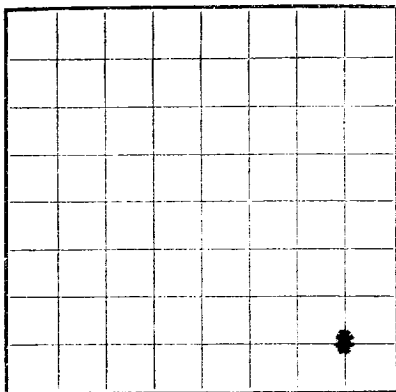


Form 9-330

U. S. LAND OFFICE
SERIAL NUMBER **LC 059365**
LEASE OR PERMIT TO PROSPECTUNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company **Pan American Petroleum Corporation** Address **Box 68 - Hobbs, New Mexico**
Lessor or Tract **Big Eddy Unit** Field **Wildcat** State **New Mexico**
Well No. **2** Sec. **19** T. **21S** R. **28E** Meridian **NMPM** County **Lea**
Location **660** ft. ^[N.] of **8** Line and **660** ft. ^[E.] of **5** Line of **Sec. 19** Elevation **3198'** 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 _____

Date **August 14, 1963** Title **Area Superintendent**

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

Commenced drilling **12-30-62**, 19____ Finished drilling **4-1-63**, 19____

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **10,706** to **10,736** 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—	
13-3/8	484	8R	H-4	460	Guide				Surface
9-5/8	32-3-40	8R	H-4, J-5	3239	"				Int.
7-5/8	26-4-33-78R	8R	H-80	11,470	"		10,706	10,736	Oil String
5-1/2	20-23	8R	H-80	835	"				Liner

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13-3/8	478	550	Pump Plug		
9-5/8	3252	1450	" "		
7-5/8	11,489	500	" "		
5-1/2	12,205	120	" "		

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
	13,000 gallons acid					

TOOLS USED

Rotary tools were used from **0** feet to **12,459** feet, and from _____ feet to _____ feet

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

DATES

_____, 19____ Put to producing **7-30-63**, 19____

The production for the first 24 hours was **28** barrels of fluid of which **50**% was oil; _____% emulsion; **50**% water; and _____% sediment. Gravity, °Bé. _____

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

Rock pressure, lbs. per sq. in. _____

EMPLOYEES - **Big West Drilling Company**_____, Driller **J. H. Johnson**, Driller_____, Driller **J. E. Wilsher**, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	109	109	Caliche, Gyp
109	440	331	Caliche, Gype, Sand
440	545	105	Anhy
545	1195	650	Anhy, Sand
1195	1762	567	Anhy
1762	2365	603	Anhy, Sand
2365	3252	887	No Returns
3252	3916	664	Lime
3916	5062	1146	Lime, Shale
5062	5668	606	Lime, Shale, Sand
5668	6159	491	Lime, Sand
6159	6773	614	Lime, Shale, Sand
6773	7080	307	Lime, Shale
7080	7205	125	Shale, Sand, Lime
7205	7241	36	Lime
7241	8205	964	Lime, Sand, Shale
8205	8574	369	Lime, Sand
8574	8603	29	Lime, Sand
8603	9898	1295	Lime
9898	10873	975	Lime, Shale
10873	10923	50	Lime, Sand
10923	10931	8	Lime, Shale, Sand

(OVER)

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
10972	10973	62	Lime
11182	11236	209	Lime, Shale
11216	11286	3	Lime, Chert
11286	11409	10	Lime
11286	11409	263	Lime, Shale
11409	11533	44	Lime, Shale
11533	11598	65	Lime
11598	11665	67	Lime, Shale
11665	11701	36	Lime, Shale, Sand
11701	11739	38	Lime, Sand
11739	11783	44	Lime
11783	11796	13	Lime, Sand
11796	11863	67	Lime
11863	11928	65	Lime, Shale, Sand
11928	11948	22	Sand
11948	12033	107	Sand, Shale, Lime
12033	12072	17	Shale
12072	12134	62	Lime, Shale
12134	12190	56	Shale, Sand
12190	12320	130	Shale, Sand
12320	12450	7	Shale
10972	10973	62	Lime
11182	11236	209	Lime, Shale
11216	11286	3	Lime, Chert
11286	11409	10	Lime
11409	11533	44	Lime, Shale
11533	11598	65	Lime
11598	11665	67	Lime, Shale
11665	11701	36	Lime, Shale, Sand
11701	11739	38	Lime, Sand
11739	11783	44	Lime
11783	11796	13	Lime, Sand
11796	11863	67	Lime
11863	11928	65	Lime, Shale, Sand
11928	11948	22	Sand
11948	12033	107	Sand, Shale, Lime
12033	12072	17	Shale
12072	12134	62	Lime, Shale
12134	12190	56	Shale, Sand
12190	12320	130	Shale, Sand
12320	12450	7	Shale
3154	3154		Delaware Sand
5736	5736		Bone Springs
6815	6815		B.S. Sand No. 1
7540	7540		B.S. Sand No. 2
8800	8800		B.S. Sand No. 3
9429	9429		Rollcamp
10,512	10,512		Canyon
10,982	10,982		Stream
11,201	11,201		Atoka
11,624	11,624		Bottom

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 balling.

Performed 12,012'-12,022' with 2 JSP. Added with 5000 gal MCA. Recovered load and 76 barrels of salt water in 13 hours. No show of oil or gas. Set CI retainer at 12,000' and squeezed perforations 12,012'-12,022' with 75 ex set. Perforated 11,934'-38'; 11,947'-52'; 11,972'-76'; 11,988-94' and acidized with 1000 gallons MCA. Swabbed 48 H₂O and 6 barrels of salt water in 7 hours. No show of oil or gas. Set CI retainer at 11,925' and squeezed perforations 11,934'-11,994' with 75 ex inferno. Perforated 11,683-88'; 11,722-35'; 11,815-23' with 2 JSP, acidized with 1000 gal MCA. Recovered load water by swab & flow of gas. On 4-23-63 gas rate of 136 MCFPD thru 16/64" choke. 177-150#. Non-commercial. Squeezed perforations 11,682'-11,823' with 250 ex cement. Left 50' cement on top of retainer set at 10,950'. Perforated intervals 10,706-10'; 10,716-20'; 10,730-26' w/2 JSP. Acidized with 13,000 gallons acid.

FD 12,459'. FSD 10,900'.