

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☐GAS
WELL ☒

OTHER

SINGLE
ZONE ☒MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

PAN AMERICAN PETROLEUM CORPORATION

3. ADDRESS OF OPERATOR

P. O. Box 480, Farmington, New Mexico

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements*)

At surface 930' FNL and 1040' FNL

At proposed prod. zone Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

15 miles south of Bloomfield, New Mexico

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. line, if any)

930'

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,

OR APPLIED FOR, ON THIS LEASE, FT.

200'

16. NO. OF ACRES IN LEASE

640

19. PROPOSED DEPTH

6700'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

320

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

To be reported later.

22. APPROX. DATE WORK WILL START*

9-1-64

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'	250 Sacks
7-7/8"	4-1/2"	10.5#	6700'	1500 Sacks*

*To be cemented by 2 stage method with stage collar set 100' below base of Mesaverde.

Copies of Location Plat are attached.

Completion will be as indicated upon reaching total depth.

Copies of any logs run will be furnished upon completion of well.

Verbal approval received 7-13-64, Ward to Hollingsworth.

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.

Fred L. Nabors, District Engineer

SIGNED

ORIGINAL SIGNED BY

TITLE

DATE July 14, 1964

F. H. HOLLINGSWORTH

(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

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 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.

NEW MEXICO OIL CONSERVATION COMMISSION Well Location and Acreage Dedication Plat

SECTION A.

Date **July 13, 1964**

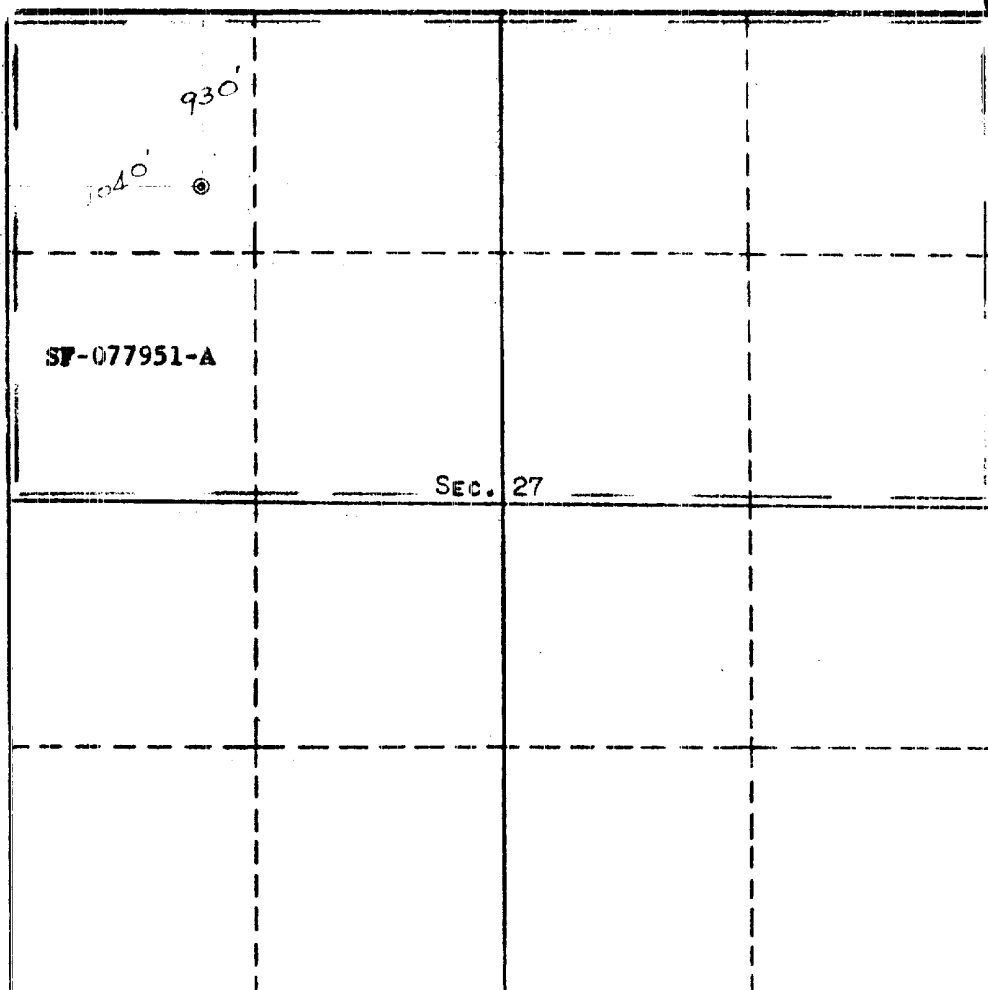
Operator **PAN AMERICAN PETROLEUM CORPORATION** Lease **JACK FROST "B"**
Well No. **2** Unit Letter **D** Section **27** Township **27 NORTH** Range **10 WEST** NMPM
Located **930** Feet From **NORTH** Line **104-0** Feet From **WEST** Line
County **SAN JUAN** G. L. Elevation **Report Later** Dedicated Acreage **320** Acres
Name of Producing Formation **Dakota** Pool **Basin Dakota**

- Is the Operator the only owner* in the dedicated acreage outlined on the plat below? Yes ☐ No ☒
- If the answer to question One is "No," have the interests of all the owners been consolidated by communization agreement or otherwise? Yes ☒ No ☐ If answer is "Yes," Type of Consolidation **Jointly owned acreage - all owners approved drilling of well.**
- If the answer to question Two is "No," list all the owners and their respective interests below

OWNER

LAND DESCRIPTION

SECTION B.



