Form 3160-3 (December 1990)	ับกไT DEPARTMENT	ED STATES		Contra F) MIT DN ther Inst. Treverse sid	CICATE.	Form approved. Budget Bureau N Expires: Decem 5. LEASE DESIGNATION	ber 31, 1991
	BUREAU OF	LAND MANAG	EMENT			USA NM 838478	3
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Matador Upera 3. ADDRESS AND TELEPHONE NO	ting Company	+12				30-005-	673111
	d., #158, Dallas	TX 75231	214-987-712	8		10. FIELD AND POOL, OI	WILDCAT
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	of Lake Arthur,	NM				Chaves	NM
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23.		PROPOSED CASE	NG AND CEMENTIN	G PROGRAM	ſ		
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17-1/2"	H-40, 13-3/8"	48#	4	00'	<u>375 s</u>	x circulate	
]]"	J-55, 8-5/8"	24#	1	00'	<u>650 s</u>	x circulate	
7-7/8"	N-80, 4-1/2"	11.6#	93	1001	900 s	x TOC @ 5000'	
	I	i	I		ı		

The Operator proposes to drill to a depth sufficient to test the Morrow formation. If productive, 4-1/2" casing will be set at TD and cemented back to approximately 5000'. If non-commercial, the well will be plugged and abandoned in accordance with federal regulations.

Well Location and Acreage Dedication Plat Application for Permit to Drill Surface Use Plan Exhibit "A" Area Map Exhibit "B" Wellsite Plan Exhibit "C" Production Map Exhibit "D" Blowout Preventer

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IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

SIGNED A Kam	TITLE ST	. Drilling Engineer	DATE 10/10/00
(This space for Federal or State office use)			
PERMIT NO		APPROVAL DATE	
Application approval does not warrant or certify that the applicant he	olds legal or equitable t	itle to those rights in the subject lease which would	entitle the applicant to conduct operations the
CONDITIONS OF APPROVAL, IF ANY:			
BLANDY D DRAY		n - Brian 11 Sid Maaa gen Dar yn Aris Dimaadd	
APPROVED BY	1171_E	·	

*See Instructions On Reverse Side

APPSOND DECEMBER 2004

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

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1000 Rio Br Aztec, NM 8	razos Ro	i.	Sant			exico 875	04-2088			AMENDED	REPORT
<u>DISTRICT IV</u> P. O. Box 2 Santa Fe, N	2088	^{7–2088} WE I	LL LOCAT	TION AN	D ACR	EAGE DEI	DICATION	PL	AT		
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014245	,,	<u> </u>				LOCATION					
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APPLICATION FOR PERMIT TO DRILL

MATADOR OPERATING COMPANY Foran Federal 30 #2 660' FNL; 660' FWL Sec 30, T15S, R28E Chaves County, New Mexico

In conjunction with Form 3160-3, Application for Permit to Drill, Matador Operating Company submits the following items of pertinent information in accordance with Onshore Oil and Gas Order Nos. 1 & 2, and with all other applicable federal and state regulations.

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1. Geological Name of Surface Formation: Permian

2. Estimated Tops of Important Geological Markers:

	Subsea	Measured Depth
Yates	+3300	110 MD
Queen	+2590	850 MD
San Andres	+1740	1700 MD
Glorieta	+410	3028 MD
Tubb	-880	4318 MD
Abo	-1690	5128 MD
Cisco	-3710	7150 MD
Atoka	-5080	8518 MD
T/Morrow Clastics	-5250	8688 MD *
B/Morrow Clastics	-5540	8978 MD
PTD	-5690	9300 MD

* Primary Reservoir Target

3. Estimated Depth of Anticipated Fresh Water, Oil or Gas:

Atoka	8518' MD	Gas
Могтоw	8688' MD	Gas

* Groundwater to be protected by 13-3/8" surface casing with cement circulated to the surface.

** Potentially productive horizons to be protected by 4-1/2" production casing with cement top at approximately 5000'.

4. Proposed Casing Program:

Hole Size	Interval	Casing OD	Description
26"	0-40'	20"	Conductor, if necessary
17-1/2"	0-400'	13-3/8"	48#, H-40 STC
11"	0-1800'	8-5/8"	24# J-55 STC
7-7/8"	0-9,300'	4-1/2"	11.6# N-80 LTC

Proposed Cementing Program:

