(copy CO-1)

NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

C-122

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O. C. C.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 10-24-75		
Company: American Quasar Petroleum Co.			Connection: None			
Pool: Wildcat of New Mexico			Formation: Morrow			Unit: K
Completion Date: 10-24-75	Total Depth: 10615		Plug Back TD: 10262		Elevation: 4181 Gr.	Farm or Lease Name: Robinia Draw Unit
Csg. Size: 5.50"	Wt.: 17.00#	d: 4.892"	Set At: 10615	Perforations: From 9937 To 9947		Well No.: 1
Tbg. Size: 2.875EUE	Wt.: 6.50#	d: 2.441"	Set At: 9878	Perforations: From To		Unit: K Sec.: 7 Twp.: 23S Rge.: 24E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single Completion			Packer Set At: 9878			County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 184° 9942		Mean Annual Temp. °F: 60	Baro. Press. - P_a: 13.2		State: New Mexico
L: 9942	H: 9942	Gg: 0.592	% CO_2: 0.00	% N_2: 0.00	% H_2S: 0.00	Prover:	Meter Run: X	Taps:

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							3010	75			
1.	3.00		1.00	820	46.00"	80	2170	70			1.00 Hr.
2.	3.00		1.00	820	52.00"	80	1827	71			1.00 Hr.
3.	3.00		1.00	820	60.00"	86	1510	71			1.00 Hr.
4.	3.00		1.00	820	72.00"	89	1247	74			1.00 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.	4.79	195.773	833.20	0.9813	1.2997	1.0610	1269
2.	4.79	208.150	833.20	0.9813	1.2997	1.0610	1349
3.	4.79	223.589	833.20	0.9759	1.2997	1.0590	1438
4.	4.79	244.929	833.20	0.9732	1.2997	1.0580	1570
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	1.24	540	1.53	0.881
2.	1.24	540	1.53	0.881
3.	1.24	546	1.54	0.881
4.	1.24	549	1.55	0.881
5.				

P_c 3023.2 P_c^2 9140

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		2293.8	5262	3878
2		1650.7	3425	5715
3		1564.1	2509	6630
4		1369.3	1875	7265
5				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons None Produced Deg.
Specific Gravity Separator Gas 0.592 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX 0.592
Critical Pressure 672 P.S.I.A. 672 P.S.I.A.
Critical Temperature 354 R 354 R

(1) $\frac{P_c^2}{P_c^2 - P_w^2}$ = 1.25809 (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 1.25581

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ARTESIA, NEW MEXICO

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 1973

Absolute Open Flow 1973 Mcfd @ 15.025 Angle of Slope θ 45.00 Slope, n 1.000

Remarks:

WEST TEXAS CONSULTING SERVICE, INC.