STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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: ☒ Initial ☐ Annual ☐ Special			Test Date: 9-3-80		
Company: ME -TEX SUPPLY		Connection: El Paso Natural Gas Company			
Pool: Eumont		Formation: Queen		Unit: K	
Completion Date: 7-15-80	Total Depth: 3726	Plug Back TD: 3717	Elevation: 3527.5 GL	Farm or Lease Name: Wallace State	
Csg. Size: 5½ / Wt.: 15.5 / d: / Set At: 3726		Perforations: From 3433 To 3460		Well No.: 8	
Tbg. Size: 2 3/8 / Wt.: 4.7 / d: / Set At: 3439		Perforations: From Open To End		Unit: K / Sec.: 3 / Twp.: 21 / Rge.: 36	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single		Packer Set At: None		County: Lea	
Producing Thru: TBG.	Reservoir Temp. °F: 108 @ 3433	Mean Annual Temp. °F:	Baro. Press. - P_a: 13.2	State: New Mexico	
L: 3433	H: 3433	Gg: .679	% CO_2: 3.40	% N_2: 1.75	% H_2S: .24
Prover:	Meter Run: 4"	Taps: Flg.			

FLOW DATA

NO.	Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA Press. p.s.i.g.	TUBING DATA Temp. °F	CASING DATA Press. p.s.i.g.	CASING DATA Temp. °F	Duration of Flow
SI					236		236		48 hr.
1.	4.0 X 1.50	48	1.0	78	226		226		45 Min.
2.	4.0 X 1.50	49	4.0	78	217		217		30 Min
3.	4.0 X 1.50	50	9.0	76	206		209		45 Min.
4.	4.0 X 1.50	54	15.21	75	194		200		45 Min.
5.	4.0 X 1.50	57	23.04	74	178		190		1 hr.

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	10.84	7.82	61.2	.9831	1.214	NIL	101
2.	10.84	15.77	62.2	.9831	1.214	NIL	204
3.	10.84	23.85	63.2	.9850	1.214	NIL	309
4.	10.84	31.97	67.2	.9859	1.214	NIL	415
5.	10.84	40.22	70.2	.9868	1.214	NIL	522

NO.	P_r	Temp. °R	T_r	Z
1	.09	538	1.44	NIL
2.	.09	538	1.44	NIL
3.	.09	536	1.43	NIL
4.	.10	535	1.43	NIL
5	.10	534	1.43	NIL

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas .679 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 678 P.S.I.A. _____ P.S.I.A.
Critical Temperature 374 R _____ R

P_c 249.2 P_c^2 62.10

NO	P_w	P_w^2	$P_c^2 - P_w^2$
1	239.2	57.22	4.88
2	230.2	52.99	9.11
3	222.2	49.37	12.73
4	213.2	45.45	16.65
5	203.2	41.29	20.81

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.9841$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.98410$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.558$

Absolute Open Flow 1.558 Mcfd @ 15.025 | Angle of Slope θ 45 | Slope, n 1.0

Remarks: No fluid made during test.

Approved By Division	Conducted By:	Calculated By:	Checked By:
John W. Runyan	Bill G. Rea	Bill G. Rea	Reginald Reston