Form 3160-3

UNITED STATES DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

	FORM APPROVED
1 MACF	OMB No. 1004-0136
ハパレン′゠	vnires November 30-20

٨	11164	ONE 110: 1007-0100
1	MST	Expires November 30, 20
:	Lease Des	ignation and Serial No.

ugust 1999)	DONEAG OF E		// [] []			Expires November	
API	PLICATION FOR PER	RMIT TO DRILL	OR REENT	ERIUL 27 A		Designation and Sei	nal No.
						n, Allottee or Tribe N	lame
				RECEIV	E N		
1a. Type of Work	DRILL	REENTER	(TO FARMING		or CA, Agreement, N	lame and No.
1b. Type of Well:	Oil Well Gas Well	Other Sin	ngle Zone	Multiple Zone		Name and Well No.	
2. Name of Operato	r				9. API We	ll No.	/ 2//
M&G Drilling (Company Inc.	NI	M OGRID # 14	1852		and Pool, or Explora	32484 torv
3a. Address C/C	Mike Pippin LLC	3b	. Phone Number	M. / 1 (1 (1 /2 /2 /2 /2 /2 /2 /2 /2 /2 /2 /2 /2 /2		in Fruitland C	
3104 N. Sulliv	an, Farmington, NM 8	37401 (5	05) 327-45	73	*	T., R., M., or Blk. an	
4. Location of Well (Footage, Sec, T. R., M, or Surve		100 c	162 S	T A		
At surface: At proposed prod. Zo	Unit C, 1305' FNL,	2265' FWL		₹00_	Sec	33, T-28-N, I	R-11-W
	s and direction from nearest tow	o or port office*	la la l	(-12 Coun	y or Parish,	13. State
6 Miles South of		To post office	(en		• ~ <i>₩</i> 58	Juan	New Mexic
15. Distance from p	roposed*		16. No of Acr	es in lease	77. Spaci	ng Unit dedicated to	this well
location to nearest	1305'		1 3	200 C	y		
propety or lease line			256	ned of the little	320	Acres N/2	
• •	,			The Property of the Parket	020	,,,,,,,	
(Also to nearest drig.			40.5		loo Di	ASSOLA Dend No. on	
18. Distance from p	•		19. Proposed	грери	20. 61	_M/BIA Bond No. or	Me
location to nearest w	rell 180'		1800'				
•	whether DF, KDB, RT, GL, etc.)		ate date work will start*	23. E	stimated duration	
5868' GL			Octo	per 22, 2004		30 days	
			Attachments				
The following	, completed in accordance with t	he requirements of Ons	hore Oil and Gas (
	certified by a registered surveyor			4. Bond to cover the op	erations unles	s covered by an exi	sting bond on file (see
2. A Drilling I		alian at Farrat Contain 1		Item 20 above).			
	Use Plan (if the location is on Na all be filed with the appropriate F	-	ands,me	 Operator certification Such other site spec 		and/or plane as m	ov he required by the
3070 \$11	all be filed with the appropriate r	orest bervice Office.		authorized officer	anc salormado	rancor plans as in	ay be required by the
Size of Hole	Condo Sino of Coning	T Moint	ht per Foot	Setting Depth		Quantity of Ce	ment
12-1/4"	Grade, Size of Casing 8-5/8" LS		3#	200'	'		3 - 100% Excess
6-1/4"	4-1/2" K-55		0.5#	1800'		141 Sxs. 268 f	3 - 45% Excess
The on-cita inca	ection was on 7/1/04 by B	rice Flarier					
Archy is by DCA		noc Danian					
EA & TE are by		SEE ATT/	ACHED APD IN	IFORMATION	L	atitude: 36 Deg	, 37 Min, 21 Sec I
·							00 Min, 38 Sec V
25. Signature	\wedge			Name(Printed/Typed)		Date	
	nost 1-4	•					
<u> </u>	11/100 Jan	Qin		Mike Pippin		Jul	y 27, 2004
Title Petro	oleum Engineer	•					
Approved by (Signa	ture)			Name(Printed/Typed)		Date	
War.	· man			Wayne To	- OWASC	10	128/09
Title 1	A EM			Office FFO			<u> </u>
Application and	I doop not upomore as a self. It is	andiana balda lasal		an debte in the subject i		المام	
	I does not warrant or certify the a	rbhicaut uoids legal of e	ont or entre sideshup:	se rights in the subject le	ease which wo	uia emme the applic	ZAITE TO
conduct operations	val, if any, are attached.						
Talland or abbit	·, ung, uro ungonou.						

*(Instructions on reverse)

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.

