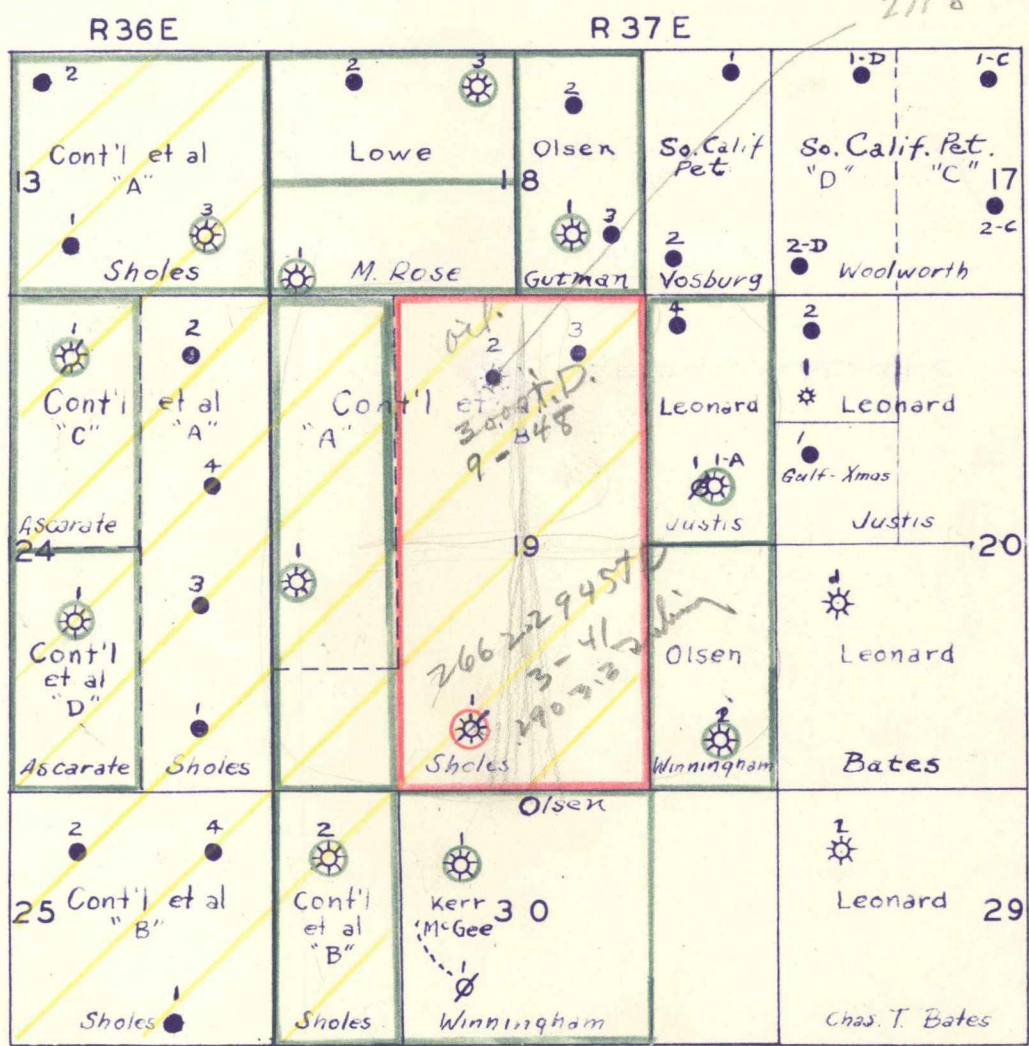


BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION
EXHIBIT NO. 1
CASE NO. 2159

2718 12-19-66 230
3000' treated
1230, 48,083,1
#33298-3318



T
25
S

#2-59 Prod

CONTINENTAL OIL COMPANY

C-116 5-60

Q. 177,594 = 224,803.1

Oil. 790

SHOLES A-19 & B-19 LEASES

Gas 153
2 = 76,500

Mar. 61 12,928
50 = 258,560.1

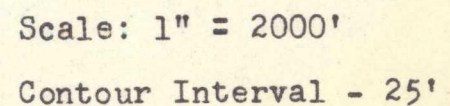
Q. 258,560.1

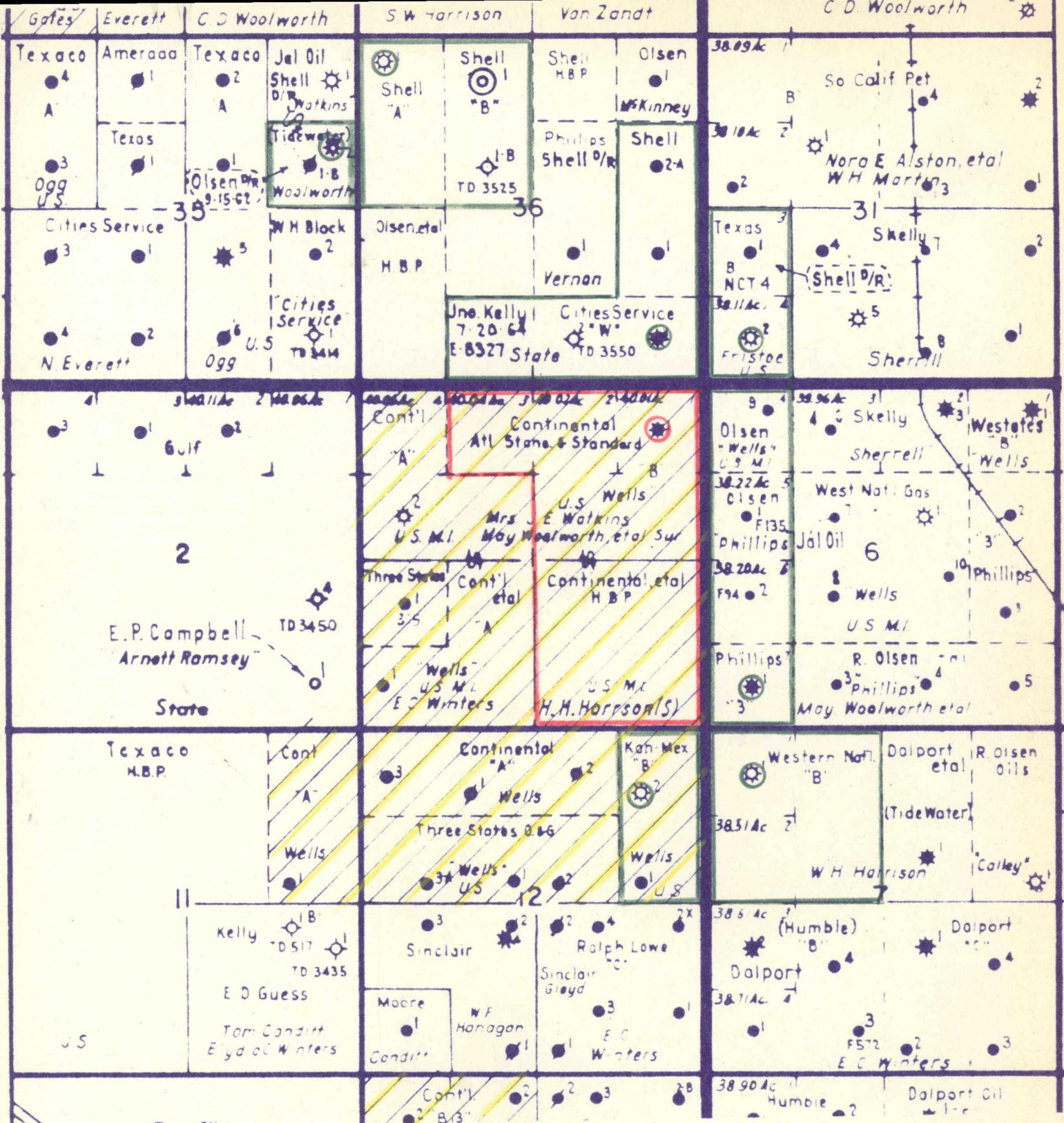
Sholes B-19 No. 1 ○

Approved Gas Unit Well ○

Proposed Gas Unit —

Approved Gas Unit —





CONTINENTAL OIL COMPANY
LOCATION AND OWNERSHIP PLAT

Scale: 1" = 2000'

