

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 6-26-80	
Company CONOCO, INC.				Connection EL PASO NATURAL GAS		1650' FNL & 660' FEL	
Pool LANGLEY MATTIX				Formation SEVEN RIVERS QUEEN		Unit H	
Completion Date 4-18-80		Total Depth 3720'		Plug Back TD 3654'		Elevation 3262' GL	
Farm or Lease Name JACK B-17							
Csg. Size 5 1/2"		Wt. 15.5#		Set At 4.950		Perforations: From 3290' To 3414'	
Well No. 5							
Tbg. Size 2 3/8"		Wt. 4.7#		Set At 1.995		Perforations: From OPEN To ENDED	
Unit H		Sec. 17		Twp. 24S		Rge. 37E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE						Packer Set At NONE	
County LEA							
Producing Thru TUBING		Reservoir Temp. °F 92° @ 3400'		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2	
State NEW MEXICO							
L 3430'		H 3430'		G _g .702		% CO ₂ .22	
% N ₂ 1.18		% H ₂ S .08		Prover 4"		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							77		88		47 HRS.
1.	4" X 1.750"			8.9	4.0	93	76		86	(STABILIZED)	30 MIN.
2.	4" X 1.750"			10.6	16.0	93	57		81	(STABILIZED)	45 MIN.
3.	4" X 1.750"			12.7	34.22	93	27		72		60 MIN.
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	14.93	9.402	22.1	.9697	1.194	NIL	163
2	14.93	19.514	23.8	.9697	1.194	NIL	337
3	14.93	29.771	25.9	.9697	1.194	NIL	515
4.							
5.							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	.03	553	1.42	NIL	NONE	
2.	.04	553	1.42	NIL	A.P.I. Gravity of Liquid Hydrocarbons	Deq.
3.	.04	553	1.42	NIL	Specific Gravity Separator Gas	.702
4.					Specific Gravity Flowing Fluid	X X X X X X X X
5.					Critical Pressure	667 P.S.I.A.
					Critical Temperature	390 R

P _c 101.2	P _c ² 1024	
NO.	P _t ²	P _w
1	7.96	99.2
2	4.93	94.2
3	1.62	86.2
4		
5		

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.644$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1106$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.147$

Absolute Open Flow	1,106 Mcfd @ 15.025	Angle of Slope	59.4°	Slope, n	.591
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Remarks: COULD NOT OBTAIN 4TH POINT DUE TO RESTRICTION WITH CHOKE WIRE OPEN. WELL PRODUCED NO FLUID DURING TEST.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
<i>John W. Ruyter</i>	<i>Tom C. Giddings</i>	<i>Tom C. Giddings</i>	