# **UNITED STATES**

FORM APPROVED

Form 3160-3	DUDEAU OF LAND MANAGEMENT					OMB No. 1004-0136 Expires November 30, 2000		
(August 1999)	BUNEAU OF LA	AND WANAGEN	1111	ŀ	5. Lease Designat		<del></del>	
ÀDDI	LICATION FOR PER	MIT TO DRILL	OD DEENTER	,	SF-07848			
APP	LICATION FOR PER	MILLODRILL	2004	ìrc a rib	6 If Indian. Allotte		10	
			/ (銀円 )		,			
1a. Type of Work	DRILL	REENTER			7. If Unit or CA, Ag	preement, Nam	ne and No.	
1b. Type of Well:	Oil Well Gas Well	Other Sin	gle Zone Mu	Niple Zone MINO	8. Lease Name ar	nd Well No.		
					GRAHAM	#100		
2. Name of Operator					9. API Well No.			
M&G Drilling Co	ompany Inc.	NN	A OGRID # 1418	52	30-049	<u>5-32</u>	730	
<u> </u>					10. Field and Poo			
3a. Address C/O	flike Pippin LLC	3b.	Phone Number	-Valvas	Basin Fru	itland Coa	al	
3104 N. Sulliva	n, Farmington, NM 8	7401 (5	05) 327-4573	2013 14757	711. Sec., T., R., M	., or Blk. and S	Survey or Area	
	otage, Sec, T. R., M, or Survey	<del>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</del>	/	\$11.10	the second			
At surface:	Unit O, 890' FSL, 16		Ô	1 10 mg	Sec 3, T-	27-N, R-8	-W	
At proposed prod. Zone	• •		$\log$	200 J		,		
	and direction from nearest town	or nost office*		<b>€</b>	12. County or Par	ish /	13. State	
~14 Miles South of		o. poe. o	ါ်ဝ	<b>- ⟨</b> ♥/,	San Juan		New Mexico	
15. Distance from prog	·····	······································	16. No of Albes	in leased in	17. Spacing Unit of			
	890'		10. NO OF AGRES	CO O	OF CONTROLLER	redicated to the	is wer	
location to nearest			7680	6,2 m	ഹി. 320.86 A	cros E/2		
propety or lease line, ft.			7000	\$ 52 20 21 B	7 ( 320.00 A)	JES 11/2		
(Also to nearest drig. U				Tare UC DU				
18. Distance from prop			19. Proposed De	epth	20. BLM/BIA E	Bond No. on file	8	
location to nearest well	332'		2250'					
•	hether DF, KDB, RT, GL, etc.)			date work will start*	23. Estimated			
5890'		04.4		0, 2005	30 d	ays		
The fellowing o	ampleted in accordance with th		attachments	es No. 1. aball be attes	had to this form.			
	ompleted in accordance with th tified by a registered surveyor.	e requirements of Orisi		er No. 1, shall be attac Bond to cover the ope		ad hu an avietir	on bond on file (see	
2. A Drilling Pla			٦.	Item 20 above).	iagona unicas covere	.a by an existin	ig bolis of the (see	
<del>-</del>	se Plan (if the location is on Nat	tional Forest System La	inds,the 5.	Operator certification.				
SUPO shall	be filed with the appropriate Fo	rest Service Office.		Such other site specif		plans as may !	be required by the	
				authorized officer			**************************************	
Size of Hole	Grade, Size of Casing		t per Foot	Setting Depth		antity of Ceme		
12-1/4"	8-5/8" LS	23		200'			- 100% Excess	
6-1/4"	4-1/2" K-55		.6#	2250'	173 8	xs, 334 ft3	- 45% Excess	
				<u> </u>				
The on-site inspec	ction was on 11/29/04 by	John Kendell and F	Rrice Rarlan					
Archy is by DCA.			5.100 Da.10					
EA is by Nelson		SEE ATTA	CHED APD INFO	ORMATION	Latitude	: 36 Deg, 3	5 Min, 55 Sec N	
							9 Min, 57.6 Sec W	
25. Signature			Ne	ame(Printed/Typed)		Date		
4	n/ A - Do.							
	nune lypper	<u> </u>	<u> </u>	Mike Pippin		Decer	mber 5, 2004	
Title Petrole	eum Engineer							
Approved by (Signatur	re) // /		Ne	ame(Printed/Typed)		Date		
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A1.	VIII aulles.	Cox ()				1-1	203	
		<del>- ) \                                  </del>						

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.

