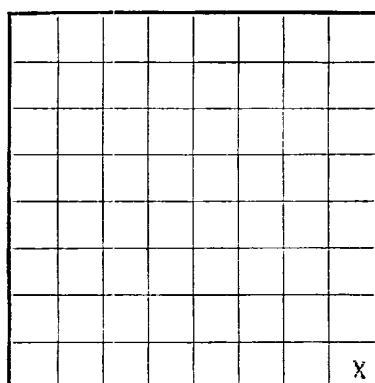


Form 9-330

30885

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER LC-057509
LEASE OR PERMIT TO PROSPECT _____UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company TEXACO Inc. Address P. O. box 728, Hobbs, New Mexico
Lessor or Tract G. L. Erwin 'D' NCT-2 Field 3 State New Mexico
Well No. 5 Sec. 35 T24-S R. 37-E Meridian NMPM County Lea
Location 330 ft. N of S Line and 330 ft. EX of E Line of Sec. 35 Elevation 3153' (D.F.)
(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.

Date September 13, 1962 Signed _____ Title Asst. District Supt.

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

Commenced drilling July 19, 1962 Finished drilling September 1, 1962

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

*North Justis (Addell)
North Justis (Blainebr)
North Justis (Fusselman)
North Justis (Montoya)

No. 1, from See Attached to _____ No. 4, from _____ to _____
No. 2, from _____ to _____ No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

Drilled with rotary tools and no water sands tested.
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—	
16 "	42.75	8-R	Spinal	238'	Howco	None	None	None	Surface
13-3/8"	48.9	8-R	H-40	91'	Howco	None	None	None	Intermediate
11-3/4"	47.0	8-R	H-40	3397'	Howco	None	See Attached		
2-7/8"	4.6	8-R	J-55	8141'	Howco	None	See Attached		
2-7/8"	4.6	8-R	J-55	7238'	Howco	None	See Attached		
2-7/8"	4.6	8-R	J-55	7240'	Howco	None	See Attached		
2-7/8"	4.6	8-R	J-55	8141'	Howco	None	See Attached		

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
16 "	250'	300	Howco		
13-3/8"		*1000 *(Both 13-3/8&11-3/4)	Howco		
11-3/4"	3500'	*1000 *(Both 13-3/8&11-3/4)	Howco		
** See below for 2-7/8" casing.					

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 _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

September 13, 1962 Put to producing September 12, 1962

The production for the first 24 hours was 124 barrels of fluid of which 98% was oil; _____% emulsion; 2% water; and _____% sediment. Gravity, °Bé. 48.0

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

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

B. L. Thomas, Driller Tom Hahn, Driller
H. W. Seeley, Driller _____, Driller

FORMATION RECORD

FROM XXXXXX	TO XXX	TOTAL FEET XXXXXXXXXX	FORMATION XXXXXXXXXX
** Size casing	Where Set	Number of Sacks	Method Used
2-7/8"	8150'	*** 1800 sx	Howco
2-7/8"	7248'	*** 1800 sx	Howco
2-7/8"	7250'	*** 1800 sx	Howco
2-7/8"	8150'	*** 1800 sx	Howco
*** Cement down all four strings with 1800 sx.			
4 - USGS 1 - AMOCC 1 - File 1 - ERF-Division 1 - Field			

(OVER)

16-43094-5

FROM—	TO—	TOTAL FEET	FORMATION
0'	130'	130'	Caliche
130'	240'	110'	Red bed
240'	560'	320'	Red bed & sand
560'	920'	360'	Red bed & anhy
920'	1189'	269'	Salt & anhy
1189'	2345'	1156'	Anhy
2345'	2823'	478'	Anhy & lime
2823'	3180'	357'	Anhy
3180'	3233'	53'	Sand & shale
3233'	3320'	87'	Sand & dolo
3320'	4293'	973'	Lime
4293'	4798'	505'	Sandy lime
4798'	5774'	976'	Lime
5774'	7222'	1448'	Dolomite
7222'	7643'	421'	Dolomite & chert
7643'	8131'	488'	Dolomite & shale
8131'	8150'	19'	Dolomite & sand
TD	8150'		
All Measurements from Rotary Table or 10" Above Ground Level.			
Deviation Record			
Formation Tops			
Depth	Degrees Off		
250'	1/2		Top of Salt
874'	3/4		Base of Salt
1438'	1		Top of Yates
2000'	1		Queen
2500'	2		San Andres
2935'	1-1/2		Alamogordo
3189'	1-1/2		Blinberry
3800'	1-1/2		Tubb
4383'	1/4		Brinkard
4820'	1/4		Devonian
5252'	1/4		Tasselman
5784'	1/4		Montoya
6143'	3/4		Slason
6867'	1-1/2		Mckee
7174'	1-3/4		Maddell
7643'	2		
8002'	2		

FORMATION RECORD—Continued

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.

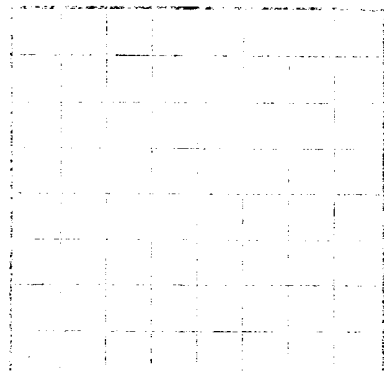
HISTORY OF OIL OR GAS WELL

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

Company _____
 Location of Well _____
 Name of Well _____
 Date of Completion _____
 Name of Driller _____
 Name of Owner _____
 Name of Lessee _____
 Name of Operator _____
 Name of Engineer _____
 Name of Geologist _____
 Name of Chemist _____
 Name of Electrician _____
 Name of Machinist _____
 Name of Welder _____
 Name of Carpenter _____
 Name of Painter _____
 Name of Plumber _____
 Name of Tinsmith _____
 Name of Blacksmith _____
 Name of Millwright _____
 Name of Joiner _____
 Name of Cabinetmaker _____
 Name of Upholsterer _____
 Name of Saddler _____
 Name of Shoemaker _____
 Name of Hatter _____
 Name of Tailor _____
 Name of Dressmaker _____
 Name of Seamstress _____
 Name of Cook _____
 Name of Baker _____
 Name of Butcher _____
 Name of Grocer _____
 Name of Druggist _____
 Name of Pharmacist _____
 Name of Physician _____
 Name of Surgeon _____
 Name of Dentist _____
 Name of Optician _____
 Name of Musician _____
 Name of Artist _____
 Name of Writer _____
 Name of Editor _____
 Name of Publisher _____
 Name of Printer _____
 Name of Bookbinder _____
 Name of Stationer _____
 Name of Sign Painter _____
 Name of Upholsterer _____
 Name of Saddler _____
 Name of Shoemaker _____
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 Name of Printer _____
 Name of Bookbinder _____
 Name of Stationer _____
 Name of Sign Painter _____

LOG OF OIL OR GAS WELL

DEPARTMENT OF THE INTERIOR
 GEOLOGICAL SURVEY



G. L. Erwin 'b' NCT-2 Well No. 5

Spudded 20" hole at 7:00 P.M. July 19, 1962. Ran 238' of 16" O.D. casing and cemented at 250' with 300 sx Regular Neat. Plug at 226'. Cement circulated. Job complete 2:45 P.M. July 20, 1962. Tested 16" O.D. casing before and after drilling plug for 30 minutes with 750 PSI. Tested Ok. Job complete 5:30 P.M. July 21, 1962.

Core No. 1 - From 2600' to 2652'. (Rec 100%). 2600'-13.5' dolo with scattered PP prop & SO. 2614-18' sand stone, NS. 2618' to 2652' dolo with scattered SO.

Core No. 2 - From 2652' to 2704'. (Rec 100%). 2652' to 2704' dolo with scattered SO with best SO 2697' to 2702'.

Core No. 3 - From 2704' to 2720' (Rec 100%). 2704' to 2706' dolo, NS. 2707' to 2709' dolo, PP poro, bleeding oil. 2709' to 2720' dolo with NS.

Core No. 4 - From 3200' to 3233' (Rec 33'). Core barrell jammed. Rec 33' of sandy dolo, NS.

Core No. 5 - From 3233' to 3286' (Rec 100%) Grey sand & grey sandy dolo with NSO.

Core No. 6 - From 3286' to 3320' (Rec 100%) tite grey and green dolo with some sandy dolo. NS.

Ran 91' of 13-3/8" O.D. casing and 3397' of 11-3/4" O.D. casing and cemented at 3500'. Cement 1st stage with 400 sx Incor Neat. Cement circulated. Cement 2nd stage with 500 sx TLW and 100 sx El Toro 35. Cement did not circulate. Plug at 3471'. Job complete at 7:30 A.M. August 8, 1962. Top of cement by temperature survey 1925'. Tested 11-3/4" O.D. casing for 30 minutes before and after drilling plug with 1000 PSI. Tested Ok. Job complete 1:30 P.M. August 9, 1962.

