Budget Bureau No. 42-R-355.3.
Approval expires 12-31-55.

U. S. LAND OFFICE Nava jo Tribal
SERIAL NUMBER I-149-IND-8185
LEASE OR PERMIT TO PROSPECT

UNITED STATES

DEPARTMENT OF THEAINTERIOR
GEOLOGICAL SURVEY

A COURT OF THEAINTERIOR

LOG OF OIL OR GAS WELL

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NAVAJO TRIBAL WELL NO. 1

HISTORY OF OIL OR GAS WELL

Well was spudded April 11, 1954, and drilled to total depth of 7215'. Sixteen drill stem tests were run covering all possible productive zones. No commercial shows of oil or gas were encountered. Casing was run as follows: 13-3/8" casing set at 300' with 125 sacks cement plus 8% gel plus 200 sacks neat cement; 7" casing set at 6382' with 50 sacks cement plus 6% gel plus 50 cubic feet strata-crete plus 50 sacks neat Cement. Drill stem tests were run as follows: DST #1, 875-925' Dakota, recovered 435' drilling mud and 360' water cut mud. DST #2, 933-986' Dakota, recovered 830' heavily sulphur cut drilling mud. DST #3, 2165-2190' Entrada, failed. DST #4, 2165-2190', recovered 210' drilling mud and 900' fresh water. DST #5, 3780-3798' Shina-rump, recovered 5' slightly gas cut drilling mud. DST #6, 5628-5655' Pennsylvanian, recovered 30' drilling mud. DST #7, 5754-5865' Pennsylvanian, recovered 15' drilling mud. DST #8, 6382-6409' Pennsylvanian, failed. DST #9, 6382-6409', recovered 45' slightly gas cut mud. DST #10, 6382-6460' Pennsylvanian, recovered 160' slightly gas cut mud. DST #11, 6530-6593' Pennsylvanian, failed. DST #12, 6532-6593' recovered 50' drilling mud. DST #13, 6588-6661' Pennsylvanian, flowed gas at rate of 60 MCFPD and recovered 90' slightly gas cut mud, 90' heavily gas cut mud, and 90' heavily salt water and gas cut mud. DST #14, 6715-6770' Pennsylvanian, recovered 6' slightly gas cut drilling mud. DST #15, 6770-6897' Pennsylvanian, flowed slat water at rate of 30 barrels per hour with slight show of distillate; gas volume was too small to measure and was non-inflammable. DST #16, 7164-7215' Mississippian, flowed salt water at rate of 13 barrels per hour. Well was plugged back from total depth to 6650' with cement and the interval 6600-6650' acidized with 5000 gallons 15% acid. Following this treatment well flowed at rate 2280 MCFPD low BTU gas, 4 barrels distillate per day and 74 barrels salt water per day. Well was plugged back to 6570' with cement and interval 6382-6570' was acidized with 5000 gallons 15% acid. Following this treatment the well swabbed 6 barrels of salt water per hour with no shows of oil or gas.

Well was permanently plugged and abandoned as follows:

1) plugged hole with solid cement from 7215-6570'.

2) spotted 50 sacks cement plug on bottom.

3) 7" casing was shot off at 3964' but unable to pull casing, 7" casing was shot free at 2200' and 2200' of 7" casing was recovered.

4) plugged with solid cement from 4100-3800'.

5) shot off 9-5/8" casing at 400' and 400' of 9-5/8" casing was recovered.

6) plugged hole with solid cement from 450-250' and spotted a 10-sack cement plug at surface in 13-3/8" casing, August 23, 1954.

7) hole filled with 12pound mud at following intervals: from top of cement in bottom of hole to 4100', 3800-450', and from 250' to bottom of 10-sack surface plug.

8) erected 4' pipe marker and restored ground level to original contours as per regulations.