

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 5/26/83	
Company Helen Loraine Hedrick		Connection	
Pool Aztec-Pictured Cliffs		Formation Pictured Cliffs	
Completion Date 5/17/83		Total Depth 1830	Plug Back TD 1810
Elevation 5482' GR		Farm or Lease Name Gale	
Csg. Size 2.875	Wt. 6.50	d 2.441	Set At 1820
Perforations: From 1723 To 1785		Well No. 2	
Tbg. Size 1.660	Wt. 2.40	d 1.380	Set At 1723
Perforations: From open ended To		Unit Sec. Twp. Rge. F-24-29N-11W	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single		Packer Set At None	
Producing Thru Tubing		County San Juan	
Reservoir Temp. °F 8		State New Mexico	
Mean Annual Temp. °F		Baro. Press. - P _a	
L	H	Gg .650	% 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. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI							309		309		10 days
1.			.750	6			6		132		3 Hours
2.											
3.											
4.											
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, F _{pv}	Rate of Flow Q, Mcfd
1.	12.365		18	.9952	.9608	1.000	213
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	XXXXXX
3.					Specific Gravity Flowing Fluid	XX DIST. 3
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

P_c 321		P_c^2 103041		
NO	P_r	P_w	P_w^2	$P_c^2 - P_w^2$
1		144	20736	82305
2				
3				
4				
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{1.2519}{}$$
$$AOF = C \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{258}{}$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{1.2104}{}$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 258$$

Absolute Open Flow 258 Mcfd @ 15.025 Angle of Slope 0 Slope, n .85

Remarks:

Approved By Division Conducted By: Calculated By: Checked By: