STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED
JUL 05 1985

Type Test: [X] Initial [ ] Annual [ ] Special			Test Date: 6/28/85	
Company: SOUTHERN UNION EXPLORATION CO.		Connection: EL PASO NATURAL GAS		
Pool: BASIN DAKOTA		Formation: DAKOTA		Unit: E
Completion Date: 6/28/85	Total Depth: 6885'	Plug Back TD: 6860'	Elevation: 6514 G.L.	Farm or Lease Name: Nickson
Csg. Size: 4½" / Wt.: 10.5# / 11.6# / d: 4.000 / Set At: 6885		Perforations: From 6742 To 6816		Well No.: 13-E
Tbg. Size: 2 1/16 / Wt.: 3.25 / d: 1.750 / Set At: 6816		Perforations: From To		Unit: E / Sec.: 26 / Twp.: 26 / Rge.: 8
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: N/A		County: San Juan
Producing Thru: Tbg	Reservoir Temp. °F: 0	Mean Annual Temp. °F:	Baro. Press. – P_a:	State: New Mexico

L	H	Gg	% 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	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI				64	1800		1845		7 days
1.	.750				86		635		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	12.3650		98	.9962	.9463	1.009	1153
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 .670 Est XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 1845 P_c^2 3404025

NO	P_t	P_w	P_w^2	$P_c^2 - P_w^2$
1		647	418609	2985416
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1140$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1103$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1272$

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

Remarks: Well unloaded one big slug of oil. Then blew light to medium mist of condensate. Half way thru test well flowed intermittent mist of water and oil. At end of test well was flowing light mist of water and oil.

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Hans H Hudgins	Hans H Hudgins	