

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED

Type Test: ☒ Initial FOUR POINT ☐ Annual ☐ Special				Test Date: 9-4-81		660 FNL	
Company: GREAT WESTERN DRILLING, Inc.				Connection: AIR NEW WELL		1980 FEL	
Well: WILDCAR - Well 121-0				Formation: ABO		Unit: B ARTESIA, OFFICE	
Completion Date: SEPTEMBER 2, 1981		Total Depth: 5346		Plug Back TD: 5346 5303		Elevation: 3833 FB	
Casing Size: 4.50		ID: 10.5		Set At: 4.052		5246	
Perforations: From 3711 To 3895		Perforations: From OPEN To ENDED		Well No.: 2		Unit: B Sec. 23 Twp. 65 Rge. 25E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: SINGLE				Packer Set At: NONE		County: CHAVES	
Producing Thru: TUBING		Reservoir Temp. °F: 102 • 3,890 FT		Mean Annual Temp. °F: 60		Bure. Press. - P _b : 13.2	
L: 3803		H: 3803		C _g : .812		% CO ₂ : 0.14	
				% N ₂ : 56.33		% H ₂ S: 0	
				Prover: 2" CRITICAL FLOW PROVER		FLG.	
FLOW DATA				TUBING DATA		CASING DATA	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.
1	2"	X	.187	932		80	935
2	2"	X	.218	878		78	881
3	2"	X	.312	680		73	683
4	2"	X	.375	528		71	531
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 _{sp}	Rate of Flow Q, Mcfd
1	.6237	.00	945.2	.9813	1.097	1.0238	657
2	.8608	.00	891.2	.9831	1.1097	1.0228	856
3	.7140	.00	693.2	.9877	1.1097	1.0190	1327
4	.24390	.00	541.2	.9896	1.1097	1.0153	1472
Gas Liquid Hydrocarbon Ratio: _____ Mcf/bbl.				A.P.I. Gravity of Liquid Hydrocarbons: _____ Deg.			
Specific Gravity Separator Gas: .8120				XXXXXXX			
Specific Gravity Flowing Fluid: _____				XXXXXXX			
Critical Pressure: 571 P.S.I.A.				P.S.I.A.			
Critical Temperature: 268 R				R			
P _c 1131.2 P _c ² 1279.6							
NO.	P _c	P _w	P _c ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.7626$		
1		1078.2	1162.5	117	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.3276$		
2		1017.2	1034.7	245			
3		872.2	760.7	519			
4		744.2	553.8	726			
Absolute Open Flow: 1,954.2 Mcfd @ 15.025				Angle of Slope: 63.4		Slope, n: .500	
Remarks: KNOWN BOTTOM HOLE PRESSURES MEASURED WITH AMERADA PRESSURE ELEMENT.							
Approved By Division:		Conducted By: DON BENNETT		Calculated By: WOHLFORD & JENKINS		Checked By:	

WITNESSED BY KENNETH SMITH