

45P
File

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 4/28/87		RECEIVED BY JUL 15 1987 C. C. D. ADRESIA, OFFICE			
Company McClellan Oil Corp.				Connection Air					
Pool Pecos Slope <i>Adresia</i>				Formation Abu					
Completion Date 4/17/87		Total Depth 4710'		Plug Back TD 4658'		Elevation 3789' G.L.		Farm or Lease Name Penjack Fed.	
Csg. Size 4 1/2"	Wt. 9.5	Set At 4658'	Perforations: From 4381' To 4421'		Well No. 2				
Tbg. Size 2-3/8"	Wt. 4.7	Set At 4361'	Perforations: From To		Unit # 12		Sec. 10S	Twp. 25E	Range
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single				Packer Set At None		County Chaves			
Producing Thru Tubing		Reservoir Temp. °F 101 @ 4400		Mean Annual Temp. °F 60		Buro. Press. - P _g 15.025		State NM	
L	H	G _g .647	% CO ₂ .03	% N ₂ 4.12	% H ₂ S	Prover 2"	Meter Run -	Taps -	

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
SI							979.7	57	979.7	57	
1.	2	X	.375		-		781.9	63	835.4	63	1/4 hour
2.	2	X	.375		-		693.8	74	746.1	74	1
3.	2	X	.375		-		647.3	66	704.1	66	2
4.	2	X	.375		-		388.3	69	459.3	69	24.75
5.	2	X	.375		-		386.8	69	458.6	69	25.50

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w}^3 m$	Pressure P _m	Flow Temp. Factor Fl.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	2.378	-		.9971	1.243	1.073	2520
2	2.378	-		.9868	1.243	1.060	2191
3	2.378	-		.9943	1.243	1.059	2060
4	2.378	-		.9915	1.243	1.035	1223
5	2.378	-		.9915	1.243	1.035	1218

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/Lbl.	
1.	361	1.45	.869		A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.	
2.	361	1.48	.890		Specific Gravity Separator Gas _____ X X X X X X X X	
3.	361	1.46	.892		Specific Gravity Flowing Fluid _____ X X X X X	
4.	361	1.47	.933		Critical Pressure _____ P.S.I.A. _____ P.S.I.A.	
5.	361	1.47	.933		Critical Temperature _____ R _____ R	

NO.	P _i ²	P _w ²	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.69$ AOR = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1600$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.69$ RECEIVED BY JUL 17 1987 O. C. D. ADRESIA, OFFICE
1		796	592	266		
2		708	502	410		
3		662	438	472		
4		403	162	764		
5		401	161	765		

Absolute Open Flow 1600 Mcfd @ 15.025 Angle of Slope @ 45

Remarks: _____

Approved by Division _____ Conducted by _____ Calculated by _____ Checked by _____