Form 3160-3 (November 1983) (formerly 9-331C)	P.O. BOX 198	MER COT ATESIO	SUBMIT (Other	IN TR. JAT'S* Instructions on verse side)	Form approved, Budget Bureau 1 Expires August	31, 1985	
		F LAND MANAGEM			5. LEASE DESIGNATION NM-81633	AND SRELAL NO.	
APPLICAT	ION FOR PERMIT	TO DRILL, DEE	PEN, OR PLU	JG BACK	6. IF INDIAN, ALLOTTE	OR TRIBE NAME	
b. TIPE OF WELL	DRILL 🛛	DEEPEN 🗌	PLUG		7. UNIT AGENEMENT N.		
2. NAME OF OPERATI	GAS WELL OTHER				8. FARM OR LEASE NAN	()	
C. W. TRAI	NER				Mills Federa	1	
8. ADDEBAS OF OPER	TOR				7. <b>WALL NO.</b> 7		
P.O. Box 8 4. LOCATION OF WEL	88 Hobbs, N.M. L (Beport location clearly at	88241-0888 nd in accordance with any	State requirements		10. FIBLD AND POOL, OF		
330 At proposed prod	'FSL & 330'FWL			1	Red Tank Bor 11. BBC., T., B., M., OB B AND SURVEY OF AR		
14. DISTANCE IN MI	C AND DIRECTION FROM NE				Sec. 24-T22S		
<u>14 miles S</u>	outheast of Halfw				12. COUNTY OR PARISH Lea County	18. STATE NM	
15. DISTANCE FROM I LOCATION TO NE.	PROPUSED*		NO. OF ACEBS IN LEA		ACRES ASSIGNED	1411	
Also to pearest 18. DISTANCE FROM	reorosed Location*		600		40		
TO NEAREST WE	LL, DRILLING, COMPLETED, N THIS LEASE, FT.		PROPOSED DEPTH 10.150'	20. BOTAET	BY OR CABLE TOOLS		
	whether DF, RT, GR, etc.)				Rotary 22. APPROX. DATE WOR	E WILL START*	
<u>376</u>	9' GR		bad Controlled		ASAP		
SIZE OF HOLE	BIZE OF CASING	PROPOSED CASING AI	1				
17 1/2"	13 3/8"	48#	650'		QUANTITY OF CEMENT	t	
	8 5/8"	24# & 32#	4550'	1800 s	c. Circulated		
7 7/8"	5 1/2"	17# & 20#	10,150'	1000 s	k. Tie into 8	5/8"	
MUD PROGRA	<u>M:</u>			OPER. OGRID		<u> </u>	
	650'	Fresh water	and native m	PROPERTY N	Pu an		
	4550'	Brine Water	•		51685		
4550'10,150 Cut brine and starch. EFF. DATE 7-22-94					<b>f</b> ()		
					(		
hydra	s will be used an aulic actuated do	uble ram BOP and	d annular BOI	P. A rotati	They will coing assembly w	onsist of a ill also be	
	. BOP's will be	• •		9 8 8	openal Subject ( Cherc) Requirem Sacial Stipulation Mached	ants (g)d 16	
sone. If proposal is preventer program, if 24.	AIBS PROFOSED PROGRAM : If to drill or depen directions any.	proposal is to deepen or p ally, give pertinent data (	plug back, give data on subsurface locatio	on present product as and measured as	ive sone and proposed : nd true vertical depths.	new productive Give blowout	
	Manza		Agent		4-10	-94	
(This space for F	ederal or State office use)				<del> </del>		
PERMIT NO.	Devil	^	APPROVAL DATE				
APPROVED BY CONDITIONS OF APP	COH POLE ROVAL, EP ANY :	<u>ES</u> . TITLE	AREA MANA	GER	- DATE 7-19	1-94	

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## \*See Instructions On Reverse Side

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

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DISTRICT I P.O. Box 1980, Hobbs, MM 58940

DISTRICT II P.O. Box Drewer DD, Artenia, NM 80210

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DISTRICT III 1000 His Branes Bd., Astec HM 57416 DISTRICT IV

P.O. Box 2088, Santa Ps, XM 87504-2088

State of New Mexico

Inorgy, Massrals and Natural Resources Department

Form C-102 Revised February 10, 1984 Instruction on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

#### OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, New Mexico 87504-2068

D AMENDED REPORT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

				Valion	VUD ACUTA	GE DEDICATI	UN PLAT			
	Ramber			eel Code			Pool Respe			
30-025-32596			516	283		Red Tank Bone Spring				
Property C					Property Mag			Vel Ma	Vell Mumber	
1334					MILLS FEDE			7		
00000 Ma 3471	-				Operator Nex			Elevat	Elevation	
5 ( 7 )	t	<u> </u>			CW TRAIN	ER		3769		
					Surface Loci	tion				
UL er lot No.	Section	Township	Runge	Lot Mn	Fost from the	North/South Inc	Fost from the	Inst/Vest Ene	County	
M	24	22 S	32 E		330	SOUTH	330	WEST	LEA	
			Bottom	Hole To	cation if Diffe	rent From Sur		#•••	L	
UL or lot No.	Section	Township	Itempe		Just from the	Marth/South Mas		Zant/Vent Man	County	
<b>Dedicated</b> Acres	Joint of	han Cu	nsolidation C		tier No.	I			L	
4/2										
	 						f harring car enclosed for to the base hallog. No. C. Signature	Gene LEE	wallen.	
							Agent THe 	94		

		shown in this field noise of me or under the same to b bast of my be		fran. Ida by
	 	 Date Sufayed Bantur & Se Protestrijk		
<del>3761.9</del> *		J Quels		7
3771.5		fortificate Ma.	JOHN W. WEST, RONALD J. EDSDN,	678 3839

#### DRILLING PROGRAM

# RECEIVED

#### JUN 13 8 45 AH '94 JUN 13 8 45 AH '94 CARLS AREA AREA CARLS CARLS

In conjunction with Form 3160-3, Application for Permit to Drill subject well, C. W. TRAINER submits the following items of pertinent information in accordance with BLM requirements.

