NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Revised 2-12-69

Type Test: [X] Initial [ ] Annual [ ] Special	Test Date: 4-27-70			
Company: Continental Oil Company	Connection: El Paso Natural Gas Company			
Pool: Undesignated Drinkard	Formation: SEMU Berger		Unit:	
Completion Date: 12-25-69	Total Depth:	Plug Back TD: 7250	Elevation: 3547 DF	Farm or Lease Name: SEMU Berger
Csg. Size: 7" / Wt.: 23 / d: / Set At: 8000		Perforations: From 6761 To 6885		Well No.: 21
Tbg. Size: 2 3/8 / Wt.: 4.7 / d: / Set At: 6694		Perforations: From 6610 To 6613		Unit: O / Sec.: 19 / Twp.: 20 / Rge.: 38
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: G. O. Dual		Packer Set At: 6389		County: Lee
Producing Thru: Tbg.	Reservoir Temp. °F: @	Mean Annual Temp. °F:	Baro. Press. – P_a:	State: New Mexico

L	H	G_g	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
		Assumed .650					X	Flg.

NO.	FLOW DATA: Prover Line Size x Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI					2252	60			
1.	4 x 1.250	143	68.89	74	1102	86			24
2.	4 x 1.250	140	44.89	67	1320	72			24
3.	4 x 1.250	135	21.16	61	1705	67			24
4.	4 x 1.250	145	9.00	60	1822	61			24
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	7.483	103.73	156.2	.9868	1.240	1.014	953.1
2.	7.483	82.93	153.2	.9933	1.240	1.015	775.8
3.	7.483	56.00	148.2	.9990	1.240	1.015	526.9
4.	7.483	37.73	158.2	1.000	1.240	1.016	355.6
5.							

NO.	P_t	Temp. °R	T_f	Z
1.	.23	534	1.42	.972
2.	.23	527	1.41	.971
3.	.22	521	1.40	.971
4.	.24	520	1.39	.968
5.				

Gas Liquid Hydrocarbon Ratio: 524.2 Mcf/bbl.

A.P.I. Gravity of Liquid Hydrocarbons: 51.0 Deg.

Specific Gravity Separator Gas: .650 (Assumed) / xxxxxxxxxx

Specific Gravity Flowing Fluid: xxxxx / .656

Critical Pressure: 670 P.S.I.A. / 670 P.S.I.A.

Critical Temperature: 375 R / 375 R

P_c 2265.2 P_c^2 5131.1

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1			1285.4	3744.7
2			1857.0	3274.0
3			2959.8	2171.3
4			3337.1	1794.0
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.335$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.335$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1,286$

Absolute Open Flow: 1,286 Mcfd @ 15.025 | Angle of Slope θ: 45 | Slope, n: 1.000

Remarks: Wellhead Potential = 1,200 MCF/D 5.00 bbl. of 51.0 @ 60° Fluid

Wellhead slope Nt - 1.000 throughout test.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	J. B. Murray	J. B. Murray	