

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

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 10/14/81	
Company BTA OIL PRODUCERS			Connection PHILLIPS PETROLEUM COMPANY			
Pool Antelope Ridge (Atoka)			Formation Atoka		Unit	
Completion Date 4/10/81		Total Depth 13,600'		Plug Back TD 13,015'		Elevation 3358' GR
Farm or Lease Name Antelope, 8006 JV-P						
Csg. Size 7-5/8"	Wt. 39#	Set At 13,093'	Perforations: From 12,241' To 12,265'		Well No. 1	
Tbg. Size 3 1/2"	Wt. 10.3#	Set At 12,047'	Perforations: From - - To - -		Unit Sec. Twp. Rge. F 2 23-S 34-E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 11,953'		County Lea
Producing Thru Tbg		Reservoir Temp. °F #		Mean Annual Temp. °F		State New Mexico
L 12,241	H 12,241	Gg 0.6783	% CO ₂ 0.39	% N ₂ 0.23	% H ₂ S 0	Prover Meter Run Taps X X F

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	
SI							6102	80			
1.	4.026	x	2.750	180	3	96	5875	80	Pkr		1 hr.
2.	4.026	x	2.750	210	8	83	5520	80	Pkr		1 hr.
3.	4.026	x	2.750	240	15	80	5015	80	Pkr		1 hr.
4.	4.026	x	2.750	265	27	60	4255	80	Pkr		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, Mcfd
1	41.10		193.2	0.9671	1.214	1.0169	1181
2	41.10		223.2	0.9786	1.214	1.0212	2107
3	41.10		253.2	0.9813	1.214	1.0244	3091
4	41.10		278.2	1.0000	1.214	1.0314	4460
5							

NO.	P _t	Temp. °R	T _f	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.	0.29		1.46	0.967	12,229 Mcf/bbl.	53.0 Deg.	0.6783	XXXXXXX	669 P.S.I.A.	382 R
2.	0.33		1.42	0.959				0.911	662 P.S.I.A.	461 R
3.	0.38		1.41	0.953						
4.	0.42		1.36	0.940						
5.										

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{37396}{19045}$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.7152$
1	34671		34683	2713	$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 7650$	
2	30605		30642	6754		
3	25283		25356	12040		
4	18218		18351	19045		
5						

Absolute Open Flow 7650 Mcfd @ 15.025 Angle of Slope @ 51.35° Slope, n 0.7996

Remarks: _____

Approved By: <u>Commissioner</u>	Conducted By: _____	Calculated By: <u>O.V. Lingo</u>	Checked By: <u>O.V. Lingo</u>
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