Form 9-330

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

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER LC 065478 (b)
LEASE OR PERMIT TO PROSPECT

RECEIVED

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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DEC 14 1959
O. C. C.
ARTESIA, OFFICE

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Pan American Petroleum Corporation Address Box 68 - Hobbs, New Mexico
Lessor or Tract Malco Refineries "T" Field Empire Abo State New Mexico
Well No. 2 Sec. 9 T. 18 S R. 27 E Meridian NMPM County Eddy
Location 985.25 ft. {N.} of 1 Line and ft. {E.} of Section 9 Line of Elevation 3513 RDB
(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 Original Signed by J. W. Brown
Title Area Superintendent

Date December 4, 1959

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

Commenced drilling 10-30 59, 19 Finished drilling 11-22 59, 19

OIL OR GAS SANDS OR ZONES

(*Denote gas by G*)

No. 1, from 5208 to 5750 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 From—	Perforated To—	Purpose
8-5/8	24#	8R	J-55	1492	Guide				Surface
4-1/2	9.5#	8R	J-55	5835	Guide		5208	5750	Oil String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8	1496	Circulated	Pump - Plug		
4-1/2	5835	850 sx	Pump - Plug		

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 5835 TD feet, and from feet to feet
Cable tools were used from feet to feet, and from feet to feet

DATES

November 27, 19 59 Put to producing November 25, 19 59

The production for the first 24 hours was 95 barrels of fluid of which 85 % was oil; % emulsion; 15 % acid water; and % sediment. Gravity, °Bé. 42°

If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas
Rock pressure, lbs. per sq. in.

EMPLOYEES

D. H. Hobson, Driller R. E. Palmour, Driller
E. A. Hall, Driller O. L. Jamison, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	66	66	Caliche
66	425	359	Anhy., and Redbed
425	613	188	Anhy., and Gyp.
613	837	224	Anhy.
837	959	122	Anhy., and Gyp
959	1134	175	Anhy., and Gyp. and Salt
1134	1340	206	Anhy.
1340	1457	117	Anhy., and Lime
1457	1499	42	Anhy.
1499	2380	881	Lime
2380	2493	113	Lime and Sand
2493	3562	1069	Lime
3562	3813	251	Lime and Sand
3813	4437	624	Lime
4437	4536	99	Lime and Sand
4536	4626	90	Lime
4626	4689	63	Lime and Sand
4689	4709	20	Lime and Sand, and Chert
4709	5210	501	Dolomite and Chert
5210	5835 TD	625	Lime

TOPS
San Andres 1530
Glorietta 3040
Abo Reef 5255

FOLD | MARK

[OVER]

16—43094-4

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

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.

TD 5835' PBD 5804'
Acidized with 3,000 gallons 15% regular acid. Completed 11-26-59 as an Empire Abo Field Well. On PT Well flowed 81 BO, 14 BAW, 32.2 MCFG in 24 hours on 10/64" choke, GOR 398, CFP 0 (PKR) TFP 750# Estimated allowable 62 BOPD effective 11-25-59