

N MEXICO OIL CONSERVATION COMM ON
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 8-9-72				
Company Read & Stevens, Inc.				Connection Phillips Pet Co.					
Pool Buffalo Valley				Formation Penn. (Atoka)				Unit	
Completion Date 7-31-72		Total Depth 8842		Plug Back TD 8625		Elevation 3572 KB		Farm or Lease Name Piatt State "Co."	
Csg. Size 5 1/2	Wt. 17	d 4.892	Set At 8842	Perforations: From 8625 To 8656			Well No. 1		
Tbg. Size 2 3/8	Wt. 4.6	d 1.995	Set At 8235	Perforations: From open end To			Unit D Sec. 18 Twp. 15S Rge. 28E		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 8235		County Chaves			
Producing Thru 2 3/8 Tubing		Reservoir Temp. °F 142 @ 8800		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.3		State N. Mexico	
L 8235	H 8235	G _g .650	% CO ₂ —	% N ₂ —	% H ₂ S —	Prover 20WT	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	24ms SI						24 1/2	—			24ms.
1.			8/64				2140	70	PK		60"
2.			10/64				1845	69	PK		60"
3.			12/64				1490	70	PK		60"
4.			14/64				1040	70	PK		60"
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.							322
2.							608
3.							735
4.							878
5.							

Volumes taken from Phillips 4 Point taken on 8-9-72. Data enclosed w/ C-122

NO.	P _t	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.	3.2134	530	1.4133	0.711	66.0	63	.650	XXXXXXX	670	375
2.	2.7731	529	1.4107	0.724						
3.	2.2239	530	1.4133	0.756						
4.	1.5716	530	1.4133	0.818						
5.										

NO.	P _c	P _w	P _w ²	P _c ² - P _w ²
1.	4635.4		46498	14712
2.	3452.2		3479.5	2641.5
3.	2258.0		2295.1	3825.9
4.	1108.8		1141.1	4979.9
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 Oper. Flow 1040 Mcfd @ 15.025	Angle of Slope θ _____	Slope, n 644
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Remarks: _____

Approved By Commission: _____	Conducted By: Phillips Pet. Co.	Calculated By: G. A. Snow	Checked By: _____
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