

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

Form C-122
Revised 9-1-65

RECEIVED

4/5P
File

Type Test: ☒ Initial 4 POINT ☐ Annual ☐ Special						Test Date: JAN 24 1983	
Company: WALLACE OIL & GAS				Connection: AIR NEW WELL		O. C. D. ARTESIA, OFFICE	
Pool: PECOS SLOPE U.D. 4/5P 1/10				Formation: ABO		Unit:	
Completion Date: 9-13-82		Total Depth: 4563		Plug Bars: 4014		Elevation: 3600	
Casing Size: 4.50		Wt.: 10.5		Set At: 4014		Perforations: From 3878 To 3891	
Tub. Size: 2.375		Wt.: 4.7		Set At: 3890		Perforations: From OPEN To ENDED	
Type Well - Single - Freedomhead - G.O. or G.O. Multiple: SINGLE						Packer Set At: NONE	
Producing thru: TUBING		Reservoir Temp. °F: 106 @ 3884		Mean Annual Temp. °F: 60°		Base. Press. - P ₀ : 13.2	
L: 3884		H: 3884		C _g : 0.687		% CO ₂ : 2.50	
				% N ₂ : 10.34		% H ₂ S:	
				Prover: 2.0		Motor Run: Taps	
						FLANGE	

FLOW DATA						TUBING DATA		B.H.P. 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.	
SI							819		1002	91 HRS.
1.	2.00	X	0.130	790	0	88	793	87	968	64/64 1 HR
2.	2.00	X	0.250	615	0	82	710	90	853	14/64 1 HR
3.	2.00	X	0.440	240	0	71	586	62	684	16/64 1 HR
4.	2.00	X	0.440	250	0	78	426	70	521	18/64 1 HR
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{P_0}$	Pressure P ₀	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mhd
1	0.29	.0	803	0.9741	1.2067	1.0561	291
2	1.08	.0	628	0.9795	1.2067	1.0416	842
3	3.44	.0	253	0.9896	1.2067	1.0200	1060
4	3.44	.0	263	0.9831	1.2067	1.0199	1094
5							

NO.	P ₀	Temp. °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	1.21	548	1.55	0.897		0.687	XXXXXX	661	353
2	0.95	542	1.53	0.914			XXXXXX		
3	0.38	531	1.50	0.961					
4	0.40	538	1.52	0.961					
5									

NO.	P ₁ ²	P ₀ ²	R ₀ ²	R ₀ ² - R ₁ ²
1		884	781	54
2		781	610	225
3		630	397	438
4		484	234	601
5				

(1) $\frac{P_0^2}{R_0^2 - R_1^2} = 1.3897$

AOF = Q $\left[\frac{R_0^2}{R_0^2 - R_1^2} \right]^n = 1311.$

(2) $\left[\frac{R_0^2}{R_0^2 - R_1^2} \right]^n = 1.1982$

Post FD-2
1-28-83
Comp. BK

Absolute Open Flow: 1311.	Mhd @ 15.023	Angle of Slope @ 61.2	Slope, n 0.549
---------------------------	--------------	-----------------------	----------------

Remarks: BOTTOM HOLE PRESSURE MEASURED WITH AMERADA PRESSURE ELEMENTS.

Approved By Commission:	Conducted By: DON BENNETT	Calculated By: BENNETT - CATHEY	Checked By:
-------------------------	---------------------------	---------------------------------	-------------