

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

Form C-122
Revised 9-1-65

Type Test ☒ Flow ☐ Annual ☐ Special		Test Date 3-24-81	
Company MINERALS, INC.		Operator PHILLIPS PETROLEUM CO.	
Well WILDCAT		Location ATOKA	
Date 3-17-81		Well No. 1	
Depth 13403		Perforations 12902	
Casing Size 4 1/2		Casing Weight 13.5	
Casing Pressure 3.920		Casing Temperature 13396	
Casing Depth 11394		Casing Perforations 11394	
Casing Perforations 11394		Casing Perforations 11394	
Type Well - Single - Frothhead - G.G. or G.O. Multiple SINGLE		Packer Set At 11400	
Protecting Valve Tbg		Reservoir Temp. °F 170 @ 12851	
Mean Annual Temp. °F 60		Baro. Press. - P _g 13.2	
L 11394		H 12851	
G _g .6428		% CO ₂ .389	
% N ₂ .893		% H ₂ S -	
Prover 4		Meter Run Flg	
County LEA			
State NEW MEXICO			

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Griffice Size	Press. p.s.i.g.	Diff. h _{lv}	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
1.	4		1.75	175	1	60	2725	54	PKR		24 hrs
2.	4		1.75	180	1	60	2125	52			24 hrs.
3.	4		1.75	175	1	60	760	55			24 hrs.
4.	4		1.75	180	2	60	450	52			24 hrs.
5.							350				

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 _{sp}	Rate of Flow Q, Mscf/d
1	15.24	12.20	188.2	1.0	1.25	.964	880
2	15.24	13.56	193.2	1.0	1.25	.964	940
3	15.24	11.93	188.2	1.0	1.25	.964	870
4	15.24	20.30	193.2	1.0	1.25	.964	1150
5							

NO.	P _c	Temp. °R	T _c	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	.28	60	1.41	.964	144	64	.6428	XXXXXX	669	369
2	.29	60	1.41	.964						
3	.28	60	1.41	.964						
4	.29	60	1.41	.964						
5										

NO.	P _c	P _w	P _w ²	P _c ² - P _w ²
1	4571.9			
2	597.8			
3	214.6			
4	131.9			
5				

Absolute Open Flow 1450		Angle of Slope 45°	
Slope, n 1.00			
Remarks: WELL NOT STABILIZING, NO POINT ALIGNMENT, ASSUME SLOPE OF 1.00 THROUGH LOWEST FLOW RATE.			
Approved By Commission	Conducted By:	Calculated By:	Checked By: