STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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

RECEIVED APR 1 21988 clsf File

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED
APR 19 '88
O. C. D.
ARTESIA, OFFICE

Type Test: 4 POINT ☒ Initial ☐ Annual ☐ Special						Test Date: 4-4-88					
Company: NEARBURG PRODUCING COMPANY				Connection: TO AIR							
Pool: Undesignated Morrow				Formation: Morrow						Unit: H	
Completion Date: 4-1-88		Total Depth		Plug Back TD: 9884		Elevation		Farm or Lease Name: ANDERSON 15			
Csg. Size: 4.5	Wt.: 11.6	d: 4.052	Set At: 9884	Perforations: From 9565	To 9647			Well No.: 1			
Tbg. Size: 2.375	Wt.: 4.7	d: 1.995	Set At: 9450	Perforations: From OPEN	To ENDED			Unit: H	Sec.: 15	Twp.: 20	Rge.: 25
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE				Packer Set At: 9491				County: EDDY			
Producing Thru: TUBING	Reservoir Temp. °F: 210 @ 9606		Mean Annual Temp. °F: 60°		Baro. Press. – P_a: 13.2			State: NEW MEXICO			
L: 9606	H: 9606	Gg: 0.600	% CO_2: 0.97	% N_2: 2.90	% H_2S: Ø	Prover: Ø		Meter Run: 3.067		Taps: FLNG	

NO.	FLOW DATA: Prover Line Size	X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	BHP DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI						2768	70	N/A	N/A	72 HRS.
1.	3.067	1.250	220	7.0	70	2310	71	N/A	N/A	60 MIN
2.	3.067	1.250	220	12.0	72	1675	72	N/A	N/A	60 MIN.
3.	3.067	1.250	210	18.0	75	950	72	N/A	N/A	60 MIN/
4.	3.067	1.250	450	28.0	78	630	72	N/A	N/A	1080 MIN
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	7.58	40.40	233.2	0.9905	1.2910	1.0174	398
2.	7.58	52.90	233.2	0.9887	1.2910	1.0172	520
3.	7.58	63.38	223.2	0.9859	1.2910	1.0161	621
4.	7.58	113.88	463.2	0.9831	1.2910	1.0328	1131
5.							

NO.	P_t	Temp. °R	T_r	Z
1	0.35	530	1.52	0.966
2.	0.35	532	1.52	0.966
3.	0.33	535	1.53	0.969
4.	0.69	538	1.54	0.938
5				

Gas Liquid Hydrocarbon Ratio 0 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 0 Deg.
Specific Gravity Separator Gas .600 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX .600
Critical Pressure 672 P.S.I.A. 672 P.S.I.A.
Critical Temperature 349 R 349 R

P_c 2773.1 P_c^2 7690

NO	P_t	P_w	P_w^2	$P_c^2 - P_w^2$
1		2316	5364	2326
2		1684	2837	4853
3		967	934	6756
4		671	450	7240
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0622$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0569$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1196$

CONFIDENTIAL

Absolute Open Flow 1196 Mcfd @ 15.025 Angle of Slope θ 47.5 Slope, n 0.917

Remarks: 4TH RATE RUN 18 HRS. WELL WAS PRODUCING H_2O PRODUCED 38 BBLS IN 21 HRS.

Approved By Division	Conducted By:	Calculated By:	Checked By:
	BENNETT & CATHEY	RICHARD TOWNLEY	