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DISTRICT I P. O. Box 1980 Hobbs, NM 88241-1980

DISTRICT II P. O. Drawer DD Artesia, NM 88211-0719

DISTRICT III

1000 Rio Brazos Rd. Aztec, NM 87410

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

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Form C-102 Revised 02-10-94

Instructions on back

Submit to the Appropriate District Office State Lease — 4 copies Fee Lease — 3 copies

AMENDED REPORT

OIL CONSERVATION DIVISION P. 0. Box 2088 Santa Fe, New Mexico 87504-2088

DISTRICT IV P. O. Box 2088 Santa Fe. NM 87507-2088 WELL LOCATION AND ACREACE DEDICATION PLAT

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APPLICATION FOR PERMIT TO DRILL

MATADOR OPERATING CORPORATION LAGUNA DEEP UNIT FEDERAL #5 1980' FNL & 660' FWL SEC. 35, T19S, R33E LEA 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. <u>Geologic Name of Surface Formation:</u>

Permian

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2. Estimated Tops of Important Geological Markers:

	MD	Subsea
Upper Permian Yates	3161'	+ 445'
Upper Permian Seven Rivers	3378'	+ 228'
Lower Permian Delaware	5306'	-1700'
Lower Permian Bone Spring	8086'	-4480'
1st Bone Spring SS Mbr	9186'	-5580' +
2rd Bone Spring SS Mbr	9726'	-6120' +
3rd Bone Spring SS Mbr	10526'	-6920'
Lower Permian Wolfcamp Fm	10821'	-7215'
Lower Permian Wolfcamp "Chert"	10981'	-7375'
Upper Penn Cisco	11751'	-8145'
Upper Penn Canyon	11959'	-8353'
Upper Penn Strawn	12066'	-8460'
Lower Penn Atoka	12301'	-8695'
Lower Penn Atoka LS	12631'	-9025'
Lower Penn Morrow	12831'	-9225'
Middle Morrow Clastics	13031'	-9425' *
Lower Morrow	13396'	-9790' *
TD	13750'	
* = Premary Reservoir Targets		

+ = Secondary Reservoir Targets

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

Upper Permian Sands	0-300'	fresh water
1st Bone Spring SS Mbr	9186'	oil
2nd Bone Spring SS Mbr	9726'	oil
Middle Morrow Clastics	13,031'	gas
Lower Morrow	13,396'	gas

The ground water will be protected by setting 13-3/8" surface casing at 425' and circulating cement back to surface. The productive Morrow horizons will be protected by setting 5-1/2" production casing at TD with cement tied back to approximately 12000'. If Bone Spring or any other pay above the Morrow is productive, we will bring top of cement 500' above uppermost productive zone.

4. <u>Proposed Casing Program:</u>

<u>Hole Size</u>	Interval	Casing OD	Description
25"	0-40'	20"	Conductor
17-1/2"	0-4 25' 850	/ 13-3/8"	48#, H-40, ST&C, New, R-3
11"	0-5200'	8-5/8"	32#, J-55 & HCK-55, LT&C, New, R-3
7-7/8"	4000-1,200'	5-1/2"	17#, L-80 LT&C, New, R-3
7-7/8''	11,200-13,750'	5-1/2"	17#, S-95, LT&C, New, R-3

Proposed Cement Program:

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20" Conductor:	Ready-mix poured to surface.
13-3/8" Surface Casing:	Cemented to surface with 115 sx Permian Basin Filler Cement & 200 sx Class "C" +2% CaCl2 tail. Float equipment: Texas Pattern shoe with an insert float valve above the shoe joint and 2 centralizers. The shoe and first collar will be welded. One plug will be used to displace cement.
8-5/8" Intermediate Casing:	Set stage tool at ± 2500 '. Cement first stage with 400 sx Interfill "C" & 200 sx Class "C" +2% CaCl2 tail. Cement 2nd stage with 1400 sx Interfill "C" + 50 sx Class C + 2% CaCl2. Float equipment: Float shoe with a float collar 1 joint above the shoe joint and 12 centralizers. The shoe and float collar will be welded. One plug will be used to displace cement.
5-1/2" Production Casing:	Cement 1st Stage:- 550 sx Super Modified H w/ 0.4% CFR-3, 0.5% Halad 344, 1# salt & 5# Gilsonite. Cement 2nd Stage (If necessary) ±700 sx Interfill "H" w/ 5# gilsonite followed by 100 sx "H" neat.

