

NEW MEXICO OIL CONSERVATION COMMISSION

EXAMINER HEARING

SANTA FE, NEW MEXICO

Hearing Date MAY 11, 1988 Time: 8:15 A.M.

NAME	REPRESENTING	LOCATION
W. Kellerman	Kellerman Kellerman Aubrey	Santa Fe
RL Hochen	OXY USA Inc	Tulsa, OK
Paul W. Benchell	El Paso Natural Gas	El Paso, TX
Bob Hulme	Byram	Santa Fe
Vic Bryan	OCD	Santa Fe
MIKE PIPPIN	UNION TEXAS PETR	FARMINGTON, NM
J. Bruce	Hinkle Law Firm	Santa Fe
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William L. Jay	Campbell + Black	Santa Fe
Earl L. Padilla	Padilla + Snyder	SF
Gary Green	SFEOP, LP	Midland, TX
JOE R. PARADISO	SFEOP, LP	Midland, TX
Donald Eckert	SFEOP, LP	Midland, TX
JERRY SILVERUD	OXY USA INC	MIDLAND TX
Eddie Rodriguez	State Oil & Gas	Roswell, NM
Dan Dutton	Cons. Engr	Santa Fe
Jens Hansen	Br... ST...	FT Worth

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<i>George A. Hillis</i>	<i>Bass Enterprises Prod Co</i>	<i>Font Worth</i>

1 STATE OF NEW MEXICO
2 ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
3 OIL CONSERVATION DIVISION
4 STATE LAND OFFICE BLDG.
5 SANTA FE, NEW MEXICO

6 11 May 1988

7 EXAMINER HEARING

8 IN THE MATTER OF:

9 Application of Siete Oil & Gas Cor- CASE
10 poration for a waterflood project, 9368
11 Eddy County, New Mexico.

12
13 BEFORE: David R. Catanach, Examiner
14
15

16 TRANSCRIPT OF HEARING
17

18 A P P E A R A N C E S
19

20 For the Division: Charles E. Roybal
21 Attorney at Law
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24 For the Applicant: Ernest L. Padilla
25 Attorney at Law
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I N D E X

EDDIE RODRIGUEZ

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MR. CATANACH: We'll call next
Case 9368.

MR. ROYBAL: Case 9368.
Application of Siete Oil and Gas Corporation for a
waterflood project, Eddy County, New Mexico.

MR. PADILLA: Mr. Examiner,
Ernest L. Padilla, Santa Fe, New Mexico, for the applicant.

I have one witness to be sworn.

MR. CATANACH: Any other ap-
pearances?

Will the witness please stand
to be sworn in?

(Witness sworn.)

EDDIE RODRIGUEZ,
being called as a witness and being duly sworn upon his
oath, testified as follows, to-wit:

DIRECT EXAMINATION

BY MR. PADILLA:

Q Mr. Rodriguez, for the record would you
please state your name and where your reside?

A Mr. Padilla, my name is Eddie Rodriguez.

1 I currently live in Roswell, New Mexico.

2 Q Mr. Rodriguez, who do you work for?

3 A I'm currently employed by Siete Oil and
4 Gas Corporation in Roswell.

5 Q What are your duties with Siete Oil and
6 Gas Corporation?

7 A I am -- my present position with Siete
8 Oil and Gas Corporation is that of production reservoir en-
9 gineer; basically just all phases of engineering with regard
10 to waterfloods, or economic evaluations, whatever it might
11 be.

12 Q Mr. Rodriguez, do you -- have you pre-
13 viously testified before the Oil Conservation Division?

14 A No, sir.

15 Q Tell us, sir, where you received your de-
16 gree.

17 A Yes, sir. I'm a 1981 graduate of the
18 University of Texas at El Paso with a Bachelor of Science in
19 civil engineering.

20 Q What is your oil and gas experience?

21 A My previous oil and gas experience is --
22 includes 5-3/4 years which I spent with Conoco, Incorpor-
23 ated, in the Hobbs Division, working both the oil and gas
24 fields of southeast and northwest New Mexico.

25 And for the past 7 months I've been em-

1 ployed by Siete Oil and Gas in Roswell.

