

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

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c/sf
File

Type Test ☐ Initial ☐ Annual ☒ Special		Test Date 6-1-83		JUN 15 1983	
Company Hondo Oil and Gas Company ✓			Connection Llano, Inc.		
Pool North Turkey Track			Formation Morrow		
Completion Date 10-25-82		Total Depth 11013		Plug Back TD 10916	
				Elevation GL 3503.5	
Casing Size 5 1/2"		WT. 17		ID 4.892	
Set At 11006		Perforations: From 10798 To 10830		Well No. 1	
Tubg. Size 2 3/8"		WT. 4.7		ID 1.995	
Set At 10744		Perforations: From 10747 To 10830		Unit Sec. Twp. Rge. N 23 18S 28E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single Gas				Packer Set At 10747	
Producing Thru Tbg.				State New Mexico	
Reservoir Temp. °F 60		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
L 10747		H 10747		Cg %	
		% CO ₂ .659		% N ₂ .426	
		% H ₂ O 0		Prover 3"	
				Meter Run 3"	
				Temp. 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	
SI							1957		Pkr.		168 Hrs.
1.	3.068 x 2.000			530	6	64	1829	62	"		1 Hr.
2.	3.068 x 2.000			537	13	60	1719	64	"		
3.	3.068 x 2.000			548	22.5	63	1596	67	"		
4.	3.068 x 2.000			563	42.0	62	1349	69	"		
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, Mhd
1	21.32	57.09	543.2	.9962	1.2539	1.052	1599
2	21.32	84.57	550.2	1.0000	1.2539	1.054	2383
3	21.32	112.37	561.2	.9971	1.2539	1.054	3157
4	21.32	155.56	576.2	.9981	1.2539	1.055	4379
5							

NO.	P _r	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	.81	524	1.42	.904	60	59.8 @ 60°	.636	X X X X X X X X	670	368
2	.82	520	1.41	.901				X X X X X		
3	.84	523	1.42	.900						
4	.86	522	1.42	.898						
5										

NO.	P _r	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	2700.2	7291.1	2596.2	6740.3	2.81	2.307
2			2462.2	6062.4		
3			2341.2	5481.2		
4			2167.2	4696.8		
5						

Absolute Open Flow		Mhd @ 15.025		Angle of Slope @ 51° 2'		Slope, n .809	
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Remarks: Bottom hole pressure @ 10814' via bomb.
Well produced 8 bbls. cond. and 0 bbls. water during test.

Approved By Division	Conducted By: L. R. Sutton	Calculated By: L. R. Sutton	Checked By: Larry Henson
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