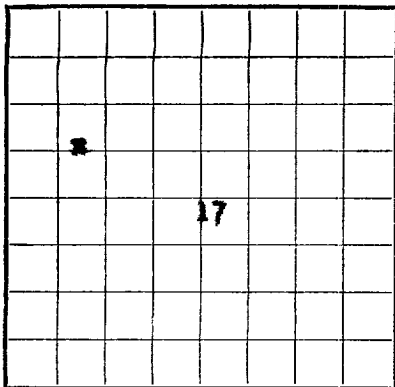
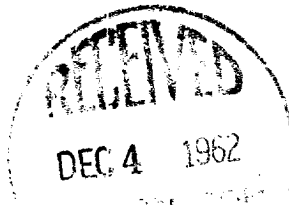


U. S. LAND OFFICE Navajo Tribe
SERIAL NUMBER 6100-012
LEASE OR PERMIT TO PROSPECT 14-20-003-1055

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Leone, Inc. Address 1007 West Apache, Phoenix, Ariz.
Lessor or Tract Hartley-Navajo Field Navajo State New Mexico
Well No. 1 Sec. 17 T. 31N R. 19W Meridian 11E County San Juan
Location 1744 ft. N. of 11 Line and 990 ft. E. of 11 Line of Sec. 17 Elevation 5677 (Derrick floor relative to 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 Lee H. PhillipsDate November 24, 1962 Lee H. Phillips Agent

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

Commenced drilling October 20, 1962 Finished drilling November 24, 1962

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 643' to 663' (water) No. 3, from _____ to _____
No. 2, from 1240' to 1255' (water) 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—	
<u>8 5/8"</u>	<u>26</u>	<u>3</u>	<u>Steel</u>	<u>100'</u>	<u>Regular</u>	<u>Surface</u>			<u>Surface</u>
<u>7"</u>	<u>26</u>	<u>3</u>	<u>Steel</u>	<u>100'</u>	<u>Regular</u>	<u>Surface</u>			<u>Surface</u>
<u>4 1/2"</u>	<u>26</u>	<u>3</u>	<u>Steel</u>	<u>100'</u>	<u>Regular</u>	<u>Surface</u>			<u>Surface</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>8 5/8"</u>	<u>99'</u>	<u>100</u>	<u>Well</u>		
<u>7"</u>	<u>698'</u>	<u>100</u>	<u>Mud</u>		
<u>4 1/2"</u>	<u>667-1240'</u>	<u>75</u>	<u>Block</u>		

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 _____ feet to _____ feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to 1255 feet, and from _____ feet to _____ feet

DATES

_____, 19____ Put to producing November 24, 1962The production for the first 24 hours was 17 barrels of fluid of which _____% was oil; _____% emulsion; 100% 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

_____, Driller _____, Driller
_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	120	120	Dark grey sh & sandy sh.
120	175	55	Dark grey sandy sh & hard streaks
175	250	75	Dark grey sandy sh
250	355	105	Dark grey sh
355	380	25	Dark grey sandy sh.
380	425	45	Dark grey sh.
425	450	25	Dark grey sh & brown ls streaks.
450	565	115	Dark grey sh, sandy sh & ss streaks.
565	600	35	Dark grey sh & ss streaks, trace ls.
600	640	40	Same with less ss.
640	648	8	Dark grey sh & bentonite streak.
648	668	20	Light grey-tan ss & sh streak - Gallup 643'
668	698	30	Dark grey sh & ss (400' str - 652')
698	750	52	Light grey limy ss & sandy sh. (7" cas & 698') (Nacatoos 698')
750	775	25	Dark grey sandy sh.
775	1050	275	Dark grey sh - caving
1050	1110	60	Dark grey brownish limy sh. Green horn ls 1109'
1110	1135	25	Grey ls & dark grey sh. Graneros sh 1134'
1135	1170	35	Dark grey sh, shaley ls, bentonite streaks.
1170	1200	30	Dark grey sh, sandy sh, ss, bentonite streaks. (Graneros-Dakota ss. 1109).
1200	1255	55	Light grey-tan ss & sh streaks. Dakota, (?) 1248' (PPW & 1248'. & 4 1/2" liner & 1250')
1255	1255	0	Light grey ss with sh streaks.

FORMATION RECORD—Continued

PLEASE OR PERMIT TO PROSPECT
SERIAL NUMBER
U. S. LAND OFFICE

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

A 10x10 grid with a few small black marks. There is a small black mark in the 4th row, 8th column. There is a small black mark in the 5th row, 5th column. There is a small black mark in the 5th row, 6th column. There is a small black mark in the 5th row, 7th column. There is a small black mark in the 5th row, 8th column. There is a small black mark in the 5th row, 9th column. There is a small black mark in the 5th row, 10th column. There is a small black mark in the 6th row, 5th column. There is a small black mark in the 6th row, 6th column. There is a small black mark in the 6th row, 7th column. There is a small black mark in the 6th row, 8th column. There is a small black mark in the 6th row, 9th column. There is a small black mark in the 6th row, 10th column. There is a small black mark in the 7th row, 5th column. There is a small black mark in the 7th row, 6th column. There is a small black mark in the 7th row, 7th column. There is a small black mark in the 7th row, 8th column. There is a small black mark in the 7th row, 9th column. There is a small black mark in the 7th row, 10th column. There is a small black mark in the 8th row, 5th column. There is a small black mark in the 8th row, 6th column. There is a small black mark in the 8th row, 7th column. There is a small black mark in the 8th row, 8th column. There is a small black mark in the 8th row, 9th column. There is a small black mark in the 8th row, 10th column. There is a small black mark in the 9th row, 5th column. There is a small black mark in the 9th row, 6th column. There is a small black mark in the 9th row, 7th column. There is a small black mark in the 9th row, 8th column. There is a small black mark in the 9th row, 9th column. There is a small black mark in the 9th row, 10th column. There is a small black mark in the 10th row, 5th column. There is a small black mark in the 10th row, 6th column. There is a small black mark in the 10th row, 7th column. There is a small black mark in the 10th row, 8th column. There is a small black mark in the 10th row, 9th column. There is a small black mark in the 10th row, 10th column.

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 _____

_____, T. M. Attention
Well No. _____
Location _____ ft. S. _____ ft. E. of _____ line of _____
_____ County _____ State _____

Lessor or Trust _____ Field _____ Lease _____

Company _____ Address _____

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

OIL OR GAS SANDS OR ZONES

(1) H_2O and H_2O_2

No. 11 completed as water well casing depth 120 to 130 feet.

No. 2 from 0 to 50 feet
Produced water and water from 0 to 50 feet. Filled to 400 feet

No. 1 from 0 to 50 feet.

IMPORTANT WATER SANDS

No. 3 from 0 to 100 feet
Produced gas slightly and sulphur and water and water

No. 2 from 0 to 100 feet

No. 1 from 0 to 100 feet

Year	Weight per foot	Length (feet)	Amount	Kind of shoe	Cut and pulled from	Remarks	Page 36
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 "sidetracked," or left in the well, give its 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

16-43094-2 U. S. GOVERNMENT PRINTING OFFICE

[illegible]

NAME: _____