



LOCATE WELL CORRECTLY

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER LC-061936-A
LEASE OR PERMIT TO PROSPECT _____UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company TEXACO Inc. Address P.O. Box 352, Midland, Texas
Lessor or Tract E.F. Ray Federal NCT-2 Field Undesignated State New Mexico
Well No. 1 Sec. 9 T. 25S R. 32E Meridian NMPM County Lea
Location 330 ft. N of S Line and 330 ft. W of E Line of Section 9 Elevation 3457 (DF)
(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 M.B. H. [Signature]Date February 21, 1961Title Assistant District
Superintendent

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

Commenced drilling February 10, 1961 Finished drilling February 16, 1961

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 4706' to 4718' No. 4, from _____ to _____
No. 2, from 4723' to 4726' No. 5, from _____ to _____
No. 3, from _____ to _____ 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		Purpose
							From—	To—	
7-5/8	24.00	8-R	H-40	318'	Howco	None	None	None	Surface
2-7/8	6.40	8-R	J-55	4840'	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
7-5/8	331'	250	Howco		
2-7/8	4849'	200	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 4850' feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

February 21, 1961 Put to producing February 20, 1961

The production for the first 24 hours was 220 barrels of fluid of which 100% was oil; 0%
emulsion; 0% water; and 0% sediment. Gravity, °Bé. 41.2

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

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

Tom Helms, Driller F. B. Holland, Driller
E. E. Thomas, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	80	80	Caliche
80	790	710	Red Bed
790	1174	384	Anhy
1174	1635	461	Salt
1635	4415	2780	Anhy & Salt
4415	4668	253	Anhy & Lime
4668	4850	182	Delaware Sand
Total Depth	4850		
PBTD	4839		
All measurements from rotary table or 8' above ground level.			<u>Formation Tops</u>
Estimate No. <u>5439</u>			Anhy 790'
4 - USGS			Top of Salt 1174'
1 - MCOCC			Btm of Salt 4410'
1 - Mrs. Rhea			Delaware Sand 4668'
1 - Pauley Pet.			
1 - Division			
1 - Field			
1 - File			

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
			<div> <div>Deviation Record</div> <div> <div>Depth</div> <div>Degrees Off</div> </div> </div>
			<div> <div>332'</div> <div>1/2</div> </div>
			<div> <div>612'</div> <div>1/2</div> </div>
			<div> <div>951'</div> <div>1/2</div> </div>
			<div> <div>1267'</div> <div>1/2</div> </div>
			<div> <div>1580'</div> <div>3/4</div> </div>
			<div> <div>1893'</div> <div>3/4</div> </div>
			<div> <div>2206'</div> <div>1-3/4</div> </div>
			<div> <div>2442'</div> <div>2-1/4</div> </div>
			<div> <div>2739'</div> <div>2</div> </div>
			<div> <div>3022'</div> <div>2</div> </div>
			<div> <div>3270'</div> <div>2</div> </div>
			<div> <div>3688'</div> <div>2</div> </div>
			<div> <div>3995'</div> <div>2</div> </div>
			<div> <div>4416'</div> <div>3</div> </div>
			<div> <div>4678'</div> <div>2-1/4</div> </div>
			<div> <div>4850'</div> <div>2-1/4</div> </div>

HISTORY OF OIL OR GAS WELL

16-43084-2 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.

E. F. Hay Federal NCT-2 Well No. 1

Spudded 9-7/8" hole 1:30 P.M. February 10, 1961. Ran 318' of 7-5/8" O.D. casing and cemented at 331' with 250 sx Regular. Plug at 306'. Cement circulated. Tested before and after drilling plug for 30 minutes with 1000 PSI. Tested O.K. Job complete 10:30 P.M. February 11, 1961.

Ran 4840' of 2-7/8" O.D. tubing (Casing) and cemented at 4849' with 200 sx Regular Gel. Plug at 4839'. Tested before and after drilling plug for 30 minutes with 1500 PSI. Tested O.K. Job complete 10:30 A.M. February 19, 1961.

Perforate 2-7/8" O.D. tubing (Casing) with 2 jet shots per ft 4706' to 4718' and 4723' to 4726'. Acidize with 250 gals 15% HCl, 250 gals Gel acid, and 250 lbs crushed naphthalene.

On 12 Hr PT well flowed thru 16/64" choke 110 SP and no water ending 7:00 A.M. February 21, 1961.

GOR - 322

Gravity - 41.2

Top of Pay - 4706'

Bot of Pay - 4726'

NMOCC date - February 16, 1961

TEXACO Inc. date - February 21, 1961