NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 2-7-72	
Company: Ted Weiner		Connection: none			
Pool: Undesignated		Formation: Cisco Penn.		Unit	
Completion Date: 11-6-71	Total Depth: 7680	Plug Back TD: None	Elevation: 4366.1 GR	Farm or Lease Name: Federal 14	
Csg. Size: 4.5" / Wt. / d: 4.090" / Set At: 7617'		Perforations: From 7602' To 7606'		Well No.: 1	
Tbg. Size: 2.375" / Wt. / d: 1.995" / Set At: 7492'		Perforations: From To		Unit: K / Sec.: 14 / Twp.: 65 / Rge.: 33E	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: 7429'		County: Roosevelt	
Producing Thru: Tubing	Reservoir Temp. °F: 135 @ 7606	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2	State: New Mexico	

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
7492	7492	.735				3"		

	FLOW DATA					TUBING DATA		CASING DATA		
NO.	Prover Line Size	X Orifice Size	Press. ~~XXXX~~	Diff. h_w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI	Orifice Well Tester					1880	35			
1.	3	X 1.50	23" HG		43	1400	66			1 Hr.
2.	3	X 1.50	34" HG		38	1295	70	- Packer	-	1 Hr.
3.	3	X 1.50	47" HG		40	1175	74			1 Hr.
4.	3	X 1.50	54" HG		40	1040	76			1 Hr.
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	1120			1.0168	.9035	1.00	1029
2.	1420			1.0219	.9035	1.00	1311
3.	1776			1.0198	.9035	1.00	1637
4.	1962			1.0198	.9035	1.00	1808
5.							

NO.	P_t	Temp. °R	T_r	Z
1.		503		1.0
2.		498		1.0
3.		500		1.0
4.		500		1.0
5.				

Gas Liquid Hydrocarbon Ratio .7 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 58.0 Deg.
Specific Gravity Separator Gas .735 xxxxxxxxx
Specific Gravity Flowing Fluid xxxxx 1.055
Critical Pressure 668 P.S.I.A. 655 P.S.I.A.
Critical Temperature 401 R 510 R

P_c 3183 P_c^2 10,130

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	3583	2445	5977	4153
2	1997	2322	5393	4737
3	1711	2174	4726	5404
4	1109	2009	4037	6093
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.6626$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.6626$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3006$

Absolute Open Flow 3,006 Mcfd @ 15.025 Angle of Slope θ 45.0° Slope, n 1.0000

Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	T. J. DIXON	T. J. DIXON	