

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

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 10/06/79		OCT 15 1979	
Company Amoco Production Company				Connection Gas Co. of New Mexico		O. C. C. ARTESIA, OFFICE	
Pool Shugart Penn				Formation Penn			
Completion Date 02/05/79		Total Depth 12220.		Plug Back TD 11990.		Elevation 3614.	
Farm or Lease Name Greenwood Unit							
Csg. Size 5.500	Wt. 29.0	d 4.778	Set At 12220.	Perforations: From 11854. To 11860.		Well No. 11	
Thg. Size 2.375	Wt. 4.7	d 1.995	Set At 11803.	Perforations: From 11898. To 11906.		Unit Sec. Twp. Hgt. L 34 18S 31E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 11736		County Eddy	
Producing Thru Tubing		Reservoir Temp. *F 197.8 11880.		Mean Annual Temp. *F 60.0		Baro. Press. - P _a 13.2	
State New Mexico							
L 11880.	H 11880.	G _g 0.669	% CO ₂ 0.52	% N ₂ 0.48	% H ₂ S 0.	Prover 0.	Meter Run 2.1
						Taps Flange	

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							2112.	72.			47.0
1.	2.07 x 1.250			409.	2.2	73.	1772.	72.	0.	0.	1.0
2.	2.07 x 1.250			409.	4.0	74.	1510.	74.	0.	0.	1.0
3.	2.07 x 1.250			409.	5.8	74.	990.	74.	0.	0.	1.0
4.	2.07 x 1.250			410.	1.7	74.	415.	74.	0.	0.	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 _{pv}	Rate of Flow Q, Mcfd
1.	8.12	30.82	422.2	0.9877	1.2226	1.0416	315.
2.	8.12	41.10	422.2	0.9868	1.2226	1.0414	419.
3.	8.12	49.31	422.2	0.9868	1.2226	1.0414	503.
4.	8.12	26.74	423.2	0.9868	1.2226	1.0415	273.
5.							

NO.	P _t	Temp. *R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
1.	0.63	533.	1.41	0.922	Specific Gravity Separator Gas 0.669	X X X X X X X X
2.	0.63	534.	1.41	0.922	Specific Gravity Flowing Fluid X X X X X	0.669
3.	0.63	534.	1.41	0.922	Critical Pressure 671. P.S.I.A.	671. P.S.I.A.
4.	0.63	534.	1.41	0.922	Critical Temperature 378. R	378. R
5.						

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1.	3187.	1774.	3148.	1308.	1.2906	1.1368
2.	2320.	1514.	2291.	2165.		
3.	1006.	1002.	1003.	3453.		
4.	183.	430.	185.	4271.		
5.						

Absolute Open Flow 572. Mcfd @ 15.025				Angle of Slope @ 63.3		Slope, n 0.503	
Remarks:							
Approved By Commission:		Conducted By: John West Engrg.		Calculated By: C.C. Weaver		Checked By: W.D. Magness	