

45F 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 12/30/82		FEB 18 1983	
Company Yates Petroleum Corporation						Connection Transwestern Pipeline Company			
Pool Pecos Slope - Abo						Formation Abo		Unit O. C. D.	
Completion Date 5/14/82						Total Depth 4100.0'		Elevation 3930.5'	
Farm or Lease Name Smernoff "NL" State						Well No. 2			
Csg Size 4.500"		Wt. 9.500#		d 4.090"		Set Rt 4085.0'		Perforations: From 3569.0' To 3719.0'	
Tbg Size 2.375"		Wt. 4.700#		d 1.995"		Set Rt 3526.0'		Perforations: From 3.0' To 0.0'	
Type Well Single						Packer Set Rt 3526.0'		County Chaves	
Producing Thru Tubing		Resv. Temp. °F 107 @ 3523'		Mean Temp. °F 62.0		Baro. Press. - Pa 13.2 psia.		State New Mexico	
L 3526.0'		H 3526.0'		Gg .637		%O2 .06		%N2 6.12	
						%H2S 0.00		Proven 0.000"	
								Meter Run 2.000"	
								Taps Flange	

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow
NO	Proven Size	Orifice X Size	Press. psig	Diff. hw	Temp. °F	Press. psig	Temp. °F	Press. psig	
SI	0.000	X 0.000	0	0.0	45	1008	0	0	0
1.	2.067	X 1.125	140	51.0	40	835	62	0	0
2.	2.067	X 1.125	140	62.9	45	813	62	0	0
3.	2.067	X 1.125	140	65.5	45	780	62	0	0
4.	2.067	X 1.125	140	83.5	45	760	62	0	0
5.	0.000	X 0.000	0	0.0	0	0	0	0	0

RATE OF FLOW CALCULATIONS							
NO	Coefficient (24 HOUR)	1/hwFm	Pressure Pm	Flow Temp Factor Ft.	Gravity Factor Fg	Super Compress. Fact. Fpv	Rate of Flow Q, Mcfd
1.	6.397	88.39	153.20	1.020	1.253	1.013	732
2.	6.397	98.16	153.20	1.015	1.253	1.013	808
3.	6.397	100.17	153.20	1.015	1.253	1.013	825
4.	6.397	113.10	153.20	1.015	1.253	1.013	931
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.	A.P.I. Gravity of Liquid Hydrocarbons Deg.	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure PSIA	Critical Temperature °R
1.	.23	500	1.42	.974		0.000			660.7	351.0
2.	.23	505	1.44	.975						
3.	.23	505	1.44	.975						
4.	.23	505	1.44	.975						
5.	0.00	0	0.00	0.000						

Pc 1021.2 Pc² 1042.8					$\frac{Pc^2}{Pc^2 - Pw^2} = \frac{2.4120}{(2) \left[\frac{-Pc^2}{Pc^2 - Pw^2} \right]^n} = 1.9383$	
NO	Pt²	Pw	Pw²	Pc² - Pw²	$ROF = Q \left[\frac{Pc^2}{Pc^2 - Pw^2} \right]^n = 1805 \text{ Mcfd}$	
1.	719.4	851.9	725.8	317.1		
2.	682.6	830.9	690.3	352.5		
3.	629.2	798.3	637.3	405.6		
4.	597.8	779.9	608.2	434.7		
5.	0.0	0.0	0.0	0.0		

Absolute Open Flow 1805 Mcfd @ 15.025 Angle of Slope, 0 37 Slope, n .752

Remarks:

Approved By:	Conducted By: David Weaver	Calculated By: Andie Alderson	Checked By:
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