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

\*(Instructions on reverse)

conduct operations thereon.

NMOCD

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

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

#### State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised August 15, 2000

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

DISTRICT III

1000 Rio Brazos Rd., Aztec, N.M. 87410

# OIL CONSERVATION DIVISION

2040 South Pacheco Santa Fe, NM 87505

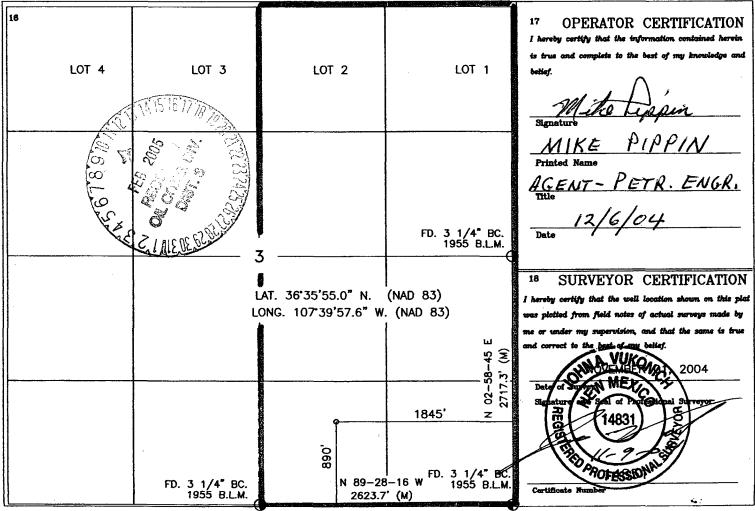
Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

☐ AMENDED REPORT

### 2040 South Pacheco, Santa Fe, NM 87505

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3000	Number 5	2730	7	Pool Code / 62	9		BASIN	Pool Name		D CC	DAL
Property Code SProperty Name GRAHAM								' Wel	Il Number 100		
19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							° I	Elevation 5890'			
					10 Surfa	ace	Location				
UL or lot no.	Section 3	Township 27-N	Range 8-W	Lot Idn	Feet from 890	the	North/South line SOUTH	Feet from the 1845	East, EAST	/West line	County SAN JUAN
			11 Botto	m Hole	Location	on I	f Different Fro	om Surface			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from	the	North/South line	Feet from the	East	/West line	County
<sup>12</sup> Dedicated Acre	s		<sup>13</sup> Joint or I	nfill	14 Consolida	tion C	ode	<sup>18</sup> Order No.			J
320.86		E/2	Y								•
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16								I hereby o	ertify that	the informati	RTIFICATION ton contained herein of my knowledge and



Office Office 10 Appropria	IN DISTRICT	State of	new Me	XICO		Form C-	
District I		Energy, Minerals	and Natu	ral Resources		March 4,	2004_
1625 N. French Dr., Hobbs, N	M 88240				WELL API NO.		
District II		OIL CONSERV	ATION	DIVISION			
1301 W. Grand Ave., Artesia, District III	NM 88210	1220 South				of Lease Federal	1
1000 Rio Brazos Rd., Aztec, N	VM 87410				STATE	FEE	
District IV		Santa Fe	e, NM 87	7505	6. State Oil & G	as Lease No.:	1
1220 S. St. Francis Dr., Santa	Fe, NM				Federal: SF-0784	481A	
87505	DRY MOTIC	TEC AND DEPONTE OF	IWELLC		7 Lana Nama a	- I lait A groom out No.	<del></del>
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		ATION FOR PERMIT" (FORM			GRAHAM		
PROPOSALS.)	002 12101	(1011)			8. Well Number:	•	
1. Type of Well:					#100	•	1
Oil Well G	as Well 🔀	Other			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
2. Name of Operator					9. OGRID Numb	per: 141852	
M & G DRILLING CO	MPANY						
3. Address of Operator	c/o Agent,	Mike Pippin LLC			10. Pool name or	r Wildcat:	
3104 N. Sullivan, Farn	ington, NM	87401 505-327-4573			Basin Fruitland (	Coal	]
4. Well Location			· · · · · · · · · · · · · · · · · · ·		<u></u>		
							- 1
Unit Letter	O- 890 f	feet from the South	line and	1845 feet from t	he East line		
Omt Better	_ <u></u> ,	OCC HOIN CITO		1015 1000 Hom t	MO		
Section 3		Township 27N R	ange XV	V NMPM S	San Juan County		j
SOCTION 3		11. Elevation (Show wh					
		5890' GL	icinci 2510,	, 101D, 111, O11, C11	·-/		
Pit or Below-grade Tank And	dication (For a	oit or below-grade tank closu	res. a form (	-144 must be attached			100000000
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		g 8W Pit type: Drilling.				esh water wen_ >1000 .	1
Distance from nearest surfac	re water_<200'.	Below-grade Tank Locatio	n UL	SectTwp	;		1
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M & G DRILLING COMPANY GRAHAM No. 100, 890 FSL 1845 FEL SECTION 3, T27N, R8W, N.M.P.M., SAN JUAN COUNTY, N. M. **GROUND ELEVATION: 5890,** DATE: NOVEMBER 1, 2004 CONSTRUCTION ZONE В c (6) (5) F 0.9 F 4.1 F 1.9 18 PIT 15' x 65' LAYDOWN N 62'53' E (1) ④ C 0.0 Wellhead to Back Wellhead to Front C 2.2 C 1.1 100' 100' REAR 2 48 NEW ACCESS 290' C, 3.6 2 56 © c 10.3 A' 50' C 6.3 C 5.8 B, 160' X 200'  $(260' \times 300') = 1.79 \text{ ACRES}$ NOTE: DAGGETT ENTERPRISES, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. NEW MEXICO ONE CALL TO BE NOTIFIED 48 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION. ELEV. A-A 5910 5900 5890 5880 C/L ELEV. B-B' 5910 5900 5890 5880 C/L ELEV. C-C' 5910 5900 Box 1 (505) NEW N o 5890 5880

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 #100 FRTC**

890' FSL, 1845' FEL Unit O Sec. 3 T27N R8W San Juan County, NM

## **Drilling Program**

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

Formation Name	Depth
Ojo Alamo	1192'
Kirtland	1332'
Fruitland	1987'
Pictured Cliffs	2154'
TD (4-1/2")	2250'

#### 2. NOTABLE ZONES

Gas or Oil Zones	Water Zones	Coal Zone
Fruitland	<del>.</del>	Fruitland
Pictured Cliffs	Ojo Alamo	
•	Kirtland	

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 ~400 psi. The drilling contract has not yet been awarded, thus the exact BOP model to be used is not yet known. A typical 7-1/16" 3,000 psi annular is on PAGE #5 with a choke manifold on PAGE #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 annular BOP will be used. 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 an upper Kelly cock with a handle, 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.

#### M & G DRILLING COMPANY GRAHAM #100 FRTC

890' FSL, 1845' FEL Unit O Sec. 3 T27N R8W San Juan County, NM

#### 4. CASING & CEMENT

Hole Size	O.D. Weigh	t (lb/ft)	<u>Grade</u>	<u>Age</u>	<u>Connection</u>	GL Setting Depth
12-1/4"	8-5/8"	23#	LS	New	ST&C	200'
6-1/4"	4-1/2"	11.6#	K-55	New	ST&C	2250'

Surface Casing will be cemented to the surface with ~165 cu. ft. (~140 sx) Class "B" cmt or equivalent (1.18 ft3/sx yield, 15.6 ppg, & 5.2 gps) with 2% CaCl2 and  $\frac{1}{4}$ /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.

**Production Casing** will be cemented to surface with a single stage. Total cement = ~334 cu. ft.(~173sx). 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 ~279 cu. ft. (~133 sx) Class "B" cmt or equivalent w/2% SM, 1/4#/sx cello flake, 3#/sx gilsonite mixed at 11.9 gps, 12.5 ppg for a yield of 2.09 cu. ft. per sx.

