

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

SEP 27 1984

Form C-122
Revised 9-1-63

45F
File

Type Test 4 POINT ☒ Initial ☐ Annual ☐ Special		O. C. D. ARTESIA, OFFICE		Test Date 9-17-84	
Company HEYCO		Connection TO AIR			
Pool UNDESIGNATED WK Morrow		Formation Morrow		Unit JNM28095	
Completion Date 9-15-84		Total Depth 12104.		Plug Back 12060.	
Elevation 3749.		Farm or Lease Name CAN-KEN "4" FEDERAL			
Size 5.500	Wt. 17.0	d 4.025	Set At 12104.	Perforations: 814 From 11841. To 11820.	
Wt. G. 2.375	Wt. 4.7	d 1.995	Set At 11737.	Perforations: From To	
Type Well - Single - Broadhead - G.C. or G.O. Multiple SINGLE		Packer Set At 11737.		County EDDY	
Producing Time TUBING		Reservoir Temp. °F 200		Mean Annual Temp. °F 60.0	
Enrg. Press. - P _a 13.2		State NEW MEXICO			
L 11817.	H 11817.	G _g 0.657	% CO ₂ 0.46	% N ₂ 0.55	% H ₂ S 0.
Prover Ø		Meter 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.	
51							2600.	86	4649.	
1.	4.03 X 1.500			495.	3.0	96.	2028.	86	4580.	6/64
2.	4.03 X 1.500			495.	5.0	94.	1370.	84	4429.	9/64
3.	4.03 X 1.500			500.	10.0	80.	1582.	86	4278.	13/64
4.	4.03 X 1.500			500.	18.0	76.	1336.	86	3998.	16/64
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, Mscf
1	10.84	39.05	508.2	0.9671	1.2337	1.0415	526.
2	10.84	50.41	508.2	0.9688	1.2337	1.0421	681.
3	10.84	71.64	513.2	0.9813	1.2337	1.0470	985.
4	10.84	96.11	513.2	0.9850	1.2337	1.0482	1327.
5							

NO.	P ₁	Temp. °F	T ₁	Z	Gas Liquid Hydrocarbon Ratio	A.P.L. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	0.75	556.	1.49	0.922	22.5	51.3	0.657	XXXXXX	671.	374.
2	0.75	554.	1.48	0.921				XXXXXX	P.S.I.A. 665.	R 411.
3	0.77	540.	1.44	0.912						
4	0.77	536.	1.43	0.910						
5										

NO.	P ₁	P _m	P ₂	P ₂ - P ₁	(1) $\frac{P_2^2}{P_2^2 - P_1^2} = 3.3704$	(2) $\left[\frac{P_2^2}{P_2^2 - P_1^2} \right]^n = 2.2708$
1	21097.	3214.	10330.	371.		
2	19733.	3090.	9545.	1156.		
3	18414.	2967.	8802.	1899.		
4	16090.	2743.	7526.	3175.		
5						

AOI = Q $\left[\frac{P_2^2}{P_2^2 - P_1^2} \right]^n = 3013.$

Post ID-2
5-3-85
Camp + BR

At Date Open Flow	3013.	Mold # 15.025	Angle of Slope °	56.	Slope, n	6.75
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BOTTOM HOLE PRESSURES MEASURED WITH AMERADA PRESSURE ELEMENTS.

Approved by Commission	Calculated by RICHARD TOWNLEY	Checked by BENNETT & CATHEY INC.
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