(November 1983) (formerly 9-331C)	DEPARTMENT	UNITED STATES TMENT OF THE INTERIOR EAU OF LAND MANAGEMENT			Budget Bureau No. 1004-0136 Expires August 31, 1985 5. LEASE DESIGNATION AND SEBIAL NO. NM-29234	
APPLICATION	N FOR PERMIT 1	O DRILL, DEEP	EN, OR PLUG B	ACK	6. IF INDIAN, ALLOTTER OR TRIBE NAME	
LA. TYPE OF WORK DRI b. TYPE OF WELL		DEEPEN	PLUG BAG		7. UNIT AGREEMENT NAME	
	ELL CTHER		INGLE MULTIP ONE ZONE		6. FARM OR LEASE NAME Lotos Federal	
Be . Address of Operator	ttis, Boyle & S	tovall			9. WELL NO. 1	
	0. Box 1240, Gr eport location clearly and				10. FIELD AND POOL, OF WILDCAT UND. 5. SAND DUNES LOWER PENN.	
1980' At proposed prod. zon Same	FSL & 1980' FEL •	, NW/4SE/4, Uni	t letter J		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	
	AND DIRECTION FROM NEAR				Sec. 9, T24S, R31E 2. COUNTY OR PARISH 13. STATE	
5. DISTANCE FROM PROPU			) O. OF ACEES IN LEASE		Eddy N.M.	
LOCATION TO NEAREST PROPERTY OR LEASE L (Also to bearest drig S. DISTANCE FROM PROPE	INE, FT. 2. Unit line, if any) DSED LOCATION®	1980' 19. ri	1280 Roposed depth	TO THIE 20. ROTARY	S WELL <u>320</u> OR CABLE TOOLS	
TO NEAREST WELL, DE OR APPLIED FOR, ON THI	S LEASE, FT.	N/A	15,100'		Rotary	
1. ELEVATIONS (Show whe	457.3' GR				22. APPROX. DATE WORK WILL START* ASAP	
3.		ROPOSED CASING ANI	D CEMENTING PROGRA	M		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMENT	
26"	20"	94.00#	6601		0 sx(Circulate)	
<u> </u>	<u> </u>	<u>68 &amp; 72#</u> 47 & 53.50#	4,270'		<u>0 sx(Circulate)</u> 0 sx	
8 1/2"	7 5/8"	39.00#	11,500-13,850'		0 sx	
6 1/2"	5 1/2"	23.00#	13,650-15,100'	22	5 sx	
roduction of get ttachments: B C Pe C S S S S S D D	as.	lata Lling data operation plan to location	ation and test :	REC.	ible commercial ND 0 1988 G N.M. $Post i D^{#}$ APT + N 9-9-8	
N ABOVE SPACE DESCRIBE one. If proposal is to d reventer program, if any 4. SIGNED	Irill or deepen directional				the sone and proposed new productive nd true vertical depths. Give blowout DATE <u>August 27, 1988</u>	
(This space for Feder	al or State office use)		APPROVAL DATE			
PERMIT NO.						

# \*See Instructions On Reverse Side

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NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

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## Pertinent Lease Data

Bettis, Boyle & Stovall Lotos Federal No. 1 1980' FSL & 1980' FEL Sec. 9, T24S, R31E Eddy County, N.M.

Located: 16 1/2 air miles east of Malaga, New Mexico

Lease Number: NM-29234

Lease Issued: January 1, 1977(Lease extended two years by the drilling of Bran Oil Corporation's Bran-Bettis Fed. No. 1, 660' FSL & 660' FEL, Sec. 11, T24S, R31E)

Record Lessee: Bettis Brothers, Inc. (100% effective 12-1-86)

Bond Coverage: Operator's \$25,000 Statewide Oil and Gas Bond

Acres in Lease: 1280

Surface Ownership: Federal

Grazing Permitee: Snyder Ranches, Ltd.

Pool: Undesignated South Sand Dune Lower Penn

Exhibits: B.O.P. sketch C-102 plat Supplemental drilling data Surface use and operation plan Directional map to location Exhibits 'A' - 'C'

# SUPPLEMENTAL DRILLING DATA

Bettis, Boyle & Stovall Lotos Federal No. 1 1980' FSL & 1980' FEL Sec. 9, T24S, R31E Eddy County, N.M. NM-29234

The following information is in accordance with 'Onshore Oil and Gas Order' No. 1:

# 1. Geologic Name of Surface Formation: Recent

# 2. Estimated Geological Marker Tops:

Rustler	8001	2nd Bone Springs	9,750'
Base of Salt	3,800'	3rd Bone Springs	11,000'
Lamar	4,260'	Wolfcamp	11,450'
Ramsey Sand	4,300'	Strawn	13,350'
Cherry Canyon	5,120'	Atoka	13,500'
Maneito	5,315'	Atoka Bank	13,660'
Brushy Canyon	6,8001	Lower Atoka	13,760'
Bone Springs	8,0801	Morrow	14,300'
1st Bone Springs	9,7501	Lower Morrow	15,030'

3. Estimated Depths to Oil, Gas and Water Zones:

Water: above 500' Gas : below 14,300'

## 4. Proposed Casing and Cement Programs:

See Form 3160-3. Listed below are the grade rating for each casing and liner string.

