NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

Form C-122
Revised 9-1-65

RECEIVED
AUG 7 1985
OIL CON. DIV.
DIST 3

Type Test: [X] Initial [ ] Annual [ ] Special

Test Date: 8-2-85

Company: El Paso Natural Gas

Connection:

Pool: Basin

Formation: Dakota

Unit:

Completion Date	Total Depth	Plug Back TD	Elevation	Farm or Lease Name
8-2-85	6780	6763	6665 GR	Huerfano Unit

Csg. Size	Wt.	d	Set At	Perforations	Well No.
4.500	10.5	4.052	6780	From 6511 To 6637	#166E

Tbg. Size	Wt.	d	Set At	Perforations	Unit	Sec.	Twp.	Rge.
2.375	4.7	1.995	6620	From To	L	31	26	09

Type Well – Single – Bradenhead – G.G. or G.O. Multiple	Packer Set At	County
Single	None	San Juan

Producing Thru	Reservoir Temp. °F	Mean Annual Temp. °F	Baro. Press. – P_a	State
Tbg.	@		12	New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
		.700						

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							924		1684		7 Days
1.		.750		341		87	341		792		3 Hrs.
2.											
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	12.365		353	.9750	.9258	1.036	4082
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 1696 P_c^2 2876416

NO	P_t	P_w	P_w^2	$P_c^2 - P_w^2$
1		804	646416	2230000
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{2876416}{2230000}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.2103$

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 4940$

Absolute Open Flow 4940 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: Produced heavy spary oil & water throughout test. Gas vented during test = 649 MCF.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Joe Gillentine	Ed Mabe	kld