



CITIES SERVICE OIL COMPANY

PRODUCERS-REFINERS-MARKETERS OF PETROLEUM PRODUCTS

BARTLESVILLE
OKLAHOMA

February 13, 1951

Mar 20 hearing

Mc 261

Oil Conservation Commission
State of New Mexico
P.O. Box 871
Santa Fe, New Mexico

Attention: Mr. R. R. Spurrier, Secretary

Dear Dick:

Enclosed herewith are four copies of the application of the Cities Service Oil Company requesting authorization to dual complete and produce from the McKee Sand of the Simpson zone and the Ellenberger Lime reservoirs its State "S" #3 and State "S" #4 wells or as an alternative to transfer the allowables of the separate reservoirs between these two wells.

It is my understanding that the Tide Water Associated Oil Company has filed a similar application pertaining to their lease offsetting the Cities Service "S" lease to the North. If this matter can be set at the same time and place as the Tide Water application, the handling of similar matters would be materially expedited and all pertinent facts would be developed at the same time for the Commission's consideration.

Will you kindly advise me as to the time the application is set for hearing and also whether or not it will be heard with the Tide Water case.

With kindest personal regards, I am

Yours very truly,

CITIES SERVICE OIL COMPANY

By *R. E. Adams*
R. E. Adams
Proration Engineer

REA:mb

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION OF THE)
CITIES SERVICE OIL COMPANY TO DUAL COMPLETE)
AND PRODUCE ITS STATE "S" NO. 3 AND NO. 4)
WELLS LOCATED IN THE S/2 NW/4 SECTION 15,)
T-21-S, R-37-E, BRUNSON-HARE FIELDS, LEA)
COUNTY, NEW MEXICO, IN THE MCKEE SAND AND)
ELLENBERGER LIME COMMON SOURCES OF SUPPLY,)
OR TO AUTHORIZE THE TRANSFER OF ALLOWABLES)
BETWEEN SAID WELLS IN SAID COMMON SOURCES)
OF SUPPLY.)

A P P L I C A T I O N

Comes now the Cities Service Oil Company, a Corporation, and respectfully shows to the Commission as follows:

1. That applicant is the owner of an oil and gas lease described as the S/2 NW/4 Section 15, T-21-S, R-37-E, Brunson-Hare Fields, Lea County, New Mexico.

2. That applicant's State "S" Well No. 3 located 75 feet North and 75 feet East of the Center of the SE/4 NW/4 of Section 21 has been drilled to a total depth of 8034 feet in the Ellenberger Lime, top of which was encountered at 7725 feet and now is being completed in that reservoir through perforations from 7860-7900 feet and 7960-8000 feet. That in initial testing this well has produced through a 32/64" choke at the rate of 331 barrels of oil per day with a gas-oil ratio of 1135 cu. ft. per barrel. That in the drilling of said well the McKee Sand of the Simpson zone was found from 7467-7575 feet. That on a drill stem test from 7454-7530 feet in the McKee Sand the well flowed at the rate of 99 barrels of oil per hour with a gas-oil ratio of 968 cu. ft. per barrel. That the McKee Sand and Ellenberger Lime are separate common sources of supply separated by impermeable shale and lime in excess of 150 feet in thickness.

3. That applicant's State "S" Well No. 4 located 100 feet East of the Center of the SW/4 NW/4 of Section 21 is in the process of drilling with the McKee Sand of the Simpson zone and the Ellenberger Lime common sources of supply as its objectives. That current information indicates that these reservoirs will be commercially productive in said well.

4. That applicant proposes to install a packer, of approved mechanical design, in the interval between the base of the McKee Sand and the top of the Ellenberger Lime, in each of said State "S" Wells Nos 3 and 4, so as to produce the Ellenberger Lime reservoir through the tubing and the McKee Sand reservoir through the annulus between the tubing and casing. That said two common sources of supply can be separately produced through the same well bore, simultaneously or intermittently, by the use of such approved mechanical devices which will prevent any commingling of fluids therefrom or migration thereof between the reservoirs.

5. That the production of these two reservoirs by this means and in this manner will tend to prevent waste; increase the ultimate recovery of the respective reservoirs; protect correlative rights; prevent the drilling of unnecessary wells, and utilize to the fullest extent materials made critical by the demand of additional wells for the defense effort, and other war production projects, all to the benefit of your applicant, other producers, royalty owners and the State of New Mexico.

6. That and in the event this Commission finds that the dual completion of applicant's State "S" No. 3 and No. 4 Wells is impractical and/or infeasible as herein proposed, it is respectfully requested that transfer of allowables be authorized so that one well may produce from the McKee Sand with an allowable commensurate to that of two 40 acre units and that the other well produce from the Ellenberger with an allowable also commensurate to that of two 40 acre units. That before such allowable transfer be authorized the productive ability of each of said reservoirs in each of said wells be tested to the satisfaction of this Commission.

7. That applicant believes and so represents to this Commission that preferably the dual completion of wells in the McKee and Ellenberger reservoirs, or in the alternative the transfer of allowables between said wells in said reservoirs would not result in reservoir waste or impair correlative rights but would establish additional immediately producible reserves of oil with a minimum expenditure of critical material, and is in the best interests of the nation's preparedness program.

8. That a plat is attached hereto marked as Exhibit "A" showing the location of all wells on applicant's lease, and all offset wells on offset leases.

WHEREFORE, Applicant prays that this cause be docketed and set for hearing, that notice thereof be given as required by law, and that upon such hearing an order be promulgated authorizing the dual completion of the States "S" No. 3 and No. 4 wells of applicant so as to produce the McKee Sand of the Simpson zone and the Ellenberger Lime through the same well bore, or, in the alternative, a transfer of allowables be authorized so as to produce one well from the McKee Sand and the other from the Ellenberger Lime each being situated on 80 acre units with allowables commensurate to the unit size.

Dated: February 13, 1951

CITIES SERVICE OIL COMPANY

BY

R. E. Adams

R. E. ADAMS
PRORATION ENGINEER

R. 37 E.

11-10-54
So. Union Gas

(J. C. Estlack)

33
1 ● 6630

142
1 ● 6674
6657

1344
3 ● 6747
6742

1584
2 ● 6753
6748

289
1 ● 6746

Texas-Phillips

(C.H. Livingston)

3 ● 6730

94
2 ● 6674
6615

692
5 ● 6760
6749

179
4 ● 6718
3 ● 438
7906

Shell

Cont. Oil

Shell

work "B-9")

(Southland Roy. Co.)

(U.S. "W.C. Hawk")

(F.W. Dauron)

(U.S. "A.M. Lock

141-B
3 ● 6782
6724

136
2 ● 6750
6735

244-17 hr.
1 ● 6723
6719

264
1 ● 7875

1532
1-E ● 7751
7747

"A"

"B-10"

Aztec

Producing Formation
● Ellersberger
● McKee Sand-Simpson Zone
● Drinkard

Stanolind

Cont. O.

Cont. O. 1/4, etal

(State)

425
5 ● 6707

1200
2 ● 6695
6693

224
1 ● 6660

22-B+74W.
2 ● 6751

40
1 ● 7523
6592

Cont. Oil, 1/4, etal

Humble

Tide Water

Cont. Oil

State "C")

(H. Leonard "E")

(State "S")

(Owen)

120
6-X ● 6699
6670

211
3 ● 6710

7-B.O.13³W
4 ● 6699

99
1 ● 6660

89+7W
2 ● 876
8662 7896

324
3 ● 7629

"Tr. 12"

Tidewater
(State "S")

(State)

T.
21
S.

271
4 ● 6657

30
1 ● 6670

194
2 ● 6614

890
1 ● 4#431
6669

392
2 ● 59W.
3 ● 6676

462
1 ● 6641

32
2 ● 6641

184
1 ● 6643

Stanolind

Gulf

Cities Service
(Argo Oil Corp.)

Shell Oil

Moran, etal

(Carl Newton

97-B
2 ● 13 hr.
6654

322
3 ● 6630

196
4 ● 6644
6582

106
2 ● 6654
6651

341
3 ● 6645

848
1 ● 6629
904 6629
6 7847

488
4 ● 6622

152 (Eubanks)
2 ● 6622

Amerada

Shell

Ohio

Markham, Cone & Redfern

10-11-54

311-B
2 ● 11 hr
6700

952
2 ● 6660

661
4 ● 6665

89
1 ● 6646

904
4 ● 6630
5 ● 8991

314
2 ● 6634

182
3 ● 6621

140
1 ● 6617

Midcont. Petr

Shell

Ohio

Markham, Cone & Redfern

Gulf

(M.N. Weatherly)

(Elliott "A")

(Argo) "A"

(Eubank)

(D.A. Williams)

432
3 ● 6624

360
4 ● 6612

200
1 ● 6630

739
1-A ● 6636
6633

732
3 ● 6628

85
5 ● 7756

624
1 ● 6620

547
2 ● 6614

200
1 ● 6620

5W
2 ● 6600
6575

264
6 ● 6620

228
7 ● 6628
1-E.D. 6 Mi.
3365
P.B. 6181

127
2 ● 6635

143 131
2 ● 6629 8090

510 30
4 ● 1810 6633
7599

122
6 ● 7681

316
3 ● 6620

504
4 ● 6615

52
2 ● 6615

240
1 ● 6600

Trinity

Barnsdall

Shell

Gulf

Tide Water

Tokland Roy

(Mary Wantz)

(Anderson)

(A.T. Turner)

(S.J. Sarkeys)

360
4-D ● 6700
P.B. 6640

240
3-D ● 6630
6586

729
2 ● 8250

240
2 ● P.B.
316 6616
7 357 7885
8190

602 B.
10 ● 7502
9 ● 12-186 B.
396 B.
7951

14 ● 277
1758

134
5 ● 6612

119
1 ● 6612

240
2 ● 6610

7/4 W
1 ● 6711
5935

1450
2-E ● 8230

1468
1-E ● 8270

1128
2-E ● 8304
7985

860 201
4 ● 6 6
7896 6632

342 B.
7782

130 302
13 ● 6633

148
1 ● 6610

165
1 ● 6603

239
4 ● 6606

138 hr.
1 ● 6550
6550

Shell

Shell

(Eunice King)

(A.M. Lockhart)

(S.J. Sarkeys)

210 1637
23 ● 6630 19 ● 672
1835 8169
1780

209 P.B. 7630
10 ● 6650 23
10 1032 B.
8040

490
7555 281
260 7650
26 ● 7603

2340
1-E ● 7782
194 B.
6630
6547

1232
3-E ● 7652
7639

120
6 ● 6570
6565

360
5 ● 6567

241
2 ● 6565
6557

R. 37 E.

Exhibit "A"

246
5 ● 6599
3738 3146

2130 B.
7121 P.B.
14 ● 7176
8063

528 B.
P.B. 7623
21 ● 127
7935

1332 80 B.
2-E ● 4 ● 8 hr.
1866
7585 6677
600 B. 6544
1-S ● 572 B.
1773

1624
1 ● 6569

1588
2 ● 6570

529
1 ● 6560

231 H.S.W.
4 ● 6586

190
1 ● 6566

Gulf Ise.

Cont. Oil, etal

Tide Water

Harper-T

(J.N. Carson)

(W.S. Marshall)

(A.A. Hardison)

(J.R. Cone)

(S.E. Cone)

(Cone)