

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

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 9/6/74		SEP 12 1974	
Company Inexco Oil Company				Connection None		O. C. C. ARTESIA, OFFICE	
Pool Cataw Draw				Formation Marrow		Unit	
Completion Date 8/1/74		Total Depth 11,010		Plug Back TD 10,976		Elevation 3360 KB	
Farm or Lease Name Inexco/ Fed. 17		Well No. 1					
Csg. Size 5 1/2	Wt. 17.0#	d 4.892	Set At 11010	Perforations: From 10,746 To 10,887		Well No.	
Tbg. Size 2 3/8	Wt. 5.80#	d 1.867	Set At 10,650	Perforations: From To		Unit Sec. Twp. Rge. X 17 21S 26E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 10,650		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 170@ 11,000		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
State New Mexico							
L 10,650	H 10,650	G _g 0.623	% CO ₂ 4.06%	% N ₂ 0.3%	% H ₂ S ---	Prover	Meter Run 4"
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							3167	70	Choke:		159
1.	4	X	1.5	200	86	103	2500	76	11/64		2.5
2.	4	X	1.5	200	51	108	2669	80	9/64		0.75
3.	4	X	1.5	185	28	113	2807	80	8/64		0.75
4.	4	X	1.5	180	8	110	2960	80	6/64		0.75
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	10.84	135.41	213.2	.9610	1.267	1.014	1812
2	10.84	104.27	213.2	.9568	1.267	1.013	1388
3	10.84	74.50	198.2	.9526	1.267	1.012	906
4	10.84	39.31	193.2	.9551	1.267	1.012	522
5							

NO.	P _t	Temp. °R	T _f	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.	0.31	563	1.57	.973	Dry Gas		0.623		688	358
2.	0.31	568	1.59	.974						
3.	0.29	573	1.60	.977						
4.	0.28	570	1.59	.977						
5.										

$P_c = 3180.2$ $P_c^2 = 10113.7$				$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 2.764$		$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.764$	
NO	P _t ²	P _w	P _w ²	P _c ² - P _w ²			
1	2940.6	6454.9	3658.8				
2	2697.5	7276.5	2837.2				
3	2827.5	7995.0	2118.7				
4	2975.2	8851.8	1261.9				
5							

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 5009$				5009	
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Absolute Open Flow 5009 Mcfd @ 15.025		Angle of Slope 45°	Slope, n 1:300
Remarks:			
Approved By Commission:			
Conducted By:		Calculated By:	
Checked By:			