

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

RECEIVED

JUL 5 1974

☒ Initial ☐ Annual ☐ Special		Test Date 6-27-74
Company Monsanto Company		Connection None
Well Name Chalco mesa Gas 2.4861 10-9-74		Formation Morrow
Completion Date 6-27-74	Total Depth 10,875	Plug Back TD 10,820
Elevation 3205 Gr		Form or Lease Name Pecos
Casing Size 8 1/2 17 & 20	Set At 10,875	Perforations 10,664 to 10,674 From 10,666 To 10,710
Casing Weight 2 7/8 EUE 6.5	Set At 10,446	Perforations From To
Completion - Single - Staggered - G.G. or G.O. Multiple Single		Pecker Set At 10,436
Pressure - Barrels Temp. *F 182 @ 10,875		Mean Annual Temp. *F 60
Baro. Press. - P _a 13.2		State New Mexico
C 10,637	H 10,687	Gr .582
% CO ₂	% N ₂	% H ₂ S
Prover	Water Run	Type

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Flow Rate, gpm	X	Casing Size	Press. psia	Diff. Pw	Temp. °F	Press. psia	Temp. °F	Press. psia	Temp. °F	
1	4.3		2.250	208	12.5	84	2037	80			1 hr
2	4.3		2.250	208	29	85	2050	84			1 hr
3	4.3		2.250	210	36	90	1852	85			1 hr
4	4.3		2.250	210	45	90	1208	89			1 hr
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 F _{scv}	Rate of Flow Q, Vols
1	25.99	52.58	221.2	.9777	1.3108	1.015	1777
2	25.99	80.09	221.2	.9768	1.3108	1.015	2705
3	25.99	89.62	223.2	.9723	1.3108	1.014	3011
4	25.99	100.2	223.2	.9723	1.3108	1.014	3039

NO.	P _i	Temp. *R	T _i	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	.83	544	1.55	.970	None Produced		.582	XXXXXX	672	353
2	.83	545	1.55	.971				XXXXXX		
3	.83	550	1.57	.972						
4	.83	550	1.57	.972						

NO.	P _i	P _w	P _w ²	P _i ² - P _w ²	(1) $\frac{P_i^2}{P_i^2 - P_w^2} = \frac{12028}{4810}$	(2) $\left[\frac{P_i^2}{P_i^2 - P_w^2} \right]^n = \frac{2.336113}{1}$
1	2636.7	7218	4810			
2	2081.4	4362	7696			
3	1802.1	3247	3781			
4	1271.4	1516	10412			

For data Open Flow 4258 Mvd @ 15.025 Angle of Slope @ 45" 20' Slope, n .950

Remarks: Well was shut-in 74 hours prior to the start of this test.

Conducted By: R G Robinson Calculated By: J. Ingles Checked By: