

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

Copy 6.515
Form 6-72
Revised 8-1-65
C-122

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 12-5-75		DEC 10 1975	
Company Yates Petroleum Corp.			Connection Transwestern Pipeline Co.				
Pool Kennedy Farms)			Formation Morrow			Unit ARTESIA, OFFICE	
Completion Date 4-19-75		Total Depth 8807'		Plug Back TD 8625'		Elevation 3320' GR	
Farm or Lease Name Berry "EE" Com		Well No. 1					
Csg. Size 4 1/2"	Wt. 11.6	d 4.000	Set At 8648'	Perforations: From 8530- To 8551			
Tbg. Size 2-3/8"	Wt. 4.6	d 1.995	Set At 8503	Perforations: From To		Unit Sec. Twp. Rge. M 23 17S 26E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 8500		County Eddy	
Producing Thru Tbg		Reservoir Temp. °F 140		Mean Annual Temp. °F 62		Baro. Press. - P _a 13.2	
State New Mexico							
L	H 8540	Cq 0.621	% CO ₂ 0.74	% N ₂ 0.38	% H ₂ S -	Prover	Meter Run Taps Flange

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	of Flow
SI							1966				24 hrs.
1.	2		1.000	485	2	74	1833	59			1 hr.
2.				500	6	88	1748	61			1 hr.
3.				500	12	90	1630	70			1 hr.
4.				505	36	88	1507	72			1 hr.
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	4.946	31.565	498.2	.9863	1.269	1.0426	204
2.		55.491	513.2	.9741	1.269	1.0398	353
3.		78.475	513.2	.9723	1.269	1.0392	498
4.		156.564	516.2	.9741	1.269	1.0398	868
5.							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.	.74	534	1.469	.920	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.	.76	548	1.508	.925	Specific Gravity Separator Gas 0.621 XXXXXXXXX
3.	.76	550	1.513	.926	Specific Gravity Flowing Fluid XXXXXX
4.	.77	548	1.508	.925	Critical Pressure 673.6 P.S.I.A. P.S.I.A.
5.					Critical Temperature 363.4 R R

P _c 2688.2 P _c ² 7226				
NO.	P _t	P _w	P _w ²	P _c ² - P _w ²
1		2535.2	6427	799
2		2413.2	5824	1402
3		2286.2	5227	1999
4		1979.2	3917	3309
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 9.044$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1845$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 9.044$

Absolute Open Flow 1845 Mcfd @ 15.025		Angle of Slope θ _____	Slope, n 1.000
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Remarks: BHP's by Bennett Wireline - Test witnessed by Transwestern Pipeline Co.

Approved By Commission:	Conducted By: Don Weaver	Calculated By: Eddie M. Mahfood	Checked By:
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