

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

Form C-122

RECEIVED

Type Test [X] Initial [] Annual [] Special				Test Date 8/30/88		JUL 07 '89	
Company Yates Petroleum Corporation				Connection Transwestern Pipeline Company			
Pool Collins Ranch <i>WOLF CAMP</i>				Formation Wolfcamp		Unit O.C.D.	
Completion Date 6/22/88		Total Depth 8300.0'		Plug Back TD 5000.0'		Elevation 3751.1'	
Farm or Lease Name Richard Knob AEX <i>ST.</i>				Well No. 1			
Csg Size 5.500"	Wt. 14.000#	d 5.012"	Set At 8300.0'	Perforations: From 4913.0' To 4980.0'		Unit Sec Twp Rge G 34 17S 24E	
Tbg Size 2.875"	Wt. 6.500#	d 2.441"	Set At 4809.0'	Perforations: From 0.0' To 0.0'		County Eddy	
Type Well Single				Facker Set At 4809.0'		State New Mexico	
Producing Thru Tubing		Resv. Temp. °F 115 @ 4880'		Mean Temp. °F 62.0		Earo. Press. - Pa 13.2 psia.	
L 4809.0'	H 4809.0'	Gg .650	%CO2 0.00	%N2 1.10	%H2S 0.00	Prover 0.000"	Meter Run 2.000"
						Taps Flange	

4809.0'	4809.0'	1.650	8.00	1.10	0.00	0.000				
FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
NO	Prover Size	Orifice X Size	Press. psig	Diff. hw	Temp. °F	Press. psig	Temp. °F	Press. psig	Temp. °F	
SI	0.000	X 0.000	0	0.0	94	1510	0	0	0	0 hrs.
1.	4.026	X 2.000	240	34.0	94	1230	62	0	0	24 hrs.
2.	4.026	X 2.000	240	40.8	93	1179	62	0	0	24 hrs.
3.	4.026	X 2.000	230	48.2	95	1116	62	0	0	24 hrs.
4.	4.026	X 2.000	220	62.9	94	1083	62	0	0	24 hrs.
5.	0.000	X 0.000	0	0.0	0	0	0	0	0	0 hrs.

RATE OF FLOW CALCULATIONS

NO	Coefficient (24 HOUR)	1/hwPm	Pressure Pm	Flow Temp Factor Ft.	Gravity Factor Fg	Super Compress. Fact. Fpv	Rate of Flow Q, Mcfd
1.	19.806	92.78	253.20	.969	1.240	1.019	2249
2.	19.806	101.64	253.20	.970	1.240	1.019	2466
3.	19.806	108.27	243.20	.968	1.240	1.018	2620
4.	19.806	121.11	233.20	.969	1.240	1.017	2931
5.	0.000	0.00	0.00	0.000	0.000	0.000	0

NO	Pr	Temp. °R	Tr	Z	Gas Liquid Hydrocarbon Ratio	Dry	Mcf/bbl.
1.	.38	554	1.50	.964	A.P.I. Gravity of Liquid Hydrocarbons	0.000	Deg.
2.	.38	553	1.50	.964	Specific Gravity Separator Gas	.650	xxxxxx
3.	.36	555	1.50	.966	Specific Gravity Flowing Fluid	xxxxxx	.650
4.	.35	554	1.50	.967	Critical Pressure	668.4	PSIA
5.	0.00	0	0.00	0.000	Critical Temperature	369.4°R	369.4°R

Pc 1523.2 Pc2 2320.1

NO	Pt2	Pw	Pw2	Pc2-Pw2	(1)	Pc2	=	2.1480	(2)	Pc2	=	1.7611
1.	1545.5	1253.5	1571.2	748.9								
2.	1421.3	1205.2	1452.4	867.7								
3.	1275.1	1144.8	1310.5	1009.6								
4.	1201.7	1116.4	1246.3	1073.9								
5.	0.0	0.0	0.0	0.0								

$$ROF = Q \left[\frac{Pc^2}{Pc^2 - Pw^2} \right]^n = 5162 \text{ Mcfd}$$

Absolute Open Flow 5162 Mcfd @ 15.025 Angle of Slope, 0 37 Slope, n .740
Remarks:

Approved By:	Conducted By: Ed Perry	Calculated By: Andrea Carpenter	Checked By:
--------------	---------------------------	------------------------------------	-------------