

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO

17 August 1988

EXAMINER HEARING

IN THE MATTER OF:

Application of Exxon Company, U.S.A. CASE
for an unorthodox oil well location 9459
and simultaneous dedication, Lea
County, New Mexico, and

Application of Exxon Company, U.S.A.
for an unorthodox oil well location,
directional drilling, and simultaneous
dedication, Lea County, New Mexico.

9460

BEFORE: David R. Catanach, Examiner

TRANSCRIPT OF HEARING

A P P E A R A N C E S

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A P P E A R A N C E S Cont'd

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1 MR. CATANACH: Call next Case
2 Number 9459.

3 MR. STOVALL: Application of
4 Exxon Company, U.S.A. for an unorthodox oil well location
5 and simultaneous dedication, Lea County, New Mexico.

6 MR. CATANACH: Are there ap-
7 pearances in this case?

8 MR. BRUCE: Yes, Mr. Examiner.
9 I'm Jim Bruce with the Hinkle Law Firm in Santa Fe, New
10 Mexico, appearing on behalf of Exxon, U.S.A. in this case.

11 MR. CATANACH: Are there any
12 other appearances?

13 MR. KELLAHIN: Yes, Mr. Exa-
14 miner. I'm Tom Kellahin of the Santa Fe law firm of
15 Kellahin, Kellahin and Aubrey. We represent Phillips Pet-
16 roleum Company in this matter.

17 MR. CATANACH: Are there any
18 other appearances?

19 MR. BRUCE: Mr. Examiner, we
20 would request that Case Number 9460 be consolidated with
21 Case 9450 for the purposes of hearing.

22 MR. CATANACH: Call Case 9460.

23 MR. STOVALL: Application of
24 Exxon, U.S.A, for an unorthodox oil well location, direc-
25 tional drilling, and simultaneous dedication, Lea County,

1 New Mexico.

2 MR. CATANACH: Mr. Bruce, how
3 many witnesses do you have?

4 MR. BRUCE: I have three wit-
5 nesses.

6 MR. CATANACH: Mr. Kellahin?

7 MR. KELLAHIN: We do not in-
8 tend at this time to call a witness.

9 MR. CATANACH; Will the wit-
10 nesses please stand to be sworn?

12 (Witnesses sworn.)

14 W. T. (BILL) DUNCAN, JR.,
15 being called as a witness and being duly sworn upon his
16 oath, testified as follows, to-wit:

18	DIRECT EXAMINATION
----	--------------------

19 BY MR. BRUCE:

20 Q Please state your full name and city of
21 residence.

22 A William Thomas Duncan, Junior, Midland,
23 Texas.

24 Q What is your occupation?

25 A I'm a petroleum engineer and I'm Senior

1 Engineer with Exxon Company, U.S.A., involved with regula-
2 tory affairs.

3 Q Have you previously testified before the
4 OCD as an engineer?

5 A Yes, I have.

6 Q And are you familiar with the matters
7 concerning Cases 9459 and 9460?

8 A Yes, sir, I am.

9 MR. BRUCE: Mr. Examiner, is
10 the witness considered qualified?

11 MR. CATANACH: He is.

12 Q Mr. Duncan, would you please refer to
13 Exhibit Number One and describe it briefly?

14 A Yes. Exhibit Number One is a map which
15 locates Exxon's New Mexico K State Lease within the north
16 central portion of Lea County, New Mexico. The lease is
17 approximately two miles east of Buckeye and consists of two
18 half sections, the east half of Section 32 and the diagon-
19 ally adjacent south half of Section 28.

20 Exxon's proposed Vacuum Glorieta wells
21 are both locations in the south half of Section 28.

22 Also shown on this map is a shaded area
23 which is mapped on some of our later exhibits.

24 Q Would you please now refer to Exhibit
25 Number Two, describe its contents, and would you please

1 summarize what Exxon seeks in these two cases?

2 A Exhibit Number Two is an enlarged map of
3 the south half of Section 28. As you can see from this --
4 well, on this exhibit I'd like to point out some of our
5 offset operators.