Core No. 7 - From 6715' to 6766'. (Rec 100%). Rec. 50' tight finely crystalline grey dolo. No bleeding sections.

Core No. 8 - From 6766' to 6817'. (Rec 100%). Tight grey dolo. No bleeding sections.

Core No. 9 - From 6817' to 6867'. (Rec 100%) Tight grey and tan dolo with fractures. PP Poro 6845' to 6851'. Bleeding very slightly.

String W (North Justis Blinebry) Ran 8141' of 2-7/8" O.D. casing and cemented at 8150'.

String X (North Justis Fusselman) Ran 7238' of 2-7/8" O.D. casing and cemented at 7248'.

String Y (North Justis Montoya) Ran 7240' of 2-7/8" O.D. casing and cemented at 7250'.

String Z (North Justis Waddell) Ran 8141' of 2-7/8" O.D. casing and cemented at 8150'.

Preceded cement with 130 bbls. 9.3 brine and 60 bbls. fresh water. Cement down all strings with 1800 cu. ft. Incor Neat mixed 1:1 with 1800 cu. ft. Lite Poz, 1 1/2 LWL. Job complete 6:10 P.M. September 4, 1962. Tested all four strings with 1500 PSI for 30 minutes from 9:00 to 9:30 A.M., September 6, 1962. Tested Ok. Job complete 9:30 A.M., September 6, 1962.

String W (North Justis Blinebry) Perforate 2-7/8" O.D. casing from 5492' to 5510', 5529' to 5539' with 2 jet shots per foot. Acidize with 500 gals NSTNEA. Rate 1.4 BPM. Frac with 10,000 gals ref oil with 1 lb. sand per gal. max pressure 4000 - no break.

(Blinebry Zone Test) on 12 hour potential test well flowed 61 BO & 1 BW thru 20/64" choke ending 11:00 P.M., September 12, 1962.

GOR - 56,590

Gravity - 48.0

Top of pay - 5492'

Bottom of pay - 5539'

USGS Date - September 1, 1962

TEXACO Inc. Date - September 12, 1962

G. L. Erwin 'b' NCT-2 Well No. 5

Page 2

String X (North Justis Fusselman) Perforate 2-7/8" O.D. casing from 6980' to 6989' with 2 jet shots per foot. Acidize with 500 gals LSTNEA. Max pressure 2500-1700#. 5 MSIP-500#. Rate 1.2 BPM. Ran sand line with sinker bar to 7235'. Pressure up and pumped into perfs at .5 BPM at 850#.

(Fusselman Zone Test) On 18-hour potential test well flowed 105 BO & 4 BW thru 18/64" choke ending 6:00 A.M., September 18, 1962.

GOR - 1,895

Gravity - 36.2

Top of pay - 6980'

Bottom of pay - 6989'

USGS Date - September 1, 1962

TEXACO Inc. Date - September 18, 1962

String Y (North Justis Montoya) Perforate 2-7/8" O.D. casing from 7118' to 7130' with 2 jet shots per foot. Acidize with 500 gals LSTNEA. Max pressure 2100-900#. 5 MSIP-100#. Rate .8 BPM. Squeezed with 20 sx Latex cement at 1000#. Plug at 7025'. Acidize with 500 gals acetic acid. Max pressure 1450-1200#. 5 MSIP 0#. Rate .27 BPM. Reacidize with 500 gals LSTNEA.

(Montoya Zone Test) On 12-hour potential test well flowed 107 BO & 4 BW thru 24/64" choke ending 7:00 P.M., September 16, 1962.

GOR - 504

Gravity - 46.0

Top of Pay - 7118'

Bottom of Pay - 7130'

USGS Date - September 1, 1962

TEXACO Inc. Date - September 16, 1962

String Z (North Justis Waddell) Perforate 2-7/8" O.D. casing from 8067' to 8075' with 2 jet shots per foot. Acidize with 500 gals LSTNEA. Max pressure 3500-3200#. Rate .2 BPM. Reacidize with 1000 gals LSTNEA.

(Waddell Zone Test) On 12-hour potential test well flowed 135 BO & 0 BW thru 18/64" choke ending 7:00 P.M., September 13, 1962.

GOR - 1,104

Gravity - 41.5

Top of Pay - 8067'

Bottom of Pay - 8075'

USGS Date - September 1, 1962

TEXACO Inc. Date - September 13, 1962