

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 10-9-80	
Company CONOCO, INC.				Connection EL PASO NATURAL GAS		810' FSL & 1980' FWL	
Pool EUMONT				Formation QUEEN		Unit N	
Completion Date 6-26-80		Total Depth 3825'		Plug Back TD 3783'		Elevation 3540' 4L	
Farm or Lease Name SEMI EUMONT		Well No. 109		Unit N		Sec. 14	
Csg. Size 5 1/2"		Wt. 15.5#		Set At 3825'		Perforations: From 3564' To 3694'	
Tbg. Size 2 3/8"		Wt. 4.7#		Set At 3547'		Perforations: From OPEN To ENDED	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE				Packer Set At NONE		County LEA	
Producing Thru TURBINE		Reservoir Temp. °F 97° @ 3825'		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2	
State NEW MEXICO		L 3547'		H 3547'		G _g .715	
% CO ₂ 2.85		% N ₂ 1.46		% H ₂ S .04		Prover —	
Meter Run 4"		Taps FLANGE					

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							192		187		48 HRS
1.	4" X 1,000"		70	3.24	76	190		186	(STABILIZED)		30 MIN.
2.	4" X 1,000"		72	9.61	76	188		185	"		30 MIN.
3.	4" X 1,000"		74	22.09	74	183		182	"		30 MIN.
4.	4" X 1,000"		77	44.89	71	174		177	"		30 MIN.
5.	4" X 1,000"		81	51.84	72	137		170			60 MIN.

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	4.753	16.419	83.2	.9850	1.183	NIL	91
2	4.753	28.614	85.2	.9850	1.183	NIL	158
3	4.753	43.889	87.2	.9868	1.183	NIL	24.4
4	4.753	63.632	90.2	.9896	1.183	NIL	354
5	4.753	69.881	94.2	.9887	1.183	NIL	388

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	.12	536	1.39	NIL	NONE	
2.	.12	536	1.39	NIL		
3.	.12	534	1.38	NIL		
4.	.12	531	1.38	NIL		
5.	.14	532	1.38	NIL		

NO.	P _t	P _w	P _w ²	P _c ² - P _w ²
1	41.29	199.2	39.68	0.40
2	40.48	198.2	39.28	0.80
3	38.49	195.2	38.10	1.98
4	35.04	190.2	36.18	3.90
5	22.56	183.2	33.56	6.52

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 10.277$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1172.4$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.312$

Absolute Open Flow 1,172 Mcfd @ 15.025	Angle of Slope 62.6	Slope, n .514
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Remarks: **No FLUID PRODUCED DURING TEST.**

Approved By: Jerry S.	Conducted By: TOM C. ADHODELL	Calculated By: TOM C. ADHODELL	Checked By:
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