20" Conductor:	Ready-mix poured to surface.
13-3/8" Surface Casing:	Cement with Lead: 175 sx Class "C" Lite with .25 pps Flocele, (s.w. 12.7 ppg, yield 1.85 ft ³ /sx), Tail: 200 sx Class "C" with 2% CaCl2 (s.w. 14.8 pps, yield 1.34 ft ³ /sx). Texas Pattern shoe w/ insert float valve, 2 centralizers.
8-5/8" Intermediate Casing:	Cement with Lead: 500 sx Interfill "C" with .25 pps Flocele, (s.w. 11.5 ppg, yield 1.59 ft ³ /sx. Tail: 150 sx Class C, 2% CaCl2 (s.w. 14.8 ppg, yield 1.34 ft ³ /sx). Float shoe w/ float collar, 4 centralizers.
4-1/2" Production Casing:	Cement with 1 st stage: Lead: 300 sx Interfill "H", .25 pps Flocele, (s.w. 11.5 ppg, yield 2.75 ft ³ /sx), Tail: 300 sx Super "H" Modified (15#/sk Poz + 11 #/sk CSE), .4% CFR-3, .5% Halad 344, 1 pps Salt, .1% HR-7, (s.w. 13.0 ppg, yield 1.65 ft ³ /sx). 2 nd Stage: Lead: 200 sx Interfil "H", .25 pps Flocele, (s.w. 11.5 ppg, yield 2.75 ft ³ /sx), Tail: 100 sx Class C neat (s.w. 14.8 ppg, yield 1.32 ft ³ /sx).

5. Pressure Control Equipment:

The blowout preventer equipment (BOP) shown in Exhibits D will consist of a double ram-type (5000 psi WP) preventer and a bag-type (hydril) preventer (3000 psi WP). Both units will be hydraulically operated and the ram-type preventer will be equipped with blind rams on top and 4-1/2" drill pipe rams on bottom. Both BOP's will be nippled up on the 13-3/8" surface casing and used continuously until TD is reached. All BOP's and accessory equipment will be tested to 1000 psi before drilling out of surface casing. Before drilling out of intermediate casing, the ram-type BOP and accessory equipment will be tested to 5000 psi and the hydril to 70% of rated working pressure (2100 psi).

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. A 2" kill line and 4" choke line will be included in the drilling spool located below the ram-type BOP. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and a choke manifold arc 4000 psi WP rating.

6. Proposed Mud System:

The proposed mud system will be a combination of fresh water, brine, cut brine, and polymer gel. The depth and mud properties of the mud system are listed below.

		Weight	Viscosity	Waterloss
Depth	Туре	(ppg)	(sec)	(cc)
0-400'	Fresh Water/spud	8.6-9.0	36-40	N.C.
400'-1800'	Fresh Water/Cut Brine	8.8-9.0	29-30	N.C.
1800'-8000'	Cut Brine	8.8-9.0	28-29	N.C.
8000'-9300'	Polymer/Starch	9.0-9.3	32-36	• 10 cc

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

- 7. Auxiliary Well Control and Monitoring Equipment:
 - A Kelly cock will be kept in the drill string at all times.
 - A full opening drill pipe stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.
 - A mud logging unit complete will be monitoring drilling penetration rate and hydrocarbon shows from 8000' to TD.
- 8. Drillstem Testing, Logging and Coring Programs:
 - Drillstem tests: None planned.
 - Electric logs: CNL-LDT-DLL-MSFL-GR: ICP to 9300' (GR-CNL to surface.
 - Coring: None planned.

9. Abnormal Conditions, Pressures, Temperatures, & Potential Hazards:

No abnormal pressure, temperature, or hazardous gas is anticipated. Maximum BHP is estimated at 3870 psig.

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10. Anticipated Starting Date and Duration of Operations:

The anticipated start date will be December 1, 2000. Once commenced, drilling operations should be completed in approximately 45 days. If the well is productive, another 30 days will be required for completion work and facility installation.

SURFACE USE PLAN MATADOR OPERATING COMPANY Foran Federal 30 #2 660' FNL, 660' FWL Sec 30, T15S, R28E Chaves County, New Mexico

- 1. EXISTING ROADS Area map, Exhibit "A", is a reproduction of the appropriate part of the U.S.G.S. New Mexico 7-1/2 minute quadrangle. Existing roads are shown on the exhibit and the road to be used on the referenced well is marked. All roads shall be maintained in a condition equal to that which existed prior to start of construction.
- 2.
- A. Exhibit "A" shows the proposed exploratory well site as staked.
- B. From junction of SH 507 & SH 2 in Lake Arthur, go northeast 5.0 miles on SH 507, then east 3.5 miles on Ratcamp road, continue east & southeast 3.5 miles on lease road, then northeast & north 1.3 miles on lease road to well #1, a point ± 3800 southeast of the location.
- 3. PLANNED ACCESS ROADS Approximately 3800' of new lease road beginning at existing well (Foran Federal 30 #1) and extending northwest to the well location.
- 4. LOCATION OF EXISTING WELLS ON A ONE-MILE RADIUS
 - A. Water wells <u>NA</u>.
 - B. Disposal wells <u>NA</u>.
 - C. Drilling wells <u>NA</u>.
 - D. Producing wells As shown on Exhibit "C".
- 5. If upon completion, the well is a producer, Matador Operating Company will furnish maps or plats showing "On Well Pad Facilities" and "Off Well Pad Facilities" (if needed) on a Sundry Notice before construction of these facilities starts.
- LOCATION AND TYPE OF WATER SUPPLY Water will be purchased locally from a private source and trucked over the access road.
- 7. SOURCE OF CONSTRUCTION MATERIALS

If needed, construction materials will be obtained from the drill site's excavations, or from a local source. These materials will be transported over the access route as shown in Exhibit "A".

