Form 3160-3 (July 1992)

APPROVED BY

SUBMIT IN TRIPLICATE (Other Instructions on reverse side)

FORM APPROVED OMB NO. 1004-0136 Expires: February 28, 1995

DEPARTMENT OF THE INTERIOR

APPLICATION FOR PERMIT TO DRILL OR DEEPEN 18. TIPE OF WELL 18. TIPE OF WELL 18. TIPE OF WELL 19. TIPE OF WELL 29. T	DEPARTMENT OF THE	5. LEASE DESIGNATION AND SERIAL NO.				
DEPEN DEPEN	BUREAU OF LAND MANAGEMENT					
DRILL STREET WILL OTHER OF WELL OTHER OF OTHER SINGLE IS ONE ERRON 041 & Gas Company 10. Accesses on the processor P. O. Box 2267, Midland, Texas 79702 10. FIELD AND FOOL, OR WILLOW, The STREET AND STREET OF THE STREET AND S	APPLICATION FOR PERMIT T	O DRIL	L OR DEEPEN		6. IF INDIAN, ALLOTTE	OR TRIBE NAME
OFFICE OF OFFICE OFFICE OF OFFICE O	DRILL 🛛 DEEPE	И			7. UNIT AGREEMENT N	AMB
ENTO OIL & Gas Company 1. Additional Control of the Control of Co	017 [7]			PLE	8. FARM OR LEASE NAME, WE	ш.но. #3
10. PRILES AND PROCESSOR TO MALL (Report location clearly and in accordance with any State requirements.) 11. COLUMN OF WALL (Report location clearly and in accordance with any State requirements.) 12. COLUMN OF WALL (Report location clearly and in accordance with any State requirements.) 13. OF INT. & 2240 FWL. 14. Intervalve IN MILES AND DIRECTION FROM NEAREST TOWN OR FORT OFFICE. 15. Same Sec. 30, T23S, R32E Sec. 30, T23S, R32E 12. COLUMN TO PRILE IN INC. TO A PARTIE IN					Tresnor-Mitch	
P. O. Box 2267, Midland, Texas 79702 1. DOLTRO OF WELL (Report location clearly and in accordance with any State requirements.) At 80 states. At 10 states. Samb Dunes Bone Spring 11see. At proposed profit some. Samb Source of the States of the Stat					9. API WELL NO.	
LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) 330' FNI, 5 2240' FWL Same 4. DISTANCE IN MILES AND DISACTION FROM NEAREST TOWN OR POST OFFICE. 35 miles NW from Ja1 5. DISTANCE IN MILES AND DISACTION FROM NEAREST TOWN OR POST OFFICE. 36. DISTANCE IN LEASE INER, 175, 1300 5. DISTANCE IN LEASE INER, 175, 1300 6. DISTANCE IN LEASE		9702			10. FIELD AND POOL, O	B WILDCAT
At proposed good, some At proposed good, some Sci 30, T235, R32E 10. INTRACE RISK MILES AND DIRECTION FROM NEAREST TOWN OR FORT OFFICE* 35 miles NW from Jal 10. DIRECTION TO NEAREST TOWN OR FORT OFFICE* 11. NO. OF ACRES IN LEASE 12. COUNTY OR FASISH ID. 13. GREAT SCI INCLUDE AND PROPOSED CONCERNING. TO STATE SCIENCE ASSIGNED TO THE PROPOSED CONCERNING TO THE PROPOSED CONCERNING. CONVEXED TO THE PROPOSED CONCERNING. CONVEXED TO THE PROPOSED CONCERNING. CONVEXED TO THE PROPOSED CONCERNING TO THE PROPOSED	LOCATION OF WELL (Report location clearly and in accordance	e with any S	State requirements.*)		Sand Dunes Bone Spring S	
Same 4. Distance in Miles AND Dissection from years from 08 Post office. 12. COUNTY OR Tables 13. State 4. Distance in Miles AND Dissection from New Years from 08 Post office. 13. Since in Miles AND Dissection from years from 08 Post office. 14. Distance in Miles AND Dissection from New Years from 08 Post office. 15. Distance in Miles AND Dissection from New Years from 13. No. of ACRES IN Lease 17. No. of ACRES ASSIGNED TO This Wall. IN. AND OF ACRES ASSIGNED TO This Wall. It was not a consistent of the control of the					11. SEC., T., B., M., OR BLK.	
4. DISTANCE IN MILES AND DIRECTION FROM NABREST TOWN OR FORT OFFICE: 3.5 miles NW from Jal 5. DISTANCE FROM PROPORED: 6. PROPOSED FROM PROPORED: 7. PROPOSED CASING AND CEMERATION OF ACRES ASSIGNED 8. DISTANCE FROM PROPOSED ECCENTRY 8. DISTANCE FROM PROPOSED ECCENTRY 1. PROPOSED CASING AND CEMERATING PROGRAM 8. DISTANCE FROM PROPOSED ECCENTRY 1. ELEVATIONS (Show whether DF, RT, GR, etc.) 3. PROPOSED CASING AND CEMERATING PROGRAM 8. DISTANCE FROM PROPOSED FROM PROPOSED FROM THE FOOT SETTING DEPTH OUNTIFY OF CEMERATION 1. ELEVATIONS (Show whether DF, RT, GR, etc.) 3. PROPOSED CASING AND CEMERATING PROGRAM 8. DISTANCE FROM PROPOSED FROM THE FOOT SETTING DEPTH OUNTIFY OF CEMERATION 1. PROPOSED CASING AND CEMERATING PROGRAM 8. DISTANCE FROM PROPOSED FROM THE FOOT SETTING DEPTH OUNTIFY OF CEMERATION 1. PROPOSED CASING AND CEMERATING PROGRAM 8. DISTANCE FROM PROPOSED FROM WHILL ST. 1. REPUTATIONS (Show whether DF, RT, GR, etc.) 3. PROPOSED CASING AND CEMERATING PROGRAM 9. PROPOSED CASING AND CEMERATING PROGRAM 1. PROPOSED CASING AND CEMERATING PROGRAM 1. PROPOSED CASING AND CEMERATING PROGRAM 9. PROPOSED CASING AND CEMERATING PROGRAM 1. PROPOSED CASING AND CEMERATING PROGRAM 1. PROPOSED CASING AND CEMERATING PROGRAM 1. PROPOSED CEMERATION P	At proposed prod. zone	1	77			
