

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

Form C-122
Revised 6-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 12/9/80	JAN 12 1981								
Company Tenneco Oil Company		Connection None		O. C. D.							
Pool Turkey Track		Formation Morrow		Unit ARTESIA, OFFICE							
Completion Date 12/1/80	Total Depth 11696'	Plug Back TD 11696'	Elevation 3430'GL+20'	Form or Lease Name State JL 36							
Cas. Size 5 1/2"	Wt. 17#	Set At 4.892	Perforations: From 11216' To 11226'	Well No. 1							
Tub. Size 2 3/8"	Wt. 4.7#	Set At 1.995	Perforations: From Open Ended To	Unit Sec. Twp. Rys. 0 36 18s 29e							
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single			Packer Set At 11158'	County Eddy							
Producing Thru Tubing	Reservoir Temp. °F 172 @ 11156'	Mean Annual Temp. °F 60	Baro. Press. - P ₀ 13.2	State New Mexico							
L 11221	H -	G _g 0.7054	% CO ₂ 4.293	% N ₂ 1.664							
FLOW DATA			% H ₂ S -	Prover 3.826 X 1.000 F							
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	TUBING DATA Press. p.s.i.g. DWT	Temp. °F	CASING DATA Press. p.s.i.g.	Temp. °F	Duration of Flow
SI											
1.	3.826	3/64	1.000	470	4	62	3331		PACKER		7.0 Days
2.	3.826	4/64	1.000	480	8	61	3255	90			1.0 hrs.
3.	3.826	6/64	1.000	480	12	60	3193	76			1.0 hrs.
4.	3.826	8/64	1.000	500	39	60	3145	60			1.0 hrs.
5.						60	2602	60			1.0 hrs.
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, Mhd				
1	4.758	43.96	483.2	0.9981	1.191	1.051	261.3				
2	4.758	62.81	493.2	0.9990	1.191	1.052	374.1				
3	4.758	76.93	493.2	1.0000	1.191	1.052	458.6				
4	4.758	141.47	513.2	1.0000	1.191	1.055	845.8				
5											
NO.	R _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio 26.942						
1	0.70	522	1.38	0.906	A.P.I. Gravity of Liquid Hydrocarbons - Mhd/Lbl.						
2	0.72	521	1.38	0.903	Specific Gravity Separator Gas 0.7054						
3	0.72	520	1.38	0.903	Specific Gravity Flowing Fluid X X X X X						
4	0.75	520	1.38	0.899	Critical Pressure 686 P.S.I.A.						
5					Critical Temperature 377 °R						
r _c 4713.2 P _c ² 22214.3											
NO.	r _t	P _w *	r _w ²	r _c ² - P _w ²	(1) $\frac{P_c^2}{r_c^2 - r_w^2} = 2.803$ (2) $\left[\frac{P_c^2}{r_c^2 - r_w^2} \right]^n = 1.811$						
1		4616.2	21309.3	905.0	ADP = Q $\left[\frac{r_c^2}{r_c^2 - r_w^2} \right]^n = 1532$						
2		4512.2	20359.9	1854.4							
3		4426.2	19591.2	2623.1							
4		3780.2	14289.9	7924.4							
5											
Absolute Open Flow 1532					Mhd @ 15.025		Angle of Slope @ 60° 4'		Slope, n 0.576		
Remarks: BOTTOM HOLE PRESSURE @ (-7791) 11221' USED FOR PRESSURE CALCULATIONS 3.0 BD in 4.0 Hours = 18.0 BD/D											
Approved By Commission:			Conducted By: JARREL SERVICES, INC.			Calculated By: Joe A. Coleman			Checked By: Joe A. Coleman		