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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 ☐ Fee. ☒

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 ☐ GAS WELL ☒ OTHER-

7. Unit Agreement Name

2. Name of Operator
PAN AMERICAN PETROLEUM CORPORATION

8. Farm or Lease Name
Archuleta Gas Unit "A"

3. Address of Operator
P. O. Box 480, Farmington, New Mexico

9. Well No.
3

4. Location of Well
UNIT LETTER **K**, **1450** FEET FROM THE **South** LINE AND **1610** FEET FROM THE **West** LINE, SECTION **5** TOWNSHIP **29N** RANGE **9W** NMPM.

10. Field and Pool, or Wildcat
Basin Dakota

15. Elevation *(Show whether DF, RT, GR, etc.)*
5595 (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 ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐		COMMENCE DRILLING OPNS. ☐	PLUG AND ABANDONMENT ☐
PULL OR ALTER CASING ☐	CHANGE PLANS ☐	CASING TEST AND CEMENT JOB ☐	
OTHER ☐		OTHER **Well History** ☒	

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.

The above well was spudded on 3-11-65 and drilled to a depth of 271'. 10-3/4" casing was set at that depth with 225 sacks cement containing 2% calcium chloride. Cement circulated to surface. After waiting on cement tested casing with 1200 psi. Test OK. Reduced hole size to 9-7/8" and resumed drilling.

Well was drilled to a depth of 2354'. 7-5/8" casing was set at that depth with 450 sacks cement containing 6% gel and 2 pounds Tuf Plug per sack and followed by 150 sacks cement containing 2% calcium chloride. Cement circulated to surface. After waiting on cement tested casing with 1800 psi. Test OK. Reduced hole size to 6-3/4" and resumed drilling.

Well was drilled to a total depth of 6660 and 4-1/2" casing was set at that depth with stage collar set at 4610'. Cemented first stage with 150 sacks cement containing 6% gel, 2 pounds Tuf Plug per sack followed by 100 sacks neat cement. Cemented second stage with 25 sacks neat cement followed by 200 sacks cement containing 50-50 Pozmix, 2% gel, 1 cubic foot Strata Crete "6" per sack, 1 pound Tuf Plug followed by 25 sacks neat cement. After waiting on cement tested casing with 3500 psi. Test OK.

Perforated Main Dakota 6560-84 with 2 shots per foot. Fracked these perforations with 38,000 gallons water containing 0.8% potassium chloride, 2-1/2 pounds J-100 per 1000 gallons and 40,000 pounds sand. Breakdown pressure 1900 psi, average treating pressure 3200 psi, average injection rate 39 BPM. Bridge plug set at 6540 and tested with 3500 psi. Test OK. Perforated Graneros 6477-85 and 6504-08 with 4 shots per foot. Fracked these perforations with 30,000 gallons water

(Continued on Reverse Side)

18. 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 ORIGINAL SIGNED BY F. H. HOLLINGSWORTH TITLE _____ DATE **April 12, 1965**

APPROVED BY Original Signed Emery C. Arnold TITLE Supervisor Dist. # 3 DATE APR 13 1965

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DIST. 3

treated as above and containing 30,000 pounds sand. Breakdown pressure 2000 psi. Average treating pressure 3400 psi. Average injection rate 45 BPM. Drilled out bridge plug and flowed well to clean up.

2-3/8" tubing landed at 6480 and well completed April 4, 1965 as shut in Basin Dakota Field Development Well. Preliminary test 4300 MCFD.

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:	Special:	Date of Test: 4-11-65
Company: PAN AMERICAN PETROLEUM CORPORATION	Lease: Armijo Gas Unit "A"		Well No.: 3
Unit: K	Sec.: 5	Twp.: 29N	Range: 9W
Purchaser:			
Casing: 4-1/2	Wt.: 10.5	I.D.: 4.052	Set at: 6660
Perf.: 6504-08, 6477-85	To: 6560-84		
Tubing: 2-3/8	Wt.: 4.7	I.D.: 1.995	Set at: 6480
Perf.: 6443	To: 6449		
Gas Pay: From: 6477	To: 6504	L: 6531	G: .700
GL: 4572	Bar. Press.: 12		
Producing Through: Casing	Tubing: XX	Type Well — Single — Braden head — G.G. or G.O. Dual: Single	
Date of Completion: 4-4-65	Packer: None	Reservoir Temp.:	

OBSERVED DATA

Tested Through: Prover ☐ Choke ☒ Meter ☐ Type of Taps:

No.	FLOW DATA (Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig.	Diff. h_w	Temp. °F.	TUBING DATA Press. psig.	Temp. °F.	CASING DATA Press. psig.	Temp. °F.	DURATION OF FLOW HR.
SI	7 Days					2139		2139		
1.	2 Inch	.750	436			436	60° est.	1000	60° est.	3 Hr.
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		448	1.0000	.9258	1.057	5421
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c _____ $(1-e^{-S})$ _____

Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 2141 P_c^2 4,583,881

No.	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.						1,026,144	3,550,737		
2.									
3.									
4.									
5.									

