UNITED STATES DEDARTMENT OF THE INTERIOR

DRILLING OPERATIONS AUTHORIZED ARE BUBJECT TO COMPLIANCE WITH ATTACHED **GENERAL REQUIREMENTS**.

FORM APPROVED OMR No. 1004-0136

OMB NO. 1004-0136	
Expires November 30, 2000	
ease Designation and Cariel No.	

kugust 1999)	BUREAU OF LA	ND MANACEN	#ENT			Eveinon	November 30,	2000
	BUNEAU OF LA	IND MANAGEN	ILIN I		5 lea	se Designation		
ADI	PLICATION FOR PERI	MIT TO DRILL	OBIBEENTE	3 6/10		M-078863		,
AFI	FLICATION FOR FLIXI	WILL TO DIVIEL		וחדרייו מי		dian, Allottee o		<u> </u>
			nr.	OT DUE 6	0.1111	diali, Allottee C	TIME NAME	•
1a. Type of Work	DRILL	REENTER		CEIVED MINGTON II	7. If U	nit or CA, Agre	ement, Nam	e and No.
	F-71	<u> </u>						
1b. Type of Well:	Oil Well Gas Well	Other Sin	ngle ZoneMu	Itiple Zone	1 .	se Name and ' RAUSE #		
2. Name of Operator					9. API	Well No.	27	514
M&G Drilling C	Company Inc.	N	VI OGRID # 1418	52	40 Ei	Well No.	- Evolomton	
3a. Address C/O	Mike Pippin LLC	3b.	Phone Number	X 4 5 6 %	В	asin Fruitl	and Coa	1/Kutz AC
	an, Farmington, NM 87		05) 327-4573) · · · · / 3		c., T., R., M.,		
	Footage, Sec, T. R., M, or Survey		108	10 VI C				
At surface:	Unit I, 1975' FSL, 77	5' FEL			TS	ec 28, T-2	8-N, R-1	11-W
At proposed prod. Zo	one: Same			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	12			
14. Distance in miles	and direction from nearest town o	or post office*			₩2. Cc	ounty or Parish	, /	13. State
6 Miles South of	Bloomfield, NM		KS.		S	an Juan		New Mexico
15. Distance from pr	roposed*		16. No of Acres	in lease	ጉ) 17. Sp	acing Unit dec	licated to this	s well
location to nearest	775'		1 To.		1		_	
propety or lease line,	ft.		2560	2120266	3:	20 Acres	S/2FC	•
(Also to nearest drig.				Con Oliver		20 Acres	5K/4 P	<u>C</u>
18. Distance from pr		· · · · · · · · · · · · · · · · · · ·	19. Proposed D	epth		. BLM/BIA Bor		
location to nearest w	44401		1950'	•				
					l			
21. Elevation (Show	whether DF, KDB, RT, GL, etc.)		22. Approximate	date work will start*	23	. Estimated du	ration	
5890' GL				ber 24, 2004		30 day		
		24. A	ttachments	· · · · · · · · · · · · · · · · · · ·				
The following.	, completed in accordance with the	requirements of Onsi	hore Oil and Gas Ord	er No. 1, shall be atta	ched to thi	s form:		
1. Well plat o	ertified by a registered surveyor.		4.	Bond to cover the op	erations ur	less covered l	y an existing	g bond on file (see
2. A Drilling P				Item 20 above).				
	Use Plan (if the location is on Nation	nnal Forest System I s	ande the 5	Operator certification	`			
01100	- H. L	•		•				
SUPO sha	all be filed with the appropriate For	•		Such other site spec		ation and/or pla	ins as may b	e required by the
		est Service Office.	6.	Such other site spec authorized officer	ific informa			
SUPO sha	Grade, Size of Casing	est Service Office. Weigh		Such other site spec	ific informa	Quant	ity of Cemen	t
Size of Hole		est Service Office. Weigh	6. nt per Foot	Such other site spec authorized officer Setting Depti	ific informa	Quant 140 Sxs	ity of Cemen , 165 ft3 -	
Size of Hole 12-1/4"	Grade, Size of Casing 8-5/8" LS	est Service Office. Weigh	6. at per Foot 3#	Such other site spectauthorized officer Setting Depth 200'	ific informa	Quant 140 Sxs	ity of Cemen , 165 ft3 -	t 100% Excess
Size of Hole 12-1/4" 6-1/4"	Grade, Size of Casing 8-5/8" LS 4-1/2" K-55	est Service Office. Weigh 23	6. at per Foot 3#	Such other site spectauthorized officer Setting Depth 200'	ific informa	Quant 140 Sxs	ity of Cemen , 165 ft3 -	t 100% Excess
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Size of Hole 12-1/4" 6-1/4" The on-site inspearchy is by DCA. EA & TE are by It 25. Signature Title Petro Approved by (Signat	Grade, Size of Casing 8-5/8" LS 4-1/2" K-55 ection was on 6/31/04 by Bridge Street St	Weigh 23 10 10 ice Barlan SEE ATTA	6. It per Foot ## 0.5# ACHED APD INFO No Of	Such other site spec authorized officer Setting Deptt 200' 1950' DRMATION Ime(Printed/Typed) Mike Pippin Ime(Printed/Typed)	tific informa	Quant 140 Sxs 152 Sxs Latitude: 3	ity of Cemen , 165 ft3 - , 290 ft3 - , 290 ft3 - , 8 Deg, 37 8 Deg, 00 Date Augus	100% Excess 45% Excess Min, 53 Sec N Min, 10 Sec W
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NMOCD

This action is subject to technical and presedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

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 87605

WELL LOCATION AND ACREAGE DEDICATION PLAT *Pool Code BASIN FRUITLAND 71629 115 **KRAUSE** ⁶Operator Name • Elevation

5890' M & G DRILLING COMPANY INC. ¹⁰ Surface Location Feet from the North/South line UL or lot no. Section Township Feet from the East/West line Range Lot Idn County SAN JUAN 28 28-N 11-W 1975 SOUTH 775 **EAST** ¹¹ Bottom Hole Location If Different From Surface North/South line Feet from the Lot Idn Feet from the UL or lot no. Section East/West line Township County Dedicated Acres ¹³ Joint or Infill 14 Consolidation Code 15 Order No. 320 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 OPERATOR CERTIFICATION I hereby certify that the information contained herein

QTR. CORNER FD. 2 1/2" BC. 1913 U.S.G.L.O. SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plai 775' 2640.3°(M) LAT. = $36^{\circ}37'53''$ N. (NAD 83) LONG. =108'00'10" W. (NAD 83) 975 00.00,48" SEC. CORNER FD. 2 1/2" BC. 1913 U.S.G.L.O. SEC. CORNER FD. 2 1/2" BC. 1913 U.S.G.L.O. 14831 N 89'51'03" W Certificate Number S89°51'03"W | 2638.0' (M) 2643.1' (M)

1625 N. French Dr., Hobbs, NM 88240

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102

Revised June 10, 2003

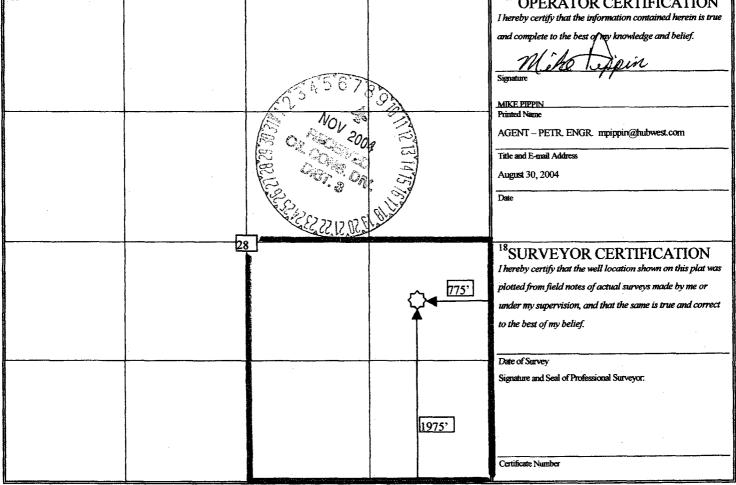
Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

1 4	API Number	r		² Pool Code			³ Pool Nam	ie	
				79680		KU'	TZ PICTURED C	LIFFS, WEST	
⁴ Property C	Code		⁵ Property Name						Well Number
					KRAUS	SE			#11s
7 OGRID N	No.				8 Operator !	Vame			⁹ Elevation
141852	2		M & G DRILLING COMPANY 5890						5890'
					¹⁰ Surface 1	Location			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	28	28N	11 W		1975'	SOUTH	775'	EAST	SAN JUAN
		<u> </u>	11 B	ottom Ho	le Location I	Different Fron	n Surface		
UL or lot no.	Section	Township	Range		Feet from the	North/South line	Feet from the	East/West line	Coun
12 Dedicated Acres	13 Joint o	r Infili 14 C	Consolidation	Code 15 On	der No.		<u> </u>	<u></u>	<u> </u>
160 ACRES SE/4	4 N	l l							

