

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS

RECEIVED
JUL 25 1985
OIL CON. DIV.
DIST. 3

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 6-25-85	
Company Amoco Production Company		Connection El Paso Natural Gas Co.	
Pool Basin		Formation Dakota	
Completion Date 6-18-85	Total Depth 6467	Plug Back TD 6421	Elevation 5989 GR
Farm or Lease Name Gallegos Canyon Unit		Well No. 238 E	
Csg. Size 4.500	Wt. 10.5	d 4.052	Set At 6371
Perforations: From 6238 To 6332		Well No. 238 E	
Thq. Size 2.375	Wt. 4.7	d 1.995	Set At 6340
Perforations: From open To ended		Unit Sec. Twp. Rge. J 23 28 13	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple single		Packer Set At none	
Producing Thru Tubing		Baro. Press. - P _a	
State New Mexico		County San Juan	
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.	Temp. °F	
SI	7 days						1435		1620		
1.	2.375	.750					296		750		3 hrs
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, Fpv	Rate of Flow Q, Mcfd
1	12.365		308	1.000	.9258	1.037	3656
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 _____ 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 _____ R

NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1		762	580644	2082780
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2788$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.2025$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4396$

P_c 1632 P_c² 2663424

Absolute Open Flow	4396	Mcfd @ 15.025	Angle of Slope @	Slope, n .75
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Remarks: Flared Lite H2O+ oil

Approved By Division	Conducted By: OD	Calculated By: Ralph U Montoya	Checked By: RUM
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