

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 10/14/85							
Company TENNECO OIL CO.				Connection							
Pool UNDESIGNATED				Formation FRUITLAND-COAL							
Completion Date		Total Depth 6016		Plug Back TD 5999							
Elevation		Farm or Lease Name KERNAGHAN									
Csg. Size 7" 4 1/2"		Set At 3616 6016		Perforations: From 3169 To 3314							
Well No. LS 1A											
Trq. Size 1 1/4"		Set At 3313		Perforations: From To							
Unit E		Sec. 33		Twp. 31							
Age 8											
Type Well - Single - Bordenhead - G.C. or G.O. Multiple				Packer Set At 3456							
Producing Thru				County SAN JUAN							
Reservoir Temp. °F				State NEW MEXICO							
Mean Annual Temp. °F											
Baro. Press. - P _a											
L		H		Cg							
.680		% CO ₂		% N ₂							
% H ₂ S		Prover		Meter Run							
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	Duration of Flow
1.	2X6X.75						1460		1460		3 hours
2.							90		748		
3.											
4.											
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, Mgd				
1.	11		102	.9981	1.213	1.0112	1373				
2.											
3.											
4.											
5.											
NO.	R _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio		Mc/Std. A.P.I. Gravity of Liquid Hydrocarbons				
1.	.15	522	1.35	.978	Specific Gravity Separator Gas		X X X X X X X X				
2.					Specific Gravity Flowing Fluid		X X X X X X X X				
3.					Critical Pressure		P.S.I.A.				
4.					Critical Temperature		R				
5.											
F _c 1472 P _c ² 2166784											
NO.	P _t ²	P _w	F _t ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.3634$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.3015$				
1.		760	577600	1589184							
2.											
3.											
4.											
5.											
Absolute Open Flow 1786 Mgd @ 15.025 Angle of Slope 0 Slope, n .85											
Remarks:											
Approved By Division Conducted By: Calculated By: Checked By:											