Proposed Gas Unit

BEFORE EXAMINER UTZ

Approved Gas Unit

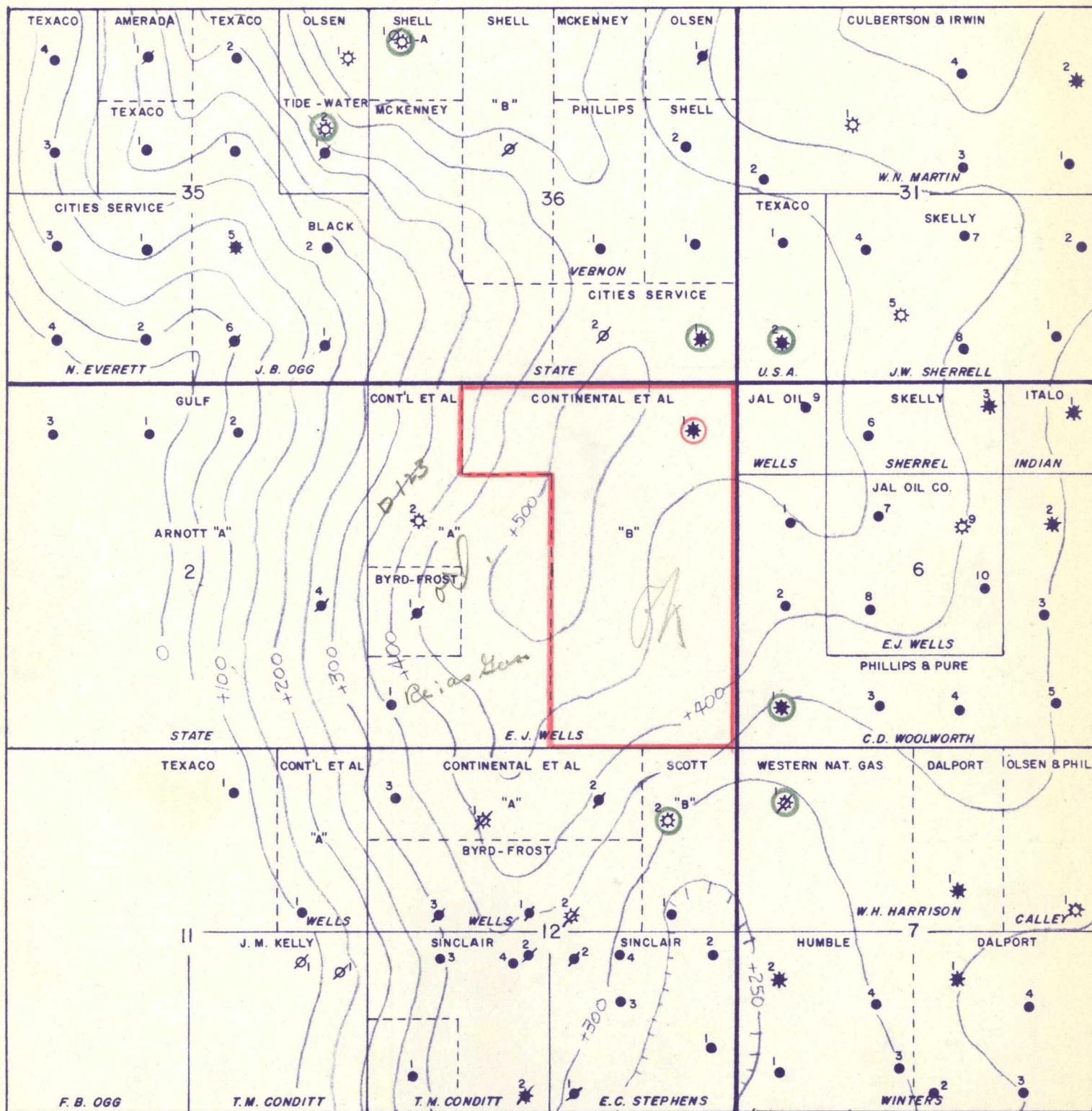
Wells B-1 No. 1

OIL CONSERVATION

Approved Gas Unit Well

EXHIBIT NO. 4

CASE NO. 2159



CONTINENTAL OIL COMPANY
 CONTOURED ON TOP OF THE YATES
 Contour Interval - 50'

