

**NEW MEXICO OIL CONSERVATION COMMISSION
MULTI-POINT BACK PRESSURE TEST FOR GAS WELL**

Form C-122
Revised 12-1-55

Pool Basin Dakota			Formation Dakota			County San Juan				
Initial D		Annual		Special		Date of Test 8-9-65				
Company Southern Union Production				Lease Hudson "D" Federal Com.			Well No. 1			
Unit 0	Sec. 23	Twp. 30 North	Range 13 West		Purchaser El Paso Natural Gas Co.					
Casing 1-1/2"	Wt. 10.50	I.D. 1.052	Set at 6560		Perf. 6336		To 6408			
Tubing 1-1/2"	Wt. 2.90	I.D. 1.000	Set at 6464		Perf. 6456		To 6464			
Gas Pay:	From 6336	To 6408	L 1256	G .700	GL 1639	Bar. Press. 12.0				
Producing Through:		Casing	Tubing XX		Type Well - Single - Braden head - G.G. or G.O. Dual Single Gas					
Date of Completion 8-8-65		Packer			Reservoir Temp.					
OBSERVED DATA										
Tested Through: Prover ☐ Choke ☒ Meter ☐						Type of Taps				
FLOW DATA						TUBING DATA		CASING DATA		DURATION OF FLOW HR.
No.	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig.	Diff. h _w	Temp. °F.	Press. psig.	Temp. °F.	Press. psig.	Temp. °F.	
1.	2"	1/2"				1896 342	76°	1906 1239		3 days 3 hrs.
2.										
3.										
4.										
5.										
FLOW CALCULATIONS										
No.	Coefficient (24 Hour)	$\sqrt{h_w P_f}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCF PD @ 15.025 psia			
1.	12.3650		154	.7850	.7258	1.038	13143			
2.										
3.										
4.										
5.										
PRESSURE CALCULATIONS										
Gas Liquid Hydrocarbon Ratio _____ cf/bbl.					Specific Gravity Separator Gas _____					
Gravity of Liquid Hydrocarbons _____ deg.					Specific Gravity Flowing Fluid _____					
F _c _____ (1-e ^{-S})					P _c 1917 P _c ² 3674249					
No.	$\frac{P_w}{P_t}$ psia	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-S})	P _w ²	P _c ² - P _w ²	Cal P _w	$\frac{P_w}{P_c}$	
1.						154500	2109284		.653	
2.										
3.										
4.										
5.										

ABSOLUTE POTENTIAL: **6281** MCFPD; n **.75**

COMPANY **Southern Union Production Company** WITNESSED **Herman Kohnally**
P.O. Box 808

ADDRESS **Farmington, New Mexico** COMPANY **El Paso Natural Gas Company**

AGENT AND TITLE **Vernie Rockhold - Engineer** (3) cc: **New Mexico O.C.C.** cc: (1) **N.P.N.G. Co.**
Original Signed By **VERNE ROCKHOLD** (1) cc: **Mr. Paul J. Glote** **El Paso, Texas**
(1) cc: **Mr. H. L. Kindrick** cc: (1) **File**
Farmington, N.M.