NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: ☒ Initial ☐ Annual ☐ Special				Test Date: 8-21-80	
Company: CONOCO, INC.		Connection: EL PASO NATURAL GAS			1650'FNL & 660'FEL
Pool: CUSTER DEVONIAN		Formation: DEVONIAN			Unit: H
Completion Date: 6-30-80	Total Depth: 12,915'		Plug Back TD: 12,873'	Elevation: 3,236'GL	Farm or Lease Name: WELLS B-1
Csg. Size: 7" / Wt.: 29# / d: 6.184 / Set At: 12,282'			Perforations: From 9,756' To 9,776'		Well No.: 5
Tbg. Size: 2 3/8" / Wt.: 4.6# / d: 1.995 / Set At: 9,719'			Perforations: From OPEN To ENDED		Unit: H / Sec.: 1 / Twp.: 25S / Rge.: 36E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: DUAL - G.G.			Packer Set At: 9,696'		County: LEA
Producing Thru: TUBING	Reservoir Temp. °F: 172° @ 9,766'	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
9,766'	9,766'	.654	.66	.98	.11	—	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					2479	78			24½ HRS
1.	4" X 2.750"	323	4.0	83	2434	74		(STABILIZED)	45 MIN.
2.	4" X 2.750"	315	20.25	80	2296	74			60 MIN.
3.	4" X 2.750"	315	31.36	80	2216	74			60 MIN.
4.	4" X 2.750"	357	49.0	63	1943	74			60 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	41.10	36.672	336.2	.9786	1.237	1.031	1881
2.	41.10	81.523	328.2	.9813	1.237	1.030	4189
3.	41.10	101.451	328.2	.9813	1.237	1.030	5213
4.	41.10	134.684	370.2	.9971	1.237	1.038	7087
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	.50	543	1.44	.941
2.	.49	540	1.44	.942
3.	.49	540	1.44	.942
4.	.55	523	1.39	.928
5.				

Gas Liquid Hydrocarbon Ratio 42.375 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 61.1 °API @ 60°F Deg.
Specific Gravity Separator Gas .654 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 670 P.S.I.A. ____ P.S.I.A.
Critical Temperature 376 R ____ R

P_c 2583.2 P_c^2 6672.9

NO	* P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	3194.2	2473.2	6116.7	556.2
2	3102.2	2399.1	5755.7	917.2
3	3046.2	2354.4	5543.2	1129.7
4	2888.2	2229.6	4971.1	1701.8
5	3333.2	(SIBHP)		

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.921$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3.1467$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 22,301.3$

Absolute Open Flow 22,301 Mcfd @ 15.025 Angle of Slope θ 50° Slope, n .839

Remarks: * BHP WERE MEASURED @ 6000' BECAUSE OF CROOKED TUBING AND WERE EXTRAPOLATED TO MIDPOINT OF PERFORATIONS - 9,766'. WELL PRODUCED 67.6 BBLS OF CONDENSATE DURING TEST.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
Jerry Sexton Dist. I, Supv.	TOM C. ADKISSELL	TOM C. ADKISSELL	