

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

Copy to 51
C-122
Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 10-23-75		DEC 5 1975		
Company David Fasken				Connection None				O.C.C. ARTESIA, OFFICE	
Pool Undesignated				Formation Wolfcamp				Unit	
Completion Date 9-11-75		Total Depth 9700		Plug Back TD 7415		Elevation 3533 KB		Farm or Lease Name Seven Rivers Fed.	
Csg. Size 4 1/2	Wt. 11.60	d 4.000	Set At 7472	Perforations: From 7240 To 7282		Well No. 1			
Thg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 6960	Perforations: From To		Unit Sec. Twp. Rge. C 17 20S 25E			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single					Packer Set At 6960		County Eddy		
Producing Thru Tubing		Reservoir Temp. °F 140 @ 7161		Mean Annual Temp. °F 70		Baro. Press. - P _a 13.2		State New Mexico	
L 7261	H 7261	Gg 0.600	% CO ₂	% N ₂	% H ₂ S	Prover X	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
SI	431 hrs.			1646		75	1646	75	Pkr		
1.	2"	X	1/16	1625		77	1625	77			60 min.
2.	2"	X	3/32	1615		79	1615	79			60 min.
3.	2"	X	1/8	1582		81	1582	81			60 min.
4.	2"	X	3/16	1549		82	1549	82			60 min.
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	0.06405		1638.2	0.9840	1.291	1.119	149.2
2.	0.1410		1628.2	0.9822	1.291	1.116	324.9
3.	0.2648		1595.2	0.9804	1.291	1.115	596.1
4.	0.6082		1562.2	0.9795	1.291	1.112	1336.0
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Dry Gas	Mcf/bbl.
1	2.44	537	1.50	0.798	A.P.I. Gravity of Liquid Hydrocarbons	Dry Gas	Deg.
2.	2.43	539	1.51	0.803	Specific Gravity Separator Gas	0.600	X X X X X X X X
3.	2.38	541	1.51	0.805	Specific Gravity Flowing Fluid	X X X X X	
4.	2.33	542	1.51	0.808	Critical Pressure	671	P.S.I.A. P.S.I.A.
5.					Critical Temperature	358	R R

P_f 2160.2 P_f 2 4666

NO.	P _r ²	P _s	P _s ²	P _f ² - P _s ²
1	2156.2	4649	17	
2	2146.2	4606	60	
3	2124.2	4512	154	
4	2070.2	4286	380	
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 12.27895$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 6.849239$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 9150.6$

Absolute Open Flow <u>9150.6</u> Mcfd @ 15.025		Angle of Slope @ <u>52° 30'</u>	Slope, n <u>0.767235</u>
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Remarks: BHP measured with Amerada R2G-3 gauge Serial No. 10190-N 0-4000 psi

Approved By Commission:	Conducted By: Tefteller, Inc.	Calculated By: P. McGuire	Checked By:
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