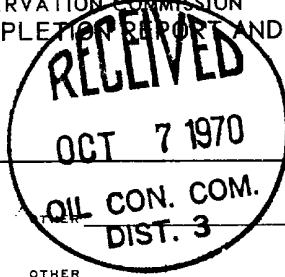


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LAND OFFICE	
OPERATOR	1

Form C-105  
Revised 1-1-65

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL COMPLETION OR RECOMPLETION REPORT AND LOG



5a. Indicate Type of Lease  
State ☐ Fee ☒  
5. State Oil & Gas Lease No.

1a. TYPE OF WELL

OIL WELL ☐ GAS WELL ☒ DRY ☐  
b. TYPE OF COMPLETION  
NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER ☐

7. Unit Agreement Name

8. Farm or Lease Name

Gutierrez Gas Com "C"

9. Well No.

1

10. Field and Pool, or Wildcat

Blanco Pictured Cliffs

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 A LOCATED 800 FEET FROM THE North LINE AND 960 FEET FROM

THE East LINE OF SEC. 4 TWP. 29N RGE. 9W NMPM San Juan

15. Date Spudded 16. Date T.D. Reached 17. Date Compl. (Ready to Prod.) 18. Elevations (DF, RKB, RT, GR, etc.) 19. Elev. Casinghead

9-6-70 9-9-70 9-21-70 GR 5634', KB 5647' 5634'

20. Total Depth 21. Plug Back T.D. 22. If Multiple Compl., How Many 23. Intervals Drilled By Rotary Tools Cable Tools

2432' 2382' 0-TD

24. Producing Interval(s), of this completion - Top, Bottom, Name

2273-88', Pictured Cliffs

25. Was Directional Survey Made

No

26. Type Electric and Other Logs Run

Thru casing Gamma Ray Neutron

27. Was Well Cored

No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24	214'	12-1/4"	200 sacks	0
4-1/2"	10.5	2420'	6-3/4"	500 sacks	0

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					1-1/4"	2275'	

31. Perforation Record (Interval, size and number)

2273-88' x 2 SPF

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
2273-88'	Frac with 20,580 gal. water and 30,000 lb. 10-20 sand.

33. PRODUCTION

Date First Production Production Method (Flowing, gas lift, pumping - Size and type pump) Well Status (Prod. or Shut-in)

Flowing

Shut In

Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
9-28-70	3	3/4"					
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)	
18 psig	66 psig		-	356 (AOF 365)	-	-	

34. Disposition of Gas (Sold, used for fuel, vented, etc.)

To be sold to El Paso Natural Gas Co.

Test Witnessed By

35. List of Attachments

36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

ORIGINAL SIGNED BY

D. A. WATMAN

SIGNED

TITLE

Area Engineer

DATE

10-6-70

This form is to be filled with the appropriate District Office of the Commission, not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, the vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filled in quintuplicate except on state land, where six copies are required. See Rule 1105.

**Northwestern New Mexico**

**Northwestern New Mexico**

FORMATION RECORD (Attach additional sheets if necessary)

TABULATION OF DEVIATION TESTS  
GUTIERREZ GAS COM "C" NO. 1  
PAN AMERICAN PETROLEUM CORPORATION

<u>DEPTH</u>	<u>DEVIATION</u>
218'	0°
800'	1/2°
1036'	3/4°
2028'	1°
2432'	Misrun



A F F I D A V I T

THIS IS TO CERTIFY that to the best of my knowledge the above tabulation details the deviation test taken on PAN AMERICAN PETROLEUM CORPORATION'S Gutierrez Gas Com "C" No. 1, Blanco Pictured Cliffs Field, located in the NE/4 NE/4 (800' FNL and 960' FEL) Section 4, T-29-N, R-9-W, San Juan County, New Mexico.

Signed *D. A. Wayhan*  
Title Area Engineer

THE STATE OF NEW MEXICO)  
                                  ) SS.  
COUNTY OF SAN JUAN        )

BEFORE ME, the undersigned authority, on this day personally appeared D. A. Wayhan known to me to be Area Engineer for Pan American Petroleum Corporation and to be the person whose name is subscribed to the above statement, who, being by me duly sworn on oath, states that he has knowledge of the facts stated herein and that said statement is true and correct.

