

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

Copy 151
C-122
Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 8-19-75		SEP 8 1975	
Company Harvey E. Yates Co., Inc.				Connection None					
Pool Burton Flats				Formation Strawn				Unit O.C.C. ARTESIA, OFFICE	
Completion Date 5-15-75		Total Depth 11750		Plug Back TD 10610		Elevation 3315 KB		Farm or Lease Name Cedar Hills Unit	
Csq. Size 5 1/2	Wt. 17 & 20	d 	Set At 11750	Perforations: From 10411 To 10441		Well No. 2			
Thq. Size 2 7/8	Wt. 6.5	d 	Set At 10254	Perforations: From To		Unit Sec. Twp. Rge.			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 172 @ 10226		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State New Mexico	
L 10426	H 10426	G _g 0.600	% CO ₂	% N ₂	% H ₂ S	Prover		Meter Run L-10	Taps

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.	
SI							2838		Pkr	
1.	4"	X	1"	410		85	2802	70		60 min.
2.	4"	X	1"	403		87	2743	70		60 min.
3.	4"	X	1"	410		88	2679	70		60 min.
4.	4"	X	1"	410		89	2532	70		60 min.
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure L-10f	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	4.753	10.88	3.162	0.9768	1.291	1.028	212.0
2	4.753	19.05	3.162	0.9750	1.291	1.028	370.5
3	4.753	29.21	3.162	0.9741	1.291	1.028	567.5
4	4.753	52.48	3.162	0.9732	1.291	1.028	1018.7
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons <u>0.600</u> Deg.
2.	Used simplified Supercompress-				Specific Gravity Separator Gas _____ XXXXXXXXXX
3.	sibility tables				Specific Gravity Flowing Fluid _____ XXXXX
4.					Critical Pressure <u>671</u> P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature <u>358</u> R _____ R

P _f 3976.2 P _f ² 15810				
NO.	P _t ²	P _s	P _s ²	P _f ² - P _s ²
1		3944.2	15557	253
2		3903.2	15235	575
3		3841.2	14755	1055
4		3705.2	13729	2081
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 7.5993$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 5155.3$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 5.0607$$

*Handled
9-12-75*

Absolute Open Flow	5155.3	Mcfd @ 15.025	Angle of Slope @	51° 21'	Slope, n	0.79964
Remarks: BHP measured with Amerada RPG-3 gauge Serial No. 31203, 0-6000 psi						
Approved By Commission:	Conducted By: Tefteller, Inc.	Calculated By: F. Tefteller	Checked By:			