

FILE

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED

Type Test 4 PT ☐ Initial ☐ Annual ☐ Special				Test Date DEC 20 '88			
Company MCKAY OIL CORP.				Connection TO AIR			
Well PECOS SLOPE <i>abo</i>				Formation ABO			
Completion Date 5-12-87		Total Depth 3950		Plug Back TD 3396		Elevation 4125	
Csg. Size 4.5		Wt. 11.6		Set At 3449		Perforations From 2904 To 3381	
Tub. Size 2.375		Wt. 4.7		Set At 2874		Perforations From OPEN To ENDED	
Type Well - Single - Drifted - G.G. or G.O. Multiple SINGLE				Packer Set At NONE		County CHAVES	
Producing Thru TUBING		Reservoir Temp. °F 101 3143		Mean Annual Temp. °F 60		State NEW MEXICO	
L 3143		H 3143		G _g .6129		Prover 2.000	
				% CO ₂ 0.00		% H ₂ 3.564	
				% H ₂ S 0		Meter Run 0	
						Taps 0	
FLOW DATA				TUBING DATA		CASING DATA	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. in. H ₂ O	Temp. °F	Duration of Flow
1.	2.000	.21875	885	0.00	60	885	60 MIN
2.	2.000	.250	853	0.00	58	853	60 MIN
3.	2.000	.3125	797	0.00	58	797	60 MIN
4.	2.000	.375	722	0.00	54	722	60 MIN
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 _{sp}	Rate of Flow Q, Mcfd
1.	.8393	0.00	898.2	1.000	1.277	1.075	1035
2.	1.087	0.00	866.2	1.002	1.277	1.073	1290
3.	1.672	0.00	810.2	1.002	1.277	1.068	1851
4.	2.378	0.00	735.2	1.006	1.277	1.065	2392
5.							
NO.	P ₁	Temp. °R	T ₁	Z	Gas Liquid Hydrocarbon Ratio 0 Mcf/bbl.		
1.	1.35	520	1.48	.865	A.P.L. Gravity of Liquid Hydrocarbons 0 Deg.		
2.	1.30	518	1.48	.869	Specific Gravity Separator Gas .6129		
3.	1.22	518	1.48	.876	Specific Gravity Flowing Fluid X X X X X		
4.	1.11	514	1.46	.881	Critical Pressure 664 P.S.I.A.		
5.					Critical Temperature 351 °R		
P _c 940.2 P _w 884					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.9466$		
					(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.1010$		
NO.	P ₁	P _w	P _c	P _c ² - P _w ²	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 5025.6$		
1.		903.2	816	68			
2.		873.2	762	122			
3.		825.2	681	203			
4.		764.2	684	300			
5.							
Absolute Open Flow 5026 Mcfd @ 15.025				Angle of Slope 55.5		Slope, n .687	
Remarks:							
Approved By Division		Conducted By:		Calculated By:		Checked By:	