Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

645

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [ ] GAS WELL [X] OTHER — SINGLE ZONE [X] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR
PAN AMERICAN PETROLEUM CORPORATION

3. ADDRESS OF OPERATOR
501 Airport Drive, Farmington, New Mexico

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 1180' FNL & 1000' FEL, Unit "A"
At proposed prod. zone: Same

5. LEASE DESIGNATION AND SERIAL NO.: SF 078139
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT AGREEMENT NAME:
8. FARM OR LEASE NAME: E. E. Elliott "B"
9. WELL NO.: 10
10. FIELD AND POOL, OR WILDCAT: Blanco Pictured Cliffs
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: NE/4 NE/4 Section 27, T-30-N, R-9-W

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
6 miles northwest of Blanco, New Mexico

12. COUNTY OR PARISH: San Juan
13. STATE: New Mexico

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 1180' N.
16. NO. OF ACRES IN LEASE: 1640
17. NO. OF ACRES ASSIGNED TO THIS WELL: 160
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.: 190' S.
19. PROPOSED DEPTH: 2750'
20. ROTARY OR CABLE TOOLS: Rotary
21. ELEVATIONS (Show whether DF, RT, GR, etc.): Report Later
22. APPROX. DATE WORK WILL START*: 9-23-68

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#	200'	200 sx.
6-3/4"	4-1/2"	9.5#	2750'	425 sx.

Copy of Location Plat attached.

Copies of all logs run will be furnished upon reaching total depth. No open hole log to be run.

Completion procedure will be designed as indicated by logs and data obtained during drilling operations.

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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 C. W. Eaton, Jr. TITLE Area Engineer DATE 9-13-68

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

Items 15 and 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

Item 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

☆ U.S. GOVERNMENT PRINTING OFFICE : 1963—O-711-396

NEW MEXICO OIL CONSERVATION COMMISSION

WELL LOCATION AND ACERAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section

ıtor	Lease	Well No.
PAN AMERICAN PETROLEUM CORPORATION	E. E. ELLIOTT "B"	10

Letter	Section	Township	Range	County
A	27	30 NORTH	9 WEST	SAN JUAN

I Footage Location of Well:
1180 feet from the NORTH line and 1000 feet from the EAST line

d Level Elev.	Producing Formation	Pool	Dedicated Avereage:
5973.0	PICTURED CLIFFS	BLANCO PICTURED CLIFFS	160 NE/4 Acres

Outline the acerage dedicated to the subject well by colored pencil or hachure marks on the plat below.

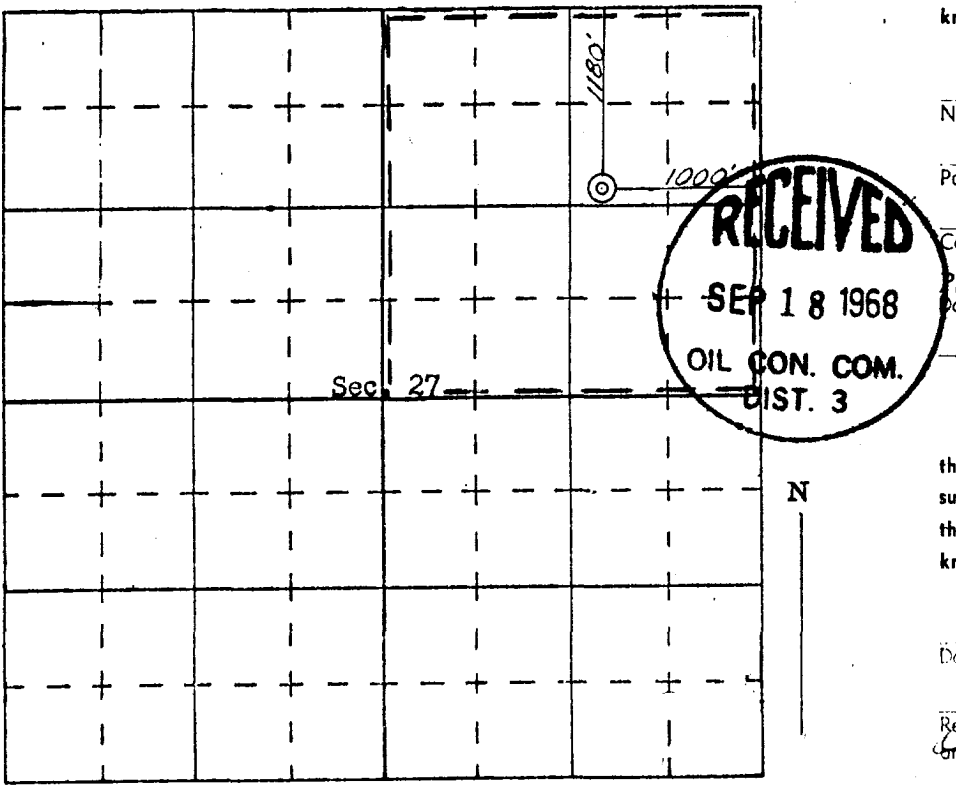
If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working erest and royalty),

