NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool [redacted] Formation [redacted] County [redacted]

Initial X Annual _____ Special _____ Date of Test [redacted]

Company [redacted] Lease [redacted] Well No. [redacted] 2

Unit _____ Sec. [redacted] Twp. [redacted] Rge. [redacted] Purchaser _____

Casing 4 1/2 Wt. _____ I.D. _____ Set at _____ Perf. _____ To _____

Tubing 2 3/8 Wt. _____ I.D. _____ Set at [redacted] Perf. _____ To _____

Gas Pay: From [redacted] To [redacted] L _____ xG _____ -GL _____ Bar.Press. _____

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

Date of Completion: _____ Packer _____ Reservoir Temp. _____

OBSERVED DATA

Tested Through [redacted] (Choke) [redacted] [redacted]

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						[redacted]		[redacted]		
1.		[redacted]				[redacted]	[redacted]	[redacted]		[redacted]
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.	[redacted]		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
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 [redacted] P_c^2 [redacted]

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.	[redacted]					[redacted]	[redacted]		[redacted]
2.									
3.									
4.									
5.									

Absolute Potential: [redacted] MCFPD; n [redacted]

COMPANY _____
ADDRESS _____
AGENT and TITLE _____
WITNESSED _____
COMPANY _____

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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.

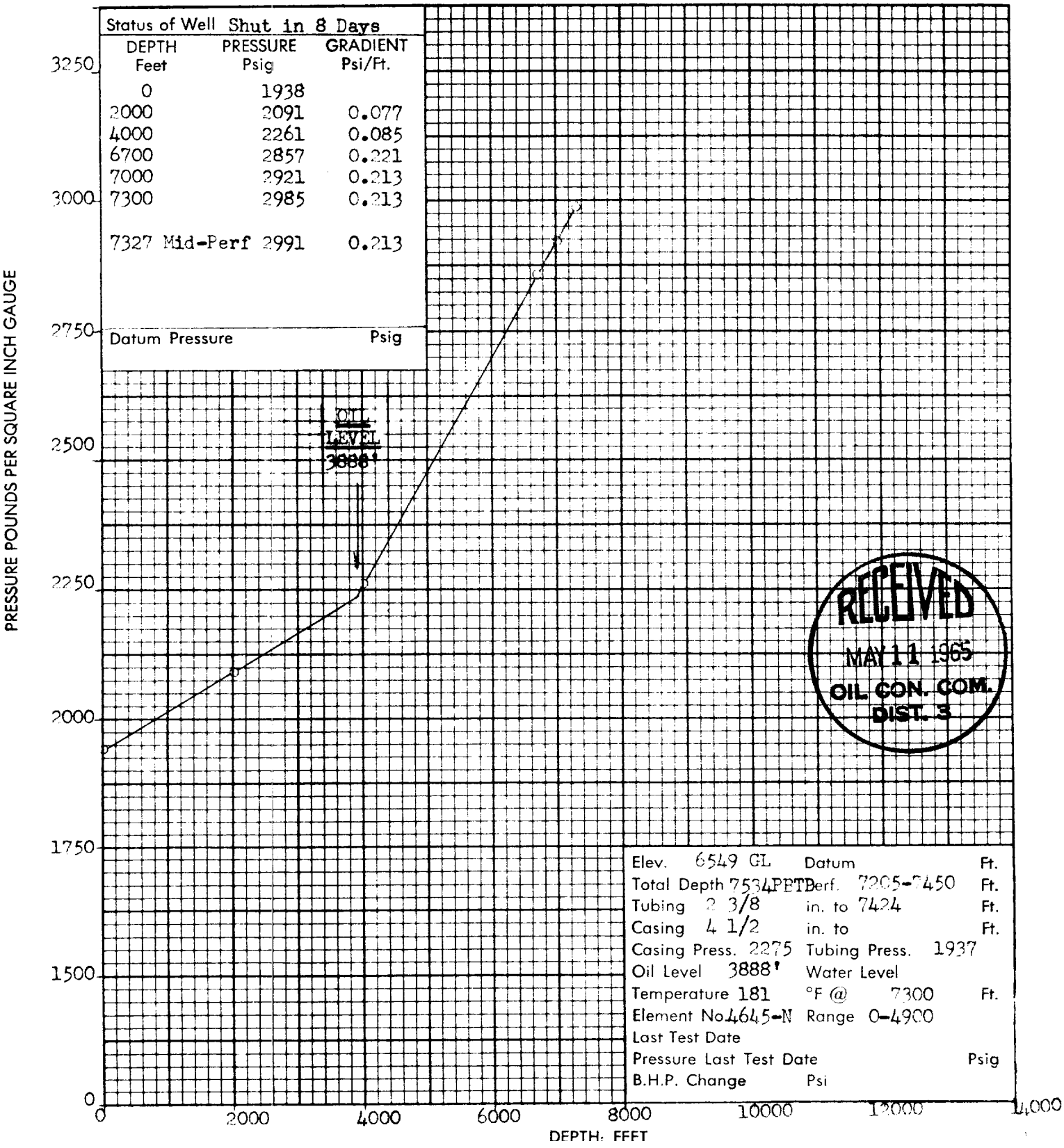
TEFTELLER, INC.
reservoir engineering data
MIDLAND, TEXAS

Company TENNECO OIL COMPANY Lease JICARILLA "B" Well No. 2
Field BASIN DAKOTA County RIO ARRIBA State NEW MEXICO
Formation DAKOTA Test Date FEBRUARY 15, 1965

Status of Well Shut in 8 Days

DEPTH Feet	PRESSURE Psig	GRADIENT Psi/Ft.
0	1938	
2000	2091	0.077
4000	2261	0.085
6700	2857	0.221
7000	2921	0.213
7300	2985	0.213
7327 Mid-Perf	2991	0.213

Datum Pressure Psig



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Elev. 6549 GL Datum Ft.
Total Depth 7534 PBTD Perf. 7205-7450 Ft.
Tubing 2 3/8 in. to 7424 Ft.
Casing 4 1/2 in. to Ft.
Casing Press. 2275 Tubing Press. 1937
Oil Level 3888' Water Level
Temperature 181 °F @ 7300 Ft.
Element No 4645-N Range 0-4900
Last Test Date
Pressure Last Test Date Psig
B.H.P. Change Psi