

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

Form G-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 7/14/77		JUL 25 1977	
Company J. M. Huber Corporation				Connection Llano <i>Inc.</i>					
Pool <i>Wildcat Delaware</i>				Formation Delaware		Unit O.C.C. ARTESIA, OFFICE			
Completion Date March 3, 1977		Total Depth 12,108'		Plug Back TD CIBP @ 2800'		Elevation 3312'		Farm or Lease Name Sorenson	
Csg. Size 9-5/8"	Wt. 36#&40#	d 8.921 8.835	Set At 5329'	Perforations: From 2645' To 2665'		Well No. 1			
Tbg. Size 2-7/8"	Wt. 6.40	d 2.441	Set At 2600'	Perforations: From - To -		Unit Sec. Twp. Rge. G 14 23S 26E			
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single Gas						Packer Set At		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 78 @ 2655		Mean Annual Temp. °F		Baro. Press. - P _a 13.2		State New Mexico	
L 2655	H 2655	Gg .727	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run 3"	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.		Temp. °F
SI							655				72+
1.	3 x .500			100.0	60	82	120.0				2
2.	3 x .500			105.0	24	82	120.0				22
3.	3 x .500			100.0	24	82	120.0				24
4.	3 x .500			100.0	24	82	120.0				24
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	1.183	82.41	113.2	0.9795	1.173	1.000	112
2	1.183	53.26	118.2	0.9795	1.173	"	72
3	1.183	52.12	113.2	0.9795	1.173	"	71
4	1.183	52.12	113.2	0.9795	1.173	"	71
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.	
					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.	
1	0.17	542	1.36	1.000	Specific Gravity Separator Gas 0.727	XXXXXXX
2	0.18	542	1.36	1.000	Specific Gravity Flowing Fluid XXXXX	
3	0.17	542	1.36	1.000	Critical Pressure 668 P.S.I.A.	P.S.I.A.
4	0.17	542	1.36	1.000	Critical Temperature 398 R	R
5.						

P _c 655.0 P _c ² 429.1				
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1			17.8	411.3
2			17.8	411.3
3			17.8	411.3
4			17.8	411.3
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.043$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.043$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 116.8$$

Absolute Open Flow 117 Mcfd @ 15.025	Angle of Slope @ 45	Slope, n 1.000
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Remarks:

Approved By Commission:	Conducted By: Llano Pipeline Co.	Calculated By: Paul Powers	Checked By:
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