

451
File

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 5/24/89		JUL 07 '89	
Company Yates Petroleum Corporation				Connection Transwestern Pipeline Company			
Pool East Burton Flat <i>MORROW</i>				Formation Morrow		Unit <i>O.C.D.</i> MORROW, OFFICE	
Completion Date 4/28/89		Total Depth 12280.0'		Plug Back TD 12208.0'		Elevation 3315.8'	
Farm or Lease Name Slinkard UR Fed <i>COM</i>		Well No. 3		Perforations: From 11800.0' To 11805.0'		Unit Sec Twp Rge L 12 20S 29E	
Csg Size 5.500"	Wt. 14.000#	d 5.012"	Set At 12280.0'	Perforations: From 0.0' To 0.0'		Type Well Single	
Tbg Size 2.875"	Wt. 6.500#	d 2.441"	Set At 11730.0'	Packer Set At 11737.0'		County Eddy	
Producing Thru Tubing		Resv. Temp. °F 177 @ 11803'		Mean Temp. °F 62.0		Baro. Press. - Pa 113.2 psia.	
L 11730.0'		H 11730.0'		Gg 1.048	%CO2 .37	%N2 .16	%H2S 0.00
Prover 0.000"		Meter Run 2.000"		Taps Flange			

NO	FLOW DATA			TUBING DATA		CASING DATA		Duration of Flow
	Prover Orifice Size X Size	Press. psig	Diff. hw	Temp. °F	Press. psig	Temp. °F	Press. psig	
SI	0.000 X 0.000	0	0.0	94	3050	0	0	0 hrs.
1.	2.067 X .625	415	9.6	92	2112	62	0	24 hrs.
2.	2.067 X .625	425	12.5	95	1869	62	0	24 hrs.
3.	2.067 X .625	430	13.6	94	1572	62	0	24 hrs.
4.	2.067 X .625	435	19.0	96	1220	62	0	24 hrs.
5.	0.000 X 0.000	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.	1.866	64.11	428.20	.971	.977	1.114	126
2.	1.866	74.01	438.20	.968	.977	1.114	146
3.	1.866	77.64	443.20	.969	.977	1.117	153
4.	1.866	92.28	448.20	.967	.977	1.117	182
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.	.65	552	1.10	.806	A.P.I. Gravity of Liquid Hydrocarbons	0.000	Deg.
2.	.67	555	1.10	.805	Specific Gravity Separator Gas	1.048	xxxxxxx
3.	.67	554	1.10	.801	Specific Gravity Flowing Fluid	xxxxx	1.048
4.	.68	556	1.11	.802	Critical Pressure	657.7	PSIA
5.	0.00	0	0.00	0.000	Critical Temperature	502.8	°R

NO	Pt ²	Pw	Pw ²	Pc ² -Pw ² (1)	Pc ² / (Pc ² -Pw ²)	(2) [Pc ² / (Pc ² -Pw ²)] ⁿ
1.	4516.5	2125.2	4516.6	4866.6	1.1947	1.1441
2.	3542.7	1882.3	3542.9	5840.3		
3.	2512.9	1585.3	2513.0	6870.1		
4.	1520.8	1233.3	1521.0	7862.2		
5.	0.0	0.0	0.0	0.0		

ROF = Q [Pc² / (Pc²-Pw²)]ⁿ = 208 Mcfd

Absolute Open Flow 208 Mcfd @ 15.025 Angle of Slope, θ 37 Slope, n .757
Remarks:

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