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	1	BEFORE THE	
		NEW MEXICO OIL CONSERVATION COMMISSION	
	2	CONFERENCE ROOM, STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO	
	3	May 5, 1972	
	4	EXAMINER HEARING	
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	5)	
-	6	IN THE MATTER OF:)	
	7	Application of Penasco Corporation)	
	1	for a unit agreement, Eddy County,) CASE NO, 4699	
	8	New Mexico.	
	9	and)	
	10	Application of Penasco Corporation)	
	11	for a waterflood project, Eddy) CASE NO. 4700 County, New Mexico.)	
SNG	40)	
87103	12	/	
PY, CON	13	BEFORE: Elvis A. Utz	
ERT TESTIMONY, DAILY COPY, CONVENTIONS Leuquerque, new mexico 87103 E, new mexico 87108	14	Examiner	
₩, DA 10. 10. 10.	15		
RT TESTIMONY, D. Buquerque, New Mexico	16		
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DEPOSITIONS, HEARINGS, STATEMENTS, EXP 5.• P.O. Box 1092.• Phone 243-6691.• A al bank bldg. East • Albuquerqu	18		
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NS, HEARIN 0 x 1092 • F BLDG. EA	20		
POSITION: P.O. BO BANK B	21	TRANSCRIPT OF HEARING	
†: depc dg.●p. var b.	22		
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SPECIALIZING IN: DE 209 Simms Bldg.• First national	24		
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MR. UTZ: Case 4699. 1 MR. HATCH: Application of Penasco Corporation for 2 a unit agreement, Eddy County, New Mexico. 3 MR. LOSEE: A. J. Losee, of Artesia, New Mexico, 4 appearing on behalf of the Applicant. 5 MR. UTZ: Any other appearances in this Case? б (No response.) 7 MR. HATCH: Did you wish to consolidate the two 8 Cases? 9 MR. LOSEE: Yes. 10 MR. HATCH: Case 4700 is the Application of Penasco 11 Corporation for a waterflood project, Eddy County, New Mexico. 12 MR. LOSEE: A. J. Losee, appearing also on behalf 13 of the Applicant in Case 4700. We have one witness. 14 RALPH GRAY, 15 was called as a witness and, after being duly sworn, testified 16 as follows: 17 MR. LOSEE: Before commencing, Mr. Hatch, I would 18 like to amend the Application in Case 4700. The publication 19 notice was correct in listing the correct description, but 20 paragraph F of the Application, in describing the location 21 of one of the injection wells, described it as being located 22 in Section 2 and it should be in Section 17. The publication 23 notice is correct. 24 MR. UTZ: That is in your Application?

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	1		MR. LOSEE: Yes, paragraph 3, the last well in
	2	Sect	ion 17.
	3		DIRECT EXAMINATION
	4	BY M	R. LOSEE:
	5	Q	Will you state your name and residence, and occupation?
	6	A	Ralph Gray, Artesia, New Mexico. I am a consulting
	7		Engineer.
	8	Q	Have you previously testified before this Commission
	9		and had your qualifications made part of the record?
	10	А	Yes, sir.
	11	Q	Would you state the purpose of the Application in Case
103	12		4699?
NEW MEXICO 87103 87108	13	А	Case 4699 requests authorization for Unit agreement.
EW ME) 7108	14	Q	What is the purpose of Case 4700?
	15	A	Case 4700 requests authorization to conduct a waterflood
IQUER EW ME	16		project and inject water.
I●ALBL QUE, N	17		MR. LOSEE: Mr. Examiner, in examining Exhibit 2,
243-6691●ALBUQUERQUE, BUQUERQUE, NEW MEXICO	18	whic	h is the Unit agreement, we would like to send you a
HONE N T • ALB	19	сору	of the Exhibit the first part of the week by mail.
1092 • P 0 G. EAS	20		We will deliver it to you.
P.O. BOX 1092. PHONE BANK BLDG. EAST AL	21	Q	(By Mr. Losee) Please refer to what has been marked
06.● P.0 IAL BA	22		as Exhibit 1, Mr. Gray, and explain what is shown on
IMS BLE NATION	23		this Exhibit.
209 SIMMS BLDG.0 FIRST NATIONAL	24	A	Exhibit 1 shows the general area in the proposed Unit.
	25		The boundary line for the proposed Unit is shown by

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cross hash lines.

This Exhibit shows the proposed injection wells. I would like to comment a little bit further on the injection wells shown in the south half of the SE/4 of Section 8.

At the time this map was prepared the Applicant was considering obtaining approval to convert either Well Number 1, or Well Number 3 for injection and, at that time, it wasn't known just which one would be used.

But, since that time, the Applicant has decided on Well Number 1.

> MR. UTZ: What location?

THE WITNESS: Three hundred thirty feet from the 14 south line and 1,650 feet from the east line of Section 8. 15 (Continuing) So the Applicant is requesting permission Α 16 to use, at this time, four injection wells. One well is to be located in the SW/4 of the NW/4 of Section 16; 18 one well is to be located in the SW/4 of the NE/4 of Section 17: one well to be located in the SW/4 of the 20 SE/4 of Section 8 and the fourth well to be located in 21 the SE/4 of the SW/4 of Section 9. 22

Please refer to what has been marked as Exhibit 1-A and Q 23 explain what is shown on Exhibit 1-A. 24

Exhibit 1-A is a map showing a larger area than is А

1		covered in Exhibit 1 and the purpose of this Exhibit
2		is to show wells within a two mile radius which is
3		requested by the Rules and Regulations of the Commission.
4	Q	Out of this 320 acre proposed unit, Mr. Gray, how many
5		acres is State land and how many acres are Federal land?
6	A	There are 400 acres of Federal land and 120 acres of
7		State land.
8	Q	And that is made up of five tracts?
9	A	Yes, sir.
10	Q	Please refer to the unit agreement which has been
11		marked as Exhibit 2, and explain what formations are
12		unitized under this agreement.
13	A	The Queen formation is the formation which is unitized
14		under this agreement.
15	ç	It is paragraph 2-G, page 3, if you wish to elaborate.
16	А	In order that this could be more closely identified,
17		the formation occurring in the Grayburg Number 1 Well
18		located 330 feet from the south and 1,650 feet from the
19		east line in Section 8, Township 17 South, Range 31 East,
20		at a depth of 3,110 to 3,162 as recorded in the Well's
21		neutron log dated December 4, 1957.
22	Ŏ	Mr. Gray, Section 13, -20, paragraph 15 of the unit
23		agreement established a tract and the basis for tract
24		participation, what formula was utilized?
25	A	The formula utilized is primarily oil recovery, in fact,
	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	2 3 4 2 3 4 2 3 4 2 4 2 3 4 2 3 4 2 2 3 4 2 2 2 3 2 4 2 2 2 3 2 4 2 2 2 3 2 4 2 2 2 3 2 4 2 2 2 2 2 2 3 2 2 2 2 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2

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1		it is 100 percent primary recovery.
2	Q	Let me ask you whether or not all the interested owners
3		and both the working and overriding royalty interests
4		have ratified this unit agreement?
5	A	Yes, it is my understanding that they have all ratified
6		the agreement.
7	Q	So there is actually 100 percent commitment in the
8		unitized areas?
9	A	Yes, sir.
10	Q	Under Section 22, -1A, when will your unit agreement
11		become effective?
12	A	The agreement will become effective when the working
13		interest owners, with combined unit participation, have
14		at least eighty-five percent ratification and the
15		combined unit has sixty-five percent of the royalty
16		interests in the unit area.
17	Q	And also approval of the supervisor of the U.S.G.S. and
18		the Land Commissioner of the State of New Mexico?
19	A	Yes.
20	Q	Has the State given its tentative approval to the form
21		of the agreement and the proposed area?
22	A	Yes.
23	Q	On what date?
24	A	That was given on December 16, 1971.
25	Q	Has the Commissioner of Public Land of the State of
	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	2 3 4 5 4 5 4 5 4 5 4 5 4 5 4 5 6 7 20 11 12 4 13 14 15 16 17 20 18 19 10 21 21 22 21 22 21 22 21 22 21 22 21 22 21 22 21 22 21 22 21 22 21 22 21 22 21 22 23 24 20 25 25 25 25 25 25 25 25 25 25

