

NEW MEXICO OIL CONSERVATION COMMISSION  
 MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form O-122  
 Revised 7-1-65

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special		Test Date 10-25-78	
Company Southland Royalty Company		Connection Southern Union Gathering	
Pool Blanco		Formation Pictured Cliffs	
Unit Grenier "A"		Farm or Lease Name Grenier "A"	
Completion Date 10-11-78		Total Depth 5337'	
Fluid Back TD 5335'		Elevation 6151' GR	
Cr. Size 7.000	Wt. 20#	d 6.456	Set At 3034'
4.500	10.5#	4.052	2874-5336
Perforations: From 2749' To 2803'		Well No. 1A	
Tng. Size 1.660	Wt. 2.33#	d 1.380	Set At 2763
Perforations: From - To -		Unit    Sec.    Twp.    Rge. C    26    30N    10W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple GG - Multiple		Packer Set At	
Producing Thru Tubing		Reservoir Temp. °F @	
Mean Annual Temp. °F		Baro. Press. - P <sub>g</sub> 12.2	
State New Mexico		County San Juan	
L	H	G <sub>g</sub> .700	% CO <sub>2</sub>
		% N <sub>2</sub>	% H <sub>2</sub> 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 <sub>w</sub>	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
Si							844		843	
1.	2" x 3/4"						80		358	1 hr.
2.							57		250	2 hrs.
3.							47		216	3 hrs.
4.										
5.										

  

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P <sub>m</sub>	Flow Temp. Factor Ft.	Gravity Factor F <sub>g</sub>	Super Compress. Factor, F <sub>pv</sub>	Rate of Flow Q, Mcfd
1	12.365		59.2	1.0000	.9258	1.0000	678
2							
3							
4							
5							

  

NO.	P <sub>c</sub>	Temp. °R	T <sub>r</sub>	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/cu ft.
1					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2					Specific Gravity Separator Gas _____
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 <sub>c</sub> 8562	P <sub>c</sub> <sup>2</sup> 733078				
NO.	P <sub>w</sub>	P <sub>w</sub> <sup>2</sup>	P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0765$	(2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0646$
1	228.2	52075	681003		
2					
3					
4					
5					

  

Actual Gas Flow	722	Mcfd @ 15.0 PS	Slope of Slope =	Slope, n = .85
-----------------	-----	----------------	------------------	----------------

  

Remarks:

  

Approved By Commission:	Conducted By: Abe Saiz	Calculated By: James Smith	Checked By:
-------------------------	---------------------------	-------------------------------	-------------