

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						Test Date 10/20/77		SPUD DATE: 5-31-77	
Company American Quasar Co. of New Mex.				Location None					
Pool Brinninstool (Morrow)				Formation Morrow				Unit F	
Completion Date 10-20-77		Total Depth 15800		Plug Depth, TD 15,712'		Elevation 3,749 RKB		Farm or Lease Name Brinninstool	
Chg. Size 75/8 & 5	Wt. 26	d 7.386	Set At 15800	Perforations: From 15414 To 15672		Well No. 2			
Tbg. Size 2 7/8	Wt. 6.5	d 2.441	Set At 12355	Perforations: From To		Unit Sec. Twp. Rge. F 21 23 33			
Type Well - Single - Brokenhead - G.G. or G.O. Multiple Single						Packer Set At 12,345'		County Lea	
Producing Thru Tbg.		Reservoir Temp. °F 207 @ 13,294		Mean Annual Temp. °F		Baro. Press. - P _a 13.2		State New Mexico	
L *13294	R 13,294	G _g .591	% CO ₂ 1.24	% N ₂ 0.51	% H ₂ S 0	Prover	Meter Run 4	Taps Flg.	

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							6535				
1.	4	x	1.250	590	10	100	6322				1 hr.
2.	4	x	1.250	590	25	100	6123				1 hr.
3.	4	x	1.250	600	51	90	5810				1 hr.
4.	4	x	1.250	600	82	80	5462				1 hr.
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	7.469	77.67	603.2	.9636	1.301	1.038	755
2	7.469	122.80	603.2	.9636	1.301	1.038	1194
3	7.469	176.84	613.2	.9723	1.301	1.043	1743
4	7.469	224.24	613.2	.9813	1.301	1.045	2234
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Ratio in Patts	Mcf/col.
1	.90	560	1.58	.929	A.P.L. Gravity of Liquid Hydrocarbons	Deq.
2	.90	560	1.58	.929	Specific Gravity Separator Gas	X X X X X X X X
3	.91	550	1.55	.920	Specific Gravity Flowing Fluid	X X X X X
4	.91	540	1.53	.916	Critical Pressure 672	P.S.I.A.
5					Critical Temperature 354	°R

NO.	P _r	P _w	P _w '	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} =$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n =$
1		6336.7	40153.8	2725.1	3.348	2.350
2		6138.8	37684.9	5194.0		
3		5830.3	33992.4	8886.5		
4		5483.9	30073.2	12805.7		
5						

Absolute Open Flow 5,250		Mcf/col. 15.075		Angle of Slope α 54.75		Slope, n .707	
Remarks: * Equiv. Length							
Approved By: _____		Conducted By: AMERICAN QUASAR		Regulated By: _____		Checked By: _____	
T. R. Fleeman		Reggie Reston					

RECEIVED

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**OIL CONSERVATION COMM.
HOBBS, N. M.**