1. The geologic surface formation is sandy alluvium. The ground elevation is 3769'.

#### 2. The estimated tops of geologic markers are as follows:

Rustler	950'
Lamar	4800'
Delaware Sand	4850'
Cherry Canyon	6050'
Brushy Canyon	7400'
Bone Springs	8750'

3. Estimated depths at which water, oil or gas bearing formations are expected to be encountered are:

Fresh Water	350-500'
Bell Canyon	4950'-5050'
Brushy Canyon	8450'-8550'
Bone Spring	9900'-10,000'

No other formations are expected to give up oil, gas or fresh water in measurable quantities. The fresh water will be protected by setting the 13 3/8" casing at 650' and circulating cement to the surface. The 8 5/8" casing will be set at 4550' and cement circulated. Any zones above TD which contain commercial quantities of oil and/or gas will have cement circulated across them by inserting a cementing stage tool in the 5.5" production casing which will be run to TD.

#### 4. Proposed casing program:

•	<u>Hole Size</u> 17 1/2"	<u>Interval</u> 0-650'	<u>Csg. Size</u> 13 3/8"	Wt, Grade, Condition & Type New, 54.5#, J-55 ST&C R-3
		0'		0-650'
	11"	650'-4550'	8 5/8"	New, 24# & 32# K-55 LT&C, R-3
		/		0-400'32# K-55 LT&C R-3
				400-2000'24# K-55 ST&C R-3
				2000-4600'32# S-95 LT&C R3
		o' and		
	7 7/8"	4550-10150'	5 1/2"	New 17 & 20# N-80 LT&C, R-3
		/		0-400'20# N-80 LT&C, R-3
				400-8000'17# N-80 LT&C, R-3
				8000'10150'20# N-80 LT&C R3

Drilling Program Mills Federal #7 Page -2-

### 5. Pressure control equipment:

See Form 3160-3, and attached BOP diagram.

The BOP equipment shown in the diagram will consist of a double ram hydraulic preventer, and a bag-type annular preventer. Both units will be rated for 3000 psi working pressure. The pipe rams will be equivalent to whatever size drill pipe and casing is being used. Both BOP's will be nipple up on the 13 3/8" surface casing and used continuously to TD. All BOP equipment will be tested before drilling out of the surface casing. Before drilling out of the intermediate casing, the BOP's and associated closing equipment will be tested by an independent testing company to 3000#. Pipe rams will be operationally checked each 24 hour period. Blind rams will be tested on each trip out of the hole. These tests will be noted on the daily tour sheets. A kill line and choke line will be included in the drilling spool located below the BOP. Other accessories include a rotating head, kelly cock valve, floor safety valve, and choke lines and manifold with 3000# WP rating.

#### 6. Mud Program:

See Form 3160-3 & attached drilling program..

The well will be drilled to TD with a combination of fresh water, brine and cutbrine/starch mud system. The applicable depths and properties of this system are as follows:

From 0-650'	Fresh Water	WT:- 8.5 ppg.	Vis40	WLNC
650-4550'	Brine water	Wt: 10 ppg	Vis29	WLNC
4550-10150'	Cut Brine/starch	Wt:-9.0 ppg	Vis30	WL<20cc

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the wellsite at all times.

#### 7. Auxiliary Equipment:

A kelly cock valve will be kept in the drill string at all times.

A full opening drillpipe stabbing valve will be on the rig floor at all times.

A Pit volume totalizer system will be used below 8000' to monitor pit levels.

A mudlogging unit complete with H2S detector will be continuously used to

monitor drilling penetration rate and hydrocarbon shows below 4600'.

## 8. Testing, Logging and Coring Program:

Samples:	From base of surface to TD.			
DST's:	As warranted from shows.			
Coring:	None expected.			
Logging:	CNL-FDC from TD to Csg, GR-CNL to surface,			
	Sonic from TD to Base of Salt.			

## 9. Abnormal Conditions, Pressures, Temperatures, or Hazards.

No abnormal pressures, temperatures, or hazards are expected. The estimated bottom hole temperature at TD is 145 deg. F and estimated maximum bottom hole pressure is 3800 PSI. No hydrogen sulfid or other hazardous gases are expected to be encountered. No major loss of circulation zones have been reported in offset wells.

#### 10. Anticipated starting date:

As soon as possible after approval. Drilling operations will take approx. 16 days and an additional 15 days to complete and test.



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## Attachment to Exhibit #1 NOTES REGARDING THE BLOWOUT PREVENTERS

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- 1. Drilling nipple to be so constructed that it can be removed without use of a welder through rotary table opening, with minimum I.D. equal to preventer bore.
- 2. Wear ring to be properly installed in head.
- 3. Blow out preventer and all fittings must be in good condition, 3000 psi W.P. minimum.
- 4. All fittings to be flanged.
- 5. Safety valve must be available on rig floor at all times with proper connections, valve to be full bore 3000 psi W.P. minimum.
- 6. All choke and fill lines to be securely anchored, especially ends of choke lines.
- 7. Equipment through which bit must pass shall be at least as large as the diameter of the casing being drilled through.
- 8. Kelly cock on kelly.
- 9. Extension wrenches and hand wheels to be properly installed.
- 10. Blow out preventer control to be located as close to driller's position as feasible.
- 11. Blow out preventer closing equipment to include minimum 40 gallon accumulator, two independent sources of pump power on each closing unit installation, and meet all API specifications.



PILL INFO

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