7136: HANSON OIL CORPORATION FOR DMENT OF R-111-A, EDDY COUNTY, NEW CO

CASE NO.

7/36

APPlication,
Transcripts,
Small Exhibits,

ETC.

CASE 7136

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION STATE LAND OFFICE BLDG. SANTA FE, NEW MEXICO 28 January 1981 EXAMINER HEARING IN THE MATTER OF: Application of Hanson Oil Corporation for amendment of Rellia, Eddy County, New Mexico. BEFORE: Daniel S. Nutter TRANSCRIPT OF HEARING APPEARANCES For the Oil Conservation Ernest L. Padilla, Esq. Division: Legal Counsel to the Division State Land Office Bldg. Santa Fe, New Mexico 87501 W. Thomas Kellahin, Esq. For the Applicant: KELLAHIN & KELLAHIN 500 Don Gaspar Santa Fe, New Mexico 87501

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2 MR. NUTTER: Call next Case Number 7136. 3 MR. PADILLA: Application of Hanson Oil Corporation for amendment of Order R-111-A, Eddy County, New 4 5 Mexico. MR. KELLAHIN: I'm Tom Kellahin of Santa 7 Fe, New Mexico, appearing on behalf of Hanson Oil Corporation 8 and I have one witness to be sworn. 10 (Witness sworn.) 11 12 JAMES A. KNAUF 13 being called as a witness and being duly sworn upon his oath, 14 testified as follows, to-wit: 15 16 DIRECT EXAMINATION 17 BY MR. KELLAHIN: 18 Mr. Knauf, would you please state your 19 name and occupation? 20 My name is James A. Knauf, and I am a A. 21 petroleum engineering consultant from Artesia, New Mexico. 22 Mr. Knauf, have you been employed as a 23 consultant for Hanson Oil Corporation for purposes of this 24 case? Yes, I have.

1	4
2	Q. And you said you're a consulting engineer
3	Λ. Yes, sir.
4	O. Mr. Knauf, have you previously testified
5	before the Oil Conservation Division as a petroleum engineer?
6	A. Yes, sir.
7	Q And have your qualifications as a petro-
8	leum engineer been accepted and made a matter of record?
9	A. Yes, sir.
10	MR. KELLAHIN: We tender Mr. Knauf as
11	an expert witness.
12	MR. NUTTER: Mr. Knauf is qualified.
13	Q. Mr. Knauf, I'd like to direct your
14	attention to what we've marked as Applicant's Exhibit A,
15	and have you identify that exhibit for us.
16	A. Okay. Exhibit A is a portion of the
17	USGS oil/potash map for southeastern New Mexico. This is
18	a north portion, which I have copied to show that the Wills-
19	Weaver is an island separate from the main bcdy of R-111-A.
20	Q. How is the R-lll-A island that is
21	separted from the main body identified on the exhibit, Mr.
22	Knauf?
23	A. It is the north part up in 18 South,
24	30 East.
25	Q. What is represented by the darker lines

1	6	
2	A. Yes, sir, it's in the Shugart Pool.	
3	Q. Are there existing Shugart wells in the	
4	northeast quarter of this section?	
5	A. Yes, sir, Hanson has already drilled	11
6	four wells as shown on Exhibit B.	*
7	Q All right, sir. Let me ask you one more	
8	guestion about Exhibit A. Who is the potash lessee for the	
9	northeast quarter of Section 26?	
10	A. The potash lessee is Duval Corporation.	
11	Q And is the oil and gas Federal, State,	
12	or fee mineral?	
13	A. The oil and gas is Federal.	
14	Q. And what's the source of the potash?	-
15	Is that Federal, State, or fee?	
16	A Just Federal, also.	
17	Q All right, sir. Let's go to Exhibit B	
18	and have you identify that for me.	
19	A. Exhibit B is a portion of the USGS oil	
20	and gas map, and I have prepared this just I have colored	
21	in with an orange line the boundaries of R-111-A island, and	
22	colored in the Hanson's lease, the northeast 26 is colored	
23	in solid yellow, and the other portions the lease does)
24	cover other lands outside, but the only part that's in	
25	question is the northeast of 26 because of R-111-A restrictions	s.

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2	Q.	The wells indicated in the northeast
3	quarter of 26, are t	hose the four Hanson wells that you've
4	already testified to	as being completed in the Shugart pool?
5	A.	Yes, sir. I might say, these wells were
6	drilled in '71 or '7	2 in accordance with R-111-A,
7	Q.	All right, sir, are there any other
8	wells in the immedia	te area which have been drilled as excep-
9	tions to Order Numbe	r R-111-A?
10	A.	Yes. Most of the recent wells, by
11	LaRue and Muncy and	T. B. Knox Estate, I don't know, there
12	might be some wel	1, Arrowhead has approval to drill two,
13	also, all with excep	tions to the casing cementing program.
14	Q	Are those exceptions found within the
15	area defined by the	orange line?
16	A.	No. They're oh, you said orange.
17	Q.	Yes, sir.
18	A.	Maybe I need to qualify. I'm partially
19	colorblind.	
20	Q	I'm sorry, Within the area defined as
21	the R-111-A island?	
22	A.	Yes, sir.
23	Q	All those exceptions apply to that island.
24	a.	Right.
25		All right, sir. Let's go to Exhibit C,

Exhibit C is a portion of a map out of the deGolyer Associates, our consulting firm, mining consulting firm, that were contracted by the Geological Survey to work up abandonment procedures for this Wills-Weaver project, and actually it's -- I do have a copy of deGolyer Associates, and it is just one of the exhibits from there that I -- the reason I used it, it did include Hanson's area in question, and it does show the limits of the mine workings.

Whose mined the area identified on Exhibit Number C?

Oh, this is Duval Corporation's.

Does this show an active potash mine or has it been abandoned?

No, sir, this mining operation ceased in 1971 and they have made application to the Survey to plug the shaft and abandon all this, but it's been held up by -due to numerous reasons.

All right. Do you have an opinion, Mr. Knauf, as to whether there is commercial potash remaining to be mined within the area defined as the R-111-A island, identified on Exhibit A?

According to Duval Corporation there is no more commercial ore up here. It is -- the mineralized

zone for this island up here does go in the north part of Section 26, and for awhile the Survey thought it might be able to be mined by solution mining, but due to the wells in here and there is no way to control solution mining in this open mine, that they have given up with the idea that it is practical to solution mine what might be low grade ore outside of the actual mined area.

Q. Mr. Knauf, are you familiar with the drilling of oil and gas wells in a potash area such as this?

A. Yes, sir.

Would you describe briefly for the Examiner
 the extent of that experience?

Roswell office and back to Artesia. I've been in southeastern

New Mexico for more than thirty years, and most of it -- I

did attend the original hearing for R-111 back in 1950.

Q. Was one of your duties with the USGS the supervision of the drilling of oil and gas wells within the R-111-A area?

A. Yes, sir, on the Federal lands, I did have the responsibility of looking after the drilling and production of these, and also to see that our Federal operators abided by R-111-A regulations.

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So you're familiar with the terms of the 2 R-111-A orders? 3 Yes, sir. Are you also familiar with the mining 5 terms with regard to the leaving of pillars around the mined 6 out areas and in particular regard to the phrase subsidence? 7 Yes, sir. All right, sir, would you define briefly what, if any, impact the further drilling of the northeast 10 quarter of 26 as an exception to the R-111-A area may or may 11 not have with regards to the subsidence of the old mined-out 12 area to the north? 13 There would not be any problems because 14 even if a well was drilled in the northwest corner of this 15 northeast quarter, it would still be out of the angle of 16 subsidence for the Wills-Weaver mine. 17 What angle of subsidence are you referring 18 to, Mr. Knauf? 19 20 A 35 degree angle. Okay, what is the depth of the potash 21 mine here? 22 Well, at the shaft it's right at 1000 23 feet, and coming down -- it does dip to the southeast and 24 25 the ore body down here is approaching 1100 feet.

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Have you discussed with Duval personnel the further drilling in the northeast quarter of 26?

Yes, sir, I have -- in fact I have talked to them on several occasions of some other hearings and they had no objections to removing this whole island from R-111-A.

Would you refer to Exhibit Number D and identify that for us?

Exhibit D is just a diagrammatic well sketch showing the formations and approximate depths and --This would be a diagrammatic sketch of haviyou would propose to complete these wells as exceptions to R-111-A?

Yes, these future wells.

All right, sir, and with specific regards to that order, what portions of the order do you desire to be excepted from?

Well, of course, we would like to have to contract the area to exclude this. It would be a lot more convenient for Duval and Hanson and the Oil Commission and USGS. I might say that Hanson does plan to drill a second well in each one of these 40's and if it turns out, they will core the wells, and if it justifies, they will plan to drill a third and fourth well on each 40.

How many additional wells, then, would

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potentially be drilled in the northeast quarter of Section 26?

A. It would be four to twelve more wells, and they do -- they're drilling this with the idea of having it ready for secondary recovery, and so they would plan to circulate cement in -- they do not know now which wells might be injection wells, so they would plan to circulate the production string whether it's in R-lll-A or outside.

Q. What portions, then, of the R-111-A order would you seek an exception from?

A. Well, actually, outside of the administrative procedures of giving registered notice to the Duval and all, why, the only other exception is running the base of the salt, a string of pipe.

Q. Am I correct in understanding that the provisions of the order with regards to the salt protection string, all those provisions you're seeking to be excluded from compliance with those provisions?

Ments, yes. With the cementing and casing requirements,

Q. All right, sir.

Of course, it would -- of course it's only good engineering practice to drill with brine to total depth while the salt is exposed, and all the other procedures,

MR. NUTTER: Exhibits A through F will be admitted. CROSS EXAMINATION BY MR. NUTTER: Mr. Knauf, aside from the elimination of the area from R-111-A, you would be seeking an exception to the R-111-A casing and cementing specifications, is that correct? Yes. Now, what it actually amounts to as an exception would be that the -- for a shallow zone well under R-111-A it requires either a string of casing cemented to the base of the salt and then drill on through that on down to the production pipe, set the production pipe, or it requires the running of a temporary string that's just packed and protects the salt section during the drilling of the well, and then after you run your production casing the temporary string could be pulled, is that correct? Yes, sir. So what you're seeking here is the elimination of this temporary tacking string. Yes, sir. So drilling a larger hole

you have to start out with a larger hole and larger casing.

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2	5-1/2 at 3545 with cement circulated.
3	A. Yes, sir. And it you might notice
4	on there that 8-5/8ths was set at 1748 and tacked with 50
5	sacks, and then they cut and pulled
6	O. And then it was pulled then.
7.	A. Yes, sir.
8	And the second well, the casing was
9	pulled and the long string is circulated.
10	A. Yes, sir.
11	Q. Now on this third string, or the third
12	well, looks like the same happened, they pulled the temporary
13	string
14	A. Yes, sir.
15	Q and circulated on the long string
16	and on the fourth well you have penned in here that the short
17	that the intermediate string was pulled.
18	A. Yes, sir. I didn't notice that until
19	I was up here and I checked the office there and they just
20	when they filed this report with the USGS and Oil Commission,
21	they just failed to put this base of salt string on there.
22	Q. But it did have it and it was pulled.
23	A. And they did pull 1530 foot of it.
24	Q. Okay.
25	MR. NUTTER: Are there any further

questions of Mr. Knauf? MR. KELLAHIN: No, sir. MR. NUTTER: He may be excused. Do you have anything further, Mr. Kellahin? MR. KELLAHIN: No, sir. MR. NUTTER: Does anyone have anything they wish to offer in Case Number 7136? We'll take the case under advisement. (Hearing concluded.)

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CERTIFICATE

I, SALLY W. BOYD, C.S.R., DO HEREPY CERTIFY that the foregoing Transcript of Hearing before the Oil Conservation Division 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 C.S.R.

I do hereby certify that the foregoing is a complete react of the proceedings in the Examiner hearing of Case to. 7/36, heard by me on 1/28 1981.

Oil Conservation Division

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LARRY KEHOE SECRETARY

Other

STATE OF NEW MEXICO **ENERGY AND MINERALS DEPARTMENT**

OIL CONSERVATION DIVISION

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 (505) 827-2434

February 13, 1981

CASE NO.

Mr. Inomas Kellahin	URDER NO. R-6387
Kellahin & Kellahin	· · · · · · · · · · · · · · · · · · ·
Attorneys at Law	
Post Office Box 1769	Applicant:
and the second s	Appricanc.
Santa Fe, New Mexico	
	Hanson Oil Corporation
Dear Sir:	
Dear Sir:	
Enclosed herewith are two cop	oies of the above-referenced
Division order recently enter	
Yours very truly,	
1 m day	· · · · · · · · · · · · · · · · · · ·
the Scorner	
JOE D. RAMEY	
Director	
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JDR/fd	
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2 IN THE MATTER OF: 10 11 12 13 14 Division: For the Applicant:

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION STATE LAND OFFICE BLDG. SANTA FE, NEW MEXICO 28 January 1981

EXAMINER HEARING

Application of Hanson Oil Corporation for amendment of R-111-A, Eddy County, New Mexico.

CASE 7136

BEFORE: Daniel S. Nutter

TRANSCRIPT OF HEARING

APPEARANCES

For the Oil Conservation

Ernest L. Padilla, Esq. Legal Counsel to the Division State Land Office Bldg. Santa Fe, New Mexico 87501

W. Thomas Kellahin, Esq. KELLAHIN & KELLAHIN 500 Don Gaspar Santa Fe, New Mexico 87501

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2 MR. NUTTER: Call next Case Number 7136. 3 MR. PADILLA: Application of Hanson Oil Corporation for amendment of Order R-111-A, Eddy County, New Mexico. MR. KELLAHIN: I'm Tom Kellahin of Santa 7 Fe, New Mexico, appearing on behalf of Hanson Oil Corporation 8 and I have one witness to be sworn. 10 (Witness sworn.) 11 12 JAMES A. KNAUF 13 being called as a witness and being duly sworn upon his oath, 14 testified as follows, to-wit: 15 16 DIRECT EXAMINATION 17 BY MR. KELLAHIN: 18 Mr. Knauf, would you please state your 19 name and occupation? 20 My name is James A. Knauf, and I am a 21 petroleum engineering consultant from Artesia, New Mexico. 22 Mr. Knauf, have you been employed as a 23 consultant for Hanson Oil Corporation for purposes of this 24 case? 25 Yes, I have.

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30 East.

What is represented by the darker lines

It is the north part up in 18 South,

1	5
2	to the north of the island?
3	A. The north lines to the darker line are
4	the Secretary of Interior's oil/potash area.
5	Q All right. What's identified by the
6	orange square?
7	A. The orange square is this northeast
8	quarter of Section 26 of 18, 30, which is the basis for this
9	case.
10	O Describe for me briefly, Mr. Knauf,
11	what the applicant is seeking here today.
12	A. Hanson Oil Corporation is actually
13	seeking to get this 160 acres eliminated from R-111-A and
14	as an alternative, an exception to the casing cementing
15	program.
16	o. This would be for the dirlling f what
17	type of well, Mr. Hanson I mean Mr. Knauf?
18	A. Hanson Oil Corporation plans to drill
19	at least four wells in the northeast quarter and possibly
20	eight additional besides those four.
21	Q. To what formation would these wells be
22	drilled?
23	A To the Queen Grayburg formation.
24	Ω Is that designated as a pool by the Oil
25	Commission?

