

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

File
122 Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 8-6-79		AUG 15 1979	
Company GENERAL AMERICAN OIL CO. OF TX. TRANS-WESTERN PIPELINE COMPANY				O. C. C. ARTESIA, OFFICE	
Pool S. EMPIRE / /		MORROW		Unit GREEN "B"	
Completion Date 7-11-79		10,870		10,834	
Casing Size 5 1/2		Wt. 13.7		Elevation 3698 GL	
Perforations: From 10,744 To 10,784		Well No. 9		Unit 19 17S 29E	
Perforations: From OPEN To END		County EDDY		State NEW MEXICO	
Type Well - Single - Brdendhead - G.G. or G.O. Multiple SINGLE				Packer Set At 10,814	
Producing Thru TBG		Reservoir Temp. °F 182		Baro. Press. - P _g 13.2	
L 10,764		H 10,764		Prover 4"	
Gg .668		% CO ₂ .0049		% H ₂ S Nil	
Meter Run 4"		F/G F/G			

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							1564				24 HRS
1.	4 x 2.500			590	3	61	1527	85			1 HR.
2.	4 x 2.500			595	20.5	59	1387	84			1 HR.
3.	4 x 2.500			600	40	57	1223	84			1 HR.
4.	4 x 2.500			610	61	57	1006	84			1 HR.
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, F _{pv}	Rate of Flow Q, Mbl
1	32.64	42.54	603.2	.9990	1.224	1.066	1810
2	32.64	111.66	608.2	1.001	1.224	1.068	4769
3	32.64	156.61	613.2	1.003	1.224	1.070	6714
4	32.64	194.97	623.2	1.003	1.224	1.070	8360
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.L. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	.90	521	1.38	.880	170.228		.668	X X X X X X X X	670	378
2	.91	519	1.37	.876				X X X X X		
3	.92	517	1.37	.874						
4	.93	517	1.37	.873						
5										

NO.	P _r	P _w	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} =$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n =$
1	1595.3	2545.0			3.683	2.2412
2						
3						
4						
5						

Absolute Open Flow 18,737 Mbl @ 15.025		Angle of Slope θ 58.250		Slope, n .619	
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Remarks: BOTTOM HOLE PRESSURES MEASURED WITH KUSTER GAUGE. WELL MADE 5.3 BBLs OF FLUID DURING TEST.	
* CALCULATED FROM KNOWN BOTTOM HOLE PRESSURE	
Approved By Commission:	Conducted By: W. S.
Calculated By: R. R.	Checked By: J. W.