

NEW MEXICO OIL CONSERVATION COMMISSION

Form O-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Wildcat Formation Pictured Cliffs County Sandoval

Initial x Annual _____ Special _____ Date of Test 7-24-56

Company Caswell Silver Lease Jicarilla Tribal Contract Well No. 1-33
No. 54, Tract No. 104

Unit NM/4 Sec. 33 Twp. 23N Rge. 3W Purchaser none

Casing 4 1/2" Wt. 11.6# I.D. 4.0 Set at 3002.68' Perf. 2962' To 2952' (40 shots)

Tubing 2 3/8" Wt. 3.71# I.D. 2.067 Set at 2964 Perf. open end To _____

Gas Pay. from 2962 To 2952 L 2957 xG .65 -GL 1922.05 Bar.Press. 11.1

Producing Thru: Casing _____ Tubing x Type Well single - gas

Date of Completion: 6-24-56 Packer none Single-Bradenhead-G. G. or G.O. Dual
 Reservoir Temp. 100°

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter) Type Taps _____

No.	Flow Data			Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	
SI						766	766	
1.		3/4"				91	80°	3 hrs.
2.								
3.								
4.								
5.								

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_w Q}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	14.1605		102.1	.9813	.9608	1.0	
2.							
3.							
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 _____
 F_c 777.1 P_c 6038.84

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	F _c ² -P _w ²	Cal. F _w	$\frac{P_w}{F_c}$
1.						557.43	5481.41		.2909
2.									
3.									
4.									
5.									

Absolute Potential: 1,480 MCFPD; n .85

COMPANY Caswell Silver

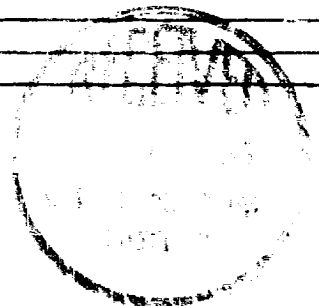
ADDRESS 323 Simms Building, Albuquerque, New Mexico

AGENT and TITLE Caswell Silver - Operator

WITNESSED _____

COMPANY Independent Operator

REMARKS



INSTRUCTIONS

This form is to be used for reporting multi-point back pressure tests on gas wells in the State, except those on which special orders are applicable. Three copies of this form and the back pressure curve shall be filed with the Commission at Box 871, Santa Fe.

The log log paper used for plotting the back pressure curve shall be of at least three inch cycles.

NOMENCLATURE

- Q = Actual rate of flow at end of flow period at W. H. working pressure (P_w).
MCF/da. @ 15.025 psia and 60° F.
- P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
psia
- P_w = Static wellhead working pressure as determined at the end of flow period.
(Casing if flowing thru tubing, tubing if flowing thru casing.) psia
- P_t = Flowing wellhead pressure (tubing if flowing through tubing, casing if
flowing through casing.) psia
- P_f = Meter pressure, psia.
- h_w = Differential meter pressure, inches water.
- F_g = Gravity correction factor.
- F_t = Flowing temperature correction factor.
- F_{pv} = Supercompressability factor.
- n = Slope of back pressure curve.

Note: If P_w cannot be taken because of manner of completion or condition of well, then P_w must be calculated by adding the pressure drop due to friction within the flow string to P_t .

OIL CONSERVATION COMMISSION	
APPROPRIATE OFFICE	
Well Name	3
County	
Section	
Township	
Range	
Block	
Tract	
File	1
	✓