

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 8-27-85			
Company El Paso Natural Gas				Connection					
Pool Basin				Formation Dakota				Unit	
Completion Date 8-27-85		Total Depth 6688		Plug Back TD 6671		Elevation 6331 GR		Farm or Lease Name Ballard	
Csg. Size 4.500	Wt. 10.5	d 4.052	Set At 6688	Perforations: From 6395 To 6521				Well No. #11E	
Teg. Size 2.375	Wt. 4.7	d 1.995	Set At 6516	Perforations: From To				Unit L	Sec. Twp. Rge. 15 26 9
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
SI							1361		1728		7 Days
1.			.750	137		78	137		434		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		149	.9831	.9258	1.015	1702
2.							
3.							
4.							
5.							

AUG 29 1985

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	XXXXXXX
3					Specific Gravity Flowing Fluid	XXXXXX
4					Critical Pressure	P.S.I.A.
5					Critical Temperature	R

P _c 1740	P _w ² 3027600	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{3027600}{2828684}$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0523$
NO. 1	P _r 446	P _w ² 198916	P _c ² - P _w ² 2828684
2			
3			
4			
5			

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1791$

Absolute Open Flow	1791	Mcf/d @ 15.025	Angle of Slope @	Slope, n .75
--------------------	------	----------------	------------------	--------------

Remarks: Produced surges of oil & water condensated throughout test.
Gas vented during test = 346 MCF.

Approved By Commission:	Conducted By: Don Norton	Calculated By: Ed Mabe	Checked By: kld
-------------------------	-----------------------------	---------------------------	--------------------