

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

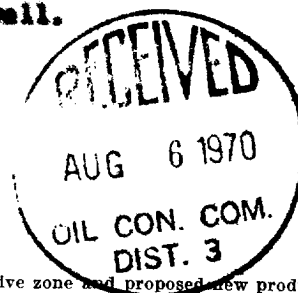
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. Jicarilla Contract 146																					
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Jicarilla Apache																					
2. NAME OF OPERATOR PAN AMERICAN PETROLEUM CORPORATION		7. UNIT AGREEMENT NAME																					
3. ADDRESS OF OPERATOR 501 Airport Drive, Farmington, New Mexico - 87401		8. FARM OR LEASE NAME Jicarilla Contract 146																					
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 830' FWL and 840' FWL At proposed prod. zone Same		9. WELL NO. 22																					
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 16 Miles Northeast of Counselors, New Mexico		10. FIELD AND POOL, OR SUBCAT. South Blanco Pictured Cliffs & Basin Dakota																					
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 830'	16. NO. OF ACRES IN LEASE 2957	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA N2/4 Section 10, T25N, R5W																					
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 2500'	19. PROPOSED DEPTH 7425'	12. COUNTY OR PARISH Rio Arriba																					
21. ELEVATIONS (Show whether DF, RT, GR, etc.) Will Report Later		13. STATE New Mexico																					
22. APPROX. DATE WORK WILL START* 8-17-70		17. NO. OF ACRES ASSIGNED TO THIS WELL 320 Dakota Unit, 160 P.C. Unit																					
20. ROTARY OR CABLE TOOLS Rotary 0-7D		23. PROPOSED CASING AND CEMENTING PROGRAM																					
<table border="1"><thead><tr><th>SIZE OF HOLE</th><th>SIZE OF CASING</th><th>WEIGHT PER FOOT</th><th>SETTING DEPTH</th><th>QUANTITY OF CEMENT</th></tr></thead><tbody><tr><td>12-1/4"</td><td>8-5/8"</td><td>24#</td><td>450'</td><td>300 sacks</td></tr><tr><td>6-3/4"</td><td>4-1/2"</td><td>10.5#</td><td>7400'</td><td>1900 sacks w/stage tools</td></tr><tr><td></td><td></td><td></td><td></td><td>100' below Mesaverde & Pictured Cliffs</td></tr></tbody></table>				SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT	12-1/4"	8-5/8"	24#	450'	300 sacks	6-3/4"	4-1/2"	10.5#	7400'	1900 sacks w/stage tools					100' below Mesaverde & Pictured Cliffs
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				100' below Mesaverde & Pictured Cliffs																			

Completion will be determined upon reaching total depth.

Copies of Location Plat are Attached.

Copies of all logs run will be furnished upon completion of the well.



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. Original Signed By: W. EATON, JR. TITLE Area Engineer DATE August 3, 1970

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY [Signature] TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY: _____

*See Instructions On Reverse Side

Instructions

General: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either 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 drill 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.

