

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

RECEIVED

☒ WELL ☐ TEST ☐ REPAIR		Date: 6-1-77		JUN 13 1977	
Company: BELCO PETROLEUM CORPORATION			To: AIR		Office: O.C.C. ARTESIA, OFFICE
Well Name: WILDCAT			Location: Upper Penn		Lease Name: PENNZOIL STATE
Completion Date: 6-1-77		Total Depth: 10,850'		Depth to Gas: 10,174'	
Elevation: 3708.4		Well No.: 1		Unit: B Sec: 16 Twp: 22S Rge: 25E	
Casing Size: 5 1/2" WT: 20# ID: 4.778"		Set At: 9619 To: 9625		From: OPEN To: ENDED	
Tubing Size: 2 7/8" WT: 6.5# ID: 2.441		Set At: 9521		From: OPEN To: ENDED	
Type Well - Single - Broadhead - G.G. or G.O. Multiple: SINGLE				Packer Set At: 9517	
Producing Thru: TUBING				State: NEW MEXICO	
Reservoir Temp. °F: 173 a: 9622		Mean Annual Temp. °F: 60		Baro. Press. - P _a : 13.2	
G _g : 0.6354		% CO ₂ : 0.580		% H ₂ : 0.903	
G _g : 0.6354		% H ₂ S: -		Prover: 4" FLANGE	

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. psia/g.	Diff. hw	Temp. °F	Press. psia/g.	Temp. °F	Press. psia/g.	Temp. °F	
1	4 x 2.00"			350.0	6.0	81	2780.0	78	PACKER	CHOKE	
2	4 x 2.00"			360.0	10.0	78	1762.0	78			12/64" 60 MIN.
3	4 x 2.00"			370.0	16.0	71	1431.0	79			16/64" 60 MIN.
4	4 x 2.00"			370.0	17.0	72	917.0	80			20/64" 60 MIN.
5	4 x 2.00"			370.0			582.0				26/64" 60 MIN.

RATE OF FLOW CALCULATIONS							
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	19.81	46.68	363.2	.9804	1.255	1.029	1171
2	19.81	61.09	373.2	.9831	1.255	1.031	1539
3	19.81	78.30	383.2	.9896	1.255	1.034	1992
4	19.81	80.71	383.2	.9887	1.255	1.034	2051
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	None	Mc/abl.
1	0.54	541	1.49	.944	A.P.I. Gravity of Liquid Hydrocarbons	None	Req.
2	0.55	538	1.48	.941	Specific Gravity Separator Gas	XXXXXX	
3	0.57	531	1.46	.936	Specific Gravity Flowing Fluid	XXXXX	
4					Critical Pressure	673	P.S.I.A.
5					Critical Temperature	364	R

F ₁ 3818.2 P ₁ 14579				$\frac{F_1^2}{F_1^2 - F_2^2} = 1.086$		$\left[\frac{F_1^2}{F_1^2 - F_2^2} \right]^n = 1.078$	
NO.	F ₁	F ₂	F ₃	F ₁ - F ₂			
1	2671.2	7135	7444				
2	2101.2	4415	10164				
3	1482.2	2197	12382				
4	1072.2	1150	13429				
5							

Absolute Gas Flow: 2211		Angle of Slope: 47.6°		Slope, n: .914	
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Remarks: **BOTTOM HOLE PRESSURE MEASURED WITH AMERADA GAGE @ 9622'**

Approved by Commission:	Conducted By:	Calculated By:	Checked By:
	G.J.P.	R.L.W.	J.W.W.