

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 7- 9-73		JUL 16 1973	
Company J. M. Huber Corp.				Connection Transwestern		O. C. C.	
Pool South Carlsbad				Formation Morrow		Unit ARTESIA, OFFICE	
Completion Date 3-13-73		Total Depth 12,108		Plug Back TD 11,835		Elevation GL 3293	
Farm or Lease Name Sorenson				Well No.			
Csg. Size 5 1/2	Wt. 17.0	d 4.892	Set At 12,107	Perforations: From 11,732 To 11,778		Unit Sec. Twp. Rge. 14 23S 26E	
Tbg. Size 2 1/2	Wt. 6.5	d 2.441	Set At 11,620	Perforations: From To		County Eddy	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 11,620		State New Mexico	
Producing Thru Tbg.		Reservoir Temp. °F 198° 11,600		Mean Annual Temp. °F 60		Baro. Press. - P _g 13.2	
L 11,755	H 11,755	Gg 0.579	% CO ₂	% N ₂	% H ₂ S	Prover 4	Meter Run 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.		Temp. °F
SI							3320.0				72
1.	4 X 2.250			632.0	37.0	62	2975.0				24
2.											
3.											
4.											
5.											

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	25.64	154.5	645.2	0.9981	1.314	1.050	5454
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio Mcf/bbl.	A.P.I. Gravity of Liquid Hydrocarbons Deg.
1	0.96	522	1.51	0.907	0.579	X X X X X X X X
2.						X X X X X
3.					672	P.S.I.A. P.S.I.A.
4.					346	R R
5.						

P_c 3333.2 P_c² 11110.2

<table border="1"> <tr> <th>NO.</th> <th>P_t²</th> <th>P_w</th> <th>P_w²</th> <th>P_c² - P_w²</th> </tr> <tr><td>1</td><td></td><td>3048.7</td><td>9294.6</td><td>1815.6</td></tr> <tr><td>2</td><td></td><td></td><td></td><td></td></tr> <tr><td>3</td><td></td><td></td><td></td><td></td></tr> <tr><td>4</td><td></td><td></td><td></td><td></td></tr> <tr><td>5</td><td></td><td></td><td></td><td></td></tr> </table>	NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	1		3048.7	9294.6	1815.6	2					3					4					5					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 6.119$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.725$ AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 20,316$
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²																											
1		3048.7	9294.6	1815.6																											
2																															
3																															
4																															
5																															

Absolute Open Flow	20,316	Mcfd @ 15.025	Angle of Slope @	54	Slope, n	0.726
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Remarks: Produced 19 bbls. liquid.

Approved By Commission:	Conducted By: Paul E. Powers	Calculated By: Paul E. Powers	Checked By: J. H. Adams
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