SUBSCRIBED AND SWORN TO before me, a Notary Public in and for said County and State this 6th day of October, 1970.

*Nancy York*  
Notary Public

My Commission Expires: 8-6-76

NEW MEXICO OIL CONSERVATION COMMISSION  
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122  
Revised 9-1-65

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special					Test Date <b>9-28-70</b>	
Company <b>PAN AMERICAN PETROLEUM CORP.</b>				Connection <b>None</b>		
Pool <b>Blanco</b>				Formation <b>Pictured Cliffs</b>		Unit
Completion Date <b>9-21-70</b>		Total Depth <b>2432</b>		Plug Back TD <b>2382</b>		Elevation / KDB <b>GL 5634/5647</b>
Farm or Lease Name <b>Gutierrez Gas Com "C"</b>						Well No. <b>1</b>
Csg. Size <b>4.500</b>	Wt. <b>9.5</b>	d <b>4.090</b>	Set At <b>2420</b>	Perforations: From <b>2273</b> To <b>2280</b>		Unit Sec. Twp. Rge. <b>A 4 29 9</b>
Tbg. Size <b>1.660</b>	Wt. <b>2.30</b>	d <b>1.380</b>	Set At <b>2275</b>	Perforations: From <b>Open End</b> To		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple <b>Single</b>				Packer Set At <b>None</b>		County <b>San Juan</b>
Producing Thru <b>Tubing</b>		Reservoir Temp. °F <b>90° @ TD</b>		Mean Annual Temp. °F <b>60° Est.</b>		Baro. Press. - P <sub>a</sub> <b>12 PSIA Est.</b>
State <b>New Mexico</b>						
L <b>2281</b>	H <b>2281</b>	Gg <b>.650 Est.</b>	% CO <sub>2</sub>	% N <sub>2</sub>	% H <sub>2</sub> S	Prover
Meter Run		Taps				

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
NO.	Line Size	X Choke	Press. p.s.i.g.	Diff. h <sub>w</sub>	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI	<b>7 Days</b>					<b>457</b>		<b>457</b>		
1.	<b>2 Inch</b>	<b>.750</b>	<b>18</b>			<b>18</b>	<b>60° Est.</b>	<b>66</b>		<b>3 Hr.</b>
2.										
3.										
4.										
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P <sub>m</sub>	Flow Temp. Factor F <sub>t</sub>	Gravity Factor F <sub>g</sub>	Super Compress. Factor, F <sub>pv</sub>	Rate of Flow Q, Mcfd
1	<b>12.3650</b>		<b>30</b>	<b>1.000</b>	<b>.9608</b>	<b>1.000</b>	<b>356</b>
2.							
3.							
4.							
5.							

NO.	P <sub>r</sub>	Temp. °R	T <sub>r</sub>	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons	Deg.
2.					Specific Gravity Separator Gas	XXXXXXX
3.					Specific Gravity Flowing Fluid	XXXXXXX
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

P <sub>c</sub> <b>469</b>	P <sub>c</sub> <sup>2</sup> <b>219,961</b>	
NO	P <sub>i</sub> <sup>2</sup>	P <sub>w</sub> <sup>2</sup>
1	<b>78</b>	<b>6084</b>
2		
3		
4		
5		

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0284$$

$$AOF = Q \left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 365$$

$$(2) \left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0240$$

Absolute Open Flow <b>365</b> Mcfd @ 15.025	Angle of Slope $\theta$	Slope, n <b>.85</b>
Remarks:		

Approved By Commission: <b>OCT 7 1970</b>	Conducted By: <b>B. D. Dukas</b>	Calculated By: <b>E. R. Hirst</b>	Checked By: <b>D. A. Wayhan</b>
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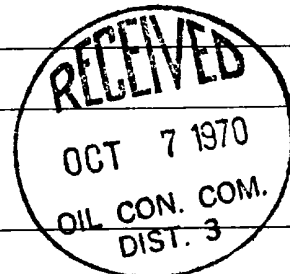
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NEW MEXICO OIL CONSERVATION COMMISSION  
REQUEST FOR ALLOWABLE  
AND  
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104  
Supersedes Old C-104 and C-110  
Effective 1-1-65

Eff. 2-1-71,  
Pan American Petro. Corp.  
has changed its name to  
AMOCO PROD. CO.

Operator <b>PAN AMERICAN PETROLEUM CORPORATION</b>	
Address <b>501 Airport Drive, Farmington, New Mexico 87401</b>	
Reason(s) for filing (Check proper box)	Other (Please explain)
New Well <input checked="" type="checkbox"/>	Change in Transporter of:
Recompletion <input type="checkbox"/>	Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/>
Change in Ownership <input type="checkbox"/>	Casinghead Gas <input type="checkbox"/> Condensate <input type="checkbox"/>



If change of ownership give name  
and address of previous owner \_\_\_\_\_

II. DESCRIPTION OF WELL AND LEASE

Lease Name <b>Gutierrez Gas Com "C"</b>	Well No. <b>1</b>	Pool Name, Including Formation <b>Blanco Pictured Cliffs</b>	Kind of Lease State, Federal or Fee <b>Fee</b>	Lease No.
Location Unit Letter <b>A</b> ; <b>800</b> Feet From The <b>North</b> Line and <b>960</b> Feet From The <b>East</b> Line of Section <b>4</b> Township <b>29-N</b> Range <b>9-W</b> , NMPM, <b>San Juan</b> County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)	
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)	
<b>El Paso Natural Gas Company</b>	<b>P. O. Box 990, Farmington, New Mexico</b>	
If well produces oil or liquids, give location of tanks.	Unit	Sec. Twp. Rge.
		Is gas actually connected? <b>No</b> When

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

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Rest'v.	Diff. Rest'v.
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
Date Spudded <b>9-6-70</b>	Date Compl. Ready to Prod. <b>9-21-70</b>	Total Depth <b>2432'</b>		P.B.T.D. <b>2382'</b>				
Elevations (DF, RKB, RT, GR, etc.) <b>GR 5634', RKB 5647'</b>	Name of Producing Formation <b>Pictured Cliffs</b>	Top Oil/Gas Pay <b>2273'</b>		Tubing Depth <b>2275'</b>				
Perforations <b>2273-88' x 2 SPF</b>				Depth Casing Shoe <b>2420'</b>				
TUBING, CASING, AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE	DEPTH SET		SACKS CEMENT				
<b>12-1/4"</b>	<b>8-5/8"</b>	<b>214'</b>		<b>200</b>				
<b>6-3/4"</b>	<b>4-1/2"</b>	<b>2420'</b>		<b>500</b>				
	<b>1-1/4"</b>	<b>2275'</b>						

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
		Casing Pressure	Choke Size
Length of Test	Tubing Pressure	Water-Bbls.	Gas-MCF
Actual Prod. During Test	Oil-Bbls.		

GAS WELL

Actual Prod. Test-MCF/D <b>356 (AOF 365)</b>	Length of Test <b>3 hr.</b>	Bbls. Condensate/MMCF <b>---</b>	Gravity of Condensate <b>---</b>
Testing Method (pitot, back pr.) <b>Open with 3/4" choke</b>	Tubing Pressure (shut-in) <b>457 psig</b>	Casing Pressure (shut-in) <b>457 psig</b>	Choke Size <b>3/4"</b>

VI. CERTIFICATE OF COMPLIANCE

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

ORIGINAL SIGNED BY  
**D. A. WAYHAN**

(Signature)

**Area Engineer**

(Title)

**October 6, 1970**

(Date)

OIL CONSERVATION COMMISSION

OCT 7 1970

APPROVED \_\_\_\_\_, 19 \_\_\_\_\_

BY **Original Signed by Emery C. Arnold**

TITLE **SUPERVISOR DIST. #3**

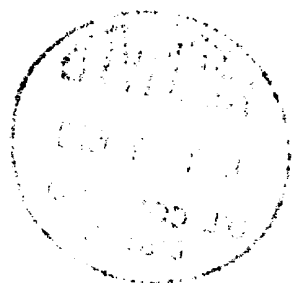
This form is to be filed in compliance with RULE 1104.

