

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

Form CH-112
Revised 9-1-65

RECEIVED BY
DEC 12 1984
O. C. D.

Type Test 4 POINT ☒ Initial ☐ Annual ☐ Special				Test Date 12-5-84	
Company SOUTHLAND ROYALTESIA, OFFICE				Connection AIR NEW WELL	
Pool BURTON FLATS Turkey Track Marrow				Formation MORROW	
Completion Date 9-26-84		Total Depth 11450.		Plug Back To 11400.	
Elevation 3357.		Farm or Lease Name PARKWAY "17" STATE			
Test Size 4.500	Wt. 11.6	d 4.052	Set At 11450.	Perforations: From 11146. To 11220.	
Test Size 2.375	Wt. 4.7	d 1.995	Set At 11063.	Perforations: From 0. To 0.	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE				Packoff Set At 11065.	
Producing thru TUBING		Reservoir Temp. °F 220. • 11183.		Mean Annual Temp. °F 60.0	
Baro. Press. - P _a 13.2		State NEW MEXICO			
L 11183.	H 11183.	C _g 0.654	% CO ₂ 0.53	% N ₂ 0.33	% H ₂ O 0.
Prover 0.		Motor Run 4.0		Tap 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.		CHOKE
51							2175.	29.			18.0
1.	4.03 X 2.250			310.	2.0	79.	2119.	40.		8/64	1.0
2.	4.03 X 2.250			321.	6.0	80.	1990.	50.		11/64	1.0
3.	4.03 X 2.250			321.	18.0	60.	1924.	50.		16/64	1.0
4.	4.03 X 2.250			322.	39.0	69.	1767.	50.		18/64	1.0
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mcfd
1	25.64	25.42	323.2	0.9822	1.2365	1.0300	816.
2	25.64	44.78	334.2	0.9813	1.2365	1.0310	1437.
3	25.64	77.56	334.2	1.0000	1.2365	1.0343	2544.
4	25.64	114.34	335.2	0.9915	1.2365	1.0327	3712.
5							

NO.	P _t	Temp. °F	T _g	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	0.48	539.	1.44	0.943	38.5	60.2	0.654	XXXXXX	672.	374.
2	0.50	540.	1.45	0.941				XXXXXX		
3	0.50	520.	1.39	0.935						
4	0.50	529.	1.42	0.938						
5										

P ₁ 2244.5 P ₂ 5038.			
NO.	P ₁ ²	P _w ²	P ₂ ²
1	4546.	2172.	4717.
2	4013.	2036.	4144.
3	3753.	2002.	4008.
4	3169.	1905.	3628.
5			

(1) $\frac{P_c^2}{P_2^2 - P_w^2} = 3.5732$

AOI = Q $\left[\frac{P_c^2}{P_2^2 - P_w^2} \right]^n = 13264.$

(2) $\left[\frac{P_c^2}{P_2^2 - P_w^2} \right]^n = 3.5732$

Absolute Open Flow	13264.	Mcf @ 15.025	Angle of Slope @	45.0	Slope, n	1.000
Remarks:						

Approved By Commission	Conducted By	Calculated By	Checked By
	DON BENNETT	BENNETT & CATHEY, INC.	