

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

Form C-122
Revised 9-1-65

JAN 24 1975

Type Test ☐ Initial ☐ Annual ☒ Special						Test Date 1/20/75			
Company Pelmont Oil Corporation				Connection Tranwestern Pipeline Company				O.C.C. ARTESIA, OFFICE	
Pool Atoka Penn				Formation Morrow				Unit	
Completion Date 11/29/74		Total Depth 9311		Plug Back TD 9261		Elevation 3300 KB		Farm or Lease Name Atoka Com	
Csq. Size 4 1/2	Wt. 10.5 11.6	d 4.052 4.00	Set At 9310	Perforations: 9042 To 9068 From 9126 To 9132		Well No. 2			
Thg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 8895	Perforations: From Open To Ended		Unit P	Sec. 12	Twp. 18S	Rge. 26E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 8895 KB		County Eddy			
Producing Thru Tubing		Reservoir Temp. °F 147° 8864		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2		State New Mexico	
L 8895	H 8895	Gg .610	% CO ₂ 0.51	% N ₂ 0.33	% 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.	Temp. Choke	
SI							2914				74 hrs
1.	4.0	x	1.875	570	15	82	2760	77		10/64	1 hr
2.	4.0	x	1.875	580	32	72	2675	80		12/64	1 hr
3.	4.0	x	1.875	590	65	74	2525	77		16/64	1 hr
4.	4.0	x	1.875	600	95	74	2390	76		19/64	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	17.26	93.53	583.2	.9795	1.280	1.046	2117
2	17.26	137.78	593.2	.9887	1.280	1.051	3163
3	17.26	198.01	603.2	.9868	1.280	1.050	4533
4	17.26	241.36	613.2	.9868	1.280	1.051	5530
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	230.4 Mcf/bbl.
					A.P.I. Gravity of Liquid Hydrocarbons	55.9 Deg.
1	.87	583.2	1.50	.914	Specific Gravity Separator Gas	.610 XXXXXXXX
2	.88	593.2	1.47	.906	Specific Gravity Flowing Fluid	XXXXXX .7551
3	.89	603.2	1.48	.907	Critical Pressure	674* P.S.I.A.
4	.91	613.2	1.48	.905	Critical Temperature	362* R
5						

P _c 2927.2	P _c ² 8568.5	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 4.168$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.261$
NO.	P _t ²	P _w	P _w ²
1	2794.5	7809.2	759.3
2	2737.0	7491.2	1077.3
3	2646.5	7004.0	1564.5
4	2552.0	6512.7	2055.8
5			

Absolute Open Flow		18,033 Mcfd @ 15.025	Angle of Slope @	50° 22'	Slope, n	.828
Remarks: * From gas analysis.						
Approved By Commission:						
Conducted By:		Larry Davis		Calculated By:		Donna Holler
Checked By:		Donna Holler				