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file

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 06-10-90			
Company Quinoco Petroleum Company				Connection				JUL 16 '90	
Pool <i>Catchlaw Draw Morrow</i>				Formation Morrow				Unit O. C. D. ARTESIA, OFFICE	
Completion Date 06-06-90		Total Depth 10,851		Plug Back TD 10,656		Elevation 3450 KB		Farm or Lease Name Catchlaw Draw <i>ut.</i>	
Csq. Size 5 1/2	Wt. 17#	d	Set At 10,851	Perforations: From 10,444 To 10,608			Well No. 15		
Thq. Size 2 3/8	Wt. 4.7	d	Set At 10,342	Perforations: From Open To End			Unit Sec. Twp. Rye. L 25 21S 25E		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 10,347		County Eddy	
Producing Thru TGB		Reservoir Temp. °F 177 @ 10,342		Mean Annual Temp. °F 60°		Baro. Press. - P _g 13.2		State N.M.	
L 10,342	H 10,342	G _g .620	% CO ₂ .91	% N ₂ .20	% H ₂ S ----	Prover	Meter Run 3.068	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	
SI							3330		PKR		48hrs.
1.	3	X	2.000	340	6.00	97	2970		PKR		1hr.
2.	3	X	2.000	350	11.00	94	2812		PKR		1hr.
3.	3	X	2.000	360	20.00	96	2680		PKR		1hr.
4.	3	X	2.000	370	41.50	96	2230		PKR		1hr.
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.	21.32	46.03	353.2	.9662	1.270	1.028	1,238
2.	21.32	63.21	363.2	.9688	1.270	1.029	1,706
3.	21.32	86.39	373.2	.9671	1.270	1.029	2,328
4.	21.32	126.11	383.2	.9671	1.270	1.030	3,401
5.							

NO.	P _t	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.	.52	557	1.52	.947	60.2	49.1 @ 60°	.620	X X X X X X X X	671	365
2.	.54	554	1.51	.945				X X X X X		
3.	.55	556	1.52	.944						
4.	.57	556	1.52	.942						
5.										

P _c 3343.2 P _c ² 11177.0				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		2991.4	8948.5	2228.5
2		2841.3	8073.2	3103.8
3		2731.1	7421.5	3755.5
4		2319.0	5377.9	5799.1
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.927$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.927$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 6.554$

Absolute Open Flow 6,554 Mcfd @ 15.025		Angle of Slope θ 45	Slope, n 1.000
Remarks:			

Approved By Division	Conducted By: Pro Well Testers	Calculated By: BM	Checked By: BM
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