

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 5-7-77	
Company Aztec Oil & Gas Company				Connection Southern Union Gathering		
Pool Blanco				Formation Mesa Verde		Unit
Completion Date 4-16-77		Total Depth 5341		Plug Back TD 5321		Elevation 6125 KB
Gas Well 4.500	Wt. 20.00# 10.50#	d 6.456 4.052	Set At 2989' 2886-5340	Perforations: From To		Well No. #6-A
Tbg. Size 2.375	Wt. 4.70	d 1.995	Set At 5224	Perforations: From 4970' To 5224'		Unit Sec. Twp. Rge. D 20 31N 11W
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single					Packer Set At	
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 shut-in	
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.		Temp. °F
SI							998		960		168 hrs
1.	2" X 3/4"						401		839		1 hr
2.							377		808		2 hrs
3.							375		780		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		387.2	1.0000	.9259	1.0000	4432
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _t	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 1010.2 P _c ² 1,020,504				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		792.2	627,581	392,923
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.5972$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 9,067$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.0459$

Absolute Open Flow <u>9,067</u> Mcfd @ 15.025		Angle of Slope θ _____	Slope, n <u>.75</u>
Remarks: _____			

Approved By Commission:	Conducted By: James Smith	Calculated By:	Checked By:
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