

NEW MEXICO OIL CONSERVATION COMMISSION
MULTI-POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 12-1-55

Pool Basin		Formation Dakota		County San Juan	
Initial X		Annual		Special	
Company PAN AMERICAN PETROLEUM CORP.		Lease Callegos Canyon Unit		Well No. 190	
Unit C	Sec. 32	Twp. 28N	Range 12W	Purchaser	
Casing 5-1/2	Wt. 15.5	I.D.	Set at 5922	Perf. 5752-64	To 5802-30
Tubing 2-3/8	Wt. 4.7	I.D. 1.995	Set at 5794	Perf. 5757	To 5763
Gas Pay:	From 5752	To 5830	L 5791	G .700	GL 4054
Producing Through:		Casing	Tubing X	Type Well — Single — Braden head — G.G. or G.O. Dual Single	
Date of Completion 10-19-65		Packer None		Reservoir Temp.	

OBSERVED DATA

Tested Through:		Prover ☐	Choke ☒	Meter ☐	Type of Taps	
Line		FLOW DATA			TUBING DATA	CASING DATA
No.	XXXXXX (XXX) Size	(Choke) (Orifice) Size	Press. psig.	Diff. h _w	Temp. °F.	DURATION OF FLOW HR.
SI	8 Days					
1.	2 Inch	.750	804			
2.						
3.						
4.						
5.						

FLOW CALCULATIONS

No.	Coefficient (24 Hour)	$\sqrt{h_w p_f}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	12.3650		816	1.0000	.9258	1.1100	10,369
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl. Specific Gravity Separator Gas _____
 Gravity of Liquid Hydrocarbons _____ deg. Specific Gravity Flowing Fluid _____
 F_c _____ (1-e^{-S}) _____ P_c **2002** P_c² **4,008,004**

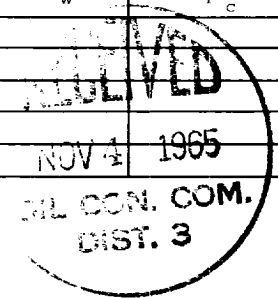
No.	$\frac{P_w}{P_t}$ psia	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-S})	P _w ²	P _c ² - P _w ²	Cal P _w	$\frac{P_w}{P_c}$
1.						2,292,196	1,715,808		
2.									
3.									
4.									
5.									

ABSOLUTE POTENTIAL: **19,590** _____ MCFPD; n **.75** _____

COMPANY **PAN AMERICAN PETROLEUM CORPORATION** _____ WITNESSED _____

ADDRESS **Box 480, Farmington, New Mexico** _____ COMPANY _____

AGENT AND TITLE **G. W. Eaton, Jr., Area Engineer** _____ Original Signed By **G. W. EATON, JR.** _____



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424

5. LEASE DESIGNATION AND SERIAL NO.

SF 079346-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Gallegos Canyon Unit

9. WELL NO.

190

10. FIELD AND POOL, OR WILDCAT

Basin-Dakota

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

Sec 32, T28N, R12W

12. COUNTY OR PARISH 13. STATE

San Juan

New Mexico

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1.

OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR

Pan American Petroleum Corporation

3. ADDRESS OF OPERATOR

Security Life Building, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface

1190 FNL, 1640 FWL Sec 32 NENW

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

5584 RDB, 5572 GR

16.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

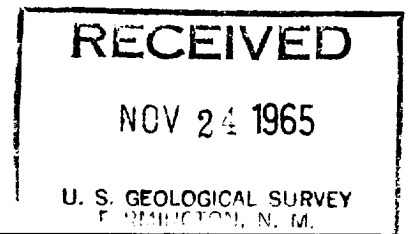
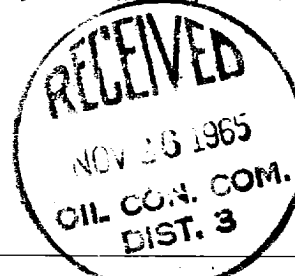
ABANDONMENT*

