

# PAN AMERICAN PETROLEUM CORPORATION

P. O. Box 480, Farmington, New Mexico  
March 24, 1965

File: M-1030-400.1

Subject: Directional Survey  
Gutierrez Gas Unit "B" No. 1  
NE/4 Section 4, T-29-N, R-9-W  
Basin Dakota Field  
San Juan County, New Mexico

Mr. Emery C. Arnold (3)  
New Mexico Oil Conservation Commission  
1000 Rio Brazos Road  
Altec, New Mexico

Dear Sir:

Attached please find the original and copies of the following on the subject Gutierrez Gas Unit "B" No. 1 in the Basin Dakota Field, San Juan County, New Mexico:

1. Form C-104, Request For Allowable
2. Tabulation of Deviation Test
3. Location Plat of T-29-N and T-30-N, R-9-W

Referring to the attached Tabulation of Deviation Tests for the Gutierrez Gas Unit "B" No. 1, you will note that the deviation from vertical on this well exceeded five degrees below a depth of 5960 feet. However, the running of a directional survey was hazardous due to wet hole conditions as a result of Mesaverde fluids encountered while gas drilling this portion of the hole.

As may be noted, the maximum horizontal drift would be 278 feet from the surface well location. As the well was staked 1050 feet from the north line and 1846 feet from the east line of Section 4, with an E/2 of Section 4 Dakota Gas Unit, the closest point to the section line would be 772 feet from the north line, and the closest point to the Dakota unit boundary is 516 feet from the west line of the unit. The west offsetting Dakota Gas Unit, covering the W/2 of Section 4, is owned 100 percent by Pan American. The closest acreage owned by another operator is to the east in the NE/4 NW/4 of Section 3, or an approximate distance of 2800 feet. As the bottom hole location is well confined within the Dakota unit boundary of the well, it is requested that this Tabulation of Deviation Test be accepted in lieu of a directional survey.

Yours very truly,

PAN AMERICAN PETROLEUM CORPORATION

*L. O. Speer, Jr.*  
L. O. Speer, Jr.  
Area Superintendent

FHH:mp  
Encl (3)



TABULATION OF DEVIATION TESTS  
PAN AMERICAN PETROLEUM CORPORATION  
GUTIERREZ GAS UNIT "B" NO. 1

MEASURED DEPTH, FEET	DEVIATION DEGREES	INCREMENTAL DEPTH	HORIZONTAL DRIFT INCREMENTAL, FEET	HORIZONTAL DRIFT TOTAL, FEET
296	3/4	296	4	4
718	3/4	422	6	10
1142	3/4	424	6	16
1332	1-1/2	190	5	21
1734	1-1/2	402	10	31
1972	1/2	238	2	33
2365	—	Mis-Run	—	—
2600	2-1/4	628	25	58
2960	2-1/4	360	14	72
3380	1-1/2	420	11	83
3790	1	410	7	90
4180	1	390	7	97
4590	3/4	410	5	102
5101	1-1/2	511	13	115
5515	3	414	22	137
5700	3	185	10	147
5900	4-3/4	200	17	164
5960	5	60	5	169
6020	7	60	7	176
6058	7	38	5	181
6088	6-1/2	30	3	184
6118	6-1/2	30	3	187
6150	6	32	3	190
6210	6-1/4	60	6	196
6305	—	Mis-Run	—	—
6335	9	125	20	216
6395	8-1/2	60	9	225
6425	7	30	4	229
6485	9	60	9	238
6520	8-1/2	35	5	243
6555	7-3/4	35	5	248
6600	7-1/2	45	6	254
6790	7-1/4	190	24	278

CLOSEST SECTION LINE: 1050' FNL  
 $\frac{-278}{772}$  FNL

CLOSEST OFFSET OPERATOR: APPROXIMATELY 2800' EAST

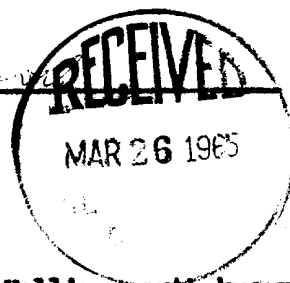
CLOSEST UNIT BOUNDARY LINE: 794' FNL OF UNIT (1846' FEL)  
 $\frac{-278}{516}$  FNL

TD: 6800 PBD: 6762

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 Unit "B" No. 1, located 1050' FNL and 1846' FEL, Section 4, T-29-N, R-9-W, San Juan County, New Mexico.

Signed: F. H. Hollingsworth  
 Petroleum Engineer



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

BEFORE ME, the undersigned authority, on this day personally appeared F. H. Hollingsworth known to me to be Petroleum 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 24th day of March, 1965.

My Commission Expires February 23, 1969.

