

1 Standard
1 Bedford Wynn
1 File

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Undesignated Formation Dakota County Rio Arriba
Initial X Annual _____ Special _____ Date of Test 12-28-59
Company Val R. Reese & Assoc., Inc. Lease Sperling Well No. 1-30
Unit I Sec. 30 Twp. 24N Rge. 6W Purchaser _____
Casing 7" Wt. 26# & 23# I.D. 6.276 Set at 6524 Perf. 6402 To 6454
Tubing 2-3/8 Wt. 4.70 I.D. 1.995 Set at _____ Perf. Open Ended To _____
Gas Pay: From 6402 To 6454 L 6407 xG .630 -GL 4036 Bar.Press. _____
Producing Thru: Casing _____ Tubing X Type Well G.O. Dual
Date of Completion: 12-28-59 Packer 6370 Reservoir Temp. 58

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.	Press. psig	Temp. °F.	
SI						1994				
1.										
2.		3/4"	45		58					3 hours
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-MCFPD @ 15.025 psia
1.							
2.							
3.	12.365		57	1.0019	.9759	1.007	694
4.							
5.							

PRESSURE CALCULATIONS

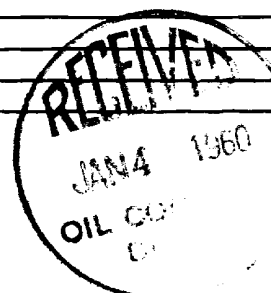
Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
P_c 9.402 (1-e^{-s}) .254
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 2006 P_c 4024

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.	57	3.25	6.525	42.4	10.8	14.2	4009.8		1.00354
3.									
4.									
5.									

Absolute Potential: 696 MCFPD; n .75 1.0026

COMPANY Val R. Reese & Assoc., Inc.
ADDRESS Lobby of Simms Bldg., Albuquerque, New Mexico
AGENT and TITLE Jan L. Jacob Geologist
WITNESSED _____
COMPANY _____

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	
AZTEC DISTRICT OFFICE	
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6. Miscellaneous	
7. Transmissions	
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VAL R. REESE & ASSOCIATES, INC.

Company Val R. Reese & Assoc., Inc.Lease Sperling Well No. 1-30Dakota tubing 1994Date of Test 12-28-59Shut in Pressure (PSIG): Gallup Tubing 1460 Gallup Casing 1449 S. I. Period 7 DaysSize Blow Nipple 3/4" ChokeFlow Through Tubing Working Pressures From None

Time		Pressure	Gallup Tubing	Gallup Casing	Temp
Hours	Minutes		Q (MCFD) 15.025-PSIA-8-00°F	Wellhead Working Pressure (PSIG)	
	15	262	1475	1459	70
	30	125	1475	1459	68
	45	97	1477	1462	65
1	--	83	1477	1461	63
2	--	59	1476	1461	62
3	--	45	1475	1461	58

Start At 8:00 AM End Test At 11:00 AM

Remarks: 0-5 min. fog of water
5-15 heavy slugs water
15-20 heavy fog water w/slugs
20-30 heavy fog water
30-45 heavy fog plus small slugs of water
45-1:10 heavy fog water
1:10-2 hrs. fog of water
2 hrs-3 hrs. heavy mist water small amount distillate

Tested by: T. A. Dugan

Witness: _____