35 miles NW from Jal 5. DISTANCE FROM PROPOSED* 10. NO. OF ACRES IN LEASE 17. NO. OF ACRES AND LEASE 18. NO. OF ACRES AND LEASE 18. NO. OF ACRES AND LEASE 19. NO. 20. NO. OF ACRES AND LEASE 19. NO. 20. ACRES AND LEASE 19. NO. OF ACRES AND LEASE 19. NO. 21. ACRES AND LEASE 19. NO. OF ACRES AND LEASE 19. NO. 22. APPROVAL SUBJECT TO ACRES AND LEASE 19. NO. OF ACRES AND LEASE 19. NO. 22. APPROVAL SUBJECT TO ACRES AND LEASE 19. NO. OF ACRES AND LEASE 19. NO. 22. ACRES AND LEASE 19. NO. OF ACRES AND LEASE 19. NO. OF ACRES AND L		POST OFFIC	F.			
DISTANCE FOOD RECOVERED. LOCATION TO NEAREST 330 PROPERTY ON LEASE LENG. FT. 330 ADMINISTRATE PROPERTY OF CREEKER THE LENG. FT. 1981 to #2 BERLEY WELL. DRILLING. COMPLETED. ON AFFELDROW NO TRIBE LEASE, FT. 1981 to #2 BERLEY OF HOLE SIZE OF HOLE GRADE, SIZE OF CASING SIZE OF HOLE GRADE, SIZE OF CASING WEIGHT PER FOOT SETTING BEPTH 17-1/2 13-3/8 H-40 A ST&C 42 45-50 T-7/8 5-1/2 N-80 LT&C 17# Berley Grade accepts all applicable terms, conditions, and restrictions concerning operations conducted on tasked, and or portions thereof as shown below: NM 14157 Sec 30, T23S, R32E Bone Spring Formation Federal Bond # MT0748 with endorsement to New Mexico. PROPOSED FROORAM: If proposal is to deepen give data on present productive zone and proposed new presuccepts and		2001 01110	-		_	
SIDENTAL PROPOSED LINE, FR. 330 (Alio to nearest drig unit line, if any) 330 (Alio to nearest drig unit line, if any) 330 (Alio to nearest drig unit line, if any) 330 (Alio to nearest drig unit line, if any) 360 (Alio to nearest drig unit line, if any) 360 (Alio to nearest drig unit line, if any) 360 (Alio to nearest drig unit line, if any) 360 (Alio to nearest drig unit line, if any) 360 (Alio to nearest drig unit line, if any) 360 (Alio to nearest drig unit line, if any) 360 (Alio to nearest drig unit line, if any) 360 (Alio to nearest drig unit line, if any) 360 (Alio to nearest drig unit line, if any) 360 (Alio to nearest drig unit line, if any) 360 (Alio to nearest drig unit line, if any) 360 (Alio to nearest drig unit line, if any) 360 (Alio to nearest drig unit line, if any) 360 (Alio to nearest drig unit line, if any) 360 (Alio to nearest work and in the second line, if any) 360 (Alio to nearest work and in the second line) 360 (Alio to nearest work and in the second line) 360 (Alio to nearest work and in the second line) 360 (Alio to nearest work and in the second line) 360 (Alio to nearest work and in the second line) 360 (Alio to nearest work and in the second line) 360 (Alio to nearest with would embed such and incavard and true vertical depths. Give blowout preventor program, if any) 360 (Alio to nearest true) 360 (Alio	5. DISTANCE FROM PROPUSED*	16. NO). OF ACRES IN LEASE		OF ACRES ASSIGNED	1 1111
S. DISTANCE FROM PROPOSED LOCATION* TO NEARS WHILL DELIAND, COMPLETED ON APPENDING, ON THIS LAND, CR. 1981 to #2 8900 ROTATIVE 10. BY THIS LAND, COMPLETED 3625' GR ROTATIVE TOR, ON THIS LAND, COMPLETED 3625' GR ROTATIVE OF CABLE TOOLS ROTATIVE OR THIS LAND, CARLES ROTATIVE OF CABLE TOOLS ROTATIVE OR THIS LAND, CARLES ROTATIVE OF CABLE TOOLS ROTATI	PROPERTY OR LEASE LINE, FT. 330		640	1	HIS WELL	
ON APPLIED FOR, ON THIS LEASE, FT. 1981 to #2 8900 ROLLY 3625' GR PROPOSED CASING AND CEMENTING PROGRAM SIZE OF NOLE GAME, SIZE OF ACID. PROPOSED CASING AND CEMENTING PROGRAM 17-1/2 13-3/8 H-40 A STEC 42 650 725 sx STRCULATED 7-7/8 5-1/2 N-80 LT4C 17+ 8900 300 sx est TOC @ 3500' The undersigned accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on transact and or portions thereof as shown below: NM 14157 Sec 30, T23S, R32E Bone Spring Formation Federal Bond # MT0748 with endorsement to New Mexico. NABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new permitted and the vertical depths. Give blowout preventer program, if any. ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new permitted and the vertical depths. Give blowout preventer program, if any. ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new permitted and the vertical depths. Give blowout preventer program, if any. APPROVAL DATE APPROVAL SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new permitted and the vertical depths. Give blowout preventer program, if any. BELLY GILdon APPROVAL DATE APPROVAL DATE GENERAL REQUIREMENTA Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would enable the s	8. DISTANCE FROM PROPOSED LOCATION®	19. PI			RY OR CABLE TOOLS	
