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C-122

EW MEXICO OIL CONSERVATION CO. SSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
AUG 7 1975
O. C. C.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 7-22-75	
Company: Harvey E. Yates Co., Inc.		Connection			
Pool: Burton Flat Morrow		Formation: Morrow		Unit	
Completion Date	Total Depth: 11750	Plug Back TD: 11710	Elevation: 3300 GL	Farm or Lease Name: Cedar Hills ~~Unit~~ Com	
Csg. Size: 5 1/2" / Wt.: 17# & 20# / d / Set At: 11750	Perforations: From 11332 To 11633 ~~11448~~			Well No.: 2	
Tbg. Size: 2 7/8" / Wt.: 6.5 / d / Set At: 11252	Perforations: From ~~11545~~ To ~~11633~~			Unit: G / Sec.: 15 / Twp.: 21S / Rge.: 27E	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: 11252		County: Eddy	
Producing Thru: 2 7/8"	Reservoir Temp. °F: 167 @ 11202	Mean Annual Temp. °F: 70	Baro. Press. – P_a: 13.2	State: New Mexico	
L: 11483' / H: 11483' / Gg: 0.600	% CO_2	% N_2	% H_2S	Prover: Pos ck	Meter Run / Taps

	FLOW DATA				TUBING DATA		CASING DATA		
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	Duration of Flow
SI	Shut in 39 hrs.					3596		Pkr		
1.	2"	x 8/64	3282		78	3282	78	"		60 min.
2.	2"	x 9/64	3120		81	3120	81	"		60 min.
3.	2"	x 10/64	3081		82	3081	82	"		60 min.
4.	2"	x 11/64	2953		84	2953	84	"		60 min.
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	0.2618		3295.2	0.9831	1.291	1.114	1219.7
2.	0.3346		3133.2	0.9804	1.291	1.117	1482.2
3.	0.4173		3094.2	0.9795	1.291	1.119	1827.1
4.	0.5090		2966.2	0.9777	1.291	1.122	2138.2
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	4.91	538	1.50	0.806
2.	4.67	541	1.51	0.801
3.	4.61	542	1.51	0.798
4.	4.42	544	1.52	0.795
5.				

Gas Liquid Hydrocarbon Ratio: Dry Gas Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: Dry Gas Deg.
Specific Gravity Separator Gas: 0.600 XXXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 671 P.S.I.A. ____ P.S.I.A.
Critical Temperature: 358 R ____ R

P_f 4623.2 P_f^2 21374

NO	P_t^2	P_s	P_s^2	$P_f^2 - P_s^2$
1		4335.2	18794	2580
2		4180.2	17474	3900
3		4058.2	16469	4905
4		3964.2	15715	5659
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 5.4805$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 5.37635$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 7969$

Absolute Open Flow: 7969 Mcfd @ 15.025
Angle of Slope θ: 45° 20'
Slope, n: 0.98872

Remarks: BHP measured with Amerada RPG-3 gauge Serial No. 12468-N 0-6000 psi

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Tefteller, Inc.	F. Tefteller	