T24S, R36E, Lea Co., New Mexico

BEFORE EXAMINER UTZ

EXHIBIT NO. _____

CASE NO. _____

BEFORE EXAMINER UTZ

OIL CONSERVATION COMMISSION

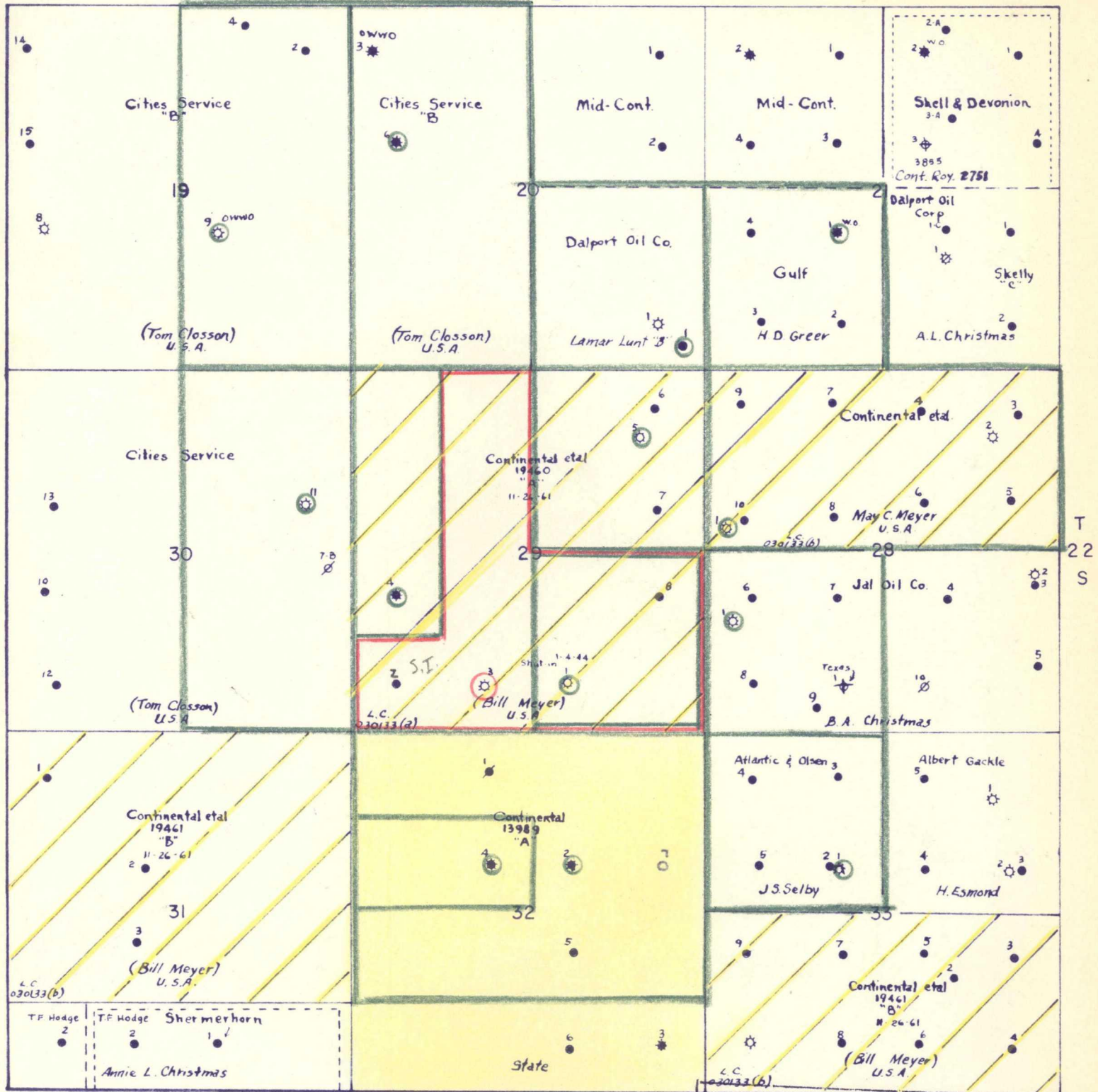
EXHIBIT NO. 5

CASE NO. 2159

Wells B-1 No. 1 ○

Proposed Gas Unit —

R-36-E



CONTINENTAL OIL COMPANY

Scale: 1" = 2000'

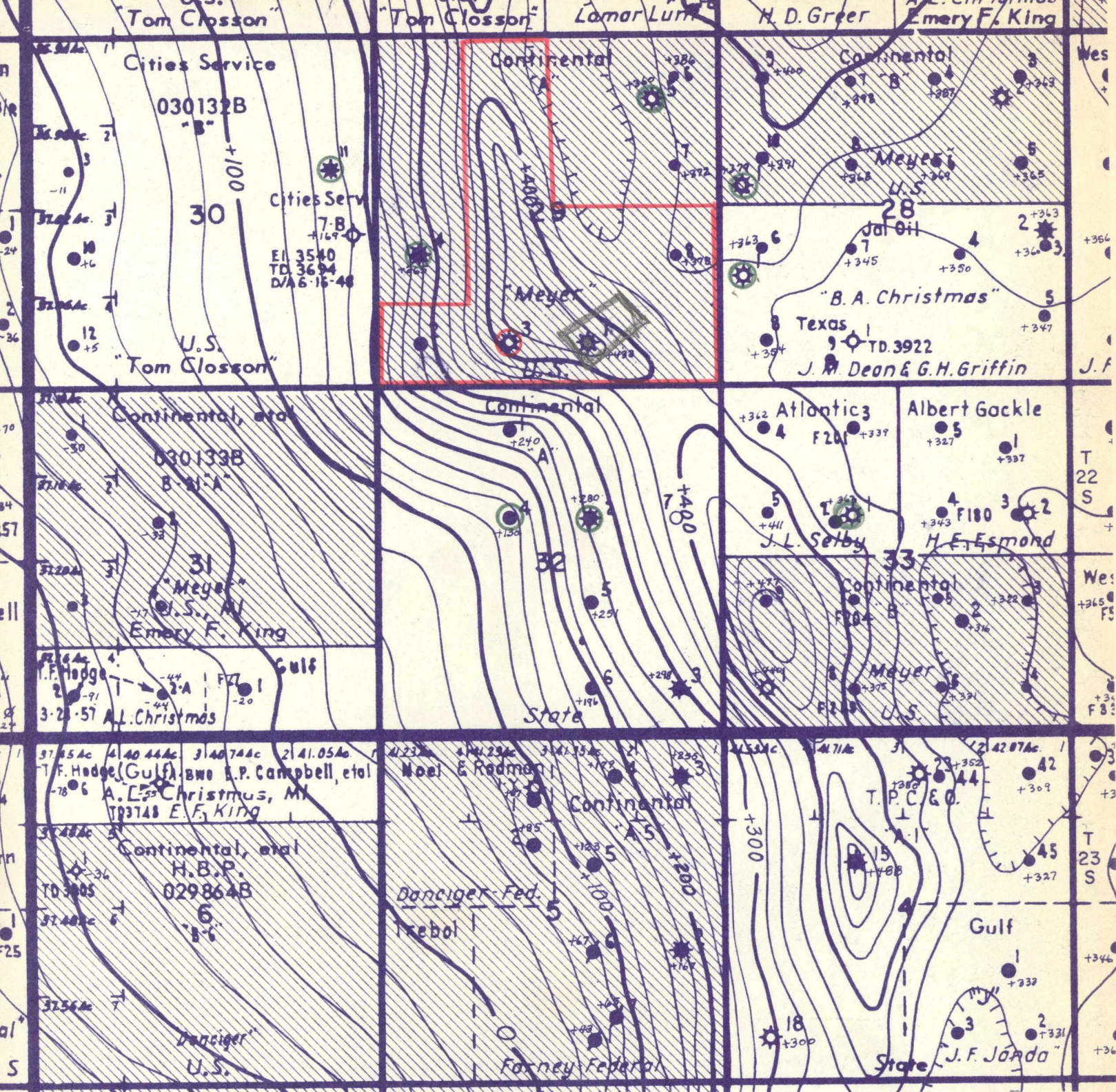
Proposed Gas Unit —

Meyer A-29 No.3 ○

BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION
EXHIBIT NO. 21529
CASE NO. 21529

Approved Gas Unit —

Approved Gas Unit Well ○



R-36-E

CONTINENTAL OIL COMPANY
STRUCTURE PLAT
CONTOURED ON TOP OF YATES

BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION
EXHIBIT NO. 8
CASE NO. 2159
Proposed Gas Unit

Jalmat Gas
Jalmat Oil
South Eunice

Scale: 1" = 2000'
Contour Interval: 25'
Meyer A-29 No. 3 ○

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

RECEIVED
 EUM...
 MAY 11 1968
 Form C-122-C
 4-1-54C

Pool Jalisco Formation Tates County Lee
 Initial Annual Special Date of test 12/11/67 AM 9:49
 Company Continental Oil Company Lease Sheldon R-19 Well No. 1
 Unit 1 Sec. 10 Twp. 25 Rge. 37 Purchaser El Paso Natural Gas Co.
 Casing 7" Wt. 21.4 I.D. 6.166 Set at 2662 Perf. O.H. 2662 To 2845
 Tubing None Wt. I.D. Set at Perf. To
 Gas Pay: From 2662 To 2845 L. 2662 x 6 .677 = GL 1802 Bar. Press. 13.2
 Producing Thru: Casing X Tubing Type Well Single
 Single- Bradenhead-G.G. or G.O. Dual

FLOW DATA

Started Date	time	Taken Date	time	Duration Hours	Type Taps	Line Size	Orifice Size	Static Press.	Differ- ential	Flow Temp.
3-7	8:00 AM	3-8	8:00 AM	24	FLg	4"	1.500	129	10.24	55°
	PM		PM							

FLOW CALCULATIONS

Static Pressure P _r	Differ- ential h _w	Meter Extension $\sqrt{P_r h_w}$	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
142.2	10.24	38.16	13.99	.9414	1.0048	1.013	511.6

SHUT-IN 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
3-8	8:00 AM	3-9	8:00 AM	24		218.2		145.2
	PM	3-10		48		228.2		
		3-11	PM	72		231.2		

FRICTION CALCULATIONS(if necessary)

$$P_w^2 = (145.2)^2 / ((.4915 \times .5116)^2) .117 = 21.09$$

$$P_w = 145.2 \text{ (Pressure Drop Insignificant)}$$

DELIVERABILITY CALCULATIONS

P_w 145.2 P_c 231.2 P_w + P_c .6200

$$1 - \frac{P_w}{P_c} = .3720 \quad 1 + \frac{P_w}{P_c} = 1.6200 \quad \left(1 - \frac{P_w}{P_c}\right) \left(1 + \frac{P_w}{P_c}\right) = M \quad .6054$$

$$.36 + M = .5945 \quad \text{Log } 9.774152-10 \quad \times (n) = .987$$

SUMMARY

P_c = 231.2 psia
 Q = 511.6 MCF/Da.
 P_w = 145.2 psia
 P_d = 185 psia
 D = 306 MCF/Da.

COMPANY Continental Oil Company
 ADDRESS Box 68, Eureka, New Mexico
 AGENT and TITLE J. R. [Signature] Dist. Supt.
 WITNESSED
 COMPANY

Log Q = 2.704930
 Log D = 2.486018
 Antilog = 306.2 = D

REMARKS

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

Form C-122-C
4-1-54

Pool 1-1-1-1-1 Formation Tanque County Los
Initial Annual Special Date of test 3/1-11/50
Company Continental Oil Company Lease Wells 2-1 Well No. 1
Unit A Sec. 1 Twp. 23 Rge. 24 Purchaser El Paso Natural Gas Co.
Casing 7" Wt. 20 I.D. 6.452 Set at 1144 Perf. 2720 To 2899
Tubing 2-1/2" Wt. 9.20 I.D. 2.032 Set at 1140 Perf. To
Gas Pay: From 2720 To 2899 L 2720 x G .435 = GL 1187 Bar.Press. 13.2
Producing Thru: Casing M Tubing Type Well G.O. Dual
Single- Bradenhead-G.G. or G.O. Dual

FLOW DATA

Started		Taken		Duration Hours	Type Tabs	Line Size	Orifice Size	Static Press.	Differ- ential	Flow Temp.
Date	time	Date	time							
<u>3-7</u>	<u>9:45 AM</u>	<u>3-8</u>	<u>9:45 AM</u>	<u>24</u>	<u>725</u>	<u>4"</u>	<u>.790</u>	<u>210</u>	<u>60.04</u>	<u>520</u>
	<u>PM</u>		<u>PM</u>							