**NEW MEXICO 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.

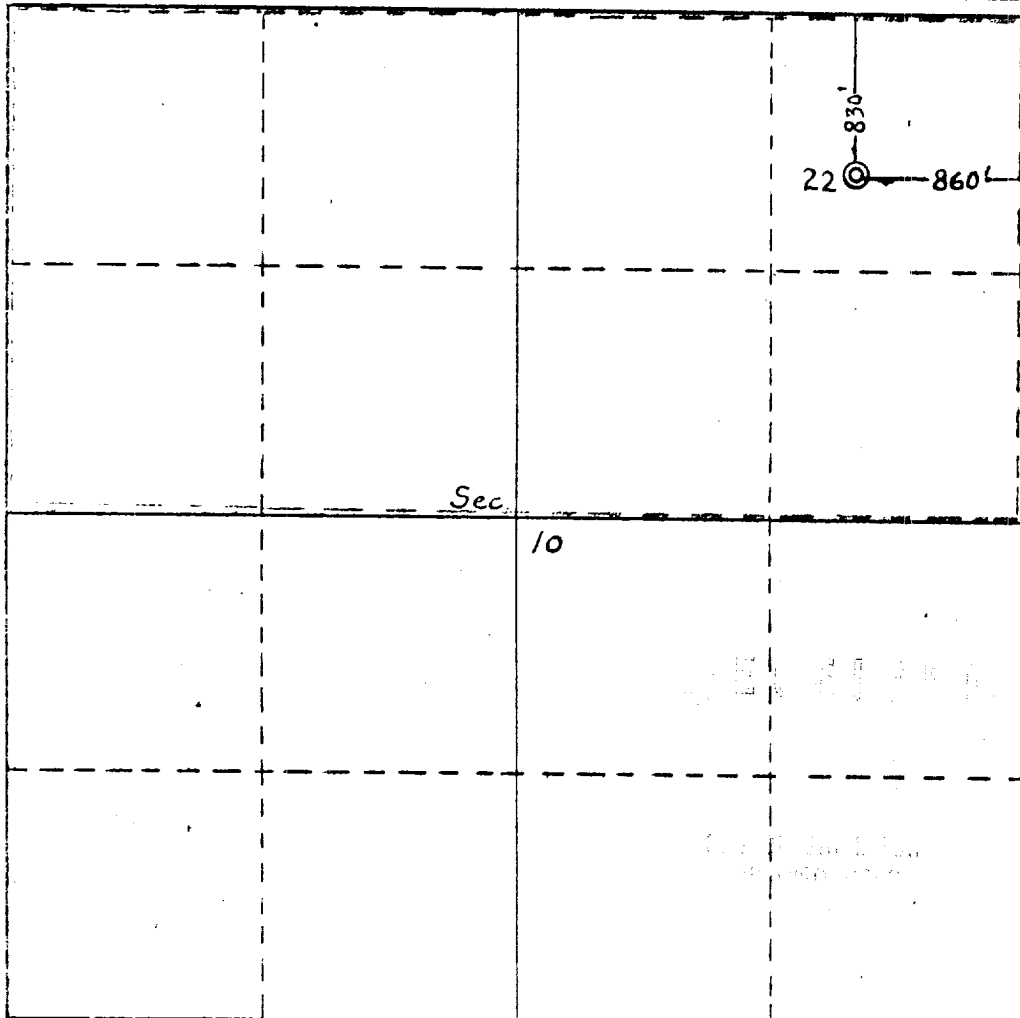
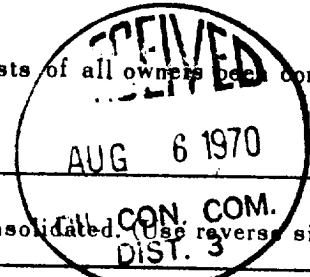
Operator Pan American Petroleum Corp.			Lease Jicarilla Contract 146		Well No. 22
Unit Letter A	Section 10	Township 25N	Range 5W	County Rio Arriba	
Actual Footage Location of Well: 830 feet from the North line and 860 feet from the East line					
Ground Level Elev. 6671' (Ungraded)	Producing Formation Dakota		Pool Basin Dakota		Dedicated Acreage 320 <input checked="" type="checkbox"/> N/2 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
G. W. Eaton, Jr.

Position
Area Engineer

Company
PAN AMERICAN PETROLEUM CORP.

Date
August 3, 1970

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
July 30, 1970

Registered Professional Engineer and/or Land Surveyor
Fred B. Kerr, Jr.