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	7
The wells indicated in the n	ortheast
guarter of 26, are those the four Hanson wells th	at you've
4 already testified to as being completed in the Sh	ugart pool?
Yes, sir. I might say, thes	e wells were
6 drilled in '71 or '72 in accordance with R 111 A.	
7 All right, sir, are there an	y other
8 wells in the immediate area which have been drill	ed as excep-
tions to Order Number R-111-A?	· ·
10 Yes. Most of the recent wel	ls by
11 LaRue and Muncy and T. B. Knox Estate, I don't kn	ow, there
might be some well, Arrowhead has approval to	drill two,
also, all with exceptions to the casing cementing	program.
0 Are those exceptions found w	ithin the
area defined by the orange line?	
No. They're oh, you said	orange.
Q Yes, sir.	
Maybe I need to qualify. I'm	n partially
19 colorblind.	13 (14) (14) (14) (14) (14) (14) (14) (14) (14) (14) (14) (14) (14) (14) (14) (14) (14) (14)
20 I'm sorry. Within the area	lefined as
the R-111-A island?	
A. Yes, sir.	
Q All those exceptions apply to	that island.
A. Right.	
Q. All right, sir. Let's go to	

if you please, Mr. Knauf, and have you identify that for me. 2 3 Exhibit C is a portion of a map out of the deGolyer Associates, our consulting firm, mining consulting 4 5 firm, that were contracted by the Geological Survey to work up abandonment procedures for this Wills-Weaver project, and 7 actually it's -- I do have a copy of deGolyer Associates, and it is just one of the exhibits from there that I -- the reason I used it, it did include Hanson's area in question, and it 10 does show the limits of the mine workings. Whose mined the area identified on Ex-11 hibit Number C? 12 Oh, this is Duval Corporation's. 13 14 Does this show an active potash mine or has it been abandoned? 15 No, sir, this mining operation ceased 16 17 in 1971 and they have made application to the Survey to plug 18 the shaft and abandon all this, but it's been held up by ---19 due to numerous reasons. 20 All right. Do you have an opinion, Mr. 21 Knauf, as to whether there is commercial potash remaining to 22 be mined within the area defined as the R-111-A island, 23 identified on Exhibit A? 24 According to Duval Corporation there is 25 no more commercial ore up here. It is -- the mineralized

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zone for this island up here does go in the north part of Section 26, and for awhile the Survey thought it might be able to be mined by solution mining, but due to the wells in here and there is no way to control solution mining in this open mine, that they have given up with the idea that it is practical to solution mine what might be low grade ore outside of the actual mined area.

0. Mr. Knauf, are you familiar with the drilling of oil and gas wells in a potash area such as this?

Yes, sir.

Would you describe briefly for the Examiner the extent of that experience?

Well, actually I went to work for the Geological Survey in 1950 in Artesia, and then I was in the Roswell office and back to Artesia. I've been in southeastern New Mexico for more than thirty years, and most of it -- I did attend the original hearing for R-111 back in 1950.

Was one of your duties with the USGS the supervision of the drilling of oil and gas wells within the R-111-A area?

A. Yes, sir, on the Federal lands, I did have the responsibility of looking after the drilling and production of these, and also to see that our Federal operators abided by R-111-A regulations.

1	10
2	9 So you're familiar with the terms of the
3	R-111-A orders?
4	A. Yes, sir.
5 ,	O Are you also familiar with the mining
6	terms with regard to the leaving of pillars around the mined
7	out areas and in particular regard to the phrase subsidence?
8	A. Yes, sir.
9	0 All right, sir, would you define briefly
10	what, if any, impact the further drilling of the northeast
11	quarter of 26 as an exception to the R-111-A area may or may
12	not have with regards to the subsidence of the old mined-out
13	area to the north?
14	A. There would not be any problems because
15	even if a well was drilled in the northwest corner of this
16	northeast quarter, it would still be out of the angle of
17	subsidence for the Wills-Weaver mine.
18	Q. What angle of subsidence are you referring
19	to, Mr. Knauf?
20	A. A 35 degree angle.
21	Okay, what is the depth of the potash
22	mine here?
23	A. Well, at the shaft it's right at 1000
24	feet, and coming down it does dip to the southeast and
25	the ore body down here is approaching 1100 feet.

How many additional wells, then, would

MR. NUTTER Exhibits A through F will

be admitted.

CROSS EXAMINATION

BY MR. NUTTER:

O. Mr. Knauf, aside from the elimination of the area from R-111-A, you would be seeking an exception to the R-111-A casing and cementing specifications, is that correct?

A. Yes.

Now, what it actually amounts to as an exception would be that the — for a shallow zone well under R-111-A it requires either a string of casing cemented to the base of the salt and then drill on through that on down to the production pipe, set the production pipe, or it requires the running of a temporary string that's just packed and protects the salt section during the drilling of the well, and then after you run your production casing the temporary string could be pulled, is that correct?

A. Yes, sir.

Q. So what you're seeking'here is the elimination of this temporary backing string.

A. Yes, sir. So drilling a larger hole you have to start out with a larger hole and larger casing.

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2	5-1/2 at 3545 with cement circulated.
3	A. Yes, sir. And it you might notice
4	on there that 8-5/8ths was set at 1748 and tacked with 50
5	sacks, and then they cut and pulled
6	0 And then it was pulled then.
7	λ. Yes, sir.
8	O And the second well, the casing was
9	pulled and the long string is circulated.
10	Λ. Yes, sir.
11	Q Now on this third string, or the third
12	well, looks like the same happened, they pulled the temporary
13	string
14	λ. Yes, sir.
15	Q and circulated on the long string
16	and on the fourth well you have penned in here that the short
17	that the intermediate string was pulled.
18	A. Yes, sir. I didn't notice that until
19	I was up here and I checked the office there and they just
20	when they filed this report with the USGS and Oil Commission,
21	they just failed to put this base of salt string on there.
22	Q But it did have it and it was pulled?
23	A. And they did pull 1530 foot of it.
24	Q Okay.
25	MR. NUTTER: Are there any further

questions of Mr. Knauf? MR. KELLAHIN: No, sir. MR. NUTTER: He may be excused. Do you have anything further, Mr. Kellahin? MR. KELLAHIN: No, sir. MR. NUTTER: Does anyone have anything they wish to offer in Case Number 7136? We'll take the case under advisement. (Hearing concluded.)

CERTIFICATE

I, SALLY W. BOYD, C.S.R., DO HEREPY CERTIFY that the foregoing Transcript of Hearing before the Oil Conservation Division 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, C.S.R.
Rt. 1 Box 193-B
Sunta Fe, New Mexico 87501
Phone (505) 455-7499

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case heard by me on

Conservation Division Examiner

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

CASE NO. 7136 Order No. R-6587

APPLICATION OF HANSON OIL CORPORATION FOR THE CONTRACTION OF THE POTASH-OIL AREA, OR IN THE ALTERNATIVE, AN EXCEPTION TO THE CASING-CEMENTING RULES OF R-111-A, EDDY COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on January 28, 1981, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 12th day of February, 1981, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Hanson Oil Corporation, seeks the contraction of the Potash-Oil Area as defined by Order No. R-111-A, as amended, by the deletion of the NE/4 of Section 26, Township 18 South, Range 30 East, NMPM, Eddy County, New Mexico, or, in the alternative, applicant seeks an exception to the casing-cementing rules prescribed by Order No. R-111-A for wells it proposes to drill in the NE/4 of said Section 26 to permit it to set surface casing at at least 600 feet and production casing at total depth in the Grayburg formation, circulating cement to the surface on both strings.

-2-Case No. 7136 Order No. R-6587

- (3) That while the evidence presented indicates that there are no present potash mining operations nor probable remaining deposits of commercial potash are in the subject area, there is insufficient geological and engineering data available in the record of this case to justify deletion of the subject lands from the Potash-Oil Area, and the application for such deletion should be denied.
- (4) That the proposed method of completion for shallow-zone wells in the subject area should be safe and should not result in endangerment of potash resources or operations, provided however,
- (5) That the production casing should be cemented with a volume of cement sufficient to circulate back to the surface.
- (6) That the applicant should report the following both to the district office of the Division and the U.S.G.S. and may be required to circulate coment to the surface around the production casing:
 - (a) Any water flows encountered:
 - (b) The top of the cement around the production casing as determined by temperature survey if such cement does not circulate.
- (7) That approval of the subject application will protect correlative rights, will prevent waste and will not cause the waste of potash.
 - (8) The application should be approved.

IT IS THEREFORE ORDERED:

(1) That the applicant, Hanson Oil Corporation, is hereby authorized an exception to the casing-cementing rules for the Oil-Potash Area as promulgated by Order No. R-111-A to permit the completion of several wells in the NE/4 of Section 26, Township 18 South, Range 30 East, NMPM, Eddy County, New Mexico, by setting surface casing at a depth of at least 600 feet and production casing at total depth with a volume of cement calculated to be sufficient to circulate back to the surface.

PROVIDED HOWEVER, that the applicant shall report the following, both to the district office of the Division and the U.S.G.S.:

Case No. 7136 Order No. N-6587

- (a) Any water flows encountered; and
- (b) The top of the cement around the production casing as determined by temperature survey if such cement does not circulate.

PROVIDED FURTHER, that the applicant may be required to re-cement the production casing to the surface if cement on said casing did not circulate to the surface.

- (2) That the application to delete certain lands from the Potash-Oil Area is hereby denied.
- (3) That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

JOE D. RAMEY.

/ Director

SEAL

dr/

Dockets Nos. 5-81 and 6-81 are tentatively set for February 11 and 25, 1981. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - WEDNESDAY - JANUARY 28, 1981

9 A.M. - OIL CONSERVATION DIVISION CONFERENCE ROOM, STATE LAND OFFICE BUILDING, SANTA FE, NEW MEXICO

The following cases will be heard before Daniel S. Nutter, Examiner, or Richard L. Stamets, Alternate Examiner:

- CASE 7135: Application of Celeste C. Gryenberg for a unit agreement, Eddy County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for the Cottonwood Draw Unit Area, comprising 2555 acres, more or less, of State lands in Township 16 South, Range 24 East.
- CASE 7119: (Continued from January 14, 1981, Examiner Hearing)

Application of Shell Oil Company for a unit agreement, Bernalillo and Sandoval Counties, New Mexico. Applicant, in the above-styled cause, seeks approval for the West Mesa Unit Area, comprising 26,722 acres, more or less, of State, Federal, and fee lands in Townships 10, 11, and 12 North, Ranges 1 and 2 Fast.

- CASE 7136: Application of Hanson Oil Corporation for amendment of R-111-A, Eddy County, New Mexico.

 Applicant, in the above-styled cause, seeks the elimination of the NE/4 of Section 26, Township 18

 South, Range 30 East, from the Potash-Oil Area as defined by Order No. R-111-A as amended. In the alternative, applicant seeks an exception to the casing and cementing rules of R-111-A for its wells to be drilled within the NE/4 of said Section 26.
- Application of Caulkins Oil Company for downhole commingling, Rio Arriba County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for the downhole commingling of Chacra and Blanco Mesaverde production in the wellbores of its wells located in: Sections 1 thru 5, and 7, 8, 21, 22, 24, and 25 in Township 26 North, Range 6 West; Sections 13, 14, 23, 24, and 26 in Township 26 North, Range 7 West; and Sections 33 thru 35 in Township 27 North, Range 6 West.
- CASE 7138: Application of Wiser Oil Company for a special gas-oil ratio limitation, Lea County, New Mexico.

 Applicant, in the above-styled cause, seeks a special gas-oil ratio limitation of 6000 to one, retroactive to May 1, 1980, for the Hardy-Drinkard Pool.
- CASE 7051: (Continued from December 30, 1980, Examiner Hearing)

Application of Petro Lewis Corporation for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Blinebry and Drinkard production in the wellbore of its L. G. Warlick "B" Well No. 2 located in Unit G of Section 19, Township 21 South, Range 37 East.

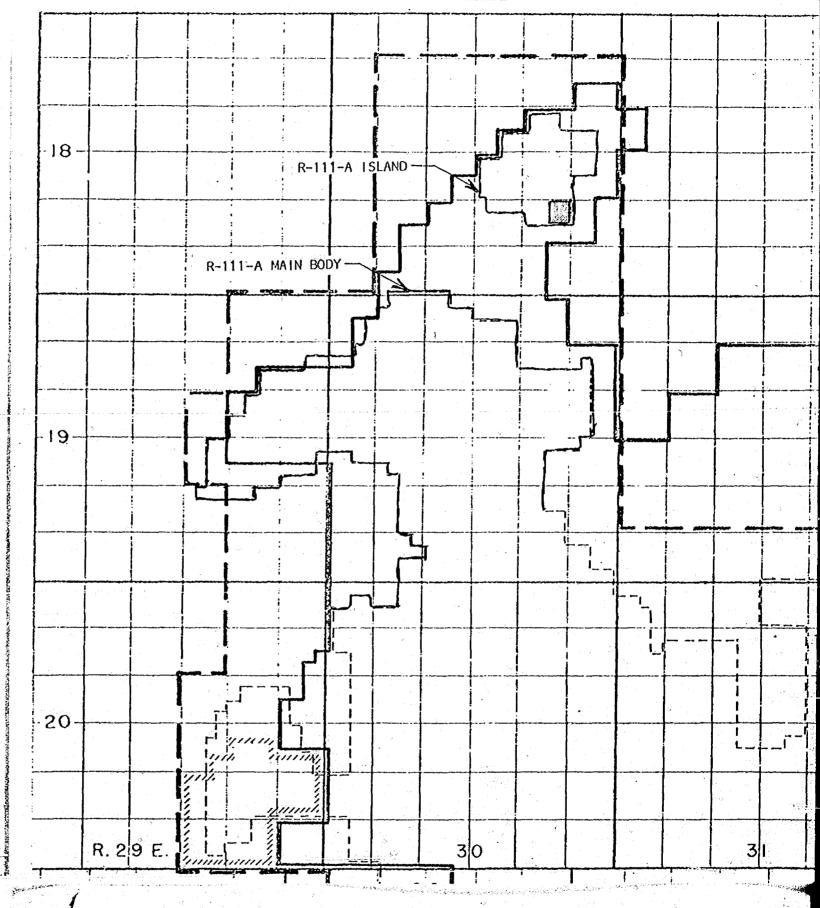
- CASE 7139: Application of Yates Petroleum Corporation for amendment of Division Order No. R-6367, Chaves
 County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of Order No. R-6367
 to designate Yates Petroleum Corporation as the operator of the two proration units pooled by said
 order, replacing McClellan Oil Corporation as operator.
- CASE 7140: Application of Yates Petroleum Corporation for compulsory pooling and an unorthodox location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Morrow formation underlying the N/2 of Section 26, Township 21 South, Range 26 East, to be dedicated to a well to be drilled at an unorthodox location 660 feet from the North line and 1650 feet from the East line of said Section 26. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.
- CASE 7100: (Continued from January 14, 1981, Examiner Hearing)

Application of Harvey E. Yates Company for downhole commingling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Atoka and Morrow production in the wellbore of its Travis 24 State Com Well No. 1 in Unit H of Section 24, Township 18 Scuth, Range 28 East.