2 Q Mr. Rodriguez, did your duties with Cono-
3 co include waterflood projects?

4 A Yes, sir. I was assigned at three dif-
5 ferent times to three different waterfloods and my purpose
6 there was to basically monitor waterflood performance and do
7 well conversion from producing over to injection in order to
8 maximize the efficiency of that waterflood.

9 Q Mr. Rodriguez, have you made a study and
10 are you familiar with the application in the case we're
11 going to present here today?

12 A Yes, sir.

13 MR. PADILLA: Mr. Examiner, we
14 tender Mr. Rodriguez as an expert witness in petroleum en-
15 gineering.

16 MR. CATANACH: He is so quali-
17 fied.

18 Q Mr. Rodriguez, let's turn now to Exhibit
19 Number One, which is the C-108 that you have submitted with
20 your application in this case and I ask you, sir, to first
21 of all turn to the area map, which I believe is the fourth
22 or fifth -- fourth page of this C-108 and have you explain
23 that for the Examiner.

24 A Sir, this map basically shows the Black-
25 hawk lease, which includes the southeast quarter under Sec-

1
2 tion 23, 18, 31; the southwest quarter under Section 24, 18,
3 31, and the southeast of the northwest quarter of Section
4 24, 18, 31; this all in Eddy County, New Mexico.

5 Q And is that all one lease?

6 A Yes, sir.

7 Q Is that a Federal lease?

8 A Yes, sir.

9 Q Have you communicated with the BLM con-
10 cerning this application?

11 A Yes, sir.

12 Q And what is the -- what is the basis of
13 your -- what was the contents or subject matter of your com-
14 munication?

15 A I established communication with Mr.
16 Shannon Shaw in Carlsbad with the BLM, basically explaining
17 to him what we were doing. We went ahead and sent him a
18 sundry notice with our intention to establish a waterflood
19 and also sent him a copy of this information which we have
20 (unclear) to the Commission, and just talking to him this
21 past Friday, he communicated that he basically saw no objec-
22 tions to what we were doing and we anticipate receiving an
23 approval from the BLM.

24 Q Okay, let's go around and look at this
25 map and tell us who the offset operators are, please.

A Okay. We're currently offset to the east

1 by primarily West -- Mr. Westall, the (not clearly under-
2 stood).

3 Okay. Our east offset is the Keohane
4 (sic) Federal No. 2, which is operated by Mr. -- or by West-
5 all/Mask, and this southeast quarter of Section 24, the
6 shallow rights are operated by them and they are currently
7 Grayburg completions.

8 To the northwest is some ARCO acreage.
9 They don't have any wells drilled on it right now.

10 Q Do you have a farmout from ARCO for the
11 acreage that is the waterflood application?

12 A Yes, sir.

13 Q Okay.

14 A We have an ARCO farmout which is north of
15 the Blackhawk Federal lease and those wells right now are
16 Grayburg producers. They are not Penrose producers.

17 Q Okay. How about to the south of the yel-
18 low area, who operates those lands in Section --

19 A That is also operated by Westall/Mask.

20 Q Okay. Have you received any objections
21 from ARCO or from Westall/Mask concerning this application?

22 A We have not received any objection from
23 ARCO. We have received a call from Mr. Jennings, which rep-
24 resents Westall/Mask and does have an interest in these
25 wells, basically saying that he has no objections to this

1 waterflood.

2 Q In fact, you may benefit their acreage to
3 the southeast, in the southeast of Section 24, isn't that
4 correct?

5 A That is correct.

6 Q Okay, let's go on now to the page follow-
7 ing the C-108 where you have started outlining the informa-
8 tion for Roman Numeral III of the C-108. Would you discuss
9 that page briefly for the Examiner, please?

10 A This information right there is tabular
11 data for the Blackhawk Federal No. 3 Well, which we plan to
12 convert over to injection.

13 Basically what it shows, it shows the
14 well name, the well number, the legal description of the
15 well, which is 2040 feet from the south line, 920 feet from
16 the west line of Section 24, 18, 31, in Eddy County, New
17 Mexico.

