

**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 XX		Annual		Date of Test 3-9-65	
Company PAN AMERICAN PETROLEUM CORP.		Lease Gutierrez Gas Unit "B"		Well No. 1	
Unit B	Sec. 4	Twp. 29N	Range 9W	Purchaser	
Casing 4-1/2	Wt. 10.5	I.D. 4.052	Set at 6799	Perf. 6626-42	To 6723-51
Tubing 2-3/8	Wt. 4.7	I.D. 1.995	Set at 6623	Perf. 6592	To 6598
Gas Pay:	From 6626	To 6751	L 6689	G .700	GL 4682
				Bar. Press. 12	
Producing Through:		Casing	Tubing X	Type Well — Single — Braden head — G.G. or G.O. Dual Single	
Date of Completion 2-28-65		Packer None		Reservoir Temp.	

OBSERVED DATA

Tested Through:		Prover <input type="checkbox"/>	Choke <input checked="" type="checkbox"/>	Meter <input type="checkbox"/>	Type of Taps			
FLOW DATA					TUBING DATA	CASING DATA	DURATION OF FLOW HR.	
No.	(Prover) (Line) Size	(Choke) (Line) Size	Press. psig.	Diff. h _w	Temp. °F.	Press. psig.		Temp. °F.
SI	9 Days					2121		
1.	2 Inch	.750	372			372	60° est.	895
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-MCF P D @ 15.025 psia
1.	12.3650		384	1.000	.9258	1.048	4607
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl. Specific Gravity Separator _____

Gravity of Liquid Hydrocarbons _____ deg. Specific Gravity Flowing Fluid _____

F_c _____ (1-e^{-S}) _____ P_c **2133** P_c² **4,549,689**

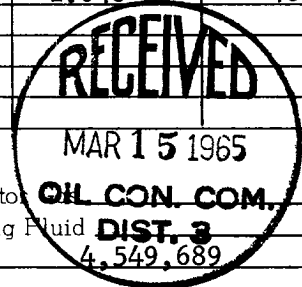
No.	$\frac{P_w}{P_t}$ psia	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-S})	P _w ²	P _c ² - P _w ²	Cal P _w	$\frac{P_w}{P_c}$
1.						822,649	3,727,040		
2.									
3.									
4.									
5.									

ABSOLUTE POTENTIAL: **5350** MCFPD; n **.75**

COMPANY **PAN AMERICAN PETROLEUM CORPORATION** WITNESSED _____

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

AGENT AND TITLE **F. L. Nabors, District Engineer** By: **E. W. Fossell**



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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

5a. Indicate Type of Lease	
State <input type="checkbox"/>	Fee <input checked="" type="checkbox"/>
5. State Oil & Gas Lease No.	

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 -" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER-	7. Unit Agreement Name
2. Name of Operator PAN AMERICAN PETROLEUM CORPORATION	8. Farm or Lease Name Gutierrez Gas Com "B"
3. Address of Operator 501 Airport Drive, Farmington, New Mexico 87401	9. Well No. 1
4. Location of Well UNIT LETTER B 1050 FEET FROM THE North LINE AND 1846 FEET FROM THE East LINE, SECTION 4 TOWNSHIP 29N RANGE 9W NMPM.	10. Field and Pool, or Wildcat Basin Dakota
15. Elevation (Show whether DF, RT, GR, etc.) 5626' RDB	12. County San Juan

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data	
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK <input checked="" type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input type="checkbox"/>
OTHER <input type="checkbox"/>	OTHER <input type="checkbox"/>
PLUG AND ABANDON <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
CHANGE PLANS <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

We plan to restimulate the subject well with 80,000 gallons water containing 0.8% KCl and 7 pounds Gel per 1000 gallons; 60,000 pounds 20-40, 8,500 pounds 10-20 and 1,500 pounds 8-12 glass beads. Latest average production rate was 242 MCFD during June 1970.



