N MEXICO OIL CONSERVATION COMM ON

MULTIPOINT AND ONE POINT BACK PRESSURE TES FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: ☒ Initial ☐ Annual ☐ Special			Test Date: 9-25-81	
Company: CONOCO, INC.	Connection: EL PASO NATURAL GAS			1650'FSL & 1650'FWL
Pool: EUMONT	Formation: QUEEN			Unit: K
Completion Date: 7-4-80	Total Depth: 3800'	Plug Back TD: 3722'	Elevation: 3525'GL	Farm or Lease Name: SEMU EUMONT
Csg. Size: 5½" / Wt.: 15.5 / d: 4.950 / Set At: 3800'		Perforations: From 3551' To 3696'		Well No.: 110
Tbg. Size: 2⅜" / Wt.: 4.7 / d: 1.995 / Set At: 3520'		Perforations: From OPEN To ENLED		Unit: K / Sec.: 23 / Twp.: 20S / Rge.: 37E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE		Packer Set At: NONE		County: LEA
Producing Thru: TUBING	Reservoir Temp. °F: 90° @ 3800'	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
3520'	3520'	.716	3.64	1.26	.10	—	4"	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					149		146		43Hrs.
1.	4" X .750"	58	2.25	85	148		145	(STABILIZED)	30 MIN.
2.	4" X .750"	59	7.29	86	146		144	"	30 MIN.
3.	4" X .750"	59	16.00	88	144		142	"	30 MIN.
4.	4" X .750"	59	33.64	88	140		140	"	30 MIN.
5.	4" X .750"	60	42.25	90	137		138	"	30 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	2.661	12.657	71.2	.9768	1.192	NIL	39
2	2.661	22.942	72.2	.9759	1.192	NIL	70
3	2.661	33.988	72.2	.9741	1.192	NIL	104
4	2.661	49.283	72.2	.9741	1.182	NIL	151
5	2.661	55.612	73.2	.9723	1.182	NIL	170

NO.	P_t	Temp. °R	T_r	Z
1	.10	545	1.40	NIL
2	.11	546	1.40	NIL
3	.11	548	1.41	NIL
4	.11	548	1.41	NIL
5	.11	550	1.41	NIL

Gas Liquid Hydrocarbon Ratio: NONE Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: Deg.
Specific Gravity Separator Gas: .716 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 679 P.S.I.A. P.S.I.A.
Critical Temperature: 389 R R

P_c = 679.2 P_c^2 = 25.34

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	25.99	158.2	25.03	0.31
2	25.34	157.2	24.71	0.63
3	24.71	155.2	24.09	1.25
4	23.47	153.2	23.47	1.87
5	22.56	151.2	22.86	2.48

(1) $\frac{P_c^2}{P_c^2 - P_w^2}$ = 10.218

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 5.244

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 891

Absolute Open Flow: 391 Mcfd @ 15.025 | Angle of Slope θ: 54.5° | Slope, n: .713

Remarks: NO FLUID PRODUCED DURING TEST.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	T. C. ADUDELL	Jim C. Audadell	