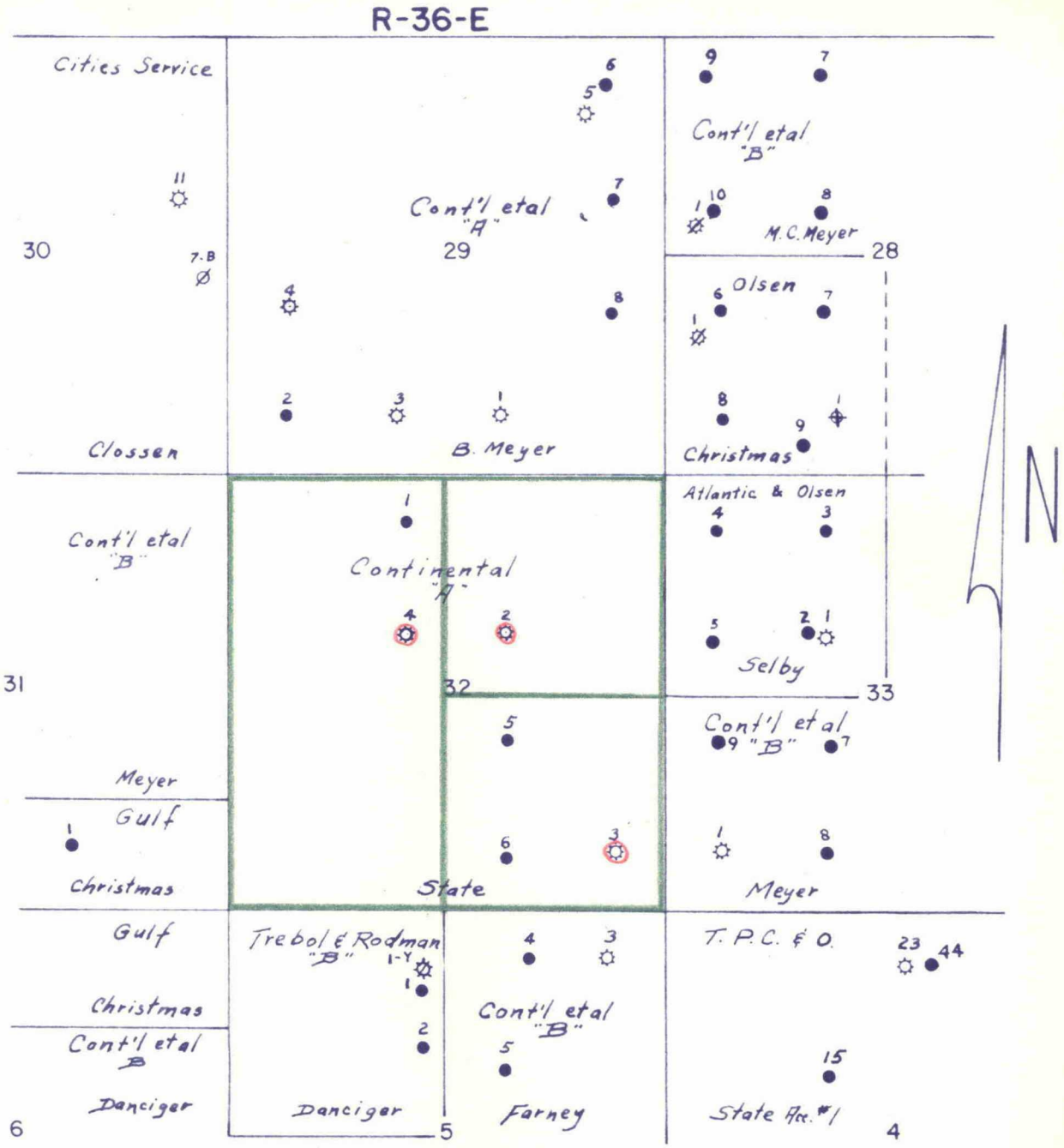


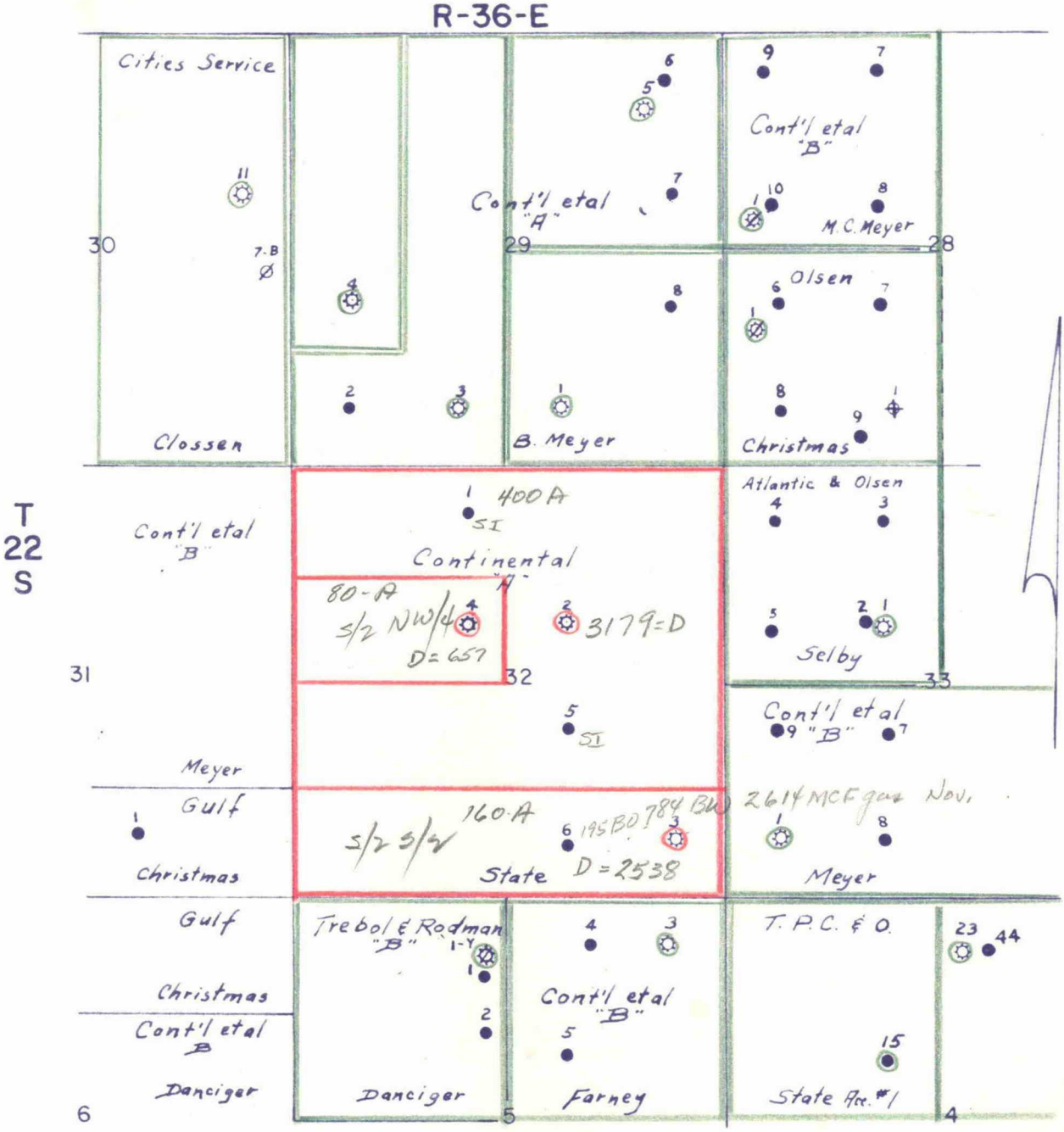
CONTINENTAL OIL COMPANY

EUNICE
N. M. DIST. OFFICE

SCALE 1" = 2000'

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
Appl. EXHIBIT NO. 1
CASE NO. 1889

EXHIBIT 1



#3 upper 7R

#6 lower 7R

Dep. by shale break

80

13
195 | 2614,000
195
664
585

CONTINENTAL OIL COMPANY

EUNICE
N. M. DIST. OFFICE

SCALE 1" = 2000'

all wells over prod.

