

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

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 SEP 17 1976
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Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 9-13-76		SEP 17 1976	
Company Hondo Drilling Company				Connection None				Unit O.C.C.	
Pool Wildcat				Formation Morrow				Form or Lease Name Wright Federal	
Completion Date 8/27/76		Total Depth 11390		Plug Back TD 11303		Elevation 3400' K.B.		Well No. 1	
Coq. Size 5 1/2	Wt. 17 & 20	Set At 11390	Perforations: From 11076 To 11086		Unit Sec. Twp. Rge. N 29 18 29				
Trq. Size 2 3/8	Wt. 4.7	Set At 11039	Perforations: From To		County Eddy				
Type Well - Single - Broadhead - G.G. or G.O. Multiple Single				Packer Set At 11039		State New Mexico			
Producing Thru Tbg.		Reservoir Temp. *F 182 @ 11076 (Est)		Mean Annual Temp. *F		Baro. Press. - P _a		State New Mexico	
L	H	Gg .638	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run 4	Taps Flg.	

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	Duration of Flow
51							3288				24 hr.
1.	4	X	1.750	610	5.5	84	3037				1 hr.
2.	4	X	1.750	620	16.0	72	2764				1 hr.
3.	4	X	1.750	600	35.0	73	2462				1 hr.
4.	4	X	1.750	600	60.0	71	2169				1 hr.
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, Fpv	Rate of Flow Q, Mcfd
1	14.93	58.55	623.2	.9777	1.252	1.055	1129
2	14.93	100.65	633.2	.9887	1.252	1.061	1974
3	14.93	146.50	613.2	.9877	1.252	1.059	2864
4	14.93	191.81	613.2	.9896	1.252	1.059	3757
5							

NO.	P _r	Temp. *R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Met/cbl.
1	.93	544	1.46	.899	46.023	
2	.95	532	1.43	.889	56.1 @ 60°	
3	.92	533	1.43	.892		
4	.92	531	1.43	.892		
5						

NO.	P _r ²	P _w	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} =$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n =$
1	3058.6	9355.0	1536.3		1.917	1.917
2	2802.7	7855.1	3036.2			
3	2529.2	6396.9	4494.4			
4	2282.6	5210.3	5581.0			
5						

Absolute Open Flow		7.203	Mcfd @ 15.025	Angle of Slope θ	45.0	Slope, n	1.000
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Remarks: Slope flat plotted 45 thru high rate of flow.
 Well made 8.80 Bols. of 56.1 @ 60 condensate during test.

Approved By Commission:	Conducted By: Rick Pagan	Calculated By: Joe B. Murray	Checked By:
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