NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool [illegible] Formation Pictured Cliffs County San Juan

Initial X Annual [ ] Special [ ] Date of Test 7/21/60

Company [illegible] Lease Tidal Oil Company Well No. 1-Tidal

Unit I Sec. 9 Twp. 27N Rge. 12W Purchaser El Paso Natural Gas Company

Casing 3 5/8 Wt. 24 I.D. 8.097 Set at 1453 Perf. 1354 To 1362

Tubing 1 1/4 Wt. [ ] I.D. [ ] Set at 1366 Perf. 1366 To [ ]

Gas Pay: From 1354 To 1362 L 1366 xG 0.650 -GL 888 Bar.Press. 12.0

Producing Thru: Casing [ ] Tubing X Type Well Single
Single-Bradenhead-G. G. or G.O. Dual

Date of Completion: 1/14/60 Packer No Reservoir Temp. [ ]

OBSERVED DATA

Tested Through ~~(Prover)~~ (Choke) ~~(Meter)~~ Type Taps [ ]

No.	Flow Data (Prover) (Line) Size	Flow Data (Choke) (~~Orifice~~) Size	Flow Data Press. psig	Flow Data Diff. h_w	Flow Data Temp. °F.	Tubing Data Press. psig	Tubing Data Temp. °F.	Casing Data Press. psig	Casing Data Temp. °F.	Duration of Flow Hr.
SI						366		371		1
1.										
2.										
3.		3/4	18		65			106		3 hrs.
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		30	0.9952	0.9608	1.000	353
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 383 P_c^2 146.689

No.	P_w P_t (psia)	P_t^2	F_cQ	$(F_cQ)^2$	$\frac{(F_cQ)^2}{(1-e^{-s})}$	P_w^2	$P_c^2-P_w^2$	Cal. P_w	$\frac{P_w}{P_c}$
1.									
2.									
3.						13.974	132.715		1.104
4.									
5.									

Absolute Potential: 384 MCFPD; n 0.85/1.0879

COMPANY [illegible]
ADDRESS 445 Petroleum Club Bldg., Denver 2, Colorado
AGENT and TITLE M. B. JONES Morris B. Jones, Consulting Engineer
WITNESSED [illegible]
COMPANY Northwest Production Corp.

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.

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