18 Casing record, 8-5/8ths inch casing set
19 at 351 feet with 500 sacks of cement circulated to surface.

20 We have 5-1/2 inch production casing set
21 at 4498 feet with 1985 sacks of cement circulated to sur-
22 face.

23 We plan to pull the existing production
24 tubing from the well and install a Baker Model AD-1 injec-
25 tion packer, or equivalent, at a depth of approximately 3670

1 feet, and we will also install above that packer, we will
2 have 2-3/8ths inch internally plastic-coated tubing. We in-
3 tend to load the back side with packer fluid to minimize any
4 kind of external commotion in this tubing.

5 Other information which is related to
6 this well, it's presently completed in the Queen-Penrose in-
7 terval from 3722 through 3747 and this will be the injection
8 interval. It's the Shugart-Yates-Seven Rivers-Queen-Gray-
9 burg-San Andres Field an the Blackhawk Federal No. 3 Well
10 was originally drilled for oil and gas production and there
11 are no other perforated or tested intervals in this well at
12 the time.

13 Q Mr. Rodriguez, this well currently pro-
14 duces oil and gas, isn't that correct?

15 A Yes, sir.

16 Q How much production are you experiencing
17 from this well?

18 A The Blackhawk Federal No. 3 Well current-
19 ly produces approximately 11 barrels of oil per day, 4 bar-
20 rels of water per day and 49 MCF of gas per day; however
21 this well is exhibiting a very steep decline, approximately
22 in excess, actually, of 35 percent per year and has very
23 (not clearly understood).

24 Q How about the other wells surrounding it?
25 Well, let's go on now to the -- your -- the wells that you

1 propose to be the recovery wells, and you might turn to the
2 map as well on the -- and tell the Examiner which are those
3 recovery wells?

4 A The wells which will be benefiting from
5 the conversion of the Blackhawk Federal No. 3 to injection
6 will be the Blackhawk Federal No. 1, which is in the
7 northeast quarter of the southwest quarter of Section 24;
8 Blackhawk Federal No. 2, which is in the southwest quarter
9 of the northwest quarter of Section 24; and the Blackhawk
10 Federal No. 5, which is at present a Grayburg completion and
11 however, once response is felt on the other, for example,
12 Blackhawk Federal No. 1 and No. 2, this well will be
13 recompleted to the Penrose and simultaneously produced with
14 the Grayburg.

15 Q Mr. Rodriguez, I notice that there is a
16 well in the southwest quarter of the northwest quarter of
17 Section 24. Is that well going to be a recovery well?

18 A Sir, this well was originally drilled and
19 it was tested in the Grayburg formation, which is deeper
20 than the Penrose, and it was -- we did find commercial
21 production there.

22 We perforated the Penrose interval. That
23 zone had minimal amounts of hydrocarbons in it. It may
24 receive some benefit from the waterflood but at this time it
25 does produce only in Penrose interval.

1 Q So basically it's your testimony that the
2 Penrose formation may be unproductive in that wellbore.

3 A Yes, sir.

4 Q How much additional oil will you recover
5 that would not otherwise -- that would not otherwise be re-
6 covered were it not for the waterflood project?

7 A We anticipate recovering incremental se-
8 condary reserves of approximately 94,000 barrels of oil from
9 the three wells which will be benefitting from this commer-
10 cial injection in the Blackhawk Federal No. 3.

11 Q And that oil is oil that would not other-
12 wise be produced.

13 A Yes, sir, that is correct.

14 Q And then do you believe that you will al-
15 so recover the current 13 barrels that you're going to be
16 losing as a result of converting the well into an injection
17 well?

18 A Yes, sir, that is correct.

19 Q Let's go on now, sir, to the schematic
20 that was the following page and have you tell the Examiner
21 the relevant data that you believe is necessary for the Di-
22 vision's knowledge.

23 A Basically this wellbore schematic here
24 represents what was outlined in the tabular data for the
25 Blackhawk Federal No. 3. It shows again the casing depths,

1 our proposed packer setting. I do indicate there we will be
2 using plastic-lined tubing, internally plastic-lined tubing,
3 and it also shows our currently perforated interval in that
4 well, which will be the injection interval in this water-
5 flood unit.

6 Q Okay. Let's now go on and skip through
7 -- go on through the long pages of the C-108 and tell us
8 what that -- that information contains.

