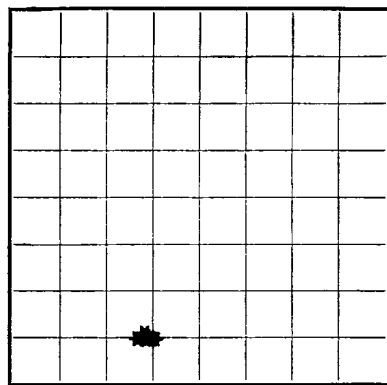


Form 9-330

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

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**RECEIVED**
APR 14 1959
U. S. GEOLOGICAL SURVEY
ALBUQUERQUE, NEW MEXICO

LOG OF OIL OR GAS WELL

Company Pan American Petroleum Corporation Address Box 68 -- Hobbs, New Mexico
Lessor or Tract Malco Refineries "H" Field Empire Abo State New Mexico
Well No. 3 Sec. 3 T18S R27E Meridian NMPM County Eddy
Location 660 ft. N. of S Line and 1980 ft. E. of W Line of Section 3 Elevation 3550 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 J. W. SNOWDate April 10, 1959 Title Field Superintendent

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

Commenced drilling February 20, 1959 Finished drilling April 7, 1959

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 5718 to 5740 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--	
8-5/8	24	8	J-55	1197	Float				Surface
5-1/2	14	8	J-55	5860	Float		5718	5740	Oil string
									W/2 shots per foot.

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8	1500	750	HOWCO		
5-1/2	5830	250	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 Surface feet to 5834 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

Completed 4-7-59, 19____ Put to producing 4-7-59, 19____The production for the first 24 hours was 94 barrels of fluid of which 100 % was oil; _____ %
emulsion; _____ % 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

Q. R. Arnold, Driller Adam Locke, Driller
R. C. Sneed, Driller H. L. Beutler, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	670	670	Red Bed and Anhy.
670	1222	552	Anhy., and Gyp
1222	1388	166	Anhy.
1388	1419	31	Anhy., Gyp
1419	1460	41	Anhy.
1460	2088	628	Anhy., Lime
2088	2210	122	Lime and Anhy.
2210	3650	1440	Lime and Sand
3650	3813	163	Lime
3813	4033	220	Lime and Sand
4033	4110	77	Lime
4110	4660	550	Lime and Chert
4660	4711	51	Lime
4711	4764	53	Lime and Chert
4764	4858	94	Lime, Chert and Sand
4858	4903	45	Chert and Dolomite
4903	4964	61	Lime and Chert
4964	4994	30	Chert, Dolomite
4994	5050	56	Lime
5050	5062	12	Chert and Dolomite
5062	5076	14	Lime
5076	5164	88	Lime and Chert
5164	5195	31	Chert and Dolomite
5195	5244	49	Lime
Cores Attached			

[OVER]

16—43094-4

SECRET

Well was drilled to a TD of 5834' and perforated 5718 - 401' w/2 shots per foot, and acidized w/500 gallons 15% regular acid. On test well flowed 94 BO, no water, 66 MCF gas 17 hrs., on 9/64" choke, IPR 600, GOR 638

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 balling.

HISTORY OF OIL OR GAS WELL

U. S. GOVERNMENT PRINTING OFFICE 16-48094-2

FROM—	TO—	TOTAL FEET	FORMATION

Core No. 1: 5244-5289 Rec 45' Gray micro xlyn dt. Sli to moderate vert x horiz. fracturing. Sli bleed oil x gas 5251 $\frac{1}{2}$ -89 containing fossils x pinpoint x vuggy porosity.

Core No. 2: 5289 - 5330 Rec 41' All light gray to tan microxlyn dt. Top 16' contains moderate frac zones x mod bleed oil x gas. Next 4' dense dt x approx 40% An. Next 4' fine to med vuggy Dt x mod bleed oil x gas x sli fracx Next 4' interbedded x olive green morl x sli trace vuggy poor porosity bleed oil x gas. Next 13' scattered fair vuggy porosity frac thruout bleed oil x gas, from vugs x fracx.

Core No. 3: 5330 - 5364 Rec 34' 5330-36 $\frac{1}{2}$ Tan to ligh gray micro xlyn Dt x scattered linear fractures. Scattered medium vugular porosity x slight moderate bleeding oil x gas. 5336 $\frac{1}{2}$ -64 tan to light gray dense Dt interbedded x gray An. very slight bleeding oil x gas 5336 $\frac{1}{2}$ -46 No show 5346-64

Core No. 4: 5364-5392 Rec 28' 5364-71 gray to light tan micro xlyn Dt x 30% An. Scattered green sh. no shows. 5371-74. Gray to light tan dt x small amount of An. Very slight scattered bleeding oil x gas. Scattered pin point porosity. 5374 - 85 gray-tan micro xlyn Dt. x 40% An. x green Sh. No shows 5385 - 92 Gray - Tan micro xlyn x Dt x 50% irregular An. No shows.

Core No. 5: 5392 - 5430 Rec 38' Gray-light tan Dt. x irregular fractures slight to air bleeding oil x gas x pinpoint to medium porosity.

Core No. 6: 5430-5469 Rec 39' Lt tan xln Dt some interbedded An. Moderate bleeding oil x gas. Pin point x vuggy porosity. Some fine vertical fracturing.

Core No. 7: 5469-5516 Cut 47' x rec 46 $\frac{1}{2}$ '. Lost 5515 $\frac{1}{2}$ -5516 Lt gry micro xln Dt x PP x small vugular porosity. Sli to moderate bleeding ~~vugularxppx~~ oil x gas. Some small vertical frac. Some An 5485-89. 5489-5516 Lt gry brn micro xln Dt x fair PP x some good vuggy porosity. Small to fair vertical fractures sli to good bleeding of oil x gas.

Core No. 8: 5516-5566 Rec 50'. Light to dark gray x brn anhydritic crystalline Dt. Sli pp to vuggy porosity, slight to good bleeding oil x gas.

Core No. 9: 5566-5612 Rec 46' Light gray x tan micro crystalline Dt x interbedded An to 5683' Scattered to good pp x vuggy porosity. fair bleeding oil x gas. Fair vertical fractures 5599-5612. Bleeding sulphur water 5602-12

Core No. 10: 5612-5661 Rec 49' 5612-19 light gray fine crystalline Dt x small to good vuggy porosity. Slight vertical fractures bleeding o x g x sulphur water. 5619-23 Dark gray to black denst DT - no shows. 5623-57 light gray micro crystalline Dt x fair to good scattered vuggy porosity x vertical fractures. slight bleed oil x gas. From 29 - 57 bleeding largely salty sulphur water. 5657-61 gray dense dt x some pp porosity x fair vert. fractures. Bleeding salty sulphur water.

Core No. 11: 5661-5711 Rec 50' 5661-65 light gray micro crystalline Dt. fine vuggy x fractured porosity. slight bleeding oil x trace sulw. 5665-70 dark gray very dense Dt. slight pp porosity bleeding sulw. 5670-78 light gray fine micro crystalline Dt., fair to small vuggy porosity thruout bleeding mostly sulw x trace oil. ~~5681~~ 5678-86 Light gry fine micro crystalline Dt fair scattered x fracture porosity. some AN inclusions. Fair bleed oil x gas x sulw. 5686-5711 Light gray micro crystalline Dt., slight pp to good vuggy porosity., slight to good bleed oil x sulw.

Core No. 12: 5711-5761 Rec 50' 5711-22 lt gray to tan micro crystalline Dt., sli vug porosity thruout sli bleeding oil x trace sulw. 5722-28 Tan micro crystalline Dt. large scattered An inclusions. pp porosity sli bleeding oil x gas x sulw. 5728-51 light tan medium to coarsw crystalline DT some large An. inclusions. Small vug porosity. vertical fractures. bleeding oil x trace water. 5751-61 gray micro crystalline Dt. x some large An. inclusions. Small vug porosity thruout sli bleed oil x water.