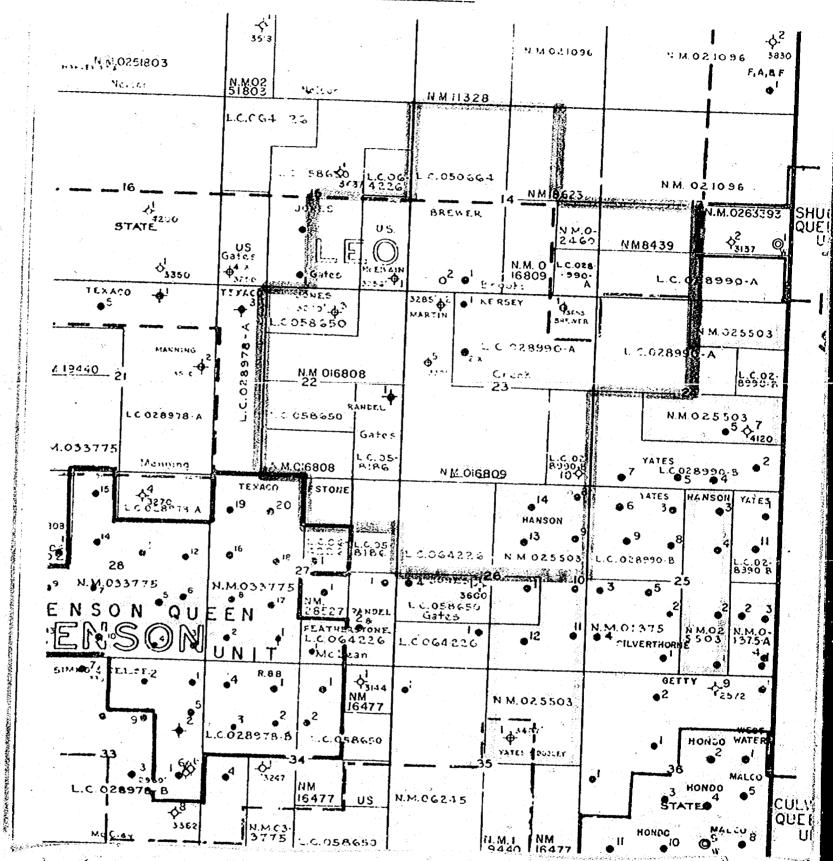
CASE 7141: Application of P & O Oil Field Service for an oil treating plant permit, Lea County, New Mexico.

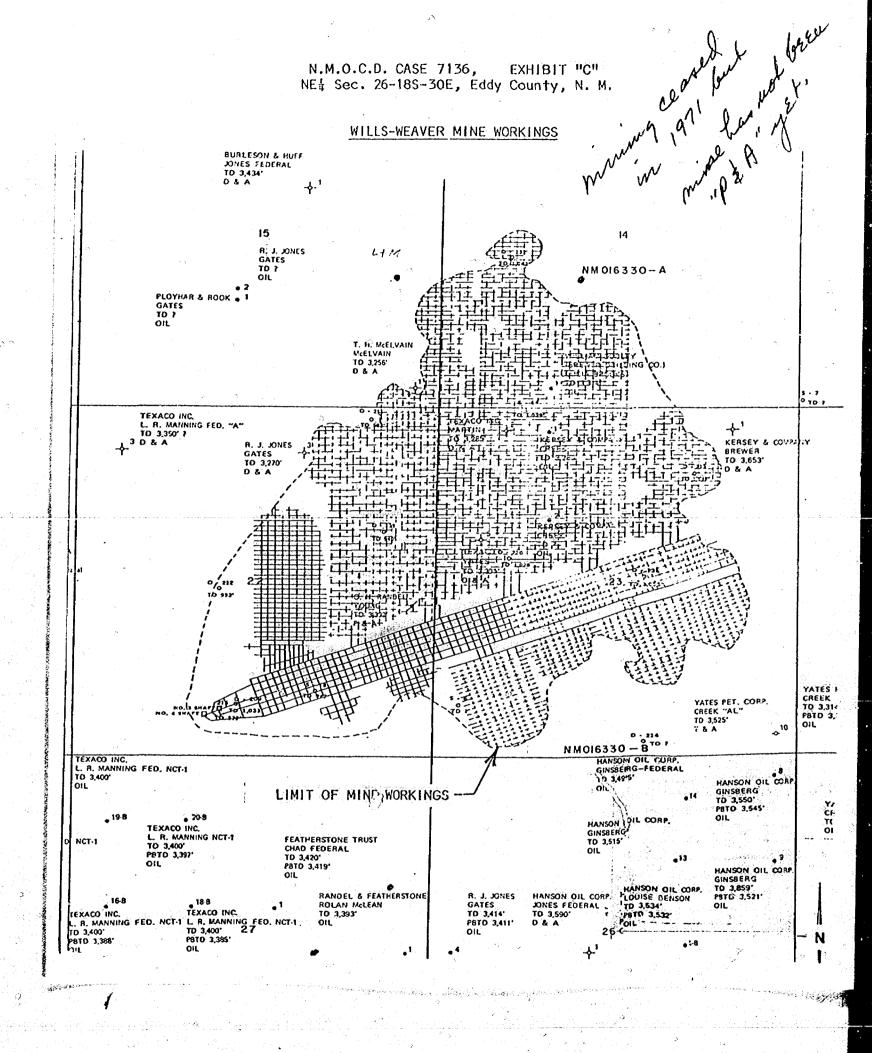
Applicant, in the above-styled cause, seeks authority for the construction and operation of an oil treating plant for the purpose of treating and reclaiming sediment oil at a site in the SW/4 NW/4 of Section 25, Township 25 South, Range 36 East.

PORTION OF R-111-A AREA

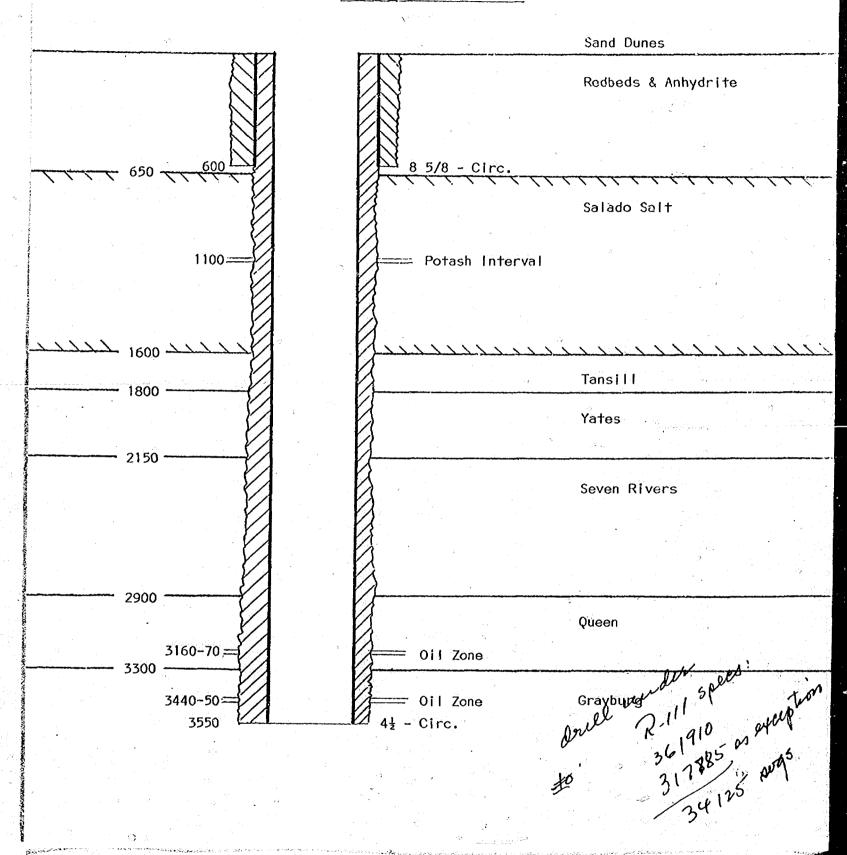


OIL & GAS MAP





DIAGRAMATIC WELL SKETCH



N.M.O.C.D. CASE 7136, EXHIBIT "E" NE4 Sec. 26-18S-30E, Eddy County, N. M.

INDIVIDUAL WELL RECORDS

BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
HANSON EXHIBIT NO. E
CASE NO. 7/7/

WELL STATUS (Producing or shut-in) PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump) Producing 11-18-71 $1\frac{1}{2}$ " x 12' Insert Pumping GAS-MICE. 2" 19 BLW 11-19-71 24 CALCULATED 24-HOUR RATE CASINO PRESSURE GAS-MCT WATER-BEL DIL GRAVITT-API (CORE.) 38° 19 BLW 34. DISPOSITION OF OAS (Rold, used for fuel, vented, etc.) Harry Murdock Negotiating Contract 2 copies of logs
36. I hereby certify that the foresging and attached information is complete and correct as determined from all available records

BIGNED Serald E. Harring Ton TITLE Geologist DATE 12-8-71

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Hanson Oi		ation	<u> </u>		<del></del>		<del></del>	. N.C		SE 35.4		-	X
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5-1/2"			356			7/8"				culated		None_	2
3 1/2				-			<u>. 700</u>	-20-	- Calab	LUZUEU	- -		
29.		LINER RI	CORD				30	û.	T	UBING RECOR	D		
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							2-	-3/8	<u>3"   3</u>	162' GL	_		<u>.</u>
1. PEBYORATION REC	) Dag (Interval, siz	e and num	nber)		!	1 32.	ACID	SHOT	PP CT	URE, CEMENT	OUEE	E PTC	
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3440-3444	', 0.45",	, 12 1	hole	3		,				treated			
						3440-	3444	4 )		gals 15%			
			<del></del>			<u> </u>	<del></del>		gals	<u>treated</u>	wtr	20,00	<u>00</u> =20-
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10-30-71			17 N. J.		x 12	•		•	77 - A	ehut-i	n)		į
ATE OF TEST	HOURS TESTED	ping	3518	PROD'N.	FOR	inser		NG-R		WATER-BBL	OGUC	OIL SATIO	
11-01-71	24	2"		TEST P	>	138	-   .	•		22 BLW			
LOW. TUBING PRESS.	CASING PRESSURE		LATED UR RATE	OIL-BB	L.	C18X	CF.	•	WATER-		L GRAV	TY-API (COA	12.)

*(See Instructions and Spaces for Additional Data on Reverse Side)

Harry Murcoc

Negotiating Contract

31. PERFORATION RECORD (Interval, size and number) 3107-3111', 0.41", 12 holes 3387-3393', 0.41", 18 holes delled wtr +20,000# 20-40 sand delled wtr +15,000# 20-40sand PRODUCTION WELL STATUS (Producing or shut-in) PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) DATE FIRST PRODUCTION

Pumping 2" x 1½" x 10' insert Producing PROD'N. FOR TEST PERIOD DATE OF TEST HOURS TESTED 40 BLW 2-23-72 GAS--SICE. CALCULATED 24-HOUR RATE 40 BLW 34. DISPOSITION OF OAS (Sold, used for fuel, vented, elc.) Vented - pending test and connection by Phillips Petr. Bill Morgan 2 copies - logs
I bereby certify that the for foregoing and attached information is complete and correct as determined from all available records C 2. TITLE Geologist DATE SIGNED

TUBING RECORD 30. BIZE TOP (MD) BOTTOM (MD) SACKS CEMENTS SCREEN (MD) SIZE DEPTH SET (MD) PACKER SET (MD) 2-3/8" 3405' 3182 31. PERFORATION RECORD (Interval, size and number

3109 - 3113', 0.41", 12 holes 3314 - 3318', 0.41", 12 holes

ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED 20,000 gal.gelled wtr. + 20,000# 20-40 sand + 500ga] 3314 - 3318 20,000 gal.gelled wtr 20,000# 20-40 sand + 500gal

33.* PRODUCTION WELL STATUS (Producing or shut-in) DATE FIRST PRODUCTION PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump) 4-5-72 Flowing Producing DATE OF TEST HOURS TESTED CHOKE SIZE OAS-HCF. PROD'N. FOR TEST PERIOD GAS-OIL RATIO 4-5-72 24 18/64" 25 FLOW, TUBINO PRESS. CASING PRESSURE CALCULATED 24-HOUR RATE OIL GRAVITY-API (CORR.) 38⁰ ... 200# 900# 25 34. DISPOSITION OF OAS (Sold, used for fuel, vented, etc.) TEST WILLIAM TEST

Vented-pending connection by Phillips Petroleum

Bill Morgan Deviation Survey, 2 copies-logs

36. I hereby certify that the and attached information is complete and correct as determined from all available records SIGNED MINIA

Geologist TITLE

May 15, 1972

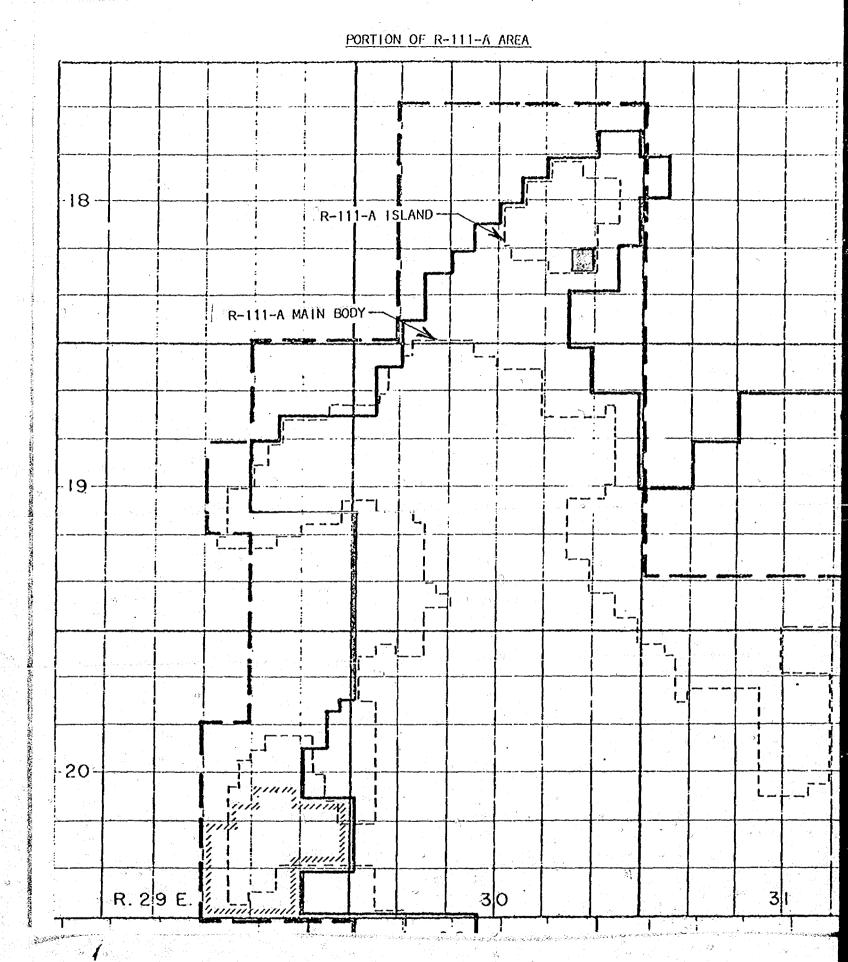
NMOCD CASE 7136, EXHIBIT "F" Sec. 26-18S-30E, Eddy Co., N. M.

# ACCUMULATIVE OIL PRODUCTION

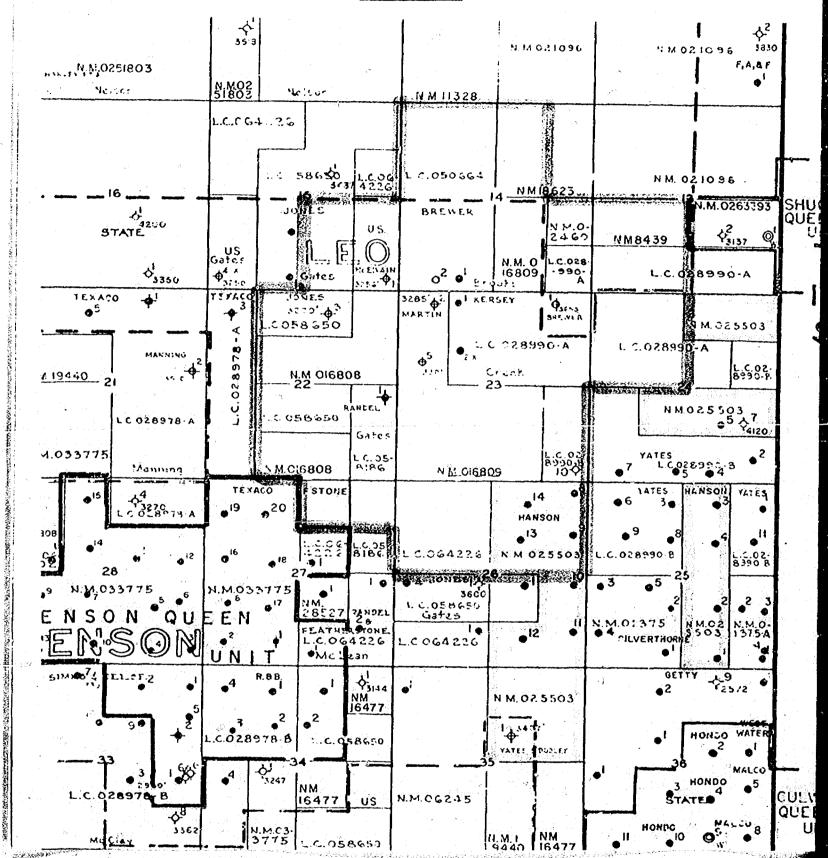
	#8 Ginsberg A-26-18-30 Comp 11-15-71	#9 Ginsberg H-25-18-30 Comp 10-30-71	#13 Ginsberg G-26-18-30 Comp 2-21-72	#14 Ginsberg B-26-18-30 Comp 4-5-72
Thru 12-31-79	21,142	89,850	59,590	7,973
Jan. 80	29	367	380	105
Feb. 80	24	299	355	97
Mar. 80	26	319	339	92
Apr. 80	26	322	333	91
May 80	29	369	321	88
June 80	33	410	156	43
July 80	28	355	178	49
Aug. 80	28	346	273	74
Sep. 80	29	369	232	63
Oct. 80	20	249	40	11
Nov. 80	37	462	507	138
Dec. 80	31	388	272	74
TOTAL 1980	340	4355	3386	925
Thru 12-31-80	21,482	94,205	62,976	8,898

BEFORE EXAMINER NUTTER OIL CONSERVATION DIVISION

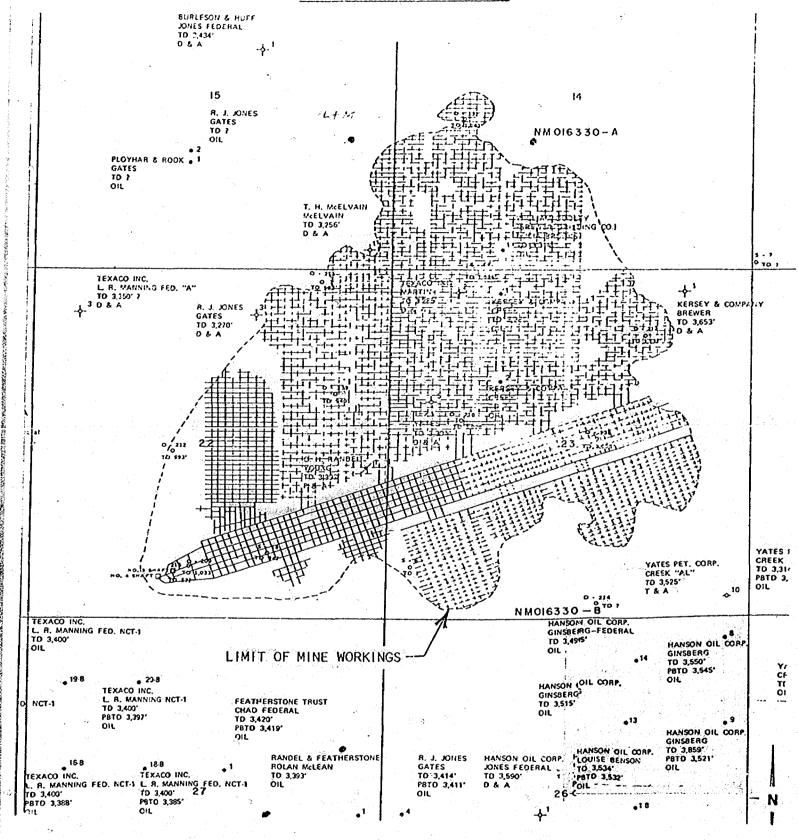
HANSON EXHIBIT NO. F CASE NO. 7/36



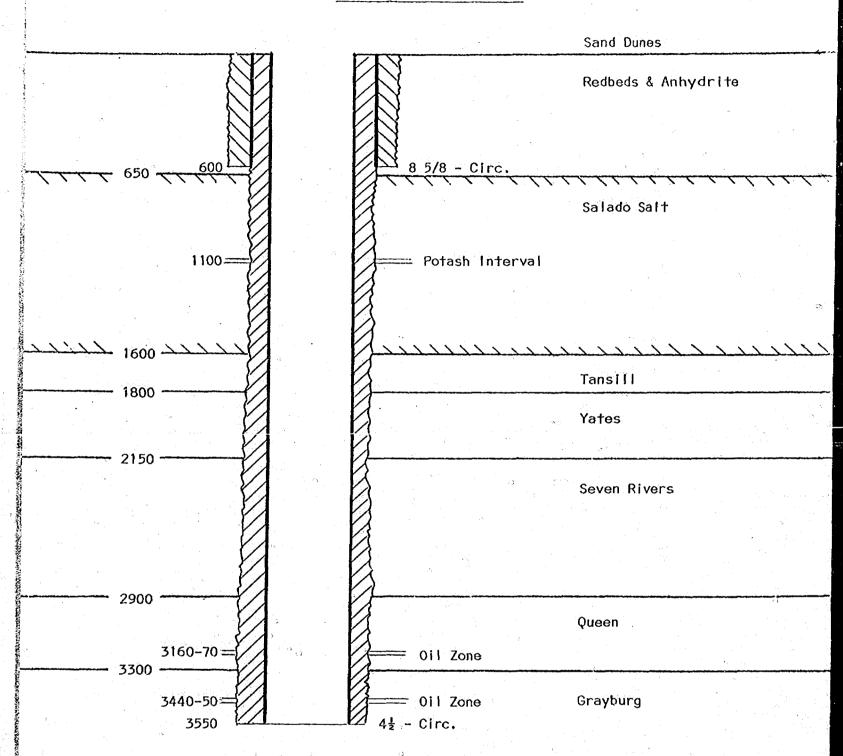
### OIL & GAS MAP



### WILLS-WEAVER MINE WORKINGS



# DIAGRAMATIC WELL SKETCH



N.M.O.C.D. CASE 7136, EXHIBIT "E" NE¹/₄ Sec. 26-18S-30E, Eddy County, N. M.

INDIVIDUAL WELL RECORDS

		*	STATES		וטס אז דווּ	(See J. or In	Budg	n approved. of Burray No. 42-R355.6.
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NEW X	WORK DEEP.	BYCK C	DIFF.	Other			S. FARM OR LEAS	SE NAME
2. NAME OF OPERA	TOR						Ginsber	g Federal
Hanson O	il Corporat	ion					9. WELL NO.	
3. AIDRESS OF OPE			***	202			#8	OR WHEEL
P. O. BOX	x 1515 - Ro	swell,	New Mexic	CO 8841	01		_ <b>[</b>	
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to ton mend the	The manufact halow		FNL & 330				OR AREA	
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At total depth	•	Eddy	County, 1					T-18S, R-30E
*			14. PERMIT NO	5.	DATE ISSUE	D	12, COUNTY OR PARISH	New Meyico
15. DATE SPUDDED	16. DATE T.D. REACE	HED   17. DATI	court. (Ready	to prod.)   15	ELEVATIO:	e foy RKB,	Eddy RT, GB, ETC.)*   19.	New Mexico
10-29-71	1		-15-71	1 1 20	100000000000000000000000000000000000000		, 02, 2,	3508.9
20. TOTAL DEPTH, MD		ACK T.D., MD & 1	TVD   22, 1F 311	"LTIPLE COMPL., MANY"		INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
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24. PRODUCING INTER	RVAL(S), OF THIS COM	PLETION-TOP,	, BOTTOM, NAME (	(MD AND TYD)*	<del>,</del> -		11.	25. WAS DIRECTIONAL SURVEY MADE
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OR TUPE ELECTRIC /	AND OTHER LOCK RUN	<u> </u>			<u></u>		A 3127.	WAS WELL CORED
Gamma Ray				<b>\</b>		San Ó	1,00, 0,00	No
28.	/-Neucron	CASI	NG RECORD (Re	enort all string	set in well	<del>ĹĸĸŶ</del>		ANO
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29.		ER RECORD	APURNYO		30.	·	TUBING RECORD	The IND
29. 812E			BACKS CEMENTS	SCREEN (MI	30. D) s	IIZE	DEPTH SET (MD)	PACKER SET (MD)
			SACKS CEMENTS	SCREEN (M)	30. D) s	·	<del></del>	PACKER SET (MD)
812.5		(GK) KOTT	SACRS CEMENTS	SCREEN (MC	30. s	3/8"	DEPTH SET (MD)	
BIZE  31. PERFORATION REC	TOP (MD) BOT	гтом (мр) nd number)		B2. DEPTH INT	acid, specific and the specific specifi	3/8" HOT, FRACT	3160' URE, CEMENT SQI	UEEZE, ETC.
31. PERFORATION REC	TOP (MD) BOT	nd number)	s	82.	acid, specific and the specific specifi	3/8" HOT, FRACT AM 500	3160' URE, CEMENT SQUENT AND KIND OF Gals 15% 1	DEEZE, ETC.  MATERIAL USED  NE acid, 20,000
31. PERFORATION REC	TOP (MD) BOT	nd number)	s	32. DEPTH INT 3187-3	30. s 2- ACID. SI TERVAL (MD) 3191	3/8" HOT. FRACT  500  gals	JAGO ' TURE, CEMENT SQUENT AND KIND OF GALS 15% A trtd wtr	UEEZE ETC.  MATERIAL USER  NE acid, 20,000 , 20,000=20-40sd.
31. PERFORATION REC	TOP (MD) BOT	nd number)	s	B2. DEPTH INT	30. s 2- ACID. SI TERVAL (MD) 3191	3/8" HOT. FRACT 500 gals 500	DEPTH SET (MD)  3160'  TURE, CEMENT SQI  OUNT AND KIND OF  Gals 15% M  trtd wtr.  gals 15% M	UEEZE ETC.  MATERIAL USER  NE acid, 20,000 , 20,000=20-40sd.  NE acid, 20,000
31. PERFORATION REC	TOP (MD) BOT	nd number)	s s	32. DEPTH INT 3187-3 3461-3	30. s 2- ACID. SI TERVAL (MD) 3191	3/8" HOT. FRACT 500 gals 500	DEPTH SET (MD)  3160'  TURE, CEMENT SQI  OUNT AND KIND OF  Gals 15% M  trtd wtr.  gals 15% M	UEEZE ETC.  MATERIAL USER  NE acid, 20,000 , 20,000=20-40sd.
31. PERFORATION REC 3187-3191 3461-3465	TOP (MD) BOT COSD (Interval, size and L', 0.45", ]	nd number) 12 hole:	s s	32.   DEPTH INT   3187-3   3461-3	30. 5 2- ACID. SP (ERVAL (MD) 3191	3/8" HOT. FRACT 500 gals 500 gals	DEPTH SET (MD)  3160'  TURE, CEMENT SQI  OUNT AND KIND OF  Gals 15% M  trtd wtr,  gals 15% M  trtd wtr,	UEEZE ETC.  MATERIAL USED  NE acid, 20,000 , 20,000=20-40sd.  NE acid, 20,000
31. PERFORATION REC 3187-3191 3461-3465	TOP (MD) BOT COSD (Interval, size and L', 0.45", ]	nd number)  12 hole: 12 hole:	PRO loving, gas ilfi, p	32.   DEPTH INT   3187-3   3461-3	30. 5 2- ACID. SP (ERVAL (MD) 3191	3/8" HOT. FRACT 500 gals 500 gals	JEPTH SET (MD)  3160'  URE, CEMENT SQUENT AND KIND OF Gals 15% Marting with the control of the c	UEEZE ETC.  MATERIAL USED  NE acid, 20,000 , 20,000 # 20 - 40 sd.  NE acid, 20,000 , 20,000 # 20 - 40 sd.
31. PERFORATION REC 3187-3191 3461-3465	TOP (MD) BOT CORD (Interval, size and L', 0.45", ]	nd number)  12 hole: 12 hole:	PROJ FROM I S S S S S S S S S S S S S S S S S S	32. DEPTH INT 3187-3 3461-3 DUCTION DUMPING—size of	30. 5 2- ACID, SECENAL (MD) 3191' 3465'	3/8" HOT. FRACT 500 gals 500 gals	URE CEMENT SQUE COUNT AND KIND OF Gals 15% I trtd wtr, Gals 15% I trtd wtr,	UEEZE, ETC.  MATERIAL USED  NE acid, 20,000 , 20,000 # 20 - 40 sd.  NE acid, 20,000 , 20,000 # 20 - 40 sd.
31. PERFORATION REC 3187-3191 3461-3465 33.*  DATE FIRST PRODUCTION  11-18-71  DATE OF TEST  11-19-71	TOP (MD) BOT CORD (Interval, size and L', 0.45", ]  ON PRODUCTION Pump in HOURS TESTES 124	nd number)  12 hole: 12 hole: 112 hole: 12 hole: 12 hole: 12 hole: 2"	PROI lowing, gas lift, p	32. DEPTH INT 3187-3 3461-3 DUCTION pumping—size of	30. 5 2- ACID, SECENAL (MD) 3191' 3465'	3/8"  HOT. FRACT  500  gals  500  gals	DEPTH SET (MD)  3160'  TURE, CEMENT SQI  OUNT AND KIND OF  GALS 15% M  trtd wtr,  WELL STATE  #MATER—BBL.  19 BLW	DEEZE, ETC.  MATERIAL USED  NE acid, 20,000 , 20,000 \$\div 20 - 40\sd.  NE acid, 20,000 , 20,000 \$\div 20 - 40\sd.  UB (Producing or ducing GASOIL RATIO
31. PERFORATION REC 3187-3191 3461-3465 33.*  DATE FIRST PRODUCTION  11-18-71  DATE OF TEST	TOP (MD) BOT  CORD (Interval, size and  L', 0.45", ]  S', 0.45", ]  HOURS TESTED  AND PRESSURE	nd number)  12 hole: 12 hole: 13 hole: 14 hole: 15 hole:	PRODING FOR TEST PERIOD OIL—BBL.	32.  DEPTH INT  3187-3  3461-3  DUCTION  DUMPING—size of  Insert  OIL—BBL.	30. 5 2- ACID. SP SERVAL (MD) 3191' 3465'	3/8"  HOT. FRACT  500  gals  500  gals	DEPTH SET (MD)  3160'  FURE, CEMENT SQU OUNT AND KIND OF  Gals 15% M trtd wtr,  Gals 15% M trtd wtr,  WELL STATE «NUI-in) Proc  WATER—BBL.  19 BLW  -RBL.  OIL O	UEEZE ETC.  MATERIAL USED  NE acid, 20,000 , 20,000 # 20 - 40 sd.  NE acid, 20,000 , 20,000 # 20 - 40 sd.  UB (Producing or ducing GAS-OIL RATIO GRAVITT-API (CORR.)
31. PERFORATION REC 3187-3191 3461-3465  33.* DATE FIRST PRODUCTS  11-18-71 DATE OF TEST 11-19-71 FLOW. TUBING PRESS.	TOP (MD) BOT  CORD (Interval, size and  L', 0.45", ]  S', 0.45", ]  HOURS TESTED  AND PRESSURE	nd number)  12 hole: 12 hole: 12 hole: 12 hole: 21 hole: 21 hole: 21 hole: 22 hole: 24 hole RATE	PRODING FOR TEST PERIOD OIL—BBL.	32.  DEPTH INT  3187-3  3461-3  DUCTION  Pumping—size of  Insert  OIL—BBL.  81	30. 5 2- ACID. SP SERVAL (MD) 3191' 3465'	3/8" HOT. FRACT  500  gals  500  gals  pump)	DEPTH SET (MD)  3160'  TURE, CEMENT SQI OUNT AND KIND OF  Gals 15% P  trtd wtr,  Gals 15% P  trtd wtr,  WELL STATI  PHOO WATER—BBL.  19 BLW  -RSL. OIL O	UEEZE ETC.  MATERIAL USED  NE acid, 20,000 , 20,000 # 20 - 40 sd.  NE acid, 20,000 , 20,000 # 20 - 40 sd.  UB (Producing or ducing  GRAVIET-API (CORR.)  380

