

RECEIVED
MAR 27 1984
OIL CON. DIV.
DIST. 3

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☒ Special		Test Date 3-20-84	
Company Amoco Production Company		Connection El Paso Natural Gas Co.	
Pool Ute Dome		Formation Dakota	
Completion Date 3-09-84	Total Depth 2415	Plug Back TD 2397	Elevation 5992 GL
Coq. Size 5.500	Wt. 14	d 5.012	Set At 2436
Perforations From 2196 To 2380		Well No. 4	
Thq. Size 2.375	Wt. 4.7	d 1.995	Set At 2305
Perforations From Open To Ended		Unit Sec. Twp. Rge. L 1 31 14	
Type Well - Single - Reddenhead - G.C. or G.O. Multiple Single		Packer Set At None	
Producing Thru Tubing		County San Juan	
Reservoir Temp. °F #		State New Mexico	
L	H	Gg	% 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	8 days						315		319		
1.	2.375		.750				97		305		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 F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		109	1.000	.9258	1.012	1263
2.							
3.							
4.							
5.							

NO.	R ₁	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										
2.										
3.										
4.										
5.										

R_c 331		R_c^2 109561								
NO	P_1^2	P_w	P_2^2	$P_2^2 - P_w^2$	(1) $\frac{P_c^2}{R_2^2 - R_w^2} = \frac{12.0769}{}$	(2) $\left[\frac{R_c^2}{R_2^2 - R_w^2} \right]^n = \frac{6.4784}{}$				
1		317	100489	9072						
2										
3										
4										
5										

$\Delta OF = Q \left[\frac{R_c^2}{R_2^2 - R_w^2} \right]^n = \frac{8182}{}$

$$AOF = Q \left[\frac{R^2}{P_2^2 - P_w^2} \right]^n = 8182$$

Absolute Open Flow 8182 Mcfd @ 15.025 Angle of Slope 4 Slope, n .75

Remarks: Frac-recomplete Lite mist H₂O

Approved By Division

Conducted By

J. Barnett

Calculated By

J. Barnett

Checked By

A