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
<u>223.2</u>	<u>60.04</u>	<u>116.5</u>	<u>3.435</u>	<u>.9972</u>	<u>1.0000</u>	<u>1.023</u>	<u>395.3</u>

SHUT-IN 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
<u>3-8</u>	<u>9:45 AM</u>	<u>3-9</u>	<u>9:45 AM</u>	<u>24</u>		<u>476.2</u>		<u>476.2</u>
	<u>PM</u>	<u>3-10</u>		<u>48</u>		<u>530.2</u>		
		<u>3-11</u>	<u>PM</u>	<u>72</u>		<u>533.2</u>		

FRICITION CALCULATIONS(if necessary)

$$P_w^2 = (476.2)^2 / (1.045 \times .3953)^2 .116 = 226.77$$

$$P_w = 476.2 \text{ (Pressure drop insignificant)}$$

DELIVERABILITY CALCULATIONS

$$P_w \quad \underline{476.2} \quad P_c \quad \underline{533.2} \quad P_w + P_c \quad \underline{.0931}$$

$$1 - \frac{P_w}{P_c} \quad \underline{.1069} \quad 1 + \frac{P_w}{P_c} \quad \underline{1.0931} \quad \left(1 - \frac{P_w}{P_c}\right) \left(1 + \frac{P_w}{P_c}\right) = M \quad \underline{.2024}$$

$$.36 + M \quad \underline{1.779} \quad \text{Log} \quad \underline{0.250176} \quad x (n) \quad \underline{.629}$$

SUMMARY

$$P_c = \underline{533.2} \text{ psia}$$

$$Q = \underline{395.3} \text{ MCF/Da.}$$

$$P_w = \underline{476.2} \text{ psia}$$

$$P_d = \underline{426.6} \text{ psia}$$

$$D = \underline{560} \text{ MCF/Da.}$$

$$= \underline{0.157901} +$$

COMPANY Continental Oil Company
ADDRESS Box 68, Hunter, New Mexico
AGENT and TITLE Dist. Rep.
WITNESSED
COMPANY

$$\text{Log } Q = \underline{2.996906}$$

$$\text{Log } D = \underline{2.74287}$$

$$\text{Antilog} = \underline{567.9} = D$$

MMOCC-3 WBO NLJ WAX FILE-3

REMARKS

ILLEGIBLE

EUNICE DIST. OFFICE
JUN 17 1960

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

Form C-122-C
4-1-54

Pool Jalisco Formation Permian County Lea
Initial Annual Special Date of test 2/3-12/60
Company Continental Oil Company Lease 1000000 A-1-27
Unit 1 Sec. 23 Twp. 23N Rge. 10E Purchaser El Paso Natural Gas Co.
Casing 1 1/2 Wt. 14 I.D. 1.315 Set at 187 Perf. 1130 To 1143
Tubing 1 1/2 Wt. 14 I.D. 1.315 Set at 187 Perf. 1130 To 1143
Gas Pay: From 1130 To 1143 L 187 x G .072 = GL Bar.Press. 13.2
Producing Thru: Casing 1 Tubing 1 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							
2-8	11:40 AM	2-9	11:40 AM	24	FM	4"	2.750	265	70.56	77°
	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
270.2	70.56	140.1	19.27	.9449	.9449	1.006	2,975

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
2-9	11:40 AM	2-10	11:40 AM	24	530.2	514.2	424.2	424.2
	PM	2-11		48	530.2	514.2		
		2-12	PM	72	530.2	514.2		

FRICTION CALCULATIONS(if necessary)

SUMMARY

P_c = 530.2 psia
Q = 2975 MCF/Da.
P_w = 424.2 psia
P_d = 424.2 psia
D = 2647 MCF/Da.

