

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

35
File ✓
122
Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 11-15-79		DEC 4 - 1979	
Company CITIES SERVICE COMPANY				Connection To AIR				Unit D.C.C.	
Pool North B. Cotton Flat Wolfcamp				Formation WOLFCAMP				Farm or Lease Name GOVERNMENT "11"	
Completion Date 11-14-79		Total Depth 11,490'		Plug Back TD 10,947'		Elevation 3230 GL		Well No. 1	
Csg. Size 5 1/2"	Wt. 14.00	Id. 5.012	Set At 11,490'	Perforations: From 9119 To 9216		Unit Sec. Twp. Rye. G 22 20S 28E			
Tbg. Size 2 7/8"	Wt. 6.40	Id. 2.875	Set At 9037'	Perforations: From OPEN To END		County EDDY			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE						Packer Set At 9028'		State NEW MEXICO	
Producing Thru TUBING		Reservoir Temp. °F 166 @ 9170		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		Meter Run 2"	
L 9170	H 9170	Gg 681	% CO ₂ NIL	% N ₂ 1.137	% H ₂ S	Prover 2"		Taps FLG	

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.	
SI							2657			
1.	2 x 1.00			351	24	78	1855	62		
2.	2 x 1.00			350	27	80	1740	64		
3.	2 x 1.00			355	40	81	1550	66		
4.	2 x 1.00			370	58	75	1268	67		
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	4.946	93.49	364.2	.9831	1.212	1.036	571
2	4.946	99.03	363.2	.9813	1.212	1.036	604
3	4.946	121.36	368.2	.9804	1.212	1.036	739
4	4.946	149.08	383.2	.9859	1.212	1.040	916
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mct/bbl.
1.	.54	538	1.40	.931	A.P.I. Gravity of Liquid Hydrocarbons 49.6 @ 60° _____ Deg.
2.	.54	540	1.40	.931	Specific Gravity Separator Gas 681 _____ XXXXXXXXXX
3.	.55	541	1.41	.931	Specific Gravity Flowing Fluid _____ XXXXX G Mix 1.311
4.	.57	535	1.39	.925	Critical Pressure 669 _____ P.S.I.A.
5.					Critical Temperature 385 _____ R

P _c 3135.4	P _c ² 9830.7	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.497$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.457$
NO.	P _i ²	P _w	P _w ²
1		2551.1	6508.1
2		2365.4	5595.1
3		2195.1	4818.5
4		1806.6	3263.8
5			

Absolute Open Flow 1.335 Mcfd @ 15.025		Angle of Slope θ 47	Slope, n 933
Remarks:			
Approved By Commission: _____ Conducted By: W.S. _____ Calculated By: R.R. _____ Checked By: J.W. _____			