

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 3-23-71	
Company David Fasken				Connection Not Connected		
Pool Boyd (Morrow)				Formation Morrow		Unit AMESIA, OFFSH.
Completion Date		Total Depth 9292		Plug Back TD 9238		Elevation 3501.2
Crg. Size 4 1/2		Wt. 10.5	d 4.052	Set At 9292	Perforations: From 9024 To 9151	
Tbg. Size 2 3/8		Wt. 4.60	d 1.995	Set At 8928	Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas				Packer Set At		Form of Lease Name Arco-Federal #101
Producing Thru Tubing		Reservoir Temp. °F 165 @ 8888		Mean Annual Temp. °F 70		Baro. Press. - P _a 13.2
L 9088		H 9088	G _g	% 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. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI				2387							
1.	2" x 5/16"			2316		84	2316	70			1 hour
2.	2" x 5/16"			2270		86	2270	70			1 hour
3.	2" x 5/16"			2172		76	2172	70			1 hour
4.	2" x 5/16"			1887		68	1887	70			1 hour
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	1.672		241.2	0.9777 ✓	1.305	1.016	522.8 ✓
2	1.672		347.2	0.9759	1.305	1.023	756.3
3	1.672		511.2	0.9850 ✓	1.305	1.037	1139.3
4	1.672 ✓		773.2	0.9924 ✓	1.305	1.059	1773.1 ✓
5							

NO.	P _r	Temp. °R	T _r	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	0.357	544	1.54	0.966	Dry Gas	none	0.587	XXXXXX	675.7	353.7
2	0.514	546	1.54	0.952				XXXXXX		
3	0.757	536	1.52	0.945						
4	1.144	528	1.49	0.887						
5										

P _f 2981.2 P _{f2} 8888				
NO.	P ₁ ²	P _S	P _{S2}	P _{f2} -P _{S2}
1		2887.2	8336 ✓	552 ✓
2		2830.2	8010	878
3		2745.2	7536	1352
4		2604.2	6782	2106 ✓
5				

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

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

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

Absolute Open Flow	7,000	Mcfd @ 15.025	Angle of Slope	46° 6'	Slope, n	0.962
Remarks: <u>gwp measured w/Amerada RPG-3 gauge</u>						

Approved By Commission: BLS 4-1-71	Conducted By:	Calculated By: Tefteller, Inc.	Checked By:
---------------------------------------	---------------	-----------------------------------	-------------

RECEIVED
 MAR 31 1971
 U. S. GEOLOGICAL SURVEY