

NEW 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 8-20-74		AUG 26 1974	
Company J.M. Huber Corp.				Connection None				O.C.C. ARTESIA, OFFICE	
Pool Burton Flat				Formation Morrow				Unit	
Completion Date 8-20-74		Total Depth 11,735		Plug Back TD 11,533		Elevation 3235.3 GL		Farm or Lease Name Allied State Com.	
Csg. Size 4 1/2	Wt. 11.60	d	Set At 11,735	Perforations: From 11,425 To 11,456		Well No. 1			
Thg. Size 2 3/8	Wt. 4.6	d	Set At 11,395	Perforations: From To		Unit Sec. Twp. Rge. 14 215 27E			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 11,395		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 186@ 11140		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State New Mexico	
L 11,395	H 11,395	Gg .625	% CO ₂ None	% N ₂ None	% H ₂ S None	Prover	Meter Run 3.068	Taps Flange	

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.	
SI							3342			
1.	3.068		1.0	725	14.4	81	1950	70	1200	60 min.
2.	3.068		1.0	745	21.12	80	1552	71	1200	60 min.
3.	3.068		1.0	740	30.2	80	1312	72	1200	60 min.
4.	3.068		1.0	750	42.2	80	1216	72	1200	60 min.
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.	4.789	103.10	738.2	.9804	1.265	1.067	653
2.	4.789	126.54	758.2	.9813	1.265	1.068	803
3.	4.789	150.82	753.2	.9813	1.265	1.068	958
4.	4.789	179.46	763.2	.9813	1.265	1.068	1139
5.							

NO.	P _t	Temp. °R	T _f	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.	1.10	541	1.48	.879	None	None	.625	.671	365	
2.	1.13	540	1.48	.876						
3.	1.12	540	1.48	.877						
4.	1.13	540	1.48	.876						
5.										

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1.	3167.2	10091	12230	
2.	2698.2	7280	14981	
3.	2251.2	5068	17193	
4.	1937.2	3753	18508	
5.				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.2948$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1,240$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.2948$$

Absolute Open Flow	1240	Mcfd @ 15.025	Angle of Slope ϕ	45	Slope, n	1.00
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Remarks: **Pw substituted for Pt - Measured with Amerada Instrument #33118 - 10,000# element.**

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Spruell	Spruell	Richburg