

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

Form C-122
Revised 9-1-65

RECEIVED

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C-122 file*

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 7-21-72		OCT 17 1972	
Company INEXCO OIL COMPANY				Connection None		O. C. C.	
Pool Catchlaw Draw Morrow				Formation Morrow B, C, D		ARTESIA, OFFICE	
Completion Date 7-21-72		Total Depth 10,800		Plug Back TD 10759		Elevation 3310 GL	
Csg. Size 5 1/2		Wt. 17 & 20#		Set At 4.653		Perforations: From 10536 To 10724	
Tbg. Size 2 7/8		Wt. 6.5#		Set At 2.347		Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single (Potential Dual)				Packer Set At 10,454		Unit 18 21S 26E	
Producing Thru Tubing		Reservoir Temp. °F 160 @ 10720		Mean Annual Temp. °F		Baro. Press. - P _a	
L 10,630		H 10,630		G _g 0.5828		% CO ₂ Mol % .0079	
				% N ₂ Mol % .0019		% H ₂ S 0	
				Prover		Meter Run 4"	
						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	75 1/2 hrs						3486		Pkr.		
1.	4"	X	2"	135	3.5	95	3408	70	"		1 hr.
2.	4"	X	2"	155	6.5	95	3356	70	"		1 hr.
3.	4"	X	2"	250	28.0	94	3095	70	"		1 hr.
4.	4"	X	2"	550	32.0	89	2704	70	"		1 hr.
5.	4"	X	2"	550	60.0	80	2103	70	"		1 hr.

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	19.81	22.8	148.2	0.9680	1.310	1.009	577.9
2	19.81	33.1	168.2	0.9680	1.310	1.010	839.8
3	19.81	85.8	263.2	0.9688	1.310	1.016	2191.6
4	19.81	135.0	563.2	0.9732	1.310	1.036	3532.2
5	19.81	183.8	563.2	0.9813	1.310	1.040	4867.8

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Dry Gas	Mcf/bbl.
1.	0.22	555	1.59	0.982	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.		
2.	0.25	555	1.59	0.980	Specific Gravity Separator Gas 0.583 XXXXXXXXXX		
3.	0.39	554	1.58	0.968	Specific Gravity Flowing Fluid XXXXX		
4.	0.84	549	1.57	0.931	Critical Pressure 672 P.S.I.A. _____ P.S.I.A.		
5.	0.84	540	1.54	0.925	Critical Temperature 350 °R _____ °R		

P _s 4391.2 P _{s2} 19,283			
NO.	P _s	P _{s2}	P _{s2} - P _{s2}
1	4320.2	18664	16195
2	4250.2	18064	1219
3	3956.2	15652	3631
4	3501.2	12258	7025
5	2807.2	7880	11403

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

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

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

Absolute Open Flow 7300 Mcfd @ 15.025	Angle of Slope @ 53° 27'	Slope, n 0.7411
Remarks: BHP measured with Amerada RPG-3 gauge		
Approved By Commission:	Conducted By: Tefteller, Inc.	Calculated By: F. Tefteller
		Checked By: