UNITED STATES FORM APPROVED DEPARTMENT OF THE INTERIOR OMB No. 1004-0136 Form 3160-3 BUREAU OF LAND MANAGEMENT Expires November 30, 2000 (August 1999) 5. Lease Designation and Serial No. APPLICATION FOR PERMIT TO DRILL OR REENTER SF-078481A 6. If Indian, Allottee or Tribe Name DRILL REENTER 7. If Unit or CA, Agreement, Name and No. 1a. Type of Work 1b. Type of Well: Oil Well Gas Well Other 8. Lease Name and Well No. **GRAHAM #1B** 2. Name of Operator 9. API Well No. 30-045-32645 M&G Drilling Company Inc. NM OGRID # 141852 10. Field and Pool, or Exploratory c/o Mike Pippin LLC 3b. Phone Number **BLANCO MESAVERDE** 11. Sec., T., R., M., or Blk. and Survey or Area 3104 N. Sullivan, Farmington, NM 87401 (505) 327-4573 4. Location of Well (Footage, Sec, T. R., M, or Survey Description) Sec 4, T-27-N, R-8-W Unit H, 2615' FNL, 660' FEL At surface: Same At proposed prod. Zone: 13. State 12. County or Parish. 14. Distance in miles and direction from nearest town or post office* New Mexico San Juan 💆 ~13 Miles South of Bloomfield, NM 17. Spacing Unit dedicated to this well 16. No of Acres in lease 15. Distance from proposed* 660 location to nearest 320 320.79 Acres E/2 propety or lease line, ft. (Also to nearest drig. Unit line, if any) 19. Proposed Depth 20. BLM/BIA Bond No. on file 18. Distance from proposed* 4600' 919' location to nearest well 22. Approximate date work will start* 23. Estimated duration 21. Elevation (Show whether DF, KDB, RT, GL, etc.) 5887' GL June 1, 2005 30 days 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form: 4. Bond to cover the operations unless covered by an existing bond on file (see 1. Well plat certified by a registered surveyor. 2. A Drilling Plan Item 20 above). 3. A Surface Use Plan (if the location is on National Forest System Lands, the Operator certification. SUPO shall be filed with the appropriate Forest Service Office. 6. Such other site specific information and/or plans as may be required by the authorized officer Grade, Size of Casing Setting Depth Quantity of Cement Size of Hole Weight per Foot 106 Sxs, 125 ft3 - 100% Excess 12-1/4" 9-5/8" H-40 32.3# 200' 8-3/4" 7" K-55 20# 1800 214 Sxs, 393 ft3 - 45% Excess 313 Sxs, 627 ft3 - 45% Excess 6-1/4" 4-1/2" K-55 4600 11.6# The on-site inspection was on10/12/04 by Brice Barlan Archy is by DCA. SEE ATTACHED APD INFORMATION Latitude: 36 Deg, 36 Min, 14 Sec N EA is by Nelson

	LOI	igitude: 107 Deg, 40 Min, 46 Sec VV
25. Signature	Name(Printed/Typed)	Date
Meko Teppin	Mike Pippin	October 25, 2004
Title Petroleum Engineer		
Approved by (Signature) Original Signed: Stephen Mason	Name(<i>Printed/Typed</i>)	DEC 2 2 2004
Title	Office	
Application approval does not warrant or certify the applicant holds legal or eq conduct operations thereon.	uitable title to those rights in the subject lease which v	would entitle the applicant to

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowlingly and willfully to make to any department or agency of the United States any false, ficticious, or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on reverse)

DISTRICT I 1625 N. French Pr., Hobbs, N.M. 88240

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised August 15, 2000

DESTRICT II 811 South First, Artesia, N.M. 88210

DISTRICT III 1000 Rio Brazos Rd., Axtec, N.M. 87410

OIL CONSERVATION DIVISION

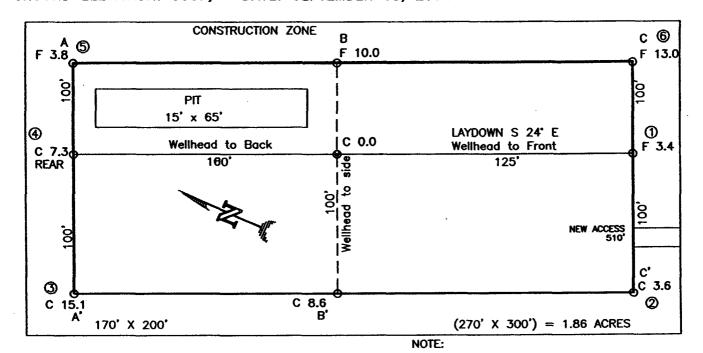
Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

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Submit 3 Copies To Appropriate District Office	State of New M			Form C-103
<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240	Energy, Minerals and Nati	ıral Kesources	WELL API NO.	March 4, 2004
District II 1301 W. Grand Ave., Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV	OIL CONSERVATION 1220 South St. Fra Santa Fe, NM 8	ncis Dr.	6. State Oil & Gas Lease	FEE
1220 S. St. Francis Dr., Santa Fe, NM 87505			Federal: SF-078481A	
(DO NOT USE THIS FORM FOR PROPO	ICES AND REPORTS ON WELLS SALS TO DRILL OR TO DEEPEN OR PLU CATION FOR PERMIT" (FORM C-101) FO	JG BACK TO A	7. Lease Name or Unit A GRAHAM	greement Name
PROPOSALS.) 1. Type of Well: Oil Well Gas Well	₫ Other		8. Well Number #1B	
2. Name of Operator M & G DRILLING COMPANY	<u> </u>		9. OGRID Number 141	852
3. Address of Operator c/o Agent 3104 N. Sullivan, Farmington, N.			10. Pool name or Wildca Blanco Mesaverde	t
4. Well Location		······································		
Unit Letter H: 2615	feet from the <u>North</u> line and	660_feet from the	<u>East</u> line	
Section 4	Township 27N Range 89 11. Elevation (Show whether DF		n Juan County	
Pice Paler and Trail Assistation (Fe	5887' GL pit or below-grade tank closures, a form			
	r put or below-grade tank closures, a lorm Rug 8W Pit type: Drilling. Depth to		stance from nearest fresh water	well >1000'.
	-1000'. Below-grade Tank Location UL			
feet from the line and _	feet from theline			
	CHANGE PLANS		SEQUENT REPORT ALTER LLING OPNS. PLUG ABANE	RING CASING
_	COMPLETION	CEMENT JOB	_	
OTHER: Drilling Pit Regi	••••	OTHER:		
13. Describe proposed or comp of starting any proposed w or recompletion.	pleted operations. (Clearly state all work). SEE RULE 1103. For Multi	pertinent details, and ple Completions: A	I give pertinent dates, inclu tach wellbore diagram of p	iding estimated date roposed completion
We intend to drill a new MV well. Aztec, NM.	The drilling pit will be built and his	ned according to our	general pit guidelines on fil	le at the NMOCD in
When this drilling pit is closed, it	will be closed as per our general pit	closing guidelines of	n file at the NMOCD.	
I hereby certify that the information grade tank has been/will be constructed or	n above is true and complete to the closed according to NMOCD guidelines	best of my knowledg Xa general permit □ o	e and belief. I further certify r an (attached) alternative OCD	that any pit or below- -approved plan □.
SIGNATURE Melso	eppin TITLE AS	ent – Petroleum Eng	ineer DATE October 2	25, 2004
Type or print name Mike Pip	oin E-mail address: mpipp	in@ddbroadband.ne	Telephone No. 505-327	-4573
(This space for State use)	1	•	7) [
APPPROVED BY Conditions of approval, if any:	TITLE	EPUTY OIL & GAS IN	SPECTOR, DIST. (58 DATE	<u>∮EU # ₹ 2005</u>

M & G DRILLING COMPANY
GRAHAM No. 1B, 2615 FNL 660 FEL
SECTION 4, T27N, R8W, N.M.P.M., SAN JUAN COUNTY, N. M.
GROUND ELEVATION: 5887, DATE: SEPTEMBER 08, 2004



DAGGETT ENTERPRISES, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. NEW MEDICO ONE CALL TO BE NOTIFIED 48 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION.

