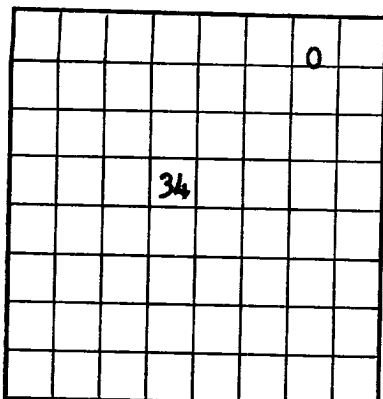




LOCATE WELL CORRECTLY

U. S. LAND OFFICE **Las Cruces**
SERIAL NUMBER **029431**
LEASE OR PERMIT TO PROSPECT **Etz**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

843m

LOG OF OIL OR GAS WELL

Company **Sanders Brother** Address **Box 746, Artesia, N. M.**
Lessor or Tract **Etz** Field **Square Lake** State **New Mexico**
Well No. **4-E** Sec. **34** T. **16S** R. **30E** Meridian **NMPM** County **New Mexico**
Location **660** ft. ^N_S of **N** Line and **660** ft. ^E_W of **E** Line of **sec. 34** Elevation **3775**
(Derives 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 **Forrest Warren**

Date **August 24, 1942** Title **Bookkeeper**
The summary on this page is for the condition of the well at above date.

Commenced drilling **June 30, 1942** Finished drilling **August 24, 1942**

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **2945** to **2950** No. 4, from _____ to _____
No. 2, from **2985** to **2998** No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from **455'** to _____ No. 3, from _____ to _____
No. 2, from **2300'** to _____ 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—	
8 5/8"	11.2	14	530'	530'					
7 1/2"	10.2	14	2860'	2860'					
5 1/2"	10.2	14	2860'	2860'					
(7" pulled when 5 1/2" set)									

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8"	530'	50			
5 1/2"	2860'	100			

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 **Cable** feet to _____ feet, and from _____ feet to _____ feet

DATES

Put to producing **August 24, 1942**

The production for the first 24 hours was **200** thru **2"** tubing 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

A. C. Norris, Driller **Ray Edge**, Driller
K. L. Finley, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	50	50	Red Sand
50	330	280	Red Shale
330	435	105	Anhydrite
435	455	20	Red Bed and Blue Shale
455	475	20	Red Bed
475	515	40	Anhydrite & Red Bed
515	720	205	Salt
720	740	20	Anhydrite
740	870	130	Salt— Shells
870	1095	225	Salt
1095	1135	40	Potash & Salt
1135	1245	110	Salt
1245	1265	20	Anhydrite
1265	1305	40	Anhydrite & Red Bed Breaks
1305	1310	5	Anhydrite
1310	1320	10	Salt
1320	1415	95	Anhydrite
1415	1460	45	" & Red Bed Breaks
1460	1490	30	"
1490	1500	10	Red Sand
1500	1520	20	Anhydrite & Red Shale
1520	2070	550	Anhydrite
2070	2085	15	" & Salt
2085	2105	20	" & Shale
2105	2300	195	"
2300	2340	40	Red Sand

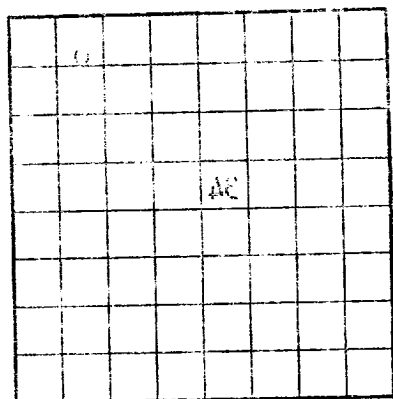
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16-43094-2

FORMATION RECORD—Continued

LOG OF OIL OR GAS WELL

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



Company _____
Lessor or Trust _____
Well No. _____
Location _____ of _____
The information given herewith is a complete and correct record of the well and all work done thereon
as far as can be determined from all available records.
Date _____
The summary on this page is for the condition of the well at above date.
Commenced drilling _____
Finished drilling _____
1943

OIL OR GAS SANDS OR 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

Casing No. _____
Weight _____
Length _____
Diameter _____
Type _____
Purpose _____
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 "underlaid" or left in the well, give its size and location. If the well has been dynamited, give date, position, and number of holes. 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

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 "underlaid" or left in the well, give its size and location. If the well has been dynamited, give date, position, and number of holes. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

MUDDING AND CEMENTING RECORD

Size of casing _____
Weight of cement _____
Method of use _____
Amount of mud used _____
Plugs and Adapters _____
Shooting Record _____
Tools Used _____
Dates _____
Employees _____
Formation Record _____

