For 3160-3 (December 1990) SUBMIT IN T LICATE.

dOther instrument on on contract instrument in the contract in /D8 OD Form approved.

Budget Bureau No. 1004-0136 Expires: December 31, 1991

## DEPARTMENT OF THE INTERIOR ASSO

BUREAU OF LAND MANAGEMENT NEW MEXICO BROWN

5. LEASE DESIGNATION AND SERIAL NO. NMNM51837

DEPEN DETINE OF WELL SO OFFICE OF STATES OF ST	APPL	ICATION FOR P	ERMIT TO DRIL	L OR DEEPEN	- GOZAC	6. IF INDIAN, ALLOTTER	OR TRIBE NAME	
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WRIL CO WELL COTTER SONE SONE OF SONE	. TYPE OF WELL							
MACADON DIRPOWERSON  JOURNAL OF DIRPOWERSON  ALS W. Wall J., Ste 1101, Midland, TX 79701, (915) 687-5955  LOCATION OF WILL (Report location clearly and in accordance with any State requirements.*)  ACCOUNT OF WILL (Report location clearly and in accordance with any State requirements.*)  AT PROPOSED FOR J. 2000 FEL  AT PROPOSED CASING AND CEMENTING PROGRAM  SIES OF ROLE OF PROPOSED LOCATION*  TO HARREST WILL INSLIEM, CONSTITUTE  AND J. 11, 400 FEDERALLY OF CASES OF THE PROPOSED DEFTH  J. 2000 FEDERALLY OF CASES OF THE PROPOSED FOR J. 2000 FEDERALLY OF CASES OF THE PROPOSED CASING AND CEMENTING PROGRAM  SIES OF ROLE OF CASES OF THE PROPOSED FEDERALLY OF CASES OF THE PROPOSED CASING AND CEMENTING PROGRAM  SIES OF ROLE OF CASES OF THE PROPOSED CASING AND CEMENTING PROGRAM  SIES OF ROLE OF CASES OF THE PROPOSED CASING AND CEMENTING PROGRAM  SIES OF ROLE OF CASES OF THE PROPOSED CASING AND CEMENTING PROGRAM  SIES OF ROLE OF CASES OF THE PROPOSED CASING AND CEMENTING PROGRAM  SIES OF ROLE OF CASES OF THE PROPOSED CASING AND CEMENTING PROGRAM  SIES OF ROLE OF THE PROPOSED CASING AND CEMENTING PROGRAM  SIES OF ROLE OF THE PROPOSED CASING AND CEMENTING PROGRAM  SIES OF ROLE OF THE PROPOSED CASING AND CEMENTING PROGRAM  SECOND TO THE PROPOSED CASING AND CEMENT TO THE PROPO	WELL (				PLE _			
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TO SHAREST WELL, BRILLING, COMPLETED, OR APPENDIX ON PRIBLEMS, TY.  11,400 ROTATY  22. APPEND. DATE WORK WILL STARY 3981' GL  PROPOSED CASING AND CEMENTING PROGRAM  SIER OF NOLE  13-3/8, H-40  48#  475' See below  7-7/8  5-1/2, N-80  17# & 20# 11,400' See below  - 13-3/8" csg: 230 sx Class C, 4% gel, 2% CaCl2, 200 sx Class C, 2% CaCl2.  - 8-5/8" csg: 650 sx Class C, 35/65 poz, 6% gel, 8#/sk salt, 1/4#/ck Flocele  200 sx Class C, 35/65 poz, 6% gel, 280 sx Class C, 50 /50 poz  2% gel, 5#/sk salt, .5% Halad 322  PLEASE BE ADVISED THAT THERE WELL BE NO EXCAVATION OF FEDERALLY CHAILD BEILDING THE AUGUST HEAD OR TABL WITHOUT PAYMENT IN ADVANCE.  ABOVE SPACE DESCRIBE FROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone.  ABOVE SPACE DESCRIBE FROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone.  ABOVE SPACE DESCRIBE FROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone.  ABOVE SPACE DESCRIBE FROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone.  ABOVE SPACE DESCRIBE FROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone.  APPROVAL DATE  TITLE OPERATIONS MANAGET  APPROVAL DATE  APPROVAL DATE  2. APPROVAL DAT	LOCATION TO NEARE PROPERTY OR LEASE	ST 33	0'	320	тот	40		
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- 8-5/8" csg: 650 sx Class C, 35/65 poz, 6% gel, 8#/sk salt, 1/4#/ck Flocele 200 sx Class C.  - 5-1/2" csg: 100 sx Class C, 35/65 poz, 6% gel, 280 sx Class C, 50 /50 poz 2% gel, 5#/sk salt, .5% Halad 322  PLEASE BE ADVISED THAT THERE WILL BE NO EXCAVATION OF FEDERALLY CALLED FOR CONSTRUCTION OF THE ACCUSS ROAD OR YAD WITHOUT PAYMENT, IN ADVANCE.  ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If populationally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.  BIGNED TITLE Operations Manager DATE 2-21-94  APPROVAL DATE  PERMIT NO. APPROVAL DATE	7-778	5-1/2, N-00	17# & 20#	11,400	lage n	e i ow	10000	
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(This space for Federal or State office use)  PERMIT NO	L	25/2	6				0.4	
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Application appropriat does not warrant or certify that the applicant holds level or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations the			<del></del>					
•••	••		oplicant holds legal or equitable t	title to those rights in the subject	lease which v	vould entitle the applicant to co	nduct operations thereon.	
CONDITIONS OF APPROVAL, IF ANY:	CONDITIONS OF APPROV	*		1				

Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

## State of New Mexico Energy, Minerals and Natural Resources Department;

Form C-102 Revised 1-1-89

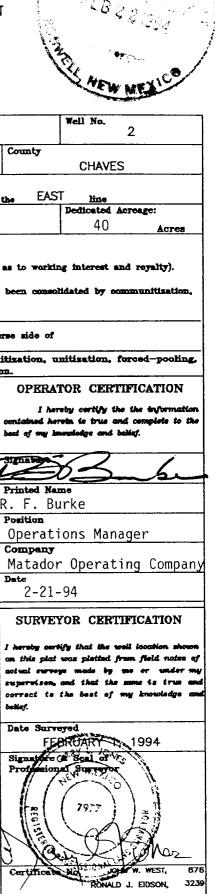
<u>DISTRICT I</u> P.O. Box 1980, Hobbs, NM 88240

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

DISTRICT II P.O. Drawer DD, Artonia, NM 88210

DISTRICT III

WELL LOCATION AND ACREAGE DEDICATION PLAT



000 Rio Brasce R	d., Astoc, NM 87410	All Distances (	must be from	the outer boundaries	s of the section	1		
perator	MATADOR OPE	RATING CO.	Lease	V.G. KINAHA	n federal		Well No.	2
nit Letter	Section	Township	Range			County	<b>4</b>	
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Yes	No No	If answer is "yes" t	ype of consol	idation				
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## APPLICATION FOR PERMIT TO DRILL MATADOR OPERATING CORPORATION V. G. Kinahan Federal #2 330' FSL, 2200' FEL Sec. 20-T15S-R30E 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.

- 1. The geologic surface formation is of Permian age.
- 2. Estimated tops of geologic markers are as follows:

Queen	+ 1,851'	Atoka	<u>- 5,919'</u>
Abo	- 2,459'	Devonian	<b>-</b> 6,969'
Wolfcamp	<b>- 3,719'</b>		

3. The estimated depths at which water, oil, or gas formation are expected to be encountered:

* - water: <u>150'</u>	- 300 <b>'</b>	
** - oil or gas:	Queen	2,130'
•	Wolfcamp	7,700'
	Devonian	10,950'

- \* Ground water to be protected by 13-3/8" surface casing with cement circulated to surface.
- \*\* Potentially productive horizons to be protected by \_\_\_\_\_\_\_\_ production casing with cement tied back to approximately \_\_\_\_\_\_\_\_ on bottom.
- 4. Proposed Casing Program: See form 3160-3 and Exhibit D.
- 5. Pressure Control Equipment: See Exhibit F.
- 6. Mud Program: See Exhibit E.
- 7. Auxiliary Equipment: <u>Upper Kelly Cock, Lower Kelly Cock, Full Opening Stabbing Valve, Flow Sensor, PVT.</u>
- 8. Testing, Logging, and Coring Programs
  - DST's: Possible in Devonian.
  - Logging: 1-man mud logging unit from 7,600' to TD.

