1 2	STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION STATE LAND OFFICE BLDG. SANTA FE, NEW MEXICO		
3	25 May 1988		
4	EXAMINER HEARING		
5			
6	IN THE MATTER OF:		
7			
8	Application of Standard Oil Product- CASE ion Company for an unorthodox oil 9386		
9	well location and directional drill- ing, Lea County, New Mexico.		
10			
11	BEFORE: Michael E. Stogner, Examiner		
12			
13	TRANSCRIPT OF HEARING		
14			
15	APPEARANCES		
16	For the Division: Charles E. Roybal		
17	Attorney at Law Legal Counsel to the Division		
18	State Land Office Bldg. Santa Fe, New Mexico 87501		
19	For the Applicant: Scott Hall		
20	Attorney at Law CAMPBELL & BLACK		
21	Post Office Box 2208 Santa Fe, New Mexico 87501		
22			
23			
23 24			

NAT - NA - 1 800 201 0 20

ALEGING CHANACL A THAT IS THE AGAINST A MAN

```
We'll call next
                                 MR.
                                      STOGNER:
2
   Case 9386.
3
                                                Case 9386.
                                 MR.
                                      ROYBAL:
                                                             Ap-
   plication of Standard Oil Production Company for an unortho-
5
   dox well location and directional drilling, Lea County, New
   Mexico.
                                 MR.
                                      STOGNER: Call for appear-
8
   ances.
9
                                 MR.
                                      HALL: Mr. Examiner, Scott
10
   Hall from the Campbell & Black law firm of Santa Fe on be-
11
   half of the applicant and I have three witnesses this morn-
12
   ing.
13
                                 MR.
                                      STOGNER:
14
                                                 Are there
                                                              any
   other appearances in this matter?
15
                                 Will all three witnesses please
16
   stand and be sworn at this time?
17
18
19
                         (Witnesses sworn.)
20
                          JAMES D. SIKES,
21
22
    being called as a witness and being duly sworn upon his
    oath, testified as follows, to-wit:
23
24
```

```
Α
                      I am.
1
                                                  the witness'
                                MR.
                                     HALL:
                                             Are
2
   qualifications acceptable?
3
                                     STOGNER:
                                                Mr. Sikes is so
                                MR.
   qualified.
                       Mr.
                            Sikes, if you would, won't you
   briefly recite what Standard seeks with this application?
7
                       We are seeking to drill a well in the
            Α
8
   north half of the northeast of Section 36, Township 16 South,
   37 East, at an unorthodox location of 1060 feet from the
10
   east line, 1300 feet for the north line to reach a target
11
   at 1180 feet from the east line and 1090 feet from the north
12
    line, and propose that we can stay within 150 feet of that
13
   target.
14
                      All right, what do you understand to be
            Q
15
    the effective pool rules for this location?
16
             Α
                       Pursuant to a well that we are currently
17
    in the process of completing in the northwest quarter of
18
    Section 36, we are now within a mile of Shipp Strawn Pool.
19
    Those pool rules call for drilling a well within 150 feet of
20
    a center of a quarter quarter section.
21
             Q
22
                        What is the location of that well
    just spoke of?
23
24
             Α
                        It's 1060 from the east line and 1300
25
    from the north line, which would put it almost on the bound-
```

BARCH FORM 25U-6P3 TOLL FREE IN CALFORNIA BOO 227 2434 NATIONN

```
ary line between the two quarter quarters.
                       Just about due west of this location?
            0
2
            Α
                       Yes.
3
                       And do you believe that that well
   going to be productive in the Shipp Strawn?
5
                       Yes.
6
                       All right. Mr. Sikes, have you (unclear
7
   portion of the tape) Exhibit One. Do you need a copy?
             Α
                        Exhibit One shows a compilation of an
9
    isopach map, a land map (unclear) for the subject well.
10
                        Is the location reflected on Exhibit
             Q
11
   One?
12
                       It is.
                                It is indicated by, I believe, a
             Α
13
    red circle, and the little X would indicate the bottom hole
14
    location.
15
                       All right, let's look at Exhibit Two, if
16
    you would. Would you identify those, please?
17
                       These are Oil Conservation Division Forms
             Α
18
    C-101 and C-102 prepared for the subject well.
19
                       All right, have they been filed with the
20
    Division as yet?
21
             Α
22
                       They have not. We are waiting for appro-
    val in this case -- matter --
23
24
             Q
                       All right.
25
             A
                        -- to file these. You will note on the
```

Form C-102 we have surveyed our location; however, we have not indicated the proration unit pending the outcome of this hearing.

