

W MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
CSF

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 7-21-80		JUL 27 1980	
Company Internorth Inc.				Connection		O. C. D. ARTESIA, OFFICE	
Pool N. Turkey Track				Formation Morrow		Unit	
Completion Date		Total Depth		Plug Back TD		Elevation	
						Farm or Lease Name State LG 4216	
Csg. Size 5.5	Wt. 17#	d 4.892	Set At 11,137	Perforations: From 10812 To 10827		Well No. 1	
Tbg. Size 2 3/8"	Wt. 4.7#	d 1.995	Set At 10676	Perforations: From To		Unit Sec. Twp. Rge. F 36 18 S 28 E	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single				Packer Set At 10676		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 148 @ 10820		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
State New Mexico							
L 10820	H 10820	G _g .704	% CO ₂ 0	% N ₂ 0	% H ₂ S 0	Prover X	Meter Run X
Taps							

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							1394	86			
1.	2.0		.75	30.4	60	77	1350	86			1 hr.
2.	2.0		.75	30.6	100	71	968	88			1 hr.
3.	2.0 CFP		3/16"	774		82	778	82			1 hr.
4.	2.0 CFP		1/4"	440		81	442	85			1 hr.
5.											

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	2.709	42.71	43.6	.9840	1.192	1.015	138
2	2.709	55.32	43.8	.9896	1.192	1.015	179
3	.6082 CFP		787.2	.9795	1.192	1.087	566
4	1.087 CFP		453.2	.9804	1.192	1.050	604
5							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio	None Measured	Mcf/bbl.
1.	.07	537	1.37	.971	A.P.I. Gravity of Liquid Hydrocarbons		Deg.
2.	.07	531	1.35	.971	Specific Gravity Separator Gas	.704	X X X X X X X X
3.	1.18	542	1.39	.847	Specific Gravity Flowing Fluid	X X X X X	
4.	.68	541	1.38	.907	Critical Pressure	668	P.S.I.A. 668 P.S.I.A.
5.					Critical Temperature	392	R 392 R

P _c 1407.2 P _c ² 1980				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		1363.2	1858	122
2		981.2	963	1017
3		791.2	626	1354
4		455.2	267	1713
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.15587$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 698$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.15587$$

Absolute Open Flow	698	Mcf/d @ 15.025	Angle of Slope θ	45°	Slope, n	1.00
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Remarks: Stepwise Procedure was attempted, but due to low volumes and low pressures, we feel this is not necessary, (copy of 1st rate calculations attached). Surface pressures plotted as observed.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
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