

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		Date 9-1-76	
Company El Paso Natural Gas Company		Connection El Paso Natural Gas Co.	
Pool Jalmat		Formation Jalmat	
Completion Date		Perforation TD 3145	Location Langlie Federal
Well No. 51	Set At 2866	From To	Well No. 3
Log Size 2.375	Log Size 4.7	Set At 3070	Perforations: From 3050 To 3054
Type Well - Single - Plughead - G.G. or G.O. Multiple Single		Packer Set At	County Lea
Producing thru Tbr.	Reservoir Temp. °F A	Mean Annual Temp. °F	State New Mexico
L	H	G ₁	% CO ₂ % N ₂ % H ₂ S Prover
		.665	Meter Run 4"
			Flag

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.	
51							207		207	Shut-in 48 hr.
1.	4	x	.750	28	11.9	72	185		187	1 hr.
2.	4	x	.750	30	25.0	78	165		167	1 hr.
3.	4	x	.750	31	44.2	82	139		142	1 hr.
4.	4	x	.750	31	67.2	81	105		114	1 hr.
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 _{sc}	Rate of Flow Q, Mcf/D
1	2.661	22.14	41.2	.9887	1.226	Nil	71
2	2.661	32.86	43.2	.9831	1.226	Nil	105
3	2.661	44.20	44.2	.9795	1.226	Nil	141
4	2.661	54.50	44.2	.9804	1.226	Nil	174
5							

NO.	P _t	Temp. °F	T _i	Z	Gas-Liquid Hydrocarbon Ratio	Mc/Abbl.
1	.06	532	1.41	Nil	A.F.L. Gravity of Liquid Hydrocarbon	Dep.
2	.06	538	1.42	Nil	Specific Gravity Separator Gas	XXXXXX
3	.07	542	1.43	Nil	Specific Gravity Flowing Fluid	XXXXXX
4	.07	541	1.43	Nil	Critical Pressure	PSIA
5					Critical Temperature	°R

NO.	P _t	P _w	P _t ²	P _w ² - P _t ²	(1) $\frac{P_t^2}{P_w^2 - P_t^2} =$	(2) $\left[\frac{P_t^2}{P_w^2 - P_t^2} \right]^n =$
1	220.2	48.5	40.1	8.4	1.502	1.333
2	180.2	32.5	16.0			
3	155.2	24.1	24.4			
4	127.2	16.2	32.3			
5						

Applied to the Flow	232	Mc/D @ 14.7 PSIA	Applied to the Flow	54.75	Mc/D @ 14.7 PSIA
Remarks: No way to measure fluid, made a very small amount.					

Approved by Commission	Conducted by	Calculated by	Checked by
<i>John W. Remyan</i>	Reggie Reston	Reggie Reston	

RECEIVED

APR 1975

U. S. DEPARTMENT OF COMMERCE
WASHINGTON, D. C.