This is to certify that the information in Section A above is true and complete to the best of my knowledge and belief.

PAN AMERICAN PETROLEUM CORP.

F. H. Hollingsworth

F. H. Hollingsworth
REPRESENTATIVE

P. O. Box 480
Farmington, New Mexico

ADDRESS

This is to certify that the well location shown on the plat in Section B 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 **JUNE 29, 1964**

Four States Engineering Co.
FARMINGTON, NEW MEXICO

Ernest W. Eckert
REGISTERED ENGINEER OR
LAND SURVEYOR

Certificate No **3602**



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)Form approved.
Budget Bureau No. 42-R1424.
5. LEASE DESIGNATION AND SERIAL NO.3F-077951-1
6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☒ OTHER	7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR PAN AMERICAN PETROLEUM CORPORATION	8. FARM OR LEASE NAME Just Frost 544
3. ADDRESS OF OPERATOR P. O. Box 480, Farmington, New Mexico	9. WELL NO.
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 930' FRL and 1040' FRL, Section 27, T-27N, R-10W	10. FIELD AND POOL, OR WILDCAT Santa Fe
11. PERMIT NO.	11. SEC. T. R. OR ALK. AND SURVEY OR AREA 26 1/4 27 1/4 Section 27, T-27N, R-10W
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6155' RDB	12. COUNTY OR PARISH San Juan
	13. STATE New Mexico

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Well History

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The above well was spudded on August 31, 1964 and drilled to a depth of 367'. 2-5/8" casing was set at that depth with 200 sacks cement containing 2% calcium chloride. Cement circulated to surface. After waiting on cement tested casing with 600 PSI. Test ok. Reduced hole to 7-7/8" and resumed drilling.

Well was drilled to a total depth of 6554' and 4-1/2" casing was set at that depth with stage tool set at 4655'. First stage cemented with 400 sacks cement containing 6% gel and 2 lbs medium Tuf Plug per sack followed by 100 sacks neat cement. After waiting on cement tested casing with 3500 PSI. Test ok. Cemented second stage with 1100 sacks cement containing 6% gel and 2 lbs medium Tuf Plug per sack. After waiting on cement tested casing with 3500 PSI. Test ok.

Perforated 6450-80 with 2 shots per foot. Fracked these perforations with 29,210 gallons water containing .8% potassium chloride and 2 lbs FR-8 per 1000 gallons and 30,600 lbs 20-40 sand and 3,000 lbs super rounded walnut shells blended with 9,000 lbs Amoco 506 resin and 1/2 gallon 5-8 per 1000 gallons water and 3/4 gallons Amoco surfactant per 1000 gallons water. Breakdown pressure 1000, treating pressure 3110, average injection rate 51.7 BPH. Perforated 6391-6400 and 6355-66 with 2 shots per foot. Fracked these perforations with 19,500 gallons water containing .8% potassium chloride and 2 lbs FR-8 per 1000 gallons and 13,000 lbs 20-40 sand and 2000 lbs super round walnut shells blended with 6000 lbs Amoco 506 resin 12-20 and 1/2 gallon 5-8 per 1000 gallons with 3/4 gallons Amoco 506 surfactant per 1000 gallon. Breakdown pressure 2450, treating pressure 3500, average injection 23.7 BPH.

2-3/8" tubing set at 6344 and well completed October 4, 1964 as Basin Dakota Field well. Preliminary test 4600 MCFL.

18. I hereby certify that the foregoing is true and correct

Fred L. Babore, District Engineer

SIGNED

SIGNED BY

TITLE

DATE October 13, 1964

(This space for Federal or State use only)

APPROVED BY

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, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law 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 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 17: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

SF-077951-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Jack Frost "B"

9. WELL NO.

2

10. FIELD AND POOL, OR WILDCAT

Basin Dakota

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

NW/4, NE/4 Section 27,
T-27-N, R-10-W

12. COUNTY OR PARISH 13. STATE

San Juan

New Mexico

1.

OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR

PAN AMERICAN PETROLEUM CORPORATION

3. ADDRESS OF OPERATOR

P. O. Box 480, Farmington, New Mexico

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)

At surface 930' FNL and 1040' FNL

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

6155 (DB)

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT*

(Other)

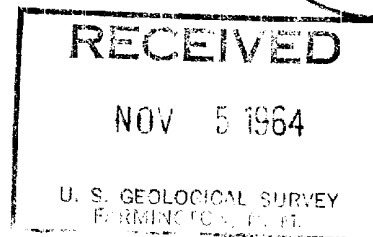
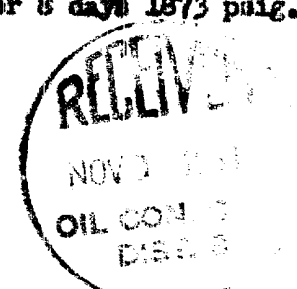
Report of Potential Test

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

This is to report the following Potential Test:

Potential Test October 12, 1964. Flowed 5301 MCFFD through 3/4" choke after 3 hours flow. Absolute open flow potential 6607 MCFFD. Shut in casing pressure after 8 days 1873 psig.



18. I hereby certify that the foregoing is true and correct

SIGNED

ORIGINAL SIGNED BY
L. R. TURNER

TITLE

Administrative Clerk

DATE

November 2, 1964

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

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*See Instructions on Reverse Side

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