

RECEIVED

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

Form C-122
Revised 9-1-65

Type Test ☒ ARTESIA OFFICE Initial ☐ Annual ☐ Special		Test Date 11/5/70	
Company BYRON M. McKNIGHT		Connection Pending	
Pool		Formation Atoka	
Completion Date 11/15/70		Total Depth ?	Plug Back TD ?
Elevation ?		Farm or Lease Name Grandi Ranch	
Csg. Size 5 1/2"	Wt. 20	d 4.778	Set At --
Perforations: From 10,608 To 10,618		Well No. 1	
Tbg. Size 2 3/8"	Wt. 4.7	d 1.995	Set At ?
Perforations: From 10,658 To 10,671		Unit Sec. Twp. Rge. J 19 23S 26E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 10,500	County Eddy
Producing Thru Tubing	Reservoir Temp. °F a	Mean Annual Temp. °F 60	Baro. Press. - P _a 13.2
State New Mexico		Prover 2"	
L 1500 ?	H	G _g .612	% CO ₂ .60 % N ₂ .56 % H ₂ S 0
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
SI			
1.	2.00 x 3/32	317 849	.37 73
2.	2.00 x 3/16	413 823	.75 76
3.	2.00 x 1/4	317 761	1.21 73
4.	2.00 x 5/16	317 704	1.62 70
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	.1410	7.73	410.2
2	.6082	15.75	426.2
3	1.087	25.24	410.2
4	1.672	33.73	410.2
5			
NO.	F _r	Temp. °R	T _r
			Z
1	.61	533	1.45148 .9305
2	.63	536	1.46111 .92915
3	.61	533	1.45448 .9305
4	.61	530	1.45477 .9302
5			
Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.			
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.			
Specific Gravity Separator Gas _____ X X X X X X X X			
Specific Gravity Flowing Fluid _____ X X X X X			
Critical Pressure 615 P.S.I.A. _____ P.S.I.A.			
Critical Temperature 360 R _____ R			
F _c 1143.2 P _c ² 1306.9			
NO.	P _r ²	P _w	P _w ²
			P _c ² - P _w ²
1	Used	1124.2	1263.8
2	Amerac	1090.2	1188.5
3	Bomb	1008.2	1016.5
4		937.2	878.3
5			
(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.049$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.341$	
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2107$			
Absolute Open Flow 1790 2/100 Mcfd @ 15.025		Angle of Slope 56.5	
Slope, n 763		662	
Remarks:			
Approved By Commission:		Conducted By:	
Calculated By:		Checked By:	