

NM OCC-2
Peppin-1
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File-1

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Blanco Formation Mesaverde County Rio Arriba
Initial X Annual _____ Special _____ Date of Test 6-3-57
Company Northwest Production Corp. Lease "N" Well No. 8-8
Unit M Sec. 8 Twp. 26N Rge. 4W Purchaser Not connected
Casing 5 1/2 Wt. 15.5 I.D. _____ Set at _____ Perf. 5156 To 5770
Tubing 2-3/8 Wt. 4.7 I.D. _____ Set at 7673 Perf. _____ To _____
Gas Pay: From 5156 To 5770 L 5156 xG .650 -GL 3351 Bar. Press. _____
Producing Thru: Casing X Tubing _____ Type Well Dual - Gas - Gas
Date of Completion: May 9, 1957 Packer Yes - 7178.1 Reservoir Temp. _____

OBSERVED DATA

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

No.	Flow Data			Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (8 1/2) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	
SI						2356	1070	SI
1.								
2.		3/4				2362	150	62
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.	14.1605		162	.9981	.9608	1.016	2235
4.							
5.							

PRESSURE CALCULATIONS

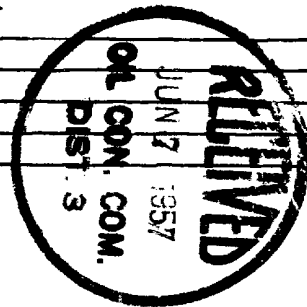
Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c .988 (1-e^{-s}) .216
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 1082 P_c² 1171

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.	162	26.2	2.2	4.8	1.0	27.2	1143.8		1.0238
4.									
5.									

Absolute Potential: 2275 MCFPD; n .75 1.0178

COMPANY Pacific Northwest Pipeline Corp.
ADDRESS 4051 N. Broadway, Farmington, New Mexico
AGENT and TITLE C. R. Wagner, Well Test Engineer
WITNESSED Frank Smith
COMPANY New Mexico Oil Conservation Commission

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 .

DRILLING DEPARTMENT

COMPANY Northwest Production Corp.

LEASE "N" WELL NO. 8-8

DATE OF TEST 6-3-57

SHUT IN PRESSURE (PSIG): TUBING ^{DK} 2356 CASING ^{MV} 1070 S. I. PERIOD 7 DAYS

SIZE BLOW NIPPLE 3/4" Choke (Bureau of Mines)

FLOW THROUGH Casing - MV WORKING PRESSURES FROM Tubing - DK

TIME		CHOKE	Q (MCFD)	WELLHEAD WORKING	TEMP
HOURS	MINUTES	PRESSURE	15.025 PSIA & 60°F	PRESSURE (PSIG)	
	30	350		2359	60
1	0	240		2359	60
	30	194		2360	61
2	0	174		2361	61
	30	159		2361	62
3	0	150		2362	62

START AT: 11:20 am END TEST AT 2:20 pm

REMARKS: Dry

TESTED BY: C. R. Wager

WITNESS: Frank Gandy NM 006

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