

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 8-23-77	
Company DON H. WILSON				Connection TO AIR	
Pool EUMONT				Formation 7 RIVERS	
Completion Date 8-23-77		Total Depth 4000		Plug Back TD 3067	
Elevation		Form or Lease Name STATE "AT"			
Csg. Size 5-1/2	Wt. 14.5	d	Set At 3996	Perforations: From 3010 To 3040	
Thg. Size 2-3/8	Wt. 4.7	d	Set At 2990	Perforations: From OPEN To END	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE				Packer Set At 2990	
Producing Thru TUBING		Reservoir Temp. °F 100° 3823		Mean Annual Temp. °F 60	
Baro. Press. - P _a 13.2		State NEW MEXICO			
L 3823	H 3823	Gg 0.778	% CO ₂ 1.81	% N ₂ 24.64	% H ₂ S --
Prover 2"		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							1510.0		PACKER		118.0 HRS
1.	2"	X	3/16"	102.0		109	1447.0	87			60 MIN
2.	2"	X	7/32"	123.0		112	1402.0	85			60 MIN
3.	2"	X	1/4"	90.0		110	1373.0	85			60 MIN
4.	2"	X	5/16"	153.0		98	1218.0	83			60 MIN
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft	Gravity Factor Fg	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	0.6082		115.2	0.9560	1.134	1.007	76.5
2	0.8393		136.2	0.9535	1.134	1.008	124.6
3	1.087		103.2	0.9636	1.134	1.006	123.3
4	1.672		166.2	0.9653	1.134	1.011	307.5
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	0.18	569	1.64	0.987	NONE	NONE	0.778	X X X X X X X X	632	347
2	0.22	572	1.65	0.984						
3	0.16	570	1.64	0.989						
4	0.26	558	1.61	0.979						
5										

P _c 1523.2 P _c ² 2320.1				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1	2132.2	CALC	2132.3	187.8
2	2002.8		2003.0	317.1
3	1921.6		1921.8	398.3
4	1515.9		1517.3	802.8
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 2.890$$

$$AQF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 844$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.744$$

Absolute Open Flow	844	Mcfd @ 15.025	Angle of Slope °	46.4	Slope, n	0.951
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Remarks: CALCULATED FRICTION - GOOD POINT ALIGNMENT

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	M. HANSEN	R. WEST	D. WILSON

RECEIVED

SEP - 1977

OIL CONSERVATION COMM.
HOBBS, N. M.