

RECEIVED BY
NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL
APR 15 1986

Form C-122
Revised 9-1-65

O. C. D.

ARTESIA, OFFICE

Type Test FOUR POINT Initial		Connection EL PASO NATURAL GAS		Test Date 3-7-86	
Company SANTA FE ENERGY		Formation ATOKA		Unit ON	
Pool W. Sand Dunes Atoka		Completion Date 3-4-86		Farm or Lease Name PURE GOLD C FED	
Total Depth 14850 16500 FEET		Plug Back 14047 FEET		Elevation 3327	
Casing Size 7.6250		Set At 14100		Perforations: From 13818 To 13854	
Thq. Size 2.8750		Set At 13657		Perforations: From To	
Type Well - Single - Brdenhead - G.G. or G.O. Multiple SINGLE		Packor Set At 13661		County Eddy	
Producing Thru TUBING		Reservoir Temp. °F 210 13657		Mean Annual Temp. °F 60°	
Baro. Press. - P _a 13.2		State NEW MEXICO		Motor Run 4.0	
L 13836		H 13836		Cg 0.571	
% CO ₂ 0.51		% N ₂ 0.63		% H ₂ S 0	
Prover 0		Motor Run 4.0		Taps FLANGE	

FLOW DATA							TUBING DATA		CASING 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.	Temp. °F	
SI							6633	62			72
1.	4.03	X	1.00	689	6.8	78	4842	70	0	0	1.0
2.	4.03	X	1.00	656	16.0	76	3830	70	0	0	1.0
3.	4.03	X	1.00	672	22.1	73	3030	70	0	0	1.0
4.	4.03	X	1.00	656	50.4	71	2325	70	0	0	1.0
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	4.75	68.90	702.2	0.9831	1.3229	1.0483	446.
2	4.75	103.48	669.2	0.9850	1.3229	1.0468	671.
3	4.75	123.03	685.2	0.9877	1.3229	1.0490	801.
4	4.75	183.67	669.2	0.9896	1.3229	1.0486	1198.
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1	1.04	538.	1.55	0.910	0.	
2	0.99	536.	1.54	0.913	0.	
3	1.01	533.	1.54	0.909	0.571	XXXXXXX
4	0.99	531.	1.53	0.909	675	675 P.S.I.A.
5					347	347 R

NO.	P _i ²	P _w ²	P _r ²	P _c ² - P _w ²
1	4845.		23470	20723
2	3833		14689	29503
3	3034		9202	34991
4	2332		5440	38753
5				

(1) $\frac{P_c^2}{P_r^2 - P_w^2} = 1.1404$ (2) $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 1.1404$

AOI = 0 $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1366.$

Absolute Open Flow	1366.	Mcf @ 15.025	Angle of Slope °	45.0	Slope, n	1.000
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Remarks:

Approved By Commission	Conducted By	Calculated By	Checked By
	BENNETT & CATHEY	RICHARD TOWNLEY	