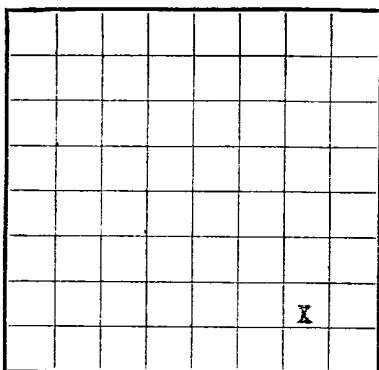


U. S. LAND OFFICE Santa FeSERIAL NUMBER SF-076337

LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

RECEIVED

## LOG OF OIL OR GAS WELL

Company Pan American Petroleum Corporation Address Box 487, Farmington, New MexicoLessor or Tract Rochelle Gas Unit Field Blanco-Pictured Cliffs State New MexicoWell No. 1 Sec. 4 T. 29N R. 9W Meridian N.M.P.M. County San JuanLocation 880 ft. N. of S Line and 870 ft. E. of E Line of Section 4 Elevation 5612  
(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

R. M. Bauer, Jr.

Date July 9, 1959Title Area Engineer

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

Commenced drilling June 7, 1959 Finished drilling June 11, 1959

## OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 2232 to 2232 (S) 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"	225	11	API	160 sacks of cement	B. J. Service	1 Plug			
4-1/2"	234.5	11	API	675 sacks of cement	B. J. Service	2 Plug			

## MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	225	160 sacks of cement	B. J. Service		1 Plug
4-1/2"	234.5	675 sacks of cement	B. J. Service		2 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 \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

Cable tools were used from 0 feet to 2345 feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

## DATES

Completed as shut in gas well Blanco Pictured Cliffs Field June 19, 1959.

Put to producing Shut in for pipeline connection

Preliminary Test 1236 MCHPD June 19 59

The production for the first 24 hours was \_\_\_\_\_ barrels of fluid of which \_\_\_\_\_ % was oil; \_\_\_\_\_ % emulsion; \_\_\_\_\_ % 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. 1,236,0001034 EMPLOYED casing pressure 14 days.

\_\_\_\_\_, Driller \_\_\_\_\_, Driller

R. D. Davis \_\_\_\_\_, Driller C. R. Isgar \_\_\_\_\_, Driller

Fred Huffman \_\_\_\_\_, Driller K. Teague \_\_\_\_\_, Driller

## FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	225	225	Surface sands and shales.
225	1100	875	Animas sands and shales.
1100	1200	100	Ojo Alamo sands.
1200	2010	810	Farmington-Kirtland shales and sands.
2010	2234	224	Fruitland sands, shales and coals.
2234	2345	111	Pictured Cliffs sands and shales.

(Tops from Electric Log)

### FORMATION RECORD—Continued

[illegible]

### 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.

Rochelle Gas Unit Well No. 1 was spudded on June 7, 1959 and on June 8, 1959 8-5/8" casing was set at 225' with 150 sacks of cement containing 2% calcium chloride. After waiting on cement, casing and water shut off were tested with 400 pounds pressure for thirty minutes which held with no drop in pressure. Reduced hole to 7-7/8" at 225' and resumed drilling operations.

On June 11, 1959 4-1/2" casing was set at 2345 feet and cemented with 200 sacks of gel cement mixed with 1-1/2 pounds tur plug/sack, followed by 75 sacks cement. Cement was circulated. After waiting on cement, tested casing with 3000 psi for 20 minutes and no indicated drop in pressure. Resumed completion operations.

On June 18, 1959, spotted 200 gallons and cleaned light down well bore and perforated interval 2238-2278 with two shots per foot. Sand-water fraced with 42,000 gallons water mixed with 50,000 pounds sand at an average input rate of 39 barrels per minute and a breakdown pressure of 2150 psi. 1-1/4" tubing set at 2246 feet. Completed June 19, 1959 as a shut-in gas well Blanco Platted Cliffs Field. On preliminary test flowed 1236 MCF per day pitot tube measurement.

abstracts have been determined from an available record.

The information in our reference is a complete and correct record of the man and his work for the past

SECTION 11 OF THE ACT OF 1870

000000

Б.01.01.01	С.01.01	В.01.01	Д.01.01	Е.01.01	Ж.01.01	З.01.01
01.01.01.01	01.01.01.02	01.01.01.03	01.01.01.04	01.01.01.05	01.01.01.06	01.01.01.07

19620. G. L. LUGG, *University of California, Berkeley, California*. *Effect of temperature on the rate of growth of the bacterium *Escherichia coli**. *Journal of Bacteriology*, 1962, 75, 1-10. 10 pp., 1 fig., 1 table. 19 refs.

Combina il tuo indirizzo e-mail con un indirizzo IP

COOYLE MEET COMMERCE

FOG OF OT OK SVS METT

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

**Table 1** Descriptive statistics of variables used in the study

GEOLOGICAL SURVEY

DEPARTMENT OF THE INTERIOR

100-443886-100

FORMER OR PRESENT OR PROPOSED EMPLOYERS

SECRET DOCUMENT - SECURITY INFORMATION

10-10-1964

$$\frac{1}{2}(\partial_\mu \partial_\mu)^2 \psi = \frac{1}{2}(\partial_\mu \partial_\mu)^2 \psi$$

NEW MEXICO OIL CONSERVATION COMMISSION  
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.

Farmington, New Mexico June 26, 1959  
(Place) (Date)

WE ARE HEREBY REQUESTING AN ALLOWABLE FOR A WELL KNOWN AS: Pan American Petroleum Corporation  
(Company or Operator) Roshelle Gas Unit (Lease), Well No. 1, in SE  $\frac{1}{4}$  SE  $\frac{1}{4}$ ,  
Sec. 4, T. 29N, R. 9W, NMPM., Blanco Pictured Cliffs Pool

San Juan

County. Date Spudded June 7, 1959 Date Drilling Completed June 11, 1959  
Elevation 5638 GL Total Depth 2345 PBD 2310

Please indicate location:

Top ~~Gas~~ Pay 2234 Name of Prod. Form. Pictured Cliffs

PRODUCING INTERVAL -

Perforations 2238-2292 Two shots per foot

Open Hole \_\_\_\_\_ Depth \_\_\_\_\_ Casing Shoe 2345 Depth \_\_\_\_\_ Tubing 2246

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): \_\_\_\_\_ bbls. oil, \_\_\_\_\_ bbls water in \_\_\_\_\_ hrs, \_\_\_\_\_ min. Choke Size \_\_\_\_\_

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: 1236 MCF/Day; Hours flowed 22

Choke Size \_\_\_\_\_ Method of Testing: Pitot Tube Measurement

Acid or Fracture Treatment (Give amounts of materials used, such as acid, water, oil, and sand): Sand water fracked 42,000 gallons water and 50,000 pounds sand.  
Casing \_\_\_\_\_ Tubing \_\_\_\_\_ Date first new \_\_\_\_\_  
Press. \_\_\_\_\_ Press. \_\_\_\_\_ oil run to tanks \_\_\_\_\_

Oil Transporter \_\_\_\_\_

Gas Transporter El Paso Natural Gas Company

Remarks: Completed as a shut in gas well June 19, 1959. Awaiting pipeline connection.

Includes 2345' 4-1/2" OD, 4.090" ID, 9.5 pound casing. 2246 feet 1-1/4" OD, 1.66 pound tubing.

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

Approved JUN 30 1959, 19\_\_\_\_

Pan American Petroleum Corporation

(Company or Operator)

ORIGINAL SIGNED BY

By: R. M. Bauer, Jr.  
(Signature)

Title Area Engineer

Send Communications regarding well to:

Name Pan American Petroleum Corporation

Address Box 487, Farmington, New Mexico

Attn: L. O. Spear, Jr.

OIL CONSERVATION COMMISSION

Original Signed By

By: A. R. KENDRICK

Title PETROLEUM ENGINEER DIST. NO. 3

RECEIVED

JUN 30 1959

OIL CON. COM.  
DIST. 3

INVESTIGATION COMMISSION		
ACTED DISTRICT OFFICE		
Index Reported	4	
EXPLOSION		
Property	1	
Damage	1	
Personnel	1	
State of Affairs	1	
U.S. S.	1	
Disposition		
File	1	✓