

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED
JAN 13 1984
OIL CON. DIV.
DIST. 3

Type Test ☒ Initial ☐ Annual ☒ Special		Test Date 1-6-84	
Company Amoco Production Company		Connection Gas Company of New Mexico	
Pool Basin		Formation Basin	
Completion Date 12-10-83		Total Depth 6573	Plug Back TD 6528
Elevation 5778		Farm or Lease Name Day Gas Com	
Csq. Size 4.500	Wt. 10.5	d 4.052	Set At 6573
Perforations: From 6288 To 6479		Well No. 1E	
Thq. Size 2.375	Wt. 4.7	d 1.995	Set At 6481
Perforations: From open To ended		Unit Sec. Twp. Rge. M 7 28 10	
Type Well - Single - Brodenhead - G.C. or G.O. Multiple Single		Packer Set At None	
Producing Thru Tubing		Reservoir Temp. °F 0	
Mean Annual Temp. °F		Baro. Press. - P _a	
State New Mexico			
L	H	G _q	% 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. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
SI	11 Days						807		807	
1.	2.375		.750				52		287	
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		64	1.000	.9258	1.008	739
2.							
3.							
4.							
5.							

NO.	P _t	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 _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ °F

NO.	P _t ²	P _w ²	P _c ²	P _c ² - P _w ²
1		299	89401	581360
2				
3				
4				
5				

$P_c = 819$ $P_c^2 = 670761$

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1538$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1132$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 823$

Absolute Open Flow	823	Mcf/d @ 15.025	Angle of Slope θ	Slope, n	.75
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Remarks: Drilled & Completed by True.
Med. oil Light water flared

Approved By Division	Conducted By: J. J. Barnett	Calculated By: J. J. Barnett	Checked By:
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