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1	STATE OF NEW MEXICO
2	ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
3	OIL CONSERVATION DIVISION
4	
5	IN THE MATTER OF THE HEARING)
6	CALLED BY THE OIL CONSERVATION) DIVISION FOR THE PURPOSE OF) CONSIDERING:) CASE NO. 10,868
7	APPLICATION OF KINLAW OIL CORPORATION
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11	REPORTER'S TRANSCRIPT OF PROCEEDINGS
12	EXAMINER HEARING
13	
14	BEFORE: MICHAEL E. STOGNER, Hearing Examiner
15	
16	November 18, 1993
17	Santa Fe, New Mexico
18	ORIGINAL
19	ONIGINAL
20	This matter came on for hearing before the Oil
21	Conservation Division on Thursday, November 18, 1993, at
22	Morgan Hall, State Land Office Building, 310 Old Santa Fe
23	Trail, Santa Fe, New Mexico, before Steven T. Brenner,
24	Certified Court Reporter No. 7 for the State of New Mexico.
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1	APPEARANCES
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3	FOR THE DIVISION:
4	ROBERT G. STOVALL Attorney at Law
5	Legal Counsel to the Division State Land Office Building
6	Santa Fe, New Mexico 87504
7	
8	FOR THE APPLICANT:
9	CAMPBELL, CARR, BERGE & SHERIDAN, P.A. Attorneys at Law
10	By: TANYA M. TRUJILLO Suite 1 - 110 N. Guadalupe
11	P.O. Box 2208 Santa Fe, New Mexico 87504-2208
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WHEREUPON, the following proceedings were had at 1 9:50 a.m.: 2 EXAMINER STOGNER: The hearing will come to 3 4 order. Call next case, Number 10,868. 5 MR. STOVALL: Application of Kinlaw Oil 6 Corporation for a high angle/horizontal directional 7 drilling pilot project, special operating rules therefor, 8 and an unorthodox well location, Lea County, New Mexico. 9 EXAMINER STOGNER: Call for appearances. MS. TRUJILLO: May it please the Examiner, my 10 name is Tanya Trujillo with the Santa Fe law firm Campbell, 11 Carr, Berge and Sheridan. We represent Kinlaw Oil 12 Corporation in this Application, and I have one witness. 13 EXAMINER STOGNER: Are there any other 14 15 appearances? (Thereupon, the witness was sworn.) 16 17 MS. TRUJILLO: Thank you. MICHAEL R. HILL, 18 the witness herein, after having been first duly sworn upon 19 20 his oath, was examined and testified as follows: 21 DIRECT EXAMINATION 22 BY MS. TRUJILLO: 23 0. Could you state your name for the record, please? Α. Michael Robert Hill. 24 And where do you reside? 25 Q.

4

1	A. Austin, Texas.
2	Q. By whom are you employed and in what capacity?
3	A. Kinlaw Oil Corporation as a petroleum geologist.
4	Q. Mr. Hill, have you previously testified before
5	the Oil Conservation Division?
6	A. Yes, I have.
7	Q. And at that time were your credentials accepted
8	and made a matter of record?
9	A. Yes, they were.
10	Q. Thank you. Mr. Hill, are you familiar with the
11	Application filed in this case?
12	A. Yes, I am.
13	Q. And are you familiar with the proposed well in
14	the subject area?
15	A. Yes, I am.
16	MS. TRUJILLO: Mr. Stogner, are the witness's
17	qualifications acceptable?
18	EXAMINER STOGNER: They are.
19	Q. (By Ms. Trujillo) Mr. Hill, could you briefly
20	state what you seek with this Application?
21	A. Yes, we seek approval to horizontally drill the
22	Mexico "F" Well Number 2, located at 1980 feet from the
23	north line and 1980 feet from the east line of Section 2,
24	Range 37 East, Township 15 South.
25	Q. Okay. Is Kinlaw seeking any exceptions to the

1	Division well location requirements?
2	A. No, we are not.
3	Q. Have you determined the exact location of your
4	horizontal kickoff?
5	A. Yes, we have. We've run a gyro in this well,
6	prior to squeezing off some old perforations, and at the
7	point of kickoff, the wellbore is situated at a location
8	210 feet south and approximately nine feet east of the
9	surface location.
10	EXAMINER STOGNER: 210 foot south and what?
11	THE WITNESS: Nine feet east.
12	EXAMINER STOGNER: Nine feet east. Okay, I'm
13	sorry. Thank you.
14	Q. (By Ms. Trujillo) Okay. Mr. Hill, is Kinlaw
15	seeking any exemptions from the acreage dedication
16	requirements?
17	A. No, we are not.
18	Q. And is Kinlaw seeking any exemptions from the oil
19	well allowable requirements?
20	A. No, we are not.
21	Q. Okay. Mr. Hill, please state the reason for this
22	Application.
23	A. We are seeking to go into this well and hopefully
24	extend the life of this field and increase recoveries from
25	this reservoir.

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1	Q. Okay. What Is there existing production in
2	this field at this time?
3	A. Yes, there is. There are a limited number of
4	wells that are still producing from the Devonian. Kinlaw
5	owns two additional wells on their acreage that are
6	producing from the Devonian.
7	Q. Okay. Mr. Hill, if this Application is granted
8	and the well is horizontally drilled, what results do you
9	expect?
10	A. We expect to have a well that will hopefully
11	produce its allowable and also hope to extend the life of
12	the field by recovering oil that's been left in place.
13	Q. Okay. Can we move to Exhibit 1, please? Could
14	you identify and review what has been marked Kinlaw Exhibit
15	Number 1?
16	A. Yes, Exhibit Number 1 is a leasehold map showing
17	Kinlaw's lease position in this field, everything in
18	yellow, and also the 40-acre proration unit in red belongs
19	to Kinlaw. Everything else is also All the other wells
20	surrounding the Kinlaw acreage is also noted by the
21	operator of record.
22	Q. Okay. And as you mentioned, the proposed well is
23	located there in red. Could you state again the exact
24	location of that well?
25	A. Yes, that the surface hole location is 1980

feet from the north line and 1980 feet from the east line
of Section 2, Range 37 East, Township 15 South. Our
proposed bottomhole location for this well will be 1650
feet from the north line and 2310 feet from the east line.
Q. Okay. And what is the acreage that you plan to
dedicate to this well?
A. Forty acres.
Q. Okay. This map also identifies the offsetting
operators; is that correct? Owners?
A. That's correct.
Q. Could you state the offsetting operators, please?
A. Yes, to the north of our 40 is Kinlaw, to the
west is Devon, directly to the east is Cody Energy, to the
south and east is Pennzoil and Chevron.
Q. Okay. Has notice been given to the offset
operators of your intentions here?
A. Yes, it has.
Q. And the status of the acreage you propose to
dedicate is all Kinlaw; is that correct?
A. That's correct.
Q. And there's a common working interest and royalty
interest; is that correct?
A. That's correct.
Q. And what is the current development status of the
acreage?

	3
1	A. The proposed work is the only development planned
2	for this 40-acre unit.
3	Q. Okay. And you are attempting there to re-enter
4	an abandoned well, correct?
5	A. That's correct. This well was temporarily
6	abandoned, and for the last couple years we have planned on
7	re-entering it and opening up a window and kicking off.
8	Q. Okay. Mr. Hill, could you please describe the
9	general characteristics of the formation in this area?
10	A. Yes, the Devonian is a shallow-water carbonate
11	consisting of a white densely crystalline dolomite,
12	characteristically very fractured, and it contains an
13	abundant amount of vugular porosity.
14	Q. Okay. Could we move to Exhibit Number 2, please?
15	Would you identify and review this for the Examiner?
16	A. Exhibit Number 2 is a structure contour map on
17	the top of the Devonian. Our leasehold is situated in the
18	north half of Section 2. The proposed well that we plan on
19	re-entering and going horizontally in is highlighted in
20	yellow.
21	This is actually a double anticlinal feature.
22	There's two structural high positions on this field, one to
23	the northeast of us and one to the southwest. The location
24	of this well is on the north end of the southwesternmost
25	feature. This anticline is bounded on the east and west