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 **OPERATOR CERTIFICATION**



Submit 3 Copies To Appropriate District	State of New Me	exico		Form C-	
Office District I	Energy, Minerals and Natu	ral Resources		March 4,	2004
1625 N. French Dr., Hobbs, NM 88240			WELL API NO.		
District II	OIL CONSERVATION	DIVISION			
1301 W. Grand Ave., Artesia, NM 88210 District III	1220 South St. Fra			of Lease Federal	
1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, NM 8		STATE 6. State Oil & G	FEE	
District IV	Saina Pe, NWI 6	1303	Federal: NM-07		
1220 S. St. Francis Dr., Santa Fe, NM 87505			reuerai. Nivi-07	0003	
		JG BACK TO A	7. Lease Name of KRAUSE	or Unit Agreement Na	me
PROPOSALS.)	THOM CHAPTER (FORM C 101) FO	AC DOCK	8. Well Number		
1. Type of Well:			#11S		
Oil Well Gas Well	Other				
2. Name of Operator			9. OGRID Num	ber 141852	
M & G DRILLING COMPANY 3. Address of Operator c/o Agent,	Mike Pinnin I I C		10. Pool name o	w Wildcat	
3. Address of Operator Co Agent, 3104 N. Sullivan, Farmington, NM			Basin Fruitland		
4. Well Location	303-327-4373		Dashi Hukkaka	Cour	
4. Well Location					
Unit Letter I: 1975	feet from the South line and	775 feet from th	e Fast line		
Olit Better 1. 1973	loct from the <u>south</u> fine that				
Section 28	Township 28N Range	11W NMPM	San Juan County	y	
	11. Elevation (Show whether DI	R, RKB, RT, GR, etc.)		
	5890' GL				
Pit or Below-grade Tank Application (For	pit or below-grade tank closures, a form	C-144 must be attached)			
Pit Location: UL I Sect 28 Twp 28N R	ng 11W Pit type: Drilling. Depth t	o Groundwater <u>>100'.</u> 1	Distance from nearest	fresh water well $\geq 1000^{\circ}$.	İ
Distance from nearest surface water >1000	Below-grade Tank Location UL	SectTwp	Rng;		İ
feet from theline and	feet from theline				1
10 01 1 1			D	D .	
	ppropriate Box to Indicate N				
NOTICE OF IN	TÊNTION TO:	SUB	SEQUENT RE	PORT OF:	
	TÊNTION TO:		SEQUENT RE		'
NOTICE OF IN	TÊNTION TO:	SUB	SEQUENT RE	PORT OF:	;
NOTICE OF IN	TÊNTION TO: PLUG AND ABANDON 🔲	SUB:	SEQUENT RE	PORT OF: ALTERING CASING PLUG AND	_
NOTICE OF IN PERFORM REMEDIAL WORK	TÊNTION TO: PLUG AND ABANDON CHANGE PLANS MULTIPLE COMPLETION	SUB: REMEDIAL WOR COMMENCE DRI CASING TEST AN	SEQUENT RE	PORT OF: ALTERING CASING PLUG AND	_
NOTICE OF IN PERFORM REMEDIAL WORK TEMPORARILY ABANDON PULL OR ALTER CASING OTHER: Drilling Pit Regist	TENTION TO: PLUG AND ABANDON CHANGE PLANS MULTIPLE COMPLETION tration	SUB: REMEDIAL WOR COMMENCE DRI CASING TEST AN CEMENT JOB OTHER:	SEQUENT RE	EPORT OF: ALTERING CASING PLUG AND ABANDONMENT	
NOTICE OF IN PERFORM REMEDIAL WORK TEMPORARILY ABANDON PULL OR ALTER CASING OTHER: Drilling Pit Regist 13. Describe proposed or complete.	TENTION TO: PLUG AND ABANDON CHANGE PLANS MULTIPLE COMPLETION tration eted operations. (Clearly state all	REMEDIAL WOR COMMENCE DRI CASING TEST AN CEMENT JOB OTHER: pertinent details, an	SEQUENT RE K	PORT OF: ALTERING CASING PLUG AND ABANDONMENT Ites, including estimat	☐ ☐ ed date
NOTICE OF IN PERFORM REMEDIAL WORK TEMPORARILY ABANDON PULL OR ALTER CASING OTHER: Drilling Pit Regist 13. Describe proposed or complete of starting any proposed wo	TENTION TO: PLUG AND ABANDON CHANGE PLANS MULTIPLE COMPLETION tration	REMEDIAL WOR COMMENCE DRI CASING TEST AN CEMENT JOB OTHER: pertinent details, an	SEQUENT RE K	PORT OF: ALTERING CASING PLUG AND ABANDONMENT Ites, including estimat	☐ ☐ ed date
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NOTICE OF IN PERFORM REMEDIAL WORK TEMPORARILY ABANDON PULL OR ALTER CASING OTHER: Drilling Pit Regist 13. Describe proposed or complete of starting any proposed wo	TENTION TO: PLUG AND ABANDON CHANGE PLANS MULTIPLE COMPLETION tration eted operations. (Clearly state all ork). SEE RULE 1103. For Multi	REMEDIAL WOR COMMENCE DRI CASING TEST AT CEMENT JOB OTHER: pertinent details, and ple Completions: At	SEQUENT RE K	PORT OF: ALTERING CASING PLUG AND ABANDONMENT Ites, including estimates of proposed com	□ □ ed date pletion
NOTICE OF IN PERFORM REMEDIAL WORK TEMPORARILY ABANDON PULL OR ALTER CASING OTHER: Drilling Pit Regist 13. Describe proposed or completion of starting any proposed wo or recompletion. We intend to drill a new FRTC well.	TENTION TO: PLUG AND ABANDON CHANGE PLANS MULTIPLE COMPLETION tration Eted operations. (Clearly state all ork). SEE RULE 1103. For Multi The drilling pit will be built and	SUB: REMEDIAL WOR COMMENCE DRI CASING TEST AT CEMENT JOB OTHER: pertinent details, an ple Completions: At	SEQUENT RE K	PORT OF: ALTERING CASING PLUG AND ABANDONMENT Ites, including estimate gram of proposed come elines on file at the Nites.	□ □ ed date pletion
NOTICE OF IN PERFORM REMEDIAL WORK TEMPORARILY ABANDON PULL OR ALTER CASING OTHER: Drilling Pit Regist 13. Describe proposed or comple of starting any proposed wo or recompletion. We intend to drill a new FRTC well. in Aztec, NM. When this drilling pit is closed, it will be the proposed would be the	TENTION TO: PLUG AND ABANDON CHANGE PLANS MULTIPLE COMPLETION tration Eted operations. (Clearly state all rk). SEE RULE 1103. For Multi The drilling pit will be built and ill be closed as per our general pit above is true and complete to the	SUB: REMEDIAL WOR COMMENCE DRI CASING TEST AN CEMENT JOB OTHER: pertinent details, and ple Completions: An lined according to on closing guidelines of best of my knowledge	SEQUENT RE K	PORT OF: ALTERING CASING PLUG AND ABANDONMENT Ites, including estimate gram of proposed come elines on file at the NI CD.	ed date pletion
NOTICE OF IN PERFORM REMEDIAL WORK TEMPORARILY ABANDON PULL OR ALTER CASING OTHER: Drilling Pit Regist 13. Describe proposed or comple of starting any proposed wo or recompletion. We intend to drill a new FRTC well. in Aztec, NM. When this drilling pit is closed, it with the starting pit is closed, it with the starting pit is closed.	TENTION TO: PLUG AND ABANDON CHANGE PLANS MULTIPLE COMPLETION tration eted operations. (Clearly state all rk). SEE RULE 1103. For Multi The drilling pit will be built and ill be closed as per our general pit above is true and complete to the losed according to NMOCD guidelines [SUB: REMEDIAL WOR COMMENCE DRI CASING TEST AN CEMENT JOB OTHER: pertinent details, and ple Completions: An lined according to on closing guidelines of best of my knowledge	SEQUENT RE K	PORT OF: ALTERING CASING PLUG AND ABANDONMENT Ites, including estimate gram of proposed come elines on file at the NI CD.	ed date pletion
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M & G DRILLING COMPANY INC. 775 FEL KRAUSE #11S, 1975 FSL SECTION 28, T28N, R11W, N.M.P.M., SAN JUAN COUNTY, N. M. **GROUND ELEVATION: 5890, DATE: JULY 1, 2004** CONSTRUCTION ZONE c 6 В <u>,</u>^ (5) C 10.0 C 10.9 C 7.9 8 ð RESERVE PIT 65' x 15' LAYDOWN N 7°26' W 1 ④ ຼັດ C 3.7 Wellhead to Front Wellhead to Back C 1.2 F 0.1 100' 100 REAR ACCESS 120, NEW ACCESS EXISTING 2 PIPELINE EXISTING ROAD 3 bF 8.8 X 300') = 1.79 ACRES F 9.4 B' NO NEW ACCESS 160' 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 5900 5890 5880 5870 C/L ELEV. B-B' 5900 5890 5880 Oil Field Services 5870 C/L ELEV. C-C' 5900 5890 7. 0. Box 18. Mone (505) 3. NEW ME 5880 5870 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 #

Form 3160-5* (November 1994)

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

SUNDRY NOTICES AND REPORTS ON WELLS

FORM	API	PRO	VED
OMB N	io. 1	004	-0135
Expires	July	31,	1996

Expires July 31, 1990	
Lease Serial No. M-078863	
If Indian, Allottee or Tribe Name	
ì	Lease Serial No. M-37 4-078863

abandoned wel	II. Use Form 3160-3 (APD)	for social proposals.	6M 10 51	O. M. MARKAL, 7 MA	order of Tribe Marke
				7. If Unit or CA	/Agreement, Name and/or No.
SUBMIT IN TRIPL	ICATE – Other instru	2006년 1월: 18월2일 1일: 12일: 12일: 12일: 12일: 12일: 12일: 12일			
1. Type of Well		OTO FARMI	NGTON NM		
Oil Well X Gas Well	Other			8. Well Name a	
2. Name of Operator				KRAUSE #1	
	c/o Mike Pippin LLC (Age			9. API Well No	
3a. Address		3b. Phone No. (include a	rea code)	2000	1239217
c/o: Pippin, 3104 N. Sullivan, Far		505-327-4573	 	į	ol, or Exploratory Area
4. Location of Well (Footage, Sec., T., R., I				Kutz Pictured	d Cliffs, West
1975' FSL 775' FEL (I) Sec. 28 T	28N R11VV			111. County of Pa	iisi, state
				San Juan Co	ounty, New Mexico
12. CHECK APPROPRIATE BOX(ES)	TO INDICATE NATURE OF N	OTICE, REPORT, OR OT	HER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION				
X Notice of Intent	Acidize Alter Casing	Deepen Fracture Treat	Production (S	tart/Resume)	Water Shut-Off Well Integrity
Subsequent Report	Casing Repair	New Construction	Recomplete		Other
	X Change Plans	Plug and Abandon	Temporarily A		
Final Abandonment Notice	Convert to Injection	Plug Back	☐ Water Dispos	al	
Following completion of the involved opportessing has been completed. Final Abdetermined that the site is ready for final inspection. Based on the evaluation of ologs do not show PC potentic intervals have common owned intervals have common owned.	andonment Notices shall be filed ection.) ppen hole logs, we may chal, the well will be comple ership.	nange this well's completed in the Fruitland C	pletion to Kutz P	have been comp	leted, and the operator has West. If the open hole
Name (Printed/Typed)	and correct	Title	16 pl oca		
Mike	Pippin		Petr.	Engr. (Agent)	
Signature Milati	Apin	Date	Augi	ust 25, 2004	,
	THIS SPAC	E FOR FEDERAL OR STA	ATE USE		7
Approved Marli Seu	chan	Title ACTUME	APM	Date (13/04
Conditions of approval, if any, are attached certify that the applicant holds legal or equ which would entitle the applicant to conduct	itable title to those rights in the s	t warrant or Office	3		
Title 18 U.S.C. Section 1001, makes it a crim fraudulent statements or representations as to a	e for any person knowingly and will any matter within its jurisdiction.	fully to make to any departme	ent or agency of the Un	ited States any fals	se, fictitious or

M & G DRILLING COMPANY KRAUSE #11s FRTC

1975' FSL, 775' FEL Unit I Sec. 28 T28N R11W San Juan County, NM

Drilling Program

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

Formation Name	<u>Depth</u>
Ojo Alamo	584'
Kirtland	787'
Fruitland	1518'
Pictured Cliffs	1804'
TD (4-1/2")	1950'

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.

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 & #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 KRAUSE #11s FRTC

1975' FSL, 775' FEL Unit I Sec. 28 T28N R11W San Juan County, NM

4. CASING & CEMENT

Hole Size	O.D. Weigh	<u>nt (lb/ft)</u>	<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"	10.5#	K-55	New	ST&C	1950'

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 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.

Production Casing will be cemented to surface with a single stage. Total cement = ~290 cu. ft.(~152sx). 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 ~234 cu. ft. (~112 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, 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./ppg.	Vis.	Fluid Loss	<u>PH</u>
0'-200'	FW gel/lime spud mud	8.4-8.7	30-50	NC	10
200'-1950'	FW gel/Polymer	8.3-8.6	30-35	<20cc's	9.5

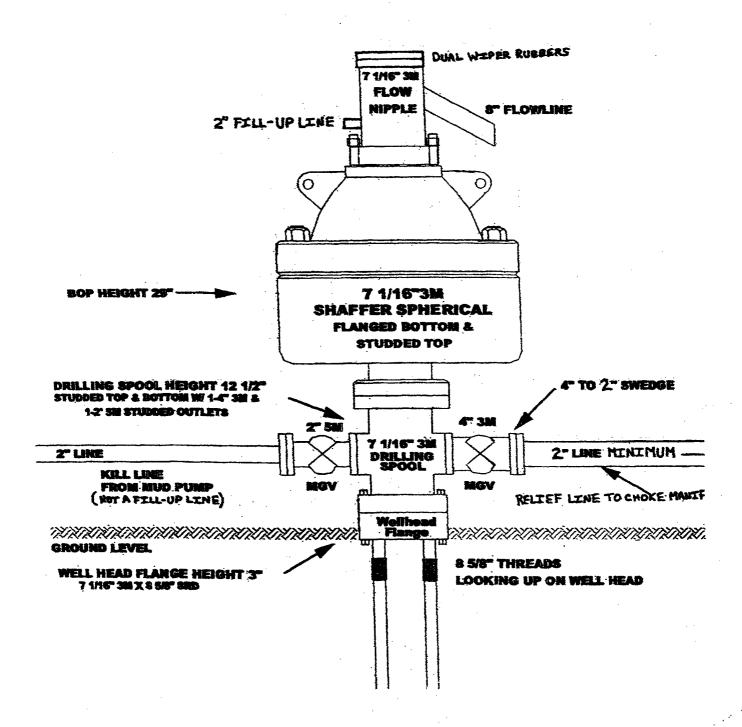
Lost circulation and absorption material will be on location.

6. CORING, TESTING, & LOGGING

No cores or drill stem tests are planned. Open hole logs will include GR, Neutron-Density, Caliper, Induction, and temperature.

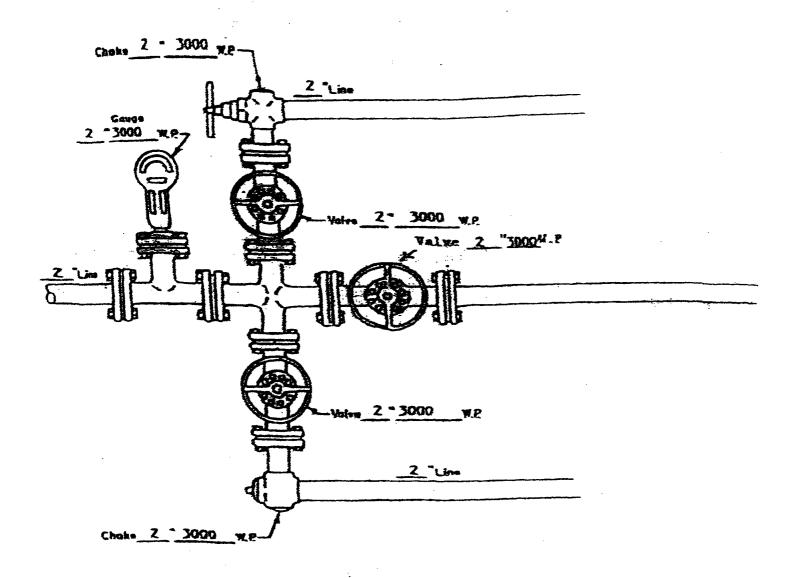
Drilling Rig

3000 psi BOP System



PAGE#5

M & G DRILLING COMPANY SAN JUAN COUNTY, NM



MANIFOLD Manual

3000 #W.P Hydroulic

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

PAGE#6 ATTACHENT NO. 2