

AUG 30 1977

File
122 file

Type G.C.C. ARTESIA, OFFICIAL		☐ Annual ☐ Special		Test Date 8-16-77	
Company CITIES SERVICE CO.			Connection NONE		
Pool M. Burton Flats Wolfcamp			Formation WOLFCAMP		Unit
Completion Date 8-11-77		Total Depth 11315'		Plug Back TD 9760'	Elevation 3299.5 GL
Farm or Lease Name GOVERNMENT "S"					
Csg. Size 5 1/2	Wt. 17#	d 2.441	Set At 10589'	Perforations: From 9020' To 9366'	
Thq. Size 2 7/8	Wt. 6.5	d 2.441	Set At 8936'	Perforations: From OPEN To END	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE			Packer Set At 8920'		County EDDY
Producing Thru TUBING		Reservoir Temp. °F 168° @ 9380'		Mean Annual Temp. °F 74°	
Baro. Press. - P _g 13.2		State NEW MEXICO			
L 9380'	H 9380'	Cg .694	% CO ₂ .63	% N ₂ 4.73	% H ₂ S Prover
Meter Run 4"		Taps 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	Duration of Flow
SI							2477		SHUT IN		
1.	4	x	1.00	480	1	80	2168	87			1 HOUR
2.	4	x	1.00	490	3	75	1775	86			1 HOUR
3.	4	x	1.00	480	5	73	1410	85			1 HOUR
4.	4	x	1.00	510	9	70	1112	84			1 HOUR
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	4.753	22.21	493.2	.9813	1.200	1.052	131
2	4.753	38.85	503.2	.9859	1.200	1.055	230
3	4.753	49.66	493.2	.9877	1.200	1.055	295
4	4.753	68.62	523.2	.9905	1.200	1.059	411
5.							

NO.	P _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio 4.583 Mcf/bbl.
1.	.74	540	1.39	.903	A.P.I. Gravity of Liquid Hydrocarbons 54.8 AT 60 Deg.
2.	.75	535	1.38	.899	Specific Gravity Separator Gas .694 X X X X X X X X
3.	.74	533	1.37	.898	Specific Gravity Flowing Fluid X X X X X G-MIX 1.248
4.	.78	530	1.37	.892	Critical Pressure 669 P.S.I.A. P.S.I.A.
5.					Critical Temperature 388 R R

NO.	P _f ²	P _s ²	P _s ² - P _f ²	(1) $\frac{P_f^2}{P_s^2 - P_f^2} = 1.538$	(2) $\left[\frac{P_f^2}{P_s^2 - P_f^2} \right]^n = 1.453$
1	3691.2	13625.0	2852.1	ACF = Q $\left[\frac{P_f^2}{P_s^2 - P_f^2} \right]^n = 597$	<i>Post test - 1200</i>
2	3386.2	11466.4	5010.7		
3	3036.2	9218.5	7258.6		
4	2400.2	5761.0	10716.2		
5					

Absolute Open Flow 597 Mcfd @ 15.025	Angle of Slope 49	Slope, n .869
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Remarks: BOTTOM HOLE PRESSURES MEASURED WITH KUSTER GAUGE. WELL MADE 9.7 BBLS. OF CONDENSATE	
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Approved By Commission:	Conducted By: JOHN WEST ENG.CO.	Calculated By: R. E. R.	Checked By:
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