

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 7-10-81		JUL 16 1981	
Company Adams Exploration Company				Connection El Paso Natural Gas Co.			
Pool Wildcat <i>Wolfcamp</i>				Formation Wolfcamp		Unit	
Completion Date 12-18-80		Total Depth 12,262'		Plug Back TD 12,225'		Elevation 3056' GR	
Farm or Lease Name SRC State		Well No. 1-Y					
Csq. Size 5"	Wt. 18#	d 4.276"	Set At 12,262'	Perforations: From 11,105' To 12,158'			
Thq. Size 2 3/8"	Wt. 4.7#	d 1,995"	Set At 11,080	Perforations: From 11,105' To 12,158'		Unit Sec. Twp. Rge. 0 16 26-S 30-E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 11,080'		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 185 #		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2 psia	
State New Mexico							
L 11,632'	H 11,632'	G _a 0.673	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run 4"
						Taps Flange	
FLOW DATA				TUBING DATA		CASING DATA	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.
SI	4"		1.5"				Temp. °F
1.	4"		1.5"	745	11.0	72	745
2.	4"		1.5"	640	24.5	72	640
3.	4"		1.5"	590	34.0	71	590
4.	4"		1.5"	395	76.0	71	395
5.							
RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	10.88	9.132	758.2	0.9887	1.219	1.060	1,269
2	10.88	126.50	653.2	0.9887	1.219	1.051	1,743
3	10.88	143.21	603.2	0.9896	1.219	1.049	1,972
4	10.88	176.13	408.2	0.9896	1.219	1.032	2,386
5							
NO.	P _i	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ 82 _____ Mcf/bbl.		
1	1,135	532	1.50	0.890	A.P.I. Gravity of Liquid Hydrocarbons _____ 50 _____ Deg.		
2	0.978	532	1.50	0.905	Specific Gravity Separator Gas _____ 0.673 _____		
3	0.903	531	1.49	0.909	Specific Gravity Flowing Fluid _____ X X X X X _____		
4	0.610	531	1.49	0.939	Critical Pressure _____ 668 _____ P.S.I.A.		
5					Critical Temperature _____ 355 _____ R		
P _c 1063.2 P _c ² 1130.4							
NO.	P _i	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.173$		
1		758.2	574.9	555.5	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.173$		
2		653.2	426.7	703.7			
3		603.2	369.9	760.5			
4		408.2	166.6	963.8			
5							
Absolute Open Flow _____ 2,798 _____ Mcfd @ 15.025					Angle of Slope @ _____ 45°		Slope, n _____ 1.00
Remarks:							
Approved By Division		Conducted By: <i>Roy K. Valla</i> Roy K. Valla		Calculated By: Roy K. Valla		Checked By:	