

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 08-11-89		RECEIVED	
Company TEXACO INC.			Connection Not connected			AUG 21 1989		
Pool So. Blanco			Formation Pictured Cliff			OIL CONSERVATION DIV, SANTA FE		
Completion Date 08-03-89		Total Depth 8180'		Plug Back TD 5841'		Elevation 7152'		Farm or Lease Name C.W. Roberts
Csq. Size 5.500	Wt. 17.0	d 4.892	Set At 8178	Perforations: From 3618 To 3640		Well No. #3		
Trq. Size	Wt.	d	Set At	Perforations: From To		Unit 0	Sec. 18	Twp. 25N
Type Well - Single - Brodenhead - G.C. or G.O. Multiple Gas & Gas Multiple					Packer Set At 3696' KB		County Rio Arriba	
Producing Thru Casing		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico
L 3618	H 3618	G _g .670	% CO ₂	% N ₂	% H ₂ S	Prover 2.000	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. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI	168 hrs.								768		
1.	2.000 x .750							60°	82	60°	1st hr.
2.	2.000 x .750							60°	66	60°	2nd hr.
3.	2.000 x .750							60°	58	60°	3rd hr.
4.											
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 _{pv}	Rate of Flow Q, Mcfd
1	11.000		94	1.000	1.222	1.010	1276
2	11.000		78	1.000	1.222	1.000	1048
3	11.000		70	1.000	1.222	1.000	941
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
1					Specific Gravity Separator Gas _____	XXXXXX
2					Specific Gravity Flowing Fluid _____	XXXXX
3					Critical Pressure _____ P.S.I.A.	_____ P.S.I.A.
4					Critical Temperature _____ R	_____ R
5						

P _c 780 P _c ² 608400				
NO.	P _t	P _w	P _w ²	P _c ² - P _w ²
1	4900	76	5776	602624
2				
3				
4				
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{608400}{602624}$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0096$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.008$$

Absolute Open Flow 949 Mcfd @ 15.025		Angle of Slope θ _____	Slope, n .85
Remarks: (9W) Taken from Spang handbook. Well flowed, no fluid, no sand.			

Approved by Division	Conducted By: Paul Berhost	Calculated By: Paul Berhost	Checked By: <i>Alan A. Kleier</i>
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