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C-122

EW MEXICO OIL CONSERVATION CC SSION

Form C-122
Revised 9-1-65

MULTIPOIN. AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED

OCT 16 1973

O. C. C.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 8-7-73	
Company: American Quasar Pet. Co.		Connection: None			
Pool: Wildcat		Formation: Morrow			Unit:
Completion Date: 8-7-73	Total Depth: 10,150	Plug Back TD: 10,112		Elevation: 3422 GL	Farm or Lease Name: Federal
Csg. Size: 5 1/2"OD	Wt.: 17#	d:	Set At: 10,050	Perforations: From 9968 To 9983	Well No.: 1
Tbg. Size: 2 7/8"OD	Wt.: 7.9#	d: C-75	Set At: 9,931	Perforations: From ~~9968~~ To ~~9983~~	Unit: I Sec.: 24 Twp.: 20 Rge.: 25
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: 9931		County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 163@9931	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 14.5		State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
9931	9931	.576	0.64	0.37	0		X	

	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	4"	X	1.00	3014			3014	84	--	--	--
1.	4"	X	1.00	2666	14	71	2666	84	--	--	30 min.
2.	4"	X	1.00	2476	26	65	2476	85	--	--	30 min.
3.	4"	X	1.00	2016	42	64	2016	87	--	--	30 min.
4.	4"	X	1.00	1477	44	60	1477	90	--	--	30 min.
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	6292.88	57.96	240	.9896	1.0215	1.018	374
2.	6292.88	100.65	390	.9952	1.0215	1.030	662
3.	6292.88	161.74	630	.9963	1.0215	1.049	1091
4.	6292.88	187.62	800	1.0000	1.0215	1.063	1280
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	3.98	531	1.495	0.772
2.	3.70	525	1.480	0.762
3.	3.06	524	1.475	0.760
4.	2.22	520	1.465	0.792
5.				

Gas Liquid Hydrocarbon Ratio 0 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons -- Deg.
Specific Gravity Separator Gas .576 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX .576
Critical Pressure 674 P.S.I.A. 674 P.S.I.A.
Critical Temperature 355 R 355 R

P_c 3718 P_c^2 13829

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		3302	10903	2926.4
2		3073	9443	4386.1
3		2510	6304	7525.0
4		1843	3399	10430.1
5				

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

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

Absolute Open Flow 1530 Mcfd @ 15.025 Angle of Slope θ 53.5° Slope, n .740

Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Wireline Service Co.		