

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.

I-05-120-58

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo Tribal

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

U.S.G. Section 19

9. WELL NO.

13

10. FIELD AND POOL, OR WILDCAT

Hoback, Pennsylvania

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

NE/4 Section 19,

T-29-N, R-16-W

12. COUNTY OR PARISH 13. STATE

San Juan

New Mexico

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 ☒

JUL 14 1970

2. NAME OF OPERATOR

PAN AMERICAN PETROLEUM CORPORATION

U.S. GEOLOGICAL SURVEY

3. ADDRESS OF OPERATOR

901 Airport Drive, Farmington, New Mexico 87401

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

7050' PNL & 1810' PNL, Section 19, T-29-N, R-16-W

14. PERMIT NO.

15. ELEVATIONS (Show whether DR, ST, or etc.)

3045' EDS

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OIL CON. COM.

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)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

Testing of Casing pipe

(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.)

TD 7453. PNL 6743.

Moved in service unit 6-22-70. Blow down tubing and casing and killed well down tubing with mud. Nipped up and attempted to pull tubing from packer. Unable to pull tubing out of packer or rotate tubing. Ran free point and found tubing free at 6365'. Ran chemical cutter and cut tubing at 6365'. Circulated tubing one hour and pulled tubing. Ran tubing and cement retainer and set at 3293'. Tested tubing with 1500 psi. Pulled out of retainer and displaced mud in tubing with water. Set back in retainer and pressured back side with 1800 psi. Pumped into perforations 4810-24' and 4620-12' at 3 BPN with 2400 psi. Squeezed with 250 sacks Type "A" cement. Maximum squeeze pressure 2000 psi. Removed 200' and tubing head prep to pull 3-1/2" casing. Opened 9-5/8" 3-1/2" annulus and had 1-1/2" water flow. Ran temperature survey and Cement Bond log. Temperature survey showed water entry 320'. Bond log showed no bond except at 4895-4910'. Nipped up and installed 200'. Doff 3-1/2" casing at 3000' with 4 BPN. Ran tubing and cement retainer set at 4030'. Pulled out of retainer and displaced tubing with water and set into retainer. Pressured back side with 2500 psi and pumped 10 BW into perforations at 1 BPN and 2500 psi. Acidized perforations with 250 gallons 15% regular acid. Pressure dropped from 1 BPN at 2400 psi to 3 BPN at 2000 psi. Squeeze circulation thru 3-1/2" 9-5/8" annulus. Pumped in 100 sacks Type "U" leaving 1 barrel in tubing. Pulled out of retainer and reverse circulated. Shut in annulus and circulated thru tubing and 3-1/2" casing for one hour. 40% total 18 hours with top cement at 4302' by temperature survey. Perforations 4865-13' with 2 BPN. 3-1/2" wear-resistant packer set at 4817' with tail pipe at 4817'.

(See reverse side)

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

SIGNED

Original Signed By

G. W. EATON, JR.

TITLE

Area Engineer

DATE

July 10, 1970

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY

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; and/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.

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4881. Started spotting 500 gallons 15% HCL. Pumped 3 in ahead of acid and pumped 2 barrels acid and lost circulation. Spotted acid, set packer and pressured back side with 1000 psi and added with 500 gallons. No breakdown. Pumped in with 1 HPL and 600 psi. Opened tubing and flowed 19 HPL and 1 HPL in 1-1/2 hours and then. Swabbed 14-3/4 hours and recovered 250 barrels acid and turning to drilling mud and then to water. Fluid level 1500'. Annular would flow 2" stream water when not swabbing and stop flowing when swabbing. Loaded tubing with mud, released packer at 4877' and lost mud in annulus. Pulled tubing and packer. Run tubing and some packer with no seal pipe and set at 4560'. Pressured back side with 1500'. Spotted 10 barrels cement and packed annulus class "A" best cement. Pumped 10 barrels cement and packer while circulating annulus and shut in annulus. Closed packer and staged cement 2-1/2 hours. Pressured to 1500 psi and held. Same in tubing 6 hours. Released packer and circulated and annulated mud. Run tubing and bit and drilled cement stringers 4675-4782' and solid cement 4721-4837' and 4837-73'. No cement 4677' to 4720 4950'. Circulated and conditioned mud. Packed 4665-45' with 2 HPL. Tapped in with packer at 4619' and lost pipe at 4603'. Swabbed 20 HPL and 23 HPL in 2 hours. 150' fluid in hole. Shut in 2 hours. Run swab with fluid level same. Added with 500 gallons 15% regular acid. Pressured back side with 1000 psi and pumped acid at 1 HPL at 2000 psi. No breakdown. Injection pressure decreased to 1500'. 20 HPL and 20 HPL to recover. Swabbed 3 hours and recovered 17-1/2 HPL with 400' fluid in hole. Shut in 2 hours. Run swab with 900' fluid in hole. 150' recovered 20 HPL and 1 HPL. Added with 1000 gallons 15% regular acid. Pressured back side with 1000 psi. No breakdown. Pumped acid to formation with 2000 psi. Air 1-1/2 HPL at 2600 psi. 20 HPL and 20 HPL to recover. Acid did not effect annular flow. Swabbed 20 HPL and 6 HPL and 6 barrels acid cut mud and tubing dry in 2 hours. Shut in 2 hours. Run swab with fluid level 1000' from surface. Swabbed 24 barrels mud in 1-1/2 hours. Swab 6 hours and recovered 40 HPL and 9 barrels water cut mud and 15 HPL. Recovered total 69 HPL and 5 HPL with no change in annular flow. 3 HPL. Fluid level 1600'. 4 HPL. 2600'. 5 HPL. 1000'. 6 HPL. 1500'. 6-1/2 HPL. 3000'. Swabbed 2 hours and recovered 23 barrels acid. Water, making total 167 HPL recovered. Equalized tubing and annulus. Circulated and conditioned one hour. Cement retained set at 4719'. Pressured back side with 1000 psi and pressured 1600 psi. Final pressure 1600 psi. Pumped 1000 sacks type "C" heat. Final pressure 1600 psi. Pumped tubing and set 5-1/2" casing at 4885'. Packed 5-1/2" casing at 3450'. Cement retained set at 3450'. Maximum square pressure 1500 and 1500 psi. Packed 5-1/2" casing at 1900' with 4 HPL. Pressured back side. Pumped into packer at 2 HPL with 750 psi. Spotted with 100 sacks (See attached sheet)