

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

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 8-8-67		AUG 23 1967	
Company J. M. Huber Corporation				Connection None		M. D. D. 40000, 10000	
Pool Wildcat				Formation Scraper		Unit P	
Completion Date 8-13-67		Total Depth ?		Plug Back TD ?		Elevation 3259' K.B.	
Farm or Lease Name Yates-Federal				Well No. 1			
Csg. Size 4 1/2"	Wt. 11.6	d 4.000	Set At 10,870	Perforations: From 10,536' To 10,600'		Unit P	
Tbg. Size 2 3/8"	Wt. 4.7	d 1.995	Set At 10,234	Perforations: From To		Sec. 32	Twp. 20S
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 10,198		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 178 @ 10,620		Mean Annual Temp. °F 60		State New Mexico	
10,593'	H 10,593	Gg 0.615	% CO ₂ ?	% N ₂ ?	% H ₂ S ?	Prover 2"	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
SI							2604.0		Pkr.		163 hr.
1.	2	x	5/16	155.2		103	2454.0				1 hr.
2.	2	x	5/16	282.5		100	2322.0				1 hr.
3.	2	x	5/16	389.0		94	2180.0				1 hr.
4.	2	x	5/16	647.0		94	1853.0				1 hr.
5.	2	x	5/16	795.0		94	1764.0				1 hr.

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mcfd
1	1.672		168.4	0.9610	1.275	1.014	350
2	1.672		295.7	0.9536	1.275	1.022	621
3	1.672		402.2	0.9488	1.275	1.030	856
4	1.672		660.2	0.9358	1.275	1.050	1,432
5	1.672		808.2	0.9358	1.275	1.061	1,771

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
					22.5	
					49.5 @ 60	
1	0.30	563	1.54	0.972	Specific Gravity Separator Gas	0.615
2	0.44	560	1.53	0.958	Specific Gravity Flowing Fluid	0.769
3	0.60	554	1.52	0.942	Critical Pressure	671 P.S.I.A.
4	0.98	554	1.52	0.907	Critical Temperature	365 °R
5	1.20	554	1.52	0.889		

NO.	P _r ²	P _w ²	P _w ²	P _r ² - P _w ²
1		2748.0	7551.5	501.0
2		2630.0	6916.9	1135.6
3		2469.6	6098.9	1953.6
4		2188.2	4788.2	3264.3
5		1955.8	3825.2	4227.3

Absolute Open Flow		Angle of Slope		Slope, n	
3,000 Mcfd @ 15.025		51.5		0.792	

Remarks: P_r and P_w calculated from BHP test conducted by A & A Engineering Service of Midland, Texas.

Approved By Commission:	Conducted By: Paul C. Powers	Co. Checked By: Paul C. Powers	Checked By: D. N. Holcomb
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