

NEW MEXICO RECEIVED BY STATE COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

APR 27 1987

RECEIVED MAR 19 1987

O. C. D.

ARTESIA, OFFICE

Type Test 4 point ☒ Initial ☐ Annual		Test Date 3-12-87	
Company McKay Oil Corp.		Connection to air	
Well Pecos Slope Abo		Formation Abo	
Completion Date 3-9-87		Total Depth 3529	
Elevation 3458		Elevation 4202	
Casing Size 4.5		Casing Weight 9.5	
Casing Depth 4.090		Casing Weight 3519	
Tubing Size 2.375		Tubing Weight 4.7	
Tubing Depth 1.995		Tubing Weight 3060	
Type Well - Single - Proven - G.G. or G.O. Multiple Single		Factor Set At none	
Producing thru Tubing		Reservoir Temp. °F 102 @ 3251	
Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
L 3251		H 3251	
G _g .587		% CO ₂ .128	
% H ₂ 6.441		% H ₂ S 0	
Previous 2.000		Meter Run 0	
State New Mexico		County Chaves	
City Abo		Well No. 6	
Unit P		Size 6S	
Depth 6S		Type 23E	

FLOW DATA						TUBING DATA		CANNING DATA		Direction of Flow
NO.	Flow Line Size	X	Casing Size	Temp. °F	Pressure, psig	Temp. °F	Pressure, psig	Temp. °F		
1	2.00	.125	550	56	821	56	821	56	72hrs	
2	2.00	.1875	416	57	550	56	667	56	60min	
3	2.00	.21875	275	57	416	57	502	57	60min	
4	2.00	.250	192	57	275	57	369	57	60min	
5					192	57	285	57	60min	

APPROX. FLOW CORRELATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_{m1}}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super. Comp. Factor, F _{sp}	Rate of Flow Q, MCFD
1	.2648	0.00	563.2	1.004	1.305	1.041	203
2	.6082	0.00	429.2	1.003	1.305	1.032	353
3	.8393	0.00	285.2	1.003	1.305	1.022	461
4	1.0870	0.00	205.2	1.003	1.305	1.015	596
5							

NO.	P ₁	Temp. °F	T ₁	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	.85	516	1.53	.922	0	0	.587	X X X X X	661	337
2	.65	517	1.53	.939			X X X X X			
3	.44	517	1.53	.958						
4	.31	517	1.53	.970						
5										

NO.	P ₁	P ₂	P ₃	P ₄	P ₅
1	834.2	696			
2	317	680.2	405	233	
3	184	515.2	265	101	
4	83	382.2	166	50	
5	42	298.2	88	607	

(1) $\frac{P_2^2}{P_1^2 - P_2^2} = 1.6148$ (2) $\left[\frac{P_2^2}{P_1^2 - P_2^2} \right]^n = 1.2708$

(3) $\left[\frac{P_2^2}{P_1^2 - P_2^2} \right]^n = 188.6$

Post ID-2
5-8-87
comp + BK

Abstract: Started making water in and flow rate (unable to measure)

Approved By: [Signature] Checked By: [Signature]