SPECTOR, DIST. (3)*	
•	<i>V</i> -				- 1 . 表版	

M & G DRILLING COMPANY 1010 FSL GRAHAM 10 No. 9, 700 FEL SECTION 10, T27N, R8W, N.M.P.M., SAN JUAN COUNTY, N. M. DATE: SEPTEMBER 09, 2004 **GROUND ELEVATION: 5975,** CONSTRUCTION ZONE F 7.6 F 5.4 <u>8</u>| 8 PIT 15' x 65' 4 125' ① F 5.4 Wellhead to Back C 1.4 C 0.0 ** PLUGGED WH 100' LAYDOWN N 46° W REAR Wellhead to Front 8 **EXISTING WELL LOCATION** C/L EXISTING ROAD -1C 2.9 3 C 2.9 METER HOUSE C 1.5 2 200' X 225' $(300' \times 325') = 2.24 \text{ ACRES}$ NOTE: DAGGETT ENTERPRISES, INC. IS NOT LIABLE FOR UNDERCROUND UTILITIES OR PIPELINES. NEW MEXICO ONE CALL TO BE NOTIFIED 48 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION. ELEV. A-A' C/L 5910 5980 5970 5960 C/L ELEV. B-B' 5910 5980 5970 5960 7. 0. Box 15068 • Farmingte Phone (505) 326-1772 • Fax (1 NEW MEXICO L.S. No. ELEV. C-C' 5910 5980 5970 5960 NOTE: CONTRACTOR SHOULD CALL ONE—CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

M & G DRILLING COMPANY GRAHAM 10 #9 MV

1010' FSL, 700' FEL Unit P Sec. 10 T27N R8W San Juan County, NM

Drilling Program

1. <u>ESTIMATED FORMATION TOPS (KB)</u>

Formation Name	<u>Depth</u>
Ojo Alamo	1299'
Kirtland	1448'
Fruitland	2016'
Pictured Cliffs	2200'
Chacra	3144'
Cliffhouse	3873'
Menefee	3897'
Point Lookout	4453'
TD (4-1/2")	4800'

2. NOTABLE ZONES

Gas or Oil Zones	Water Zones	Coal Zone
Fruitland	Ojo Alamo	Fruitland
Pictured Cliffs	Kirtland	
Chacra		
Cliffhouse		
Menefee		
Point Lookout		

Water zones will be protected with casing, cement, and weighted mud. Fresh water found while drilling will be recorded. Oil or gas shows will be tested for commercial potential based on the engineer's recommendations.

3. PRESSURE CONTROL

Maximum expected pressure is ~800 psi. The drilling contract has not yet been awarded, thus the exact BOP model to be used is not yet known. A typical 11" 3,000 psi model BOP and choke manifold is on PAGE #5 & #6.

BOP equipment and all accessories will meet or exceed BLM requirements in 43 CFR Part 3160 for a 3000 psi system. A 3000 psi double ram hydraulic BOP will be used.

M & G DRILLING COMPANY GRAHAM 10 #9 MV

1010' FSL, 700' FEL Unit P Sec. 10 T27N R8W San Juan County, NM

Accumulator system capacity will be sufficient to close all BOPE with a 50% safety factor. Fill, kill, and choke manifold lines will be 2". Accessories will include upper and lower Kelly cocks with handles, stabbing valve to fit drill pipe on floor at all times, string float at bit, 3000 psi choke manifold with 2" adjustable and 2" positive chokes, and pressure gauge. BOPs will be tested every 24 hours. Tests will be recorded on IADC log.

4. CASING & CEMENT

Hole Size	O.D. Weigh	ght (lb/ft)	<u>Grade</u>	<u>Age</u>	Connection	GL Setting Depth
12-1/4"	9-5/8"	32.3#	H-40	New	ST&C	200'
8-3/4"	7"	20#	K-55	New	ST&C	1800'
6-1/4"	4-1/2"	11.6#	K-55	New	ST&C	4800'

Surface Casing will be cemented to the surface with \sim 125 cu. ft. (\sim 106 sx) Class "B" cmt or equivalent (1.18 ft3/sx yield, 15.6 ppg, & 5.2 gps) with 2% CaCl2 and ¼#/sx celloflake. Volume based on 100% excess. We plan to run a minimum of at least 3 centralizers. A wooden wiper plug will be displaced to within 20' of the shoe. WOC = 12 hours. Surface casing will be tested to 500 psi for 15 minutes.

Intermediate casing will be cemented to surface with a single stage. Total cement = 393 cu. ft (214 sx). Volumes are calculated at 45% excess. If cement does not circulate to surface, then a temperature survey will be run to determine the actual cement top as needed. WOC = 12 hours. Test to 1000 psi for 15 minutes.

Lead cement will be ~282 cu. ft. (~134 sx) Premium Lite w/2% CaCl2, ¼#/sx cello flake, 6-1/4#/sx gilsonite, 8% gel mixed at 11.0 gps, 12.1 ppg for a yield of 2.11 cu. ft. per sx.

Tail cement will be ~111 cu. ft. (~80 sx) Type III w/2% CaCl2, ½#/sx Cello flake mixed at 6.7 gps, 14.6 ppg for a yield of 1.39 cu. ft. per sx.

Cementing equipment will include a guide shoe, and autofill float collar will be run 20' off bottom. We plan on running at least 10 centralizers.

Production Casing will be cemented to surface with a single stage. Total cement = ~657 cu. ft.(~327sx). Volumes are calculated at 45% excess in the lead cmt. If cement does not circulate to surface, then a temperature survey or CBL will be run to determine the actual cement top as needed. WOC = 12 hours. Casing will be tested to 3800 psi for 15 minutes during completion operations.

