

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 10-23-79		NOV 5 1979	
Company Harvey E. Yates Company				Connection El Paso Natural Gas			
Pool South Empire Morrow Wildest				Formation Morrow		Unit B.E.C. ARTESIA, OFFICE	
Completion Date 12-14-78		Total Depth 11155		Plug Back TD 11072		Elevation 3536.3 GL	
Csg. Size 4 1/2"		Wt. 11.60		Set At 11113		Perforations: From 10915 To 10928	
Tub. Size 2 3/8"		Wt. 4.70		Set At 10821		Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 10821		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 164 @ 10772		Mean Annual Temp. °F 70		Baro. Press. - P _a 13.2	
L 10922		H 10922		Gg 0.681		% CO ₂ 0.72	
				% N ₂ 0.39		% H ₂ S Nil	
				Prover		Meter Run X	
						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	72 hours						1687	58	Pkr.		
1.	4" X 1.000			275	1.7	78	1606	61	"		60 mins.
2.	4" X 1.000			278	2.4	80	1550	65	"		60 mins.
3.	4" X 1.000			305	3.4	75	1446	67	"		60 mins.
4.	4" X 1.000			319	5.3	72	1225	70	"		60 mins.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$ L - 10 Chart	XXXXXX * P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	4.753	5.37 X 1.7	3.162	0.9831	1.212	1.028	168.1
2	4.753	5.4 X 2.4	3.162	0.9813	1.212	1.028	238.1
3	4.753	5.52 X 3.4	3.162	0.9859	1.212	1.031	347.5
4	4.753	5.65 X 5.3	3.162	0.9887	1.212	1.034	557.6
5.			*L-10 Factor				

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Nil	Mcf/bbl.
1		USED			A.P.I. Gravity of Liquid Hydrocarbons	Nil	Deq.
2.		SIMPLIFIED			Specific Gravity Separator Gas	0.681	XXXXXXX
3.		SUPERCOMPRESSIBILITY			Specific Gravity Flowing Fluid	XXXXX	
4.		TABLES			Critical Pressure	669	P.S.I.A.
5					Critical Temperature	385	R

P _f 2447.2	P _f 5989		
NO.	P _t ²	P _f ²	P _t ² - P _f ²
1	2294.2	5263	726
2	2225.2	4952	1037
3	2104.2	4428	1561
4	1827.2	3339	2650
5			

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 2.26000$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1168.132$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.09493$$

Absolute Open Flow	1168.132	Mcf @ 15.025	Angle of Slope °	47.79°	Slope, n	0.90698
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Remarks: BHP measured with RPG-3 Gauge No. 44784, 0-6000 PSI Range

Approved By Commission:	Conducted By: Teffeller, Inc.	Calculated By: D. A. Warren, Jr.	Checked By:
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