S. K. Duff  
 Notary Public

30-045-08808

COPIES RECEIVED	3
DISTRIBUTION	
S. FE	1
FILE	1
U.S.G.S.	2
LAND OFFICE	
OPERATOR	1

## NEW MEXICO OIL CONSERVATION COMMISSION

Form C-101  
Revised 1-1-65

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

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		7. Unit Agreement Name
b. Type of Well OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		8. Farm or Lease Name <b>Gutierrez Gas Unit "B"</b>
2. Name of Operator <b>PAN AMERICAN PETROLEUM CORPORATION</b>		9. Well No. <b>1</b>
3. Address of Operator <b>P. O. Box 480, Farmington, New Mexico</b>		10. Field and Pool, or Wildcat <b>Basin Dakota</b>
4. Location of Well UNIT LETTER <b>B</b> LOCATED <b>1050</b> FEET FROM THE <b>North</b> LINE AND <b>1846</b> FEET FROM THE <b>East</b> LINE OF SEC. <b>4</b> TWP. <b>29N</b> RGE. <b>9W</b> NMPM		12. County <b>San Juan</b>
19. Proposed Depth <b>6850</b>		19A. Formation <b>Dakota</b>
20. Rotary or C.T. <b>Rotary</b>		
21. Elevations (Show whether DF, RT, etc.) <b>Will Report Later</b>	21A. Kind & Status Plug. Bond <b>Statewide</b>	22. Approx. Date Work will start <b>1-27-65</b>

## PROPOSED CASING AND CEMENT PROGRAM

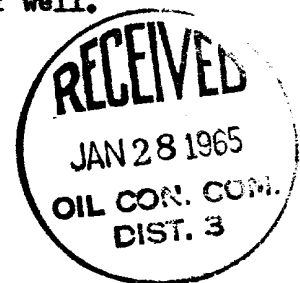
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
13-3/4"	10-3/4"	48#	300	300	Surface
9-7/8"	7-5/8"	26.4#	2500	600	Surface
6-3/4"	4-1/2"	10.5#	6850	450*	2500

(\*Stage Collar set 100' below base of Mesaverde)

Copies of location plat are attached.

Copies of any logs run will be forwarded upon completion of well.

Completion will be as indicated upon reaching total depth.



IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

**Fred L. Nabors, District Engineer**Signed **F. H. HOLLINGSWORTH** Title \_\_\_\_\_ Date **1-26-65**

(This space for State Use)

APPROVED BY *A. L. Kendrick* TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

## Well Location and Acreage Dedication Plat

Section A.

JANUARY 26, 1965

Operator PAN AMERICAN PETROLEUM CORPORATION CUTIERREZ GAS UNIT B  
 Well No. 1 Unit Letter B Section 4 Township 29 NORTH Range 9 WEST North  
 Located 1050 Feet From the NORTH Line 1846 Feet From the EAST Line  
 County SAN JUAN G. L. Elevation REPORT LATER Dedicated Acreage 319.64 Acres  
 Name of Producing Formation DAKOTA Pool BASIN DAKOTA

1. Is the Operator the only owner in the dedicated acreage outlined on the plat below?

Yes X No \_\_\_\_\_

2. If the answer to question one is "no", have the interests of all the owners been consolidated by communitization agreement or otherwise? Yes \_\_\_\_\_ No \_\_\_\_\_ If answer is "yes", Type of Consolidation \_\_\_\_\_

3. If the answer to question two is "no", list all the owners and their respective interests below.

Owner

Land Description

Section B.

This is to certify that the information  
 in Section A above is true and complete  
 to the best of my knowledge and belief.

PAN AMERICAN PETROLEUM CORP.

F. H. Hollingsworth (Operator)

F. H. Hollingsworth

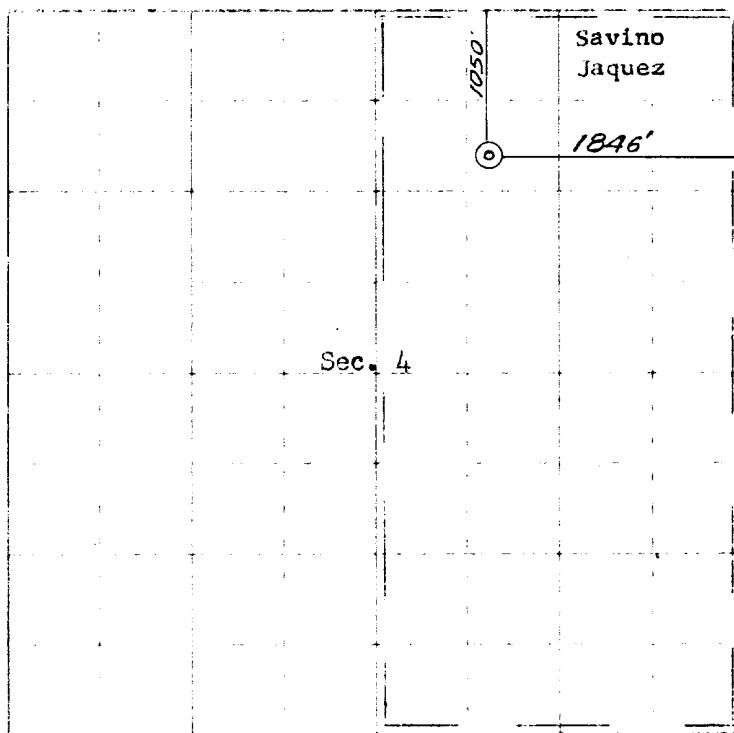
(Representative)

P. O. Box 480

(Address)

Farmington, New Mexico

Note: All distances must be from outer boundaries of section.



0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

Scale 4 inches equal 1 mile

Ref: GLO plat dated 2 July 1952



(Seal)

Farmington, New Mexico

This is to certify that the above plat was prepared from field notes of actual surveys  
 made by me or under my supervision and that the same are true and correct to the best  
 of my knowledge and belief.

Date Surveyed January 21, 1965

James P. Leese  
 Registered Professional Engineer and/or Land Surveyor  
 James P. Leese, N. Mex. Reg. No. 1463  
 San Juan Engineering Company