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NEW MEXICO DIVISION OF CONSERVATION COMMISSION
 APR 27 1987
 MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL
 O. C. D.
 ARTESIA, OFFICE

Form C-122
Revised 9-1-65

Type Test 4 Point ☒ Initial ☐ Annual ☐ Special				Test Date 3-12-87	
Company McKay Oil Corp.			Connection To air		
Pool Pecos Slope Abo			Formation Abo		
Completion Date 3-9-87		Total Depth 3500		Plug Back To 3462	
Elevation 4203		Farm or Lease Name Miller Federal			
Case Size 4.500	Wt. 9.500	d 4.052	Set At 3532	Perforations: From 2971 To 3370.5	
Thq. Size 2.375	Wt. 4.700	d 1.905	Set At 2944	Perforations: From open To ended	
Type Well - Single - Handhead - G.G. or G.O. Multiple Signal				Packer Set At none	
Producing Thru Tubing		Reservoir Temp. °F 101 # 3171		Mean Annual Temp. °F 60	
				Baro. Press. - P _a 13.2	
L 3171		H 3171		G _g .589	
				% CO ₂ 0	
				% N ₂ 6.982	
				% H ₂ S 0	
				Prover 2.000	
				Motor Run 0	
				Tape 0	

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
51							625	64	625	64	72hrs
1.	2.000	0.09275		583	0.00	64	583	64	590	64	60min
2.	2.000	0.1250		515	0.00	65	515	65	520	65	60min
3.	2.000	0.1275		280	0.00	65	280	65	380	65	60min
4.	2.000	0.21375		200	0.00	65	200	65	290	65	60min
5.											

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 _{pv}	Rate of Flow Q, Mcfd
1	0.1410	0.00	596.2	0.9962	1.303	1.040	11
2	0.2648	0.00	528.2	0.9952	1.303	1.045	132
3	0.6082	0.00	293.2	0.9952	1.303	1.020	226
4	0.8393	0.00	213.2	0.9952	1.303	1.014	225
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1	.90	521	1.57	.925	0	
2	.80	525	1.57	.933	0	
3	.44	525	1.57	.962	0	
4	.32	525	1.57	.972	0	
5						

NO.	P _r ²	P _c ²	P _r ² - P _c ²	P _r ² / (P _r ² - P _c ²)	(1) $\frac{P_c^2}{P_r^2 - P_c^2} = 2.2029$	(2) $\left[\frac{P_r^2}{P_r^2 - P_c^2} \right]^n = 1.8190$
1	355	603.2	364	43		
2	279	533.2	284	123		
3	86	393.2	155	252		
4	45	213.2	88	15		
5						

Absolute Open Flow	312	Mcf @ 15.025	Angle of Slope	63.5	Stress	500
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Remarks: Started making water on 4th rate

Approved By Commission	Conducted By Bennett & Gathay	Calculated By Richard Townley	Checked By
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Post ID-2
5-8-87
Comp + BK