

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

Copy 4-1
Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 5-5-75		MAY 21 1975	
Company CITIES SERVICE OIL COMPANY				Connection TO AIR				O. C. C.	
Pool BURTON FLAT				Formation WOLFCAMP				Unit ARTESIA, OFFICE	
Completion Date 5-5-75		Total Depth 11449'		Plug Back TD 11336'		Elevation		Farm or Lease Name GOVERNMENT AB	
Csg. Size 5 1/4"	Wt. 17#	d 4.892	Set At 11449	Perforations: From 9114 To 9140		Well No. 2			
Tbg. Size 2 7/8"	Wt. 4.6#	d 2.441	Set At 8985'	Perforations: From OPEN To ENDED		Unit Sec. Twp. Rge. L 10 20S 28E			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE						Packer Set At 8982'		County EDDY	
Producing Thru TUBING		Reservoir Temp. °F 168° @ 9140'		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2		State NEW MEXICO	
L 9140'	H 9140'	Gg 0.706	% CO ₂ 0.14	% N ₂ 1.01	% H ₂ S 0.01GR/100	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.	
SI							3042.0			CHOKE
1.	4" X 2.000"			280.0	16.0	72	2277.0	81		19/64
2.	4" X 2.000"			280.0	8.0	70	2253.0	82		18/64
3.	4" X 2.000"			280.0	4.0	70	2229.0	82		17/64
4.	4" X 2.000"			280.0	3.0	70	2230.0	81		16/64
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	19.81	68.49	293.2	.9887	1.190	1.032	1647
2	19.81	48.43	293.2	.9905	1.190	1.033	1168
3	19.81	34.25	293.2	.9905	1.190	1.033	826
4	19.81	29.66	293.2	.9905	1.190	1.033	715
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	3.180 Mcf/bbl.
1.	0.44	532	1.37	.939	A.P.I. Gravity of Liquid Hydrocarbons	57.5 Deg.
2.	0.44	530	1.36	.938	Specific Gravity Separator Gas	0.706 XXXXXXXXXX
3.	0.44	530	1.36	.938	Specific Gravity Flowing Fluid	XXXXXX
4.	0.44	530	1.36	.938	Critical Pressure	667 P.S.I.A. P.S.I.A.
5.					Critical Temperature	389 R R

P _F 4303.2 P _F ² 18518				(1) $\frac{P_F^2}{P_F^2 - P_S^2} = 3.3632$		(2) $\left[\frac{P_F^2}{P_F^2 - P_S^2} \right]^n = 1.8339$	
NO	P _t ²	P _S	P _S ²	P _F ² - P _S ²			
1		3764.2	14169	4349			
2		3684.2	13573	4945			
3		3628.2	13164	5354			
4		3607.2	13012	5506			
5							

Absolute Open Flow				1311 Mcfd @ 15.025	Angle of Slope @	63.4°	Slope, n	0.500 LIMIT
Remarks: BOTTOM HOLE PRESSURES MEASURED WITH AMERADA GAUGE @ 9140 FEET								
TEST CONDUCTED IN REVERSE SEQUENCE DUE TO FLUID PRODUCTION								
POINT ALIGNMENT NO GOOD - 0.50 LIMIT SLOPE DRAWN THROU LOW RATE OF FLOW								
Approved By Commission:			Conducted By:			Calculated By:		
			G. PARKER			R. WEST		
						J.W.W.		