9 A This information is basically tabular da
10 ta of all the wells which fall within a one-half mile radius
11 surrounding the Blackhawk Federal No. 3 and what this sheet
12 shows is -- it shows operator name, well name, the date it
13 was spudded, legal location for these wells, whether or not
14 oil and gas, it's present TD, its casing settings and sack
15 amount of cement used to set this casing, and the present
16 completion interval and perforation -- perforated interval.

17 Q Mr. Rodriguez, does this list show that
18 there is adequate protection between the injection interval
19 and any other oil and gas producing zone in the area?

20 A Yes, sir.

21 Q Or in the wells listed in this list?

22 A Basically what this thing shows is that
23 most of the wells that were currently -- that currently ex-
24 ist in the Blackhawk Federal Unit are all circulated to sur-
25 face, I mean the cement used in production casing installa-

1 tion was circulated to surface and we have excellent bonding
2 across all these wells. We do run (unclear) in all our com-
3 pletions and should be adequate protection against this
4 water going to any other zones.

5 Q How about fresh water in the area, can
6 you tell us anything about your investigation regarding
7 fresh water in the area?

8 A There are presently no fresh water or
9 known fresh water sources in this particular area. One
10 proof of that is the fact that Siete Oil and Gas has open
11 pit disposal, approved open pit disposal, and those pits are
12 located on the Blackhawk Federal lease, and this is (not
13 clearly understood) lease (not clearly understood).

14 Q And this is an exception to the general
15 order of the Oil Conservation Commission which prohibits
16 surface disposal, is that correct?

17 A Yes, sir.

18 Q Let's go on now to the schematics that
19 you have attached following the long sheets on the C-108 and
20 have you explain those to the Examiner.

21 A Those are schematics, or wellbore schema-
22 tics, basically showing two plugged and abandoned wells that
23 currently exist in the Blackhawk Federal lease, the first
24 one here being the Blackhawk Federal No. 6 Well, which was
25 plugged and abandoned by Siete Oil and Gas in November of

1 1987 after it was tested noncommercial in the Grayburg in-
2 terval. There was no Penrose interval to be tested, so
3 therefor -- thereby we went ahead and plugged this well.

4 The second schematic I'm showing you is
5 the Blackhawk Federal No. 4 Well, which is located to the
6 south of the Blackhawk Federal No. 3 Well, which we intend
7 to convert to injection. And this Blackhawk Federal No. 4
8 was originally drilled to a total depth of 4500 feet. It
9 was determined to have noncommercial pay in the Grayburg -
10 Penrose intervals by conventional log analysis, thereby the
11 well was plugged.

12 Q Okay. Let's go on now to the portion of
13 the C-108 that deals with Roman Numerals VII and VIII and
14 have you tell the Examiner what information that contains
15 regarding injection rates and pressures.

16 A Under Roman Numeral VII basically what
17 I'm showing is the anticipated injection rates which will be
18 going into the Blackhawk Federal No. 3 Well and that is ap-
19 proximately 300 barrels of water per day.

20 The maximum rate of water which we plan
21 or may ever inject into this well is 500 barrels of water
22 per day, which is the maximum (not clearly understood) of
23 those (unclear) pumps which we will be installing for injec-
24 tion.

25 The injection station for gathering (un-

1 clear) injection water will be a closed system.

2 Q What's the significance of a closed sys-
3 tem, Mr. Rodriguez?

4 A Basically what we're going to be doing is
5 gathering water which would otherwise be disposed into the
6 open pits and processing it for injection, basically the ad-
7 dition of oxygen scavengers (sic) and any scale additives
8 which may be necessary to maintain a clean water source with
9 no significant oxygen bubbles in it.

10 Q Okay.

11 A The injection pressures, the anticipated
12 injection pressure is approximately 370 psi; however, if --
13 since we have no available core data, if that formation
14 tends to be a little tighter than anticipated and we need to
15 increase our pressure, we will not exceed 740 psi per foot,
16 which is advised by the .2 psi per foot maximum injection
17 pressure imposed by the NMOCD.

18 Any necessary increases above this pres-
19 sure will be obtained be obtained administratively from the
20 NMOCD using the step rate test data.

