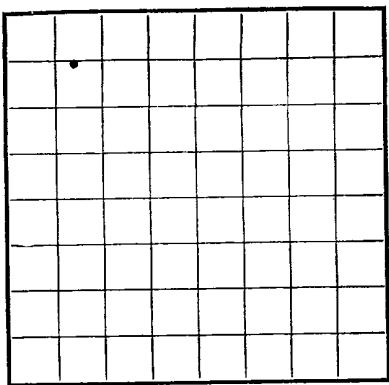


Form 9-330

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



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
FACILITY

COPY

LOG OF OIL OR GAS WELL

Company Stanolind Oil and Gas Company Address Box 591, Tulsa, Oklahoma
Lessor or Tract Navajo Tribal Field Wildcat State New Mexico
Well No. 1 Sec. 12 T. 29N R. 17W Meridian NMPM County San Juan
Location 790 ft. [N] of N Line and 1090 ft. [E] of W Line of Section 12 Elevation 5150
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed [Signature]

Date September 15, 1954 Title Field Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling April 11, 1954 Finished drilling July 27, 1954

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from to No. 4, from to
No. 2, from to No. 5, from to
No. 3, from to No. 6, from to

IMPORTANT WATER SANDS

No. 1, from 878 to 986 No. 3, from to
No. 2, from 2165 to 2190 No. 4, from to

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From	To	
13-3/8"	48	8	Nat'l	298	Guide				
9-5/8"	32	8	Nat'l	266	Guide				
7"	23	8	Smith	6419	Guide	2200			

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13-3/8"	300	325	Displacement		
9-5/8"	2166	565	Displacement		
7"	6382	150	Displacement		

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set
Adapters—Material Size

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from 0 feet to 7215 feet, and from feet to feet
Cable tools were used from feet to feet, and from feet to feet

DATES

August 23, 1954 Put to producing 19.....
The production for the first 24 hours was barrels of fluid of which% was oil;% emulsion;% water; and% sediment. Gravity, °Bé.
If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas
Rock pressure, lbs. per sq. in.

EMPLOYEES

J. D. Starr Driller B. L. Strickland Driller
C. E. Grubb Driller Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	878	878	Sand and shale
878	1088	210	Dakota - Sand and shale
1088	2135	1047	Morrison - Sand and shale
2135	2180	45	<u>Tecito</u> - Sand
2180	2268	88	Entrada - Sand and shale
2268	3742	1474	Sand and shale
3742	3858	116	Shinarump - Sand and conglomerate
3858	5120	1262	Sand and shale
5120	5375	255	Cutler - Sand and shale
5375	5380	5	Rico - shaly sand and lime
5380	7146	1766	Pennsylvanian - Shale and lime
7146	7215	69	Mississippian - Lime

FROM—

TO—

TOTAL FEET

[OVER]

FORMATION

16-43094-3

Company Name _____ Address _____
Well No. _____
Location _____
The information given on this page is for the condition of the well at the date _____
Signed _____
Date _____

OIL OR GAS ZONES OR ZONES
(Describe by G)
No. 1 from _____ to _____
No. 2 from _____ to _____
No. 3 from _____ to _____
No. 4 from _____ to _____
No. 5 from _____ to _____
No. 6 from _____ to _____
No. 7 from _____ to _____
No. 8 from _____ to _____
No. 9 from _____ to _____
No. 10 from _____ to _____

IMPORTANT WATER ZONES
No. 1 from _____ to _____
No. 2 from _____ to _____
No. 3 from _____ to _____
No. 4 from _____ to _____
No. 5 from _____ to _____
No. 6 from _____ to _____
No. 7 from _____ to _____
No. 8 from _____ to _____
No. 9 from _____ to _____
No. 10 from _____ to _____

CASING RECORD
No. _____
Depth _____
Material _____
Remarks _____

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "checked" or left in the well, give the size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

HISTORY OF OIL OR GAS WELL
MUDGING AND CEMENTING RECORD
Plugs and Packers
Shooting Record
Tools Used
Dates
Employees

FROM-	TO-	TOTAL FEET	FORMATION
0	100	100	Gravelly sand
100	200	200	Sand and gravel
200	300	300	Sand and gravel
300	400	400	Sand and gravel
400	500	500	Sand and gravel
500	600	600	Sand and gravel
600	700	700	Sand and gravel
700	800	800	Sand and gravel
800	900	900	Sand and gravel
900	1000	1000	Sand and gravel

LOG OF OIL OR GAS WELL

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' Shinarump, 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 salt 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.