

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test 4 POINT ☒ Initial ☐ Annual ☐ Special		Test Date 9-14-87		710 FSL	
Company CONOCO INC.		Connection EPNG		2200 FEL	
Pool EUNICE/MONUMENT		Formation EUNICE/QUEENS		Unit 0	
Completion Date 8-25-87		Total Depth 3801		Plug Back TD 3801	
Elevation 3580		Farm or Lease Name STATE "D"		Well No. 17	
Csg. Size 5.500		Set At 14		Perforations: From 3486 To 3660	
Thq. Size 2.375		Set At 4.7		Perforations: From OPEN To ENDED	
Type Well - Single - Brdenhead - G.G. or G.O. Multiple SINGLE		Packer Set At 3380		County LEA	
Producing Thru TUBING		Reservoir Temp. °F 108°		Mean Annual Temp. °F 60°	
Baro. Press. - P _a 13.2		State NEW MEXICO		Meter Run 4.026	
L 3573		H 3573		G _g 0.704	
% CO ₂ 4.14		% N ₂ 1.18		% H ₂ S 0.61	
Prover Ø		Taps Ø		PLNG.	

FLOW DATA						TUBING DATA		BHP DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
1.	4.026	1.750	62	7.3	78	300	68	332	108	21.5 HRS
2.	4.026	1.750	62	20.2	72	292	72	325	108	60 MIN
3.	4.026	1.750	63	40.3	72	275	72	320	108	60 MIN
4.	4.026	1.750	66	84.6	72	254	72	313	108	60 MIN
5.						194	72	301	108	60 MIN

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	14.93	23.49	75.7	0.9831	1.1914	1.0070	414
2	14.93	39.15	75.7	0.9887	1.1914	1.0073	693
3	14.93	55.56	76.6	0.9887	1.1914	1.0074	984
4	14.93	81.88	79.2	0.9887	1.1914	1.0076	1451
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	0.11	538	1.41	0.986	0	0	0.704	XXXXXXX	687	382
2	0.11	532	1.39	0.986				XXXXXXX		
3	0.11	532	1.39	0.985				XXXXXXX		
4	0.11	532	1.39	0.985				XXXXXXX		
5										

NO.	P ₁ ²	P _w	P _w ²	P _c ² - P _w ²
1	308	95	4	
2	304	93	7	
3	298	89	10	
4	286	82	17	
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 5.8235$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4.6232$	
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 6708$			

Absolute Open Flow	6708	Mcfd @ 15.025	Angle of Slope @	49°	Slope, n	0.869
Remarks: USED AMARADA PRESSURE BOMBS						

Produced By:	Calculated By:	Checked By:
DISTRICT 1 SUPERVISOR	Richard Townley	Richard Townley

RECEIVED

SEP 24 1987

**OCD
HOBBS OFFICE**