NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT A ONE POINT BACK PRESSURE TEST FOR GAS WELL

C-122
Form C-122
Revised 9-1-65

RECEIVED
JUN 9 1975
O. C. C.
ARTESIA, OFFICE

Type Test: XX Initial ☐ Annual ☐ Special				Test Date: 5-9-75	
Company: American Quasar Petroleum Co. of New Mexico			Connection: None		
Pool: Wildcat			Formation: Morrow		
Completion Date: 5-9-75	Total Depth: 10,400'		Plug Back TD: 10,290'	Elevation: 4410 GR	Farm or Lease Name: Huber State
Csg. Size: 5 1/2" / Wt.: 17# / d: N-80 / Set At: 10,399'			Perforations: From 10,052' To 10,137'		Well No.: 1
Tbg. Size: 2 3/8" / Wt.: 5.95 / d: PH-6 Hydril / Set At: 9,979'			Perforations: From 10,052' To 10,137'		Unit: F / Sec.: 36 / Twp.: 23S / Rge.: 22E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: 9,979'		County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 147 @ 10,145	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2		State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
10,145	10,145	.599					3,068	

	FLOW DATA				TUBING DATA		CASING DATA		
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	Duration of Flow
SI						2380	80			
1.	3.0	.750	900	2"	103	2348	82			1 hr.
2.	3.0	.750	900	6"	103	2318	82			1 hr.
3.	3.0	.750	890	21"	94	2246	86			1 hr
4.	3.0	.750	900	73"	88	2046	86			1 hr
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	2.672	42.736	913.2	.9611	1.292	1.132	161
2.	2.672	74.021	913.2	.9611	1.292	1.132	278
3.	2.672	137.721	903.2	.9688	1.292	1.128	520
4.	2.672	258.193	913.2	.9741	1.292	1.125	977
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	3.52	542	1.51	.780
2.	3.47	542	1.51	.780
3.	3.37	546	1.53	.786
4.	3.07	546	1.53	.790
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure 671 P.S.I.A. _____ P.S.I.A.
Critical Temperature 358 R _____ R

P_c 2393.2 P_c^2 5727

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		2361.5	5577	150
2		2331.3	5435	292
3		2260.5	5110	617
4		2065.6	4267	1460
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{5727}{617}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 6.00953$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3124$

posted 6-13-75

Absolute Open Flow 3124 Mcfd @ 15.025 | Angle of Slope θ 51° 10' | Slope, n .805

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	T. R. Fleeman M&TS	West Texas Con.	