

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special 6-27-76	
Company American Quasar Petroleum Co. Union Gas Co.	
Pool Co. of New Mexico Wildcat	Formation Strawn
Completion Date 6-27-76	Total Depth 14,739'
Plug Back To 12,640'	3500 DF
Unit Ojo Chiso Unit	Form or Lease Name Ojo Chiso Unit
Csg. Size 7 5/8"	Wt. 33.39#
Set At 11,500'	Perforations: From 11,727 To 11,890
Well No. 1	
Thg. Size 2 7/8	Wt. 11,500'
Set At 11,500'	Perforations: From To
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single	
Packer Set At 11,500	County Lea
Producing Thru Tubing	Reservoir Temp. °F 184 @ 11,727
Mean Annual Temp. °F 60°	Baro. Press. - P _a 13.2
State New Mexico	
L 11,727	H 11,727
Gg .9247	% CO ₂ .86
% N ₂ --	% H ₂ S --
Prover X	Meter Run X
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.	
SI							4539			
1.	4.028X2.000			462.9		76	3900	49		
2.	4.028X2.000			462.9		74	3165	48		2 hrs.
3.	4.028X2.000			462.9		70	2657	48		2 hrs.
4.	4.028X2.000			462.9		69	1990	48		2 hrs.
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour) *	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor G _g	Super Compress. Factor F _{pv}	Rate of Flow Q, Mcfd
1	62.639	6.9 X 1.6	476.1	.9850	1.040	1.104	782
2	62.639	6.9 X 2.5	476.1	.9868	1.040	1.106	1226
3	62.639	6.9 X 3.2	476.1	.9905	1.040	1.109	1580
4	62.639	6.9 X 4.1	476.1	.9915	1.040	1.109	2026
5							

NO.	P _t	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
					12,409					
1	.714	536	1.157	.820		53.2				
2	.714	534	1.153	.817			9247			
3	.714	530	1.144	.813						
4	.714	529	1.142	.813						
5										

NO.	P _t ²	P _s ²	P _s ² - P _t ²	(1) $\frac{P_t^2}{P_s^2 - P_t^2} =$	(2) $\left[\frac{P_t^2}{P_s^2 - P_t^2} \right]^n =$
1	5736.2	32,904	6889	1.4236	1.2688
2	5152.2	26,545	13,248		
3	4336.2	18,803	20990		
4	3441.2	11,842	27951		
5					

Absolute Open Flow 2570 Mcfd @ 15.125		Angle of Slope 56°	Slope, n .674
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Remarks: * Basic orifice factor of 19.81 mcfd X L-10 meter factor of 3.162 for a 1000 psi X 100" meter.
Bottom hole pressure recorded with an Amerada RPG-3 instrument # 34922.

Approved By Commission:	Conducted By: Tom Hansen Co.	Calculated By: Tom Hansen Co.	Checked By:
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RECEIVED

JUL 9 1976

OIL CONSERVATION COMM.
HOBBS N M