

2007-06

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 9/6/1972	
Company Black River Corporation				Connection	
Pool Washington Ranch Morrow				Formation Morrow	
Completion Date 9/02/1972		Total Depth 7100		Plug Back TD 7060	
Elevation 3714 KB		Farm or Lease Name Miller			
Casing Size 5-1/2	Wt. 15.5	Set At 7000	Perforations: 6866 to 6873		Well No. 1
Perf. Size 2-7/8	Wt. 6.5	Set At 6833	Perforations: From and 6945 to 6954		Unit L
Type Well - Single - Draughhead - G.G. or G.O. Multiple Single			Packer Set At 6833		County Eddy
Producing Thru Tubing		Reservoir Temp. °F 126 @ 6910	Mean Annual Temp. °F 60	Baro. Press. - P _a 13.2	State New Mexico
L 6910	H 6910	Gg 0.57	% CO ₂	% N ₂	% H ₂ S
				Prover	Meter Run 4"
				Tape Flange	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. in. H ₂ O	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
5.	44 hours						2528				
1.	4"	x	2.750	338	8	64	2325	72	Packer		70
2.	4"	x	2.750	360	19	66	2129	75	"		60
3.	4"	x	2.750	387	34	50	1891	75	"		90
4.	4"	x	2.750	400	44	50	1745	77	"		40
5.											

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	41.10	53.0	351.2	0.9962	1.325	1.027	2953
2	41.10	84.2	373.2	0.9943	1.325	1.029	4691
3	41.10	116.7	400.2	1.0100	1.325	1.035	6643
4	41.10	134.8	413.2	1.0100	1.325	1.035	7674
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio Dry Gas Mcf/bbl.	A.P.I. Gravity of Liquid Hydrocarbons - - - - - Deg.	Specific Gravity Separator Gas 0.570	Specific Gravity Flowing Fluid XXXXX	Critical Pressure 672 P.S.I.A.	Critical Temperature 346 R
1	0.52	524	1.51	0.948						
2	0.56	526	1.52	0.945						
3	0.60	510	1.47	0.934						
4	0.61	510	1.47	0.933						
5										

NO.	P _r ²	P _w	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 2.181$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.965$
1	5467.18		5525.9	931.8		
2	4589.02		4738.6	1719.1		
3	3625.98		3927.5	2530.2		
4	3091.27		3496.9	2960.8		
5						

AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 15,079$

Revised 9-22-72

Absolute Open Flow 15,079	Mcf/d @ 15.025	Angle of Slope @ 48°	Slope, n 0.916
Remarks:			

Approved by Commission:	Conducted By: J. T. Berry	Calculated By: J. T. Berry	Checked By:
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