

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

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 7/23/80	
Company Hill & Llewellyn		Connection	
Pool Ballard		Formation Pictured Cliffs	
Completion Date		Total Depth 2400'	Plug Back TD 2396
Casing Size 2.875		Wt. 6.50	Set At 2396
Perforations: From 2167 To 2239		Elevation	
Thg. Size None		Set At	Perforations: From To
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single		Packer Set At	
Producing Thru Casing		Reservoir Temp. °F 6	Mean Annual Temp. °F
L H		Gg .650 est	% CO ₂ % N ₂ % H ₂ S
Prover		Meter Run	Taps
Form or Lease Name Hodges			
Well No. 1-Y			
Unit Sec. Twp. Rge. E-21-26N-8W			
County San Juan			
State New Mexico			

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	
1.			.750	51		62			653		7 days
2.											3 Hrs.
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.	12.365		63	.9981	.9608	1.000	747
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.										
2.										
3.										
4.										
5.										

P _r 665 P _c ² 442225		(1) $\frac{P_c^2}{P_r^2 - P_w^2} = 1.0129$		(2) $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 1.0110$	
NO.	P _r	P _w	P _r ²	P _r ² - P _w ²	
1	3969	75	5637	436588	
2					
3					
4					
5					

Absolute Open Flow 755		Mcf @ 15.025		Angle of Slope @		Slope, n .85	
Remarks:							

Approved By Commission	Conducted By CRW	Calculated By <i>W. K. ...</i>	Checked By
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Pool Ballard		Formation Pictured Cliffs	
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Csg. Size 2.875		Wt. 6.50	Set At 2.441
Thq. Size None		Wt. d	Set At 2396
Perforations: From 2167 To 2239		Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At	
Producing Thru Casing		Reservoir Temp. °F p	Mean Annual Temp. °F
L H		Gg .650 est	% CO ₂ % H ₂ % H ₂ S
Prover		Meter Run Taps	
Farm or Lease Name Hodges		Well No. 1-Y	
Unit Soc. Twp. Rge. E-21-26N-8W		County San Juan	
State New Mexico		State New Mexico	

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
1.			.750	51		62			653		7 days
2.											3 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, Mhd
1.	12.365		63	.9981	.9608	1.000	747
2.							
3.							
4.							
5.							

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

P _c 665 P _c ² 442225			
NO.	P _f	P _w	P _f ² - P _w ²
1	3969	75	5637
2			
3			
4			
5			

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0129$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 755$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0110$$

Absolute Open Flow	755	Mhd @ 15.025	Angle of Slope @	Slope, n .85
Remarks				

Approved by Commission	Conducted By CRW	Calculated By <i>W. K. Riehl</i>	Checked By
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