

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 032511(c)
LEASE OR PERMIT TO PROSPECT Langlife ACW

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Anderson-Prichard Oil Corporation Address Liberty Bank Bldg., Oklahoma City, Okla.
Lessor or Tract Langlie "C" Field Langlie-Mattix State New Mexico
Well No. 2 Sec. 17 T. 25S R. 37E Meridian N.M.P.M. County Lea
Location 660 ft. XX of N Line and 1980 ft. XX of E Line of Sec. 17 Elevation 3146'
(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. L. Melton
Title District Engineer

Date December 31, 1952

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

Commenced drilling **December 8**, 19**52** Finished drilling **December 23**, 19**52**

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 2865 to 3048 (G) No. 4, from _____ to _____
 No. 2, from 3280 to 3404 No. 5, from _____ to _____
 No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____

No. 2, from _____ to _____

No. 3, 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—	
10 3/4"	32.75	8R	H-40	313	open end				Surface
7"	20.23	8R	H-40	3248	open end				Oil string

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	313	250 - circulated	Pump & plug	Water	Hole full
7"	3248	200	Pump & plug	10.2	Hole full

PLUGS AND ADAPTERS

Heaving plug—Material None Length _____ Depth set _____
Adapters—Material None Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
Hydrafract:	Used 3000 gal. gel and 3000# sand under packer set at 3223 ft. to total depth of 3404'.					

TOOLS USED

Rotary tools were used from 0 feet to 34.04 feet, and from _____ feet to _____ feet.

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

DATES

December 31, 1952 Put to producing December 30, 1952

The production for the first 24 hours was 187.92 barrels of fluid of which 99.6 % was oil; %
emulsion; % water; and 0.4 % sediment. Gravity, °Bé. 31.6

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

Rock pressure, lbs. per sq. in.

EMPLOYEES

Walter E. Lowe	, Driller	S. T. Coulter	, Driller
F. J. Hill	, Driller		, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	74	74	Surface caliche & shells.
74	320	246	Red bed & shale
320	838	518	Red bed & shells
838	1090	252	Red bed, shells, anhydrite
1090	1202	112	Anhydrite & shale
1202	2000	798	Anhydrite & salt
2000	2658	658	Anhydrite, salt, & gypsum
2658	2990	332	Anhydrite & gypsum
2990	3048	58	Lime, gypsum, sand
3048	3100	52	Lime
3100	3315	215	Lime, gypsum
3315	3404	89	Lime with sand streaks

T. Anhydrite	- 1095
T. Salt	- 1192
T. Yates	- 2865
T. Queer	- 3280

Figure 1 consists of eight line graphs arranged in a 4x2 grid. The columns are labeled 'LB' and 'TSB'. The rows are labeled '100', '1000', '10000', and '100000' from top to bottom. Each graph shows the optical density at 600 nm (OD600) on the y-axis (ranging from 0 to 1.0) against time in hours on the x-axis (ranging from 0 to 24). The graphs illustrate the growth of *E. coli* strains under different conditions, showing varying lag phases and exponential growth rates.

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