NEW MEXICO OIL CONSERVATION COMMSSION

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: 10-30-79	
Company: Southland Royalty Company	Connection: Southern Union Gathering			
Pool: Basin	Formation: Dakota		Unit	
Completion Date: 10-23-79	Total Depth: 7704'	Plug Back TD: 7626'	Elevation: 6375' GR	Farm or Lease Name: Dusenberry
Csg. Size: 7.625 / 5.500 — Wt.: 26.40# / 15.5&17# — d: 6.969 / 4.950 — Set At: 5134 / 4910-7658		Perforations: From 7436 To 7626		Well No.: 3-E
Tbg. Size: 2.0625 — Wt.: 3.25# — d: 1.750 — Set At: 7612		Perforations: From ---- To ---		Unit: H — Sec.: 1 — Twp.: 31N — Rge.: 12W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: G. G. Multiple		Packer Set At: 6968'		County: San Juan
Producing Thru: Tbg	Reservoir Temp. °F:	Mean Annual Temp. °F:	Baro. Press. – P_a: 12.2	State: New Mexico
L:	H:	Gg: .700	% CO_2:	% N_2:
% H_2S:	Prover:	Meter Run:	Taps:	

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							1353				
1.	2"	X	3/4"				98				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		110.2	1.0000	.9258	1.0000	1262
2.							
3.							
4.							
5.							

NO.	P_t	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 1365.2 P_c^2 1,863,771

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		110.2	12,144	1,851,627
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0066$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0049$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1268$

Absolute Open Flow 1268 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Dick Irvin	James Smith	