

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

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 6-2-80		JUN 16 1980	
Company J. M. Huber Corporation				Connection None			
Pool Yarrow - Delaware				Formation Delaware		Unit ARTESIA, OFFICE	
Completion Date May 30, 1980		Total Depth 2682		Plug Back TD 2639 2636		Elevation 3309KB	
Farm or Lease Name Featherstone McCoy							
Csg. Size 5 1/2	Wt. 14	Id 5.012	Set At 2682	Perforations: From 2585 To 2594		Well No. 2	
Tbg. Size 2 3/8	Wt. 4.7	Id 1.995	Set At 2543	Perforations: From To		Unit Sec. Twp. Rge. A 22 23S 26E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 2543		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 111 @ 2530		Mean Annual Temp. °F 70		Baro. Press. - P _g 13.2	
State New Mexico							
L 2590	H 2590	G _g 0.736	% CO ₂ 0.05	% N ₂ 19.18	% H ₂ S 0.04	Prover O.W.T.	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
5.	24 1/2 hours										
1.	2" X 3/4"					112	780	70	Pkr.		
2.	2" X 3/4"					108	738	70	Pkr.		1 hr.
3.	2" X 3/4"					105	701	70	Pkr.		1 hr.
4.	2" X 3/4"					102	637	70	Pkr.		1 hr.
5.							566	70	Pkr.		1 hr.

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	64.66		2.5" Hg.	0.9535	1.166	0.9389*	67.50
2.	110.73		7.0" Hg.	0.9568	1.166	0.9493	117.27
3.	174.23		16.0" Hg.	0.9594	1.166	0.9593	186.97
4.	303.55		40.0" Hg.	0.9619	1.166	0.9733	331.36
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Dry Gas	Mcf/bbl.
1.	*				A.P.I. Gravity of Liquid Hydrocarbons	None	Deq.
2.					Specific Gravity Separator Gas	0.736	X X X X X X X X
3.					Specific Gravity Flowing Fluid	X X X X X	
4.					Critical Pressure	668	P.S.I.A. P.S.I.A.
5.					Critical Temperature	401	R R

P_f 857.2 P_f² 734.8

NO.	P _s	P _s ²	P _f ² - P _s ²
1.	846.2	716.1	18.7
2.	831.2	690.9	43.9
3.	811.2	658.0	76.8
4.	748.2	559.8	175.0
5.			

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 4.1988571$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.7493619$$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 911.03$

Absolute Open Flow	911.03	Mcf/d @ 15.025	Angle of Slope	54° 49'	Slope, n	0.704879
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Remarks: *Conversion factor for 15.025 pressure base and an atmospheric pressure of 13.2 psi.

Approved By Commission:	Conducted By: Teffteller, Inc.	Calculated By: F. Tefteller	Checked By:
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