NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 9-1-65

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [X] Initial FOUR POINT [ ] Annual [ ] Special			Test Date: 1-14-82	RECEIVED 1980 FNL
Company: THRESHOLD Development Co.	Connection: AIR NEW WELL			FEB 22 1982 1980 FWL
Pool: ~~UNDESIGNATED~~ Turkey Track Morrow	Formation: MORROW			Unit: F — O. C. D. ARTESIA, OFFICE
Completion Date: 1-11-82	Total Depth: 11,550	Plug Back TD: 11,464	Elevation: 3394 KB	Farm or Lease Name: CONOCO "7" State
Csg. Size: 5.500 / Wt.: 17.0 / d: 4.892 / Set At: ~~11,464~~ 11,533		Perforations: From 11,138 To 11,166		Well No.: 10
Tbg. Size: 2.375 / Wt.: 4.70 / d: 1.995 / Set At: ~~11,109~~ 11,078		Perforations: From OPEN To ENDED		Unit: F / Sec.: 7 / Twp.: 19S / Rge.: 29E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE		Packer Set At: 11,078		County: EDDY
Producing Thru: TUBING	Reservoir Temp. °F: 214 @ 11,152	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
11,138	11,138	.646	.745	.684			4"	FLANGE

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					3258		4420		66.5 HR.
1.	4.000 X .750	420	14.0	62	3057	74	4161		1
2.	4.000 X .750	420	24.0	69	2938	70	4020		1
3.	4.000 X .750	430	37.0	66	2750	74	3794		1
4.	4.000 X 750	450	71.0	59	2400	58	3361		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	2.7290	77.88	433.2	.9981	1.2442	1.0414	275
2.	2.7290	101.96	433.2	.9915	1.2442	1.0414	357
3.	2.7290	128.6	433.2	.9943	1.2442	1.0414	450
4.	2.7290	181.35	463.2	1.0010	1.2442	1.0414	645
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	.64	522	1.42	.922
2.	.64	529	1.44	.926
3.	.66	526	1.43	.922
4.	.69	519	1.41	.914
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas .6465 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX .7434
Critical Pressure 672 P.S.I.A. _____ P.S.I.A.
Critical Temperature 368 R _____ R

P_c 4433.2 P_c^2 19653.2

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		4174.2	17423.9	2229.0
2		4033.2	16266.7	3387.0
3		3807.2	14494.8	5158.0
4		3374.2	11385.2	8268.0
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.3770$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.7591$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1134.6$

Absolute Open Flow 1,134.6 Mcfd @ 15.025 | Angle of Slope θ 56.9 | Slope, n .6523

Remarks: BOTTOM HOLE PRESSURES MEASURED WITH AMERADA PRESSURE GUAGES.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	RICHARD TOWNLEY	BENNETT-CATHEY	