

NE MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST, OR GAS WELL

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 10-7-68	
Company Phillips Petroleum Company			Connection Shut in pending connection		
Pool Undesignated-Wolfcamp			Formation Wolfcamp		Unit North Wilson Deep Unit
Completion Date 9-20-68		Total Depth 11605	Plug Back TD 10870	Elevation	Farm or Lease Name Wilson "J"
Csg. Size 5-1/2"	Wt. 17#, 20#	d Set At 11605	Perforations: From 10396 To 10406		Well No. 1
Tbg. Size 2-3/8"	Wt. 4.7	d Set At 10429	Perforations: From To		Unit Sec. Twp. Rys. 0 5 21S 35E
Type Well - Single - Bradenhead - G.O. or G.O. Multiple			Packer Set At 10366		County Lea
Producing Thru Tubing		Reservoir Temp. °F 162 @ 11600	Mean Annual Temp. °F 60	Baro. Press. - P _a 13.2	State New Mexico
L 10429	H 10429	Gg .710	% CO ₂ 0	% N ₂ 1.40	% H ₂ S 0
Prover 2"		Meter Run	Taps		

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.		Temp. °F
SI							2195	60	Packer		
1.	2:00 x 1.00			5.9		69	2000	14	"		1 hr.
2.	2:00 x 1.00			17.7		39	1740	25	"		1 hr.
3.	2:00 x 1.50			22.1		11	1313	25	"		1 hr.
4.	2:00 x 1.50			24.6		16	1213	35	"		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 F _g	Super. Compress. Factor, F _{pv}	Rate of Flow Q, Mscf
1	17.09		19.1	0.9915	1.187	1.000	32%
2	17.38		30.9	1.0210	1.187	1.000	64%
3	42.31		35.3	1.0510	1.187	1.000	1,85%
4	40.11		37.8	1.0450	1.187	1.000	1,87%
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	.023	529	1.35	1.000	5.7	50.7	.710	XXXXXX	667	392
2	.046	499	1.27	1.000						
3	.053	471	1.20	1.000						
4	.057	476	1.21	1.000						
5										

P _r 2203.2 P _w 1876.1				(1) $\frac{P_r^2}{P_r^2 - P_w^2} = \frac{4976.1}{3221.5} = 1.514$ $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = \frac{(1.514)^{1.00}}{1.00}$	
NO.	P _r	P _w	P _r ²	P _w ²	P _r ² - P _w ²
1		2015.7	4063.0	813.1	
2		1777.3	3158.2	1717.3	
3		1406.1	1978.0	2682.1	
4		1224.3	1500.6	3221.5	
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Absolute Gas Flow		2989	Mscf @ 15.025	Angle of Slope @	45	Slope, n	1.00
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Remarks: * PV from computer program #4137 base on IOD Manual.

Approved By Commission: <i>[Signature]</i>	Conducted By: W. D. Adcock	Calculated By: D. E. Simpson	Checked By:
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