

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

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 11-1-72		JUL 12 1973	
Company Belco Petroleum Corporation				Connection None		D. C. C.	
Pool Wildcat				Formation Strawn		Unit ARTESIA, OFFICE	
Completion Date 11-1-72		Total Depth 11,656'		Plug Back TD 10,498		Elevation 3094' GR	
Csg. Size 5-1/2"		Set At 11,656'		Perforations: From 10,292 To 10,317		Well No. 1	
Tag. Size 2 7/8		Set At 11,088'		Perforations: From _____ To _____		Unit Sec. Twp. Rye. H 8 22-S 27-E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 10,164		County Eddy	
Producing Thru 2 7/8" tbg.		Reservoir Temp. °F NA		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
L 10/64		H 10,305 IX		G _g 0.65		Prover 6" x 1.75	
		% CO ₂ --		% N ₂ --		% H ₂ S --	
						Meter Run Flange	

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
1.	6.065	1.750	605	12	55	3543	64	--	--	--	60 min.
2.	6.065	1.750	605	22	78	3366	64	--	--	--	"
3.	6.065	1.750	612	51	73	3263	65	--	--	--	"
4.	6.065	1.750	615	79	68	3218	65	--	--	--	"
5.						3126	67	--	--	--	

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 _{pv}	Rate of Flow Q, Mcfd
1.	14.61	86.13	618.2	1.005	1.240	1.068	1,674
2.	14.61	116.62	618.2	.9831	1.240	1.059	2,199
3.	14.61	178.55	625.2	.9877	1.240	1.061	3,380
4.	14.61	222.77	628.2	.9924	1.240	1.062	4,254
5.							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	.92	515	1.37	.874	33.46	1.068	1,674
2.	.92	538	1.43	.901	NA	1.059	2,199
3.	.93	533	1.42	.889	0.650	1.061	3,380
4.	.94	528	1.41	.885	670	1.062	4,254
5.							

NO.	P _t	P _w	P _w ²	P _t ² - P _w ²
1.	11330	4455.2	19847	2659
2.	10647	4333.2	18775	3731
3.	10356	4026.2	16209	6297
4.	9772	3769.2	14205	8301
5.				

(1) $\frac{P_t^2}{P_t^2 - P_w^2} = 6.032$

ΔOP = Q $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 9,750$

(2) $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 4.434$

Absolute Open Flow 9,750 Mcfd @ 15.025		Angle of Slope θ 50.5	Slope, n .830
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Remarks: Bottom hole pressures taken w/Amerada RPG-3 pressure element.
Well shut in 64 hrs. @ start of open flow.

Approved by Commission:	Conducted By: <i>Chas. A. Lutz</i>	Calculated By: <i>Chas. A. Lutz</i>	Checked By:
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