

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

818 0 1977

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 2-21-67	
Company Pan American Pet. Corp.		Connection None	
Pool Undesignated		Formation Devonian	
Completion Date 2-21-67		Total Depth 16,660'	
Plug Back TD 16,660'		Elevation 3502' RDB	
Form or Lease Name Poker Lake Unit		Well No. 36	
Case Size 7"	Wt. 23-35#/ft.	Set At 16,526'	Perforations: Open hole From 16,526' to 16,660'
Log Size 2-7/8"	Wt. 6.5#/ft.	Set At 16,655'	Perforations: From Open end To
Type Well - Single - Blindhead - G.O. or G.O. Multiple Single		Packer Set At 16,470'	
Producing thru Tubing		Reservoir Temp. °F 247 @ 16,651'	
Mean Annual Temp. °F 13.2		State New Mexico	
L 16,655	H 16,655	G _g 0.58	% CO ₂ 1.63
		% H ₂ 1.57	% H ₂ S 0.46
Prover		Meter Run 6"	
Taps Flg.			

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Differential hwy	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							5420				43 hrs.
1.	5.761 x 3.000			378	8.2	113	5355	56	Pkr.		20 min.
2.	5.761 x 3.000			408	29.0	91	5170	59	"		60 min.
3.	5.761 x 3.000			415	59.0	80	4832	62	"		60 min.
4.	5.761 x 3.000			550	76.5	61	4450	69	"		60 min.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mcfd
1	45.787	56.623	391	.9526	1.3131	1.0220	3314
2	45.787	110.494	421	.9715	1.3131	1.0280	6634
3	45.787	158.908	428	.9613	1.3131	1.0310	9666
4	45.787	207.532	563	.9804	1.3131	1.0390	12710
5							

NO.	P ₁	Temp. °F	T ₁	Z	Gas-Liquid Hydrocarbon Ratio	API Gravity of Liquid Hydrocarbons	Specific Gravity of water Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	.581	573	1.637	.9584	450	100 API - All fresh mud	0.58	XXXXXX	672	350
2	.626	551	1.574	.9461						
3	.636	540	1.542	.9416						
4	.837	541	1.545	.9260						
5										

NO.	P ₁ ²	P _w	P ₁ ²	P ₁ ² - P _w ²	(1) $\frac{P_1^2}{P_1^2 - P_w^2} =$	(2) $\left[\frac{P_1^2}{P_1^2 - P_w^2} \right]^n =$
1	28815	7111	50566	599		
2	26863	7074	49477	1688		
3	23474	6851	46936	4229		
4	19918	6735	45360	5805		
5						

Absolute Open Flow 42.701 MCFD Angle of Slope 60.0483 Slope, n .5762
 Remarks: Calculations performed by computer. P₁ and Z vary slightly to fit programmed factors.
 Approved by Commission: _____ Conducted by: E. J. Snook Checked by: _____