

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Jalpat

MULTI-POINT DATA PRESSURE SEVERAL FLOWS WELLS

Lea

Revised 12-1-55

Pool _____ Formation X County 5-20/5-24-57

Initial Continental Oil Company Specimen Stevens D-7 Unit Date of Test 1

Company D 7 23 Lease 37 El Paso Nat. Gas Company

Unit 5 1/2 Sec. 14 Twp. 5.012 Rge. 2799 Purchaser 2799 Open Hole 3465

Casing None Wt. _____ I.D. _____ Set at _____ Perf. _____ To _____

Tubing 2887 Wt. _____ I.D. 3465 Set at 2799 Perf. 1833 To 13.2

Gas Pay: From _____ To X L _____ xG _____ -GL _____ Single Bar. Press. _____

Producing Thru: Casing 1-27-49 Tubing None Type Well 90°

Date of Completion: _____ Packer _____ Reservoir Temp. _____

XXXXXX XXXX

OBSERVED DATA

Flange

Tested Through (Prover) (Choke) (Meter) Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. 3.62	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI	4"	.750	630	3.92	78			779		72
1.	4"	.750	558	7.22	79			632		24
2.								561		24
3.										
4.										
5.										

Flange

FLOW CALCULATIONS

No.	Coefficient	Pressure psia	Flow Temp. °F	Gravity Factor	Compress. Factor	Rate of Flow Q, MCFPD @ 1025 psia
	3.435	91.50	.9822	.9571	1.062	314
1.	3.435	172.05	.9822	.9571	1.056	587
2.						
3.						
4.						
5.						

Dry

PRESSURE CALCULATIONS

.655

Gas Liquid Hydrocarbon Ratio 0.119 cf/bbl. Specific Gravity Separator Gas 792.2
 Gravity of Liquid Hydrocarbons _____ deg. Specific Gravity Flowing Fluid 627.6
 $P_c = \frac{P}{1 - e^{-S}}$ _____ P_c^2 _____

No.	P_w	$420 P_w^2$	$.283 (P_w)^2$	$.01 (P_w)^2$	$420.2 P_w^2$	$20 P_w^2$	$648 P_w$	$8 P_w$
1.	574.2	329.7	.528	.03	529.7	297.9	574.2	72.48
2.								
3.								
4.								
5.								

Absolute Potential Box 68, Eunice, New Mexico MCFPD; n _____
 COMPANY _____
 ADDRESS _____
 AGENT and TITLE _____
 WITNESSED _____

BEFORE EXAMINER MUTTER
 OIL CONSERVATION COMMISSION
 EXHIBIT NO. 4
 CASE NO. 1437

COMP. and attempt to test. Slope greater than 1.000. Slope of 1.000 drawn thru highest rate of flow. 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} = 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 .