

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 3-2-81		MAR 10 1981	
Company Harvey E. Yates Company ✓				Connection El Paso Natural Gas			
Pool Undesignated South Empire (Morrow)				Formation Upper Morrow		Unit	
Completion Date 1-16-81		Total Depth 11234		Plug Back TD 10890		Elevation 3524.5 GL	
Farm or Lease Name Travis 24 State Com.				Well No. 1			
Csq. Size 5 1/2	Wt. 20#	d 4.778	Set At 11234	Perforations: From 10738 To 10848		Unit Sec. Twp. Rge. H 24 18S 28E	
Thq. Size 2 3/8	Wt. 4.70#	d 1.995	Set At 10700	Perforations: From To			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 10700		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 163 @ 10650		Mean Annual Temp. °F 70		Baro. Press. - P _a 13.2	
State New Mexico							
L 10793	H 10793	Gg 0.650	% CO ₂ 0.62	% N ₂ 0.55	% 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. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
Sl	60 1/2 hours		L-10 Chart			2529		Pkr.	-	
1.	4" X 1.000"		7.75	1.2	85	2392	70	Pkr.	-	60 mins.
2.	4" X 1.000"		7.80	2.0	80	2256	70	Pkr.	-	60 mins.
3.	4" X 1.000"		7.80	3.1	80	2070	70	Pkr.	-	60 mins.
4.	4" X 1.000"		7.80	5.2	80	1640	70	Pkr.	-	60 mins.
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$ hw X Pm	Pressure L-10 Factor	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	4.753	9.30	3.162	0.9768	1.2403	1.055	178.6
2	4.753	15.60	3.162	0.9813	1.2403	1.053	300.5
3	4.753	24.18	3.162	0.9813	1.2403	1.053	465.7
4	4.753	40.56	3.162	0.9813	1.2403	1.053	781.2
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 45.717	Mcf/bbl.
1.	USED SIMPLIFIED				A.P.I. Gravity of Liquid Hydrocarbons N/A	Deg.
2.	SUPERCOMPRESSIBILITY				Specific Gravity Separator Gas 0.650	X X X X X X X X
3.	TABLES				Specific Gravity Flowing Fluid X X X X X	
4.					Critical Pressure 670	P.S.I.A.
5.					Critical Temperature 375	R

P _f 3575.2	P _f ² 12782	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.767911$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.607339$
NO.	P _t ²	P _s ²	P _f ² - P _s ²
1	3412.2	11643	1139
2	3238.2	10486	2296
3	2975.2	8852	3930
4	2356.2	5552	7230
5			

Absolute Open Flow 1255.653		Mcf/d @ 15.025	Angle of Slope @ 50.21°	Slope, n 0.832890
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Remarks: BHP measured with Amerada RPG-3 Guage No. 47615, 0-6000 P.S.I. Range			
Approved By Commission:	Conducted By: Teffeller, Inc.	Calculated By: D. A. Warren, Jr.	Checked By: <i>Paul Harder</i>

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