5. <u>Pressure Control Equipment:</u>

The blowout preventer equipment (BOP) shown in Exhibits D & E 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 3" 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 choke manifold with 5000 psi WP rating which is shown in Exhibit F.

6. Proposed Mud System:

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

	Depth	Type	Weight (ppg)	Viscosity <u>(sec)</u>	Waterloss <u>(cc)</u>	<u>ph</u>
	0-425	Fresh Water	8.3-8.8	28-30	Not Critical	9-10
85	0 4 25 -5200'	Brine Water	8.8-10.2	28-30	Not Critical	9-10
•••	5200-12,900'	Cut Brine	8.5-9.0	28-30	Not Critical	9-10
	12,900-13,750	Polymer/Gel	9.0-9.8	30-32	<10	9-10

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 with H2S detector will be monitoring drilling penetration rate and hydrocarbon shows from 5200' to TD.

8. Drillstem Testing, Logging, and Coring Programs:

- Drillstem tests will be run based on shows encountered while drilling.
- No logs are planned for the 11" hole section. The electric logging program for the 7-7/8" hole sections will consist of GR-Dual Laterolog MLL-LSS and GR Compensated Neutron--LithoDensity from TD to intermediate casing. Selected sidewell cores and RFT's may be taken in zones of interest.
- No conventional coring is anticipated.

9. <u>Abnormal Conditions, Pressures, Temperatures, & Potential Hazards:</u>

No abnormal pressures and/or temperatures are anticipated. No hydrogen sulfide or other hazardous gases or fluids are known to exist in this area. Possible loss circulation zones are expected from 3400' to 4500'. Possible water flow at $\pm 2500'$.

10. Anticipated Starting Date and Duration of Operations:

The anticipated start date will be October 27, 1999. Once commenced, drilling operations should be completed in approximately 40 days. If the well is productive, another 30 days will be required for completion work and facility installation.

SURFACE USE PLAN MATADOR OPERATING COMPANY PIPELINE DEEP FEDERAL COM "5" #1 1980' FNL, 660' FWL Sec 35, T19S, R33E LEA 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 minutes 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 the start of construction.
 - A. Exhibit "A" shows the proposed exploratory well site as staked.
 - B. <u>Directions:</u> From Hobbs, travel West on Hwy 62 and go 0.4 miles past mile marker 76. Turn North on Smith Ranch Road and travel 2.7 miles. Turn Left at the first "Y" and then turn Left (SW) at intersection of three lease roads. Proceed down doublepole power line road for 1.0 mile and then turn Right and travel .50 miles until new location.
- 2. PLANNED ACCESS ROADS Existing lease roads with an extension of approximately 1320' of new road from existing road.

3. 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".
- E. Abandoned wells As shown on Exhibit "C".
- 4. 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.

5. LOCATION AND TYPE OF WATER SUPPLY

Water will be purchased locally from a private source and trucked over the access road or piped in flexible lines laid on top of the ground.

6. 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".

7. 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.

8. ANCILLARY FACILITIES

No camps or airstrips will be constructed.

9. WELL SITE LAYOUT

- A. Exhibit "B" 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 and the reserve pit is proposed to be unlined, unless subsurface conditions encountered during pit construction indicate that lining is needed for lateral containment of fluids.
- D. If needed, 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.

