N. M. O. C. C. COPY

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

Form C-122
Revised 9-1-65

RECEIVED
MAR 19 1971
U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 3/5/71	
Company: Harvey E. Yates		Connection: None			Unit: ----
Pool: Undesignated		Formation: Morrow			
Completion Date: 3/5/71	Total Depth: 12195		Plug Back TD: 12195	Elevation: 3236 GR	Farm or Lease Name: Stebbins Deep Fed.
Csg. Size: 7" / Wt.: Various / d: 6.171 / Set At: 12195			Perforations: From 11276 To 11411		Well No.: 1
Tbg. Size: 2 3/8 / Wt.: 4.7# / d: 1.995 / Set At: 11250			Perforations: From OPEN To ENDED		Unit: H / Sec.: 30 / Twp.: 20S / Rge.: 29E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Multiple			Packer Set At: 11250		County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: @ 177°	Mean Annual Temp. °F: 66°	Baro. Press. – P_a: 13.2		State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
11250	11250	.604	1	2	----	2"	--	--

	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									SI 72hr
1.	2 x 3/8	36.67	--	63	3950.0	65			1
2.	"	129.50	--	61	3650.0	65	PKR		1
3.	"	246.60	--	61	3500.0	65			1
4.	"	400.70	--	61	2410.0	65			1
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	2.378	--	49.87	.9971	1.287	1.000	153
2	2.378	--	142.7	.9990	1.287	1.011	438
3	2.378	--	259.8	.9990	1.287	1.021	814
4	2.378	--	413.9	.9990	1.287	1.034	1313
5							

NO.	P_t	Temp. °R	T_r	Z
1	0.07	523	1.50	None
2	0.21	521	1.49	0.978
3	0.39	521	1.49	0.959
4	0.62	521	1.49	0.936
5				

Gas Liquid Hydrocarbon Ratio: Dry Gas Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: Dry Deg.
Specific Gravity Separator Gas: .604 xxxxxxxxx
Specific Gravity Flowing Fluid: xxxxx Dry Gas
Critical Pressure: 671 P.S.I.A. ____ P.S.I.A.
Critical Temperature: 349 R ____ R

* P_c 4773.2 P_c^2 22783.4 *BHP Bomb

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	*	4723.2	22308.6	474.8
2		4396.2	19326.6	3456.8
3		3666.2	13441.0	9342.4
4		2723.2	7415.8	15367.6
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.439$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.696$

*AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1381$

Absolute Open Flow: 1400 Mcfd @ 15.025 Angle of Slope θ: -- Slope, n: .593

Remarks: Tests Run on Shut-in Gas Well

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Bennett & Donahue	[illegible]	