

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

Form C-122
Revised 9-1-65

AUG 05 1965

Type Test: ☒ Initial ☐ Annual ☐ Special						Test Date: 7-11-85 C. D.	
Company: J.C. WILLIAMSON				Connection: AIR NEW WELL			
Pool: E. Burton Flat Mar.				Formation: MORROW		Unit:	
Completion Date: 7-9-85		Total Depth: 11638 11645		Plug Hole: 11638 11616		Elevation: 3306	
Well Size: 5.500		Wt.: 17.0		Perforations: From 11510 To 11603		Form or Lease Name: CANTER FEDERAL	
Fig. Size: 2.375		Wt.: 4.7		Perforations: From 0 To 0		Well No.: 1	
Type Well - Single - Freedomhead - G.O. or G.O. Multiple: SINGLE				Packer Set At: 11352		County: EDDY	
Producing thru: TUBING		Reservoir Temp. °F: 232 11556		Mean Annual Temp. °F: 60.0		State: NEW MEXICO	
L: 11556		H: 11556		Q _g : 0.637		Prover: 0	
		% CO ₂ : 2.88		% N ₂ : 1.19		% H ₂ S: 0	
				Meter Run: 2.1		Type: 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. in. H ₂ O	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
1	2.07 X 1.000			108	3.5	60	3459	232	4516	
2	2.07 X 1.000			108	8.0	60	3300	232	4377	
3	2.07 X 1.000			110	16.0	60	3180	232	4216	
4	2.07 X 1.000			110	30.0	60	2985	232	3982	
5							2760	232	3691	

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{P/P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor F _{sp}	Rate of Flow O. Mcfd
1	4.95	20.60	121.2	1.0000	1.2529	1.0109	129
2	4.95	31.14	121.2	1.0000	1.2529	1.0109	195
3	4.95	44.40	123.2	1.0000	1.2529	1.0111	278
4	4.95	60.79	123.2	1.0000	1.2529	1.0111	381

NO.	P ₁	Temp. °R	P ₂	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	520	1.44	0.979	0	0	0.637	XXXXXX	681	362
2	0.18	520	1.44	0.979						
3	0.18	520	1.44	0.978						
4	0.18	520	1.44	0.978						

P ₁ 3508.3 P ₂ 12308				(1) $\frac{P_1^2}{P_2^2 - P_1^2} = 2.8708$		(2) $\left[\frac{P_1^2}{P_2^2 - P_1^2} \right]^n = 1.9747$	
NO.	P ₁ ²	P ₂ ²	R _w ²	P ₁ ² - R _w ²	AOF = Q $\left[\frac{P_1^2}{P_2^2 - P_1^2} \right]^n = 752$		
1		3392	11507	801			
2		3259	10621	1688			
3		3067	9408	2900			
4		2832	8021	4287			

Absolute Open Flow: 752 Mcfd @ 15.025		Angle of Slope: 57.2		Slope, n: 0.645	
Remarks: BHP MEASURED WITH AMERADA PRESSURE ELEMENT					

Approved By Commission:	Conducted By: BENNETT & CATHEY	Calculated By: DON BENNETT	Checked By:
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Post ID-2
8-30-85
Comp x BK