

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 7/6/76	
Company The Superior Oil Company		Connection Llano	
Pool Wildcat		Formation Morrow	
Completion Date 6/6/73		Total Depth 11476	Plug Back TD 11370
		Elevation 3293 GR	Farm or Lease Name State "Q" Com
Csg. Size 7"-5"	Wt. 18#	Set At	Perforations: From 11086 To 11244
Thq. Size 2-7/8"	Wt. 6.5	Set At 10999	Perforations: Open Ended From To
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 10,998	County Eddy
Producing Thru Tubing L	Reservoir Temp. °F 188 @ 11260	Mean Annual Temp. °F 60	Baro. Press. - P _a 13.2
State New Mexico			
L 10999	H 10999	G _g .602	% CO ₂ 1.35
		% N ₂ .28	% H ₂ S
Prover 4"		Meter Run Flange	Taps

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	4.026						2302				43
1.			1.5	740	9	79	1342	60			2-1/4
2.			1.5	755	12	74	1140	60			2
3.			1.5	760	14	75	990	60			1-1/4
4.			1.5	765	16	74	882	60			3/4
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	10.84	82.33	753.2	.9822	1.289	1.059	901
2	10.84	96.01	768.2	.9868	1.289	1.059	1077
3	10.84	104.0	773.2	.9859	1.289	1.060	1174
4	10.84	111.6	778.2	.9868	1.289	1.061	1271
5							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons	Deq.
2.					Specific Gravity Separator Gas	.602
3.					Specific Gravity Flowing Fluid	X X X X X
4.					Critical Pressure	676 P.S.I.A.
5.					Critical Temperature	357 °R

P _c 2317	P _c ² 5368			
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		1359	1847	3521
2		1160	1346	4022
3		1011	1022	4346
4		906	821	4547
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{1.18056}{1.18056 - 1.18056} = 1.18056$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1500$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{1.18056}{1.18056 - 1.18056} = 1.18056$$

Absolute Open Flow 1500 Mcfd @ 15.025	Angle of Slope 45°	Slope, n 1
Remarks:		

Approved By Commission: <i>Selma Morris</i>	Conducted By: Ernie Hanson	Calculated By: P.R. Blancett	Checked By:
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