

NM OCC-3
Truby-1
Peppin-1
File-1

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Wildcat Formation Pictured Cliffs County San Juan
Initial XX Annual _____ Special _____ Date of Test 4-4-57
Company Northwest Production Corp. Lease Blanco 30-12 Well No. 11-9
Unit G .Sec. 9 Twp. 30N Rge. 12W Purchaser Not connected
Casing 4 1/2 Wt. 9.5 I.D. _____ Set at 2105 Perf. 2002 To 2022
Tubing 1 1/2 Wt. 2.3 I.D. _____ Set at 1997 Perf. _____ To _____
Gas Pay: From 2002 To 2022 L _____ xG .650 -GL _____ Bar.Press. 12
Producing Thru: Casing _____ Tubing XX Type Well Single
Date of Completion: 3-25-57 Packer No Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp. _____

OBSERVED DATA

Tested Through (PEPPER) (Choke) (PEPPER) 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										
1.		<u>3/4"</u>	<u>54</u>		<u>64</u>	<u>636</u>	<u>64</u>	<u>636</u>		<u>87</u>
2.						<u>54</u>		<u>420</u>		<u>3 hours</u>
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.	<u>14.1605</u>		<u>66</u>	<u>.9962</u>	<u>.9608</u>	<u>1.000</u>	<u>895</u>
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 648 P_c² 419.9

No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	<u>432</u> P _w ²	P _c ² -P _w ²	Cal. P _w	P _w P _c
1.						<u>186.6</u>	<u>233.3</u>		<u>1.80</u>
2.									
3.									
4.									
5.									

Absolute Potential: 1,391 MCFPD; n .85/1.5539
COMPANY Pacific Northwest Pipeline Corp.
ADDRESS 405 1/2 West Broadway, Farmington, New Mexico
AGENT AND TITLE C. R. Wagner - 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 Corp.

LEASE Blanco 30-12 WELL NO. 11-9

DATE OF TEST 4-4-57

SHUT IN PRESSURE (PSIG): TUBING 636 CASING 636 S. I. PERIOD 7 DAYS

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

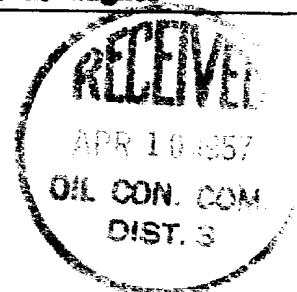
FLOW THROUGH Tubing WORKING PRESSURES FROM Casing

TIME		PRESSURE	Q (MCFD) 15.025 PSIA & 60°F	WELLHEAD WORKING PRESSURE (PSIG)	TEMP
HOURS	MINUTES				
	34.5	70		465	62
	41.5	67		457	62
	50	65		453	63
1	0	63		450	63
	12	61		445	63
	26.5	60		440	63
	44	59		436	63
2	5	58		432	63
	30	"Finding location to call KRP 607 on Radio"			
3	0	54		420	64

START AT 9:15 am END TEST AT 12:15 pm

REMARKS: Wet with H₂O through out test

TESTED BY C. R. Wagner



OIL CONSERVATION COMMISSION		
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File	<u>1</u>	<input checked="" type="checkbox"/>