6 To the north of Exxon's proposed prora-
7 tion units is Phillips. To the northwest is Phillips. To
8 the west and southwest is Shell. To the south is Texaco.
9 Other offsets are Exxon tracts.

10 This exhibit shows the proposed surface
11 and bottom hole locations of Exxon's two proposed wells.

12 Case Number 9459 is the case in which
13 Exxon seeks to drill Well No. 35 from a surface location
14 1195 feet from the south line and 2518 feet from the east
15 line to a bottom hole location within a 240-foot square
16 window 10 feet from the north and west lines of Unit O.

17 This location is unorthodox due to the
18 proximity to interior quarter quarter sections lines. The
19 location is toward the interior of the lease.

20 We also seek simultaneous dedication of
21 Unit O to Well No. 35 and existing Well No. 21 and propose
22 that the 107-barrel of oil per day Vacuum-Glorieta top
23 allowable be shared in equal portions between the two
24 wells.

25 In Case Number 9460 Exxon seeks to drill

1 Well No. 34 from a surface location 1286 feet from the
2 south line and 1333 feet from the west line to a bottom
3 hole location within the 140-foot square window 10 feet
4 from the south and east lines of Unit L.

5 Again the location is unorthodox due to
6 interior quarter quarter section lines.

7 The surface location is spotted outside
8 Unit L to avoid surface obstructions; therefore we request
9 directional drilling authority. We wish to simultaneously
10 dedicate Unit L to both Well 34 and existing Well 31, with
11 the 40-acre allowable shared in any proportion between the
12 two.

13 In both cases Exxon is requesting bottom
14 hole location windows to decrease the expense of direction-
15 al control. Larry Sohaney will testify more on this and
16 the surface evidence later.

17 Q Thank you. Has Exxon notified offset
18 operators of these two applications?

19 A Yes, we have, and Exxon's Exhibit Three
20 is a copy of the return receipts for that notification.

21 Q And were Exhibits One through Three pre-
22 pared by you or under your direction?

23 A Yes, they were.

24 MR. BRUCE: Mr. Examiner, at
25 this time I move the admission of Exhibits One through

1 Three.

2 MR. CATANACH: Exhibits One
3 through Three will be admitted as evidence.

4 MR. BRUCE: I have no further
5 questions of the witness at this time.

6
7 CROSS EXAMINATION

8 BY MR. CATANACH:

9 Q Mr. Duncan, let's go over your offset
10 operators one more time.

11 To the north is Phillips.

12 A That's correct.

13 Q Northwest is Phillips.

14 A Yes. To the west is Shell in Section
15 32. To the southwest is Exxon.

16 Q Okay.

17 A Directly to the south of Units M and N
18 is Texaco and to the south of Units O and P is Phillips.

19 Then also to the north of Units J and I
20 is Shell.

21 Q And these wells are going to be located
22 in the Vacuum Glorieta Pool, is that correct?

23 A That's correct. All the wells shown on
24 this exhibit are Glorieta field wells, Pool wells.

25 Q And why does Exxon want to drill these

1 additional wells on these proration units?

2 A Basically because the existing wells on
3 the proration units are watering out and these wells will
4 be eventual replacements for those two wells. They are in
5 an area which we will show is very unlikely to be high
6 water cut and will effectively be top allowable longer than
7 the other location on the proration units.

8 MR. CATANACH: I have no fur-
9 ther questions of the witness. He may be excused.

10

11 ROBERT C. ASREEN, JR.,
12 being called as a witness and being duly sworn upon his
13 oath, testified as follows, to-wit:

14

15 DIRECT EXAMINATION

16 BY MR. BRUCE:

17 Q Would you please state your name and
18 residence?

19 A Robert Charles Asreen, Junior. I'm a
20 resident of Midland, Texas.

21 Q And what is your occupation and who are
22 you employed by?

23 A I am a Senior Geologist employed by
24 Exxon Company, U.S.A, in Midland, Texas.

25 Q And have you previously testified before

1 the OCD as a geologist?