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, Arte-ia, N.M. 88210

DISTRICT III 1000 Rio Brazos Rd., Aztec, N.M. 87410 OIL CONSERVATION DIVISION

2040 South Pachego Santa Fe, NM 87505 JUL 27 671 10 00

Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

☐ AMENDED REPORT

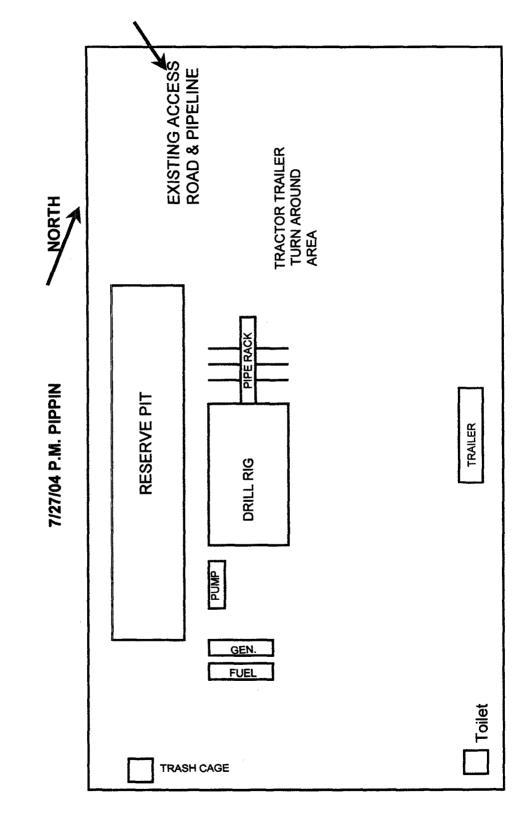
DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505

2040 South Pacheco, Sante	Fe, NM 67505					
	WELL LO	CATION AND	ACREAGE DED	CATION PLA	T	
20-01 API Number 32	484 7	*Pool Code 1629	BASIN FA	Pool Name	COAL	
Property Code			perty Name	4:1-7:	• Wel	l Number
134405		KRAUS	SE 33			103S
OGRID No.		_	rator Name			levation
14/852		M & G DRILLIN	G COMPANY INC.			5868'
			ace Location			
UL or lot no. Section C 33	Township Range 28-N 11-W	Let Idn Feet from 1305	North/South line NORTH	Feet from the 2265	East/West line WEST	SAN JUAN
	¹¹ Botto	om Hole Locati	on If Different Fr	om Surface		
UL or lot no. Section	Township Range	Lot Idn Feet from	the North/South line	Feet from the	East/West line	County
¹⁸ Dedicated Acres	¹⁵ Joint or	Infill Market Consolid	ation Code	¹⁶ Order No.		
320 N	12 Y					
NO ALLOWABLE	WILL BE ASSIGNED	TO THIS COMP	LETION UNTIL ALL	INTERESTS HA	VE BEEN CO	NSOLIDATED
16			S BEEN APPROVED			
SEC. CORNER	S89*56'15*E	A QTR. CORNER	SEC. CORN		EDAMOD CET	TEOTER A DISTING
FD. 2 1/2" BC. 1913 U.S.G.L.O.	2643.1' (M)	FD. 2 1/2" BC. B.O.R. BM.	FD. 2 1/2" 1 1913 U.S.G.L	3C. / E	ERATOR CER	
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	305	2	2639.7' (M)	belief.	\wedge	
	-			-20	/ / / ^	
0005	KRAUSE #65 ☆			9/16	to teppe	in
2265'				Signature	/- D./	1000
	LAT.	= 36'37'21" N		MIK) P/N
	LONG	G. =108°00'38" W.	(NAD 83)	Printed Na		ENGA
(0)				Title	T-PETR 7-26-0	· LIVOR
5281.1' (C)			•		7-26-0	4
528				Date		
		3 3 ••••••				
≥				18 SUR	EVEYOR CER	TIFICATION
00.03,		I AS	10 7 2	11	that the well locatio	
ŏ z		No Was	200	was plotted from	m field notes of actua	il surveys made by
_		I G QI	5 6	l I	VIII A	at the same is true
				and correct to	Mary Supple	
					CAP MEXICA	34
		The state of the s	Andrew Control	Date of Sun Signeral Co	d Sell MRAS	al secor.
SEC. COI	RNFR		As at Sec.			
CALC'D CORNER						\$ /
COMMER	WITNESS CORNER TO			\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	PROFESSION	7/
Commala a hii	S. QTR. CORNER S 89'56'28" W 19 C	THN THN			14831	
S89°56′28″W 1383.8′ (C)	1913 U.S.G.L.O. BC.			Certificate Nu	mber	

Submit 3 Copies To Appropriate District	State of	New Mexico	Form C-103	3
Office District I	Energy, Minerals	and Natural Resources	March 4, 200)4
1625 N. French Dr., Hobbs, NM 88240			WELL API NO.	
District II	OIL CONSERV	ATION DIVISION		_
1301 W. Grand Ave., Artesia, NM 8821 District III	V	n St. Francis Dr.	5. Indicate Type of Lease Federal	
1000 Rio Brazos Rd., Aztec, NM 87410		e, NM 87505	STATE FEE	_
District IV	Santa Fe	e, INIVI 6/303	6. State Oil & Gas Lease No.	
1220 S. St. Francis Dr., Santa Fe, NM 87505			Federal: NM-078863	
	OTICES AND REPORTS O	N WELLS	7. Lease Name or Unit Agreement Name	;
(DO NOT USE THIS FORM FOR PRO			KRAUSE 33	
DIFFERENT RESERVOIR. USE "API PROPOSALS.)	'LICATION FOR PERMIT" (FORM	M C-101) FOR SUCH	0 77 1137	
1. Type of Well:			8. Well Number	
	⊠ Other		#103s	
2. Name of Operator			9. OGRID Number 141852	\neg
M & G DRILLING COMPAN	Y			
3. Address of Operator c/o Ag	gent, Mike Pippin LLC		10. Pool name or Wildcat	
3104 N. Sullivan, Farmington,	NM 87401 505-327-4573		Basin Fruitland Coal	
4. Well Location				
Unit Letter <u>C: 1</u>	305 feet from the North	_ line and <u>2265</u> feet from	m the <u>West</u> line	
		n 1111 30.601		
Section 33		Range 11W NMPM		
	11. Elevation (Show w	hether DR, RKB, RT, GR, ei	(c.)	
Pit or Below-grade Tank Application		res a form C-144 must be attache	<u></u>	
•				
1			'Distance from nearest fresh water well >1000'.	
Distance from nearest surface water_>	>1000' Below-grade Tank Locati	lon ULSectTwp_		1
feet from the line a	ndfeet from the	line		
		==		
			Report or Other Data	
12. Chec	ck Appropriate Box to Ir	ndicate Nature of Notice		
12. Chec	ck Appropriate Box to In INTENTION TO:	ndicate Nature of Notice	BSEQUENT REPORT OF:	
12. Chec	ck Appropriate Box to In INTENTION TO:	ndicate Nature of Notice	BSEQUENT REPORT OF:	
12. Chec	ck Appropriate Box to In INTENTION TO:	ndicate Nature of Notice SUI N	BSEQUENT REPORT OF: RK	
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M & G DRILLING COMPANY INC. KRAUSE 33 No. 103S, 1305 FNL 2265 FWL SECTION 33, T28N, R11W, N.M.P.M., SAN JUAN COUNTY, N. M. GROUND ELEVATION: 5868, DATE: May 17, 2004 CONSTRUCTION ZONE B С C 3.2 5 F 2.8 C 0.4 35, 20 180 1 4 Ω C 0.0 Wellhead to Back F 3.0 LAYDOWN N 25'03' W C 1.0 Wellhead to Front 100' REAR 100 20, NO NEW ACCESS C 0.0 3 C 22.6 2 C 9.8 $(270' \times 300') = 1.86 \text{ ACRES}$ 170' X 200' 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. C/L ELEV. A-A' 5880 5870 5860 5850 ELEV. B-B' 5880 5870 5860 eying and Oil Field Services Box 15068 • Farmington, NM 87401 (505) 326-1772 • Fax (505) 326-6018 5850 ELEV. C-C' 5880 5870 Surveying <u>ن</u> 0 <u>5860</u> 5850 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. KRAUSE 33 #103s FRTC C SEC. 33 T28N R11W SAN JUAN COUNTY, NM



M & G DRILLING COMPANY KRAUSE 33 #103s FRTC

1305' FNL, 2265' FWL Unit C Sec. 33 T28N R11W San Juan County, NM

Drilling Program

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

Formation Name	<u>Depth</u>
Ojo Alamo	601
Kirtland	677'
Fruitland	1439'
Pictured Cliffs	1719'
TD (4-1/2")	1800'

2. NOTABLE ZONES

Gas or Oil Zones	Water Zones	Coal Zone
Fruitland		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.

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.

