

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

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☐ Initial ☐ Annual ☒ Special				Test Date 5-12-71		MAY 17 1971	
Company Texas American ✓				Connection None		O. C. C.	
Pool Lower Penn. Morrow Sand Dune				Formation Morrow		Unit ARTESIA, OFFICE	
Completion Date 3-18-71		Total Depth 15,400		Plug Back TD 15,250		Elevation 3499 GL	
Csg. Size 5 1/2		Wt. 23		d 4.670		Set At 15,400	
Perforations: From 14,862 To 98		Well No. 1		Perforations: From To		Unit Sec. Twp. Rge. F 36 23 31-E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 13,233		County Eddy		State New Mexico	
Producing Thru Tbg.		Reservoir Temp. °F 229 @ 14,806		Mean Annual Temp. °F 80		Baro. Press. - P _a 13.2	
L 14,880		H 14,880		Gg .596		% CO ₂ .80	
				% N ₂ .21		% H ₂ S - -	
Prover None		Meter Run X		Taps Flange			

FLOW DATA						TUBING DATA		CASING DATA		Direction 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	4.026 X		1.500	420	17	68	4905	75	(Packer)		60 Min.
2	4.026 X		1.500	425	31	68	3965	78			60 Min.
3	4.026 X		1.500	425	42	68	3215	78			60 Min.
4	4.026 X		1.500	425	49	71	2655	81			60 Min.

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	10.84	86.0	433.2	.9924	1.295	1.033	1.238
2	10.84	117.0	438.2	.9924	1.295	1.034	1.684
3	10.84	136.0	438.2	.9924	1.295	1.034	1.958
4	10.84	147.0	438.2	.9896	1.295	1.034	2.110

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio No liquid Mcf/bbl.	A.P.I. Gravity of Liquid Hydrocarbons No liquid Deg.	Specific Gravity Separator Gas 0.596	Specific Gravity Flowing Fluid X X X X X	Critical Pressure P.S.I.A.	Critical Temperature R
1								X X X X X X X X		
2										
3										
4										
5										

NO.	P _t ²	P _w ²	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1		7901.2	62.428			
2		6012.2	36.146	26282		
3		5568.2	31.005	31423		
4		4648.2	21.605	40823		
5		4006.2	16.049	46379		

Absolute Open Flow 2,580 Mcfd @ 15.025		Angle of Slope θ 58		Slope, n 0.625	
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Remarks: Pressures obtained by Amerada RPG-3 Pressure Recorder			
Approved By Commission:		Conducted By: Bill Pyle	
		Calculated By: Richard Turner	
		Checked By:	