

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

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☐ Initial ☐ Annual ☒ Special				Test Date 1-4-73		JAN 15 1973	
Company Corinne Grace				Connection Transwestern Pipeline Co.		O. C. C.	
Pool South Carlsbad				Formation Morrow		Unit ARTESIA, OFFICE	
Completion Date 8-27-72		Total Depth 12,012		Plug Back TD 11,765		Elevation 3162 Gr.	
Farm or Lease Name Go Po Go							
Csg. Size 7	Wt. 29, 26, 23	Set At 11,810	Perforations: From 11,382 To 11,432				Well No. 2
Tbg. Size 2-7/8"	Wt. 11,366	Set At 11,366	Perforations: From Open To Ended				Unit Sec. Twp. Rge. G 24 22S 26E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 11,360		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 194 @ 11,490		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
State New Mexico							
L 11366	H 11366	G _g .5794	% CO ₂ .0097	% N ₂ .0026	% H ₂ S .28 or/100	Prover 100 -	Meter Run 6"
						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
SI							2797.0		Packer		4.0
1.	6" X 3.75"			491.8	5.5	81	2663.0	62			1.0
2.	6" X 3.75"			504.8	11.5	54	2502.0	67			1.0
3.	6" X 3.75"			521.8	22.0	50	2190.0	69			1.0
4.	6" X 3.75"			536.0	31.5	50	1853.0	70			1.0
5.	6" X 3.75"			536.8	40.0	50	1420.0	70			9.75

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{P_m P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	73.20	52.71	505.0	.9804	1.314	1.034	5140
2	73.20	77.18	518.0	1.006	1.314	1.042	7782
3	73.20	108.49	535.0	1.010	1.314	1.046	11024
4	73.20	131.62	550.0	1.010	1.314	1.047	13387
5	73.20	148.32	550.0	1.010	1.314	1.047	15086

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio TSTM	Mcf/bbl.
1	0.75	541	1.56	.935	A.P.I. Gravity of Liquid Hydrocarbons	Deq.
2	0.77	514	1.49	.921	Specific Gravity Separator Gas	XXXXXXX
3	0.80	510	1.47	.914	Specific Gravity Flowing Fluid	XXXXX
4	0.82	510	1.47	.912	Critical Pressure	P.S.I.A.
5	0.82	510	1.47	.912	Critical Temperature	°R

NO.	P _r ²	P _w ²	P _w ²	P _r ² - P _w ²
1	3503.2	12272	589.0	
2	3443.2	11856	1005	
3	3350.2	11224	1127	
4	3262.2	10642	2219	
5	3146.2	9899	2962	

(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 5.7958$

AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 50,624$

(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 3.7816$

Absolute Open Flow	50.624	Mcf/d @ 15.025	Angle of Slope @	52.9	Slope, n	0.757
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Remarks: Bottom hole pressure measured with Amerada bomb @ 11,490'

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	M.C.T.	R.W.	J.W.W.