5900

5890

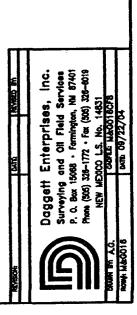
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ELEV. C-C'	C/L .
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NOTE: CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

PAGE #12



M & G DRILLING COMPANY GRAHAM #1B MV

2615' FNL, 660' FEL Unit H Sec. 4 T27N R8W San Juan County, NM

Drilling Program

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

Formation Name	<u>Depth</u>
Ojo Alamo	1204'
Kirtland	1314'
Fruitland	1844'
Pictured Cliffs	2094'
Chacra	3066'
Cliffhouse	3767'
Menefee	3796'
Point Lookout	4324'
TD (4-1/2")	4600'

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 #1B MV

2615' FNL, 660' FEL Unit H Sec. 4 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 9-5/8"	nt (lb/ft) 32.3#			Connection ST&C	GL Setting Depth 200'
8-3/4" 6-1/4"	7" 4-1/2"		K-55	New	ST&C ST&C	1800' 4600'

Surface Casing will be cemented to the surface with ~125 cu. ft. (~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, 1/4#/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 = ~627 cu. ft.(~313sx). 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 ~571 cu. ft. (~273 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 #1B MV

2615' FNL, 660' FEL Unit H Sec. 4 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

<u>Depth</u>	<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'-4600'	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

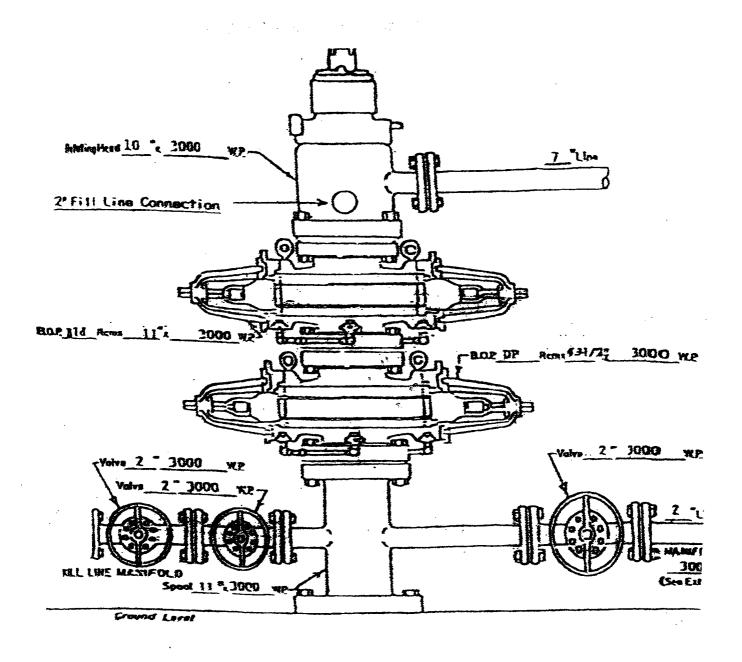
No cores or drill stem tests are planned. Open hole logs will include GR, Neutron-Density, Caliper, Induction, and SP from TD to the intermediate casing shoe.

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 1, 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.

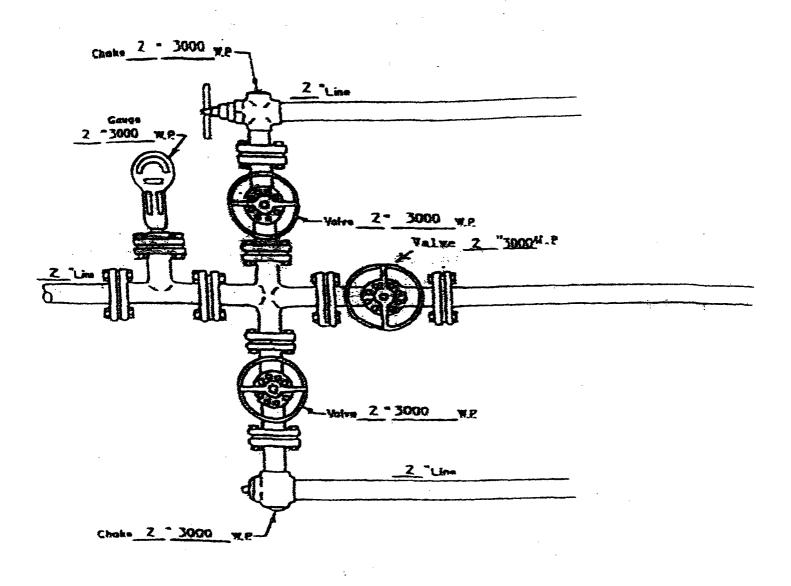


WELL	HEAD	8.0.P		l Manual
	3000	#WP	I .	1 Hydroulic

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



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

Manual Manual

☐ Hydroulic

PAGE #6

ATTACHMENT NO. 2