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: 4-9-81	
Company: CONOCO, INC.		Connection: EL PASO NATURAL GAS			1980'FNL & 1980'FEL
Pool: SKAGGS		Formation: ABO			Unit: G
Completion Date: 10-16-80	Total Depth: 7936'		Plug Back TD: 7700'	Elevation: 3562'GL	Farm or Lease Name: BRITT B
Csg. Size: 7" / Wt.: 26# / d: 6.276 / Set At: 7935'			Perforations: From 7046' To 7056'		Well No.: 27
Tbg. Size: 2 3/8" / Wt.: 4.6# / d: 1.995 / Set At: 7026'			Perforations: From OPEN To ENDED		Unit: G / Sec.: 15 / Twp.: 20S / Rge.: 37E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: DUAL - G.O.			Packer Set At: 7026'		County: LEA
Producing Thru: TUBING	Reservoir Temp. °F: 145° @ 7051'	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
7051'	7051'	.643	.40	2.57	.0004	—	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					1644				44 Hrs.
1.	4" X 2.500"	83	10.24	106	1640			(STABILIZED)	45 MIN.
2.	4" X 2.500"	88	25.00	100	1592			"	45 MIN.
3.	4" X 2.500"	97	49.00	87	1536			"	45 MIN.
4.	4" X 2.500"	113	81.00	73	1415				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	32.64	31.386	96.2	.9585	1.247	NIL	1224
2.	32.64	50.299	101.2	.9636	1.247	NIL	1973
3.	32.64	73.483	110.2	.9750	1.247	NIL	2916
4.	32.64	101.105	126.2	.9877	1.247	NIL	4065
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	0.14	566	1.55	NIL
2.	0.15	560	1.54	NIL
3.	0.17	547	1.50	NIL
4.	0.19	533	1.46	NIL
5.				

Gas Liquid Hydrocarbon Ratio 51.489 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 57.5 @ 60° Deg.
Specific Gravity Separator Gas .643 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 665 P.S.I.A. ____ P.S.I.A.
Critical Temperature 364 R ____ R

P_c 1698.7 P_c^2 2885.6

NO	* P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	2039.2	1698.7	2885.6	0.0
2	2025.2	1687.1	2846.3	39.3
3	2006.2	1671.8	2794.9	90.7
4	1962.2	1635.7	2675.5	210.1
5	2039.2	(SIBHP)		

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 73.425$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 8.569$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 16,907$

Absolute Open Flow 16,907 Mcfd @ 15.025 | Angle of Slope θ 63.5° | Slope, n 0.500

Remarks: * BHP WELL MEASURED AT 7051'. WELL PRODUCED 7 BBLS CONDENSATE AND 7 BBLS WATER DURING TEST.

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