

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED
MAR 02 1984
OIL CON. DIV.
DIST. 3

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 2-25-84					
Company Dugan Production Corp.						Connection					
Pool 100						Formation Pictured Cliffs					
Completion Date 8-19-83			Total Depth 1690'			Plug Back TD 1300'			Elevation 6682 G.L.		
Csg. Size 2-7/8"			Wt. 6.5#			d 2.441			Set At 1690'		
Perforations: From 965			To 970			Well No. 1					
Tbg. Size 1-1/4"			Wt. 2.3#			d 1.380			Set At 965		
Perforations: From open end			To			Unit M			Sec. 12		
Twp. 23N			Range 10W			Farm or Lease Name Witty					
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas						Packer Set At			County San Juan		
Producing Thru tubing			Reservoir Temp. °F P			Mean Annual Temp. °F			Baro. Press. - P _a		
State New Mexico											
L		H		G _g .62		% 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. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI							163		185		7 days
1.											
2.											
3.	7/16" Pos. Choke		4			60°			23		3 hrs.
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											
2											
3	4.1712		16	1.000	.9837	1.000	66				
4											
5											
NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.						
					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.						
1					Specific Gravity Separator Gas _____ X X X X X X X X						
2					Specific Gravity Flowing Fluid _____ X X X X X						
3					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.						
4					Critical Temperature _____ R _____ R						
5											
$P_c = 197$ $P_c^2 = 38,809$											
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0326$ $(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^{.85} = 1.0276$						
1											
2											
3		35	1225	37,584	$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 68$						
4											
5											
Absolute Open Flow _____ Mcfd @ 15.025					Angle of Slope θ _____			Slope, n _____			
Remarks: _____											
Approved By Division				Conducted By: Jacobs				Calculated By: Jacobs			
Checked By:											