

NEW MEXICO SURVEILLANCE AND INVESTIGATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form G-122
Revised 9-1-65
2/8/98

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 7-30-74		AUG 5 1974	
Company JAKE L. HAMON				Connection NONE		O.C.C.	
Field CARLSBAD SOUTH MORROW				Formation MORROW		Unit ARTESIA, OFFICE	
Completion Date 7-14-74		Total Depth 11940		Plug Back TD 11891		Elevation 3284.8	
Farm or Lease Name STATE L 4325				Well No. 1			
Csg. Size 5 1/2	Wt. 17-20-26	Set At 11935	Perforations: From 11875 To 11885		Well No. 1		
Trg. Size 2 3/8	Wt. 4.7	Set At 11412	Perforations: From To		Unit K	Soc. 2	Twp. Rys. 24-S 26-E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE				Packer Set At 11412		County EDDY	
Producing Thru TUBING		Reservoir Temp. °F 175 @ 11412		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
State NEW MEXICO							
L 11412	H 11412	Gg 0.5830	% CO ₂ 1.873	% N ₂ 0.370	% H ₂ S -0-	Prover ---	Meter Run 4"
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" x 1.125"			425.0	11.0	98	3903.0		PACKER	CHOKE	
2	4" x 1.125"			440.0	24.0	128	3831.0	78		6/64"	60 MIN.
3	4" x 1.125"			460.0	49.0	132	3750.0	78		7/64"	60 MIN.
4	4" x 1.125"			460.0	49.0	132	3620.0	80		8/64"	60 MIN.
5	4" x 1.125"			850.0	80.0	132	3170.0	80		11/64"	60 MIN.

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_{wm}}$	Pressure P _m	Flow Temp. Factor Ft	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	6.031	69.43	438.2	.9653	1.310	1.027	544
2	6.031	104.29	453.2	.9404	1.310	1.022	792
3	6.031	152.27	473.2	.9372	1.310	1.022	1152
4	6.031	262.79	863.2	.9372	1.310	1.039	2022
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio DRG.	Mcf/bbl.
1	0.66	558	1.61	.949	A.P.I. Gravity of Liquid Hydrocarbons	Deg.
2	0.68	588	1.69	.958	Specific Gravity Separator Gas 0.5830	X X X X X X X X
3	0.71	592	1.71	.958	Specific Gravity Flowing Fluid X X X X X	
4	1.30	592	1.71	.927	Critical Pressure 665 P.S.I.A.	P.S.I.A.
5					Critical Temperature 347 R	R

P _F 4950.2 P _F ² 24505		(1) $\frac{P_F^2}{P_F^2 - P_S^2} = 3.3427$		(2) $\left[\frac{P_F^2}{P_F^2 - P_S^2} \right]^n = 2.1209$	
NO	P _w	P _w ²	P _w ² - P _S ²		
1	4871.2	23729	776.0		
2	4779.2	22841	1664.0		
3	4637.2	21504	3001.0		
4	4144.2	17174	7331.0		
5					

Absolute Open Flow 4288 Mcfd @ 15.025		Angle of Slope 58.1°		Slope, n 0.623	
Remarks:					

Approved By Commission:	Conducted By: G. PARKER	Calculated By: R. WEST.	Checked By:
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