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	1		New Mexico approved the form of the unit agreement?
	2	A	Yes, they approved it on December 27, 1971.
	3	Q .	Mr. Gray, do you have an opinion as to whether or
	4		not the method of allocation of production in the
	5		various tracts in the unitized area is fair and
	6		equitable?
	7	A	Yes, I think all the wells are marginal and as they
	8		reach the economic limits, you might say that 100 percent
	9		primary should be equitable.
	10	Q	Please refer to what has been marked Exhibit 3 and
	11		explain what is shown on this Exhibit.
εo	12	A	Exhibit 3 is a table showing the various well data for
EXICO 87103	13		each of the wells located within the proposed unit
NEW MEX 87108	14		area.
NE, NI	15		This also shows the studies of the area and
BUQUERQUE, NEW MEXICO	16		also shows the status of the primary recovery for
— ш	17		each well, as of January 1, 1971.
43-6691 UQUER	18		A portion of these wells were completed with
HONE 2 T●ALB	19		pipe set above the pay and they have open hole.
1092 e P	20	Q	There are fifteen wells in the unitized area; are
N. BOX NK BLD	21		there not?
DG. P.C	22	A	That's right.
209 SIMMS BLDG. P.O. BOX 1092 PHONE 243-6691 A First National Bank Bldg. East-Albuquerqu	23	Q	How many of those are plugged and abandoned, at this
209 SIM First r	24		point?
- ±	25	A	Six are plugged and abandoned.
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	1	Q	How many are shut-in?
	2	A	Two.
	3	Q	And the remainder are producing?
	4	A	Seven are producing, I believe.
	5	Q	Does your Exhibit show the accumulative production of
	6		these wells?
	7	A	Yes, and the total accumulative production for the
	8		entire area is approximately 500,000 barrels.
	9	Q	Please refer to what has been marked as Exhibit 4 and
	10		explain what is shown by this Table.
	11	А	Exhibit 4 is a Table showing recent production for
87103	12		each of the producing wells. It will be noted that
EXICO 87	13		the Grayburg "A" wells are producing approximately
NEW ME. 87108	14		one barrel of oil a day and the wells on the Panako
QUE. N XICO 8	15		State Lease are producing around three and one-half or
JQUERQUE. JEW MEXICO	16		four barrels per day.
1●ALBU RQUE, NI	17	Q	So that these wells are in the late stages of
243-669 BUQUE	18		completion?
°HONE ST●ALI	19	A	Yes, sir.
P.O. BOX 1092. PHONE 243-6691. AL BANK BLDG. EAST. ALBUQUERQUE	20	Q	Please refer to what has been marked as Exhibit 5 and
.O. BOX Ank Bl	21		explain what is shown on this Exhibit.
DG. NAL B.	22	A	Exhibit 5 is a radioactive log of the Penasco-Grayburg
209 SIMMS BLDG.	23		Number 1 Well. This is located in Section 8 and the
209 SI FIRST	24	i.	perforations are indicated on the log and further identified
	25		by the yellow coloring. It shows the portion of the

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	1		Queen Sand that is considered to be oil pay.
	2	Q	Referring to Exhibit 5-A, explain what is shown on
	3		Exhibit 5-A.
	4	A	Exhibit 5-A is a radioactive log of the Penasco State
	5		Number 1 Well and that log also is identified by the
	6		perforated interval and the pay section shown by the
	7		yellow coloring.
	8	Q	Are these two logs the only electric logs available
	9		on any of the wells in the unit?
	10	А	Yes, they are.
	11	Q	Please refer to Exhibits 6, 6-A, 6-B and 6-C, and
2	12		explain what is shown by these Exhibits.
- 	13	A	All four of these Exhibits are diagrammatic sketches
108	14		of the proposed injection wells.
EW MEXICO 87108	15		Exhibit 6 shows the Penasco-Magnolian State Number
X II X I	16		l Well in this case, five and one-half inch casing is
Z	17		set to the bottom of the pay zone and it is perforated
BUQUERQUE.	18		from 3,180 to 3,212.
	19		In the case of Exhibit 6-A, it is a diagrammatic
BLDG. EASTOAL	20		sketch of the Penasco Number 2 Well in this Case. Seven
ANK BLD	21		inch casing was set above the pay. All these Exhibits
L DD	22		also show the surface casing and the estimated top
ATION.	23		cement line.
FIRST NATIONAL	24		Exhibit 6-B shows the Penasco-Grayburg Number 1
. ш.	25		Well in this Case. The casing has been set through the

