

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool Lea Pennsylvanian Formation Bend County Lea
Initial X Annual _____ Special _____ Date of Test 1-20, 1-21
Company The Ohio Oil Company Lease _____ Lea Unit _____ Well No. 7
Unit N Sec. 12 Twp. 20S Rge. 34E Purchaser -
Casing 7 Wt. 29# I.D. 6.184 Set at 13,565 Perf. * To _____
Tubing 2 3/8 Wt. 4.7# I.D. 1.995 Set at 12,836 Perf. Open ended To _____
Gas Pay: From 12,892 To 13,141 L 12,836 xG .666 -GL 8549 Bar.Press. 13.2
Producing Thru: Casing _____ Tubing X Type Well Dual
Date of Completion: 1-16-62 Packer 12,740 Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp. 179

OBSERVED DATA

Tested Through (~~Prover~~) (~~Choke~~) (Meter) Type Taps Flange

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						4703				283' 15" SI
1.	4"	1.000	870	32	101	3271	67	Pkr	-	3
2.	4"	1.500	860	15	102	2719	71	"	-	3
3.	4"	1.500	855	27	98	2183	75	"	-	3
4.	4"	1.500	852	44	106	1784	75	"	-	3
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{wpf}}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	6.135	168.12	883.2	.9627	.9491	1.066	1005
2.	13.99	114.43	873.2	.9618	.9491	1.066	1558
3.	13.99	152.82	868.2	.9653	.9491	1.073	2102
4.	13.99	195.08	865.2	.9585	.9491	1.066	2647
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio 17.644 cf/bbl.
Gravity of Liquid Hydrocarbons 51 deg.
P_c (1-e^{-s})
Specific Gravity Separator Gas .666
Specific Gravity Flowing Fluid _____
P_c _____ P_c _____

No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w / P _c
1.									
2.									
3.									
4.									
5.									

Absolute Potential: 3597** MCFPD; n 1.604740

COMPANY The Ohio Oil Company
ADDRESS P. O. Box 2107, Hobbs, New Mexico
AGENT and TITLE John R. Barber Petroleum Engineer
WITNESSED _____
COMPANY _____

	P _f &P _s	P _f ² &P _s ²	P _f ² -P _s ²	REMARKS
	6736.2 SI	45,376	-	*Csg. Perfs: 12,892'-912', 13,078'-093', 13,102'-108', & 13,126'-141'.
1.	4986.2	24,862	20,514	**Back press. curve based on meas. BHP's.
2.	4322.2	18,681	26,695	Due to slope greater than 1.00 well will
3.	3599.2	12,954	32,422	be retested after pipe line connection
4.	3014.2	9,085	36,291	has been secured.