STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: 4-POINT [X] Initial [ ] Annual [ ] Special				Test Date: 2-28-86	
Company: NEARBURG PRODUCING COMPANY		Connection: TO AIR			
Pool: Wildcat Devonian		Formation: MORROW			Unit
Completion Date: 2-27-86	Total Depth: 14590'	Plug Back TD: 13465'	Elevation: 0		Farm or Lease Name: FEDERAL LS COM
Csg. Size: 5.5000 / Wt.: 17.00 / d: / Set At: 14500'		Perforations: From 13055' To 13094'			Well No.: 1
Tbg. Size: 2.8750 / Wt.: 6.50 / d: / Set At: 13053'		Perforations: From 0 To 0			Unit: B / Sec.: 25 / Twp.: 20S / Rge.: 34E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE		Packer Set At: 12969'			County: LEA
Producing Thru: TUBING	Reservoir Temp. °F: 248 @ 13075'	Mean Annual Temp. °F: 60°	Baro. Press. – P_a: 13.2		State: NEW MEXICO

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
13075'	13075'	0.671	0.43	0.65	0	0	4.0	FLANGE

	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					4444		6806	248	24.0
1.	4.03 X 1.250	360	2.2	92	4190	62	6514	248	1.0
2.	4.03 X 1.250	518	7.8	83	3800	62	6177	248	1.0
3.	4.03 X 1.250	533	16.0	64	3570	62	5703	248	1.0
4.	4.03 X 1.250	578	36.0	66	3260	62	5383	248	1.0
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	7.47	28.98	373.2	0.9706	1.2204	1.0333	265
2.	7.47	64.53	531.2	0.9786	1.2204	1.0497	604
3	7.47	93.48	546.2	0.9962	1.2204	1.0583	898
4.	7.47	145.89	591.2	0.9943	1.2204	1.0624	1405
5.							

NO.	P_t	Temp. °R	T_r	Z
1	0.56	552	1.46	0.937
2.	0.79	543	1.44	0.907
3.	0.82	524	1.39	0.893
4.	0.88	526	1.39	0.886
5				

Gas Liquid Hydrocarbon Ratio: 9.353 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: 58.0 Deg.
Specific Gravity Separator Gas: 0.671 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX 0.927
Critical Pressure: 670 P.S.I.A. 657 P.S.I.A.
Critical Temperature: 378 R 458 R

P_c 4762.3 P_c^2 22679

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		4499	20245	2434
2		4198	17625	5054
3		3779	14279	8400
4		3500	12248	10431
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.1741$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.1741$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3054$

Absolute Open Flow: 3054 Mcfd @ 15.025 Angle of Slope θ: 45.0 Slope, n: 1.000

Remarks: CONFIDENTIAL

Approved By Division	Conducted By:	Calculated By:	Checked By: