

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

Form C-122
 Revised 6-1-65

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 2-16-84	
Company AMOCO		Connection GAS	
Pool UND		Formation STRAWN	
Completion Date 02-07-84		Total Depth 13670.	
Plug Back TD 13165.		Elevation 3681.	
Farm or Lease Name NELLIS		Unit 0	
Csa. Size 5.500	Wt. 17.0	d 4.892	Set At 13699.
Thq. Size 2.375	Wt. 4.7	d 1.995	Set At 12375.
Perforations: From 12376. To 12384.		Well No. 2	
Perforations: From 0. To 0.		Unit Sec. Twp. Rge. 6-19S-33E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE		Packer Set At 12265.	
Producing Thru TUBING		Reservoir Temp. °F 174.0 12380.	
Mean Annual Temp. °F 60.0		Baro. Press. - P _a 13.2	
State NEW MEXICO		County LEA	
L 12380.	H 12380.	G _g 0.704	% CO ₂ 0.17
% N ₂ 2.44	% H ₂ S 0.0	Prover 0.0	Meter Run 4.0
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
1.	4.00 X 1.375			572.	2.0	60.	4320.	75.			120.0
2.	4.00 X 1.375			587.	7.3	60.	2860.	56.	0.	0.	0.8
3.	4.00 X 1.375			603.	11.6	60.	1595.	56.	0.	0.	0.8
4.	4.00 X 1.375			611.	16.0	60.	1161.	56.	0.	0.	0.8
5.							797.	38.	0.	0.	0.6

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.	9.07	33.87	585.2	1.0000	1.1921	1.0697	392.
2.	9.07	66.17	600.6	1.0000	1.1921	1.0716	767.
3.	9.07	84.40	616.2	1.0000	1.1921	1.0736	980.
4.	9.07	99.94	624.2	1.0000	1.1921	1.0747	1162.
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.	0.88	520.	1.35	0.874	2.1	53.0	0.704	XXXXXX	664.	384.
2.	0.90	520.	1.35	0.871						
3.	0.93	520.	1.35	0.868						
4.	0.94	520.	1.35	0.866						
5.										

NO.	P _c ²	P _w	P _w ²	P _c ² - P _w ²
1.	8255.	2885.	8323.	10281.
2.	2566.	1621.	2627.	15976.
3.	1379.	1189.	1414.	17191.
4.	656.	637.	744.	17901.
5.				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0725$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1207.$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0725$

Absolute Open Flow	1207 Mcfd @ 15.025	Angle of Slope θ	Slope, n
Remarks:			

Approved By Commission:	Conducted By:	Calculated By: Barbara Wagner	Checked By:
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MAR 5 1984
O.C.D.
HOBBS OFFICE