

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 9/2/88	
Company Union Texas Petroleum Corp.		Connection Gas Co. of New Mexico	
Pool Blanco Wildhorse & Basin		Formation Mesaverde, Gallup & Dakota	
Completion Date 8/22/88		Total Depth 7690	Plug Back TD 7675
Elevation 6682' GL		Form or Lease Name Jicarilla "H"	
Perforations: From 4938 To 7559	Well No. 13		
Perforations: From Open Ended To	Unit Sec. Twp. Rge. C 20 26N 4W		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Multiple-Gas & Oil		Packer Set At	
Producing Thru		Reservoir Temp. °F 8	Mean Annual Temp. °F 12
Baro. Press. - P _a 12		State New Mexico	
L	H	G _g 0.680	% 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	2"		3/4"				631		616		7 Days
1.							73	66°	546	66°	3 Hours
2.											
3.											
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	12.3650		85	0.9943	0.9393	1.011	992
2.							
3.							
4.							
5.							

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

P _c 643 P _c ² 413,449	
NO.	P _t ² P _w ² R _e ² P _c ² - R _e ²
1	558 311.364 102.085
2	
3	
4	
5	

(1) $\frac{P_c^2}{R_e^2 - R_w^2} = 4.0500$

AOF = Q $\left[\frac{R_e^2}{R_e^2 - R_w^2} \right]^n = 2832$

(2) $\left[\frac{R_e^2}{R_e^2 - R_w^2} \right]^n = 2.8549$

Absolute Open Flow 2832	Mcfd @ 15.025	Angle of Slope @	Slope, n 0.75
-------------------------	---------------	------------------	---------------

Remarks: Very wet 90% water 10% oil.

Approved By Division	Conducted By: Steve Greenwood	Calculated By: John C. Rector	Checked By:
----------------------	----------------------------------	----------------------------------	-------------