

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Revised 9-1-65

RECEIVED

C/SF
C-122

Type Test ☒ Initial FOUR POINT ☐ Annual ☐ Special						Test Date 2-25-82		APR 2 1982	
Company ANADARKO Prod. Co. ✓				Connection AIR NEW WELL				O. C. D.	
Pool 62nd Lake Marcellus UNDESIGNATED				Formation MORROW				Unit ARTESIA, OFFICE	
Completion Date 2-24-82		Total Depth 11,552		Plug Back TD 11550		Elevation 3550KB		Farm or Lease Name ARNOLD FED. COM.	
Coq. Size 4.50	Wt. 11.6	d 4.000	Set At 11,552	Perforations: From 11,338 To 11,434		Well No. 1			
Fig. Size 2.375	Wt. 4.7	d 1.995	Set At 11,346	Perforations: From OPEN To ENDED		Unit Sec. Twp. Rge. G 34-17-30			
Type Well - Single - Brdenhead - C.G. or G.O. Multiple SINGLE				Packer Set At 11,346		County EDDY			
Producing Thru TUBING		Reservoir Temp. °F 164 @ 11,338		Mean Annual Temp. °F 60°		Baro. Press. - P _g 13.2		State NEW MEXICO	
L 11,338	H 11,338	Gg .813	% CO ₂ .60	% N ₂ .54	% H ₂ S	Prover	Meter Run 4.028	Taps FLANGE	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							3586		5068		43-3/4 HR.
1.	4.028	X	2.750	610	7.0	27	3419	57	5012		1
2.	4.028	X	2.750	630	15.0	40	3284	58	4960		1
3.	4.028	X	2.750	600	30.0	40	2969	55	4903		1
4.	4.028	X	2.750	705	38.0	50	2719	46	4824		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	42.1500	66.05	623.2	1.0333	1.1091	1.1539	3682
2	42.1500	98.22	643.2	1.0198	1.1091	1.1403	5340
3	42.1500	135.63	613.2	1.0198	1.1091	1.7308	7312
4	42.1500	165.20	718.2	1.0098	1.1091	1.1471	8945
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/Lbl.	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
1	.94	487	1.15	.751	Specific Gravity Separator Gas .8130	XXXXXX
2	.97	500	1.18	.769	Specific Gravity Flowing Fluid XXXXX	.8482
3	.92	500	1.18	.782	Critical Pressure 666	P.S.I.A. _____
4	1.08	510	1.20	.760	Critical Temperature 424	R _____ R
5						

NO.	P _i	P _w	P _w ²	P _e ² - P _w ²
1	3599.2	3417.1	11676.5	1278.0
2		3369.0	11350.5	1604.0
3		3211.3	10312.7	2642.0
4		3113.7	9695.2	3259.0
5				

$$(1) \frac{P_e^2}{P_e^2 - P_w^2} = 3.9749$$

$$AOF = Q \left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 33,060.9$$

$$(2) \left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 3.6969$$

Posted ID-2
+ Comp. Book
SI
4-16-82

Absolute Open Flow 33,060.9 Mcfd @ 15.025		Angle of Slope 46.6	Slope, n .9473
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Remarks: BOTTOM HOLE PRESSURES MEASURED WITH AMERADA PRESSURE ELEMENTS

Approved By Commission:	Conducted By: RICHARD TOWNLEY	Calculated By: BENNETT-CATHEY	Checked By:
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