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.



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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 <input type="checkbox"/>	7. Unit Agreement Name
2. Name of Operator <b>AMOCO PRODUCTION COMPANY</b>	8. Farm or Lease Name <b>Cutierrez Gas Com "C"</b>
3. Address of Operator <b>501 Airport Drive, Farmington, New Mexico</b>	9. Well No. <b>1</b>
4. Location of Well UNIT LETTER <b>A</b> , <b>800</b> FEET FROM THE <b>North</b> LINE AND <b>960</b> FEET FROM THE <b>East</b> LINE, SECTION <b>4</b> TOWNSHIP <b>29N</b> RANGE <b>9W</b> NMPM. <b>above Pictured Cliffs</b>	10. Field and Pool, or Wildcat <b>above Pictured Cliffs</b>
15. Elevation (Show whether DF, RT, GR, etc.) <b>GL 5634', RDB 5647</b>	12. County <b>San Juan</b>

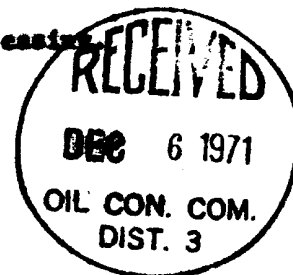
Check Appropriate Box To Indicate Nature of Notice, Report or Other Data  
NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input checked="" type="checkbox"/> <b>Multiple Completion</b>	CASING TEST AND CEMENT JOB <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.

Plan to dually complete subject well in the Fruitland in the following manner:

1. Set bridge plug above Pictured Cliffs producing interval.
2. Selectively perforate Fruitland Fm. interval 2990-2104
3. Frac with 20,000 gallons of gelled water and 20,000 pounds of sand.
4. Set production packer at about 2200 and sliding sleeve assembly at about 2075.
5. Produce Pictured Cliffs through tubing and Fruitland through the casing.



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

SIGNED Joseph D. Bridges TITLE Petroleum Engineer DATE December 3, 1971

APPROVED BY Ernest C. Ames TITLE SUPERVISOR DIST. #3 DATE DEC 6 1971

CONDITIONS OF APPROVAL, IF ANY:

Corrected Copy

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102  
Supersedes C-126  
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

Operator AMOCO PRODUCTION COMPANY			Lease Gutierrez Gas Com "C"		Well No. 1
Unit Letter A	Section 4	Township 29North	Range 9West	County San Juan	
Actual Footage Location of Well: 800 feet from the North line and 960 feet from the East line					
Ground Level Elev. 5634	Producing Formation Fruitland	Pool Undesignated	Dedicated Acreage: <del>159.64</del> 160 Acres		

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☒ Yes ☐ No If answer is "yes," type of consolidation Communitization

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.

CERTIFICATION

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

Name  
*Joseph D. Bridgman*  
Position  
Petroleum Engineer

Company  
AMOCO PRODUCTION CO.

Date  
Dec. 3, 1971

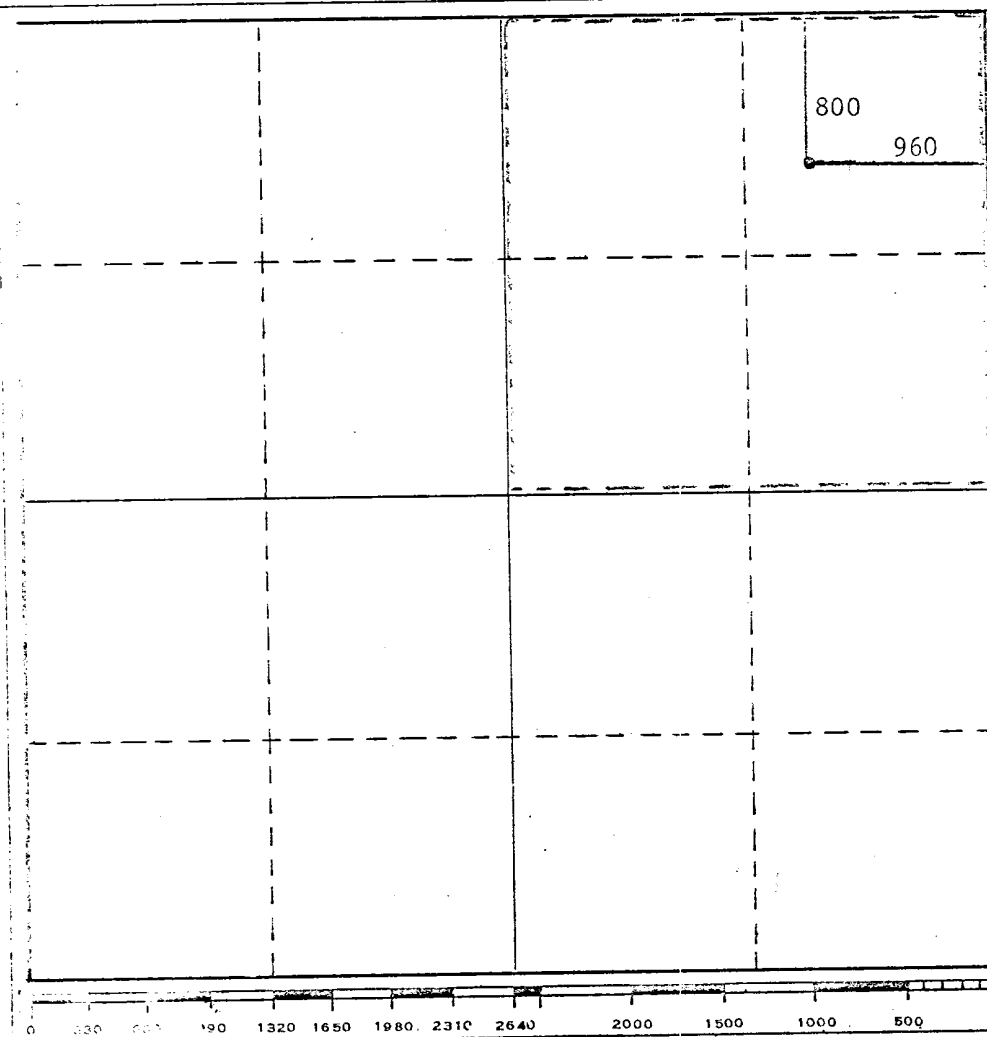
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

August 11, 1970

Date Surveyed Original signed by  
Fred B. Kerr, Jr.

Registered Professional Engineer  
and/or Land Surveyor

3950  
Certificate No.





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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 <b>AMOCO PRODUCTION COMPANY</b>		8. Farm or Lease Name <b>Gutierrez Gas Com "C"</b>
3. Address of Operator <b>501 Airport Drive, Farmington, New Mexico 87401</b>		9. Well No. <b>1</b>
4. Location of Well UNIT LETTER <b>A</b> <b>800</b> FEET FROM THE <b>North</b> LINE AND <b>960</b> FEET FROM THE <b>East</b> LINE, SECTION <b>4</b> TOWNSHIP <b>29N</b> RANGE <b>9W</b> NMPM.		10. Field and Pool, or Wildcat <b>Blanco Pictured Cliffs</b>
15. Elevation (Show whether DF, RT, GR, etc.) <b>GL 5634', RDB 5647'</b>		12. County <b>San Juan</b>

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 type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	CASING TEST AND CEMENT JOBS <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 checked="" 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 have changed plans from a multiple completion of this well to temporary abandonment of Pictured Cliffs zone while testing the Fruitland formation. Procedure is to isolate Pictured Cliffs below a drillable bridge plug and proceed with conventional completion of Fruitland as indicated on previous Sundry Notice. At a later date the bridge plug could be drilled subject to approval.



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

ORIGINAL SIGNED BY Emery C. Arnold TITLE Area Engineer DATE January 10, 1972

APPROVED BY Emery C. Arnold TITLE SUPERVISOR DIST. #3 DATE JAN 11 1972

CONDITIONS OF APPROVAL, IF ANY: