

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

Form C-122

c/sf
file

Type Test [x] Initial [] Annual [] Special				Test Date 11/4/89	
Company Yates Petroleum Corporation				Connection Transwestern Pipeline Company	
Pool Wolfcamp				Formation Undesignated	
Completion Date 11/1/89		Total Depth 8050.0'		Elevation 3374.0'	
Csg Size 4.500"		Wt. 9.500#		Set At 7960.0'	
Tbg Size 2.375"		Wt. 4.700#		Set At 5267.0'	
Perforations: From 5327.0' To 5370.0'		Perforations: From 0.0' To 0.0'		Farm or Lease Name Friendly Frenchman	
Packer Set At 5267.0'		County Eddy		Well No. HB #1	
Producing Thru Tubing		Resv. Temp. °F 152 @ 7780'		Mean Temp. °F 62.0	
Baro. Press. - Pa 13.2 psia.		State New Mexico		Unit Sec Twp Rge P 32 16S 26E	
L 5267.0'		H 5267.0'		Gg .640	
%CO2 .66		%N2 .88		%H2S 0.00	
Prover 0.000"		Meter Run 2.000"		Taps Flange	

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow
NO	Prover Orifice Size 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	55	1250	0	0	0	0 hrs.
1.	2.067 X .250	520	6.3	63	1100	62	0	0	24 hrs.
2.	2.067 X .250	530	10.1	64	1010	62	0	0	24 hrs.
3.	2.067 X .250	540	14.3	55	964	62	0	0	24 hrs.
4.	2.067 X .250	550	40.0	52	530	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)	√hwPm	Pressure Pm	Flow Temp Factor Ft.	Gravity Factor Fg	Super Compress. Fact. Fpv	Rate of Flow Q, Mcfd
1.	.299	57.96	533.20	.997	1.250	1.049	23
2.	.299	74.07	543.20	.996	1.250	1.050	29
3.	.299	88.94	553.20	1.005	1.250	1.054	35
4.	.299	150.09	563.20	1.008	1.250	1.056	60
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.	.79	523	1.43	.909	A.P.I. Gravity of Liquid Hydrocarbons	0.000	Deg.
2.	.81	524	1.43	.908	Specific Gravity Separator Gas	.640	xxxxxxxxxxxxxx
3.	.82	515	1.41	.900	Specific Gravity Flowing Fluid	xxxxxx	.640
4.	.84	512	1.40	.896	Critical Pressure	672.0 PSIA	672.0 PSIA
5.	0.00	0	0.00	0.000	Critical Temperature	365.6°R	365.6°R

Pc 1263.2		Pc2 1595.7	
NO	Pt2	Pw	Pw2
1.	1239.2	1113.2	1239.2
2.	1046.9	1023.2	1047.0
3.	954.9	977.2	954.9
4.	295.1	543.3	295.1
5.	0.0	0.0	0.0

$$(1) \frac{Pc2}{Pc2 - Pw2} = 1.2278 \quad (2) \left[\frac{Pc2}{Pc2 - Pw2} \right]^n = 1.1661$$

$$AOF = Q \left[\frac{Pc2}{Pc2 - Pw2} \right]^n = 70 \text{ Mcfd}$$

Absolute Open Flow 70 Mcfd @ 15.025 Angle of Slope, 0 37 Slope, n .749
Remarks:

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