

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 032100
LEASE OR PERMIT TO PROSPECT

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

ESTIMATE NO. 6669

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company The Texas Company Address Box 1720, Fort Worth 1, Texas
 Lessor or Tract C.H. Lockhart Field Wildcat State New Mexico
 Well No. 2 Sec. 18 T. 22-S R. 38-E Meridian N.M.P.M. County Lea
 Location 660 ft. { N } of N Line and 660 ft. { E } of W Line of Sec. 18 Elevation 3354 (DF)
(Derive 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.

Date December 14, 1945 Signed [Signature] Title Orig. & Prod. Foreman

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

Commenced drilling May 29, 1945 Finished drilling November 30, 1945

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 5560 to 5610 Oil & Gas 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 5150 to 5235 No. 3, from to
No. 2, from to (Squeezed off) 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—	
13-3/4"	32.30	8 Ad.	Smith	2513	Baker				
9-5/8"	32.30	8 Ad.	Smith	2513	Baker				
7"	32.30	8 Ad.	Smith	2513	Baker				

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13-3/8	271'	300	Halliburton	4-	--
9-5/8	2504	1650	Halliburton	--	--
7"	6359	500	Halliburton	--	--

PLUGS AND ADAPTERS

Heaving plug—Material ----- -- Length ----- Depth set -----
Adapters—Material ----- -- Size -----

ACID ~~SHOOTING~~ RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
	Western, Inc.		2000 Gal.	10-13-45	5150	5235
	Chemical Process		2000 Gal.	10-23-45	5560	5610
	Chemical Process		5000 Gal.	10-26-45	5560	5610
	Chemical Process		3000 Gal.	12-7-45	5560	5610

TOOLS USED

Rotary tools were used from 0 feet to 7597 feet, and from _____ feet to _____ feet.

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

DATES

December 14, 1945 Put to producing December 1, 1945

The production for the first 24 hours was 40 barrels of fluid of which --- % was oil; --- % emulsion; --- % water; and --- % sediment. Plus 3% ES&W Gravity, °Bé. 41.5

If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. ----- GOR 2500 Approx.

EMPLOYEES

C. A. Wiedeman	Driller	Joe Willey	Driller
W. W. Dubose	Driller		Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	65	65	Surface sand & caliche
65	546	481	Red Bed
546	1100	554	Red Beds & shells
1100	1538	438	Anhydrite
1538	2245	707	Anhydrite & salt
2245	2263	18	Salt
2263	2460	197	Anhydrite & salt
2460	2597	137	Anhydrite
2597	3041	444	Anhydrite & sand
3041	3268	227	Anhydrite
3268	3397	129	Anhydrite & Lime
3397	3487	90	Anhydrite
3487	3507	20	Anhydrite & lime
3507	3540	33	Anhydrite
3540	3620	80	Anhydrite & sand
3620	3699	79	Anhydrite & lime
3699	3742	43	Anhydrite
3742	4440	698	Lime
4440	4449	9	Chest & lime
4449	4975	526	Lime
4975	4985	10	Sandy lime
4985	5630	645	Lime
5630	6312	682	Lime & Dolomite
6312	7540	1228	Lime, Shale & Granite Wash
7540	7597	57	Lime, Granite Wash & Granite
MEON	LO		

T. D. 7597- Plugged back to 6312 ft.
All depths measured from rotary table or 10' above

FORMATION RECORD—Continued

18-~~ground~~.

U.S. GEOLOGICAL SURVEY
DEPARTMENT OF THE INTERIOR
WASHINGTON, D.C.

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
UNITED STATES

LOG OF OIL OR GAS WELL

65 barrels of pipe line oil in 27 hours.
attempt to clean perforations and make the well flow, well flowed
perforations from 5560' to 5610', with 3000 gallons in an
swapped 65 barrels oil in 27 hours. After reworking on 12-7-45
tested dry. Bridge plug was then drilled, tubing was run, and well
After drilling the cement plug to 5280', well was pulled down and
with a cement of 100 sacks of cement.
was re-secured, using retainer at 5107', and bridge plug at 5310-5290'.
perforations at 5150', 5250', 5350'. These were all encountered in
that sand treatment had been made with water. No sand was
flowed 70 barrels oil plus 3% beam in 27 hours. After reworking
first perforations (section) to determine source of salt water. Well then
This zone was then tested with hook well barker set at 5335' (below
the well swapped 30 barrels oil plus 10 barrels salt water in 8 hours.
on 10-26-45 this section was reworked with 9000 gallons extra water
swapped 40 barrels of pipe line oil in 27 hours.
The 7" casing was then perforated from 5560' to 5610', with 300 shots and
after drilling out cement and casing with 1200', well swapped dry.
then squeezed with 75 sacks of cement, using retainer set at 5130', and
swapped 75 barrels of salt water in 16 hours. This perforated zone was
After perforating 7" casing from 5150' to 5235', with 510 shots, well
the well back to 6316'.
squeezed with 60 sacks, leaving some cement above retainer, thus plunging
A cement retainer was set in the 7" casing at 6327', and section below
cement plug and testing casing spotted 30 sacks of cement 7180-7100
The casing was cemented at 6359' with 500 sacks. After drilling

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 "redrilled" or left in the well, give the size and location. If the well has been dynamited, give date, 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

DATE	TIME	FROM	TO	TOTAL FEET	FORMATION RECORD	EMPLOYEES	TOOLS USED	DEVIATION TESTS
DST #1	5125-5230	Tool open 1 hr.	Rec. 240' oil & gas cut drlg. mud.					510' - 0°
DST #2	5560-5630	Tool open 1 hr.	Steady flow of oil & gas cut drlg. mud.					510' - 0°
DST #3	6135-6257	Tool open 1 hr.	Gas cut drlg. mud.					510' - 0°
DST #4	6267-6712	Tool open 2 hrs.	Cut drlg. mud.					510' - 0°
DST #5	6908-7018	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #6	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #7	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #8	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #9	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #10	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #11	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #12	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #13	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #14	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #15	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #16	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #17	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #18	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #19	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #20	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #21	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #22	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #23	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #24	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #25	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #26	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #27	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #28	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #29	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #30	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #31	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #32	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #33	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #34	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #35	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #36	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #37	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #38	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #39	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #40	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #41	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #42	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #43	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #44	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #45	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #46	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #47	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #48	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #49	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #50	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #51	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #52	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #53	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #54	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #55	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #56	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #57	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #58	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #59	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #60	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #61	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #62	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #63	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #64	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #65	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #66	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #67	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #68	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #69	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #70	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #71	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #72	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #73	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #74	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #75	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #76	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #77	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #78	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #79	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #80	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #81	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #82	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #83	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #84	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #85	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #86	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #87	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #88	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #89	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #90	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #91	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #92	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #93	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #94	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #95	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #96	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #97	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #98	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #99	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°
DST #100	7597	Tool open 1 hr.	Rec. 25 min. Rec.					510' - 0°