

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 12-16-78		DEC 26 1978	
Company BLACK RIVER CORPORATION ✓				Connection EL PASO NATURAL GAS CO.			
Pool WILDCAT <i>Woolcamp</i>				Formation WOLFCAMP		Unit O.G.G. ARTEBIA, OFFICE	
Completion Date 10-10-78		Total Depth 12,350'		Plug Back TD 11,160'		Elevation 3102 GR.	
Casing Size 5" LINER		Wt. 26.4		Perforations: From 9,896' - 9,932'		Well No. 1	
Tbg. Size 2 3/8"		Wt. 4.6		Perforations: From OPEN ENDED		Unit Sec. Twp. Rge. C 10 23S 27E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE				Packer Set At 9,545'		County EDDY	
Producing Thru TUBING		Reservoir Temp. °F 170 @ 9,545'		Mean Annual Temp. °F 60		Baro. Press. - P _g 13.2	
L 9554		H 9554		G _g .673		% CO ₂ .16	
				% N ₂ .70		% H ₂ S	
				Prover		Meter Run 4"	
						Taps FLANGE	
FLOW DATA				TUBING DATA		CASING DATA	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.
1.	4"	x	1.250	399	4	60	1942
2.	4"	x	1.250	403	9	81	1800
3.	4"	x	1.250	403	15	80	1662
4.	4"	x	1.250	403	24	80	1536
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.	7.469	40.61	412.2	1.000	1.220	1.048	388
2.	7.469	61.20	416.2	.9804	1.220	1.040	569
3.	7.469	79.01	416.2	.9813	1.220	1.041	735
4.	7.469	99.94	416.2	.9813	1.220	1.041	930
5.							
NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ T.S.T.M. _____ Mcf/bbl.		
1.	.62	520	1.36	.911	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.		
2.	.62	541	1.42	.924	Specific Gravity Separator Gas _____ .673 XXXXXXXXXX		
3.	.62	540	1.41	.923	Specific Gravity Flowing Fluid _____ XXXXX		
4.	.62	540	1.41	.923	Critical Pressure _____ 669 P.S.I.A. _____ P.S.I.A.		
5.					Critical Temperature _____ 382 _____ R _____ R		
P _c 2113.2 P _c ² 4465.6					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.188$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.941$		
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.805$		
1		1956.3	3827.0	638.6			
2		1815.7	3296.8	1168.8			
3		1679.7	2821.5	1644.1			
4		1557.2	2424.8	2040.8			
5							
Absolute Open Flow _____ 1,805 _____ Mcfd @ 15.025					Angle of Slope @ _____ 49.75 _____		Slope, n _____ .847 _____
Remarks: _____							
Approved By Commission:		Conducted By: B.R.D.		Calculated By: R.R.		Checked By: J.W.W.	