

MULTIPOINT

MEXICO OIL CONSERVATION COMMISSION

ONE POINT BACK PRESSURE TEST

FOR GAS WELL

Form O-122
Revised 5-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 3-6/7-72		MAY 3 1972	
Company Belco Petroleum Corporation						Connection None		B. C. C.	
Pool Wildcat						Formation Morrow		Unit James Ranch Unit	
Completion Date 3-7-72		Total Depth 15,595'		Plug Back TD 15,200'		Elevation 3311'		Farm or Lease Name James Ranch Unit	
Csg. Size 5-1/2"	Wt. 23#	d 15.450'	Set At 15.450'	Perforations: 14,244'-56"; 14,261'-68"		No. 3			
Tub. Size 2-7/8"	Wt. 7.9#	d 13.600'	Set At 13.600'	Perforations: From Open Ended To		Unit J 1 23-S 30-E			
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single						Packer Set At 13,600'		County Eddy	
Producing Thru 2-7/8" Tubing		Reservoir Temp. °F 227° 14,266		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2		State New Mexico	
L	H	G _g .579	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run 4"	Taps Flange	

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.	
1.	4"	3	335	20	71	560	84	--	--	2 hours
2.	4"	3	300	18	44	1021	83	--	--	2 hours
3.	4"	3	285	15	62	1392	78	--	--	2 hours
4.	4"	3	260	11	56	1798	71	--	--	2 hours
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 _{pv}	Rate of Flow Q, Mcfd
1.	51.64	83.5	348.2	.9896	1.314	1.022	5730
2.	51.64	75.1	313.2	1.0160	1.314	1.028	5322
3.	51.64	66.9	298.2	.9981	1.314	1.023	4635
4.	51.64	54.8	273.2	1.004	1.314	1.023	3819
5.							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	None	Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons	None	Deg.
2.					Specific Gravity Separator Gas	XXXXXXX	
3.					Specific Gravity Flowing Fluid	XXXXX	
4.					Critical Pressure	P.S.I.A.	P.S.I.A.
5.					Critical Temperature	R	R

P _c 5185.2	P _c ² 26,884			
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1.	1729.2	2989	23,895	
2.	1896.2	3595	23,289	
3.	2187.2	4783	22,101	
4.	2577.2	6641	20,243	
5.				

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

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

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

Absolute Open Flow	6,500	Mcf/d @ 15.025	Angle of Slope θ	45°	Slope, n	1.000
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Remarks: Bottom hole pressures taken with Amerada RPG-3 element

Approved By Commission:	Conducted By: Tom Hansen Company	Calculated By: Chas Lutz	Checked By:
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