Q Okay. Let's look at Exhibit Three, and I'll ask you is Exhibit Three a copy of the letters to all offsetting operators and unleased mineral interest owners that you've directed your counsel to send out in connection with this case?

A It is.

Q All right. Would you briefly explain to the Examiner what is Standard's acreage position with respect to this well and how the offsetting interest owners are affected by the location?

A Certainly. As you can see on the land plat portion of the Exhibit One in front of you, the acreage in Section 36 that is indicated in shaded solid yellow is our lease, State BB-0155. That lease would have the same ownership, being the State of New Mexico as the royalty owner and common ownership of Standard Oil Production Company as working interest owner.

To the north we're offset by various parties as shaded in hatched yellow there, it also indicates that Standard Oil has an interest in those tracts to the north.

Q All right, Mr. Sikes, if I understand it,

```
your unorthodox location is not a further encroachment to
1
   those interest owners on the north, is that correct?
                      On the contrary. We're going south from
            Α
3
   the northern location and any encroachment would be on our
   own lease.
5
                      All right, your lease to the south?
            Α
                      Correct.
7
                      Mr. Sikes, has Standard attempted to ob-
8
    tain waivers from the offsetting interest owners?
9
            Α
                      Yes, we have.
10
                      And are those reflected in Exhibit Three?
            0
11
                       Yes.
                              We've sent waivers out to all of
12
    the offset parties to the north and we've received waivers
13
   back, signed waivers from William B. Owen, Charles Gilles-
14
   pie, Jr., First Security Oil and Gas Corp., FESCO, Inc.,
15
   First Century Oil, Inc., Read & Stevens, Inc., and Charles
16
   B. Reed.
17
                      Let me ask you quickly, with respect to
18
   the waiver you received from Mr. Owen, do you know whether
19
   or not he was sent a certified notice of this application
20
                       He was not; however, pursuant to the
21
   waiver, we have no reason to believe he'll be in any opposi-
22
   tion.
23
24
            Q
                        Have you had verbal telephonic contact
   with Mr. Owen?
25
```

i			
1	A	Yes, we have.	
2	Q	And he was aware of the application?	
3	Α	Yes.	
4	Q	And even though he provided you with a	
5	waiver, that's correct?		
6	Α	Yes.	
7	Q	All right. Let's look at the final page,	
8	final two pages of Exhibit Three. What what does that		
9	show?		
10	A	This shows a breakdown of the working in-	
11	terest owners in Section 25, in the south half of Section 25		
12	to be exact. It is broken down by the southeast quarter of		
13	25 and the southwest quarter of 25.		
14	Q	All right, do you have anything further	
15	to add?		
16	A	No, I don't.	
17	Q	Mr. Sikes, in your opinion, do you be-	
18	lieve that grant	ing Standard's application will be in the	
19	best interest of conservation, the protection of correlative		
20	rights and prevention of waste?		
21	A	I do.	
22	Q	Did you participate or direct the prepar-	
23	ation of Exhibits	One through Three?	
24	A	I have.	
25		MR. HALL: At this time we'd	

BARCH FORM ESCIED) TOLLTHEE NIALFORNIA BOD 227 2434 NATIONWIDE BOD 221 0120

BARON FORM COLLERS TOLLFREE NICA, FORMIA BOOKET 2434 NATIONWIE

```
11
   waiver, which he has.
                       Which he has, and is it included in here?
            Q
2
                       It is.
            A
3
                       It is. Okay.
            \circ
                                 MR. STOGNER: I have no further
5
   questions of this witness. Will we be referring back to Ex-
6
   hibit Number One, Mr. Hall?
7
                                 MR. HALL: I doubt it.
8
                                 MR. STOGNER: Oh, we won't?
9
             Α
                       Yes, probably.
10
                                 MR. STOGNER: We will?
11
                       Probably.
             Α
12
                                 MR.
                                      STOGNER: I would think we
13
   would.
14
                                 MR. HALL: Oh, Exhibit One, I'm
15
    sorry. You're holding up Exhibit Three.
16
                                 MR.
                                      STOGNER:
                                                 Thank you, Mr.
17
   Hall.
18
19
                         KATHERINE SHANKS,
20
    being called as a witness and being duly sworn upon her
21
    oath, testified as follows, to-wit:
22
23
24
25
```

