et Bureau No. 42-R355.4.
Approval expires 12-31-60.

Form 9-330

X							

U. S. LAND OFFICE Hobbs

SERIAL NUMBER LC-062368

LEASE OR PERMIT TO PROSPECT

UNITED STATES

Form 9-330

Budget Bureau No. 42-R355.4.
Approval expires 12-31-60.

U. S. LAND OFFICE Hobbs
SERIAL NUMBER LC-062368
LEASE OR PERMIT TO PROSPECT

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

X

LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company TEXACO Inc. Address P. O. Box 352, Midland, Texas
Lessor or Tract C. E. Penny NCT-4 Field Justis McKee Justis Ellenburger State New Mexico
Well No. 5 Sec. 19 T. 25-S R. 38-E Meridian NMPM County Lea
Location 990 ft. {N. / S.} of N Line and 330 ft. {E. / W.} of W Line of Section 19 Elevation 3085' (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 April 18, 1960 Title Assistant District Supt.

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

Commenced drilling February 19, 1960 Finished drilling April 7, 1960

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 7185' to 7194' No. 4, from 7239' to 7248'
No. 2, from 7204' to 7208' No. 5, from 7252' to 7264'
No. 3, from 7221' to 7234' No. 6, from to

Drilled with rotary tools and no water sands tested.

IMPORTANT WATER SANDS

No. 1, from to 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 From—	Perforated To—	Purpose
13-3/8"	48.00	8R	H-40	828'	Howco	None	None	None	Surface
9-5/8"	36.00	8R	J-55	3420'	Howco	None	None	None	Production
7"	23.00	8R	J-55	4626'	Howco	None	See	Above	Production

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13-3/8"	840'	1140	Howco		
9-5/8"	3430'	1400	Howco		
7"	7948'	400	Howco		

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 7990 feet, and from feet to feet
Cable tools were used from feet to feet, and from feet to feet

DATES

April 18, 1960 Put to producing April 13, 1960

For tests of each zone see reverse side.

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

C. R. Ward, Driller W. L. Webster, Driller
S. W. Trout, Driller , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	374	374	Redbed
374	840	466	Anhy & Red Bed
840	1462	622	Anhy
1462	2268	806	Anhy & Salt
2268	2400	132	Gyp
2400	2894	494	Anhy & Gyp
2894	3091	197	Anhy & Lime
3091	3198	107	Lime
3198	3368	170	Lime & Gyp
3368	4620	1252	Lime
4620	4710	90	Lime & Dolomite
4710	4850	140	Dolomite
4850	5218	368	Lime
5218	5532	314	Dolomite
5532	7165	1633	Lime
7165	7271	106	Lime & Sand
7271	7358	87	Lime & Shale
7358	7990	632	Sand & Shale
Total Depth	7990		
Open Hole	7948' to 7990'		

All measurements from rotary table are 11' above ground level.

Estimate No. 7103

4 - U.S.G.S.
1 - NMOCC
1 - Field
1 - Division
1 - File

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

Formation Tops

Anhy	800'
T.Salt	1032'
B.Salt	2310'
Yates	2390'
San Andres	3678'
Glorieta	4768'
Blinebry	5200'
Tubb	5800'
Simpson	6990'
McKee	7137'
Ellenburger	7665'

Deviation Record

Depth	Degrees Off
300'	1
430'	2
1031'	3-1/4
1455'	3
1575'	2
1835'	1
2500'	3/4
2770'	1/2
2985'	1-3/4
3105'	2-1/4
3331'	2-1/2
3505'	2-1/2
3670'	2
3915'	2
4620'	2
4901'	4
4950'	4
5047'	3-1/4
5120'	2-3/4
5215'	2-1/2
5395'	1-3/4
5577'	2
5705'	1-1/2
5832'	3/4
5952'	1-1/4
5989'	1-1/2
6775'	1-3/4
6970'	2-3/4
7270'	3
7370'	2-3/4
7430'	2-1/4
7490'	2
7590'	2-1/4
7730'	3
7990'	2-1/2

HISTORY OF OIL OR GAS WELL

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

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.

Spudded 17-1/2" hole 11:00 P.M., February 19, 1960. Ran 828' of 13-3/8" O.D. casing and cemented at 840' with 1140 sx. Plug at 815'. Tested O.K. Job complete 11:00 P.M., February 24, 1960. Ran 3120' of 9-5/8" O.D. casing and cemented at 3430' with 1400 sx. Plug at 3396'. Tested OK. Job complete 11:00 P.M., March 6, 1960. Ran Welex logs. Ran 4626' of 7" O.D. liner and cemented at 7948' with 400 sx. Tested OK. Job complete 10:30 P.M., April 11, 1960. Open hole from 7948' to 7990. Ran log to check cement top at 4700'. (Justis Ellenburger Zone) Acidize open hole 7948' to 7990' with 500 gals. regular 15% acid, at 4 BPM. Ran 7934' of 2-3/8" O.D. Tubing and set at 7944'.

Justis McKee Zone

Perforate 7" O.D. casing (liners) with 2 jet shots per ft from 7185 to 7194, 7204 to 7208, 7221 to 7234, 7239 to 7248, and 7252 to 7254. Acidize with 500 gals regular 15% acid, at 3 BPM. Ran 7178' of 2-3/8" O.D. tubing and set at 7183'. Ran packer leakage test. On 8 hr PT well flowed 113 BO and 1 barrel wtr. thru 22/64" choke, Gravity 42.6, GOR 1434, Test ending 4:00 P.M., April 15, 1960. Top of Pay 7185' Btm 7254', NMOCC Date April 7, 1960, TEXACO Inc. Date April 15, 1960.

Justis Ellenburger Zone

On 13 hr PT Ellenburger zone flowed 193 BO and 3 barrels water. thru 14/64" choke ending 6:00 A.M., April 14, 1960. GOR 2450, Gravity 46, Top of Pay 7948', Btm of Pay 7990', NMOCC Date April 7, 1960. TEXACO Date April 14, 1960.