

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Angel Peak Formation Dakota County San Juan
Initial XX Annual _____ Special _____ Date of Test 11-22-60
Company Sunset Intr. Petr. Corp. Lease Kutz Federal Well No. 12-21
Unit _____ Sec. 12²¹ Twp. 28N Rge. 10W Purchaser Southern Union Gas Co.
Casing 4 1/2" Wt. 11.6 I.D. 4" Set at 6717 Perf. 6570 To 6636
Tubing 2" EUE Wt. 4.7 I.D. 2" Set at 6627 Perf. 6621 To 6627
Gas Pay: From 6494 To 6702 L _____ xG _____ -GL _____ Bar.Press. 12
Producing Thru: Casing _____ Tubing XXX Type Well Single Gas
Single-Bradenhead-G. G. or G.O. Dual _____
Date of Completion: 11-21-60 Packer None Reservoir Temp. 102° F

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter)

Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Choke) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						2000		2000		
1.										
2.										
3.		3/4"	728		88°			1540	182	3 Hours
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{wpf}}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.							
2.							
3.	12.365		740	.9741	.9258	1.079	Q=8904
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c _____ (1-e^{-s})

Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 2012 P_c 4048

No.	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	P _w P _c
1.									
2.									
3.							1639.44	1552	
4.									
5.									

Absolute Potential: 17,535MCFPD; n .75COMPANY Sunset Intr. Petr. Corp.ADDRESS 5 th Floor Midland Bldg. 444-17 th Street Denver 2, Colo.AGENT and TITLE Thomas F. Popp Thos. F. Popp Dist. Engr.WITNESSED Paul Marsh Paul MarshCOMPANY Marsh, Inc. Marsh Inc. Farmington

REMARKS

