

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2080
SANTA FE, NEW MEXICO 87501Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 2-21-80			
Company El Paso Natural Gas Company				Connection				
Pool Blanco				Formation Pictured Cliff				Unit
Completion Date 1-25-80		Total Depth 5439		Plug Back TD 5421		Elevation		Form or Lease Name Kelly
Csg. Size 7"	Wt. 20.0	d 6.456	Set At 3098	Perforations From 2657 To 2750		Well No. 2A (PC)		
Tub. Size 1 1/4	Wt. 2.33	d 1.660	Set At 2725	Perforations From To		Unit Sec. Twp. Rpt. J 35 30 10		
Type Well - Single - Branchhead - G.G. or G.O. Multiple Dual - G.G.					Packer Set At 2939		County San Juan	
Producing thru Casing		Reservoir Temp. *F p		Mean Annual Temp. *F		Baro. Press. - P _a		State New Mexico
L	H	G _g	% CO ₂	% N ₂	% H ₂ S	XXXXX Choke		Meter Run Taps

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
NO.	XXXXX X XXXXX XXXXX	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						776		776		
1.		.750	73		56					3 Hrs.
2.										
3.										
4.										
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _L	Gravity Factor F _g	Super. Compress. Factor, F _{py}	Rate of Flow Q, Mfd
1	12.3650		85	1.004	.9608	1.009	1023
2.							
3.							
4.							
5.							

NO.	P _t	Temp. *R	T _g	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf, gal.	
1					A.P.L. Gravity of Liquid Hydrocarbons _____ Deg.	
2.					Specific Gravity Separator Gas .650	XXXXXXXXXXXX
3.					Specific Gravity Flowing Fluid XXXXX	
4.					Critical Pressure _____ P.S.I.A.	P.S.I.A.
5.					Critical Temperature _____ R	R

P _t 788	P _w 620944		
NO.	P _t	P _w	P _t ² - P _w ²
1		100	10000
2			610944
3			
4			
5			

(1) $\frac{P_t^2}{P_t^2 - P_w^2} = 1.0164$ (2) $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 1.0139$

AOF = Q $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 1037$

Absolute Open Flow 1037		Mcf @ 15.025	Angle of Slope	Slope, n .85
-------------------------	--	--------------	----------------	--------------

Remarks: 4.500 Liner - Top 2928' - Bottom 5439'

Approved by Division	Conducted By: C. Rhames	Calculated By: C.R. Wagner	Checked By:
----------------------	-------------------------	----------------------------	-------------