

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

Form C-122
 Revised 9-1-65

RECEIVED

SEP 11 1970

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 9-8-70		SEP 11 1970	
Company David Fasken				Connection None		O.C.C. ARTESIA, OFFICE			
Pool Undesignated				Formation Mid-Morrow		Unit			
Completion Date 9-9-70		Total Depth 10582		Plug Back TD 10516		Elevation 3219 KB		Farm or Lease Name Avalon Federal Comm.	
Csg. Size 4 1/2	Wl. 11.6	d 4.000	Set At 10580	Perforations: From 10314 To 10349		Well No. 1			
Tbg. Size 2 3/8	Wl. 4.7	d 1.995	Set At 10193	Perforations: From To		Unit Sec. Twp. Rye. P 1- 21- 25			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 10193		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 13.2		Mean Annual Temp. °F 13.2		Baro. Press. - P _a 13.2		State New Mexico	
L 10332	H 10332	Gg 0.600	% CO ₂	% N ₂	% H ₂ S	Prover 2		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.	Temp. °F	
SI	172 hrs						2575				
1.	2 x 1/16			2498		92	2498				1 Hr.
2.	2 x 1/8			2184		79	2184				1 Hr.
3.	2 x 3/16			1720		68	1720				1 Hr.
4.	2 x 1/4			1313		60	1313				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 _{pv}	Rate of Flow Q, Mcfd
1	0.06405 ✓		2511.2 ✓	0.9706 ✓	1.291 ✓	1.118 1/26	225.3 221
2	0.2648 ✓		2197.2 ✓	0.9822 ✓	1.291 ✓	1.126 1/34	830.8 234
3	0.6082 ✓		1733.2 ✓	0.9924 ✓	1.291 ✓	1.130 1/42	1526.4 1512
4	1.087 ✓		1326.2 ✓	1.000 ✓	1.291 ✓	1.117	2078.8 ✓
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Dry Gas	Mcf/bbl.
1.	3.742 ✓	552 ✓	1.54 ✓	0.789 ✓	A.P.I. Gravity of Liquid Hydrocarbons	Dry	Deg.
2.	3.275 ✓	539 ✓	1.51 ✓	0.777 ✓	Specific Gravity Separator Gas	.600	XXXXXXX
3.	2.583 ✓	528 ✓	1.47 ✓	0.767 ✓	Specific Gravity Flowing Fluid	XXXXX	Dry Gas
4.	1.976 ✓	520 ✓	1.45 ✓	0.801 ✓	Critical Pressure	671 P.S.I.A.	P.S.I.A.
5.					Critical Temperature	358 ✓ R	R

NO.	P _r ²	P _s X W	P _s ² X W	P _r ² - P _s ²
1	3276.2	10732	686	
2	2872.2	8248	8170	
3	2298.2	5281	6137	
4	1818.2	3305	8113	
5				

(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 1.4074$

AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 2777$

(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.336$

Absolute Open Flow	2725	Mcf/d @ 15.025	Angle of Slope @	48.5	Slope, n	.885
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Remarks: **BHP measured with Amerada RPG-3 gauge**

Approved By Commission 9-11-70 JLS	Conducted By Tefteller, Inc	Calculated By Neil Tefteller	Checked By
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Errors not plottable