UNA TOWN TOWN ALLAS TANDER AND THE TANDER OF THE TANDER OF THE TANDER

C SCHOOL TAKE A CONTRACT CONTR

All right, why don't you refer to that Q and explain to the examiner what it's intended to show? One portion of Exhibit One contains 3 isopach map of the Lower Strawn limestone. The prospect is shown by an increase in the isopach thickness. 5 There's a direct correlation between isopach thickness and porosity development within a Strawn mound. 7 The map was constructed from available 8 well control and our own seismic which was shot over three 9 of the four legal locations in that quarter section. 10 For the areas shown on the isopach por-11 tion what is the primary producing interval in that area? 12 The Lower Strawn limestone. Α 13 All right. Ms. Shanks, how important is 14 isopach thickness in locating the well? 15 Α Again it's very important because there 16 is a direct correlation between isopach thickness and the 17 development of a porous facies in the Lower Strawn lime-18 stone. 19 The increased thickness defines the pro-20 posed -- the prospect and we've positioned the well to pene-21 trate the thickest portion of a proposed mound in that loca-22 tion. 23 24 All right. Would you elaborate as to how

you picked this particular location and why you believe that

a successful well may not necessarily be drilled at a standard location?

A The unorthodox location was proposed in order to penetrate the thickest portion of the isopach section, which again is relating to the development of porous facies.

The well cannot be drilled at a standard location because there is evidence from our mapping and seismic that the mound either does not exist in a standard location or is very thin.

Q Is there any general trending in the area?

A Porosity development tends to be very much facies related with very sharp boundaries. The gross Strawn limestone thickness increases from the south to the north in that particular sample.

Q All right, let's refer to the cross section portion of Exhibit One. Could you explain what that's intended to show?

A This is a northwest/southeast stratigraphic cross section across the proposed location. It shows the increase in thickness of the Strawn limestone as it relates to the development of a porous facies shown here in blue.

Porous facies tend to be again very dis-

25c : 6P3

crete bodies with very sharp edges.

1

BARGE FORM 250 6P3 1000 HREEN ALFORNIA BOX 221 2434 MATIONWILE BOX 221

```
were not able to establish economic production from that
   zone due to the poorly developed porosity in the well.
            Q
                      It would be the same as your other well,
3
   the Garrett State, Anderson No. 1 Garrett State Well.
                       The Garrett State did not have that
5
   porosity in the Strawn.
                            That well was drilled down to the
6
   Devonian and tested the Devonian and was subsequently a dry
7
   hole.
8
                       There is some indication of porosity on
9
   this old neutron log.
10
            Q
                      When was that well drilled, the Garrett?
11
            Α
                        I don't have an exact date but I would
12
   assume late 1960.
13
            Q
                      Okay.
14
                                 MR.
                                       STOGNER:
                                                    I
                                                        have
15
                                                             no
   further questions of this witness.
16
                                 Are there any other questions
17
   of Ms. Shanks?
18
19
                                 MR. HALL:
                                            No, sir.
                                 MR.
                                      STOGNER: If not, she may
20
   be excused.
21
                                 Mr. Hall?
22
23
24
25
```

