

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Monument McKee Formation McKee Sand County Lea
 Initial X Annual _____ Special _____ Date of Test March 5-6, 1962
 Company The Ohio Oil Company Lease Bertha Barber Well No. 12
 Unit L Sec. 5 Twp. 20S Rge. 37E Purchaser None
 Casing 4 1/2" Wt. 11.6# I.D. 3.826 Set at 9948 Perf. *See Below To _____
 Tubing 2 3/8" Wt. 4.7# I.D. 1.995 Set at 9822 Perf. 9818 To 9821
 Gas Pay: From 9773 To 9822 L 9817 xG 0.662 -GL 6499 Bar.Press. 13.2
 Producing Thru: Casing _____ Tubing X Type Well G. O. Dual
 Single-Bradenhead-G. G. or G.O. Dual
 Date of Completion: 12-23-61 Packer 9745 Reservoir Temp. 130°F.

OBSERVED DATA

Tested Through (~~Brover~~) (~~Choke~~) (Meter) Type Taps _____ Flg. _____

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						2495		Pkr.	-	50.75 Hr.
1.	4"	1.000	597	81	92	2201	68	"	-	3 Hr.
2.	4"	2.000	600	16	88	2040	69	"	-	3 Hr.
3.	4"	2.000	610	33	86	1879	72	"	-	2 Hr.
4.	4"	2.000	610	59	84	1710	72	"	-	2 Hr.
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.	6.135	2160	610.2	0.9706	0.9520	1.054	1328
2.	25.58	99.05	613.2	0.9741	0.9520	1.055	2479
3.	25.58	143.4	623.2	0.9759	0.9520	1.055	3595
4.	25.58	191.7	623.2	0.9777	0.9520	1.056	4821
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio 41,317 cf/bbl. Specific Gravity Separator Gas 0.662
 Gravity of Liquid Hydrocarbons 66.2° deg. Specific Gravity Flowing Fluid _____
 P_c _____ (1-e^{-s}) 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: 15,493 MCFPD; n 0.86283

COMPANY The Ohio Oil Company
 ADDRESS P. O. Box 2107, Hobbs, New Mexico
 AGENT and TITLE [Signature] Petroleum Engineer
 WITNESSED L. D. Southern
 COMPANY El Paso Natural Gas Company

	P _f / P _s	(P _f or P _s) ²	P _f ² - P _s ²	REMARKS
S.I.	3397.2	11,541	-	4 1/2" Casing Perfs.
1	3311.2	10,964	577	9773-9788; 9796-9802; 9805-9814;
2	3170.2	10,050	1491	9818-9822
3	3050.2	9,303	2238	
4	2897.2	8,394	3147	