1. ELEVATIONS (Show whether DF, RT, GR, etc.) 3625' GR PROPOSED CASING AND CEMENTING PROGRAM SIZE OF HOLE GRADE SIZEOFCASING WEIGHT FER FOOT SETTING DEFTH QUANTITY OF CEMENT 17–1/2 13–3/8 H–40 A ST&C 42 650 27.5 sx CIRCULATED 7–7/8 5–1/2 N–80 LT&C 17# 8900 300 sx est TOC @ 3500' The undersigned accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on teased and or portions thereof as shown below: NM 14157 Sec 30, T23S, R32E Bone Spring Formation Federal Bond # MT0748 with endorsement to New Mexico. ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new	or applied for, on this lease, ft. 1981 to $#2$	<u> </u>	8900	R	Rotary	
SIZE OF HOLE SIZE OF HOLE GRADE SIZE OF CASHO SIZE OF HOLE GRADE SIZE OF CASHO 17-1/2 13-3/8 H-40 A STAC 42 650 275 SX CIRCULATED 11					22. APPROX. DATE WO	RK WILL START*
SIZE OF HOLE GALDE SIZEOFCASING WEIGHT PER FOOT SETTING DEPTH QUANTITY OF CEMENT					March 1995	
17-1/2 13-3/8 H-40 A ST&C 42 650 275 SX CIRCULATED 11 8-5/8 J-55 LTSC 32 4600 725 SX CIRCULATED 7-7/8 5-1/2 N-80 LTSC 17# 8900 300 SX est TOC @ 3500' The undersigned accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on teased land or portions thereof as shown below: NM 14157 Sec 30, T23S, R32E Bone Spring Formation Federal Bond # MT0748 with endorsement to New Mexico. ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new p	PROPOSED (CASING ANI	CEMENTING PROGRA	M		
The undersigned accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on teased, and or portions thereof as shown below: NM 14157 Sec 30, T238, R32E Bone Spring Formation Federal Bond # MT0748 with endorsement to New Mexico. ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new primary is to deepen directionally, give perinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any. APPROVAL DATE APPROVAL SUBJECT 107 APPROVAL DATE APPROVAL SUBJECT 107 APPROVAL DATE APPROVAL SUBJECT 107 GENERAL REQUIREMENT. APPROVAL DATE APPROVAL SUBJECT 107 GENERAL REQUIREMENT.	SIZE OF HOLE GRADE SIZE OF CASING WEIGHT P	ER FOOT	SETTING DEPTH	-		
The undersigned accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on teason, land or portions thereof as shown below: NM 14157 Sec 30, T23S, R32E Bone Spring Formation Federal Bond # MT0748 with endorsement to New Mexico. ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone and productive zone and productive zone and productive zone and productive zone a				1		
The undersigned accepts all applicaple terms, conditions, stipulations, and restrictions concerning operations conducted on teased land or portions thereof as shown below: NM 14157 Sec 30, T23S, R32E Bone Spring Formation Federal Bond # MT0748 with endorsement to New Mexico. PEB - 1895 RABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new perfuce to zone and zone zone zone zone zone zone zone zone						
(This space for Federal or State office use) PERMIT NO. Approval DATE Approval DATE Approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entire the subject lease which was the subject lease which was the subject lease wh	restrictions concerning opreration thereof as shown below: NM 14157 Sec 30, T23S, R32E Bone Spring Formation Federal Bond # MT0748 with endorsement to New Mexico.	ons cond	FEB -	4 1995 3 1995	or portions 23272 2082 20102	125- 32891
Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entire ECIAL CATALONS OF	SIGNED BUTTER SIGNED BELLY GILDON	TITLE	Regulatory Anal	programa	DATE 2/2/9 APPROVAL SUE	DECT 10 \
				ace which	-	
		or equitable titi	ie to those rights in the subject l	ese which wo		en european rueceo