BARON FORM 250 6P3 TOL, FREE IN CAL-FORNIA BOO 227 2434 NATIONWINE BOD 227 0120

```
STEPHEN GURLEY,
1
   being called as a witness and being duly sworn upon his
   oath, testified as follows, to-wit:
3
                         DIRECT EXAMINATION
5
    BY MR. HALL:
6
                       For the record please state your name.
7
             Α
                        My name is Stephen Gurley. I live in
 8
    Sugarland, Texas.
             Q
                       Mr. Gurley, who do you work for?
10
                       Standard Oil Production Company.
             Α
11
                       What do you do for Standard?
12
                       I'm a reservoir engineer.
             Α
13
                       Have you previously testified before the
14
    Division and had your credentials accepted?
15
                       Yes, sir, I have.
             Α
16
                                 MR.
                                       HALL:
                                               Mr.
                                                    Examiner, are
17
    the witness' credentials still acceptable?
18
             Α
                       Mr. Gurley is so qualified.
19
                           Gurley, did you also participate in
                       Mr.
20
    the creation of Exhibit One?
21
             Α
                       Yes, sir, I did.
22
                       All right why don't we refer to that and,
             0
23
    if you would, explain to the Examiner what that's intended
24
25
    to show?
```

RAMON FORM ISL BE 1 TOT, THEE N CALIFORNIA BOO LES ABLA NATIONNING BOO AND CO.

A I'll be referring mainly to the isopach map concerning the met porosity, which is highlighted in green. This indicates that our proposed bottom hole location is in the thickest part of the mound which -- we anticipate encountering around 60 feet of pay. If you look at the other legal locations that are available we have anticipated that we'll encounter either no porosity or considerably less porosity.

So we would like to have the well drilled in the unorthodox location in order to encounter the thickest part of the pay.

Q All right. Is it your recommendation that a production restriction be imposed against this well?

A No, sir. We feel that since we are trying to take advantage of the structural high and the thickness that -- and we're going away from the lease lines, that there should be no penalty imposed.

Q All right. If you would explain, why have you positioned the surface location of this well where it is shown on your forms?

A If we drilled three of the wells in the immediate area and all three of these wells have drifted north/northwest, we positioned the surface location to take advantage of the natural drift in the area or to lower the well cost.

Q Do you have anything further to add in connection with your testimony?

A No, sir.

Q Mr. Gurley, in your opinion do you believe that granting Standard's application will be in the best interest of conservation, the prevention of waste, and protection of correlative rights?

A Yes, sir.

MR. HALL: Nothing further in

10 this case.

1

2

3

5

7

9

11

12

14

15

16

17

18

19

20

21

22

23

24

25

## CROSS EXAMINATION

13 BY MR. STOGNER:

Now, Mr. Gurley, insofar as actually putting a downhole motor or such as that, that's not what you're proposing. You're just proposing that you keep tabs on your actual wellbore and let it follow the natural north/northwest --

A Yes, sir, all three other wells, there's two wells to the west -- three wells just immediately to the west, they've all drifted pretty much the same direction, north/northwest.

Q Okay, why don't you go into a little more detail, this drift that you're talking about. Does it start from the surface down or do you go underneath the interme-

BARUN 108M 25, 6P3 10, 148 E N.A. FORNIA BOO 227 2434 NATIONW DE BUOT

```
21
   the hole, what kind of drift you get?
                       No, not really.
2
                       If you see that you're going to be off of
3
   your target for one reason or the other, are you proposing
   then to artificially build angle or whatever you have to do
5
   to get it back within that 150-foot circle?
            Α
                       Yes, sir.
7
                                 MR. GURLEY: I have no further
8
   questions of Mr. Gurley.
                                 Are there any other questions
10
   of him?
11
                                 MR. HALL:
                                           No, sir.
12
                                 MR. STOGNER:
                                                He may be ex-
13
   cused.
14
                                 Is there anything further
                                                              in
15
   this case?
16
                                 MR. HALL: No.
17
                                 MR.
                                      STOGNER: If not, it will
18
   be taken under advisement.
19
20
                        (Hearing concluded.)
21
22
23
24
25
```

DANCE - CHANGE OF A LACE TO A TOWN A BUCK A SALE AND AND CONTRACT OF BOOK OF B

## CERTIFICATE

SALLY W. BOYD, C.S.R., DO 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 the best of my ability.

Socry W. Bayd COR

I do hereby confir that the foregoing is a complete moons of the proceedings in the Examiner hearing of Case No. 9386 neard by me on 25 May 19 88 Oil Conservation Division