

MULTIPO AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

958
File
Form
Revised 9-83

RECEIVED BY

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O. C. D.

ARTESIA, OFFICE

Type Test 4 POINT ☒ Initial ☐ Annual ☐ Special				Test Date 7-10-84							
Company TRANSWESTERN GAS SUPPLY				Connection TO AIR							
Pool ANTELOPE RIDGE <i>Wood. H. H.</i>				Formation ABO							
Completion Date 10-12-82		Total Depth 3612.		Elevation 4443.							
Casing Size 4.500		Casing Weight 10.5		Perforations From 3066. To 3112.							
Tubing Size 2.375		Tubing Weight 4.7		Perforations From 0 To 0							
Type Well - Single - Brdenhead - G.O. or G.O. Multiple SINGLE				Factor Gel At 0							
Producing thru TUBING		Reservoir Temp. °F 105. 3089.		Mean Annual Temp. °F 60.0							
L 3089.		H 3089.		Cg 0.616							
CO ₂ 0.		H ₂ 5.46		H ₂ O 0.							
Provor 2.0		Motor Run 0		Taps FLANGE							
FLOW DATA											
NO.	Provor Line Size	X	Orifice Size	Pres. p.s.i.g.	Diff. hw	Temp. °F	Pres. p.s.i.g.	Temp. °F	Pres. p.s.i.g.	CHOKE	Duration of Flow
51							400.	70.	100		72.0
1.	2.00 X 0.063			95.	0.	91.	295.	105.	294	21/64	1.0
2.	2.00 X 0.063			250.	0.	89.	265.	105.	264	21/64	1.0
3.	2.00 X 0.094			145.	0.	86.	153.	105.	153	21/64	1.0
4.	2.00 X 0.125			120.	0.	84.	135.	105.	135	4/64	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 _{sp}	Rate of Flow Q, Mscf/d				
1	0.06	0.	108.2	0.9715	1.2741	1.0070	9.				
2	0.06	0.	263.2	0.9732	1.2741	1.0175	21.				
3	0.14	0.	158.2	0.9759	1.2741	1.0106	28.				
4	0.26	0.	133.2	0.9777	1.2741	1.0090	44.				
5											
NO.	R ₁	Temp. °R	T ₁	Z	Gas Liquid Hydrocarbon Ratio _____ 0. _____ Mscf/bbl.						
1	0.16	551.	1.58	0.986	A.P.I. Gravity of Liquid Hydrocarbon _____ 0. _____ Deg.						
2	0.40	549.	1.57	0.966	Specific Gravity Separator Gas _____ 0.616 _____						
3	0.24	546.	1.57	0.979	Specific Gravity Flowing Fluid _____ XXXXX _____						
4	0.20	544.	1.56	0.982	Critical Pressure _____ 662. _____ P.S.I.A.						
5					Critical Temperature _____ 349. _____ H						
1	412.9	P _w ²	P _w ²	P _w ² - P _w ²	(1) $\frac{P_c^2}{P_w^2 - P_w^2} = 1.1470$						
1	95.	307.	94.	76.	(2) $\left[\frac{P_c^2}{P_w^2 - P_w^2} \right]^n = 1.1470$						
2	77.	277.	77.	94.							
3	28.	166.	27.	143.	ADP = 0 $\left[\frac{P_c^2}{P_w^2 - P_w^2} \right]^n = 51.$						
4	22.	148.	22.	149.							
5											
Absolute Open Flow _____ 51. _____ Mscf @ 15.025				Angle of Slope @ _____ 45.0		Slope, n _____ 1.000					
Remarks:											
Approved By Commission		Conducted By		Calculated By		Checked By					
RICHARD TOWNLEY		BENNETT & CATHEY, INC									