2 A Yes, I have.

3 Q And are you familiar with the geologic
4 matters affecting these two applications?

5 A Yes, I am.

6 MR. BRUCE: Mr. Examiner, are
7 the witness' credentials acceptable?

8 MR. CATANACH: They are.

9 Q Mr. Asreen, would you please refer to
10 Exhibit Number Four and discuss its contents?

11 A Okay. Exhibit Number Four is a type log
12 for the New Mexico K State Lease. This log shows the ver-
13 tical interval from the New Mexico K State Lease wells pro-
14 duce.

15 The log is an open hole simultaneous
16 acoustic log for the New Mexico K State No. 21 located in
17 proration Unit O, as shown in Exhibit Number Two.

18 The gamma ray and caliper curves are
19 shown on the lefthand side of the log, the depth track in
20 the middle, and specific acoustic time is shown on the
21 right.

22 The vertical scale is one inch equals 20
23 feet.

24 The top of the Glorieta Pool is shown in
25 bold print along the far lefthand side of the log at 5932.

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1 This reservoir produces by a combination
2 solution gas and moderate flank water drive mechanism, with
3 the water drive being the prevalent drive mechanism on the
4 east half of the field.

5 The waterflood front is now encroaching
6 on the K State Lease from the northwest and also from the
7 southeast.

8 Q Please now describe Exhibit Six for the
9 Examiner.

10 A Okay. Exhibit Number Six is a struc-
11 tural cross section through the New Mexico K State Lease.

12 The cross section shows the structural
13 position of the proposed New Mexico K State Nos. 34 and 35
14 Wells with respect to surrounding wells.

15 The wells on the cross section are shown
16 in the index map on the far righthand side of the exhibit.
17 The line of section is oriented from northwest to southeast
18 through the proposed locations. It is also perpendicular
19 to the axis of the structure.

20 The vertical scale for the log trace is
21 shown. It's one inch equals 20 feet. The horizontal scale
22 is one inch equals 200 feet.

23 Both the top of the Paddock zone and the
24 top of the original oil/water transition zone are shown in
25 lower case print along the log.

1 The operator, lease, and well numbers of
2 different log traces shown on the cross section are located
3 at the top in bold print.

4 Shown with shading is the gamma ray,
5 greater than 50 percent of the maximum gamma ray deflec-
6 tion and porosity greater than 6 percent.

7 The New Mexico K State 34 and 35 Wells
8 are shown by dashed lines and these wells will be struc-
9 turally higher than existing wells in their respective pro-
10 ration units.

11 Q In your opinion will the granting of
12 these two applications be in the interest of conservation,
13 the prevention of waste and protection of correlative
14 rights?

15 A Yes.

16 Q And were Exhibits Four through Six pre-
17 pared by you or under your direction?

18 A Yes, they were.

19 MR. BRUCE: Mr. Examiner, I
20 move the admission of Exhibits Four through Six.

21 MR. CATANACH: Exhibits Four
22 through Six will be admitted into evidence.

23 MR. BRUCE: I have nothing
24 further of the witness at this time.

25

CROSS EXAMINATION

BY MR. CATANACH:

Q Mr. Asreen, you said something about two waterfloods. There is a waterflood in this area?

A Well, this is a natural water drive. That's what I was referring to, sir.

Q You said the water drive was approaching from what directions?

A Roughly in the same directions as the ends of the structure, from the north and northwest towards the K State Lease shown in Section 28, and from the south-east in Section -- and also from the southeast direction, too.

So it's roughly mimicking the structure.

Q Has your -- your water production has increased in the No. 21 and 31 Wells?

A Yes, it has. The No. 21, well, those questions will be addressed by Mr. Sohaney.

Q Okay.

MR. CATANACH: Anything further? I don't have any other questions.

Mr. Kellahin, do you have any questions?

1 MR. KELLAHIN: No, sir.

2
3 LAWRENCE JOHN SOHANEY,
4 being called as a witness and being duly sworn upon his
5 oath, testified as follows, to-wit:
6

7 DIRECT EXAMINATION
8

9 BY MR. BRUCE:

10 Q Mr. Sohaney, would you please state your
11 full name and where you reside?

12 A My name is Lawrence John Sohaney. I re-
13 side in Midland, Texas.

14 Q And by who are you employed and in what
15 capacity?

16 A I'm employed by Exxon Corporation as a
17 Staff Reservoir Engineer.

18 Q And have you previously testified before
19 the OCD?

20 A Yes, I have.

21 Q And are you familiar with the engineer-
22 ing matters related to Case Numbers 9459 and 9460?

23 A Yes, I am.

24 MR. BRUCE: Mr. Examiner, is
25 the witness considered qualified?

1 MR. CATANACH: He is.

2 Q Mr. Sohaney, would you please refer to
3 Exhibit Number Seven and describe its contents?

4 A Exhibit Seven is a cumulative water
5 production map on the Vacuum Glorieta Pool. We've posted
6 on this map the cumulative water production on each well
7 that was active in 1987 in the Vacuum Glorieta Pool.

8 The contour intervals are intervals of
9 50,000 barrels of water.

10 Looking at the east half of the field we
11 can see how the flank water drive, the natural flank water
12 drive, is progressing over time.

13 On the north, to the north of the Exxon
14 K State Lease, the flank water drive is progressing from
15 the north direction towards the south to the southeast.

16 And from the east side of the Exxon K
17 State Lease the flank water drive is progressing in the
18 westerly or northwesterly direction.

19 Looking at the proration unit that con-
20 tains Well No. 21, which will be Unit Number O, the direc-
21 tion that the flank water drive is taking suggests that the
22 last portion of this proration unit to water out will be
23 in the northwest corner, which is where we propose to drill
24 Well No. 35.

25 Looking at Unit L, which contains Well

1 No. 31, the water drive in that proration unit is progres-
2 sing from the northwest in a southeasterly direction and so
3 the last portion of that proration unit that will water out
4 is expected to be the southeast corner, which is where we
5 propose to drill Well No. 34.

6 As mentioned earlier, Well No. 21 and
7 Well No. 31 are currently watering out.

8 Also shown on this map is a gray shaded
9 area and a large portion of that shaded area overlies the
10 Exxon K State Lease. This is what we refer to as our top
11 allowable area. This area contains the 12 remaining top
12 allowable wells in the pool. Basically all these wells ex-
13 cept for one have been top allowable since drilling in 1964
14 and the reason that these wells are still top allowable is
15 because they have not watered out.

16 Q Thank you. Would you please now move on
17 to Exhibit Number Eight?

18 A Exhibit Eight is very similar to Exhibit
19 Number Seven. Exhibit Eight is a current water cut map for
20 all the producers in the Vacuum Glorieta Pool that were ac-
21 tive during the year 1987. Again, this serves to show the
22 advancement of the flank water drive which shows the ad-
23 vancement to be basically the same as shown on the prior
24 exhibit.

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1 ly unitization is being studied for this pool and it's
2 quite probable at some point in the future that this pool
3 will be CO₂ flooded. Wells Nos. 34 and 35 are highlighted
4 on this exhibit with arrows.

5 What is show here is an injection and
6 production pattern based on nominal 20-acre spacing. The
7 small black circles represent current and future oil pro-
8 ducers. The open circle represents a future drilled well
9 for oil. The black triangles represent future conversions
10 of existing wells to injection. And the open triangles re-
11 present future injection drilled wells.

12 As you can see, the proposed locations
13 of the two wells fit in quite nicely with a possible north-
14 west/southeast line drive injection pattern on 20-acre
15 nominal spacing, and, in fact, the two locations occupied
16 by the two wells are almost perfect 20-acre infill loca-
17 tions as compared to the offset four wells.

18 Q Would you please refer to Exhibit Number
19 Twelve and discuss other potential injection patterns?

20 A Exhibit Twelve is similar to Exhibit
21 Eleven and Exhibit Twelve shows a possible 5-spot injection
22 pattern for the field. Again the intent of this exhibit is
23 the same, is to show that with this injection pattern the
24 two proposed wells also fit in quite nicely with 20-acre
25 well spacing.

1 In fact, there are many other injection
2 patterns that can be drawn on paper but if you draw these
3 injection patterns, it will still be quite obvious that go-
4 ing to 20-acre well spacing will necessitate at some point
5 the drilling of Wells No. 34 and No. 35 at locations we've
6 proposed.

7 Q Please move on to Exhibit Number Thir-
8 teen and discuss well deviations, please.

9 A Exhibit Thirteen shows wellbore inclina-
10 tions and the maximum horizontal or straight holes on the
11 Exxon K State Lease.

12 The purpose of this exhibit is to show
13 the reasons for Exxon's bottom hole location windows as
14 shown on our application and as shown on Exhibit Number
15 Two.

16 What's listed on this exhibit are the
17 eight Exxon K State Wells on Section 28 and the two north-
18 ernmost wells on Section 32.

19 In the worst case, which would be K
20 State No. 25, the maximum possible horizontal deviation is
21 147 feet.

22 In the best case the maximum possible
23 horizontal deviation was 64 feet in the K State No. 19.

24 Based on these calculations we believe
25 that the 240 foot by 240 foot box, bottom hole location

1 window for Well No. 35 is a reasonable bottom hole location
2 window and one that we can attain by drilling that well
3 non- directionally.

4 Q Would you discuss the surface locations,
5 and I refer you to Exhibit Fourteen.

6 A Exhibit Fourteen is a surface hazards
7 map on a scale of one inch to 250 foot. It shows the south
8 half of Section 28.

9 To this point we've been referring to
10 this south half as the Exxon K State Lease but it also hap-
11 pens to be Tract Number 2801 of the East Vacuum Grayburg
12 San Andres Unit, which is operated by Phillips Petroleum
13 Company.

14 The wells with the three digits next to
15 them are wells operated by Phillips Petroleum in the East
16 Vacuum Grayburg San Andres Unit. The wells with the two
17 digits next to them are the Vacuum Glorieta Wells operated
18 by Exxon.

19 The two red areas show the size and
20 location of the drilling pad that would be necessary to
21 drill the two wells, Well No. 34 and Well No. 35. Inci-
22 dentally, the dark triangles are CO₂ injection wells in the
23 East Vacuum Grayburg-San Andres Unit.

24 Looking at Well No. 34, the surface
25 location of that well had to be located in Unit N. The

1 reason for that is we wanted originally to put the surface
2 location of Well No. 34 in the southeast corner of Unit L,
3 but there is a high pressure water injection pipeline oper-
4 ated by Phillips that would necessitate moving the surface
5 location at least 330 feet to the west. That high pressure
6 water injection pipeline runs from the northwest to the
7 southeast and has a lateral off it that runs from the
8 northeast to the southwest.

9 Well No. 34 then will be spudded on Unit
10 N and directionally controlled to bottom in the Unit L in
11 the 140 foot by 140 foot bottom hole location window.

12 Looking at Well No. 35 in Unit O, the
13 intended surface and bottom hole locations are identical
14 for that well. That well will be drilled as a straight
15 hole and unless the deviation becomes severe, no downhole
16 motors will be used to control the direction; however, if
17 in drilling that well the deviation does become severe and
18 it appears that the well might possibly leave the bottom
19 hole location window, then it will be directionally con-
20 trolled back toward the vertical to bottom within the bot-
21 tom hole location window.

22 Q Mr. Sohaney, why was Well 34 not located
23 to the west of the high pressure water pipeline you discus-
24 sed?

25 A Well, it could be located 330 foot west.

1 That would be bad for two reasons. First of all, it would
2 be very off-pattern as a 20-acre infill well. The location
3 that you would want a 20-acre infill well in between Wells
4 No. 31, 29, 27 and 32 would be at the intersection of those
5 4 proration units.

6 330 foot to the west is a very long pat-
7 tern.

