

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICAT
(Other instructions on
reverse side)

Form approved.
Budget Bureau No. 42-R1425.

N.M.O.C.D. COPY

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. LC 068035		
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input 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		
3. ADDRESS OF OPERATOR 708 Petroleum Building, Midland, TX 79701			8. FARM OR LEASE NAME Holcomb '18' Federal		
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 1980' FWL & 760' FNL, Sec. 18, T-9-S, R-38-E At proposed prod. zone Same			9. WELL NO. 1		
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 drlg. unit line, if any) 760'			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 18, T-9-S, R-38-E		
16. NO. OF ACRES IN LEASE 160			12. COUNTY OR PARISH 13. STATE Lea NM		
17. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. NA			14. NO. OF ACRES ASSIGNED TO THIS WELL 40		
18. PROPOSED DEPTH 5200'±			15. ROTARY OR CABLE TOOLS Rotary		
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3976' GR			22. APPROX. DATE WORK WILL START* 11/24/80		

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; circ to surface
7 7/8"	4 1/2"	10.5#	5200'±	300 sx

Blowout Preventer: 8" X 900 Series Shaffer Double Ram

RECEIVED

JAN 21 1981

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HOBBS, NEW MEXICO

RECEIVED

DEC 9 1980

U. S. GEOLOGICAL SURVEY
HOBBS, NEW MEXICO

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.

SIGNED George H. Hobbs TITLE Agent DATE 11/11/80
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY Mr. S. J. GEORGE TITLE DISTRICT ENGINEER DATE DEC 15 1980

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

**NEW ICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section

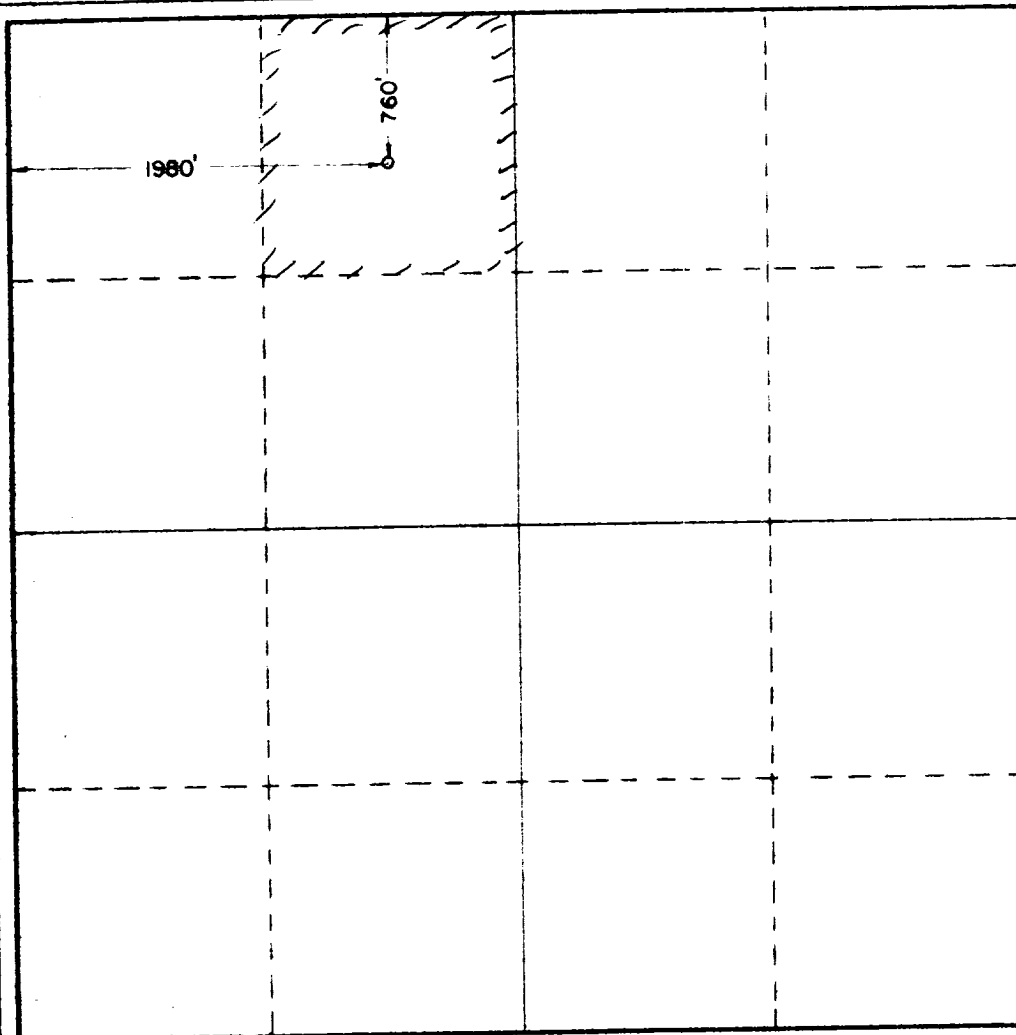
Operator Brazos Petroleum Co.			Lease Holcomb 18 Fed.		Well No. 1
Unit Letter C	Section 18	Township 9 South	Range 38 East	County Lea	
Actual Footage Location of Well: 1980 feet from the west line and 760 feet from the north line					
Ground Level Elev. 3976.0	Producing Formation San Andres		Pool Sawyer	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.

Name
John T. Jirinec
Position
Agent

Company
Brazos Petroleum Co.

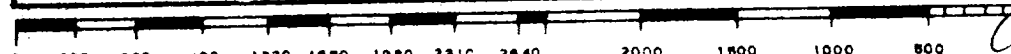
Date
November 11, 1980

I hereby certify that the well location shown on this plat was placed from field notes of actual survey 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
Oct. 24, 1980

Registered Professional Engineer and/or Land Surveyor

John W. West
Certificate No. **JOHN W. WEST 678**
PATRICK A. ROMERO 6868
Ronald J. Eldson 3239



APPLICATION TO DRILL

Brazos Petroleum Company
Holcomb '18' Federal No. 1
Section 18, 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: 1980' FWL & 760' FNL, Section 18, T-9-S, R-38-E, Lea County, New Mexico
2. Elevation Above Sea Level: 3976'
3. Geologic Name of Surface Formation: Alluvium
4. Drilling Tools and Associated Equipment: Conventional rotary drilling rig using mud for the circulation medium
5. Proposed Drilling Depth: 5200'±
6. Estimated Geological Marker Tops: Yates 2920'; San Andres 4200'; Pi Marker 4760'; San Andres porosity 4920'.
7. Mineral Bearing Formation: Water bearing - none; gas bearing - none; oil bearing - San Andres at 4920'.
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 November 24, 1980. Three weeks to completion on December 15, 1980.
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.