*(See Instructions and Spaces for Additional Data on Reverse Side)

TITLE Geologist

DATE 12-8-71

500 gals 15% NE acid. 20,000 gals treated wtr, 20,000#20 PRODUCTION PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) DATE PIRST PRODUCTION Producing insert metal-metal 22 BLW OIL-BBL. CALCULATED 24-HOUR RATE -XCT. OIL GRAVITY-API (CORE.) 22 BLW 34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TEST WITNESSED BY Negotiating Contract
35. LIST OF ATTACHMENTS Harry Murdock nd attached information is complete and correct as determined from all available records **高州**中国2016 TITLE Geologist .: : DATE _ 11-1-71

'm 0 550		100			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		15	
Form 9-330 (Rev. 8-63)	11	NILED STA	TES SU	I NI TIKRI	nuplica. 🔸		orm approved.	49 11955 5
5.4	T.	ENT OF TH	- No. 1	Ó.D.	(Secother in- structions on	В	udget Bureau No.	, 48-11355.5.
		• • • • • • • • • • • • • • • • • • • •		J _I T	reverse side)		BUNATION AND I	BEBIAL NO.
	GEC	LOGICAL SU	RVEY			NM-02		
WELL COI	MPLETION OF	RECOMPLET	ION REPOR	TAND	LOG*	6. IF INDIAN,	ALLOTTER OR T	BIBN NAME
18. TYPE OF WELL	L: OIL XX	GAS WELL (	RY Other			7. UNIT AGRE	EVENT NAME	111
L TYPE OF COME								• •
WELL X	MORK DEEL	PERG DES	va. Other			S. PARM ON L	EASE NAME	to the second
2. NAME OF OPERATO	on	.4				Ginsbe	rg Feder	<u>al</u>
Hanson Oi	.1 Corporati	on			!	D. WELL NO.		
3. ADDRESS OF UPER	ATOR			1.84	5	1		
	: 1515 - Ros		.,0,	8201		10. FIELD AND	POOL, OR WILD	CAT
	L (Report location cied				•	Shug	art	
At surface		1650' FNL					, M., OR HILOCK A	NOBUNYET
At top prod. Inte	rval reported below	Sec. 26,	T-18-S, R	-30-E,	NMPM		_	- A - 1
	•	Eddy Coun	ty, New M	exico	; s	•	•	
At total depth		<u>-</u>					<u>6, T-18s</u>	
•	•	14. PE	AMIT NO.	DATE IS:	SUED	12. COUNTY O	13. st.	ATE .
			•	<u> </u>		Eddy		Mexico
15. DATE SPUDDED	16. DATE T.D. REACHE	D   17. PATE COMPL.	(Ready to prod.)	19. ELEVAT	CIONS (DP, RKB, R	T, OR, ETC.}*	19. ELEV. CASI:	DASHON
2-7-72	2-13-72	2-21-72		3460.	7' KB		3450.7	
20. TOTAL DEPTH, MD A	TVD 21. PLUO, BAC	( T.D., MO & TVD   22	. IF MULTIPLE CON	PL.	23. INTERVALS . DRILLED BY	ROTARY TOOL	S CABLE	T001.8
3515'		<u>;</u>				0.,35,15'		
	AL(S), OF THIS COMP	ETION TOP, BOTTOM,	NAME (MD AND TO	p)	TO IV	1477	25. WAS DIR	
Penrose	3107-3111'			2 773	pas (S)	<b>30</b>		
Grayburg	3387-3393'				FEB 2519	12	No	, , , , , , , , , , , , , , , , , , ,
26, TIPE ELECTRIC AN	O OTHER LOGS RUN		'i		were out of	SUNY CEL	27, WAS WELL C	ORED
Densilog,	Induction F	lectrolog	i	y, Ş.	GEOFORION EEBSO IA	MEXICO	No	
28.			RD (Report all str	ings set frig	bler (T)			·
CASINO SIZE	WEIGHT, LB./FT.	(dk) tas htgad	HOLE SIZE		CEMENTING P	ECOAD	AMOUNT	PULLED
12-3/4"	34#	720'	17½"	600	sx - cir	culated	Non	<u>e</u>
8-5/8"	24#	1740'	11"	50	sx.		1.40	0' 3

29. LINER RECORD 30. TUBING RECORD

SIZE TOP (MD) BOTTOM (MD) SACKS CEMENT* SCREEN (MD) SIZE DEFTH SET (MD) PACKER SET (MD)

2-3/8" 3143"

31. PERFORATION RECORD (Interval, size and number)
3107-3111', 0.41", 12 holes
3387-3393', 0.41", 18 holes
3107-

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED

3107-3111' 500qals acid,18,800 gals

qelled wtr +20,000# 20-40sand

3387-3393' 500gals acid,18350 gals

qelled wtr +15,000# 20-40sand

DATE

PRODUCTION

DATE PIRST PRODUCTION | PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) | Well states (Producing or abc)-in)

2-22-72 | Pumping 2" x 1½" x 10' insert | Producing

DATE OF TEST | HOURS TESTED | CHOKE SIZE | PROD'N, FOR TEST PERIOD | PROD'N, FOR TEST PERIOD | PROD'N FOR TEST PERIOD | PROD'

I bereby certify that the foregoing and attached information is complete and correct SIGNED SURVEY TITLE GEOLOGIST

33,14 - 33	18., 0.41.	, IZ noi	es	3314	- 3318		000 ga 000# 20				- 1 F
				3109	- 3113	1 20,0	000 ga 1 000 ga 1	,ge	led v	atr.	∓ă
3.•			PRO	DUCTION		120,0	100# ZC	<u> </u>	Sanu	<u> </u>	<u>v</u> g a
4-5-72	ON PRODUCT	ION METHOD (Flo		umping—size Hing	and type of	pump)	WEL		s (Produc	7	-
4-5-72	HOURS TESTED	18/64"	PROD'N. FOR	оть—вы. 25	GAS-	-мст.	WATER-B		GAS-OIL R		<b>-</b> .
200#	CASING PRESSURE 900#	CALCULATED 24-HOUR RATE	оп.—ввг. 25	GAS-	xcr.	WATER-	-B8L.	OIL G	380	(CORF.)	_
4. DISPOSITION OF G	is (Sold, used for fu	el, vented, etc.)	·		<del></del>		TEST WITN	ESSED B	Y		- 1, .

DEPTH INTERVAL (MD)

Deviation Survey, 2 copies-logs

Vented-pending connection by Phillips Petroleum

3113', 0.41", 12 holes

ached information is complete and correct as determined from all available records

SIGNED/ WHOLA

Geologist TITLE

May 15, 1972 GTAG '

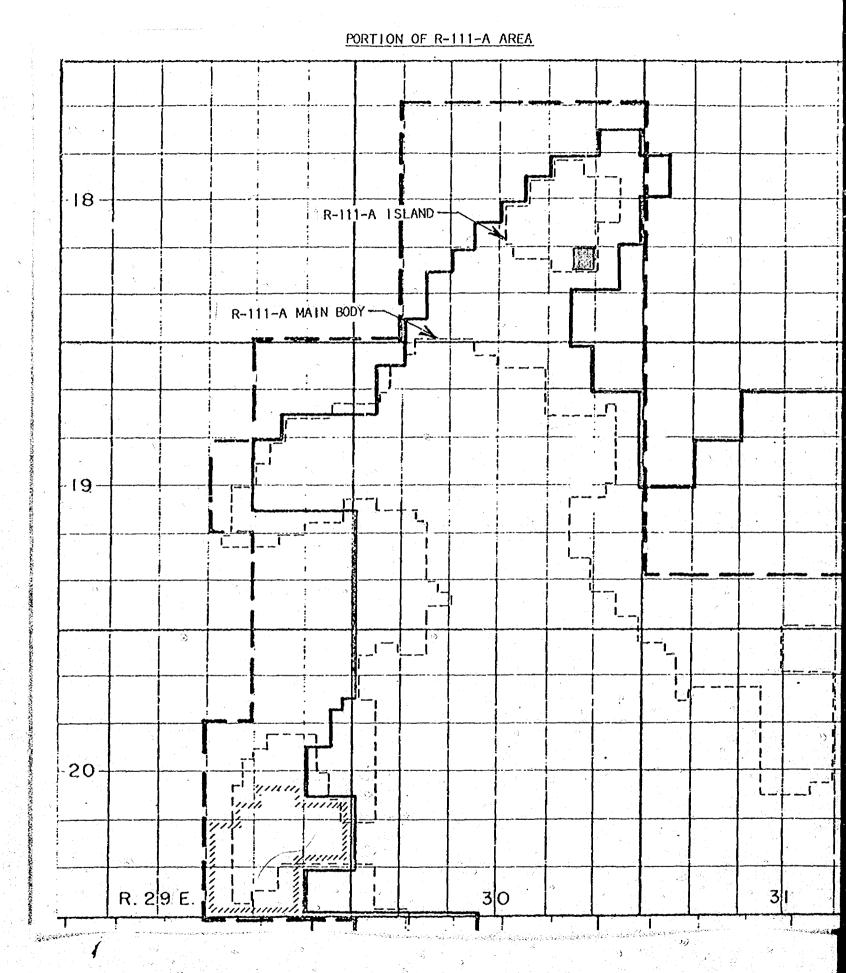
AMOUNT AND KIND OF MATERIAL ESED

Bill Morgan

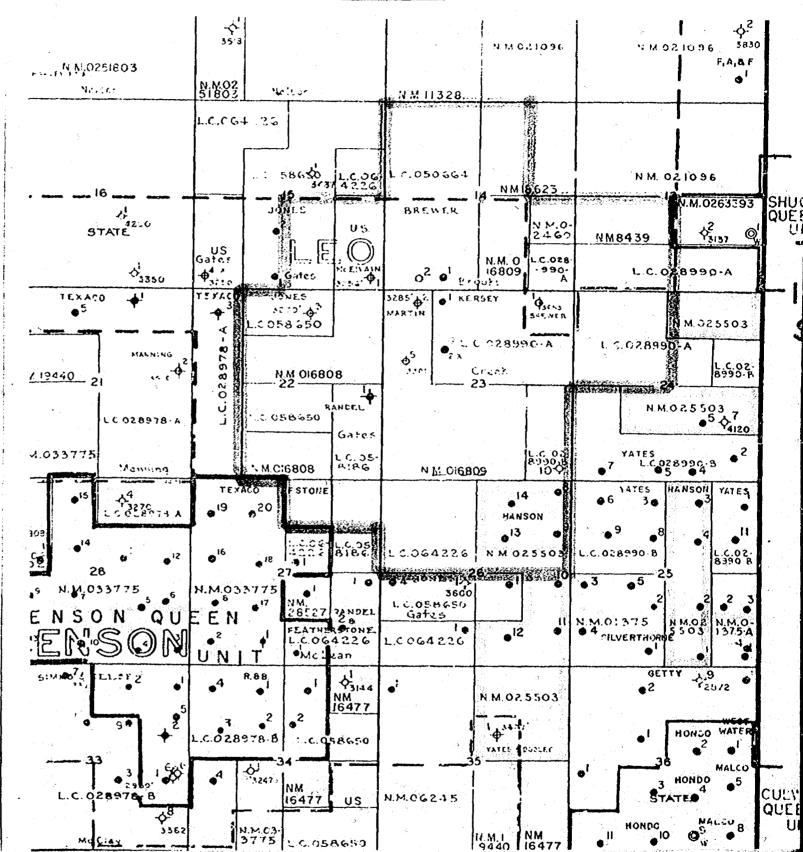
NMOCD CASE 7136, EXHIBIT "F" Sec. 26-18S-30E, Eddy Co., N. M.