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 KRAUSE 33 #103s FRTC

1305' FNL, 2265' FWL Unit C Sec. 33 T28N R11W San Juan County, NM

4. CASING & CEMENT

<u>Hole Size</u>	O.D. Weig	ht (lb/ft) Grade	<u>Age</u>	Connection	GL Setting Depth
12-1/4"	8-5/8"	23# LS	New	ST&C	200'
6-1/4"	4-1/2"	10.5# K-55	New	ST&C	1800'

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 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 = ~268 cu. ft.(~141sx). 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 ~212 cu. ft. (~101 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.

Tail cement will be ~56 cu. ft. (~40 sx) Class "B" cmt or equivalent w/1% gel, 2% Cacl2, ½#/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./ppg.	<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

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 KRAUSE 33 #103s FRTC

1305' FNL, 2265' FWL Unit C Sec. 33 T28N R11W San Juan County, NM

7. DOWN HOLE CONDITIONS

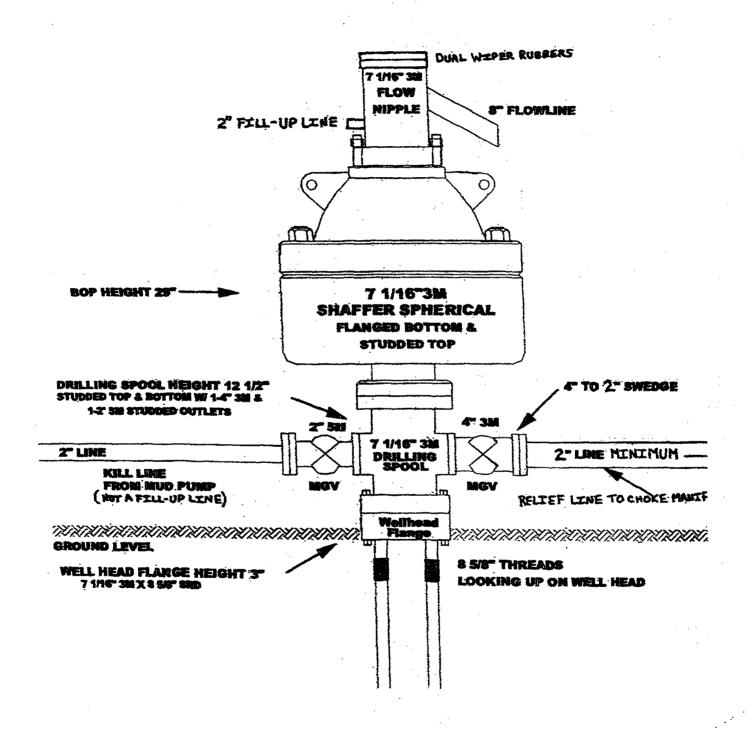
No abnormal pressures, temperatures, nor hydrogen sulfide are expected. Maximum pressure will be ~400 psi.

8. OTHER INFORMATION

The anticipated spud date is October 22, 2004. 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.

Drilling Rig

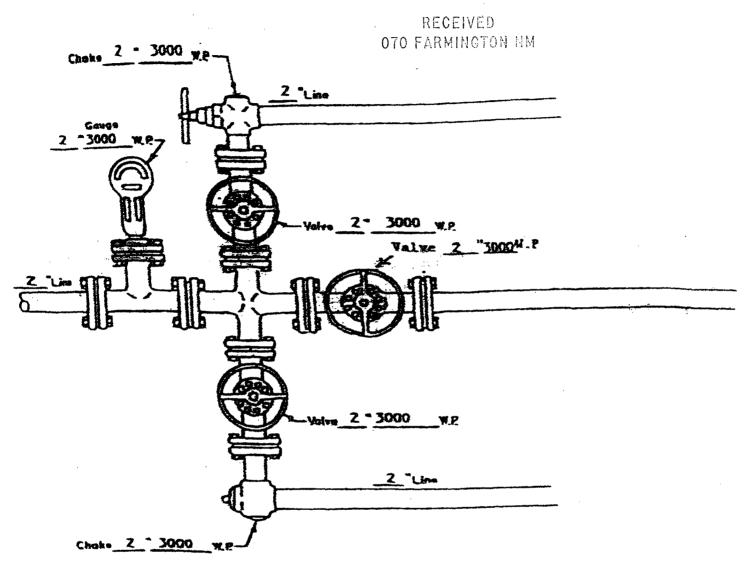
3000 psi BOP System



PAGE #5

M & G DRILLING COMPANY SAN JUAN COUNTY, NM

2004 AUG 5 PM 2 34



MANIFOLD Manual

3000 #W.P Hydraulic

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