

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

Form C-122
Revised 9-1-65

RECEIVED

Type Test 4 POINT ☒ Initial ☐ Annual ☐ Special				Test Date 9-7-82		SEP 20 1982	
Company PENNZOIL <i>Co</i>				Connection AIR NEW WELL			
Pool WHITE CITY <i>Perm</i>				Formation MORROW		Unit ARTESIA, OFFICE	
Completion Date 8-27-82		Total Depth 11,500		Plug Hole 11,432		Elevation 0	
Casing Size 4.5000		Wt. 11.60		d 4.0		Set At 11,500	
Tub. Size 2.375		Wt. 4.70		d 1.995		Set At 10,892	
Performations: From 11,048 To 11,409				Well No. 1			
Performations: From OPEN To ENDED				Unit <i>F</i>		Sec. 21	
Type Well - Single - (Noddenhead - G.O. or G.O. Multiple) SINGLE				Packer Set At 10,892		County EDDY	
Producing thru TUBING		Reservoir Temp. °F 182 @ 11,228		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2	
State NEW MEXICO		L 11,228		H 11,228		Q _g 0.578	
% CO ₂ 1.10		% N ₂ .76		% H ₂ S .0		Prover .0	
Meter Run 4.0		Tape FLANGE					

FLOW DATA							TUBING DATA		B.H.P. 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.	CHOKE	
51							1856	88			72 HRS
1.	4.03	X	1.00	400	4.0	106	1756	84	.00	3/64	1 HR
2.	4.03	X	1.00	405	6.5	110	1707	90	.00	5/64	1 HR
3.	4.03	X	1.00	400	15.0	108	1577	92	.00	7/64	1 HR
4.	4.03	X	1.00	400	23.0	100	1426	90	.00	10/64	1 HR
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super. Compress. Factor, F _{sp}	Rate of Flow O. Mcd
1	4.75	40.65	413.2	0.9585	1.3151	1.0233	249.
2	4.75	52.14	418.2	0.9551	1.3151	1.0229	318.
3	4.75	78.73	413.2	0.9567	1.3151	1.0229	482.
4	4.75	96.49	413.2	0.9636	1.3151	1.0243	601.
5							

NO.	P ₁	Temp. °R	T ₁	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	.61	566.	1.63	0.955			0.578	XXXXXX	677	348
2	.62	570.	1.64	0.956				XXXXXX		
3	.61	568.	1.63	0.956						
4	.61	560.	1.61	0.953						
5										

NO.	P ₁	P ₂	R ₁	P ₁ ² - P ₂ ²	(1) $\frac{P_1^2}{P_2^2 - P_1^2} =$	(2) $\left[\frac{P_1^2}{P_2^2 - P_1^2} \right]^n =$
1	1849.5	3420.	3077	344	2.4725	1.7735
2		1754	2898	523		
3		1702	2475	945		
4		1573	2037	1383		
5		1427				

Absolute Open Flow <u>1067.</u> Mcd @ 15.025			Angle of Slope @ <u>57.7</u>		Slope, n <u>0.633</u>	
Remarks:						
Approved By Commission: _____ Conducted By: _____ Calculated By: _____ Checked By: _____						