

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

Form C-122
Revised 9-1-65

RECEIVED
SEP 10 1985
OIL CON. DIV.
DIST. 3

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 9-6-85		RECEIVED SEP 10 1985 OIL CON. DIV. DIST. 3			
Company El Paso Natural Gas Co.						Connection					
Pool Basin						Formation Dakota		Unit			
Completion Date 9-6-85			Total Depth 8030		Plug Back TD 8017		Elevation 6745 GR		Farm or Lease Name S.J. 27-5 Unit		
Csg. Size 4.500		Wt. 11.6		Set At 8025		Perforations: From 7781 To 7891		Well No. #110E			
Teg. Size 1.900		Wt. 2.9		Set At 1.610 7990		Perforations: From To		Unit C 2 27 5		Sec. Twp. Rge.	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single						Packer Set At None		County Rio Arriba			
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							1992		2021		7 Days
1.			7.50	115		66	115		1012		3 Hrs.
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{P_w P_m}$	Pressure P _m	Flow Temp. Factor Ft	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		127	.9943	.9258	1.017	1470
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 _c 2033 P _w ² 4133089				
NO.	P _r	P _w	P _w ²	P _c ² - P _w ²
1		1024	1048576	3084513
2				
3				
4				
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{4133089}{3084513}$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.245$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1830$$

Absolute Open Flow 1830 Mcfd @ 15.025		Angle of Slope θ	Slope, n .75
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Remarks: Light mist duirng test. Gas vented during test = 235 MCF.	
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Approved by Commission:	Conducted By: Gary Osborne	Calculated By: Cliff Brock	Checked By: kld
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