(Other) Supplementary History

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Drilled to 384. cemented 8-5/8" 24# J-55 ST & C Casing at 364 with 250 sacks Type "C" with 2% CaCl.
Drilled and cored to 5922. Set 5-1/2" 15.5#, 14# ST & C J-55 casing at 5922 with stage tool at 4110. Cemented first stage with 250 sacks type "C" with 6% gel and 2 lbs tuf plug/sack, followed by 100 sacks type "C" neat. Cemented second stage with 800 sacks type "C" with 6% gel and 2 lbs tuf plug/sack.
Displaced hole with water containing .8% KCl with 2-1/2 lbs FR-8 per 1000 gal. spotted 500 gal 7-1/2% acid. Perf 5802-5830 with 3 shots/ft. Fraced with 51,090 gal water treated as above with 40,000# 20-40 sand and 10,000# 10-20 sand. Breakdown pressure 1900, Treating pressure 2600 at 66 Bbls/min. Perforated 5752-64 with 4 shots/ft. Fraced with 24,840 gal water treated as above with 25,000# 20-40 sand and 5,000# 10-20 sand. Breakdown pressure 2100. Treating pressure 2650 at 64 Bbls/min. Drilled Bridge plug at 5785 and cleaned out to 5887. On 10/27/65 well flowed at the rate of 10,369 MCF/Day on a 3/4" choke.



18. I hereby certify that the foregoing is true and correct

D. I. TOLLEFSON

SIGNED

D. I. Tollefson

TITLE

Administrative Assistant

DATE

11/17/65

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

Instructions

General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 17: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

U.S. GOVERNMENT PRINTING OFFICE: 1963-O-685229

887-851

Core Description

Core #1: 5740-5800, Cut 60'. Recovered 60'.

- 5740-49. SN w/scattered interbedded SN. Black w/some vertical frac.
- 5749-51-1/2. SN w/scattered SH inclusions. Light gray w/some vertical frac.
- 5751-1/2-52. SH, Black.
- 5752-54. SN, SH, Black, Light gray.
- 5754-60. SN w/some interbedded SH. Light gray w/some vertical frac.
- 5760-60-1/2. SH, Black.
- 5760-1/2-65-1/2. SN w/scattered SH inclusions. Light gray.
- 5765-1/2-72-1/2. SH, slightly SNY, Black.
- 5772-1/2-75-1/2. SN, SH, Dark Gray.
- 5775-1/2-78. SH, Some SN, Black.
- 5778-83. SN, SH, Dark Gray.
- 5783-95. SH, Black w/some vertical and horizontal frac.
- 5795-5800. SH w/interbedded coal w/some vertical, horizontal frac.

Core #2: 5800-57. Cut 57'. Recovered 56'.

- 5800-08. SN, SH, Dark Gray Black. Some odor, vertical frac.
- 5808-16-1/2. SN, Light Gray, Pinpoint POR w/slight friable vertical frac.
- 5816-1/2-18. SN, SH, Scattered interbedded SH, black, vertical frac.
- 5818-20. SN, SH Modules. Light Gray, slightly friable.
- 5820-21. SN, SH, interbedded SH. Light Gray-Black.
- 5821-25-1/2. SN, Light Gray.
- 5825-1/2-32. SN, SH, interbedded SH. Dark Gray-black, some vertical frac.
- 5832-33. SN, Light Gray.
- 5833-34. SH, Black.
- 5834-35. SN, SH, Dark Gray, Pinpoint POR, slightly friable.
- 5835-45-1/2. SN, SH, interbedded SH. Dark Gray-black.
- 5845-1/2-48-1/2. SN, Light Gray. Pinpoint POR.
- 5848-1/2-50. SN, SH, interbedded SH. Dark Gray-black.
- 5850-55. SH, Black.
- 5855-56. Coal.