DELIVERABILITY CALCULATIONS

P_w 424.2 P_c 530.2 P_w + P_c .0076
 $1 - \frac{P_w}{P_c} = .1924$ $1 + \frac{P_w}{P_c} = 1.0076$ $\left| 1 - \frac{P_w}{P_c} \right| \left| 1 + \frac{P_w}{P_c} \right| = M$.2476
.36 + M 1.025 Log 0.014040 x (u) .001 = 0.011947 +

Log Q = 3.430777

Log D = 3.423744

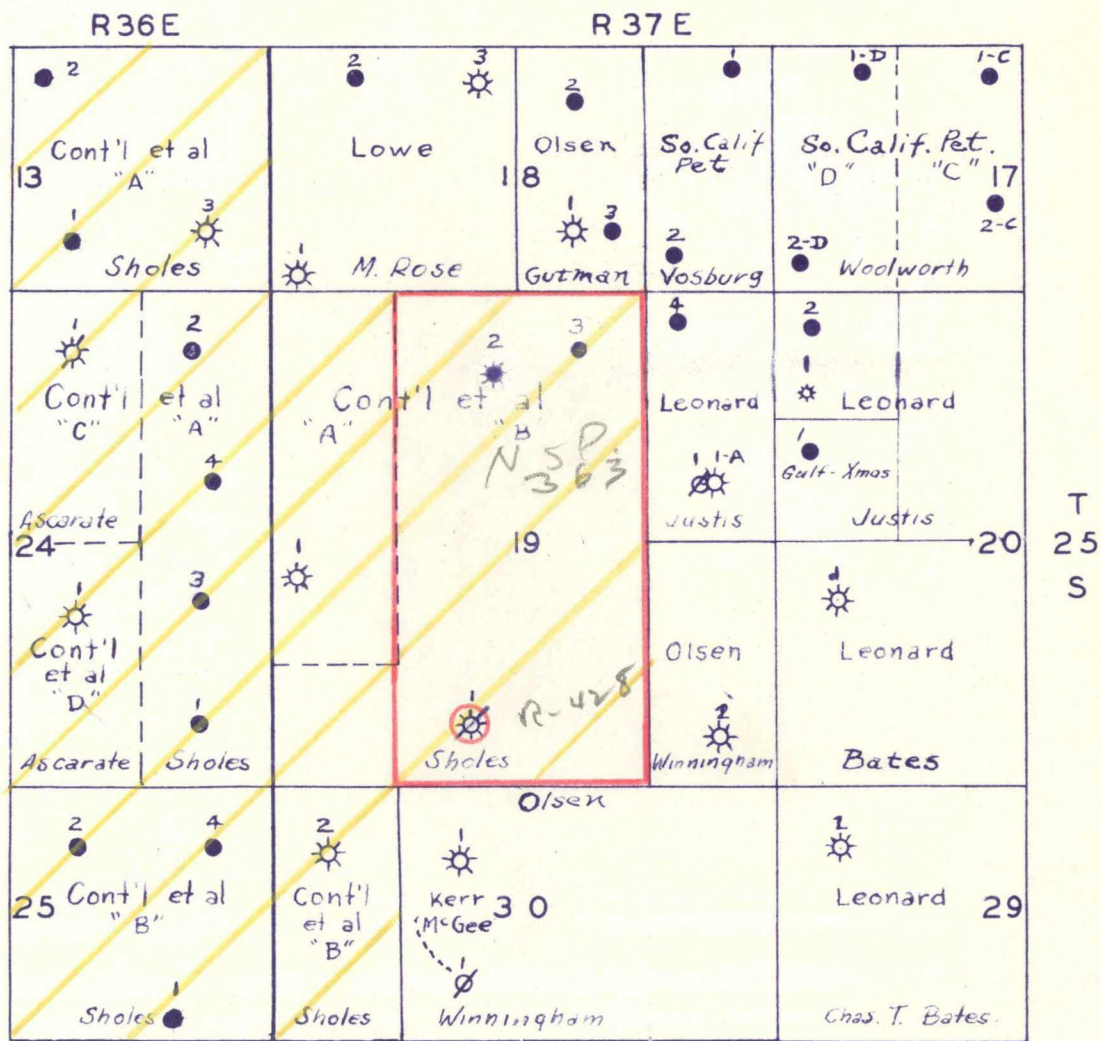
Antilog = 2647 = D

COMPANY Continental Oil Company
ADDRESS Box 64, Dumas, New Mexico
AGENT and TITLE [Signature] Dist. Eng.
WITNESSED _____
COMPANY _____

REMARKS

WMS-3 WMS NL/ WAM FILE-2

19-25-37



CONTINENTAL OIL COMPANY

SHOLES A-19 & B-19 LEASES
SURROUNDING LEASEHOLDINGS AND WELLS

Sholes B-19 No. 1 
Proposed Gas Unit 