Certificate No.
3950

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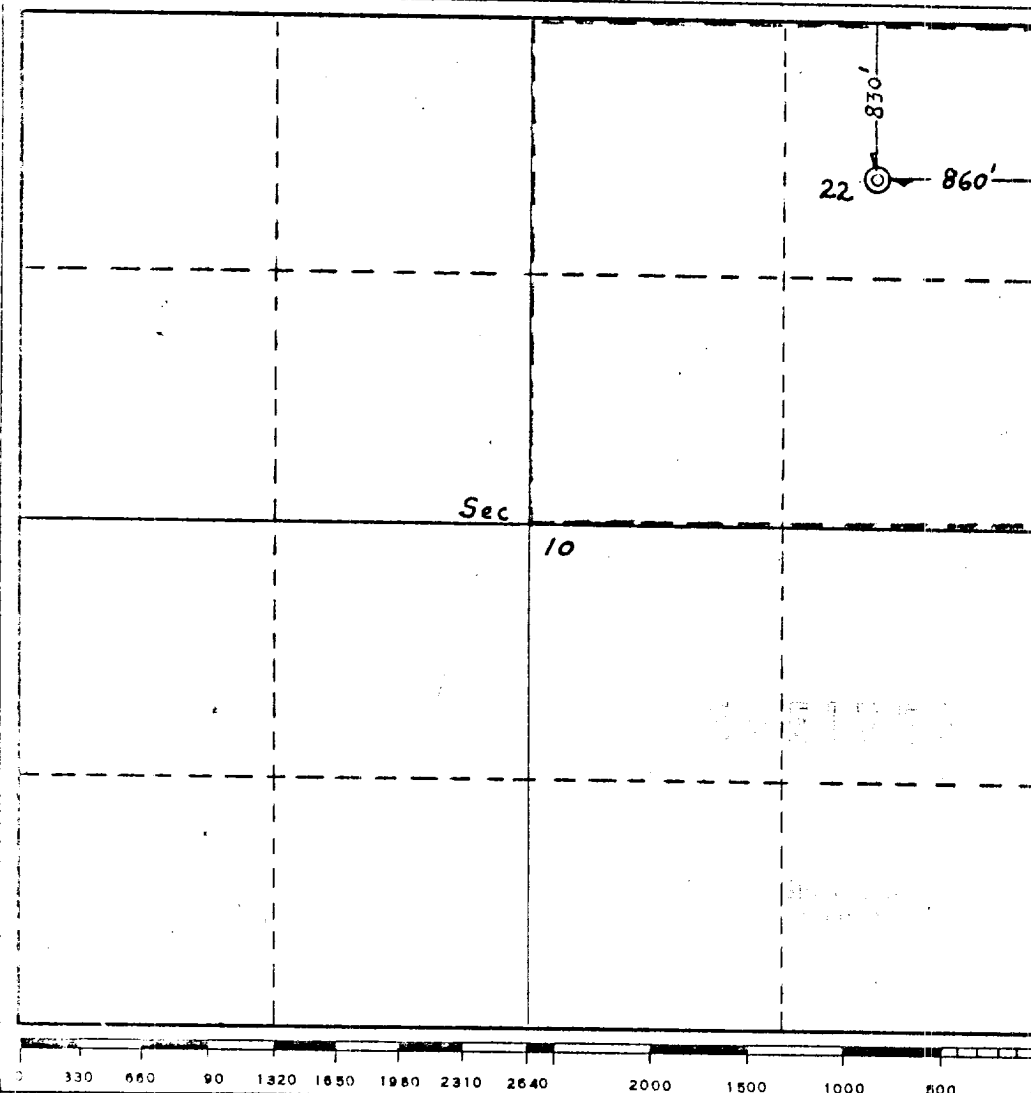
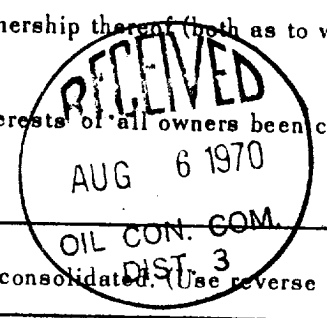
Operator Pan American Petroleum Corp.			Lease Jicarilla Contract 146		Well No. 22
Unit Letter A	Section 10	Township 25N	Range 5W	County Rio Arriba	
Actual Footage Location of Well: 330 feet from the North line and 860 feet from the East line					
Ground Level Elev. 6671' (Ungraded)	Producing Formation Pictured Cliffs		Pool So. Blanco Pictured Cliffs	Dedicated Acreage: NE/4 160 Acres	

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