NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Undesignated PC Formation Pictured Cliffs County Rio Arriba

Initial X Annual _____ Special _____ Date of Test 7/20/60

Company E. L. Fundingsland Lease Werntz-Tidal Well No. 1-4

Unit N Sec. 21 Twp 24N Rge. 1W Purchaser --

Casing 4½ Wt. 9.5 I.D. 4.090 Set at 3144 Perf. 3062 To 3080

Tubing 1½ Wt. 2.30 I.D. 1.380 Set at 3072 Perf. 3072 To --

Gas Pay: From 3062 To 3080 L 3072 xG 0.65 -GL 1997 Bar.Press. 12.0

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

Date of Completion: 7/4/60 Packer -- Reservoir Temp. 107°F

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						880		882		SI
1.										
2.										
3.	2	3/4	196		51			493		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		208	1.0088	0.9608	1.022	2549
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
P_c 24.62 $(1-e^{-s})$ 0.135

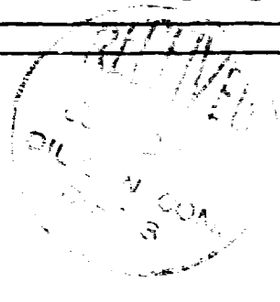
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 994 P_c^2 988.036

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.	208	43.264	62.756	3938.32	531.673	255.025	733.011		1.348
4.									
5.									

Absolute Potential: 3,285 MCFPD; n 0.85/1.2889

COMPANY E. L. Fundingsland
ADDRESS 445 Pet. Club Bldg., Denver 2, Colorado
AGENT and TITLE M. B. JONES Morris B. Jones, Consulting 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.

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