FORMATION RECORD

FROM	TO	TOTAL FEET	FORMATION
3000	2980	20	Red shale
2980	2960	20	Red shale
2960	2940	20	Red shale
2940	2920	20	Red shale
2920	2900	20	Red shale
2900	2880	20	Red shale
2880	2860	20	Red shale
2860	2840	20	Red shale
2840	2820	20	Red shale
2820	2800	20	Red shale
2800	2780	20	Red shale
2780	2760	20	Red shale
2760	2740	20	Red shale
2740	2720	20	Red shale
2720	2700	20	Red shale
2700	2680	20	Red shale
2680	2660	20	Red shale
2660	2640	20	Red shale
2640	2620	20	Red shale
2620	2600	20	Red shale
2600	2580	20	Red shale
2580	2560	20	Red shale
2560	2540	20	Red shale
2540	2520	20	Red shale
2520	2500	20	Red shale
2500	2480	20	Red shale
2480	2460	20	Red shale
2460	2440	20	Red shale
2440	2420	20	Red shale
2420	2400	20	Red shale
2400	2380	20	Red shale
2380	2360	20	Red shale
2360	2340	20	Red shale
2340	2320	20	Red shale
2320	2300	20	Red shale
2300	2280	20	Red shale
2280	2260	20	Red shale
2260	2240	20	Red shale
2240	2220	20	Red shale
2220	2200	20	Red shale
2200	2180	20	Red shale
2180	2160	20	Red shale
2160	2140	20	Red shale
2140	2120	20	Red shale
2120	2100	20	Red shale
2100	2080	20	Red shale
2080	2060	20	Red shale
2060	2040	20	Red shale
2040	2020	20	Red shale
2020	2000	20	Red shale
2000	1980	20	Red shale
1980	1960	20	Red shale
1960	1940	20	Red shale
1940	1920	20	Red shale
1920	1900	20	Red shale
1900	1880	20	Red shale
1880	1860	20	Red shale
1860	1840	20	Red shale
1840	1820	20	Red shale
1820	1800	20	Red shale
1800	1780	20	Red shale
1780	1760	20	Red shale
1760	1740	20	Red shale
1740	1720	20	Red shale
1720	1700	20	Red shale
1700	1680	20	Red shale
1680	1660	20	Red shale
1660	1640	20	Red shale
1640	1620	20	Red shale
1620	1600	20	Red shale
1600	1580	20	Red shale
1580	1560	20	Red shale
1560	1540	20	Red shale
1540	1520	20	Red shale
1520	1500	20	Red shale
1500	1480	20	Red shale
1480	1460	20	Red shale
1460	1440	20	Red shale
1440	1420	20	Red shale
1420	1400	20	Red shale
1400	1380	20	Red shale
1380	1360	20	Red shale
1360	1340	20	Red shale
1340	1320	20	Red shale
1320	1300	20	Red shale
1300	1280	20	Red shale
1280	1260	20	Red shale
1260	1240	20	Red shale
1240	1220	20	Red shale
1220	1200	20	Red shale
1200	1180	20	Red shale
1180	1160	20	Red shale
1160	1140	20	Red shale
1140	1120	20	Red shale
1120	1100	20	Red shale
1100	1080	20	Red shale
1080	1060	20	Red shale
1060	1040	20	Red shale
1040	1020	20	Red shale
1020	1000	20	Red shale
1000	980	20	Red shale
980	960	20	Red shale
960	940	20	Red shale
940	920	20	Red shale
920	900	20	Red shale
900	880	20	Red shale
880	860	20	Red shale
860	840	20	Red shale
840	820	20	Red shale
820	800	20	Red shale
800	780	20	Red shale
780	760	20	Red shale
760	740	20	Red shale
740	720	20	Red shale
720	700	20	Red shale
700	680	20	Red shale
680	660	20	Red shale
660	640	20	Red shale
640	620	20	Red shale
620	600	20	Red shale
600	580	20	Red shale
580	560	20	Red shale
560	540	20	Red shale
540	520	20	Red shale
520	500	20	Red shale
500	480	20	Red shale
480	460	20	Red shale
460	440	20	Red shale
440	420	20	Red shale
420	400	20	Red shale
400	380	20	Red shale
380	360	20	Red shale
360	340	20	Red shale
340	320	20	Red shale
320	300	20	Red shale
300	280	20	Red shale
280	260	20	Red shale
260	240	20	Red shale
240	220	20	Red shale
220	200	20	Red shale
200	180	20	Red shale
180	160	20	Red shale
160	140	20	Red shale
140	120	20	Red shale
120	100	20	Red shale
100	80	20	Red shale
80	60	20	Red shale
60	40	20	Red shale
40	20	20	Red shale
20	0	20	Red shale

FORMATION RECORD—Continued