

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 1-24-83									
Company BILLY J. KNUTT		Connection									
Pool Blanco Mesaverde		Formation Mesaverde									
Completion Date 1-14-83	Total Depth 5612	Plug Back TD 5559	Elevation 6403 KB								
Farm or Lease Name Kelly		Well No. 1A									
Csg. Size 7" Wt. 20# 4 1/2" Liner 10.5#	Set AG 316' (3160 to 5610')	Perforations: From 5107 To 5503	Unit 0								
Thq. Size Wt. 2 3/8" 4.7#	Set At 5481'	Perforations: From To	Soc. Twp. Rge. 8 - 30N-10W								
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At	County San Juan								
Producing Thru Tubing	Reservoir Temp. °F 8	Mean Annual Temp. °F	State New Mexico								
L	H	Gg 0.6500	% CO ₂ % N ₂ % H ₂ S Prover 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. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI	7 days										
1.	2" x 0.750						592	60	910	60	
2.							312	60	737	60	8 hrs.
3.											
4.											
5.											
RATE OF FLOW CALCULATIONS											
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd				
1	9.453		324	1.000	1.240	1.035	3,931				
2.											
3.											
4.											
5.											
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl. A.P.I. Gravity of Liquid Hydrocarbons _____ Deg. Specific Gravity Separator Gas _____ Specific Gravity Flowing Fluid _____ Critical Pressure _____ P.S.I.A. Critical Temperature _____ R						
1					FEB 8 - 1983 OIL CON. DIV. DIST. 3						
2.											
3.											
4.											
5.											
NO.	P _r ²	P _w ²	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 2.9406$ (2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 2.2406$						
1		749	561,601	289,083							
2											
3											
4											
5											
AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 8,827$											
Absolute Open Flow 8,827 Mcfd @ 15.025					Angle of Slope @		Slope, n 0.75				
Remarks:											
Approved By Division		Conducted By Delta Oilfield Ser		Calculated By A.B. Geren, Jr.		Checked By					