

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 6-20-77	
Company Aztec Oil & Gas Company				Connection Southern Union Gathering		
Pool Blanco				Formation Mesa Verde		Unit
Completion Date 6-12-77		Total Depth 5515'		Plug Back TD 5499'		Elevation: 6321' GR
Farm or Lease Name Hillstrom		Well No. #1-A				
Case Size 7.000	Wt. 20#	d 6.456	Set At 3101	Perforations: From 4973 To 5411		
Tag. Size 4.500	Wt. 10.50#	d 4.052	Set At 2927-5513	Perforations: From To		Unit Sec. Twp. Rge. E 35-T32N-R12W
2.375	4.7	1.995	5407			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At		County San Juan
Producing Thru Tbg		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a 12.2
L		H		G _g .700	% CO ₂	% N ₂
				% H ₂ S	Prover	Meter Run
						Taps

FLOW DATA						TUBING DATA		CASING 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.	
SI							947		885	
1.	2"	X	3/4"				485		826	1 hr
2.							377		804	2 hrs
3.							365		790	3 hrs
4.										
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	12.365		377.2	1.0000	.9258	1.0000	4,318
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

$P_c = 959.2$ $P_c^2 = 920,065$				
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²
1		802.2	643,525	276,540
2				
3				
4				
5				

$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 3.3271$

$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.4635$

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 10,637$

Absolute Open Flow	10,637	Mcf/d @ 15.025	Angle of Slope θ	Slope, n .75
Remarks:				

Approved By Commission:	Conducted By: N. R. Harland	Calculated By: James Smith	Checked By:
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