

APPLICATION TO DRILL

Brazos Petroleum Company
Kringel Federal No. 1
Section 7, T-9-S, R-38-E
Lea County, New Mexico

In response to questions asked under Section II B of Bulletin NTL-6, the following answers are provided for your consideration:

1. Location: 660' FSL & 1980' FEL, Section 7, T-9-S, R-38-E, Lea County, New Mexico
2. Elevation Above Sea Level: 3966.7'
3. Geologic Name of Surface Formation: Alluvium
4. Drilling Tools and Associated Equipment: Conventional drilling tools using mud for the circulation medium.
5. Proposed Drilling Depth: 5200'±
6. Estimated Geological Marker Tops: Yates 2910'; San Andres 4195'; Pi Marker 4756'; San Andres porosity 4917'.
7. Mineral Bearing Formation: Water bearing - none; gas bearing - none; oil bearing - San Andres at 4917'.
8. Casing Program: (A) Surface casing - 8 5/8" 24#/ft K-55 new casing. (B) Production casing - 4 1/2" 10.5#/ft K-55 new casing.
9. Setting Depth of Casing and Cement for Same: (A) 8 5/8" casing set at 350'±. Cement will be circulated to surface using 300 sacks of Halliburton Lite with 3# gilsonite/sack, 1/4# flocele/sack, 0.2% CaCl₂; followed by 200 sacks Class 'C', 0.2% CaCl₂. (B) 4 1/2" casing set at 5200'± and will be cemented with 300 sacks Class 'C', 50-50 pozmix, 8# salt/sack, 3% CFR-2, 1/4# flocele/sack.
10. Pressure Control Equipment: Blowout preventers will be installed on the surface casing. They will be 8" API Series 900 dual preventers adapted for the drilling contractor's 4 1/2" and 5 1/2" drill pipe. They will be capable of closing off on all open areas. The blowout preventers will be hydraulically actuated by an 80-gallon Payne accumulator. The blowout preventers will be tested to 2000 psig after they are installed on the surface casing, prior to drilling out and each time they are removed or rearranged on the wellhead.

11. Proposed Circulation Medium: Mud will be used for the circulating medium for all depths in this well. The following mud properties will be maintained: Viscosity sufficient to clean hole; weight 9.5-10.0 ppg; viscosity through pay zone 45 to 50 for good samples.
12. Testing, Logging and Coring Programs: (A) Testing - All testing will be commenced after the well is drilled and casing has been set and cemented. (B) Logging - At total depth the following logs will be run: 0 - 5200'± sidewall neutron porosity with gamma ray and caliper, dual laterolog, micro-SFL. (C) No coring.
13. Potential Hazards: No abnormal pressure or temperature zones are anticipated. Hydrogen sulfide gas is not expected to be a problem; however, the drilling rig will be so situated as to allow all gas vapors to be expelled away from all personnel gathering sites and engine exhausts.
14. Anticipated Starting Date and Duration of Operations: Commence May 6, 1981. Three weeks to completion on May 27, 1981.
15. Other Facets of Operation: After running 4 1/2" casing, cased hole gamma ray collar correlation logs will be run from total depth to 4200'±. The San Andres porosity pay will be perforated and acidized. The well will then be swab tested and a pumping unit will be installed to potential and produce the well.

177

RECEIVED

MAY 26 1981

Office of the Secretary of Defense

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-83

All distances must be from the outer boundaries of the Section.

Operator Brazos Petroleum Co.			Lease <i>Terdesher</i> Kringel Federal Co.		Well No. 12
Unit Letter 0	Section 7	Township 9 South	Range 38 East	County Lea	
Actual Footage Location of Well: 660 feet from the South line and 1980 feet from the East line					
Ground Level Elev. 3966.7	Producing Formation San Andres		Pool Sawyer	Dedicated Acreage: 40 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.

CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief:

Joe T. Janica
Name

Joe T. Janica

Position

Agent

Company

Brazos Petroleum Company

Date

May 12, 1981

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 the best of my knowledge and belief.

Date Surveyed

March 31, 1981

Registered Professional Engineer and/or Land Surveyor

John W. West

Certificate No. **JOHN W. WEST 676**
PATRICK A. ROMERO 6885
Ronald J. Eldon 3239

0 230 460 690 920 1150 1380 1610 1840 2070 2300 2530 2760 3000

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. NM 28064		
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
2. NAME OF OPERATOR Brazos Petroleum Company			7. UNIT AGREEMENT NAME FERDERBER		
3. ADDRESS OF OPERATOR 708 Petroleum Building, Midland, TX 79701			8. FARM OR LEASE NAME Kringel Federal COM		
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 660' FSL & 1980' FEL, Sec. 7, T-9-S, R-38-E At proposed prod. zone Same			9. WELL NO. T2		
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 15 miles east of Crossroads, NM			10. FIELD AND POOL, OR WILDCAT Sawyer (San Andres)		
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 660'			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 7, T-9-S, R-38-E		
16. NO. OF ACRES IN LEASE 200			12. COUNTY OR PARISH Lea		
17. NO. OF ACRES ASSIGNED TO THIS WELL 40			13. STATE NM		
18. DISTANCE FROM PROPOSED* LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. NA			19. PROPOSED DEPTH 5200'±		
20. ROTARY OR CABLE TOOLS Rotary			21. APPROX. DATE WORK WILL START* 5/6/81		
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3966.7' GR			22. APPROX. DATE WORK WILL START* 5/6/81		

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24#	350'±	500 sx; five to surface
7 7/8"	4 1/2"	10.5#	5200'±	300 sx

MAY 12 1981

U.S. GEOLOGICAL SURVEY
HOBBART

BOP: 8" API Series 900 dual preventers 3000 psi working pressure

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, 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.

24. SIGNED Jerry Franklin TITLE Agent DATE 4/23/81

(This space for Federal or State office use)

PERMIT NO. <u>APPROVED</u>		APPROVAL DATE _____	
APPROVED BY <u>GEORGE H. STEWART</u>		TITLE _____	
DATE <u>MAY 19 1981</u>		DATE _____	
FOR JAMES A. GILLHAM DISTRICT SUPERVISOR			

*See Instructions On Reverse Side