

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED
MAR 14 1985
OIL CON. DIV.
DIST. 3

Type Test ☒ Initial ☐ Annual ☒ Special				Test Date 1-31-85	
Company Amoco Production Co.			Connection El Paso Natural Gas Company		
Pool Basin			Formation Dakota		
Completion Date 1-8-85		Total Depth 6609		Plug Back TD 6604	
Elevation 5772 GL		Farm or Lease Name Duff Gas Company			
Csq. Size 4.500	Wt. 10.5	d 4.052	Set At 6609	Perforations: From 6396 To 6520	
Thq. Size 2.375	Wt. 4.7	d 1.995	Set At 6575	Perforations: From open To ended	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple single				Packer Set At none	
Producing Thru tubing		Reservoir Temp. °F #		Mean Annual Temp. °F	
Baro. Press. - P _a		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. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
SI	22 days						1870		2010	
1.	2.375	.750					104		397	
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		116	1.000	.9258	1.012	1344
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _t	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 _c	P _c ²	P _w	P _w ²	P _c ² - P _w ²
1	2022	4088484	409	167281	3921203
2					
3					
4					
5					

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0427$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0318$

AOI = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1387$

Absolute Open Flow 1387 Mcfd @ 15.025

Angle of Slope θ _____ Slope, n .75

Remarks: Flared, med. H2O, Lite Oil

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