20" Conductor to 660' - J-55, ST&C casing 13 3/8" Surface to 4,270' - J-55, ST&C casing 9 5/8" Intermediate to 11,700' - P-110, LT&C casing 7 5/8" Drilling Liner from 11,500-13,850' - P-110 liner 5 1/2" Production Liner from 13,650-15,100' - P-110 liner

- 5. Proposed Mud Program:
  - 0 660' Conventional bentonite system adding lime to system to induce flocculation. Paper should be used to control seepage loss. Add 12-15 ppg bentonite, adjust the PH to 9.5-10.0 with lime. Viscosity 36-38 sec/qt. Fluid density A.L.A.P.

660' - 4,270'

Drill out under casing with brine, 10.0 ppg. Mix lime to flocculate and settle drill solids and maintain adequate rheological value. To insure clean hole for running 13 3/8" casing, run salt gel sweep before tripping to run casing. Viscosity 28-32 sec/qt.

4,270 - 11,700'

Drill out under 13 3/8" casing with cut bring, mixing paper for seepage control. Insure clean hole with salt gel pills circulated as needed to sweep dense particles from hole. Chloride concentration will be sufficient prior to entering the Wolfcamp formation @ +/- 11,450'. Heavy brine may be added to system to adjust the salinity at the recommended minimum of 100,000 mg/l chlorides, if needed. Fluid density - initially 8.5-8.6 ppg. Increase to +/- 9.8 ppg prior to entering the Wolfcamp formation. Viscosity - minimum values will be sufficient for both drilling and logging operations.

11,700 - 13,850'

- Brine/polymer system. Drill out under 9 5/8" casing with 10.0 ppg brine water, circulating through the reserve pit. Continue to sweep the hole with Hi-Vis salt gel sweeps, maintaining the PH @ 9.5-10.0 with Caustic Soda. At the top of the Atoka(+/- 13,350'), or when the first gas kick is encountered, return to the steel pits and displace the hole with the brine/ polymer system. Increase the mud weight until the formation is balanced and resume drilling. <u>INITIAL MIXING PROCEDURE</u>:
- 1. Fill the tank to the required level with brine water.
- 2. Add 0.02 ppb of IDF PRESERVATIVE.
- 3. Simultaneously add: .75 ppb IDVIS 1.00 ppb IDF FIR
- 4. Add caustic soda to raise PH to 9.0-9.5
- 5. Add barite to achieve the required density if necessary.

Fluid density - initial 11.0-11.5 ppg ending to 14.5 ppg. Viscosity 36-38 sec/qt. Fluid loss 10-12 ml/30 min reduced to 6 ml/30 min or less by total depth.

13,850 - 15,100'

Brine system maintained essentially in same manner as listed above. Fluid density 10.0 ppg initially. Maximum anticipated mud wt. 11.7 ppg. Viscosity 34-36 sec/qt. PH 9.0-9.5 with caustic soda. Water loss below 6 ml/30 min

-2-

- 6. Pressure Control Equipment: B.O.P. sketch is attached.
- 7. Proposed Testing, Logging and Coring Programs:

Testing: Possible DST's: Cherry Canyon Wolfcamp Atoka Morrow

Logging: Dual Induction, Laterolog, Micro-laterolog

Coring : None anticipated.

- 8. <u>Auxiliary Equipment</u>: A kelly cock will be installed on the rig floor while drilling operations are in progress.
- 9. <u>Abnormal Pressures or Temperature Zones</u>: Possible high pressure may exist in the Atoka formation at approximately 13,500'. No abnormal temperature zones are anticipated.
- 10. <u>Anticipated Starting Date</u>: Commence drilling operations upon approval of the Permit to Drill.

## SURFACE USE AND OPERATION PLAN

Bettis, Boyle & Stovall Lotos Federal No. 1 1980' FSL & 1980' FEL Sec. 9, T24S, R31E Eddy County, N.M.

- 1. Location of Proposed Well:
  - A. Exhibit 'A' is a portion of a map displaying the location as staked. Proposed location is approximately 16 1/2 air miles east of Malaga, New Mexico.
- 2. Access Roads to be Constructed and Reconstructed:
  - A. Exhibit 'B' displays the existing roads and also the planned access roads.
  - B. The new access road will measure 15' wide by approximately 6600' in length and will enter the northwest corner of the well pad as displayed on Exhibit 'B'.
  - C. Existing roads will be used in their present state.
  - D. One cattleguard will be installed as displayed on Exhibit 'B'.
- 3. Location of Existing Wells:
  - A. Exhibit 'A' also displays the existing wells in the immediate area.
- 4. Location of Existing and/or Proposed Production Facilities:
  - A. Necessary production equipment to produce the well will be constructed on the well pad.
- 5. Location and Type of Water Supply:
  - A. Water necessary for drilling operations will be purchased from a nearby commercial source and trucked to the drill site.

