

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-117
Revised 9-1-65

RECEIVED

☒ Initial ☐ Annual ☐ Special				Date: 12-3-79		DEC 7 - 1979	
Company: J. C. Barnes				Connection: El Paso Natural Gas Company		Unit: ARTEZIA, OFFICE	
Well: Dublin Ranch				Location: Morrow		Form or Lease Name: Big Chief Co.	
Completion Date: 11-16-79		Total Depth: 12743		Flow back To: 12626		Elevation:	
Log Size: 4 1/2	Wt.: 7.6	Gr: 3.958	Set At: 12743	Perforations: From 12000 To 12418	Well No. 4		
Log Size: 2 3/8	Wt.: 4.7	Gr: 1.995	Set At: 11713	Perforations: From To	Unit: 15 Sec: 22S Twp: 28E		
Type Well - Single - Production - G.G. or G.O. Multiple				Packer Set At: 11713		County: Eddy	
Producing Thru		Reservoir Temp. °F: 194		Mean Annual Temp. °F: 12272		State: New Mexico	
Eq. L: 12030	H: 12030	Gg: .585	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run: 4" Flange

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	LINE SIZE	X	CRISLEE SIZE	Press. p.s.i.g.	Diff. In.	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI							2451		Pkr		72 hrs.
1.	4	x	1.250	370	4	67	2392	61			1 hr.
2.	4	x	1.250	374	9	74	2298	67			1 hr.
3.	4	x	1.250	370	22	80	2160	70			1 hr.
4.	4	x	1.250	371	45	81	1918	71			1 hr.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w F_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mhd
1	7.469	39.15	383.2	.9933	1.307	1.030	391
2	7.469	59.03	387.2	.9868	1.307	1.029	585
3	7.469	91.82	383.2	.9813	1.307	1.028	904
4	7.469	131.49	384.2	.9804	1.307	1.027	1292
5.							

NO.	P _r	Temp. °F	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.	.57	527	1.51	.943			.585		672	350
2.	.58	534	1.53	.945						
3.	.57	540	1.54	.947						
4.	.57	547	1.55	.943						
5.										

NO.	P _r ²	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	2406.6	5791.9	280.6	2.666	1.939
2	2314.0	5394.6	717.7		
3	2179.9	4752.0	1320.3		
4	1948.0	3794.7	2277.6		
5					

Absolute Open Flow				Angle of Slope	
2,505		Mhd @ 15.025		56.0	
				Slope, n .675	

Remarks: Made .5 hpl. water and no condensate

Approved by: T. R. Kiker	Conducted by: T. R. Kiker	Calculated by: T. R. Kiker	Checked by:
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