21 Q At what is -- at what pressure do you es-
22 timate that the formation will be fractured by injection
23 pressures?

24 A Since we have considerable experience in
25 working on these wells in the area, we anticipate that the

1 pressure, parting pressure would approximately 400 pounds on
2 surface.

3 Q So even if you exceed the 740 psi you
4 don't expect damage to the formation until you reach some-
5 where about 1200 psi?

6 A Yes, sir.

7 Q Okay. Go ahead with your testimony, sir.

8 A What this number 4 there shows is we will
9 be injecting water into the Blackhawk Federal No. 3 from --
10 which is produced water from offsetting Siete operated
11 leases, those being the Geronimo Leases, Inca Leases, and
12 which currently produce from the Grayburg and Delaware for-
13 mations.

14 Q These are adjoining leases, Mr. Rodri-
15 guez?

16 A Yes, sir.

17 Q And have you conducted water compatibil-
18 ity tests for this injected water?

19 A Yes, sir. There is a letter attached
20 from Mr. Dave (unclear) with (unclear) Chemicals there in
21 Hobbs who went out and took water samples from the leases
22 which we will be injecting water into this Blackhawk Federal
23 3, and we also took a water sample from our Siete operated
24 Scotsdale leases, which are Penrose completion; the reason
25 being we chose -- or we had to use that Penrose water sample

1 as the Blackhawk Federal leases do not produce any water, we
2 were not able to obtain a water sample from the Blackhawk
3 leases; thereby we had to use offsetting Siete operated
4 leases in the Penrose and then we mixed this water, Penrose
5 water, and the water sources which we'll be using for injec-
6 tion, and he determined that the scaling (unclear) were very
7 low and therefor he does not anticipate us having any prob-
8 lems.

9 He does recommend that we make sure that
10 we free this water of oxygen before we inject it.

11 Q And you're going to do that?

12 A Yes, sir.

13 Q Okay. Let's go back now and have you
14 discuss in general the geologic data that you have attached
15 here on the final page of -- with regard to Roman Numeral
16 VIII. Tell us about that geology.

17 A A basic description of that reservoir,
18 that Penrose reservoir which we intend to waterflood, it's
19 an east/west trending stratigraphic trap. It's small in
20 nature and it's been -- its reservoir limits have been well
21 outlined by Siete's drilling in the area.

22 This Penrose sand is a fine to medium
23 grade sandstone of the Guadalupe Series, Permian age. It
24 exists at an average depth of 3723 feet, which is approxi-
25 mately -16 feet subsea; has a gross average thickness of 200

1 feet and the net effective pay is approximately 8 feet, and
2 again there are no sources of drinking water overlying or
3 underlying this reservoir.

4 Q Is, Mr. Rodriguez, is the sandstone that
5 you discussed, is that conducive to a waterflood?

6 A Yes, sir, this sandstone of this nature,
7 especially exhibiting the other qualities which it did, upon
8 initial completion the GOR was initially 1000 standard cubic
9 feet to 1 barrel of oil. This GOR has progressively gone
10 up, as I said. The wells themselves exhibited a very steep
11 decline in production and those -- the offsetting or water-
12 floods in the area have demonstrated they are very receptive
13 to waterflooding.

14 Q Okay. Mr. Rodriguez, in your opinion
15 would approval of this application be in the best interest
16 of conservation of oil and gas?

17 A Yes, sir.

18 Q And would correlative rights be impaired
19 in any way by approval of this application?

20 A No, sir.

21 MR. PADILLA: Mr. Examiner --
22 well, let me go on to Exhibit Number Two.

23 Q I hand you Exhibit Number Two and have
24 you tell us what that is, Mr. Rodriguez?

25 A Exhibit Number Two is the verification

1 that we did notify ARCO Oil & Gas, Mr. Westall and Mr.
2 Jennings as to the fact that we were approaching the
3 Commission for approval to install this waterflood in the
4 Blackhawk lease, and, as I mentioned earlier, there has been
5 no objection from any of these parties.

