

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 2-16-73		MAR 1 1973	
Company El Paso Natural Gas Company						Connection None		O. C. C. ARTESIA, OFFICE	
Pool Wildcat						Formation Morrow		Unit	
Completion Date 2-16-73		Total Depth 14,890		Plug Back TD 14,768		Elevation 3315.5 GL		Farm or Lease Name Mobil Federal	
Csg. Size 5 1/2	Wt. 20	d 	Set At 14,890	Perforations: From 14,376 To 14,599		Well No. 1			
Tbg. Size 3 1/2	Wt. 9.2	d 2.932	Set At 12,015	Perforations: From Open To End		Unit J	Sec. 29	Twp. 23	Rge. 31
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 12,015		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 225 @ 14,499		Mean Annual Temp. °F 		Baro. Press. - P _a 13.2		State New Mexico	
L 14,599	H 14,599	Gg .576	% CO ₂ 	% N ₂ 	% H ₂ S 	Prover 	Meter Run 4"	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.		Temp. °F
SI							5128		616		78 hrs.
1.	4	x	2.000	605	4.50	60	4615	48	616		1 hr.
2.	4	x	2.000	630	7.50	60	4275	48	616		1 hr.
3.	4	x	2.000	655	14.00	50	3700	48	616		1 hr.
4.	4	x	2.000	660	20.00	50	3113	49	616		1 hr.
5.	4	x	2.000	650	22.00	34	2355	48	700		4 hrs.

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _L	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	19.81	52.74	618.2	1.000	1.318	1.049	1,444
2	19.81	69.46	643.2	1.000	1.318	1.051	1,906
3	19.81	96.72	668.2	1.010	1.318	1.053	2,686
4	19.81	116.03	673.2	1.010	1.318	1.054	3,225
5	19.81	120.79	663.2	1.026	1.318	1.068	3,456

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.	.92	520	1.50	.909	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.	.96	520	1.50	.905	Specific Gravity Separator Gas .576 X X X X X X X X
3.	.99	510	1.47	.902	Specific Gravity Flowing Fluid X X X X X
4.	1.00	510	1.47	.901	Critical Pressure 672 P.S.I.A. _____ P.S.I.A.
5.	.99	494	1.43	.876	Critical Temperature 346 R _____ R

P _c 5141.2	P _c ² 26431.9	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.717$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.384$
NO.	P _t ²	P _w	P _w ²
1	* 4803.1	23069.8	3362.1
2	* 4463.9	19926.4	6505.5
3	* 3893.5	15159.3	11272.6
4	* 3322.4	11038.3	15393.6
5	* 2549.0	6497.4	19943.5

Absolute Open Flow 4,463 Mcfd @ 15.025		Angle of Slope @ 59	Slope, n .601
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Remarks: **Made .59 bbls. water and trace of condensate throughout test.**
*** Calculated from known B.H.P. that were run by Tom Hansen Company**

Approved By Commission:	Conducted By: R. Reston, R. Kiker, J.C. Roberts	Calculated By: J. B. Murray	Checked By:
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