

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

Form C-122
Revised 9-1-65

RECEIVED
AUG 13 1985

OIL CON. DIV.
DIST. 3

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 8-8-85						
Company El Paso Natural Gas					Connection						
Pool Basin					Formation Dakota						
Completion Date 8-8-85			Total Depth 6713		Plug Back TD 6697		Elevation 6539 GR		Farm or Lease Name Huerfano Unit		
Csg. Size 4.500		wt. 10.5		d 4.052		Set At 6713		Perforations: From 6485 To 6620		Well No. #103E	
Tq. Size 2.375		wt. 4.7		d 1.995		Set At 6610		Perforations: From To		Unit Sec. Twp. Rge. L 29 26 09	
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		G _g .700		% 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	
51							1252		1275		7 Days
1.			.750	161		82	161		521		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 F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		173	.9795	.9258	1.015	1969
2.							
3.							
4.							
5.							

NO.	P _r	Temp. *R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1										
2.										
3.										
4.										
5.										

NO.	P _r	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1	1286	533	284089	1369707	$\frac{1653796}{1369707}$	$\frac{1653796}{1369707} = 1.1518$
2.						
3.						
4.						
5.						

Absolute Open Flow			Angle of Slope		Slope, n	
2268 Mcfd @ 15.025					.75	

Remarks: Produced med. spary liquids throughout test. Gas vented during test 360 MCF.	
Approved By Commission:	Conducted By: Joe Gillentine
Calculated By: Ed Mabe	Checked By: kld