NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 4-1-65

Type Test: ☒ Initial ☐ Annual ☐ Special			Test Date: 2/4/81	
Company: Conoco Inc.	Connection: New			
Pool: Basin	Formation: Dakota		Unit: G	
Completion Date: 1/16/81	Total Depth: 6,809'	Plug Back TD: 6,801'	Elevation: 6537 G.L.	Farm or Lease Name: N.E. HAYNES
Csg. Size: 5 1/2 / Wt.: 15.5# / d: 5.22 / Set At: 6,809		Perforations: From 6676 To 6745		Well No.: 2E
Tbg. Size: 2 3/8 / Wt.: 4.7# / d: 1.995 / Set At: 6,796'		Perforations: From To		Unit: G. / Sec.: 16 / Twp.: 24N / Rge.: 5W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single Gas		Packer Set At: None		County: Rio Arriba
Producing Thru: Tubing	Reservoir Temp. °F: @ 114°F	Mean Annual Temp. °F: 55°	Baro. Press. – P_a: 12.2	State: New Mexico
L: 6776.5 / H: 6776.5	Gg: .620	% CO_2:	% N_2:	% H_2S: / Prover: 3/4" / Meter Run: / Taps:

FLOW DATA / TUBING DATA / CASING DATA

NO.	Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI	S.I. 7 DAYS				1432#		1449#		S.I.
1.	3/4" x 2" Choke				146#	58°	562#		3 HOURS
2.									
3.									
4.									
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	9.604		158.2	1.002	1.270	N/A	1,933.43
2.							
3.							
4.							
5.							

NO.	P_t	Temp. °R	T_t	Z
1				
2.				
3.				
4.				
5.				

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

P_c 1461.2 P_c^2 2135105.4

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	25027.2	294.84	86931.7	2048173
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.042$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.031$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1993.36$

Absolute Open Flow 1993.36 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n .75

Remarks: KB 14.5'

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	R.A. Farmer	R.A. Farmer	