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C-122

WORTH OIL AND GAS COMPANY BACK PRESSURE TEST FOR GAS WELL RECEIVED Form O-122
Revised 9-2-66

MAR 12 1974

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special				Test Date 2-1-74		O. C. C. ARTESIA, OFFICE			
Company Texas Oil & Gas Corp.				Connection None					
Pool Burton Flat				Formation Morrow		Unit			
Completion Date 12-15-73		Total Depth 11,760		Plug Back TD 11,669		Elevation 3254 GR		Farm or Lease Name Yates Federal	
Csq. Size 4 1/2	Wt. d	Set At 11,758	Perforations: From 11,170 To 11,626			Well No. 2			
Tng. Size 2 3/8	Wt. d	Set At 11,117	Perforations: From open To ended			Unit Sec. Twp. Rje. E 18 20S 29E			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single					Packer Set At 11,117		County Eddy		
Producing Thru Tubing		Reservoir Temp. *F 82 @ 11,550		Mean Annual Temp. *F 60		Baro. Press. - P _a 13.2		State New Mexico	
L 11,117	H 11,117	G _g .6172	% CO ₂ .78	% N ₂ .28	% H ₂ S None	Prover	Meter Run 4"	Taps Flanged	

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				L-10 chart			3350		Packer	Choke	
1.	4	X	1.250	8.40	2.51	76	2419	61		7/64	1.00
2.	4	X	1.250	8.40	4.25	80	2032	61		9/64	1.00
3.	4	X	1.250	8.40	4.82	79	1561	61		12/64	1.00
4.	4	X	1.250	8.40	5.41	80	1222	60		15/64	1.00
5.											

RATE OF FLOW CALCULATIONS								
NO.	Coefficient (24 Hour)	Meter Factor	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd	
1	7.469	3.162	2.51	8.40	0.9850	1.273	1.059	661
2	7.469	3.162	4.25	8.40	0.9813	1.273	1.057	1113
3	7.469	3.162	4.82	8.40	0.9822	1.273	1.057	1263
4	7.469	3.162	5.41	8.40	0.9813	1.273	1.058	1418
5								

NO.	P _r	Temp. *R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.			
1.	1.05	536	1.48	0.892	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.			
2.	1.05	540	1.49	0.895	Specific Gravity Separator Gas 0.6172 X X X X X X X X			
3.	1.06	539	1.49	0.894	Specific Gravity Flowing Fluid X X X X X			
4.	1.08	540	1.49	0.892	Critical Pressure 671 P.S.I.A. _____ P.S.I.A. _____			
5.					Critical Temperature 362 R R			

NO.	P _r ²	P _w ²	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 2.552$	
1		3208.2	10293	6632		AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1687$
2		2713.2	7361	9564		
3		2147.2	4610	12315		
4		1724.2	2973	13952		
5						

P _c 4114 P _c ² 16,925		RECEIVED MAR - 8 1974 U. S. GEOLOGICAL SURVEY ARTESIA, NEW MEXICO	
Absolute Open Flow 1687 Mcfd @ 15.025 Angle of Slope @ 45 Slope, n 1.00			
Remarks: Bottom hole pressure measured with Amerada gauge @ 11,540 100"-1000# meter range			
Approved By Commission:	Conducted By:	Calculated By:	Checked By: