

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED
Form 122
Rev. 9-1-65

MAR 14 1975

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 2-20-75		O. C. C.	
Company David Fasken				Connection El Paso Natural Gas Co.				ARTESIA, OFFICE	
Pool <i>Cavalon</i> Undesignated (Morrow)				Formation Morrow				Unit	
Completion Date 1-9-75		Total Depth 11206		Plug Back TD 10,986		Elevation 3192 GL		Farm or Lease Name El Paso Federal	
Csg. Size 4 1/2"	Wt. 13.50	d 3.920	Set At 11115	Perforations: From 10648 To 10870		Well No. 4			
Tbg. Size 2 7/8"	Wt. 6.50	d 2.441	Set At 10442	Perforations: From To		Unit C	Sec. 3	Twp. 21S	Rge. 26E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single Gas						Packer Set At 10430		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 175 @ 10550		Mean Annual Temp. °F 70		Baro. Press. - P _a 13.2		State New Mexico	
L 10759	H 10759	G _g 0.589	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run X	Taps	

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.	
SI					L-10		2751		Pkr	
1.	4"	X	2.75"	592.9	1	69	2680	70		
2.	4"	X	2.75"	600.6	2	69	2603	70		60 min.
3.	4"	X	2.75"	624.1	2.75	66	2508	70		60 min.
4.	4"	X	2.75"	656.1	3.75	62	2318	70		60 min.
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	41.10	4.472x1 x7.7	592.9	0.9915	1.303	1.048	1916.2
2	41.10	4.472x2 x7.75	600.6	0.9915	1.303	1.048	3857.2
3	41.10	4.472x2.75x7.9	624.1	0.9943	1.303	1.051	5437.1
4	41.10	4.472x3.75x8.1	656.1	0.9981	1.303	1.057	7674.6
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	481.0 Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons	59.6 Deg.
2	Used simplified				Specific Gravity Separator Gas	0.589
3	supercompressibility tables				Specific Gravity Flowing Fluid	X X X X X
4					Critical Pressure	672 P.S.I.A.
5					Critical Temperature	354 R

P _f 3509.2	P _f 12314				
NO.	P _t ²	P _s ²	P _f ² - P _s ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1		3446.2	11876	438	
2		3369.2	11352	962	
3		3283.2	10779	1535	
4		3134.2	9823	2491	
5					

Absolute Open Flow 25,000 Mcfd @ 15.025		Angle of Slope 53° 51'	Slope, n 0.73069
Remarks: Bottom Hole Pressures measured with Amerada RPG-3 pressure gauge Serial No. 31203N 0-6000 psig			
Approved By Commission:	Conducted By: Tefteller, Inc.	Calculated By: F. Tefteller	Checked By: