

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 7-30-80	
Company ARCO Oil & Gas Company				Connection El Paso Natural Gas Company			
Pool Undesignated				Formation Devonian		Unit	
Completion Date 7-30-80		Total Depth 15656		Plug Back TD 15540		Elevation 3488 G.L.	
Form or Lease Name Langley Griffin Com.		Well No. 1					
Csg. Size 7	Wt. 29	d 6.184	Set At 15638	Perforations: From 12435 To 12668		Unit Sec. Twp. Rge. J 28 22S 36E	
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 12328	Perforations: From Open To Ended			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Dual Tbg. - Tbg.				Packer Set At 12312		County Lea	
Producing Thru Tbg.		Reservoir Temp. °F 172 @ 12551.5		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2	
State New Mexico							
L 12328	H 12328	Cg 0.753	% CO ₂ 1.68	% N ₂ 1.81	% H ₂ S 0.7	Provor -	Meter Run 4"
						Taps Flg.	

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow
NO.	Provor Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI							2717		Pkr.
1.	4" x 1.75"			327	1.0	87	2371	78	2 Hrs.
2.	4" x 1.75"			349	6.76	87	2211	77	2 Hrs.
3.	4" x 1.75"			334	11.90	86	2078	77	2 Hrs.
4.	4" x 1.75"			360	18.92	84	1955	77	2 Hrs.
5.									

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	14.93	18.44	340.2	0.9750	1.152	1.038	321
2	14.93	49.48	362.2	0.9750	1.152	1.040	863
3	14.93	64.28	347.2	0.9759	1.152	1.039	1121
4	14.93	84.03	373.2	0.9777	1.152	1.041	1471
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1	0.51	547	1.37	0.929	6.293	
2	0.54	547	1.37	0.924	55.4	
3	0.52	546	1.37	0.927	0.753	
4	0.56	544	1.36	0.922		
5						

NO.	P _r	P _w	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} =$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n =$
1	4754.2	22602.4			2.9646	2.2276
2						
3						
4						
5						

Absolute Open Flow		3277	Mcf @ 15.025	Angle of Slope @	53.60	Slope, n	0.737
--------------------	--	------	--------------	------------------	-------	----------	-------

Remarks: BHP measured at mid point of perforations 12551.5. Well produced 50 B.O. (55.4 API @ 60°) & 0 B.W. during test. Devonian Gas and Ellenburger Gas Dual

Completion Perfs. at 12312 and 15180.

Approved by Commission: Jerry Sexton Dist. 1. Supv.	Conducted By: C. Johnson	Calculated By: J. Cogburn	Checked By: L.C. Hudry
---	-----------------------------	------------------------------	---------------------------