

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 3-16-74		RECEIVED Santa Fe		
Company JULIAN ARD			Connection TO AIR		JUN 18 1974	
Pool			Formation MORROW		Unit O. C. C.	
Completion Date 2-15-74		Total Depth 12,500'		Plug Back TD 12,200		Elevation 3306' GR.
Csg. Size 5 1/2"	Wt. 6.5	d 2.441	Set At 12,187	Perforations: From 11,993 To 12,003		Well No. /
Tbg. Size 2 7/8"	Wt. 6.5	d 2.441	Set At 11,954	Perforations: From To		Unit Sec. Twp. Rge. G 25 19S 30E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE				Packer Set At 11,954		County EDDY
Producing Thru TUBING		Reservoir Temp. °F 192° @ 11,99'		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2
State NEW MEXICO						
L 11,954	H 11,954	G _g 0.6779	% CO ₂ 0.81	% N ₂ 0.42	% 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	
SI							2858.0		PACKER - CHOKE		
1.	4"	x	1.00"	480.0	16.0	85	2267.0	61	7/64"		1.0 HR.
2.	4"	x	1.00"	480.0	19.0	90	1953.0	64	8/64"		1.0 HR.
3.	4"	x	1.00"	480.0	35.0	90	1538.0	64	10/64"		1.0 HR.
4.	4"	x	1.00"	480.0	48.0	95	1130.0	65	13/64"		1.0 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, Fpv	Rate of Flow Q, Mcfd
1	4.753	88.83	493.2	.9768	1.214	1.047	524
2	4.753	96.80	493.2	.9723	1.214	1.045	568
3	4.753	131.38	493.2	.9723	1.214	1.045	770
4	4.753	153.86	493.2	.9680	1.214	1.044	897
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	0.74	545	1.43	.913	24.444	
2.	0.74	550	1.44	.915	50.4 @ 60	
3.	0.74	550	1.44	.915	0.6779	XXXXXX
4.	0.74	555	1.45	.917	XXXXXX	
5.						

NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1884$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1874$
1	5199.3			3044.5		
2	3865.9			4377.9		
3	2406.2			5837.6		
4	1306.9	1148.0	1317.9	6936.9		
5						

Absolute Open Flow		1065	Mcf/d @ 15.025	Angle of Slope θ	45.5°	Slope, n	982
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Remarks:

USED BY PLOT AND CALCULATE POTENTIAL DUE TO FRICTION CALCULATIONS ON HIGH RATE OF FLOW