side by north/south trending faults. 1 And could you please explain the Okav. 2 Q. significance of this structure for your drilling project? 3 We think that being structurally high is Α. 4 important, which is why we are drilling the highest well on 5 our lease. We don't necessarily think that's the most 6 important thing contributing to making a successful well. 7 These wells have quite a thick pay interval, but we would 8 like to stay as high as possible in the Devonian. 9 If we move on to Exhibit 3, could you 10 0. Okav. identify and review Exhibit 3, please? 11 Exhibit 3 is a net pay isopach map above the 12 Α. 13 original oil/water contact, which is a minus 8915 in this 14 field. 15 Once again, this is a double anticlinal feature. The northeastern end of this field has a net pay of close 16 to 750 feet on the highest point; and on the southwestern 17 part of the field, south of our lease, there is upwards of 18 1500 feet of net pay. At our location, proposed location, 19 we have approximately 748 feet of oil column. 20 And Mr. Hill, based on this map of the formation, 21 Q. 22 do you believe that you have a suitable formation for horizontal drilling? 23 Yes, we do. 24 Α. Do you foresee any problem being able to keep the 25 0.

1	wellbore within the formation?
2	A. No, we do not.
3	Q. Okay. Mr. Hill, do you have an idea of what the
4	cumulative production for the Denton field is?
5	A. Yes, I do. It's right at 98 million barrels
6	produced out of approximately 118 wells.
7	The north half of Section 2, which our lease
8	consists of, has produced over 7 million barrels out of
9	eight wells, and the well that we are proposing to re-enter
10	has made over 843,000 barrels.
11	Q. And what in addition do you hope to achieve with
12	this horizontal drilling project?
13	A. As stated earlier, we hope to recover reserves
14	that could have possibly been left behind.
15	Q. And you intend the well to produce its allowable?
16	A. Yes, we do.
17	Q. Based on your geological review of this field,
18	what conclusions have you reached?
19	A. We feel like this field is a perfect application
20	for horizontal drilling and that the field meets all the
21	requirements needed for making this a successful project.
22	Q. Could we move to Exhibit Number 4 now? Would you
23	identify and review that, please?
24	A. Exhibit Number 4 is a wellbore diagram of the
25	proposed re-entry well 1.

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1	There is a 13-3/8-inch casing set at
2	approximately 338 feet. The well has 9-5/8-inch casing set
3	at 4800 and has 5-1/2-inch casing set at 12,840 feet.
4	Original perforations in this well are noted in
5	red, along with locations of bridge plugs, and/or squeeze
6	jobs that have been performed prior to the time we took
7	this well over.
8	We have recently re-entered this well and done a
9	squeeze job in the uppermost part of the wellbore of the
10	Devonian, excuse me where we've squeezed off the
11	perforations from 12,000 to 12,112 feet. At this point we
12	are preparing to go in and drill this squeeze job out and
13	open up a window to kick off horizontally.
14	Q. And what depth was that again?
15	A. We are going to proposing to kick this well
16	off at a depth of 12,019 feet.
17	Q. Okay, thank you. Mr. Hill, as to the horizontal
18	drilling portion of this hole, would Kinlaw be using the
19	identical procedure that was reviewed on August 26th by Mr.
20	David Phillips in Case Number 10,806?
21	A. Yes, we will.
22	Q. And was the horizontal drilling testimony of Mr.
23	Phillips accepted at the September 23rd hearing when you
24	testified?
25	A. Yes, it was.

	13
1	Q. Thank you. And you will remain within the
2	setback from the outer boundary of the dedicated acreage;
3	is that correct?
4	A. That's correct.
5	Q. 330 feet?
6	A. That's correct.
7	MS. TRUJILLO: Mr. Stogner, at this time I
8	request that the testimony of Mr. David Phillips in Case
9	Number 10,806, presented on August 26th, concerning
10	horizontal drilling techniques, be incorporated into the
11	record of this proceeding.
12	EXAMINER STOGNER: The record in Case 10,806
13	Division Order Number R-9989 was issued in that case, but
14	that was dismissed, but that was a full hearing, and
15	testimony was presented at that time, I do remember that.
16	So the testimony in that record will be admitted I'm
17	sorry
18	MS. TRUJILLO: Thanks.
19	EXAMINER STOGNER: made part of the record in
20	this case.
21	MS. TRUJILLO: Thank you.
22	Q. (By Ms. Trujillo) Mr. Hill, do you anticipate
23	that the acreage dedicated to this well will in fact be
24	drained by this well?
25	A. Yes, I do.

1	Q. Do you expect there to be any excess drainage
2	from the offsetting tracts?
3	A. No, I do not.
4	Q. If this well is successful, what do you
5	anticipate will be the producing life of this well?
6	A. Seven to ten years.
7	Q. At the conclusion of the drilling, will you run a
8	directional survey on the well and provide a copy to the
9	Oil Conservation Division?
10	A. Yes, we will.
11	Q. Mr. Hill, how soon does Kinlaw hope to commence
12	this project?
13	A. We hope to commence right away. We actually have
14	a rig on the well at the present time. We've done our
15	squeeze job and are in the process of drilling out the
16	squeeze and should start cutting a window within the next
17	day or so.
18	Q. So you're just waiting approval from the
19	Commission
20	A. That's correct.
21	Q to go ahead? Okay.
22	And Mr. Hill, has notice of this hearing been
23	provided to the offsetting owners as required by the Oil
24	Conservation Division?
25	A. Yes, they have.

14

1	Q. And I believe Exhibit Number 5 is a copy of all
2	the notice letters that were sent?
3	A. That is correct.
4	Q. Okay. Mr. Hill, in your opinion, will granting
5	this Application be in the best interest of conservation,
6	the prevention of waste and the protection of correlative
7	rights?
8	A. Yes, it will.
9	Q. And were Exhibits 1 through 5 prepared by you or
10	compiled under your direction and supervision?
11	A. Yes, they were.
12	MS. TRUJILLO: Thank you.
13	Mr. Examiner, I move the admission of Kinlaw
14	Exhibits 1 through 5.
15	EXAMINER STOGNER: Exhibits 1 through 5 will be
16	admitted into evidence.
17	MS. TRUJILLO: And that concludes my direct
18	examination of Mr. Hill.
19	EXAMINATION
20	BY EXAMINER STOGNER:
21	Q. Mr. Hill, do you know how successful the other
22	three wells or have you had any successes yet out there?
23	A. We've actually only drilled one of them so far,
24	and the well drilled as planned. We had no problems in
25	actually getting the well drilled. At this point we're

1 testing the well and should know something here within the next week or so. But we lost a little bit more water than 2 what we had initially planned while we were drilling it, 3 and we're at this point -- The engineering department is 4 coming up with a plan of how we want to pump the well. 5 But as for the technical part, it went very well. 6 7 ο. That's good to hear. 8 Does Kinlaw have any other plans on drilling some 9 other horizontals, other than the ones you've had approval for? This is the fifth case on a similar type order --10 11 Α. Right. -- or fourth, I can't remember now. 12 0. Yes, once we finish testing this well that we --13 Α. the only well we have drilled at this point, and see, you 14 know, how it's going to do, we will possibly drill one of 15 the other wells that we have applied for in that field, 16 17 which is the South Denton field. 18 The Denton field, we have already applied for the 19 remaining five wells on our lease in this field, and if it 20 works, we plan on drilling those. Do you have any -- Well, of course, that depends 21 0. 22 on how successful --Right. 23 Α. Just out of suggestion, next time you come in 24 Q. 25 through here for a similar type of an application, you

