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NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GASForm C-122
Revised 9-1-65

ARTESIA, OFFICE

d5r
File

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 4-2-85	
Company Conoco, Inc. ✓		Connection None	
Pool E. Burton Flat Morrow Undesignated		Formation Morrow	
Completion Date 4-2-85 3-30-85		Total Depth 12,000'	Plug Back TD 11,470'
Elevation 3440' GL		Farm or Lease Name Tuesday Federal	
Csg. Size 7"	Wt. 29#	Set At 6.184	Perforations: From 11,069' To 11,099'
Thg. Size 2 7/8"	Wt. 6.5#	Set At 2.441	Perforations: From open To Ended
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 11,050'	County Eddy
Producing Thru Tubing	Reservoir Temp. °F 233 @ 11,084'	Mean Annual Temp. °F 60	Baro. Press. - P _g 13.2
L 11,084'	H 11,084'	G _g 0.629	% CO ₂ 0.32
		% N ₂ 0.78	% H ₂ S —
		Prover —	Meter Run 4.026"
			Taps Flange

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
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	
SI							4069	74			14 Hrs. 55 Min.
1.	4.026" X 2.500"			605	10	75	3875	71			(Stabilized) 60 Min.
2.	4.026" X 2.500"			605	13	71	3870	72			60 Min.
3.	4.026" X 2.500"			610	27	49	3770	73			60 Min.
4.	4.026" X 2.500"			620	48	31	3570	75			60 Min.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	32.64	78.626	618.2	0.9859	1.261	1.056	3369
2	32.64	89.647	618.2	0.9896	1.261	1.057	3860
3	32.64	129.717	623.2	1.011	1.261	1.068	5765
4	32.64	174.338	633.2	1.029	1.261	1.080	7974
5							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1	0.92	535	1.45	0.897	83.206	
2	0.92	531	1.44	0.895	55.1 @ 60°F	
3	0.93	509	1.38	0.876		
4	0.94	491	1.33	0.857		
5						

NO.	* P _t ²	P _w	P _w ²	P _t ² - P _w ²
1	5130.2	4031	16249.0	1015.0
2	5110.2	4016	16128.3	1135.7
3	5017.2	3936	15492.1	1771.9
4	4859.2	3805	14478.0	2786.0
5	5267.2 (SIHP)			

(1) $\frac{P_t^2}{P_t^2 - P_w^2} = 6.197$

AOF = Q $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 37,445.9$

(2) $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 4.696$

Post ID 2
9-27-85
comp & BH

Absolute Open Flow	37,446	Mcf/d @ 15.025	Angle of Slope @	49.7	Slope, n	0.848
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Remarks: * BHP's were measured @ 11,003' and extrapolated to 11,084'.
Well produced 10.5 bbls. condensate and 1 bbl. water during test.

Approved By Commission:	Conducted By: R. Townley T.C. Aduddell	Calculated By: Tom C. Aduddell	Checked By:
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