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ABSOLUTE POTENTIAL: 6553 MCFPD; n .75

COMPANY PAN AMERICAN PETROLEUM CORPORATION WITNESSED _____

ADDRESS Box 480, Farmington, New Mexico COMPANY ORIGINAL SIGNED BY F. W. Foell

AGENT AND TITLE P. L. Mabery, District Engineer By _____

TABULATION OF DEVIATION TESTS

PAN AMERICAN PETROLEUM CORPORATION

ARCHULETA GAS UNIT "A" NO. 3

DEPTH	DEVIATION
670 '	1/2 °
1068	3/4
1328	1/2
1767	3/4
1892	3/4
2350	2-1/2
2765	1-1/4
3165	1-
3600	1-
4030	3/4
4430	1/2
4845	1/2
5250	1-1/4
5650	1-1/2
6050	3-1/4
6455	4-1/4
6660	4

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 **Archuleta Gas Unit "A" No. 3 located in the NE/4 SE/4 Section 5, T-29-N, R-9-W, San Juan County, New Mexico.**

Signed Frank H. Hollingsworth
Petroleum Engineer

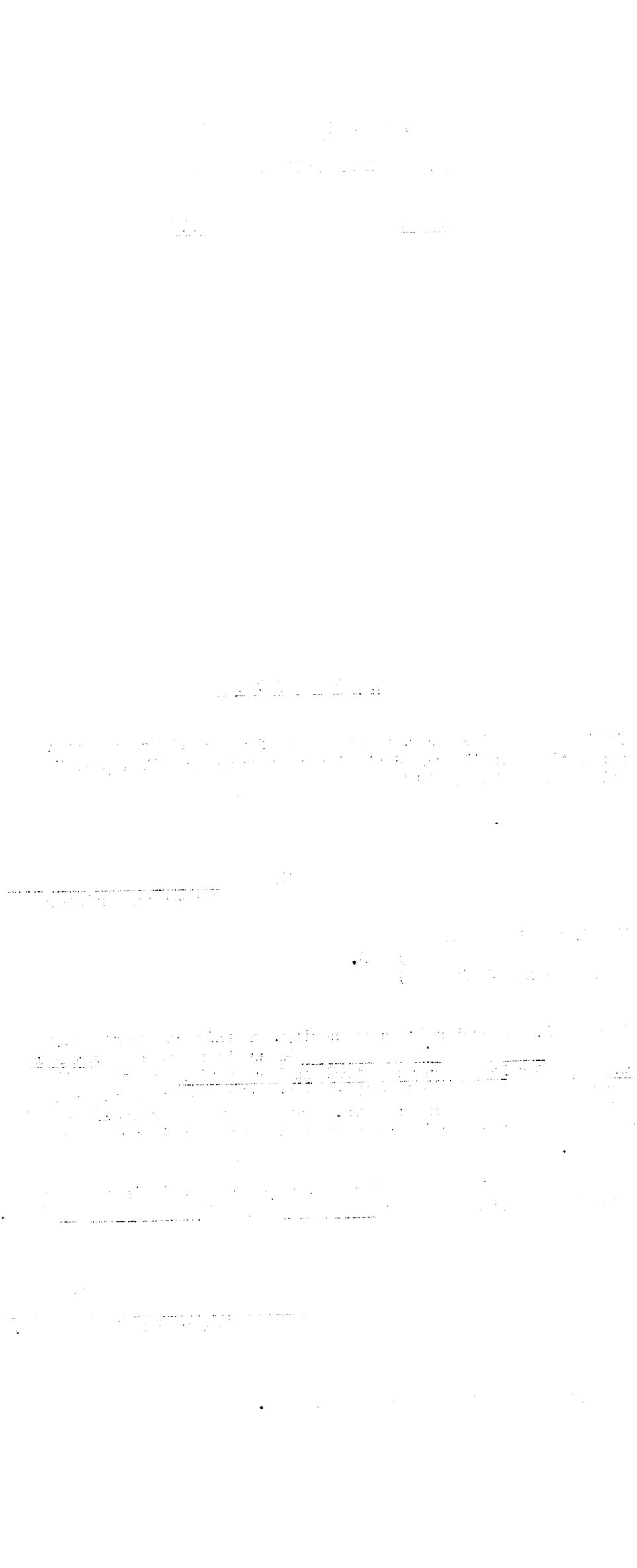
THE STATE OF NEW MEXICO)
) SS.
COUNTY OF SAN JUAN)

BEFORE ME, the undersigned authority, on this day personally appeared **Frank 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 **12th.** day of **April**, 1965.

S. K. Nutt
Notary Public

My Commission Expires February 23, 1969.



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NEW MEXICO OIL CONSERVATION COMMISSION

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

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State ☐ Fee. ☒

5. State Oil & Gas Lease No.

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5583 (GL)

12. County
San Juan

16.

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PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐		COMMENCE DRILLING OPNS. ☐	PLUG AND ABANDONMENT ☐
PULL OR ALTER CASING ☐	CHANGE PLANS ☐	CASING TEST AND CEMENT JOB ☐	
OTHER ☐		OTHER **Report of Potential Test** ☒	

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.

This is to report the following Potential Test:

Potential Test April 11, 1965. Flowed 5421 MCFPD through 3/4" choke after 3 hours flow. Absolute open flow potential 6553 MCFPD. Shut in casing pressure after 7 Days, 2129 psig.

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

SIGNED ORIGINAL SIGNED BY L. R. TURNER TITLE **Administrative Clerk** DATE **May 4, 1965**

APPROVED BY **Original Signed Emery C. Arnold** TITLE **Supervisor Dist. # 3** DATE **MAY 5 1965**

CONDITIONS OF APPROVAL, IF ANY: