STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

RECEIVED
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O. C. D.
ARTESIA, OFFICE

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [X] Initial [ ] Annual [ ] Special					Test Date: 11-12-81				
Company: Yates Petroleum Corporation				Connection: Transwestern Pipeline Company					
Pool: Undesignated Abo				Formation: Abo				Unit: ~~Fee Lease~~	
Completion Date: 7-30-81		Total Depth: 4808'		Plug Back TD: 4675'		Elevation: 3713' KB 3706' GR		Farm or Lease Name: Kitchens PH	
Csg. Size: 4-1/2"	Wt.: 9.5#	d: 4.090"	Set At: 4707'	Perforations: From 4067'	To 4415'			Well No.: 1	
Tbg. Size: 2-3/8"	Wt.: 4.7#	d: 1.995"	Set At: 4350'	Perforations: From –	To –			Unit: K	Sec.: 6	Twp.: 9S	Rge.: 26E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single				Packer Set At: None				County: Chaves	
Producing Thru: Tubing	Reservoir Temp. °F: 99 @ 4443		Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2				State: New Mexico	
L: 4350'	H: 4350'	Gg: 0.646	% CO_2: 0.95	% N_2: 5.61	% H_2S: 0	Prover: --	Meter Run: 2"	Taps: Flange	

FLOW DATA					TUBING DATA		CASING DATA		
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	Duration of Flow
SI					770				days
1.	2.067 x 0.500	260	3.6"	58	572	62			24 hrs
2.	2.067 x 0.500	260	5.3"	58	500	62			24 hrs
3.	2.067 x 0.500	260	8"	58	370	62			24 hrs
4.	2.067 x 0.500	260	10"	58	250	62			24 hrs
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	1.189	31.36	273.2	1.002	1.244	1.025	48
2	1.189	38.05	273.2	1.002	1.244	1.025	58
3	1.189	46.75	273.2	1.002	1.244	1.025	71
4	1.189	52.27	273.2	1.002	1.244	1.025	79
5							

NO.	P_t	Temp. °R	T_r	Z
1	0.411	518	1.451	0.952
2	0.411	518	1.451	0.952
3	0.411	518	1.451	0.952
4	0.411	518	1.451	0.952
5				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas 0.646 xxxxxxxxx
Specific Gravity Flowing Fluid xxxxx
Critical Pressure 664 P.S.I.A. _____ P.S.I.A.
Critical Temperature 357 R _____ R

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	342.5		342.5	420
2	263.4		263.5	499
3	146.8		146.9	615.6
4	69.3		69.4	693.1
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.3864$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.3846$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 86$

Absolute Open Flow 86 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n 0.996

Remarks: Static and flowing pressures by DWT calculations.
Worksheet C122D attached.

Approved By Division	Conducted By: David Weaver	Calculated By: Albert R. Stall	Checked By: