

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

Form O-123
Revised 5-1-65

RECEIVED

Type Well ☐ Initial ☐ Annual ☒ Special		Test Date 7-23-74		AUG 14 1974	
Company BLACK RIVER CORPORATION		Connection EL PASO NATURAL GAS COMPANY		D.C.C.	
Field WASHINGTON RANCH		Stratum UPPER MORROW		Unit ARTESIA, OFFICE	
Completion Date JUNE 26, 1975		Total Depth 7125'		Perforations From 6890' To 6904'	
Casing Size 5 1/2"		Casing Weight 14.9#		Perforations From OPEN To ENDED	
Well Size 2 7/8"		Well Weight 6.5#		Unit Sec. Twp. Rng. H 4 26S 24E	
Type Well - Single - Graduated - G.C. or G.C. Multiple SINGLE				Packer Set At 6990'	
Producing Interval TUBING		Reservoir Temp. °F 148° @ 6997'		State NEW MEXICO	
L 6990'		H 6990'		Prover ---	
G _s 0.6524		W _{CS₂} 7.81		W _{N₂} 0.36	
S _{CS₂} -0-		S _{N₂} -0-		Meter Run 4"	
Taps FLANGE					
FLOW DATA					
NO.	Prover Line Size	X	Orifice Size	Press. psid.	Temp. °F
1.	2"	X	2.00"	7.00	110
2.	2"	X	2.00"	7.00	90
3.	2"	X	2.00"	7.00	84
4.	2"	X	2.00"	7.00	80
5.					
RATE OF FLOW CALCULATIONS					
NO.	Coefficient (24 Hour)	1500# - 100'	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g
1.	19.81	3.873	735.0	.9581	1.238
2.	19.81	3.873	735.0	.9725	1.238
3.	19.81	3.873	735.0	.9777	1.235
4.	19.81	3.873	735.0	.9813	1.235
5.					
NO.	P _r	Temp. °F	T _r	Z	Gas Liquid Hydrocarbon Ratio
1.	1.15	573	1.57	.906	A.P.I. Gravity of Liquid Hydrocarbons
2.	1.15	530	1.52	.884	Specific Gravity Separator Gas
3.	1.15	544	1.50	.889	Specific Gravity Flowing Fluid
4.	1.15	540	1.49	.886	Critical Pressure
5.					Critical Temperature
$Q = \frac{1}{14.7} \sqrt{\frac{P_m}{P_r}} = 3.5903$ $\left[\frac{P_m}{P_r} \right]^n = 2.5520$ $\left[\frac{P_m}{P_r} \right]^n = 7093$					
APPROVED: _____ DATE: _____ BY: _____					