# ACCUMULATIVE OIL PRODUCTION

	#8 Ginsberg A-26-18-30 Comp 11-15-71	#9 Ginsberg H-25-18-30 Comp 10-30-71	. •	#13 Ginsberg G-26-18-30 Comp 2-21-72	#14 Ginsberg B-26-18-30 Comp 4-5-72
Thru 12-31-79	21,142	89,850	<b>Y</b>	59,590	7,973
Jan. 80	29	367		380	105
Feb. 80	24	299		355	97
Mar. 80	26	319		339	92
Apr. 80	26	322		333	91
May 80	29	369		321	88
June 80	33	410		156	43
July 80	28	355		178	49
Aug. 80	28	346		273	74
Sep. 80	29	369		232	63
Oct. 80	20	249		40	11
Nov. 80	37	462		507	138
Dec. 80	31	388		272	74
TOTAL 1980	340	4355	÷	3386	925
Thru 12-31-80	21,482	94,205		62,976	8,898

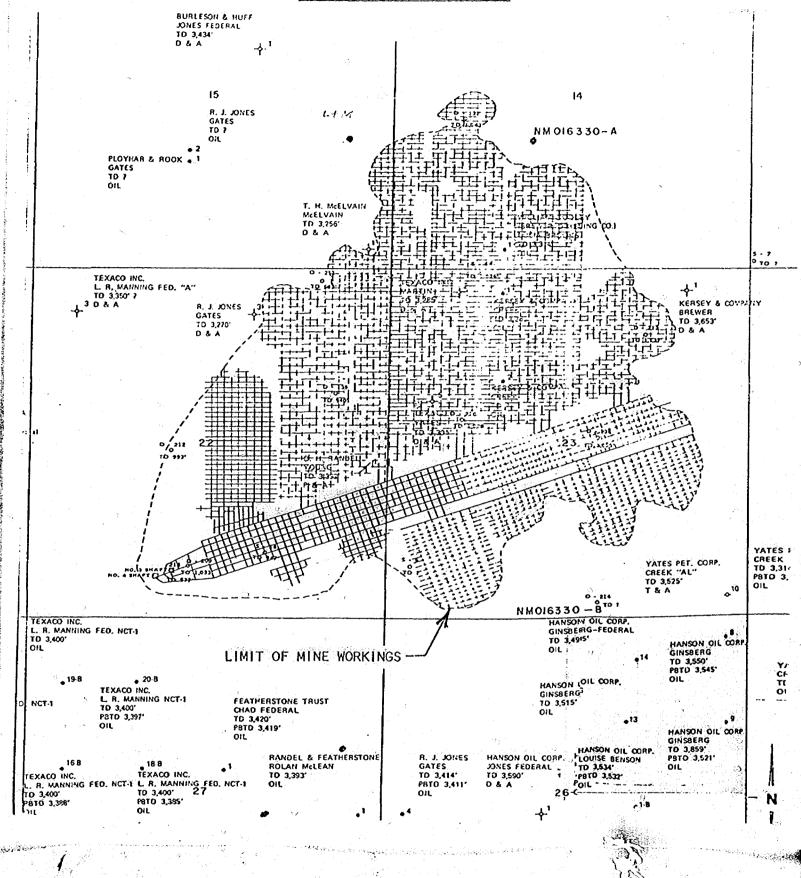


OIL & GAS MAP

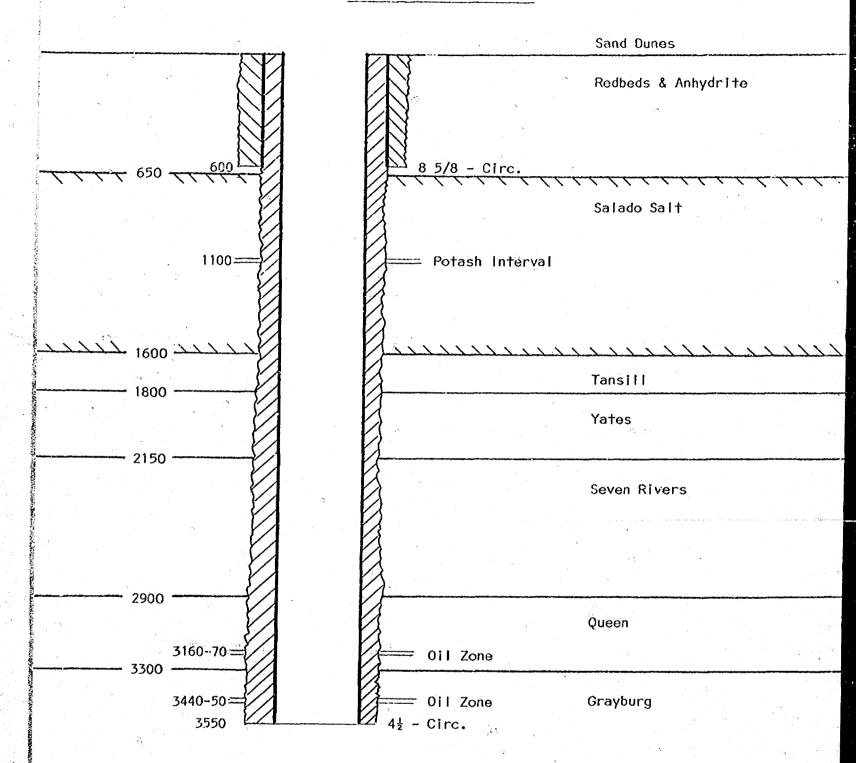


.;;

#### WILLS-WEAVER MINE WORKINGS



# DIAGRAMATIC WELL SKETCH



N.M.O.C.D. CASE 7136, EXHIBIT "E" NE¹/₄ Sec. 26-18S-30E, Eddy County, N. M.

INDIVIDUAL WELL RECORDS

			2		,				<i>p</i>		* * *	
Yourn 9-330 (Kev. 5-63)		i ji	NIC .E	STA"	TFS	sub	літ і	pilana n	L	1	Form	approved. t Bureau No. 42-R155.5.
	ПЕРДЕ	этміг				ITERIO	R		urtions on		• • • • • • • • • • • • • • • • • • • •	t Bureau No. 42-R355.6,
	DLIAL		DLOGIC				<i>/</i> \		rise side)			
						·				G. IN INDIA		OTTER OR TAIRS NAME
	OMPLETION					REPORT	<u>A</u> N	1D FO	/G *	-		
18. TYPE OF WE	W	VELL X	WELL E		DRY 🗌	Other		·		7. UNIT AG	afenen	T NAME
b. TYPE OF CO	work [ ] Di	DEEL-	r Pregir	— DIE	٠. ا					S. PARY OR	- m 107	e <del>nergy file engagement e</del>
NEW X			DACE [	EFS	Y.	Other				-		
2. NAME OF OFER			-	٠,					,	Ginsh 9. WELL NO		<u>Federal</u>
3. ADDRESS OF OP						-00			1	-   #	#8	
P. O. Bo	x 1515 -	Rosy	well,	New M	<u>iexic</u>	co 882			'			OL, OR WILDCAT
4. LOCATION OF W.	ELL (Report local	ilon elear					remen	ile}*	,		gart	OR BLOCK AND BURYEY
			330'	FNL &	з 330	O' FEL			,	11. SEC., T., OR AREA	, R., M., A	OR BLOCK AND BURYS
- At top prod. Ir	nterval reported b	below	Sec.	26, 7	r-18-	-s, R-3	0-F	s, nmr	PM '	1		Ž.
At total depth	•					New Mex				sec.	26.	T-18S, R-30E
At wine			20 mg		RHIT NO.			ISSUED		12. COUNTY	6 08	1-105, R-30E
				1 .	, ,	1	i	•••	and the second	PARISH Eddy		New Mexico
15. PATE SPUDDED	16. DATE T.D.	REACHES	0   17. DAT	1 28 соягь. /	(Ready t	to prod.)   1/	Q ELF	TATIONS (	Int. RKB. I	** GB. ETC.)*	1 19.	I NEW MEXICO
10-29-71	11-5-7	71	11	1-15-7	71		350	08.9 G	GL 35	18.9 KE	в з	3508.9
20. TOTAL PEPTH, MD	A TVD ZI. FL		A E	TVD	HOW M.	LTIPLE COMPL. MANT [®]	••		TERVALS ILLED BY		)L9	CABLE TOULS
3550 24. PRODUCING INTE	  /0\ OF TH/	354		POTTON	THE (	··· AND TYD)			<del>-&gt;</del> 1	0-3550	12	25, WAS DIRECTIONAL
•			_		Addin .	לייד ממע D	,		١,	A STATE OF THE STA	1	SURVEY MADE
3181	'-3191' &	3461	1-3465	, *								No .
26. TYPE ELECTRIC	AND OTHER LOGS	RUN						<del></del>	****	70.	1°21. v	WAS WELL CORED
	y-Neutror		* .		a .	<b>1</b>	,	1975	· 9	P. Car	, 12°C	No
28.	y-1100	<u></u>	CASI	NG RECO	RD (Rep	port all strings	is set?	in well)	<del>20</del>			Alor
CASING SIZE	WEIGHT, LB.	./FT.	PEPTH SET			OLE BIZE	1		NENTING P	RECORD		AMOUNT PULLED
12-3/4"	49#		704			-1/2"				rculate	ed_	None
8-5/8"	33#		1748		11"	t .	5	0. sx.				1508'
5-1/2"	15.5#&1	17#	3545	,1	7-	-7/8"	115			0 sx th	<u>iru</u>	None
							1	" to	surfa	ace	•	<u></u>
29.	<del></del> -		RECORD					30.		TUBING RECORD		<del></del>
812 €	TOP (MD)	BOTTO?	(dis) ko	SACES CE	MENT*	SCREEN (MI	D)	3318	[	DEPTH BET (N		PACKER BET (MD)
	/			( <del></del>	]	l	!	2-3/	<u>/8"</u>	3160'		1
31. PERYORATION RE	-com (Interval, )	·ise and	number)	<del></del>	<del></del>	•	AC	TONS	- I	URE. CEMEN	soi/	
31. FARFURNICES	СОНР (зиги	126	Aumorry		,	DEPTH INT						JEEZE, ETC.
3187-319	1', 0.45"	1, 12	2 hole	28		3187-3			-]			E acid, 20,000
	5', 0.45"					3101	<u>310.</u>		-,			20,000#20-40
		•	•	-	. "	3461-3	216					20,000#20-409 ME acid, 20,000
						7404	<u>340</u>	<u> </u>	gals	trtd v	vtr,	20,000#20-40:
33.•					PROD	DUCTION		.*	19-		And the	20,00
DATE FIRST PRODUCT	FION PROD	SUCTION !	METHOD (F	lowing, ga		umping—size d	and to	ype of pun	np)	WELL	STATUS ul-in)	8 (Producing or
11-18-71		umpin		s" x 1		nsert		1 <u>184,1</u>		P	Produ	lucing
DATE OF TEST	HOURS TESTED	Сно	HOXD SIZE	PROD'N. TEST PI	. FOR	Oli,—BBL.		GAS-NC	CF.	WATER-BBL	L. (	GAS-OIL RATIO
11-19-71			2"		<del>-&gt;</del>	81	′	1		19 BLW		
PLOW, TUBING PRESS.	CASING PRESSUI		LCULATED HOUR RATE	I		GAS—)	я́ст.		WATER	State St		BAVITY-API (CORE.)
	<u> </u>	.   -		81					19 F			80
34. DISPOSITION OF O			nted, etc. j		-		_		1	TEST WITHE		
	ing Contr	act	· · · · · · · · · · · · · · · · · · ·	<u> </u>		<del></del>	<del></del>		<u> </u>	Harry	Mul	dock
35. LIST OF ATTACH		,				* •						
2 copies	of logs			elab	E),	-1 -4-				458161		
40	. that the coremon	ng sha e	attached in-	(ormation	is compr	ete and corre	ect as	determine	ed from a	ell available'r	ecords.	

*(See Instructions and Spaces for Additional Data on Reverse Side)

TITLE Geologist

SIGNED Z

DATE 12-8-71

Form approved. Budget Bureau No. 42-R355.5.

structions on reverse side)	5, LEASE DESIGNATION AND SERIAL NO.
	NM-025503
LOG*	6. IV INDIAN, ALLOTTEE OR TAILS NAME
	<u> </u>

