

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

Form C-122
Revised 9-1-65

NAME CHANGED:
FROM: PAN AMERICAN PETR. CORP.
TO: AMOCO PRODUCTION CO.
EFFECTIVE: 2-1-71

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date: 2-1-71				
Company Pan American Petroleum Corp				Connection Phillips Petroleum Co					
Pool West Ranger Lake Devonian Field				Formation Devonian				Unit	
Completion Date 8-30-68		Total Depth 12,899'		Plug Back TD ---		Elevation 4169' RDB		Farm or Lease Name State "AZ"	
Csg. Size 5-1/2"	Wt. 17-20#	d 4.892	Set At 12,839	Perforations: From 12,839 To 12,889				Well No. 4	
Thg. Size 2-7/8"	Wt. 6.5#	d 2.441	Set At 12,859	From Open Ended				Unit A	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 12,832'				County Lea	
Producing Thru Tubing		Reservoir Temp. °F 172 @ 12,836		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State New Mexico	
L 12,859	H 12,859	Gg 0.720	% CO ₂ 1.85	% N ₂ 4.00	% H ₂ S 0.0	Prover	Meter Run 4"	Taps Flange	

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI							1675		Pkr		30
1.	4" x 2.500			740	0.6	70	880				24
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	42.17	21.27	753.2	.9905	1.179	1.085	1,137 ✓
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	1.13	530	1.38	0.850	4.987 Mcf/bbl.	61 Deg.	.720	X X X X X X X X	669 P.S.I.A.	384 R
2.										
3.										
4.										
5.										

NO.	P _c	P _w	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2}$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n$
1	1683.2	918.2	2850.0	1.420	1.305
2.					
3.					
4.					
5.					

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1,484$			
Absolute Open Flow 1,484 Mcfd @ 15.025		Angle of Slope θ 0.760	

Remarks: **Slope used was obtained by Humble on New Mexico State "CH" No. 1, West Ranger Lake Devonian Field, Sec. 27, T-12-S, R-34-E. The State "AZ" No. 4 flows by heads and has very low productivity for this field.**

Approved By Commission: <i>[Signature]</i>	Conducted By: Jack Geller	Calculated By: <i>[Signature]</i> E. J. Snook	Checked By: J. E. York
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