District I PO Box 1980, Hobbs, NM 88241-1980 District II PO Drawer DD, Artesia, NM 88211-0719 District III 1000 Rio Brazos Rd., Axteo, NM 87410 District IV PO Box 2088, Santa Fe, NM 87504-2088 State of New Mexico
Energy, Minerals & Natural Resources Depare .t

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088 Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office

to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT ¹API Number ² Pool Code 53805 125-3284 Sand Dunes Bone Spring, South Property Code ⁵ Property Name Well Number TRESNOR MITCHELL "30" FEDERAL 3 15772 OGRID No. ⁸Operator Name ⁹ Elevation ENRON OIL AND GAS COMPANY 7377 3625 ¹⁰Surface Location UL or lot no. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County С 30 23-S 32-E 330 NORTH 2240 WEST LEA Bottom Hole Location If Different From Surface UL or lot no. Section Lot Idn Feet from the North/South line Feet from the East/West line County ¹²Dedicated Acres ¹³Joint or Infill ¹⁴Consolidation Code ¹⁸Order No. 40 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 16 ¹⁷ OPERATOR CERTIFICATION 2240' I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Betty Gildon Printed Name Regulatory Analyst SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to best of my belief. Date of Survey Signature and Seal Monal Surveyor: Certificate Number 8278

DRILLING PROGRAM

Enron Oil & Gas Company
Tresnor-Mitchell 30 Federal No. 3
330' FNL & 2240' FWL
Sec. 30, T23S, R32E
Lea County, New Mexico

1. Geologic Name of Surface Formation:

Permian

2. Estimated Tops of Important Geologic Markers:

Rustler	1020'
Delaware	4660'
Bell Canyon	4690'
Cherry Canyon	5745'
Bone Spring	8520'

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

Delaware 4660' Bone Spring 8520'

No other formations are expected to give up oil, gas or fresh water in measurable quantities. The surface fresh water sands will be protected by setting 11-3/4" casing at 650' and circulating cement back to surface, and 8-5/8" casing will be set at 4600' with cement circulating back to surface.

Enron Oil & Gas Company
Tresnor-Mitchell 30 Federal No. 3
330' FNL & 2240' FWL
Sec. 30, T23S, R32E
Lea County, New Mexico

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

<u> Hole Size</u>	<u> Interval</u>	OD csq	Weight Grade Jt. Cond. Type
17-1/2	0- 650'	13-5/8	42# H-40 A ST&C
11	0- 4600'	8-5/8	32# J-55 LT&C
7-7/8	0- 8900'	5-1/2	17# J-55 LT&C

Cementing Program:

11-3/4" Surface casing: Cement to surface with 275 sx of Class C

+ 2% CaCl2 + 1/4#/sx flocele.

8-5/8" Intermediate: Cement to surface with 425 sx of Premium Plus

lite + 15#/sx salt + 1/4#/sx Flocele and 300 sx

Cl C + 2% CaCl2

5-1/2" Production: Cement with 350 sx 50/50 Cl H/Poz + 0.8% Halad 9 +

1/4#/sx Flocele. This cement slurry is designed to

bring TOC to 3500.

5. Minimum Specifications for Pressure Control:

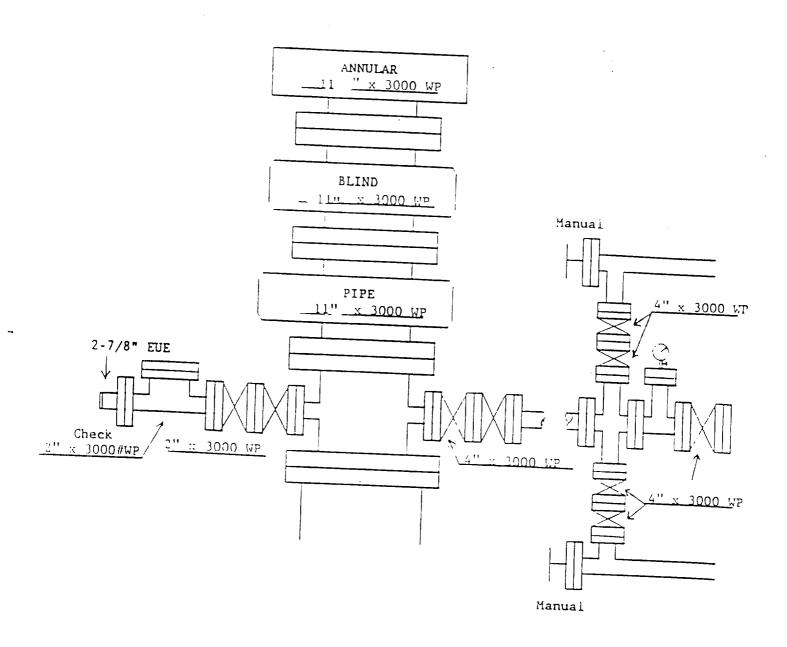
The blowout preventer equipment (BOP) shown in Exhibit #1 will consist of a double ram-type (3000 psi WP) preventer and an annular preventer (3000 psi WP). Units will be hydraulically operated and the ram-type will be equipped with blind rams on top and drill pipe rams on bottom. All will be installed on the 11-3/4" 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 3000 psi and the annular 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 choke manifold with 3000 psi WP rating.

ENRON OIL & GAS COMPANY

Tresnor-Mitchell 30 Federal #3

ATTACHMENT



CANGE S

Enron Oil & Gas Company
Tresnor-Mitchell 30 Federal No. 3
330' FNL & 2240' FWL
Sec. 30, T23S, R32E
Lea County, New Mexico

6. Types and Characteristics of the Proposed Mud System:

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

		Weight	Viscosity	Waterloss
<u>Depth</u>	Type	<u>(pqq)</u>	(sec)	(cc)
0-600'	Fresh water (spud)	8.5	40-45	N.C.
600'-4600'	Brine water	10.0	30	N.C.
4600-TD	Cut Brine	8.8-9.2	28	N.C.

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 Well Control and Monitoring Equipment:

- (A) A kelly cock will be kept in the drill string at all times.
- (B) A full opening drill pipe stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.
- (C) A mud logging unit complete with H2S detector will be continuously monitoring drilling penetration rate and hydrocarbon shows from 4000' to TD.



Enron Oil & Gas Company
Tresnor-Mitchell 30 Federal No. 3
330' FNL & 2240' FWL
Sec. 30, T23S, R32E
Lea County, New Mexico

8. Logging, Testing and Coring Program:

- (A) The electric logging program will consist of GR-Dual Laterolog-MSFL and GR-Compensated Density-Neutron from TD to intermediate casing with a GR-Compensated Neutron ran from intermediate casing to surface.
- (B) Possible side wall cores based on shows.

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

No abnormal pressures or temperatures are anticipated. No hydrogen sulfide or other hazardous gases or fluids have been encountered, reported or are known to exist at this depth in this area. No major loss circulation zones have been reported in offsetting wells.

Anticipated Starting Date and Duration of Operations:

Road and location work will not begin until approval has been received from the BLM. Anticipated spud date is unknown at the present time. Once drilling has commenced, the drilling operation should be finished in approximately 45 days. If the well is productive, an additional 30 to 45 days will be required for completion and testing before a decision is made to install permanent facilities.