

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

OBSERVED DATA

[illegible]

FLOW CALCULATIONS

FLOW CORRECTIONS							
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.							5501
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl. Specific Gravity Separator Gas _____
 Gravity of Liquid Hydrocarbons _____ deg. Specific Gravity Flowing Fluid _____
 P_c _____ (1-e⁻⁸) P_c **2010** P_c **4040**

[illegible]

Absolute Potential: 8114 MCFPD; n .75 1.475

COMPANY Sunshine Royalty Co.

ADDRESS **Box 5669, Roswell, N.M.**

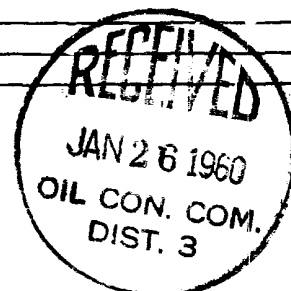
AGENT and TITLE **Y. A. Dugan, Consulting Engineer**

WITNESSED

COMPANY

REMARKS

Well produced 17.78 bbls. distillate during test.



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 .

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NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL POTENTIAL TEST-DATA SHEET

This form must be used for reporting all pitot tube tests made in the State. It is particularly important that it be used for reporting Initial Potential Tests in the San Juan Basin as prescribed by Order No. R-333 and by the New Mexico Oil Conservation Commission Manual of Tables and Procedure for Initial Potential (Pitot Tube) Tests.

POOL Undesignated FORMATION Dakota
COUNTY San Juan DATE WELL TESTED January 15, 1960

Operator Sunshine Royalty Co. Lease E.M. Elliott Unit Well No. #1-B
1/4 Section NW 1/4 Unit Letter B Sec. 3 Twp. 29N Rge. 13W
Casing: 5 1/2" "O.D. Set At 6281 Tubing 2 3/8" "WT. 4.7 Set At 6100
Pay Zone: From 6074 to 6200 Gas Gravity: Meas. _____ Est. _____
Tested Through: Casing _____ Tubing X
Test Nipple 3.068 I.D. Type of Gauge Used Monometer
(Spring) (Monometer)

OBSERVED DATA

Shut In Pressure: Casing 1998 Tubing: 1995 S.I. Period 8 days
Time Well Opened: 11:00 A.M. Time Well Gauged: 2:00 P.M.
Impact Pressure 27" Hg - 3" line

Volume (Table I). 5085 (a)
Multiplier for Pipe or Casing (Table II). 1.046 (b)
Multiplier for Flowing Temp. (Table III). 28° F 1.0323 (c)
Multiplier for SP. Gravity (Table IV). 650 1.000 (d)
ve. Barometer Pressure at Wellhead (Table V). 12.0
Multiplier for Barometric Pressure (Table VI) 1.000 (e)
Initial Potential, Mcf/24 hrs. (a) x (b) x (c) x (d) x (e) = 5501

nessed by Leon Cornelius Tested by: T. A. Dugan
pany: SUNSHINE ROYALTY COMPANY Company: T. A. Dugan
e: _____ Title: Consulting Engineer