

Interval of Disruption of neighboring wells
as determined by Vic Lyon:

Well	Location	Interval	Formation
Wentworth Well No 1	F-33-22-36	open hole 3075-3395 shot 3170-3322	Tansill - upper Entire zone except upper part
Saddle Borehole no 3	H-33-22-36	3518-3622 3662-3836	Middle Seven Rivers Lower Seven Rivers
Wentworth Well No 1	K-34-22-36	3132-3594 open hole	Yolac - all of it Seven Rivers
Saddle Borehole no 3	D-3-23-36	3120-3340	All of Yolac
Wentworth Well No 23	B-4-23-36	2952-3400 (open hole)	Tansill to upper Seven Rivers

ILLEGIBLE

*Corrected
test - sub
mitted after
the hearing
amended
exhibit*

NEW MEXICO OIL CONSERVATION COMMISSION
One-point Back Pressure Test for Gas Wells
(Deliverability)

Form C-122-C
4-1-54

Pool Jalmat Formation Yates County Lea
Initial Annual X Special _____ Date of test 3-7/3-14-58
Company Continental Oil Company Lease Meyer B-33 Well No. 1
Unit M Sec. 33 Twp. 22 Rge. 36 Purchaser El Paso Nat. Gas Company
Casing 5 1/2 Wt. 14 I.D. 5.012 Set at 3508 Perf. 3056 To 3180
Tubing 2 1/2 Wt. 6.5 I.D. _____ Set at _____ Perf. _____ To _____
Gas Pay: From 3056 To 3180 L 2903 x G .680 = GL 1974 Bar.Press. 13.2
Producing Thru: Casing _____ Tubing X Type Well Single
Single- Bradenhead-G.G. or G.O. Dual

FLOW DATA

Started		Taken		Duration Hours	Type Taps	Line Size	Orifice Size	Static Press.	Differ- ential	Flow Temp.
Date	time	Date	time							
3-7	8:00 AM	3-10	8:00 AM	24	Flg	4"	1.500	477	9.00	60
	PM		PM							

FLOW CALCULATIONS

Static Pressure P _f	Differ- ential h _w	Meter Extension $\sqrt{P_f h_w}$	24-Hour Coeff- icient	Gravity Factor F _g	Temp. Factor F _t	Compress- ability F _{pv}	Rate of Flow MCF/Da. @ 15.025 psia Q
490.2	9.00	66.42	13.99	.9393	1.000	1.058	924

SHUT-IN DATA

FLOW DATA

Shut-in		Press. Taken		Duration Hours	Wellhead Pressure (P _c) psia		W.H. Working Pressure (P _w) and (P _t) psia	
Date	Time	Date	Time		Tubing	Casing	Tubing	Casing
3-11	8:00 AM	3-14	8:00 AM	72	598.2		491.2	
	PM		PM					

FRICTION CALCULATIONS(if necessary)

$$P_w [(491.2)^2 \div (5.866 \times 924)^2 (.127)]^{1/2} = 495.0$$

DELIVERABILITY CALCULATIONS

$$P_w \quad 495.0 \quad P_c \quad 598.2 \quad P_w + P_c \quad .8274$$

$$1 - \frac{P_w}{P_c} \quad .1726 \quad 1 + \frac{P_w}{P_c} \quad 1.8274 \quad \left(1 - \frac{P_w}{P_c}\right) \left(1 + \frac{P_w}{P_c}\right) = M \quad .3154$$

$$.36 + M \quad 1.141 \quad \text{Log} \quad 0.0572856 \quad x (n) \quad .771$$

SUMMARY

$$P_c = 598.2 \text{ psia}$$

$$Q = 924 \text{ MCF/Da.}$$

$$P_w = 495.0 \text{ psia}$$

$$P_d = 478.6 \text{ psia}$$

$$D = 1,023 \text{ MCF/Da.}$$

$$= 0.0441671 +$$

COMPANY Continental Oil Company
ADDRESS Box 68, Eunice, New Mexico
AGENT and TITLE _____
WITNESSED _____
COMPANY _____

$$\text{Log } Q = 2.9656720$$

$$\text{Log } D = 3,0098391$$

$$\text{Antilog} = 1,023 = D$$

REMARKS