If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated communitization, unitization, force-pooling. etc?

) Yes ( ) No If answer is "yes," type of consolidation .....

ınswer is "no," list the owners and tract descriptions which have actually consolidated. (Use reverse side of this form if essary.) .....

allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-ling, or otherwise) or until a non standard unit, eliminating such interests, has been approved by the Commission.



SCALE—4 INCHES EQUALS 1 MILE

SAN JUAN ENGINEERING COMPANY, FARMINGTON, N. M.

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CERTIFICATION

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

Name G. W. Eaton, Jr.

Position Area Engineer

Company PAN AMERICAN PETROLEUM CORP.

Date September 12, 1968

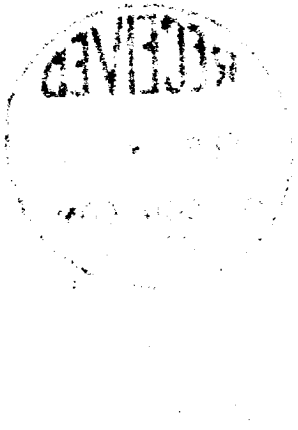
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed 10 September, 1968

Registered Professional Engineer and/or Land Surveyor

JAMES P. LEESE

Certificate No. 1463



NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 10-23-68	
Company: PAN AMERICAN PETROLEUM CORP.			Connection: None		
Pool: Blanco			Formation: Pictured Cliffs		Unit
Completion Date: 10-16-68	Total Depth: 2760		Plug Back TD: 2728	Elevation: GL 5953/ RDB 5966	Farm or Lease Name: E. E. Elliott "B"
Csg. Size: 4.500 / Wt.: 9.5 / d: 4.090 / Set At: 2748			Perforations: From 2682 To 2697		Well No.: 10
Tbg. Size: 1.500 / Wt.: 2.90 / d: 1.610 / Set At: 2695			Perforations: From Open Ended To		Unit: A / Sec.: 27 / Twp.: 30 / Rge.: 9
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: None		County: San Juan
Producing Thru: Casing	Reservoir Temp. °F: 90° @ TD est.	Mean Annual Temp. °F: est. 60°	Baro. Press. – P_a: 12 psia est.		State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
2690	2690	.650 est.						

FLOW DATA

NO.	Line Size	X	Choke Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA Press. p.s.i.g.	TUBING DATA Temp. °F	CASING DATA Press. p.s.i.g.	CASING DATA Temp. °F	Duration of Flow
SI	7 Days						609		609		
1.	2"		.750	196			214	60°	196	60°	3 Hrs.
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	12.3650		208	1.000	.9608	1.021	2523
2.							
3.							
4.							
5.							

NO.	P_t	Temp. °R	T_r	Z
1.				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ XXXXXXXXX
Specific Gravity Flowing Fluid _____ XXXXXX
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R

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P_c 621 P_c^2 385,641

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		226	51,076	334,565
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{385,641}{334,565}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.1283$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n =$ 2847

Absolute Open Flow 2847 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n .85

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	B. D. Dukes		E. R. Hirst