

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	
Company AMOCO PRODUCTION COMPANY		Connection EL PASO NATURAL GAS COMPANY	
Pool WILDCAT		Formation MORROW	
Completion Date 6-29-81	Total Depth 15920	Plug Back TD 15050	Elevation 3664
Farm or Lease Name STATE IG COM			Well No. 1
Csg. Size 4.500	Wt. 15.1	d 3.826	Set At 15920.
Perforations: From 14984. To 15004.		Well No. 1	
Inq. Size 2.375	Wt. 4.7	d 1.995	Set At 14724.
Perforations: From 0. To 0.		Unit B Soc. 32 Twp. 23 Rge. 32	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple SINGLE		Packer Set At 11387.	County LEA
Producing Thru TUBING	Reservoir Temp. °F 201 @ 14994	Mean Annual Temp. °F 60.0	Baro. Press. - P _a 13.2
State NEW MEXICO			
L 14994	H 14994	G _g 0.576	% CO ₂ 0.91
% N ₂ 0.29	% H ₂ S 0.	Provor 0.	Meter Run 4.0
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. °F
SI							5796.	79.			46.0
1.	4.00 X 1.500			721.	7.8	85.	4820.	81.	0.	0.	1.0
2.	4.00 X 1.500			721.	13.7	85.	4342.	85.	0.	0.	1.0
3.	4.00 X 1.500			726.	24.0	80.	3625.	87.	0.	0.	1.0
4.	4.00 X 1.500			726.	34.8	73.	2800.	87.	0.	0.	1.0
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.	10.85	75.87	734.2	0.9768	1.3180	1.0435	1111.
2.	10.85	100.26	734.2	0.9768	1.3180	1.0435	1468.
3.	10.85	133.22	739.2	0.9813	1.3180	1.0508	1964.
4.	10.85	160.41	739.2	0.9877	1.3180	1.0535	2386.
5.							

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.	1.08	545.	1.56	0.910	0.	0.	0.576	X X X X X X X X	677.	349.
2.	1.08	545.	1.56	0.910	0.	0.	0.576	X X X X X X X X	677.	349.
3.	1.09	540.	1.55	0.906	0.	0.	0.576	X X X X X X X X	677.	349.
4.	1.09	533.	1.53	0.901	0.	0.	0.576	X X X X X X X X	677.	349.
5.										

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1.	23360.	4806.	23102.	10645
2.	18968.	4324.	18700.	15047
3.	13236.	3610.	13029.	20718
4.	7914.	2796.	7820.	25927
5.				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.3016$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3008$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.2607$

Absolute Open Flow	3008	Mcfd @ 15.025	Angle of Slope θ	48.7	Slope, n	0.879
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Remarks:			

Approved By Commission: JERRY S. ...	Conducted By: John West Eng.	Calculated By: R. Whitten	Checked By: L. W. Sheppard
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