

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 2-23-81	
Company AESA PET. CO.				Connection EPNG		
Pool BASIN DAKOTA				Formation DAKOTA		Unit F
Completion Date 2-13-81		Total Depth 6525.		Plug Back TD 6482.		Elevation 5605.
Farm or Lease Name STATE COM AG						
Csg. Size 5.500	Wt. 15.5	d 4.978	Set At 6525.	Perforations: From 6307. To 6469.		Well No. 295E
Tng. Size 2.063	Wt. 3.2	d 1.751	Set At 6240.	Perforations: From 0. To 0.		Unit Sec. Twp. Rge. 36-29N-10W
Type Well - Single - Fractured - G.G. or G.O. Multiple FLOWING				Packer Set At 6048.		County SANJUAN
Producing Thru TUBING		Reservoir Temp. °F 160.0 6405.		Mean Annual Temp. °F 60.0		Baro. Press. - P _a 12.2
State NM						
L 6307.	H 6405.	Gg 0.673	% CO ₂ 0.	% N ₂ 0.	% H ₂ S 0.	Prover 0.
Meter Run 0.		Taps 0.				

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.		Temp. °F
SI							1141.	60.			168.0
1.	1.75 X 0.750			44.	0.	60.	44.	60.	0.	0.	3.0
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor FL	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mcfd
1	11.22	0.	56.2	1.0000	1.2190	1.0060	774.
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1	0.08	520.	1.36	0.988	A.P.I. Gravity of Liquid Hydrocarbons	0.673
2.					Specific Gravity Separator Gas	0.673
3.					Specific Gravity Flowing Fluid	0.673
4.					Critical Pressure	669. P.S.I.A.
5.					Critical Temperature	381. °R

NO.	P _i ²	P _w	P _w ²	P _e ² - P _w ²	(1) $\frac{P_e^2}{P_e^2 - P_w^2} =$	(2) $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n =$
1	3.	177.	31.	1299.	1.0240	1.0179
2.						
3.						
4.						
5.						

AOF = Q $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n =$ 737.		
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Absolute Open Flow	737.	Mcf @ 15.025	Angle of Slope θ	53.1	Slope, n	0.750
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Remarks:			
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Approved By Commission:	Conducted By: James Archer	Calculated By: Garrett-AOF Program	Checked By: John Benton
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