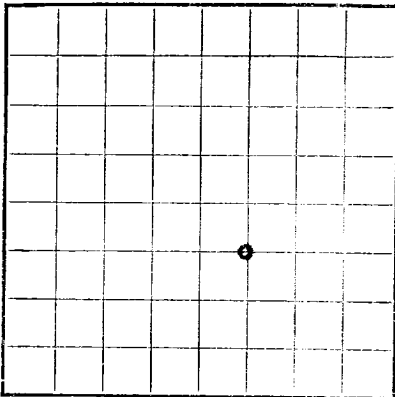


NOTED

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

LOCATE WELL CORRECTLY

AUG 23 1960

STANLEY

AUG 19 11 05 AM '60

UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

AUG 23 1960

U. S. LAND OFFICE Santa Fe, N.M.
SERIAL NUMBER LC 065249

LEASE OR PERMIT TO PROSPECT

LOG OF OIL OR GAS WELL

Company The Pure Oil Company Address P.O. Box 2532 - Hobbs, New Mexico
Lessor or Tract Federal "D" Field West Crossroads (Deyn.) State New Mexico
Well No. 2 Sec. 31 T. 2-S R. 36-S Meridian NM4 County Lea
Location 1280 ft. N. of 3 Line and 1280 ft. W. of 4 Line of Section 31 Elevation 4059' SCF
(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 _____

Date August 19, 1960Title District Superintendent

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

Commenced drilling March 7, 1960 Finished drilling July 24, 1960

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 11,266' to 12,000' 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 _____ 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—	
11-3/4"	12#	8 RT	Matl.	326'	Larkin Guide Shoe				
8-5/8"	32#, 21#	8 RT	Matl.	4099'	Larkin Guide Shoe				
5-1/2"	20#, 17#	8	Matl.	12043'	Jaker Differential Guide Shoe	12,001'	12,037'	w/ 72 shots.	

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
11-3/4"	326'	450	Pump & Plug		
8-5/8"	4099'	1328	Pump & Plug		
5-1/2"	12048'	250 *	Pump & Plug		
Cement & 50-50 Pozmix with 1/2 gal.					

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 surface feet to 12,000 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

August 19, 1960 Put to producing August 1, 1960

The production for the first 24 hours was 635* barrels of fluid of which 100% was oil; —% emulsion; —% water; and —% sediment. Gravity, °Bé 60.5 sp. gr. 60 deg.

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

Rock pressure, lbs. per sq. in. _____ * Based on 10 1/2 hours flowing test, 11/51"

EMPLOYEES, 278 bbls. Oil, for 37.5 CF/B.

F. H. Gribbs, Driller Carl Cowley, Jr., Driller
J. W. Dennis, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	739	739	Surface rock & bedbeds
739	7309	670	Bedbeds & anhydrite
2309	7295	1586	Salt & anhydrite
3995	6075	80	Anhydrite
4075	1100	25	Dolomite
4100	1111	11	Lime
4114	4257	143	Dolomite
4257	4500	243	Lime
4500	4652	152	Dolomite
4652	4835	233	Lime
4835	5093	208	Dolomite
5093	5368	275	Lime
5368	5468	100	Dolomite
5468	7608	2140	Lime
7608	7669	61	Lime & Shale
7669	8088	419	Shale
8088	8224	136	Shale & Lime
8224	8249	25	Lime
8249	8412	163	Lime & Shale
8412	10601	2189	Lime
10601	10666	65	Lime & Shale
10666	10914	248	Lime
10914	10925	11	Lime & Shale
10925	11355	430	Lime
11355	11611	256	Lime & Chert
11611	11618	7	Lime

(OVER)

16-43004-4

FROM—	TO—	TOTAL FEET	FORMATION
11518	11722	204	Time & Chart
11722	11737	15	Time & Shale
11737	11796	59	Time & Shale
11796	11853	67	Time & Shale
11853	11873	20	Time & Shale
11873	11936	63	Time & Shale
11936	11956	20	Time & Shale
11956	12050	94	Time
12050	12049	1	Cement - PB Total Depth

DESIGNATIONAL TOPS:

2110'	Antelope
2790'	Rates
4045'	San Andres
5508'	Glorieta
6155'	Clearfork
6900'	Tubb
7678'	Abbo
8903'	Wolfcamp
9373'	Artesian
10852'	Clasco
11321'	Band
11321'	Mississippian
11898	Woodford
11966	Devonian

EMPLOYEES:

11966	Devonian
11898	Woodford
11321'	Mississippian
10852'	Band
9531'	Clasco
9373'	Artesian
8903'	Wolfcamp
7678'	Abbo
6900'	Tubb
6155'	Clearfork
5508'	Glorieta
4045'	San Andres
2790'	Rates
2110'	Antelope

ROCKS GROUP

11966	Devonian
11898	Woodford
11321'	Mississippian
10852'	Band
9531'	Clasco
9373'	Artesian
8903'	Wolfcamp
7678'	Abbo
6900'	Tubb
6155'	Clearfork
5508'	Glorieta
4045'	San Andres
2790'	Rates
2110'	Antelope

EXPLORING RECORD

11966	Devonian
11898	Woodford
11321'	Mississippian
10852'	Band
9531'	Clasco
9373'	Artesian
8903'	Wolfcamp
7678'	Abbo
6900'	Tubb
6155'	Clearfork
5508'	Glorieta
4045'	San Andres
2790'	Rates
2110'	Antelope

HISTORY OF OIL OR GAS WELL

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.

Well was drilled to 11,936' and twinned of drill pipe. Unable to recover flash. Cemented fish at 5836' with 475 sacks cement with 10% sand. Top cement plug at 5200'. Drilled cement to 5342' and set whipstock. Drilled off whipstock 5342' to 12,050'. Total depth: 12,050'.

IMPORTANT WATER SAMPLES

Deviation tests were taken at various intervals from 331' to 12,050'. At no time did hole deviate over 4 degrees.

OIL OR GAS SAMPLES OR WORKS

Well was not cored and no drill stem tests were taken.

LOG OF OIL OR GAS WELL

GEOLOGICAL SURVEY

DEPARTMENT OF THE INTERIOR

UNITED STATES

NOV 1 1960

Revised through Nov 1960

U. S. GEOLOGICAL SURVEY

WATER RESOURCES DIVISION