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. <u>MUD PROGRAM</u>

<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'-2250'	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. No open hole logs will run on this well. We plan to run a cased hole GR-neutron log during completion operations.

## M & G DRILLING COMPANY

**GRAHAM #100 FRTC** 

890' FSL, 1845' FEL Unit O Sec. 3 T27N R8W San Juan County, NM

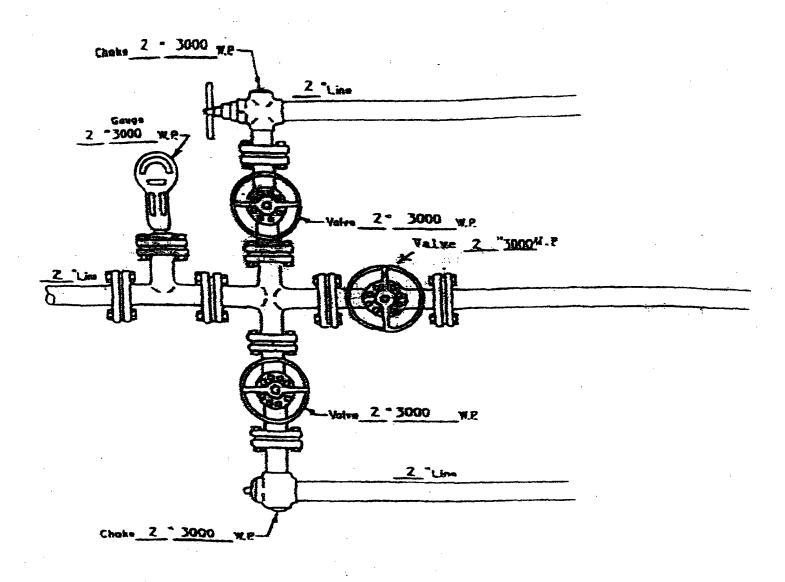
### 7. DOWN HOLE CONDITIONS

No abnormal pressures, temperatures, nor hydrogen sulfide are expected. Maximum pressure will be ~400 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, NM

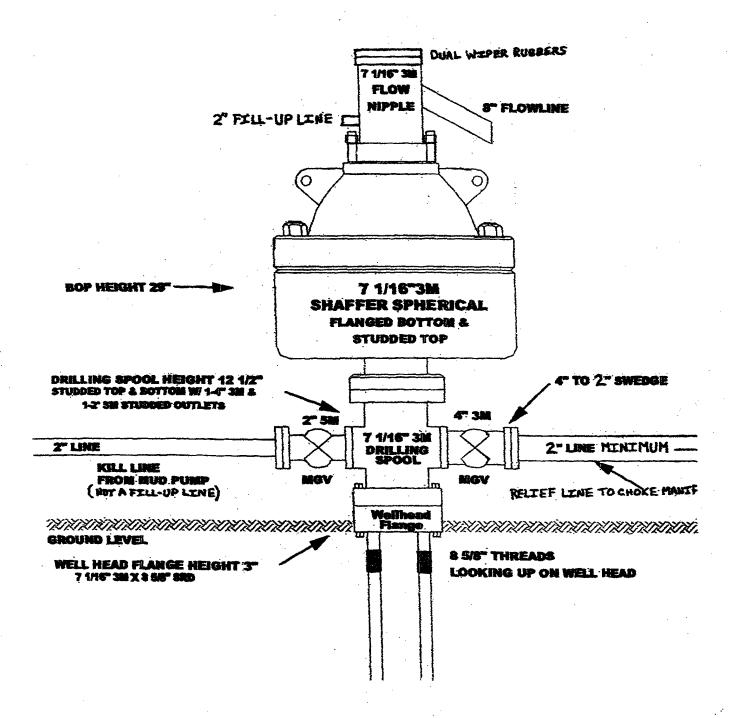


MANIFOLD.	Ø	Monuel
3000 #W.P		Hydraulic

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

# **Drilling Rig**

# 3000 psi BOP System



PAGE #6