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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 PC Extn Formation Pictured Cliffs County Rio Arriba
Initial X Annual _____ Special _____ Date of Test 8-15-57
Company Northwest Production Corp. Lease "C" Well No. 8-30
Unit G Sec. 30 Twp. 26N Rge. 4W Purchaser Not connected
Casing 5 Wt. 11.5 I.D. _____ Set at 3413 Perf. 3260 To 3295
Tubing 1 1/2 Wt. 2.3 I.D. _____ Set at 3283 Perf. _____ To _____
Gas Pay: From 3260 To 3295 L _____ xG .650 -GL _____ Bar.Press. 12
Producing Thru: Casing _____ Tubing X Type Well Single
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 8-3-57 Packer _____ Reservoir Temp. _____

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter) 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						1059		1055		81
1.		3/4	171		50	171	50	858		3 hrs
2.										
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.	12.3650		183	1.0098	.9608	1.018	2235
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 _____
P_c 1071 P_c 1147.0

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.						758.9	390.1		2.94
2.									
3.									
4.									
5.									

Absolute Potential: 5,590 MCFPD; n .85/2.5009
COMPANY Pacific Northwest Pipeline Corp.
ADDRESS 405 1/2 W. Broadway, Farmington, New Mexico
AGENT and TITLE C.R. Wagner, Well Test Engineer
WITNESSED _____
COMPANY _____

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} = Supercompressibility 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 "C" WELL NO. 8-30

DATE OF TEST **8-15-57**

SHUT IN PRESSURE (PSIG): TUBING 1059 CASING 1055 S. I. PERIOD 11 DAYS

SIZE BLOW NIPPLE 3/4" T-C Choke

FLOW THROUGH Tubing WORKING PRESSURES FROM Casing

[illegible]

START AT: 11:00 AM END TEST AT 2:00 PM

REMARKS: Very light fog of H₂O

RELEASED
AUG 22 1967
OIL CON. DEPT.
RICHMOND

TESTED BY: **C. R. Wagner**

WITNESS:

OIL CONSERVATION COMMISSION		
AZTEC DISTRICT OFFICE		
No. Copies Received	2	
DISPOSITION		
Operator	1	
Inspector	1	
President		
Manager		
U.S.G.P.	1	
Transporter		
File	1	✓