		GEOLOGI	CAL SC	)KAE'I				0-ми	25503	
WELL CO	MPLETION	OR REC	OMPLE"	TION I	REPORT	AND LO	)G*	6. IV INDIAN, A	LLOTTE OR TAIND NAME	Ē
1a. TYPE OF WEI	L: OF	GAS WEL		PRY [	Other			7. UNIT ACREES	IENT HAND	-
b. TYPE OF COM	PLETION:	er- [=] etro		Fr.	Other	mm"	-	1. Par Sunda LE	GRAN BEN	-
WELL, LES 2. NAME OF OPERAT	OVER L. EN	, (		8111.1	Uther	1 7150	V. St. La. St. St.	Ginshe	ra Federal	
Hanson Of		ration			• • • • • • • • • • • • • • • • • • • •	. N	0730	9.7 HELL NO.	rg Federal	-
3, ADDRESS OF OPE		CACLOIL	• •					SEASS		
D A Bos		Poctuol 1	Nou	Maria	0 8821	$n^{(6,\ 3,\ 12)}$		10' Lixta YND	POOL, OR WILDCAT	-
P. O. BOX	i.t. (Report local	ion clearly and	accordance	e with an	y State requir	ementa)		Shug		
At surface					O' FEL			11. SEC., T., R.,	M., OR BLOCK AND BURYEY	i
At top prod. int	erval renorted h				S, R-30	)_E		OR AREA		
it top products	cival reported b					•				
At total depth		Eaa			ew Mex	LCO :			T-18S, R-3	10E
			14. P	ERMIT NO		DATE ISSUED		12. COUNTY OR PARISH	13. STATE	
								Eddy	New Mexi	co
5. DATE SPUDDED	16. DATE T.D.	PEACHED 17. I	ATE COMPL.	(Ready to	1 20.	ELEVATIONS (		T, GR, ETC.)* 1	9. ELEV. CASINGHEAD	
10-14-71	10-23-					3485.1			3485.1	
O. TOTAL DEPTH, MD		DO, BACK Y.D., MD	A 7YD 2	2. IF MULT HOW M.	TIPLE COMPL.,	23. 1N	TERVALS ILLED BY	DOTABY TOOLS	CABLE TOOLS	
3859'		3521'					ا حـــ	0-3859		
4. PRODUCING INTER	WAL(S), OF THIS	COMPLETION—	OP, BOTTOM	, HAME (M	O AND TVD).				25. WAS DIRECTIONAL SURVEY MADE	
2166-3	3171' & 3	2440344	A 1						NA.	130
		· · · · · · · · · · · · · · · · · · ·	† 		<del></del>			1 67	NO	
6. TYPE ELECTRIC A	*		ا شد					21		10
Compensa	ited Dens	<del></del>					a		NO :	
CASINO SIZE	WEIGHT, LB.		SING RECO		ort all strings		MENTING F	ECORD	AMOUNT PULLED	ŅĴ.
	110111, 10.			15	[					.;C:
12-3/4"			723'				•	<u>culated</u>	None	्र कर्जन १ कर्ज
8-5/8"	-		755			50 sx			_ 1486'	ုံလ
5-1/2"	-		562'	-	<u>-7/8"</u>	.46U SX	-Clr	culated_	None	
9.	<u> </u>	LINER RECOI	RD.	1		30.	T	UBING RECORD		
SIZE	10P (ND)	воттом (ир)		EMENT.	SCREEN (MD	—		EPTH SET (MD)	PACKER SET (MD)	
			_			2-3/8	<u> </u>	162' GL		,
		· · · · · · · · · · · · · · · · · · ·	_					<u></u>		ı
1. PERFORATION REC	osp (Interval, e	ize and number			32.	ACID, SHOT	r. Practi	IRE, CEMENT S	QUEEZE, ETC.	
2166 2121		10 22			DEPTH INT	RVAL (MD)	ANO	UNT AND KIND C	F MATERIAL L'SED	Series
3166-3171	- 1 - T				3166-	3171'	1000	gals, l'	% NE acid, 20	ი . ი
3440-3444	1, 0.45	, 12 ho	.es						wtr, 20,000#	
er er f	· <del>5</del>			3	3440-	3444'	500 c	gals 15%	NE acid.20.	000
									wtr, 20,000#	
3.•			1 6.4		UCTION			<u> </u>	<u> </u>	S
ATE FIRST PRODUCTI	ON PROD	UCTION METHOD						shut-in	TUS (Producing or)	
10-30-71		mping	15"	<u>x 12</u>		t meta]	<u>l-meta</u>		ducing	
ATE OF TEST	HOURS TESTED	CHOKE BIZ	TEST	N. FOR	OIL-BBL.	CA831	icr.	WATER-BBL.	CAS-OIL BATIO	
11-01-71	24	1 2"	<u> </u>	<del></del>	198	11.1		22 BLW	1	
OW. TUBING PRESS.	CASING PRESSUI	CALCULATE 24-HOUR R	TE		GA8—14		WATER-		GRAVITY API (CORR.)	
. Disposition of GA	s (Sold used for	fuel nented et		98			22 BI	TEST WITNESSED	380	
			··•				. 4			
Negotiat	ing Cont	ract		<u> </u>				_Harry_M	urdock	
	2.72		\$	*						
2 CODIES 5. I hereby certify	OI LOGS	g and attached	infermation	is comple	ete and correc	t as determin	ed from a	li available zecoz	da	
٤,٠	1	00/	-/				, <b> u</b>			
SIGNED /	Craid &	MOVE	YES TY	TLE GE	ologis	t⇒ :		DATE	11-1-71	

Form approved. Budget Bureau No. 42-R355.6.

DEPARTMENT OF THE INTERIOR structuon on reverse side)  GEOLOGICAL SURVEY								side)	5. LEASE DESIGNATION AND BERIAL NO.  NM-025503  6. IF INDIAN, ALLOTTER OR TRIBE NAME				
WELL CC	OMPLETION	N OR	RECON	MPLETI	I NO	REPOR	1A1	1D LOG	*	3. IF INDIAN,	ALLOT	AN SEIST SO SAT	3K
18. TYPE OF WE	ELL: OI W	VELL XX				Other				7. UNIT AGRE	SEMENT	NAME :	
b. TYPE OF COM		SEED.	rang [	DIFY.	·	Other				S. FARM ON L	LEASE 2	SHAN	, <u>, , , , , , , , , , , , , , , , , , </u>
2. NAME OF OPERA												Federal:	*
	oil Corpo	ratic	o <u>n</u>					!		9. WELL NO.			
P. O. BO	ox 1515 -	Rosv	well,	New M	exic	30_88	3201	1.		10. FIELD AND	Sp Poot,	, OR WILDCAT	
4. LOCATION OF WI	ill (Report locat					state rea		. <b>(i)•</b>	-	Shug	R., M., OR	H DLOCK AND BURY	VET
At top prod. Ir	nterval reported b							E, NMPM		OR AREA		-	-
						Vew Me							~ % <b>_</b>
At total depth				1 14. PERM				E JSSUED	-	12. COUNTY O.	<u>6, 'ı</u>	T-18S, R-	<u>-3</u> 0E
•				1	-		1			Eddy		New Mex	vico -
5. DATE SPUDDED			17. DATE	COMPL. (R	leady to	l l					19. E1	LEV. CASINGHEAD	Zree.
2-7-72	2-13-	72	2-2	21-72				0.7' KB				450.71	-
O. TOTAL DEPTH, NO	A TVD 21. PL	UG, BACK T	F.D., 110 & T	VD 22. 1	IF MULT HOW MA	ANY®	i., .	23. INTERVA	O RY	**************************************		C4812 TOOLS	
3515' 4. PRODUCING INTE Penrose	ERVAL(S), OF THIS 3107-3.		TION—TOP,	BOTTOM: N	ANE (M	ID AND THE	) <del>)•</del> #	The same of the sa	THE	3515'	25.	WAS DIRECTIONAL SUZTEY MADE	i <del>L</del>
Grayburg	3387-3	393'							~ 4079	2	1	No	(0.3
G. TYPE ELECTRIC								- west of		SOMATE .	27. WAS	NO NO	$=$ $\tilde{z}$
Densilog,	Inducti	on El				·	<u> </u>	S. Cours	.:	EXICO		No	
S. CASINO SIZE	7.48		CASIN	NG RECORI	D (Repo	ort all etric	198 set \$	e will)	TING REC	· · · · · · · · · · · · · · · · · · ·			ि.च —:६७
12-3/4"	WEIGHT, LB.	/FT.	720	!-	17岁	LE SIZE	-601	O sx - C				None	<u> </u>
12-3/4" 8-5/8"	34#		1740		1/% 11"	=		0 sx - 0 0 sx.	CTIC	dracen		None 1400'	- 4
8-3/8" 5岁"	<del>24</del> #14#		3515			7/8"		50 sx	- ci	rculat	ed	1.700	
<u> </u>													<u>.</u>
9.			RECORD					30.		BING RECOF			
SIZE	(dk) qot	воттом	8 (QK) K	SACKS CEMI	ENT*	SCREEN (	(012,	SIZE		PTH SET (NO	1   1	PACKER SET (MD)	<u>)</u>
	<u> </u>	<u> </u>				<del></del>		2-3/8'	<u>"  3</u>	143'	-		
1. PERFORATION REG	CORP (Interval, e	lize and n	number)			32.	AC AC	! CID, SHOT, FR	PACTUR	F CEMENT	SOUE	ETE ETC.	
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3387-3393		-				l	7-311			<del></del>		,800 gals	
	, <b>r</b> –	•	•••		J			ge]	lled	wtr +	20,0	000 = 20 - 4	40sand
; ;					1	3387	-339	<del></del> [				350 gals	
<b>3.•</b>				<del></del>	Tiron	CTION	<del></del>	<u>qe</u> ,	<u>llea</u>	wtr +	<u>15, u</u>	<u>000</u>	<u>i</u> 0sand
TE FIRST PRODUCT	ION   PROD	K KOLTON	ETHOD (71	owing, gas			te and t	ype of pump)				(Producing or:	_
2-22-72	Pun	mping	ј 2" х	1½" ×	x 10	' ins	ert	an E		Proc	duci		
TE OF TEST	HOURS TESTED		OKE SIZE	PROD'N. F	FOR	OII,—PBL.		GAS-MCF.	1 %	WATER-BBL.	U.A	AS-GIL RATIO	
2-23-72	24			<u> </u>	<b>→</b> [	97		1-		40 BLW			<del></del> :
OW. TUBING PRESS.	CASING PRESSUE		CULATED HOUR RATE		-	6 vs -	-sicr.	r	AO DE		VARD JIL	VITY-API (CORE.)	
. DISPOSITION OF G	I (Sold, used for	r luel, ven	ated, etc.)	97		1		·   4	40 BI	LW BEST WILKESS	-0 -10 87)		<u> </u>
Vented - 1				dana i			h : 1 1	iva Do	1			in the second se	ege of the second
/ C11 U U U U	mending (	-bst /	⇒nu C/	$JuneG^{f}$	- חטי	nv P.		ne pe			. /		
LIBY OF ATTACHS		test	and c	onnec	tion	by P	<u>1177</u>	tips re	CL4.	DALL II	<u>3</u> -		

*(See Instructions and Spaces for Additional Data on Reverse Side)

•			إيماند	MANALES KA	<b>3</b> し	(111)					
Form 2-330 (Rev. 5-67)	-	(		6(10)	11 m 13.1	REG	V	EDMA	V 10.	and Cottons used	
(Nev. o o			STATES		ait in	(Sec	i. 37 Otherin	, , , , ,	i jign	m fiporoved. get durenu No. 42-R355.5.	
·		TMENT O			R	stru reve	ctions of rse side		SE DESIG	NATION AND RERIAL NO.	
`		GEOLOGICA	AL SURVE	Υ					0255		
WELL CO	OMPLETION	OR RECON	MPLETION	REPORT	AN	D LO	G *	6. IF 1	INDIAN, AI	LLOTTEE OR TRIBE NAME	
Is. TYPE OF WE	ELL: OH WE	LL XX GAS (	DRY []	Other				7. USI	T AGREEM	ENT NAME	
b. TYPE OF CO	MPLETION:			*				<u>                                     </u>			
well, &X		EP. BACK DACK	DIFF. DESVR.	Other				_  ' ' ' ' ' ' '		BE NAME	
2. NAME OF OPER	ator nson Oil (	Corporatio	on					Gin 9. WE	sber	g Federal	
3. ADDRESS OF OF		LE Dogueli	l Mou Ma	vico 0	0000	7		14		2001 OR FILDOR	
P.O. Box 1515-Roswell, New Mexico 88201  4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements).								Shugart			
At surface	ELD (Atport totos		IL & 1650			· ·	,	11. 88	C., T., B., 1	M., OR BLOCK AND BURYET	
At ten prod to	nterval reported be	Sec 26	T-18-S	R-30-E		.M.P	М.	OF.	AREA		
		Eddy Co	ounty, No	ew Mexic	0	•		Sec.	26,	T-18-S,R-30-	
At total depth			14. PERMIT N		5425	ISSUED		12 60	UNTI OR	13. STATE	
•			14. PERMIT N	o. 	DATE	182110		I'A	d v	N.M.	
15. DATE SPUDDED	1	EACHED   17. DATE		to prod.) 18				RT, GR, ET	c.)• 1	O, ELEY, CASINOHEAD	
3-15-72	3-22-7		1-5-72		· · · · · · · · · · · · · · · · · · ·	3449				3449'.	
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24. PRODUCING INT			BOTTOM, NAME	(MD AND TVD)		P . > page	<del>-&gt;</del>	10-34	<del>3</del> 0	25. WAS DIRECTIONAL	
; 3109	- 3113'	Penrose		,		والمناه المناه الم				SURVEY MADE	
3376	- 3382'	Grayburg			MA	Y 78	1070	,,,,,,	<u> </u>	No	
26. TIPE ELECTRIC			. Se •	<i>U.</i> §	S. 684	i i di seri	10/ <u>Z</u>		27.	WAS WELL CORED	
	og, Induct	3	NG RECORD (R	<u> </u>	27 2 (1) 2 (1)	resident.	<u> 3. SI</u>	74.9		No	
CASINO SIZE	WEIGHT, LB./			OLE SIZE	8 866 17			RECORD		AMOUNT PULLED	
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5-1/2"	15.5	349	5'	7-7/8"	110	0 s x		circu	lated	None	
8-50"			3/'	11 ′′	5	75%			<del></del>	1530	
29.	<u> </u>	LINER RECORD			<u> </u>	30.		TUBING	DECORD	<u> </u>	
29.	TOP (MD)	BOTTOM (ND)	SACKS CEMENT	SCREEN (M		SIZE	1.	DEPTH SE		PACKER SET (MD)	
				2-3/8"			3405'		3182'		
							_				
31. PERFORATION RE				32.	ACI	D, SHOT	FRACT	URE, CE	MENT SO	WEEZE, ETC.	
3109 - 31	13', 0.41	", 12 hol	es	DEPTH INT				110-200		MATERIAL CSED	
3314 ~ 33	3314 - 3318', 0.41'', 12 holes 3314 - 3318' 20, 70.							000 gal.gelled wtr. + 000# 20-40 sand + 500g			
				3109	- 3	113'		the control of the co		lled wtr. +	
										sand + 500	
33.* DATE FIRST PRODUCT	TION TOOM	CTION METHOD (FI		DUCTION						tus (Producing or	
4-5-72	PRODE	CIION MEIMOD (71		wing	ana iyi	oe oj pun	·p)		shut-in)	Producing	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	FROD'N. FOR	OIL—BBL.	<u></u>	OK840	. F.	WATER-	-BBL.	GAS-OIL RATIO	
4-5-72	24	18/64"	TEST PERIOD	25				1	• *		
200#	CASING PRESSUR	E CALCULATED 24-HOUR RATE	OIL—BBL.	GAS-	XCF.	<del></del> -	WATER-	-BBL.	OIL	380	
34. DISPOSITION OF C	900#	fuel, vented, etc.)	25					I TEST W	TNESSID		
and the second second second second second	nding con		y Philli	ps Petr	olei	um	•			rgan	
35. LIST OF ATTACH				. 7				·			
Deviation	Survey,	2 copies-	logs	N		. res			<u> </u>		
36. I hereby certify	inat ine letegola	yano attached lof	ormation is comp	1000			d from	ali availa			
SIGNED	IOLA E. KA	Moder	TITLE	Geolo	9151	t		· . r	M — etak	ay 15, 1972	

*(See Instructions and Spaces for Additional Data on Reverse Side)

NMOCD CASE 7136, EXHIBIT "F" Sec. 26-18S-30E, Eddy Co., N. M.