1	might want to tack on a request to get administrative
2	authorization for the pool or pools
3	A. Okay.
4	Q in this area.
5	You've had enough experience so far out there,
6	and the activity has been going on, I think there's
7	probably enough evidence or information available to
8	include that in your next application
9	A. All right.
10	Q just as a suggestion.
11	A. We would be glad to do that. Thank you.
12	MR. STOVALL: Alternate suggestion would be that
13	your attorney contact Mr. Kellahin and Mr. Bruce and a few
14	of the others, and maybe we can come up with some
15	administrative rules for industry to take the lead on that.
16	THE WITNESS: I think that would be a good idea.
17	I'd be happy to do that.
18	EXAMINER STOGNER: I have no other questions of
19	Mr. Hill at this time.
20	MS. TRUJILLO: Mr. Examiner, I have one other
21	matter for the record concerning Cody Energy.
22	I'd like to state on the record that we have been
23	notified by their attorney, Mr. Kellahin, that they have
24	withdrawn their objection to our Application in this case.
25	MR. STOVALL: What was the nature of their

1	objection? Do you know, Ms. Trujillo?
2	MS. TRUJILLO: It was They were wondering
3	exactly which direction we were going to be drilling in and
4	how close we were going to be to the borders of the
5	acreage. And we advised them that we were going to be
6	drilling in a northwesterly direction, and we were going to
7	stay 330 feet from the boundaries. And they accepted that.
8	EXAMINER STOGNER: The 330 feet is the standard
9	setback for the pool; is that right, Ms. Trujillo?
10	THE WITNESS: That's right.
11	MS. TRUJILLO: That's correct.
12	MR. STOVALL: So I guess direction really isn't a
13	critical thing, as long as you stay the appropriate
14	distance away; is that correct?
15	MS. TRUJILLO: Yes.
16	MR. STOVALL: One question: Why did you ask
17	for originally for an unorthodox location? What was
18	that
19	MS. TRUJILLO: We weren't exactly sure at the
20	time of the Application how far they were going to need to
21	go.
22	THE WITNESS: And we weren't sure at that time
23	also where our gyro would fall as to where the actual
24	bottomhole location was, and fortunately it was still
25	within our 330-foot

1 MR. STOVALL: So we can just dismiss that part of that case at this time? 2 MS. TRUJILLO: Yes. 3 MR. STOVALL: 4 Okay. EXAMINER STOGNER: And, Ms. Trujillo, I'll also 5 take notice of --6 7 MS. TRUJILLO: Okay. I have nothing further. 8 EXAMINER STOGNER: I'm assuming you want this expedited? 9 10 THE WITNESS: Yes. 11 MS. TRUJILLO: Please. 12 EXAMINER STOGNER: Nothing further in Case 13 10,868, I will take this case under advisement. 14 (Thereupon, these proceedings were concluded at 15 10:10 a.m.) 16 17 18 I do hereby certify that the foregoing is 19 a complete record of the proceedings in the Examiner hearing of Case 110. 10686 20 heard by me on 18 Vovember 1993 21 , Examiner Oil Conservation Division 22 23 24 25

20 CERTIFICATE OF REPORTER 1 2 3 STATE OF NEW MEXICO)) ss. 4 COUNTY OF SANTA FE) 5 6 I, Steven T. Brenner, Certified Court Reporter 7 and Notary Public, HEREBY CERTIFY that the foregoing 8 transcript of proceedings before the Oil Conservation 9 Division was reported by me; that I transcribed my notes; 10 and that the foregoing is a true and accurate record of the 11 proceedings. 12 I FURTHER CERTIFY that I am not a relative or 13 employee of any of the parties or attorneys involved in 14 this matter and that I have no personal interest in the 15 final disposition of this matter. 16 WITNESS MY HAND AND SEAL December 5, 1993. 17 SALLA č cui ~ 18 STEVEN T. BRENNER 19 CCR No. 7 20 My commission expires: October 14, 1994 21 22 23 24 25