

NE 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 8-7-67	
Company Amerada Petroleum Corp.		Connection	
Pool Bagley		Formation Penn	
Completion Date 11-4-52		Total Depth 9417'	Plug Back TD 9033'
Elevation 4250' DF		Farm or Lease Name State BT "C"	
Csg. Size 5-1/2"	Wt. 17#	Set At 4,892 I.D. 9417'	Perforations: From 8917' To 9025'
Tbg. Size 2-3/8"	Wt. 4.7#	Set At 1,995 8877'	Perforations: From Open To Ended
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 8807'	County Lea
Producing Thru Tbg.		Reservoir Temp. °F 145° @ 8794'	Mean Annual Temp. °F 60°
Baro. Press. - P _a 13.2		State New Mexico	
L 8794	H 8794	Gg 0.600	% CO ₂ % N ₂ % H ₂ S
Prover 4" Orifice Well Tester		Meter Run Taps	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI						1700	75	Packer		
1.	4 x	1-3/4		5	70	1525	75			1.75
2.	4 x	1-3/4		16	70	1520	75			1.4
3.	4 x	1-3/4		27	70	1505	75			1.4
4.	4 x	1-3/4		36	70	1490	75			1.4
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	511.5			.9905			507
2	963.8			.9905			955
3	1307.5			.9905			1295
4	1564.2			.9905			1549
5							

NO.	P _t	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	2.55	535	1.36	0.693	26.2 Mcf/bbl.	61.2 Deg.	0.6 est.	X X X X X X X X	668 P.S.I.A.	392 R
2	2.53	535	1.36	0.694				0.707		
3	2.53	535	1.36	0.694						
4	2.52	535	1.36	0.695						
5										

NO.	P _c	P _w	P _c ²	P _w ²	P _c ² - P _w ²
1	1790	1723	3204	2969	235
2	2365	1716		2945	259
3	2350	1712		2931	273
4	2304	1712		2931	273
5	2259	1707		2914	290

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \underline{11.048}$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{11.048}$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{17,110}$

26.2 Mcf/bbl.

61.2 Deg.

0.6 est.

X X X X X

0.707

668 P.S.I.A.

392 R

Absolute Open Flow	17,110 Mcfd @ 15.025	Angle of Slope @	45°	Slope, n	1.000
--------------------	-----------------------------	------------------	------------	----------	--------------

Remarks: **Bottom hole pressures were measured with an Amerada bomb at 8794' throughout the test. This is a retest. The slope of the back pressure curve for the first test was also greater than 1.000.**

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	D. Rutherford	K. A. Wagner	

AMERADA PETROLEUM CORPORATION
 State BT"C" No. 5
 Unit K, Sec. 35, T-11-S, R-33-E
 Lea County, New Mexico
 August 7, 1967