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## APPLICATION FOR PERMIT TO DRILL MATADOR OPERATING CORPORATION V. G. Kinahan Federal #2 330' FSL, 2200' FEL Sec. 20-T15S-R30E CHAVES COUNTY, NEW MEXICO



- Electric Logs: Dual Induction Laterolog
Neutron Density Porosity Log
Gamma Ray/Caliper Log

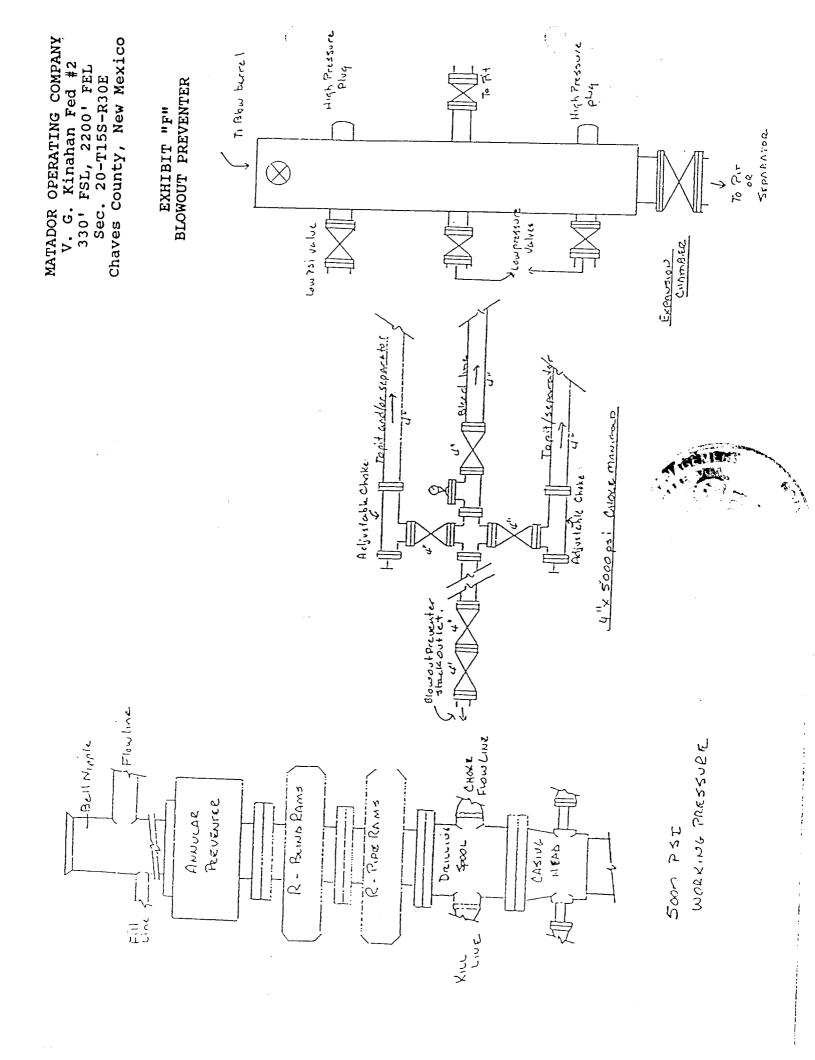
No coring is anticipated.

- 9. Abnormal Pressures, Temperatures, or other Hazards:
  - No abnormal pressures, temperatures or hazards are anticipated in the drilling of this well.
- 10. Anticipated Starting Date: ASAP.

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