10. 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 levelled 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 circumstances to prevent inundation of the location pad and surface facilities. After the area has 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.

11. OTHER INFORMATION

- A. The area around the wellsite is flat and covered with various grasses.
- B. The surface use is grazing and the owner is Ken Smith, Inc., P. O. Box 764, Carlsbad, NM 88221.
- C. An archaeological study has been conducted for the location and road. The report will be submitted under separate cover.
- D. There are no buildings in the area.

12. OPERATOR'S REPRESENTATIVE

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

Before, during, and after construction: John W. Bell 8340 Meadow Road #158 Dallas, TX 75231 Office: 214-987-7144 Res: 972-818-8778 Mobile: 214-507-0985

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: <u>John W. Bell</u>

John W. Bell Drilling Manager

Date: 9.24.99

VICINITY MAP





EXHIBIT "B"

WELLSITE PLAN

Matador Operating Company Laguna Deep Unit Federal #5 1980 FNL & 660 FWL Sec 35, T29S, R33E Lea County, New Mexico





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EXHIBIT D

MINIMUM BLOWOUT PREVENTER REQUIREMEN

5,000 psl Working Pressure

5 MWP

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4	Annular preventer			
5	Two single or one dual hydra operated rams	ulically		
64	Drilling spool with 2° min. kill 3° min choka line outlats	line and		
60	2° min. kill line and 3° min. c outlets in ram. (Alternate to 8	or hoke line a above.)		
7		Gate 🗋 🔆 Plug 🗋	3-1/8*	
4	Gate valve-power operated		3-1/8"	·
9	Line to choke manifold	•		34
10	A 41A42	Gate D Plug D	2-1/16*	
11	Check valve		2-1/16*	
12	Casing head			
13]	Gate () Plug ()	1-13/18*	
14	Pressure gauge with needle v	alve	[]	
15	Kill line to rig mud pump man			2-

OPTIONAL 16 Flanged valve 1-13/16"

CONTRACTOR'S OPTION TO FURNISH:

- 1.All equipment and connections above bradenhead or casinghead, Working pressure of preventers to be 5,000 psl, minimum.
- 2. Automatic accumulator (80 gallon, minimum) capable of closing BOP in 30 seconds or jess and, holding them closed against full rated working pressure.
- 3.BOP controls, to be located near drillers position.
- 4.Kally aquipped with Kally cock.
- 5. Inside blowout prevventer or its equivalent on derrick floor at all limes with proper threads to fit pipe being used,
- 6.Kally saver-sub equipped with nubber casing protector at all times.
- 7.Plug type blowout preventer teater. #.Extra set pipe rams to fit drill pipe in use
- on location at all limes. 8.Type RX ring gaskets in place of Type R.

MEC TO FURNISH:

1.Bradenhoad or casinghoad and side valves.

GENERAL HOTES:

- 1.Deviations from this drawing may be made only with the express permission of MEC's Drilling Manager.
- 2.Al connections, valves, finings, piping, etc., subject to well or pump pressure must be fianged (suitable clamp connections acceptable) and have minimum working pressure equal to rated working pressure of preventers up through chore. Valves must be full opening and suitable for high pressure mud service.
- 3.Controls to be of standard design and each marked, showing opening and closing position.
- 4. Chokes will be positioned so as not to hamper or delay changing of choke beans. Replaceshie parts for activistable choke, other bean sizes, retainers, and choke wrenches to be conveniently located for immediate use.
- 5, All valves to be equipped with handwheels or handles ready for immediate use.
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Blowout Preventer Requirements

Matador Operating Company Laguna Deep Unit Federal #5 1980 FNL & 660 FWL Sec 35, T29S, R33E Lea County, New Mexico

CONFIGURATION A



- 7. Handwheels and extensions to be connected and ready for use.
- Valves adjacent to drilling spool to be kept open. Use outside valves except for emergency.
- All seemless steel control piping (5000 psi working pressure) to have the tible joints to avoid stress. Hoses will be permitted.
- Casinghead connections shall not be used except in case of emergency.
 Do not use kill line for routine fill-up operations.



Matador Operating Company Laguna Deep Unit Federal #5 1980 FNL & 660 FWL Sec 35, T29S, R33E Lea County, New Mexico



			MINII	JUN REOL	AEHENTS	3				
	3.000 MWP				,	5,000 MWP			10,000 LIWI	2
No.		1.D.	HOMINAL	RATING	LD.	HOMINAL	ALTING	LD,	NOLIHUL	RATING
1	Line from drilling speed		• 3*	1,000		3.	5.000		3.	10,000
2	Cross 3"x3"x3"x2"			3,000			5,000		1	
	Cross 3"x3"x3"x3"									10,000
ġ	Valves(1) Gate D Plug D(2)	3-3/8*		3,000	3-1/8*		5,000	3-1/8*		10,000
• 4	Valve Gate C Plug C(2)	1-12/18"		3,000	1-13/18*		\$,000	1-13/14*		10,000
44	Valves(1)	2-1/14"		1,000	2-1/16*	·	5,000	3-1/8"	1	10,000
5	Pressure Gauge	·		3,000	•		5.000			10,000
4	Gate C Valves Plug D(2)	3-1/8*		3,000	3-1/8*		\$,000	3-1/8"		10,000
. 7	Adjustable Choke(3)	2*		1,000	2*	ŀ	5,000	2-	1	10,000
1	Adjustable Choka	1*		1,000	1* .		5,000	5.		10,000
9	Line		3-	3,000		34	1.000		3.	10,000
10	Line		24	1,000		2"	5,000		· 3•	10,000
11	Valves Gata () Plug ()(2)	3-1/6-		3,000	3-1/8-	·	5,000	3-1/8-		10,000
12	Lines		3-	1,000		-t	1,000		31	2,000
13	Lines		3*	1,000		3-	1,000		3-	2,000
14	Remote reading compound standpipe pressure gauge			3.000	. •		5,000			10,000
15	Gas Separator	•	2'25' ·	· · ·		2'x5'			2'25'	
16	Line		4*	1,000		4*	1,000		4.	2.000
17	Valves Gate 0 Plug 0(2)	3-1/8*		2,000	3-1/8*		5,000	3-1/8*		10,000

(7) Only one required in Class 314.

(2) Gate velves only shat be used for Class 1014.

(3) Remote operated hydraulic choice required on \$,000 psl and 10,000 psl for drilling.

EQUIPMENT SPECIFICATIONS AND INSTALLATION INSTRUCTIONS

- 1. All connections in choke manifold shall be welded, studded, llanged or Cameron clamp of comparable rating.
- 2. All flanges shall be API 58 or 68X and ring gaskets shall be API RX or 8X. Use only 8X for 10 MWP.
- J. Al lines shall be securely anchored.
- 4: Chokaz zhall be equipped with lungeton carbide soals and needles, and replacements shall be available.
- 5. Choke manifold pressure and standpipe pressure gauges shall be available at the choke manifold to assist in regulating chokes. As an alternate with automatic chokes, a choke manifold pressure gauge shall be located on the rig floor in conjunction with the standpipe pressure gauge.
 - Line from drilling spool to choke manifold should be as straight as possible. Lines downstream from chokes shall make turns by large bends or 90° bends using buil plugged tees.
 - 7 Discharge lines from chokes, choke bypass and from top of gas separator should vent as far as practical from the well,

		WELL PLAN	OUTLINE	_					
Well Name:	Laguna Deep Unit Federal #5			County:	Lea		State:	NM	
Location:	1980 FNL & 770 FWL			Est KB:			TD:	13,750	
	Sec 35, T19S, R33E		·····	GL:	3586'				
			Type of				Form	(ppg)	
	Formation	Drilling	Formation	Hole	Casing	Frac	Press	Mud Wt	
Depth	Тор & Туре	Problems	Evaluation	Size	Size-Depth	Grad	Grad	& Type	Days
	Sand & Red Bed @ 300'		0-300' Dev. survey <1deg	17-1/2"	13-3/8" 48# H-40 @ 425' w/ cmt to surface			8.3-8.8 Fresh wtr	
			Dev. Survey < Ideg		425 w/ clife to surface			Presir wu	1
1000]		500' surveys to TD						
								1	
	Anhydrite/Salt								
2000	1							8.8-10.2	
	5			11"				Brine water	
	-	Possible							
3000	-	wtr flow							
3000	Up Perm Yates 3161 (+445)								
	Up Perm 7 Rvs 3378 (+228)								
4000	4		Logging unit 5200' to TD						
			10200 10 10		8-5/8" 32# J-55 &				
					HCK-55 @ 5200				
5000	-				w/ cmt to surf				10
	L Perm Dela 5306 (-1700)				4				1
	, í								
6000	_							8.5-9.0	
	-							Cut Brine	
}	-			7-7/8"					
7000									
	-								
	-								
8000	L Perm BS 8086 (-4480)		Maximum deviation						
	_		5 degrees						
	4								
9000	-						1		
	1st BS SS Mbr 9186 (-5580)								20
	2nd BS SS Mbr 9726 (-6120)							1	
10000	2110 05 53 14101 9720 (-0120)							1	
	3rd BS SS Mbr 10526 (-6920)								
	L Perm Wfcp 10821 (-7215)								
11000	LPerm Wf Cht 10981 (-7375)								
	-								
	Up Penn Cisco 11751 (-8145)				5-1/2" 17# L-80				30
12000	Up Penn Cyn 11959 (-8353) Up Penn Strn 12066 (-8460)				& S-95 @ 13,750 w/ cmt to 9,000'				
12000	L Penn Atk 12301 (-8695)								
	L Penn At LS 12631 (-9025)								
12000	L Penn Mrw 12831 (-9225)						Ì	9.0-9.8	-
13000	Mid Mrw Clas 13031 (-9425) L Morrow 13396 (-9790)							Polymer-Gel	40
							1	WL<10	_
	TD 13750								
14000	-{								
	1								

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Matador Operating Company Laguna Deep Unit Fed #5 1980 FNL & 660 FWL Sec 35, T19S, R33E Lea County, New Mexico

From Hobbs, travel West on Hwy 62 and go 0.4 miles past mile market 76. Turn North on Smith Ranch road and travel 2.7 miles. Turn Left at the first "Y" and then turn Left (SW) at intersection of three lease roads. Proceed down double-pole power line road for 1.0 mile and then turn Right and travel .50 miles to new location.

United States Department of the Interior

BUREAU OF LAND MANAGEMENT Roswell Office 2909 West Second Street Roswell, New Mexico 88201

Statement Accepting Responsibility for Operations

Operator name:	Matador Operating Company
Street or box:	8340 Meadow Road, #158
City, State:	Dallas, TX
Zip code:	75231

The undersigned accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on the leased land or portion thereof, as described below:

All in Section 35, T19S, R33E, Eddy County, New Mexico

Lease No.:	NM27572
Legal Description of Land:	S/2 Section 35
Lease No.:	NM27573
Legal Description of Land:	NW of NE/4 and N/2 NW Section 35
Lease No.:	NM9824
Legal Description of Land:	S/2 NW/4, S/2 NE/4, NE of NE/4 Section 35

Formation(s) (if applicable):

Bond Coverage: (State if individually bonded or another's bond) Statewide

BLM Bond File No.: 29403

Authorized Signature: R. F. Burke

Title:

Vice President

Date:

VIELDE DATE DOES NOT INDICATE WHEN CONFIDENTIAL LOGS MILL BE RELEASED ELI: 81 nor

La Carlos de Car