Lead cement will be ~601 cu. ft. (~287 sx) Class "B" cmt or equivalent w/2% SM, ½#/sx cello flake, 3#/sx gilsonite mixed at 11.9 gps, 12.5 ppg for a yield of 2.09 cu. ft. per sx.

M & G DRILLING COMPANY GRAHAM 10 #9 MV

1010' FSL, 700' FEL Unit P Sec. 10 T27N R8W San Juan County, NM

Tail cement will be ~56 cu. ft. (~40 sx) Class "B" cmt or equivalent w/1% gel, 2% Cacl2, 1/4#/sx cello flake, 3#/sx gilsonite mixed at 6.8 gps, 14.5 ppg for a yield of 1.4 cu. ft. per sx.

Cementing equipment will include a guide shoe, and autofill float collar will be run 20' off bottom. We plan on running at least 10 centralizers.

5. MUD PROGRAM

Depth	<u>Type</u>	Wt./ppq.	<u>Vis.</u>	Fluid Loss	<u>PH</u>
0'-200'	FW gel/lime spud mud	8.4-8.7	30-50	NC	10
200'-1800'	FW gel/Polymer	8.3-8.6	30-35	<20cc's	9.5
1800'-4800'	FW gel/Polymer	8.3-8.6	30-35	<20cc's	9.5

Lost circulation and absorption material will be on location.

6. CORING, TESTING, & LOGGING

No cores or drill stem tests are planned. Open hole logs will include GR, Neutron-Density, Caliper, Induction, and SP from TD to the intermediate casing shoe.

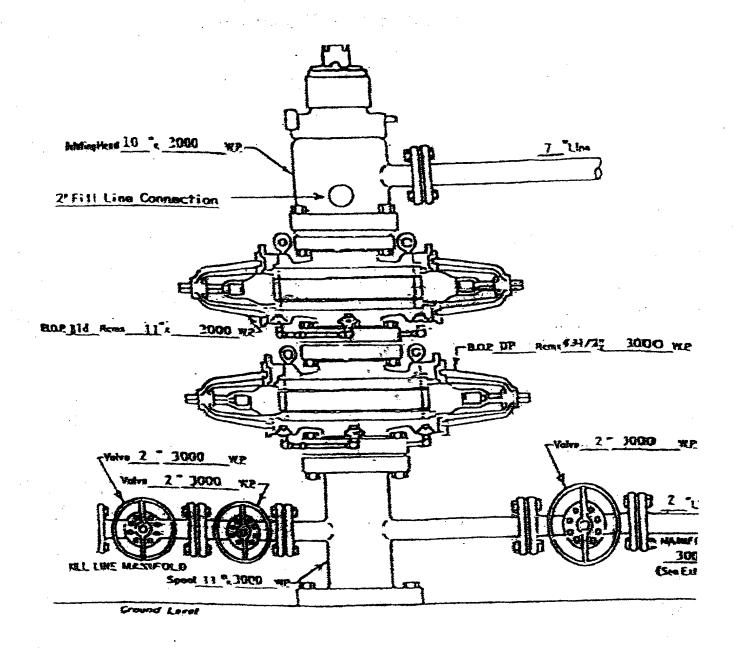
7. DOWN HOLE CONDITIONS

No abnormal pressures, temperatures, nor hydrogen sulfide are expected. Maximum pressure will be ~800 psi.

8. OTHER INFORMATION

The anticipated spud date is June 10 2005. It is expected it will take ~7 days to drill and ~7 days to complete the well. Completion will start about one month after the spud and will include hydraulic fracturing.

M & G DRILLING COMPANY SAN JUAN COUNTY, NEW MEXICO

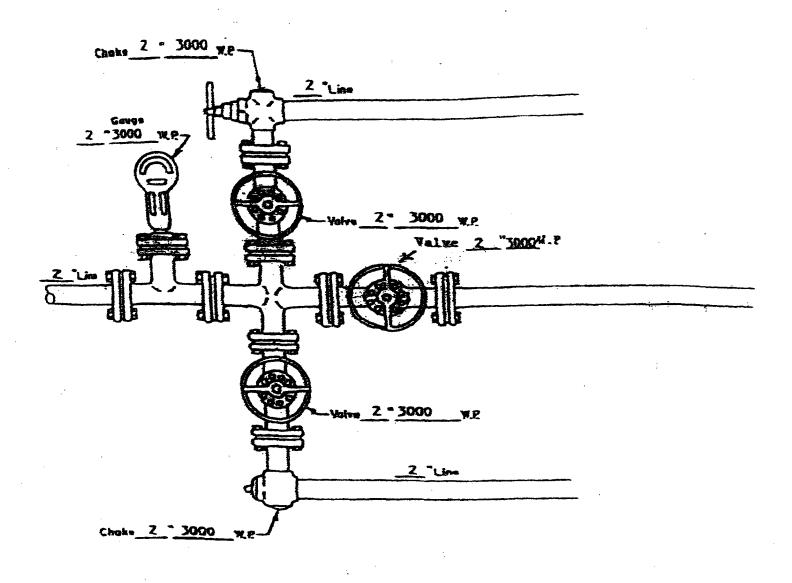


WELL	HEAD	B.O.P	. [] Manual
	3000	#WP	Ū	1 Hydroulic

NOTE: Although 3000 psi 80P equipment will be used, equipment determination and line sizing are based on the requirements for 2000 psi 80P equipment due to the known drilling and reservoir conditions.

PAGE #5

M & G DRILLING COMPANY SAN JUAN COUNTY, NM



MANIFOLD Manual

3000 #W.P. Hydraulic

8-5/8" 23# LS X-42 CASING 0.250" WALL CALLAPSE = 1016 PSI INTERNAL YIELD = 1040 PSI

PAGE #6