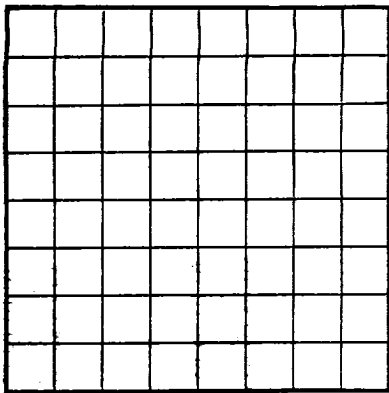


U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 03777-B
LEASE OR PERMIT TO PROSPECT _____



UNITED STATES 30-015-02805
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Highland Corporation Address 1161 S. Broadway Los Angeles, Calif.
Lessor or Tract Levers Field Forrest State New Mexico
Well No. 14 Sec. 34 T. 16S R. 29E Meridian NMPL County Eddy
Location 2310 ft. {N.} of N. Line and 2310 ft. {E.} of W. Line of Sec. 34 Elevation 3650.5
(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 W. W. Ports
Date Sept. 6, 1950 Title Agent

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

Commenced drilling June 17, 1950 Finished drilling August 6, 1950

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 2621 to 2626 No. 4, from Show gas to _____
No. 2, from 1260 to 1265 u. show No. 5, from 2255 to 2260
No. 3, from 203 2050 to 2051 No. 6, from 20 2320 to 2325

IMPORTANT WATER SANDS

No. 1, from 235 to 240 No. 3, from _____ to _____
No. 2, from _____ 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"	32	10	SH	390	Tex. Pat.				Water
5 1/2"	24	10	SH	2145	Tex. Pat.				Oil string
5"	21	10	SH	100					
4"	17	10	SH	100					
3 1/2"	13	10	SH	100					
3"	10	10	SH	100					
2 1/2"	7	10	SH	100					
2"	5	10	SH	100					
1 1/2"	3	10	SH	100					
1"	2	10	SH	100					
3/4"	1	10	SH	100					
1/2"	1	10	SH	100					
3/8"	1	10	SH	100					
1/4"	1	10	SH	100					

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
6-1/4"	320	100	Halliburton		
5"	2115	100	"		
5"					
4"					
3 1/2"					
3"					
2 1/2"					
2"					
1 1/2"					
1"					
3/4"					
1/2"					
3/8"					
1/4"					

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
	1"	Nitro	20 qts	2/6	2622-2656	2656
	1"	Dupont	20 qts	6/10	2622-2656 or 2611-2615. 8L	

TOOLS USED

Rotary tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet
Cable tools were used from 0 feet to 2616 feet, and from _____ feet to _____ feet

DATES

Sept. 6, 1950 Put to producing Aug. 21, 1950
The production for the first 24 hours was 5 barrels of fluid of which 100 % 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

Paul Morris, Driller W. D. Miller, Driller
A. C. Morris, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	2	2	Sand
2	10	8	Caliche
10	40	30	Red rock & Sand
40	50	10	Anhy. broken
50	90	40	Anhy & red rock
90	120	30	Anhy
120	195	75	Red bed & sand
195	210	15	Anhy
210	235	25	Red bed
235	240	5	Water sand
240	260	20	Sand & Redrock
260	290	30	Anhy & red rock
290	297	7	Red rock
297	307	10	Anhy
307	320	13	Red bed
320	352	32	anhy
352	435	77	Salt
435	475	40	Polyhalite
475	600	125	Salt
600	660	60	Salt & polyhalite
660	665	5	Red bed
665	812	57	Salt
812	835	23	Anhy
835	845	10	Anhy
845	875	30	Red bed

(COVER)

FORMATION RECORD—CONTINUED

2710	2675	2640	2605	2570	2535	2500	2465	2430	2395	2360	2325	2290	2255	2220	2185	2150	2115	2080	2045	2010	1975	1940	1905	1870	1835	1800	1765	1730	1695	1660	1625	1590	1555	1520	1485	1450	1415	1380	1345	1310	1275	1240	1205	1170	1135	1100	1065	1030	995	960	925	890	855	820	785	750	715	680	645	610	575	540	505	470	435	400	365	330	295	260	225	190	155	120	85	50	15	0
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UNITED STATES
DEPARTMENT OF THE INTERIOR

LOG OF OIL OR GAS WELL

2675, 2640, 2605, 2570, 2535, 2500, 2465, 2430, 2395, 2360, 2325, 2290, 2255, 2220, 2185, 2150, 2115, 2080, 2045, 2010, 1975, 1940, 1905, 1870, 1835, 1800, 1765, 1730, 1695, 1660, 1625, 1590, 1555, 1520, 1485, 1450, 1415, 1380, 1345, 1310, 1275, 1240, 1205, 1170, 1135, 1100, 1065, 1030, 995, 960, 925, 890, 855, 820, 785, 750, 715, 680, 645, 610, 575, 540, 505, 470, 435, 400, 365, 330, 295, 260, 225, 190, 155, 120, 85, 50, 15, 0

2675, 2640, 2605, 2570, 2535, 2500, 2465, 2430, 2395, 2360, 2325, 2290, 2255, 2220, 2185, 2150, 2115, 2080, 2045, 2010, 1975, 1940, 1905, 1870, 1835, 1800, 1765, 1730, 1695, 1660, 1625, 1590, 1555, 1520, 1485, 1450, 1415, 1380, 1345, 1310, 1275, 1240, 1205, 1170, 1135, 1100, 1065, 1030, 995, 960, 925, 890, 855, 820, 785, 750, 715, 680, 645, 610, 575, 540, 505, 470, 435, 400, 365, 330, 295, 260, 225, 190, 155, 120, 85, 50, 15, 0

2675, 2640, 2605, 2570, 2535, 2500, 2465, 2430, 2395, 2360, 2325, 2290, 2255, 2220, 2185, 2150, 2115, 2080, 2045, 2010, 1975, 1940, 1905, 1870, 1835, 1800, 1765, 1730, 1695, 1660, 1625, 1590, 1555, 1520, 1485, 1450, 1415, 1380, 1345, 1310, 1275, 1240, 1205, 1170, 1135, 1100, 1065, 1030, 995, 960, 925, 890, 855, 820, 785, 750, 715, 680, 645, 610, 575, 540, 505, 470, 435, 400, 365, 330, 295, 260, 225, 190, 155, 120, 85, 50, 15, 0

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 "detached" 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

FROM	TO	TOTAL FEET	FORMATION
2710	2675	35	any, red bed
2675	2640	35	any, red bed
2640	2605	35	any, red bed
2605	2570	35	any, red bed
2570	2535	35	any, red bed
2535	2500	35	any, red bed
2500	2465	35	any, red bed
2465	2430	35	any, red bed
2430	2395	35	any, red bed
2395	2360	35	any, red bed
2360	2325	35	any, red bed
2325	2290	35	any, red bed
2290	2255	35	any, red bed
2255	2220	35	any, red bed
2220	2185	35	any, red bed
2185	2150	35	any, red bed
2150	2115	35	any, red bed
2115	2080	35	any, red bed
2080	2045	35	any, red bed
2045	2010	35	any, red bed
2010	1975	35	any, red bed
1975	1940	35	any, red bed
1940	1905	35	any, red bed
1905	1870	35	any, red bed
1870	1835	35	any, red bed
1835	1800	35	any, red bed
1800	1765	35	any, red bed
1765	1730	35	any, red bed
1730	1695	35	any, red bed
1695	1660	35	any, red bed
1660	1625	35	any, red bed
1625	1590	35	any, red bed
1590	1555	35	any, red bed
1555	1520	35	any, red bed
1520	1485	35	any, red bed
1485	1450	35	any, red bed
1450	1415	35	any, red bed
1415	1380	35	any, red bed
1380	1345	35	any, red bed
1345	1310	35	any, red bed
1310	1275	35	any, red bed
1275	1240	35	any, red bed
1240	1205	35	any, red bed
1205	1170	35	any, red bed
1170	1135	35	any, red bed
1135	1100	35	any, red bed
1100	1065	35	any, red bed
1065	1030	35	any, red bed
1030	995	35	any, red bed
995	960	35	any, red bed
960	925	35	any, red bed
925	890	35	any, red bed
890	855	35	any, red bed
855	820	35	any, red bed
820	785	35	any, red bed
785	750	35	any, red bed
750	715	35	any, red bed
715	680	35	any, red bed
680	645	35	any, red bed
645	610	35	any, red bed
610	575	35	any, red bed
575	540	35	any, red bed
540	505	35	any, red bed
505	470	35	any, red bed
470	435	35	any, red bed
435	400	35	any, red bed
400	365	35	any, red bed
365	330	35	any, red bed
330	295	35	any, red bed
295	260	35	any, red bed
260	225	35	any, red bed
225	190	35	any, red bed
190	155	35	any, red bed
155	120	35	any, red bed
120	85	35	any, red bed
85	50	35	any, red bed
50	15	35	any, red bed
15	0	15	any, red bed