NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

CONFIDENTIAL

Type Test: [X] Initial [ ] Annual [ ] Special		Test Date: 1-8-86	
Company: Nearburg Producing Co.	Connection: To Air		
Pool: Und. S.E. Lea	Formation: Morrow		Unit:
Completion Date: 1-4-86	Total Depth: 13,968'	Plug Back TD: 13,557'	Elevation: 3680 G.L.
Farm or Lease Name: Hot Tamale State			
Csg. Size: 5½" / Wt. / d / Set At: 13,968'	Perforations: From 13,478 To 13,482		Well No.: 1
Tbg. Size: 2 7/8" / Wt. / d / Set At: 12,743'	Perforations: From Open-Ended		Unit: A / Sec.: 34 / Twp.: 20S / Rge.: 35E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single	Packer Set At: 12,743'		County: Lea
Producing Thru: Tubing	Reservoir Temp. °F: 128° @ 13,478	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
13,478'	13,478'	.6280	.474	.309				Flange

FLOW DATA / TUBING DATA / CASING DATA

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI							2630		PKR	CHOKE	24 Hrs.
1.	4.026	X	1.250	510	5"	84°	2270	75°		4/64	60 Min.
2.	4.026	X	1.250	510	8	90	1880	74		6/64	90
3.	4.026	X	1.250	520	14	92	1290	74		9/64	60
4.	4.026	X	1.250	520	25	85	930	74		14/64	45
5.	4.026	X	1.250	520	38	82	750	74		23/64	30 Min.

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	6.031	51.146	523.2	.9777	1.262	1.041	396.2
2.	6.031	64.696	523.2	.9723	1.262	1.041	498.4
3.	6.031	86.399	533.2	.9706	1.262	1.042	665.1
4.	6.031	115.456	533.2	.9768	1.262	1.042	894.4
5.	6.031	142.343	533.2	.9795	1.262	1.042	1105.8

NO.	P_t	Temp. °R	T_r	Z
1	.777	544	1.495	.922
2.	.777	550	1.511	.922
3.	.792	552	1.516	.921
4.	.792	545	1.497	.921
5.	.792	542	1.489	.921

Gas Liquid Hydrocarbon Ratio: 51.2 @ 60° Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: ____ Deg.
Specific Gravity Separator Gas: .6280 (XXXXXXXXX)
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 673 P.S.I.A. ____ P.S.I.A.
Critical Temperature: 364 R ____ R

P_c 4401 P_c^2 19368.8

NO	P_t^2	P_w	R_w^2	$P_c^2 - R_w^2$
1		4176	17438.9	1929.9
2		4000	16000	3368.8
3		3658	13381	5987.8
4		3401	11566.8	7802
5		3343	11175.7	8193.1

(1) $\frac{P_c^2}{P_c^2 - R_w^2} = 19368.8$ (2) $\left[\frac{P_c^2}{P_c^2 - R_w^2}\right]^n = 2.364$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - R_w^2}\right]^n = 2614.2$

Absolute Open Flow: 2614.2 Mcfd @ 15.025 Angle of Slope @: 45° Slope, n: 1.000

Remarks: Calculated ffom known BHP using Kuster Gauge 5321 Well also made 20.1 Bbls. of condensate. 51.2 @ 60° during test.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	W.S.	J.D.	J.D.