## ACCUMULATIVE OIL PRODUCTION

	#8 Ginsberg A-26-18-30 Comp 11-15-71	#9 Ginsberg H-25-18-30 Comp 10-30-71	#13 Ginsberg G-26-18-30 Comp 2-21-72	#14 Ginsberg B-26-18-30 Comp 4-5-72
Thru 12-31-79	21,142	89,850	59,590	7,973
Jan. 80	29	367	380	105
Feb. 80	24	299	355	97
Mar. 80	26	319	339	92
Apr. 80	26	322	333	91
May 80	29	369	321	88
June 80	33	410	156	43
July 80	28	355	178	49
Aug. 80	28	346	273	74
Sep. 80	29	369	232	63
Oct. 80	20	249	40	11
Nov. 80	37	462	507	138
Dec. 80	31	388	272	74
TOTAL 1980	340	4355	3386	925
Thru 12-31-80	21,482	94,205	62,976	8,898 ^{D - S}

ARTHUR R BROWN ARTHUR R BROWN
101 E. Mariand
Hobbs, New Merico 88240
Office (505) 397-2767
Home (505) 392-5642

### PETROLEUM

"Specializing in Oil and Gas Operations on Federal Lar

## ENGINEERING & REGULATORY **SERVICES**

1501 W. Missouri Artesia, New Mexico 88210

Case 7136

January 5, 1981

New Mexico Oil Conservation Division P. 0. Box 2088 Santa Fe, New Mexico 87501

Re: Application of Hanson Oil Corporation for an Amendment of the Potash-Oil Area, Eddy County, New Mexico.

#### Gentlemen:

Hanson Oil Corporation is the owner of the oil and gas rights underlying the NE $\frac{1}{4}$  Sec. 26, T. 18 S., R. 30 E., Shugart Pool, Eddy County, New Mexico. The acreage is covered by Federal OII and Gas Lease New Mexico 025503 and is within the Potash-Oil Area as designated in Order No. R-111-A, as amended.

The 160-acre tract is within the Wills-Weaver Mine Area, an isolated potash island in which mining operations were abandoned in 1971. The Wills-Weaver Area is located over 2 miles from the main portion of the Potash-Oil Area. See Exhibit "A".

Exhibit "8" shows the 160-acre tract in relation to the limits of the mined-out area of the Wills-Weaver Mine. The applicant has drilled four shallow wells in the NE4 Section 26, and is contemplating the drilling of one to three additional wells on each of the 40-acre spacing units in the 160-acre tract. We week elimination of the 160-acre tract from the Potash-Oil Area.

Hanson Oil Corporation respectively requests a hearing before the Division for an amendment of Order No. R-111-A to exclude the NE4 Section 26, T. 18 S., R. 30 E., Eddy County from the Potash-Oil Area, or in the alternative, for an exception to the casingcementing requirements of Order No. R-111-A.

James A. Agent, HANSON OIL CORPORATION

Copies to:

Duval Corp., Box 511, Carlsbad

U.S.G.S., Carlsbad U.S.G.S., Albuquerque

U.S.G.S., Roswell

U.S.G.S., Artesia

N.M.O.C.D., Artesia

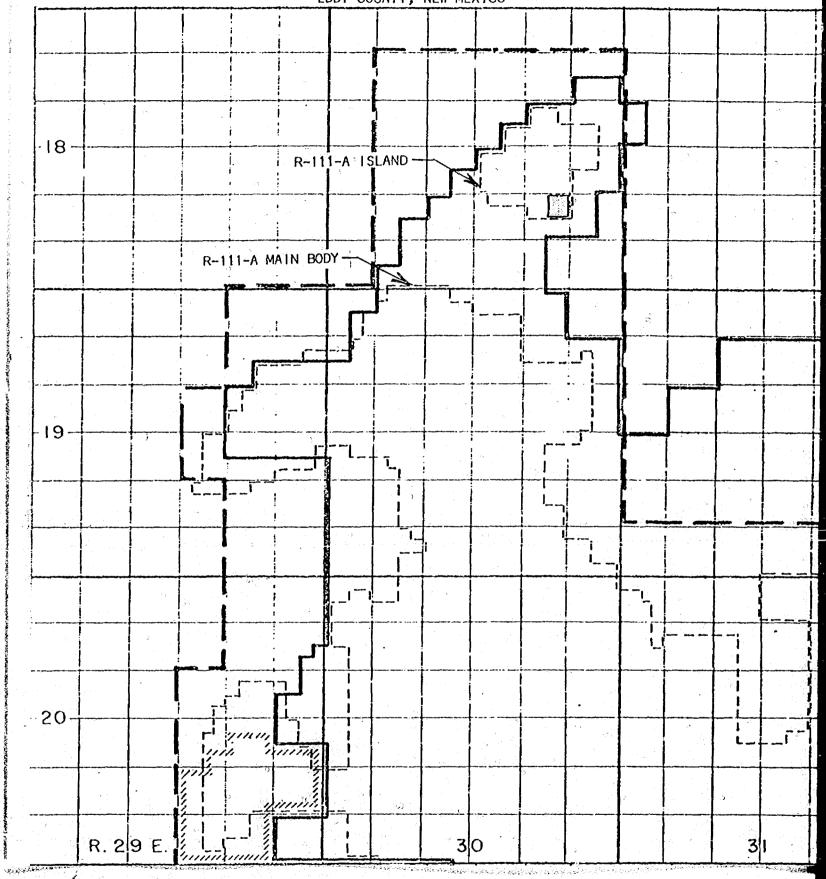
EXHIBIT "A"

PORTION OF R-111-A AREA

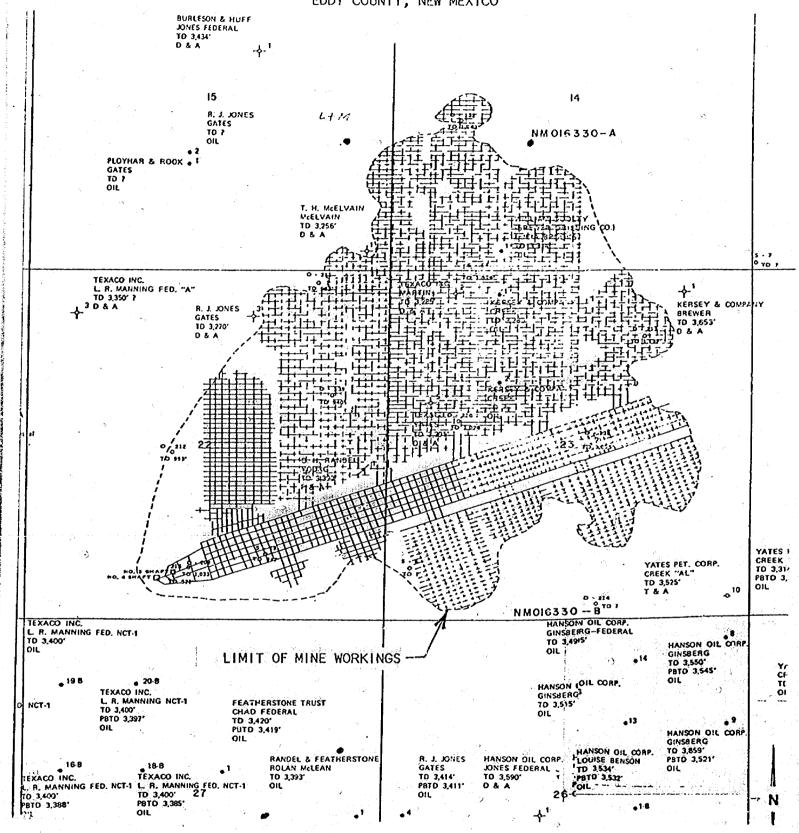
HANSON OIL CORPORATION

NE# SEC. 26-185-30E

EDDY COUNTY, NEW MEXICO



# EXHIBIT "B" MINE WORKINGS OF WILLS-WEAVER MINE HANSON OIL CORPORATION NE# SEC. 26-18\$-30E EDDY COUNTY, NEW MEXICO



ARTHUR R. BROWN 101 E. Marland Hobbs, New Mexico 88240 Office (505) 397-2767 Home (505) 392-5642

#### PETROLEUM

JAMES A. KNAUF 1501 W. Missouri Artesia, New Mexcio 88210 Phone (505) 746-4138

### ENGINEERING & REGULATORY

#### **SERVICES**

1501 W. Missouri Artesia, New Mexico 88210

ase 7/36

RECEIVED

January 5, 1981

JAN 1 2 1981

O. C. D. ARTESIA, OFFICE

New Mexico Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87501

Re: Application of Hanson Oil Corporation for an Amendment of the Potash-Oil Area, Eddy County, New Mexico.

Gentlemen:

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Exhibit "B" shows the 160-acre tract in relation to the limits of the mined-out area of the Wills-Weaver Mine. The applicant has drilled four shallow wells in the NE4 Section 26, and is contemplating the drilling of one to three additional wells on each of the 40-acre spacing units in the 160-acre tract. We week elimination of the 160-acre tract from the Potash-Oil Area.

Hanson Oil Corporation respectively requests a hearing before the Division for an amendment of Order No. R-111-A to exclude the NE $\frac{1}{4}$  Section 26, T. 18 S., R. 30 E., Eddy County from the Potash-Oil Area, or in the alternative, for an exception to the casing-cementing requirements of Order No. R-111-A.

Sincerely.

Yames A. Knauł Agent, HANSON OIL CORPORATION

Copies to:

Duval Corp., Carlsbad U.S.G.S., Carlsbad U.S.G.S., Albuquerque U.S.G.S., Roswell

U.S.G.S., Artesia

# EXHIBIT "B" MINE WORKINGS OF WILLS-WEAVER MINE HANSON OIL CORPORATION NE# SEC. 26-18S-30E EDDY COUNTY, NEW MEXICO

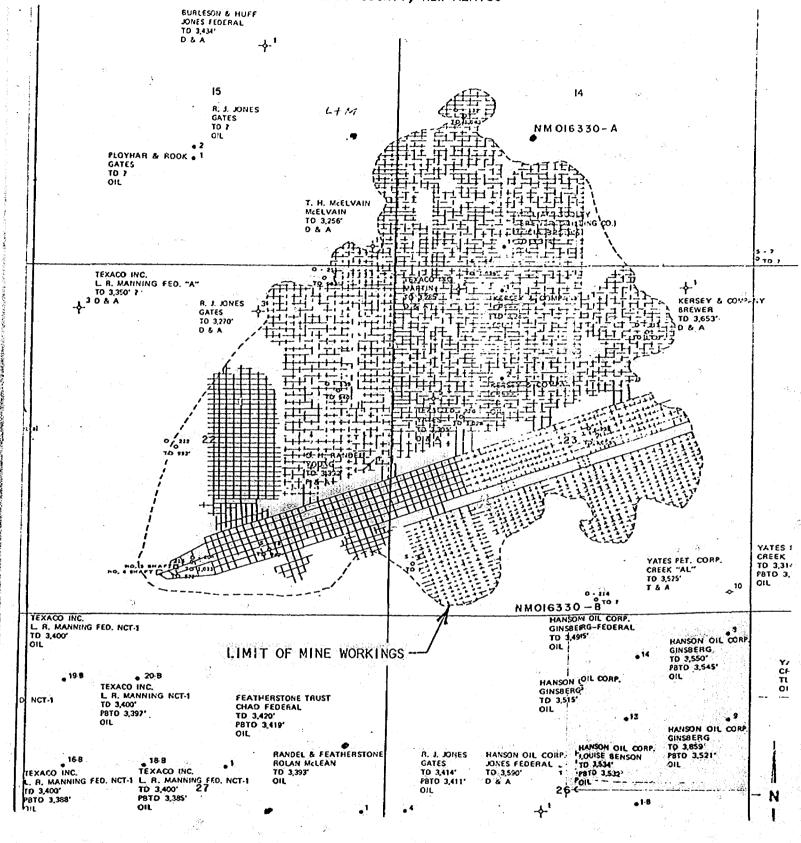


EXHIBIT "A"

PORTION OF R-111-A AREA
HANSON OIL CORPORATION
NE# SEC. 26-18S-30E
EDDY COUNTY, NEW MEXICO -18 R-111-A ISLAND-R-111-A MAIN BODY -19 20 R. 29 E. 30 31

Application of Hanson Dillorp for good an amendment of 2-11/19 Edg County NM Seeks the elimination NE/4 of 26-V-185-R30e from 800 The Potosh Oil Freu In the alternative applicant Seeks exception to the cosing ondementing jules of 8-11-Afor 15 wells to drilled within the NC/4 of soid Section 26. Phoned in by Jim Knauf 2 strings circulated 508 + or-3500 Queen - 6,6

## ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

CASE NO. 7136 Order No. R-6587

APPLICATION OF HAMEON OIL.

CORPORATION FOR THE CONTRACTION OF THE POTASH-OIL AREA, OR INTHE

ALTERNATIVE, AN EXCEPTION TO THE CASING-CEMENTING RULES

OF P-III-A, EDDY COUNTY, NEW MEXICO.

#### ORDER OF THE DIVISION

Hon

#### BY THE DIVISION:

This cause came on for hearing at 9 a.m. on James 28, 1981, at Santa Fe, New Mexico, before Examiner Daniel Simultin

NOW, on this _____ day of ____, 1981, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

#### FINDS:

- (1) That due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.
- the contraction of the Potash-Oil Area as defined by Order No. R-111-A, as amended, by the deletion of the NE/4 of Section 26, Township 18 South, Range 30 East, NMPM, Eddy County, New Mexico, or, in the alternative, applicant seeks an exception to the Casing-Cementing rules prescribed by Order No. R-111-A for 1021/s it proposes to drill in the NE/4 of Said Section 26 to permit it to set surface casing at at least 600 feet and production casing at total depth in the Gray burg formation, circulating cement to the surface on both string

That the evidence presented indicates that there are no potash mining operations nor deposits of commercial potash ore in the subject area, there is insufficient quotogical and

Enqueering data available in the record of this case to just in the deletion of the subject bonds from the Potash-Dil Area, and the application for such deletion shopes be denied:

(4) That the proposed method of completion for shallowzone walls in the subject area should be safe and and not result in endangerment of potash resources or operations, provided however,

3

- (5) That the production casing should be cemented with a volume of cement sufficient to circulate back to the surface.
- (6) That the applicant should report the following both to the district office of the Division and the U.S.C.S. and may be required to circulate cement to the surface around the production casing:
  - (a) Any water flows encountered:
  - (b) The top of the cement around the production casing as determined by temperature survey if such cement does not circulate.
- (7) That approval of the subject application will protect correlative rights, will prevent waste and will not cause the waste of potash.
  - (g) The application should be approved.

#### IT IS THEREFORE ORDERED:

(1) That the applicant, Nauson Oil Corporation, is hereby authorized an exception to the casing-cementing rules for the Oil-Potash Area as promulgated by Order No. R-111-A to permit the completion of several walks in the NE/4 of Section 26, Taxusian 18

South, Range 30 East, NMPM, Eddy County New Mexico by setting surface casing at a depth of at least 600 feet and production casing at total depth with a volume of cement calculated to be sufficient to circulate back to the surface.

PROVIDED HOWEVER, that the applicant shall report the following, both to the district office of the Division and the U.S.G.S.:

- (a) Any water flows encountered; and
- (b) The top of the cement around the production casing as determined by temperature survey if such cement does not circulate.

PROVIDED FURTHER, that the applicant may be required to re-cement the production casing to the surface if cement on said casing did not circulate to the surface.

(3) That the application to delete certain lands from the Pohash-Oil Circa is herely denied:

-3-Case No. Order No. R ....

(%) That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year herein-above designated.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

JOE D. RAMEY Director

SEAL

fd/