Core No. 13: 5761-5811 Rec 50' 5761-5770 Gry to tan micro crystalline Dt. x scattered fossil fragments, small to fair vugular porosity x slight to fair bleeding of oil x gas x water. little fracture porosity 5770-5811 dark gray dense DT x some black shale partings. No porosity x shows

[illegible]

1. The following information was obtained from the records of the Department of the Interior, Bureau of Land Management, regarding the land owned by the United States in the State of California:

1. The first step in the process of identifying a problem is to recognize that a problem exists. This is often done by comparing current performance with a desired state or goal. If there is a discrepancy, a problem is identified.

Chilomeniscus : *torridus* - a half inch or so in length, with a yellowish green color. The whole has a faint pinkish tint.

[illegible][illegible]

NEW MEXICO OIL CONSERVATION COM. SSION
Santa Fe, New Mexico

(Form C-104)
Revised 7/1/57

REQUEST FOR (OIL) - (GAS) ALLOWABLE

New Well
Recompletion

This form shall be submitted by the operator before an initial allowable will be assigned to any completed Oil or Gas well. Form C-104 is to be submitted in QUADRUPLICATE to the same District Office to which Form C-101 was sent. The allowable will be assigned effective 7:00 A.M. on date of completion or recompletion, provided this form is filed during calendar month of completion or recompletion. The completion date shall be that date in the case of an oil well when new oil is delivered into the stock tanks. Gas must be reported on 15.025 psia at 60° Fahrenheit.

Hobbs, New Mexico

4-9-59

(Place)

(Date)

WE ARE HEREBY REQUESTING AN ALLOWABLE FOR A WELL KNOWN AS:
Pan American Petr. Corp. - Malco Refineries "H"

, Well No. 3, in SE 1/4 SW 1/4,

(Company or Operator)

(Lease)

N

Sec. 3

T 18S

R 27E

NMPM,

Empire Abo

Pool

Unit Letter

Eddy

County. Date Spudded 2-20-59

Date Drilling Completed 4-7-59

Please indicate location:

Elevation 3550 RDB

Total Depth 5834

PBTD 5738

Top Oil/Gas Pay 5718

Name of Prod. Form. Abo

PRODUCING INTERVAL -

Perforations 5718 - 5740 w/2 shots per foot

Open Hole -

Depth 5830

Depth Tubing 5738

OIL WELL TEST -

Natural Prod. Test: bbls. oil, bbls water in hrs, min. Choke Size

Test After Acid or Fracture Treatment (after recovery of volume of oil equal to volume of load oil used): 94 bbls. oil, bbls water in 17 hrs, min. Choke Size 9/64"

GAS WELL TEST -

Natural Prod. Test: MCF/Day; Hours flowed Choke Size

Method of Testing (pitot, back pressure, etc.):

Test After Acid or Fracture Treatment: MCF/Day; Hours flowed

Choke Size Method of Testing:

Acid or Fracture Treatment (Give amounts of materials used, such as acid, water, oil, and sand): 500 gallon 15% regular acid

Casing Press. PKR Tubing Press. 600 Date first new oil run to tanks 4-7-59

Oil Transporter Malco Refineries Inc.

Gas Transporter

Sec. 3, T-18-S, R-27-E

Tubing, Casing and Cementing Record

Size Feet Sax

8-5/8	1486	750
5-1/2	5860	250
2-3/8	5738	

Remarks:

I hereby certify that the information given above is true and complete to the best of my knowledge.

Approved: 19

Pan American Petroleum Corporation

(Company or Operator)

Original Signed by
J. W. BROWN

By: (Signature)

Title Field Superintendent

Send Communications regarding well to:

Name J. W. Brown

Address Box 68 - Hobbs, New Mexico

OIL CONSERVATION COMMISSION

By: M. L. Armstrong

Title