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: 8-9-78	
Company: Odessa Natural Corp.			Connection: Waiting on pipeline		
Pool: Ballard P.C.			Formation: Pictured Cliffs		Unit
Completion Date: 7-24-78	Total Depth: 3395'		Plug Back TD: 3322'	Elevation: 7291'KB	Farm or Lease Name: Jicarilla Joint Venture "PC"
Csg. Size: 4.500 / Wt.: 10.50 / d: 4.052 / Set At: 3376			Perforations: From 3158 To 3192		Well No.: 104
Tbg. Size: 1.660 / Wt.: 2.40 / d: 1.380 / Set At: 3128			Perforations: From Open To Ended		Unit: F / Sec.: 4 / Twp.: 23N / Rge.: -3W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: None		County: Rio Arriba
Producing Thru: Tubing	Reservoir Temp. °F: 73 @ 3395		Mean Annual Temp. °F: 60	Baro. Press. – P_a: 12.0	State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
3128	3128	0.600	—	—	—	—	—	—

	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									
1.	3/4" THC				930		940		8 days
2.					57	60	450		3 hrs
3.									
4.									
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	12.3650		57	1.0000	1.0000	1.0000	853
2.							
3.							
4.							
5.							

NO.	P_r	Temp. °R	T_r	Z
1				
2.				
3.				
4.				
5.				

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

P_c 952 P_c^2 906,304

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		462	213,444	692,860
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.3080$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.2584$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1,072$

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OIL CON. COM.
DIST. 3

Absolute Open Flow 1,072 Mcfd @ 15.025 Angle of Slope θ _____ Slope, 0.85

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Roger McCown	Ewell N. Walsh	