# 6. Construction Materials:

A. Construction materials for the well pad and access road will be caliche and will be purchased from an existing Federal pit located in the NE/4NE/4, Sec. 4, T24S, R31E. An archaeological survey was conducted on the pit by ACA, Portales, New Mexico, May 26, 1988, under report #F88-151. No cultural resources present.

#### 7. Methods for Handling Waste Disposal:

- A. Drill cuttings will be disposed of in the reserve pits.
- B. Drilling fluids will be allowed to evaporate in the reserve pits until dry.
- C. Water produced during tests will be disposed of in reserve pits.
- D. Oil produced during testing operations will be stored in test tanks until sold or transferred to stock tanks.
- E. All trash will be buried in a separate pit and covered with a minimum of 24 inches of dirt.
- F. The location will be cleaned of all debris as soon as drilling operations are completed.

### 8. Ancillary Facilities:

A. None anticipated.

# 9. Well Site Layout:

- A. Exhibit 'C' displays the well site and rig layout.
- 10. Plans for Reclamation of the Surface:
  - A. After completion of operations, all material not needed for producing the well will be removed. Pits will be filled and the location cleaned of all trash and junk to leave the well site in good condition.
  - B. Any unguarded pits containing fluids will be fenced until dry.
  - C. If the test well results in a non-commercial test, the well pad and new access road will be rehabilitated to BLM requirements.
- 11. Surface Ownership: The surface is Federal. Grazing allottee:

Snyder Ranches, Ltd. c/o Larry Squires P.O. Box 726 Lovington, New Mexico 88260 Telephone: 393-7544 Allottment #7042

-2-

# 12. Other Information:

- A. Topography: Terrain in the area of the well pad and access road slopes to the northeast.
- B. Soil: Consists of Berino complex sands.
- C. Vegetation: oakbrush, prickly pear, snakeweed, mesquite, buckwheat, croton, three-awn, windmill grass, black gramma, cane bluestem, sand dropseed.
- D. Archaeological Clearance: Archaeological survey performed May 26, 1988, by ACA, Portales, New Mexico, submitted under report #F88-151, dated May 31, 1988.

#### 13. Operator's Representative and Certification:

Wayne Schkade Bettis, Boyle & Stovall P.O. Box 1240 Graham, Texas 76046 Telephone: (817)549-0780

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite 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 the work associated with operations herein will be performed by BETTIS, BOYLE & STOVALL and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

august 26, 1988

erry W. Franklin-Agent

Directions to Location

Bettis, Boyle & Stovall Lotos Federal No. 1 1980' FSL & 1980' FEL Sec. 9, T24S, R31E Eddy County, N.M.

Starting point being the junction of highway 31(Loving) & 128(Jal):

00.00 Proceed east-southeast on Highway 128(Jal) and proceed for 13.5 miles

13.50 Turn south on oilfield road and proceed south for 2.8 miles

16.30 Turn east of .3 miles

16.60 Turn south for 1.2 miles

17.80 Location



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ır daən Oil ∙ I + 58 (3) \$1705	7: 20 ' Richardson Gil 12: 1 - 60(2) 0 546 22:68 5 <sup>1</sup>	Richardson Gi <sup>s</sup> 12+1 - 66 (1) 0566	Richardson (%) 12 - 1 - 60 (2) 8923	Richardson Oil 0822	R.L.Harrison stal 12-1-8023 012121 Texoco V2	R.L.Herrisen, etal 22 - 1 - 60(2) J 013121 Texuco Vg I 1
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10 13792 OM 9-1-35 State	1 031302 37.81 8 49 173433 673445 1 1 1 0 5. 1 1 1 1 101 101 101 101 10	Loto 1980	, Boyle & Stoval s Federal No. 1 FSL & 1980' FEL	1 - 19344 19344 4 1. 14 U.S	"Collon Drow Unit" 3735 - 75674 - 773854 - 873843 Pouley Pet. 056779 - 4;5. 1354, - 21544 - 76683 - 20859	аран Преза ат. 
ion Oils etal Of Here	Richardsen Oils va H BU Payley Pay esess Poker Core	Richardsen Sec.	9, T24S, R31E	JJJ7572 73922 / Nalipaulay fatr. In Braulay fatr. In Braulay fatr.	1955. 2'3548 Juo 68 Jud 19 Texaco 6, Pouley Pe u 4562	





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Exhibit 'C' Bettis, Boyle & Stovall Lotos Federal No. 1 1980' FSL & 1980' FEL Sec. 9, T24S, R31E Eddy County, N.M.

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