

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

Form C-122
 Revised 9-1-65

File

RECEIVED
 SEP 29 1966
 OIL CON. COM.
 DIST. 3

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 9/16/66	
Company Artec Oil and Gas		Connection Southern Union Gathering	
Pool Basin Dakota		Formation Dakota	
Completion Date 9/9/66		Total Depth 7140	Plug Back TD 7110
		Elevation 5999'	Farm or Lease Name Culpepper Martin
Csg. Size 4 1/2"	Wt. 11.6 & 10.5	d 4.000	Set At 7140
Perforations: From 6960 To 7056		Well No. 4	
Tbg. Size 1 1/2"	Wt. 2.75	d 1.610	Set At 6850
Perforations: From 6855 To open ended		Unit Sec. Twp. Rge. M 28 32N 12W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple OG Dual		Packer Set At 6850	County San Juan
Producing Thru	Reservoir Temp. °F @	Mean Annual Temp. °F	Baro. Press. - P _a New Mexico
L .294	H	G _g .700 (est.)	% 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"		7 day SI		1809				
1.							149	60 (est.)			3 hr
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	12.365		161	1.000	.9258	1.020	1880
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	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 **1821** P_c^2 **3,316,041** P_w^2 **554** P_w^2 **307,453**

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \underline{\underline{1.102}}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{\underline{1.0755}}$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{\underline{2022}}$

Absolute Open Flow 2022 Mcfd @ 15.025	Angle of Slope θ _____	Slope, n .75
Remarks: _____		
Approved By Commission: _____	Conducted By: _____	Calculated By: _____
		Checked By: _____

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

Form C-122
Revised 9-1-65

RECEIVED

SEP 29 1966

OIL CON. COM.
DIST. 3

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 9/22/66	
Company Astee Oil and Gas			Connection Southern Union Gathering		
Pool Blanco Mesaverde			Formation Mesaverde		Unit
Completion Date 9/10/66		Total Depth 7140	Plug Back TD 7110		Elevation 5999 M
Farm or Lease Name Culpepper Martin					
Csg. Size 4 1/2	Wt. 11.6 & 10.5	d 4.000	Set At 7140	Perforations: From 4724 To 4848	
Well No. 4					
Tbg. Size 1 1/2	Wt. 2.75	d 1.610	Set At 6850	Perforations: From 6855 To open ended	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple OG Dual g				Packer Set At 6850	
Producing Thru casing				County San Juan	
Reservoir Temp. °F @				State New Mexico	
L 3307	H	Gg	% 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"		14 day SH				744		
1.									302	60 (est)	3 hr
2.											
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, Mcfd
1	12.365	40.4		1.000	.9258	1.051	4861
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	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 756	P _c ² 571,536	
NO.	P _c ²	P _w ²
1		
2		
3		
4		
5		

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \underline{1.419}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{1.30}$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{6319}$

Absolute Open Flow 6319 Mcfd @ 15.025	Angle of Slope θ _____	Slope, n .75
Remarks: _____		
Approved By Commission:	Conducted By:	Calculated By <i>Original Signed By</i> Gari E. Jamison
		Checked By: