

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 8/27/66	
Company Jake L. Hamon		Connection None	
Pool North Osado Morrow		Formation Morrow	
Completion Date 8/25/66	Total Depth 11,578	Plug Back TD 5" OD 18# Liner 11012 to 11578	Elevation 11012 to 11578
Farm or Lease Name Amerada Federal			
Csg. Size 7"	Wt. 23 & 26	d 6.366	Set At 11,160
Perforations: From 11,358 To 11,388		Well No. 1	
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 10,999
Perforations: From open ended To		Unit N	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 10,988 & 10,992	County Lea
Producing Thru Tubing	Reservoir Temp. °F 158 @ 11,580	Mean Annual Temp. °F 60°	Baro. Press. - P _a 13.2
State New Mexico			
L 10,999	H 10,999	G _g .609	% CO ₂ 0.4%
% N ₂ 0.00		% H ₂ S 0.0	Prover X
Meter Run X		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							5011	84	Pkr	Choke:	34
1.	4		2.25	482	9.2	74	4795	84		11/64	1
2.	4		2.25	630	21	73	4579	84		13/64	1
3.	4		2.25	660	37	67	4340	84		16/64	1
4.	4		2.25	730	61	62	3939	84		20/64	1
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	25.64	67.50	495.2	.9868	1.281	1.040	2275
2	25.64	116.2	643.2	.9877	1.281	1.052	3966
3	25.64	157.8	673.2	.9933	1.281	1.058	5447
4	25.64	212.9	743.2	.9981	1.281	1.065	7433
5							

NO.	P _t	Temp. °R	T _t	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	.738	534	1.49	.924	10.442 Ave.	50.6	.609	.779	666	415
2	.959	533	1.49	.903						
3	1.00	527	1.47	.894						
4	1.11	522	1.46	.881						
5										

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1	23119	4841.6	23441	1802
2	21088	4687.3	21971	3272
3	18950	4538.2	20595	4648
4	15620	4304.8	18531	6712
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \underline{3.761}$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{23.823}$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{3.205}$

Absolute Open Flow 23.823 Mcfd @ 15.025	Angle of Slope ϕ	Slope, n .879
Remarks:		
Approved By Commission:		
Conducted By: <i>H. L. Smith</i>	Calculated By: <i>H. L. Smith</i>	Checked By: