

NE MEXICO OIL CONSERVATION COMMS. N
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED
Form G-122
Revised 9-66

JAN 14 1971

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 10-3-70			
Company Morris R. Antweil						Connection None			
Well Wilcoat <i>Strawn</i>						Formation Strawn		Unit	
Completion Date 10-3-70		Total Length 11,825		Plug Back TD 11,614		Elevation 3204 DF		Farm or Lease Name Allen	
Depth 5.5	Wt. 12-23	d	Set At 11,825	Perforations: From 10,238 To 10,375		Well No. 1-UT			
Log. Size 2-1/16	Wt. 3.25	d 1.75	Set At 10,166	Perforations: From None To		Unit Sec. Twp. Rge. -J 31-22-S-27-E			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G. G. Multiple (Dual)						Packer Set At 11,370		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 171 @ 10,307		Mean Annual Temp. °F		Baro. Press. - P _a 13.2		State New Mexico	
L 10307	H 10307	Gg .664	% CO ₂ ---	% N ₂ ---	% H ₂ S 0	Prover	Meter Run 3"	Tag 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							4243	60	N A		72 Hrs.
1.	3.068	x	1.500	792	14.0	65	4031	78			1 Hr.
2.	3.068	x	1.500	818	20.5	70	3968	78			1 Hr.
3.	3.068	x	1.500	819	27.5	64	3898	78			.5 Hrs.
4.	3.068	x	1.500	927	47.0	57	3684	78			1 Hr.
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	11.13	106.2	805.2	.9952	1.227	1.087	1569
2	11.13	130.5	831.2	.9905	1.227	1.087	1919
3	11.13	151.3	832.2	.9962	1.227	1.090	2244
4	11.13	210.2	940.2	1.003	1.227	1.109	3193
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	26.382	Mcfd/bbl.
1	1.20	525	1.39		A.P.I. Gravity of Liquid Hydrocarbons	58.1	Deg.
2	1.24	530	1.40		Specific Gravity Separator Gas	.664	X X X X X X X X
3	1.24	524	1.39		Specific Gravity Flowing Fluid	X X X X X	.771
4	1.40	517	1.37		Critical Pressure	670	P.S.I.A. 666 P.S.I.A.
5					Critical Temperature	378	R 415 R

NO.	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{18115}{3339}$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 5.425$
1	4069.2	16558	1557		
2	4031.2	16251	1863		
3	3993.3	15946	2169		
4	3843.9	14776	3339		
5					

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 17322$

Absolute Open Flow	17,320	Mcfd @ 15.025	Angle of Slope	45°	Slope, n	1.0000
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Remarks:			
Approved By Commission:	Conducted By: Bill Kerley	Calculated By: Larry Cone	Checked By: Larry Cone

Company : Morris R. Antwein
 Well : Allen No. 1-UT
 Location : 31 - 22S -27E
 County : Eddy
 Date : 10-3-70

