

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-85

RECEIVED

Type Test ☒ Initial ☐ Annual ☒ Special		Test Date 10-18-83		NOV -1 1983	
Company Amoco Production Company			Connection El Paso Natural Gas Company		
Pool Basin			Formation Dakota		Unit DIST. 3
Completion Date 9-28-83		Total Depth 6717		Plug Back TD 6645	Elevation 6225 GL
Farm or Lease Name J. C. Gordon "D"			Well No. 5E		
Csg. Size 4.500	Wt. 10.5	d 4.052	Set At 6717	Perforations: From 6464 To 6596	Unit Sec. Twp. Rye. K 24 27 10
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 6585	Perforations: From open To ended	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single				Packer Set At None	
Producing Thru Tubing		Reservoir Temp. °F θ		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	16 Days						1342		1342	
1.	2.375		.750				118		412	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		130	1.000	.9258	1.016	1512
2.							
3.							
4.							
5.							

NO.	P _f	Temp. °R	T _f	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

P _c 1354 P _c ² 1833316				
NO.	P _f	P _w	P _w ²	P _c ² - P _w ²
1		424	179776	1653540
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1087$

AOR = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1634$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0805$

Absolute Open Flow 1634	Mcf/d @ 15.025	Angle of Slope θ _____	Slope, n .75
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Remarks: Drilled by True and Completed. Heavy oil flow, light water.

Approved By Commission:	Conducted By: J. J. Barnett	Calculated By: J. J. Barnett	Checked By: S
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