NE MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 9-1-65

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: ☒ Initial ☐ Annual ☐ Special			Test Date: 8-1-80	
Company: CONOCO, INC.	Connection: EL PASO NATURAL GAS			330' FSL & 1650' FEL
Pool: EUMONT	Formation: QUEEN			Unit: O
Completion Date: 2-13-80	Total Depth: 3930'	Plug Back TD: 3856'	Elevation: 3716' GL	Farm or Lease Name: STATE KN-12
Csg. Size: 5 1/2" / Wt.: 15.5# / d: 4.950 / Set At: 3929'		Perforations: From 3668' To 3844'		Well No.: 7
Tbg. Size: 2 3/8" / Wt.: 4.7# / d: 1.995 / Set At: 3822'		Perforations: From OPEN To ENDED		Unit: O / Sec.: 12 / Twp.: 19S / Rge.: 36E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE		Packer Set At: NONE		County: LEA
Producing Thru: CSG.	Reservoir Temp. °F: 100 @ 3900'	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
3822'	3822'	.741	3.35	2.30	1.59		4"	FLG.

	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					153		133		24 HRS.
1.	4" X 1.000"	54	34.8	96	123		130	(STABILIZED)	60 MIN.
2.	4" X 1.000"	57	64.8	93	123		179	"	45 MIN.
3.	4" X 1.750"	58	17.6	96	123		174	"	45 MIN.
4.	4" X 1.750"	62	34.8	92	123		165		60 MIN.
5.	4" X 1.750"	69	71.4	89	123		151		60 MIN.

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	4.753	48.359	67.2	.9671	1.162	NIL	253
2.	4.753	67.446	70.2	.9653	1.162	NIL	360
3.	14.93	35.399	71.2	.9671	1.162	NIL	594
4.	14.93	51.156	75.2	.9706	1.162	NIL	861
5.	14.93	76.610	32.2	.9732	1.162	NIL	1293

NO.	P_t	Temp. °R	T_r	Z
1.	.10	556	1.42	NIL
2.	.10	558	1.42	NIL
3.	.10	556	1.42	NIL
4.	.11	552	1.41	NIL
5.	.12	549	1.40	NIL

Gas Liquid Hydrocarbon Ratio: NONE Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: ____ Deg.
Specific Gravity Separator Gas: .741 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 631 P.S.I.A. ____ P.S.I.A.
Critical Temperature: 392 R ____ R

P_c 196.2 P_c^2 38.49

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	18.55	193.2	37.33	1.16
2	18.55	191.2	36.56	1.93
3	18.55	187.2	35.04	3.45
4	18.55	178.2	31.76	6.73
5	18.55	164.2	26.96	11.53

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.338$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.325$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3,006$

Absolute Open Flow: 3,006 Mcfd @ 15.025 | Angle of Slope θ: 55° | Slope, n: .700

Remarks: FLOWED WELL THROUGH CASING DUE TO TUBING LOADING UP WITH FLUID DURING FIRST 48 HR. SHUT IN PERIOD. RECOVERED 2 BBLS. OF FLUID DURING TEST.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
Orig. Signed Jerry Sexton	TOM C. ADAMSELL	TOM C. ADAMSELL	