8 Second of all, in moving in a westerly
9 direction we are moving more towards the water drive front
10 and so the reserves to be captured by that well would be
11 nowhere near as high as they could be if the well was in
12 the southeast corner.

13 Q In your opinion are the granting of
14 these applications in the interest of conservation, the
15 prevention of waste and are they necessary for Exxon to re-
16 cover the reserves under its acreage and protect its corre-
17 lative rights?

18 A Yes, they are.

19 Q And were Exhibits Seven through Fourteen
20 prepared by you or under your direction?

21 A Yes, they were.

22 MR. BRUCE: Mr. Examiner, I
23 move the admission of Exhibits Seven through Fourteen.

24 MR. CATANACH: Exhibits Seven
25 through Fourteen will be admitted into evidence.

1 MR. BRUCE: And I pass the
2 witness.

3
4 CROSS EXAMINATION

5 BY MR. CATANACH:

6 Q Mr. Sohaney, when do you anticipate that
7 you will have to plug the 21 and 31 Wells?

8 A It appears that Wells 31 and 21 could
9 probably produce at least ten more years at higher and
10 higher water cuts.

11 Well 31, as I mentioned, has had a his-
12 tory of casing leaks. A leak was repaired in 1980 and
13 again in 1985. Whether or not that well will last ten more
14 years is hard to say.

15 Q Do you know what they're currently pro-
16 ducing at?

17 A Yes. If you turn back to Exhibits Nine-
18 A and Nine-B, Well No. 21, the last rate I had for it was
19 71 barrels of oil per day.

20 Well No. 31, it was 59 barrels of oil
21 per day.

22 Both of these wells were worked over
23 early in this year in which we added a fair amount of pay;
24 we stimulated the wells; we treated for scale; we treated
25 for paraffin; and we put larger pumping units in the two

1 wells.

2 Q Do you know what the top allowable is
3 for this pool?

4 A It's 107.

5 Q How would Exxon propose to split the
6 production between the two, each two wells in the proration
7 unit?

8 A The two wells would share the 107. What
9 we would propose to do is to continue to produce Well No.
10 21 and Well No. 31, and to make up the balance between 107
11 and the capability of the existing wells with the two new
12 wells.

13 MR. CATANACH: I have no fur-
14 ther questions of the witness. Any other questions?

15 MR. BRUCE: Mr. Examiner, Case
16 Numbers 9459 and 9460 were advertised in the name of Exxon
17 Company, U.S.A, although the applications were made in the
18 name of Exxon Corporation, and we would prefer that any or-
19 ders issued in these cases be in the name of Exxon Corpora-
20 tion.

21 MR. CATANACH: Okay, thank
22 you, Mr. Bruce.

23 I have one more question, Mr.
24 Bruce.

25 When was the notification sent

to the offset operators?

2 MR. BRUCE: They were sent on
3 July 25, 1988. It doesn't show that on Exhibit Three. We
4 can -- we would ask permission to submit these after the
5 hearing.

6 MR. CATANACH: That would be
7 fine. I was just curious as to why the delivery dates were
8 so far (unclear).

9 But you've had no response
10 from any offset operators?

11 MR. BRUCE: Mr. Sohaney, I
12 believe, has had discussion with Phillips on this matter.

13 MR. CATANACH: Okay, is there
14 anything further in Case 9459 or 9460?

15 If not, they will be taken un-
16 der advisement.

17

18 | Hearing concluded.)

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C E R T I F I C A T E

I, SALLY W. BOYD, C. S. R. DO HEREBY
CERTIFY that the foregoing Transcript of Hearing before the
Oil Conservation Division (Commission) was reported by me;
that the said transcript is a full, true and correct record
of the hearing, prepared by me to the best of my ability.

Sally W. Boyd CSR

I do hereby certify that the foregoing is
a complete record of the proceedings in
the Examiner hearing of Case No. 9458, ⁹⁴⁶⁰
heard by me on August 17 1958.

David R. Catonah, Examiner
Oil Conservation Division