

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

Form C-122
Revised 9-1-65

RECEIVED
SEP 27 1985
OIL CON. DIV. 3

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 9-25-85	
Company El Paso Natural Gas				Connection			
Pool Basin				Formation Dakota		Unit	
Completion Date 9-25-85		Total Depth 6773		Plug Back TD 6753		Elevation 6578 GR	
Farm or Lease Name Huerfano Unit				Well No. #137E			
Csg. Size 4.500	Wt. 10.5	d 4.052	Set At 6772	Perforations: From 6475 To 6603		Unit Sec. Twp. Rge. A 31 26 09	
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 6601	Perforations: From To			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None		County San Juan	
Producing Thru Tbg.		Reservoir Temp. °F a		Mean Annual Temp. °F		Baro. Press. - P _a 12	
State New Mexico							
L	H	Gg .690	% 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							1566		1670		7 Days
1.			.750	276		81	276		664		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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		288	.9804	.9325	1.027	3344
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

P _r 1682	P _w 2829124	
NO.	P _r	P _w
1	676	456976
2		
3		
4		
5		

$$(1) \frac{P_r^2}{P_r^2 - P_w^2} = \frac{2829124}{2372148}$$

$$ACF = Q \left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 3816$$

$$(2) \left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.1413$$

Absolute Open Flow 3816	Mcf/d @ 15.025	Angle of Slope θ	Slope, n .75
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Remarks: Produced med. spary liquid throughout test.
Gas vented during test = 575 MCF.

Approved by Commission:	Conducted By: Joe Gillentine	Calculated By: Ed Mabe	Checked By: kld
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