6 MR. PADILLA: Mr. Examiner, we
7 tender Exhibits One and Two and we tender the witness for
8 cross examination.

9 MR. CATANACH: Exhibits One and
10 Two will be admitted into evidence.

11

12 CROSS EXAMINATION

13 BY MR. CATANACH:

14 Q Mr. Rodriguez, that's Federal land, is
15 that correct?

16 A That is correct.

17 Q So there is no surface owner, just the
18 BLM, it's not leased (not clearly audible).

19 A No, sir.

20 Q You said that your Blackhawk No. 3 is
21 currently producing at a decline of 35 percent per year?

22 A Yes, sir.

23 Q What are your other wells currently pro-
24 ducing in the area?

25 A Blackhawk Federal No. 1, which offsets

1 that Blackhawk Federal No. 3, currently produces about 7
2 barrels a day and it is also showing a very significant de-
3 cline.

4 Blackhawk No. 2 produces approximately 4
5 barrels a day and the Blackhawk Federal No. 5, which as I
6 mentioned, is a Grayburg completion, is producing about 20
7 barrels a day roughly.

8 Q So they can all be considered as marginal
9 wells?

10 A Yes, sir.

11 Q You said when you get response to the
12 waterflood you're going to complete the No. 5 in the Penrose
13 and produce both zones together, the Penrose and the Gray-
14 burg --

15 A Yes, sir.

16 Q -- is that correct?

17 A They're (not understood), basically open-
18 ing up that additional pay will be, I guess, in compliance
19 with Commission rules and basically we'll just approach this
20 matter using good waterflood practices, basically pumping
21 your wells off and keeping any cross flow between those two
22 areas.

23 Q Is the Grayburg currently being flooded
24 out here?

25 A Not in the immediate area.

1 Q The -- you also said you had some pro-
2 ducing wells up in the northwest quarter of 24?

3 A Yes, sir.

4 Q Are those -- are those also in the same
5 pool?

6 A Yes, sir, they are in the same pool, the
7 ARCO Federal No. 1 and the ARCO Federal No. 2, which is
8 operated by Siete. Both of them are currently producing
9 from the Grayburg interval.

10 Q Those are both current Grayburg produ-
11 cers, you say?

12 A Yes, sir.

13 Q They've never been completed or produced
14 in the Penrose?

15 A The ARCO Federal No. 1 is open in the
16 Penrose; however, when we opened up this interval, basically
17 swabbed down to nothing, had very small amounts of hydrocar-
18 bons in it. It's still open; however it does not contribute
19 anything towards production in this well.

20 Q Have you conducted any kind of injectiv-
21 ity tests on the No. 3 or --

22 A Not at the moment. Basically reservoir
23 pressure has dropped approximately 250 psi at this time and
24 our estimated permeability is approximately 50 millidarcies,
25 so I anticipate once we put this waterflood, or activate

1 this waterflood, we'll probably be taking water on vacuum
2 for a period of time.

3 Q Okay, and all you're requesting is the .2
4 psi per foot initially, right?

5 A Yes, sir.

6 Q Mr. Rodriguez, you said on all the wells
7 that you've drilled in this area you -- you do -- you run
8 cement bond logs on those?

9 A Yes, sir.

10 Q Can I get you to submit cement tops from
11 the bond logs on these wells?

12 A There are no cement tops; they are all
13 circulated to surface.

14 Q On the production string?

15 A Yes, sir.

16 Q They're all circulated?

17 A Yes, sir.

18 Q Mr. Rodriguez, how long before you see
19 some response, do you think?

20 A Basically we anticipate it will take at
21 least a year before we see any response from this water-
22 flood, the reason being is that the preventing premature
23 water fingering on over to our producing wells. We intend
24 to maybe cut that average 300 barrels of water per day down
25 to about 150 to keep from reaching the producers prematurely

1 since all those wells were artificially hydraulically
2 fraced.

3 MR. CATANACH: That's all the
4 questions I have.

5 MR. PADILLA: Mr. Examiner, if
6 I may, if the Division is amenable to approving this appli-
7 cation, we would request that any difference between the 740
8 psi based on the .2 psi limitation, and the 1200 psi parting
9 pressure would be authorized administratively without having
10 to come back for a hearing in that range.

11 MR. CATANACH: Yeah, that's
12 part of the typical order, Mr. Padilla. The language is in
13 the step rate tests.

14 Anything further in this case?
15 If not, it will be taken under
16 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 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. 9368, heard by me on May 11 1988.

David R. Catman, Examiner
Oil Conservation Division