

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

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 5-3-73		MAY 15 1973	
Company J. M. Huber Corporation				Connection None			O. C. C.	
Pool South Carlsbad				Formation Morrow			Unit ARTESIA, OFFICE	
Completion Date 5-3-73		Total Depth 11,960		Plug Back TD 11,900		Elevation 3313 GL		Farm or Lease Name Yates King
Csg. Size 4 1/2	Wt. 11.6	Set At 11,960	Perforations: From 11,633 To 11,688			Well No. 1		
Tbg. Size 2 1/2	Wt. 6.4	Set At 11,618	Perforations: From To			Unit Sec. Twp. Rge. 22 23 26		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single					Packer Set At 11,618		County Eddy	
Producing Thru Tbg.		Reservoir Temp. °F 60		Mean Annual Temp. °F 60		Baro. Press. - P _g 13.2		State New Mexico
L	H	G _g 0.591	% CO ₂ 2.17	% N ₂ 0.42	% H ₂ S	Prover 2	Meter Run	Taps

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							2899.0				96
1.	2	x	0.500	139.0		88	2757.0				1
2.	"	"	"	248.0		94	2592.0				1
3.	"	"	"	347.0		77	2394.0				1
4.	"	"	"	559.0		93	2019.0				1
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 _{pv}	Rate of Flow Q, Mcfd
1	4.279		152.2	0.9741	1.301	1.010	834
2.	"		261.2	0.9688	"	1.016	1,431
3.	"		360.2	0.9840	"	1.025	2,022
4.	"		572.2	0.9697	"	1.036	3,200
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio Mcf/bbl.	A.P.I. Gravity of Liquid Hydrocarbons Deg.
1.	0.22	548	1.57	0.981		
2.	0.38	554	1.59	0.969		
3.	0.53	537	1.54	0.951		
4.	0.84	553	1.58	0.932		
5.						

NO.	P _r	P _w	P _r ²	P _w ²	P _r ² - P _w ²
1		3620.2	13105.8	958	
2		3465.2	12007.6	2056.4	
3		3281.2	10766.3	3297.7	
4		2819.2	7947.9	6116.1	
5					

(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 2.300$

(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.832$

AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 5,862.4$

P_c 3750.2 P_c² 14064.0

Absolute Open Flow 5,862 Mcfd @ 15.025	Angle of Slope 54	Slope, n 0.727
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Remarks: **BHP taken by A&A Engineering Company of Midland, Texas**

Approved By Commission:	Conducted By: Paul E. Powers	Calculated By: Paul E. Powers	Checked By:
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J. M. Huber - A. H. Holcomb