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

SIGNED ORIGINAL SIGNED BY D. A. WATKINS TITLE Area Engineer DATE 9-18-70

APPROVED BY [Signature] TITLE SUPERVISOR DIST. #3 DATE SEP 22 1970
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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

5a. Indicate Type of Lease State <input type="checkbox"/> Fee <input checked="" type="checkbox"/>
5. State Oil & Gas Lease No.
7. Unit Agreement Name
8. Farm or Lease Name Gutierrez Gas Com "B"
9. Well No. 1
10. Field and Pool, or Wildcat Basin Dakota
12. County San Juan

SUNDRY NOTICES AND REPORTS ON WELLS
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2. Name of Operator PAN AMERICAN PETROLEUM CORPORATION
3. Address of Operator 501 Airport Drive, Farmington, New Mexico 87401
4. Location of Well UNIT LETTER B 1050 FEET FROM THE North LINE AND 1846 FEET FROM THE East LINE, SECTION 4 TOWNSHIP 29N RANGE 9W NMPM.
15. Elevation (Show whether DF, RT, GR, etc.) 5626' RDB

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

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK <input type="checkbox"/>	REMEDIAL WORK <input checked="" type="checkbox"/>
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PULL OR ALTER CASING <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input type="checkbox"/>
OTHER <input type="checkbox"/>	OTHER <input type="checkbox"/>
PLUG AND ABANDON <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
CHANGE PLANS <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

TD 6800'. PBD 6762'.

Killed the well with 200 barrels of water treated with 0.8% KCl. Tagged sand at 6753'. Ran tubing and Baker Full Bore Packer and set at 6520'. Displaced hole with water containing 0.8% KCl and 7 pounds Gel per 1000 gallons. Pumped 10,000 gallons water containing 0.8% KCl and 20 pounds J-2 per 1000 gallons. Sand-water frac with 84,294 gallons water containing 0.8% KCl and 7 pounds J-2 per 1000 gallons. Used 40,000 pounds 20-40 sand, 38,500 pounds 10-20 sand, 1,500 pounds 8-12 glass beads. No breakdown pressure. Treating pressures 3400-3000-3250. Average injection rate 48.1 BPM. Tagged sand at 6748' and cleaned out to PBD.



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

ORIGINAL SIGNED BY
SIGNED _____ TITLE **Area Engineer** DATE **January 12, 1971**

Original Signed by **Emery C. Arnold** SUPERVISOR DIST. **3** DATE **JAN 13 1971**

CONDITIONS OF APPROVAL, IF ANY:

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-104
Revised 10-01-79
Format 06-01-83
Page 1

REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Operator Amoco Production Company	
Address 501 Airport Drive Farmington, NM 87401	
Reason(s) for filing (Check proper box)	
<input type="checkbox"/> New Well	Change in Transporter at:
<input type="checkbox"/> Recompletion	<input type="checkbox"/> Oil
<input type="checkbox"/> Change in Ownership	<input type="checkbox"/> Casinghead Gas
	<input checked="" type="checkbox"/> Dry Gas
	<input checked="" type="checkbox"/> Condensate
Other (Please explain)	

If change of ownership give name
and address of previous owner

II. DESCRIPTION OF WELL AND LEASE

Lease Name Gutierrez Gas Com B	Well No. 1	Pool Name, including Formation Basin Dakota	Kind of Lease State, Federal or Fee <u>Fee</u>	Lease No.
Location				
Unit Letter <u>B</u> : <u>1050</u> Feet From The <u>North</u> Line and <u>1846</u> Feet From The <u>East</u>				
Line of Section <u>4</u> Township <u>29N</u> Range <u>9W</u> , NMPM, <u>San Juan</u> County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Permian Corp.	P. O. Box 1702 Farmington, NM 87499
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
El Paso Natural Gas Company	P. O. Box 990 Farmington, NM 87401
If well produces oil or liquids, give location of tanks.	Unit Sec. Twp. Rge. Is gas actually connected? When
<u>B</u> <u>4</u> <u>29N</u> <u>9W</u>	

If this production is commingled with that from any other lease or pool, give commingling order number:

NOTE: Complete Parts IV and V on reverse side if necessary.

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given is true and complete to the best of my knowledge and belief.

BDS
Shaw

(Signature)

Admin. Supervisor

(Title)

1-2-85

RECEIVED
JAN 03 1985
OIL CON. DIV.
DIST. 3

OIL CONSERVATION DIVISION

APPROVED JAN 2 1985
BY Charles E. Shaw
TITLE DEPUTY OIL & GAS INSPECTOR, DIST. #3

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.

Separate Forms C-104 must be filed for each pool in multiply completed wells.