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
Appl EXHIBIT NO. 2
CASE NO. 1889

EXHIBIT 2

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-Seven Rivers County Lea
Initial ____ Annual X Special ____ Date of test Feb. 2 - 6, 1959
Company Continental Oil Company Lease State A-32 Well No. 2
Unit G Sec. 32 Twp. 22S Rge. 36E Purchaser El Paso Nat. Gas Company
Casing 5 1/2 Wt. 14 I.D. 5.012 Set at 3354 Perf. 3230 To 3354
Tubing None Wt. ____ I.D. ____ Set at ____ Perf. ____ To ____
Gas Pay: From 3230 To 3354 L 3230 x G .676 = GL 2183 Bar.Press. 13.2
Producing Thru: Casing X Tubing ____ Type Well Single
Single- Bradenhead-G.G. or G.C. Dual

FLOW DATA

Started Date	Started time	Taken Date	Taken time	Duration Hours	Type Taps	Line Size	Orfice Size	Static Press.	Differ-ential	Flow Temp.
2-2	10:25 AM PM	2-3	10:25 AM PM	24	Flg	4"	2.250	253	86.49	66°

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
266.2	86.49	151.74	33.10	.9420	.9943	1.027	4,831

SHUT-IN DATA / FLOW DATA

Shut-in Date	Shut-in Time	Press. Taken Date	Press. Taken Time	Duration Hours	Wellhead Pressure (P_c) psia Tubing	Wellhead Pressure (P_c) psia Casing	W.H. Working Pressure (P_w) and (P_t) psia Tubing	W.H. Working Pressure (P_w) and (P_t) psia Casing
2-3	10:25 AM PM	2-4 2-5 2-6	10:25 AM PM	24 48 72		546.2 553.2 556.2		339.2

FRICTION CALCULATIONS(if necessary)

$P_w^2 = 339.2^2 + (.9902 \times 4.831)^2 (.139) = 117.7$
$P_w = 343.1$

SUMMARY

P_c = 556.2 psia
Q = 4,831 MCF/Da.
P_w = 343.1 psia
P_d = 445.0 psia
D = 3,179 MCF/Da.

DELIVERABILITY CALCULATIONS

P_w 343.1 P_c 556.2 $P_w + P_c$ .6169

$1 - \frac{P_w}{P_c}$ .3831 $1 + \frac{P_w}{P_c}$ 1.6169 $\left|1 - \frac{P_w}{P_c}\right| \left|1 + \frac{P_w}{P_c}\right| = M$ .6194

.36 + M .5812 Log 9.764325-10 x (n) .771 = 9.818295-10 +

COMPANY Continental Oil Company
ADDRESS Box 68, Eunice, New Mexico
AGENT and TITLE [signature]
WITNESSED ____
COMPANY ____

Log Q = [illegible]
Log D = 13.502332-10
Antilog = 3179.3 = D

REMARKS

NMOCC-3 AEG HLJ RLA File-2

EXHIBIT B

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-Seven Rivers County Lea
Initial ____ Annual X Special ____ Date of test Apr. 24-May 1, 1959
Company Continental Oil Company Lease State A-32 Well No. 3
Unit P Sec. 32 Twp. 22 Rge. 36 Purchaser El Paso Nat. Gas Co.
Casing 5 1/2 Wt. 14# I.D. 5.012 Set at 3539 Perf. 3210 To 3370
Tubing None Wt. ____ I.D. ____ Set at ____ Perf. ____ To ____
Gas Pay: From 3210 To 3370 L 3210 x G .671 = GL 2154 Bar.Press. 13.2
Producing Thru: Casing X Tubing ____ Type Well Single
Single- Bradenhead-G.G. or G.O. Dual

FLOW DATA

Started Date	Started time	Taken Date	Taken time	Duration Hours	Type Taps	Line Size	Orfice Size	Static Press.	Differ-ential	Flow Temp.
4-27	9:50AM PM	4-28	9:50 AM PM	24	Flg.	4"	2.250	273	49.00	70

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
286.2	49.00	118.42	33.10	.9456	.9905	1.028	3774.4

SHUT-IN DATA / FLOW DATA

Shut-in Date	Shut-in Time	Press. Taken Date	Press. Taken Time	Duration Hours	Wellhead Pressure (P_c) psia Tubing	Wellhead Pressure (P_c) psia Casing	W.H. Working Pressure (P_w) and (P_t) psia Tubing	W.H. Working Pressure (P_w) and (P_t) psia Casing
4-28	9:50 AM PM	4-29 4-30 5-1	9:50 AM PM	24 48 72		514.2 520.2 524.2		328.2

FRICTION CALCULATIONS(if necessary)

$P_w^2 = (328.2)^2 + (.9002 \times 3.774)^2 (.138) = 109.31$
$P_w = 330.6$

SUMMARY

P_c = 524.2 psia
Q = 3.774 MCF/Da.
P_w = 330.6 psia
P_d = 419.4 psia
D = 2.538 MCF/Da.

DELIVERABILITY CALCULATIONS

P_w 330.6 P_c 524.2 $P_w + P_c$ .6307

$1 - \frac{P_w}{P_c}$ .3693 $1 + \frac{P_w}{P_c}$ 1.6307 $\left|1 - \frac{P_w}{P_c}\right| \left|1 + \frac{P_w}{P_c}\right| = M$ .0022

.36 + M .5978 Log 9.77656 x (n) .771 = 9.82773-10 +

Log Q = 3.57680
Log D = 3.40453
Antilog = 2,538.2 = D

COMPANY Continental Oil Company
ADDRESS Box 68, Eunice, New Mexico
AGENT and TITLE ____ Dist. Supt.
WITNESSED ____
COMPANY ____

REMARKS

NMOCC-3 WEG HLJ RLA File-2

EXHIBIT 4

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-Seven River County Lea
Initial ____ Annual X Special ____ Date of test Feb. 2 - 6, 1959
Company Continental Oil Company Lease State A-32 Well No. 4
Unit F Sec. 32 Twp. 22 Rge. 36 Purchaser El Paso Nat. Gas Co.
Casing 5 1/2 Wt. 14 I.D. 5.012 Set at 3638 Perf. 3388 To 3550
Tubing 2 3/8 Wt. 4.70 I.D. 1.995 Set at 3337 Perf. ____ To ____
Gas Pay: From 3388 To 3550 L 3337 x G .669 = GL 2232 Bar.Press. 13.2
Producing Thru: Casing ____ Tubing X Type Well Single
Single- Bradenhead-G.G. or G.C. Dual

FLOW DATA

Started Date	Started time	Taken Date	Taken time	Duration Hours	Type Taps	Line Size	Orfice Size	Static Press.	Differential	Flow Temp.
2-2	10:15 AM PM	2-3	10:15 AM PM	24	Flg.	4"	1.250	254	53.29	74°

FLOW CALCULATIONS

Static Pressure P_f	Differential h_w	Meter Extension $\sqrt{P_f h_w}$	24-Hour Coefficient	Gravity Factor F_g	Temp. Factor F_t	Compressability F_{pv}	Rate of Flow MCF/Da. @ 15.025 psia Q
267.2	53.29	119.33	9.643	.9470	.9868	1.025	1,102

SHUT-IN DATA / FLOW DATA

Shut-in Date	Shut-in Time	Press. Taken Date	Press. Taken Time	Duration Hours	Wellhead Pressure (P_c) psia Tubing	Wellhead Pressure (P_c) psia Casing	W.H. Working Pressure (P_w) and (P_t) psia Tubing	W.H. Working Pressure (P_w) and (P_t) psia Casing
2-3	10:15 AM PM	2-4	10:15 AM PM	24	583.2	583.2	280.2	318.2
		2-5		48	584.2	584.2		
		2-6		72	585.2	585.2		

FRICTION CALCULATIONS(if necessary)

Not necessary

DELIVERABILITY CALCULATIONS

P_w 318.2 P_c 585.2 $P_w + P_c$ .5437

$1 - \frac{P_w}{P_c}$ .4563 $1 + \frac{P_w}{P_c}$ 1.5437 $\left|1 - \frac{P_w}{P_c}\right| \left|1 + \frac{P_w}{P_c}\right| = M$ .7044

.36 + M .5111 Log -1.708505 x (n) .771 = -1.775257 +

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

SUMMARY

P_c = 585.2 psia
Q = 1,102 MCF/Da.
P_w = 318.2 psia
P_d = 468.2 psia
D = 657 MCF/Da.

Log Q = 3.042161
Log D = 2.817438
Antilog = 656.8 = D

REMARKS

NMOCC-3
WEC HLJ RLA File-2

EXHIBIT 5