

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 I		Annual		Date of Test 9/21/65	
Company Southern Union Production Co.		Lease Angel Peak "B"		Well No. 25	
Unit N	Sec. 24	Twp. 28 North	Range 11 West	Purchaser El Paso Natural Gas Company	
Casing 4-1/2", J-55	Wt. 10.50#	I.D. 4-1/2"	Set at 6511	Perf. 6420	To 6230
Tubing 1-1/2", JGW	Wt. 2.90#	I.D. 1-1/2"	Set at 6340	Perf. 6340	To 6332
Gas Pay:	From 6420	To 6230	L 6332	G .700	GL 4432
				Bar. Press. 12.0	
Producing Through:		Casing	Tubing Tubing	Type Well - Single - Braden head - G.G. or G.O. Dual Single	
Date of Completion 9-13-65		Packer None		Reservoir Temp.	

OBSERVED DATA

Tested Through:		Prover ☐	Choke ☒	Meter ☐	Type of Taps	
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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	3/4				1708		1689		8 days
2.						327	79	1172		3 hrs.
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24 Hour)	$\sqrt{h_w P_t}$	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		339	0.9822	0.9258	1.036	3949
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

G_L 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 **1720** P_c² **2,958,400**

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.	1184					1,401,856	1556,544		
2.									
3.									
4.									
5.									

ABSOLUTE POTENTIAL: **6392** MCFPD; n **.75**

COMPANY **Southern Union Production Company** WITNESSED **Herman McAnally**
 P. O. Box 808
 ADDRESS **Farmington, New Mexico** COMPANY **El Paso Natural Gas Company**
 AGENT AND TITLE **Benny E. Bechtol**
Benny E. Bechtol - Petroleum Engineer

