

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

APR 24 1987

dst file
Form C-122
Revised 9-1-63

Type Test 4POINT ☒ Initial ☐ Annual		ARTESIA, OFFICE SPECIAL		Test Date 2/11/87							
Company MCKAY OIL CORP.		Connection TO AIR									
Pool PECOS ABO		Formation ABO		Unit							
Completion Date 2/8/87		Total Depth 3400		Elevation 4061							
Well Size 4.5		Set At 3281		Perforations: From 3207 To 2846							
Well Size 2.375		Set At 2679		Perforations: From OPEN ENDED							
Type Well - Circle - Bordenhead - G.G. or G.O. Multiple SINGLE				Packer Set At NONE							
Producing Thru TUBING		Reservoir Temp. °F 98 • 2777		Mean Annual Temp. °F 60							
				Baro. Press. - P _a 13.2							
L 2777		H 2777		C _g 0.624							
				% CO ₂ 0.00							
				% N ₂ 6.666							
				% H ₂ O 0							
				Prover 2.000							
				Motor Run 0							
				Taps 0							
COUNTY CHAVES											
STATE NEW MEXICO											
FLOW DATA											
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. in w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
51							800	60	800	60	72 HRS
1.	2.000	.125	780	0.00	62	780	62	780	62	60 MIN	
2.	2.000	.1375	745	0.00	68	745	68	745	68	60 MIN	
3.	2.000	.21875	705	0.00	70	705	70	705	70	60 MIN	
4.	2.000	.250	640	0.00	70	640	70	645	70	60 MIN	
5.	2.000	.3125	515	0.00	66	515	66	525	66	60 MIN	
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, Fpv	Rate of Flow Q, Mc/d				
1	0.2648	0.00	793.2	.9981	1.266	1.062	282				
2	0.6082	0.00	758.2	.9924	1.266	1.056	609				
3	0.8393	0.00	718.2	.9905	1.266	1.053	795				
4	1.087	0.00	653.2	.9905	1.266	1.045	920				
5	1.672	0.00	528.2	.9943	1.266	1.040	1155				
Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl											
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg											
1	1.20	522	1.51	.887	Specific Gravity Separator Gas .624	XXXXXXXXXX					
2	1.15	528	1.53	.896	Specific Gravity Flowing Fluid XXXXX	.624					
3	1.09	530	1.54	.909	Critical Pressure 659	P.S.I.A.					
4	.99	530	1.54	.915	Critical Temperature 345	R					
5	.80	526	1.52	.924							
$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.78167$ $(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = -1.3347$						Post ID-2 5-8-87 comp & RK					
NO.	P ₁ ²	P _w	P ₂ ²	P _c ² - P _w ²							
1		793.2	629	32							
2		758.2	525	86							
3		718.2	515	145							
4		653.2	475	228							
5		528.2	371	321							
Absolute Open Flow 1543						Mc/d @ 15.025					
Angle of Slope 63.5						Slope 5.00					
Remarks											
Approved By Commission		Conducted By		Calculated By		Checked By					