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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Tapacito PG Extn Formation Pictured Cliffs County Rio Arriba
Initial XX Annual _____ Special _____ Date of Test 5-21-57
Company Northwest Production Corp Lease "W" Well No. 3-5
Unit L Sec. 5 Twp. 26N Rge. 4W Purchaser Not connected
Casing 5 Wt. 11.5 I.D. _____ Set at 4100 Perf. 4030 To 4098
Tubing 1-1/4 Wt. 2.3 I.D. _____ Set at 4040 Perf. _____ To _____
Gas Pay: From 4030 To 4098 L _____ xG Est .600 GL _____ Bar.Press. _____
Producing Thru: Casing _____ Tubing XX Type Well Single - Gas
Date of Completion: 5-14-57 Packer No Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp. _____

OBSERVED DATA

Tested Through B. H. (XXXXX) (Choke) (XXXXX) Type Taps _____

Flow Data						Tubing Data		Casing Data		Duration of Flow Hr.
No.	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						1000		1000		81
1.										
2.										
3.		3/4				852	56	892		3 hours
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.	<u>14.1609</u>		<u>664</u>	<u>1.0039</u>	<u>.9593</u>	<u>1.083</u>	<u>9,602</u>
4.							
5.							

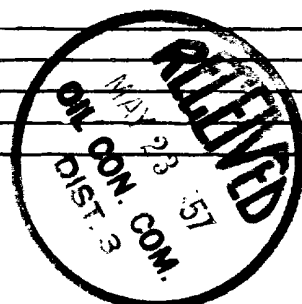
PRESSURE CALCULATIONS

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 1012 P_c 1024

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.	<u>904</u>					<u>817</u>	<u>207</u>		<u>4.95</u>
4.									
5.									

Absolute Potential: 37,392 MCFPD; n .85/3.8938
COMPANY Pacific Northwest Pipeline Corp.
ADDRESS 405 1/2 W. Broadway, Farmington, New Mexico
AGENT and TITLE B. C. Adams, Well Test Engineer
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 .

DRILLING DEPARTMENT

COMPANY **Northwest Production Corporation**

LEASE _____ WELL NO. 3-3

DATE OF TEST **5-21-57**

SHUT IN PRESSURE (PSIG): TUBING 10000 CASING 10000 S. I. PERIOD 7 DAYS

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

FLOW THROUGH Tubing WORKING PRESSURES FROM Casing

[illegible]

START AT 12:25 pm

END TEST AT 3:25 pm

[illegible]

TESTED BY D. C. Adams

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