8. METHODS FOR HANDLING WASTE DISPOSAL.

- A. 1. Drill cuttings will be disposed of in the reserve pit.
 - 2. Trash, waste paper, and garbage will be contained in a fenced trash trailer to prevent wind-scattering during storage. When the rig moves out, all trash and debris will be hauled to an approved land-fill site.
 - 3. Salts remaining after completion of the well will be picked up by the supplier, including broken sacks.
 - 4. Sewage from trailer houses will drain into holes with minimum depth of 10'00". These holes will be covered during drilling and back-filled upon completion. A "porta-john" will be provided for the rig crews. This will be properly maintained during the drilling operations and removed upon completion of the well.
 - 5. Chemicals remaining after completion of the well will be stored in the manufacturer's containers and picked up by the supplier.
- B. Remaining drilling fluids will be allowed to evaporate in the reserve pit until the pit is dry enough for back-filling. In the event drilling fluids will not be evaporated in a reasonable period of time, they will be transported by a tank truck to a state approved disposal site.

Water produced during testing of the well will be disposed of in the reserve pit. Oil produced during testing of the well will be stored in test tanks until sold and hauled from the site.

9. ANCILLARY FACILITIES

No camps or airstrips will be constructed.

10. WELL SITE LAYOUT

- A. Exhibit "B-1" shows the proposed well site layout.
- B. This exhibit indicates proposed location of the reserve pits and trash trailer.

- C. Mud pits in the active circulating system will be steel pits.
- D. The reserve pit is to be lined with a poly-ethylene liner. The pit liner will be a minimum of 6 mils thick. The pit liner will extend a minimum of 2'00" over the reserve pit dikes where the liner will be anchored down.
- E. The reserve pit will be fenced on three sides with four strands of barbed wire during drilling and completion phases. The fourth side will be fenced after all drilling operations have ceased. If the well is a producer, the reserve pit fence will be torn down. The reserve pit and those areas of the location not essential to production facilities will be reclaimed and seeded per BLM requirements.

11. PLANS FOR RESTORATION OF SURFACE

Rehabilitation of the location and reserve pit will start in a timely manner after all drilling operations cease. The type of reclamation will depend on whether the well is a producer or dry hole.

In either event, the reserve pit will be allowed to dry properly, and fluid removed and disposed of in accordance with Article 7.B as previously noted. The pit area will then be leveled and contoured to conform to the original and surrounding area as closely as is possible. Drainage system, if any, will be reshaped to the original configuration with provisions made to alleviate erosion. These may need to be modified in certain circumstance to prevent inundation of the location pad and surface facilities. After the area had been shaped and contoured, topsoil from the soil pits will be placed over the disturbed area to the extent possible. Revegetation procedures will comply with BLM standards.

Should the well be a producer, the previously noted procedures will apply to those areas which are not required for production facilities.

12. OTHER INFORMATION

- A. The topography is of hilly terrain with vegetation of sagebrush and native grasses. The soils are silty and very shallow.
- B. Surface lessee is Vogle Limited Company, P. O. Drawer 460, Dexter, NM 88230.
- C. An archaeological study has been conducted for the location and road. Archaeological survey submitted under separate cover.
- D. There are no buildings in the area.

13. OPERATOR'S REPRESENTATAIVE

Matador Operating Company's field representative for contact regarding compliance with the Surface Use Plan is:

Before, during, and after construction: Jim Kramer 8340 Meadow Road #158 Dallas, TX 75231 Office: 214-987-7128 Mobile: 915-553-3542

13. CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Matador Operating Company and its contractors/ subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Name: Jim Krainer, Sr. Drilling Engineer Date: 10/10/00 VICINITY MAP



SECTION	<u>30</u> TWP	<u>15-S</u>	RGE <u>28-E</u>
SURVEY	NEW MEXICO	PRINCIPAL ME	RIDIAN
COUNTY	CHAVES	STATE	NM
DESCRIPTION	6	50' FNL & 660)' FWL

OPERATOR MATADOR OPERATING COMPANY

LEASE ____

FORAN FEDERAL "30" #2



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This location has been very carefully staked on the ground according to the best afficial survey records, maps, and other data available to us. Review this plot and notify us immediately of any possible discrepancy.

TOPOGRAPHIC LAND SURVEYORS

Surveying & Mapping for the Oil & Gas Industry

1307 N. HOBART PAMPA, TX. 79065 (800) 658-6382 6709 N. CLASSEN BLVD. OKLAHOMA CITY, OK. 73116 (800) 654-3219 2903 N. BIG SPRING MIDLAND, TX. 79705 (800) 767-1653 Matador Operating Company Foran Federal 30 #2 660' FNL; 660' FWL Sec 30, T15S, R28E Chaves County, New Mexico

> Exhibit "B" Wellsite Plan



STANDARD LOCATION PLAT

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