

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☒ Special		Test Date 11-4-85		DEC 06 1985	
Company Amoco Production Co.		Connection El Paso Natural Gas Company		OIL CON. DIV.	
Pool Basin		Formation Dakota		Unit DST. 3	
Completion Date 10-22-85		Total Depth 7672'		Plug Back TD 7630'	
Elevation 6322' GL		Farm or Lease Name A. L. Elliott "A"		Well No. 4E	
Coq. Size 4.500	Wt. 11.6	d 4.000	Set At 7672'	Perforations: From 7280' To 7586'	
Thq. Size 2.375	Wt. 4.7	d 1.995	Set At 7589'	Perforations: From open To ended	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single				Packer Set At None	
Producing Thru Tubing				Baro. Press. -- P _g	
Reservoir Temp. °F #				Mean Annual Temp. °F	
County San Juan				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. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
SI	7 Days						975		1680	
1.	2.375		.750				120		350	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, Mc/d
1	12.365		132	1.000	.9258	1.015	1534
2.							
3.							
4.							
5.							

NO.	R _g	Temp. °R	T _g	Z	Gas Liquid Hydrocarbon Ratio _____ Mc/bbl.	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.	Specific Gravity Separator Gas _____	Specific Gravity Flowing Fluid _____	Critical Pressure _____ P.S.I.A.	Critical Temperature _____ R
1							X X X X X X X X	X X X X X		
2.										
3.										
4.										
5.										

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0480$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0358$
1		362	131044	2731820		
2						
3						
4						
5						

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1589$$

Absolute Open Flow 1589 Mc/d @ 15.025 Angle of Slope 0 Slope, n .75

Remarks: flared, lite H₂O, lite condensate

Approved By Division Conducted By: Ryans Services Calculated By: J. J. Barnett Checked By: