

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

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 11-21-81		DEC 3 1981	
Company AMOCO PRODUCTION COMPANY				Connection TRANSWESTERN		O. C. D.	
Pool HOAG TANK MORROW				Formation MORROW		Unit ARTESIA, OFFICE L	
Completion Date 1-31-81		Total Depth 8744'		Plug Back TD 8705'		Elevation 3737 GL	
Csg. Size 5.5		Wt. 15.5 & 17		Set At 4.892 8744		Perforations: From 8510 To 8520	
Tub. Size 2.375		Wt. 4.7		Set At 1.995 8354		Perforations: From To	
Type Well - Single - Dradhead - G.G. or G.O. Multiple SINGLE				Packer Set At 8252		County EDDY	
Producing Thru TBG		Reservoir Temp. °F 160 @ 8515		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
L 8515		H 8515		G _g .60		% CO ₂ % H ₂ % H ₂ S Prover	
						Meter Run 2" FLANGE 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				0	0	53	777	53	PKR	PKR	48
1.	2" x 1.375"			570	1	58	612	58	PKR	PKR	.45
2.	2" x 1.375"			580	1	58	572	58	PKR	PKR	.15
3.				SEE REMARKS BELOW							
4.				SEE REMARKS BELOW							
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.	10.20	24.149	583.2	1.002	1.291	1.052	335
2.	10.20	24.356	593.2	1.002	1.291	1.054	340
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	No Fluid	Mcf/bbl.
1.	.87	515	1.45	.903	A.P.I. Gravity of Liquid Hydrocarbons		Deg.
2.	.88	518	1.45	.901	Specific Gravity Separator Gas	.60	XXXXXX
3.					Specific Gravity Flowing Fluid	XXXXXX	
4.					Critical Pressure	671	P.S.I.A.
5.					Critical Temperature	358	R

P _c 790.2 P _c ² 624.4	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 7.7086$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.77644$
NO. P _i ² P _w P _w ² P _c ² - P _w ²		
1 625.2 746 556.1 68.3		
2 585.2 737 543.4 81.0		
3		
4		
5		

Absolute Open Flow 945 Mcfd @ 15.025			Angle of Slope θ 63.4°	Slope, n .50
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Remarks: Unable to obtain 3rd and 4th point because FTP was lowered to the point that it equalled line pressure after the first two points.			
Approved By Commission:	Conducted By: John West Engr. Co.	Calculated By: L. W. Sheppard	Checked By: L. W. Sheppard