

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

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 3-13-73	
Company J. M. Huber Corporation		Connection	
Pool S. Carlsbad		Formation Morrow	
Completion Date 3-13-73		Total Depth 12,108	Plug Back TD 11,835
Elevation GL 3293		Farm or Lease Name Sorenson Com	
Csg. Size 5 1/2	Wt. 17	d 4.892	Set At 12,107
Perforations: From 11,732 To 11,778		Well No. 1	
Tbg. Size 2 7/8	Wt. 6.4	d 2.441	Set At 11,620
Perforations: From To		Unit Soc. Twp. Rge. 14 23S 26E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 11,620	County Eddy
Producing Thru Tbg.		Reservoir Temp. °F 198 @ 11,600	Mean Annual Temp. °F 13.2
Baro. Press. - P _a 13.2		State New Mexico	
L 11,755	H 11,755	G _g 0.585	% CO ₂ % N ₂ % H ₂ S Prover Meter Run Taps 2

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							3858.0				152
1.	2	x	3/4	266.0		100	3743.0				1
2.	"	"		423.0		110	3627.0				1
3.	"	"		563.0		59	3322.0				1
4.	"	"		717.0		56	3088.0				1
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	9.453		279.2	0.9636	1.307	1.017	3,380
2.	"		436.2	0.9551	"	1.024	5,271
3.	"		576.2	1.001	"	1.048	7,468
4.	"		730.2	1.004	"	1.062	9,619
5.							

NO.	P _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1	0.42	560	1.60	0.966	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.	0.65	570	1.63	0.953	Specific Gravity Separator Gas 0.585 XXXXXXXXXX
3.	0.86	519	1.48	0.911	Specific Gravity Flowing Fluid XXXXX _____
4.	1.09	514	1.47	0.886	Critical Pressure 672 P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature 350 °R _____ °R

* P _c 4908.2 P _c ² 24090				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 5.597$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.492$
NO.	P _f ²	* P _w	P _w ²	P _c ² - P _w ²	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 33,590$
1		4798.2	23023	1067	
2		4702.2	22111	1979	
3		4572.2	20905	3185	
4		4448.2	19786	4304	
5					

Absolute Open Flow 33,590 Mcfd @ 15.025	Angle of Slope 54	Slope, n 0.726
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Remarks: *** P_f and P_s measured by A&A Engineering Service - Data sheet attached.**
 Witness: **Darrell Harms (Transwestern)**

Approved By Commission:	Conducted By: Paul Powers	Calculated By: Paul Powers	Checked By:
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