NEW XICO OIL CONSERVATION COMMSSIC

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: RETEST [X] Initial [ ] Annual [ ] Special					Test Date: 8-4-75				
Company: Amoco Production Company				Connection: Northern Natural Gas Company					
Pool: Eumont				Formation: Yates-7 Rivers-Queen				Unit	
Completion Date: 1-9-75		Total Depth: 3858'		Plug Back TD: 3650'		Elevation: 3542' RDB		Farm or Lease Name: Gillully Fed Gas Com	
Csg. Size: 7"	Wt.: 22	d:	Set At: 3750'	Perforations: From 2683' To 3613'				Well No.: 7	
Tbg. Size: 2-3/8 EUE	Wt.: 4.7#	d: 1.995	Set At: 3549'	Perforations: From To				Unit: 0 Sec.: 24 Twp.: 205 Rge.: 36E	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single-Gas				Packer Set At: 2648'				County: Lea	
Producing Thru: Tubing		Reservoir Temp. °F: 102 @ 3500'		Mean Annual Temp. °F: 60		Baro. Press. – P_a: 13.2		State: New Mexico	
L: 2683	H: 3549	Gg: .688S (Incl.Wtr)	% CO_2: 2.94	% N_2: 2.17	% H_2S: .68	Prover: 1.50"	Meter Run: 4"	Taps: Pipe	

	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					480.0		Packer		71.5 Hrs.
1.	4" x 1.50	140.0	5.0	82	267	84			1.5 Hrs.
2.	4" x 1.50	140.0	2.5	83	272.5	84			1.5 Hrs.
3.	4" x 1.50	140.0	0.2	89	284	84			1.25 Hrs.
4.									
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	11.82	27.68	153.2	.9795	1.2055	1.013	391.35
2	11.82	19.57	153.2	.9786	1.2055	1.013	276.43
3	11.82	5.54	153.2	.9732	1.2055	1.012	77.75
4							
5							

NO.	P_t	Temp. °R	T_t	Z
1	.226	542	1.449	.975
2	.226	543	1.452	.975
3	.226	549	1.468	.976
4				
5				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas .6885 (Incl. Wtr) XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 677.75 P.S.I.A. _____ P.S.I.A.
Critical Temperature 374 R _____ R

P_c 493.2 P_c^2 243.25

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	78.51		80.26	162.99
2	81.62		82.49	160.76
3	88.33		88.40	154.85
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{243.25}{162.99}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.49$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 583$

Absolute Open Flow 583 Mcfd @ 15.025 Angle of Slope θ 45° Slope, n 1

Remarks: n of Dotted Line > 1, Used n=1
Four point test no good. See Northern Na-ural Gas Data Worksheet

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
Larry Kepton	Hamen & Welsch (NNG)	Dave Johnson	J. A. Detterick