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209 SIMMS BLDG. P.O. BOX 1092 PHONE 243-6691 ALBUQUERQUE, NEW MEXICO 87103

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	1		pay.
	2		Exhibit 6-C shows the Grayburg Number 2 Well.
	3		This well is open hole.
	4	Q	Mr. Gray, how does the Applicant propose to complete
	5		these wells for injection?
	6	A	These wells will be cleaned out and the Applicant
	7		wishes approval to have the option of either injecting
	8		down the casing or run tubing with a Packer, which
	9		would be set above the pay zone.
	10		If approval is given for injecting the water
	11		down the casing, the Applicant agrees to pressure test
	12		each casing string up to 2,000 pounds per square inch
	13		before injecting through it.
80	14	Q	Mr. Gray, have you made a study in this particular
NEW MEXICO 87108	15		area, to determine whether or not there is any water
W MEXI	16		bearing zones, shallow water bearing zones?
-	17	A	Yes, we don't have any indication that there are any
QUERQ	18		fresh water zones, commercial zones, in the shallow
●ALBU	19		formations.
. EAST	20	Q	What will be the injection rate proposed by the
	21		Applicant?
L BAN	22	A	Well, the Applicant estimates that the rate will be
FIRST NATIONAL BANK BLDG. EAST ALBUQUERQUE	23		up to approximately 400 barrels of water per day and
Z TST	24		possibly with a maximum pressure of 1,800 pounds per
LL.	25		square inch.

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	1	Q	Does the Applicant have an opinion as to the life
	2		of this flood?
	3	A	Well, I think we have a good indication by the good
	4		Atlantic Richfield flood in the Shugart area and the
	5		particular flood I am referring to is in Section 14,
	6		of Township 18 South, Range 31 East.
	7		This is approximately two and one-half miles
	8		east of the proposed unit area.
	9		Atlantic Richfield conducted a flood which, at
	10		the present time, is essentially plugged out, but
	11		their flood was for approximately five years duration.
е О	12		So, I think that is a pretty good estimate on what to
CO 87103	13		expect as to our flood life.
NEW MEXICO 87108	14	Q	Mr. Gray, taking into consideration the lack of fresh
	15		water bearing zones in the area, when you pressure tested
BUQUERQUE. . NEW MEXICO	16		the casing and the limited life of the flood, plus, I
	17		suppose the economics of it, do you feel that injecting
13-6691	18		down the casing is a satisfactory method, under these
IONE 24	19		circumstances?
209 SIMMS BLDG.& P.O. BOX 1092&PHONE 243-6691&AL First national bank bldg. East&albuquerque	20	A	Yes, I think it is a very reasonable approach, under
BOX 1 K BLDO	21		these circumstances.
G.● P.O. Al BAN	22	Q	Where will the water be obtained from to use in the
ATION	23		flood?
1 1 1 2 2 1 M 1 2 2 1 M 1 2 1 2 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 2 1 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 1 2 1	24	A	This water will be purchased from the Double Eagle
ON LL	25		Water Company as fresh water.
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	1	Q	Does the Applicant propose to reinject the produced
	2		water?
	3	А	Yes, sir.
	4	Q	Do you have an opinion as to the ratio of secondary
	5		oil as to primary oil that will be recovered in the
	6		project?
	7	A	Well, the Hudson flood, which was the closest flood
	8		to the proposed unit area, this flood is located
	9		approximately one mile from the proposed unit and,
	10		up to the present time, that flood has recovered 2.3
	11		of primary recovery and it has some way to go yet.
NEW MEXICO 87103 87108	12		I would say that roughly, $approximately$ one to
	13		one of secondary primary will be obtained in the flood
ИЕ W МЕ 17108	14		and I consider these two areas similar.
	15	Q	And that 500,000 barrels of secondary oil would not
ALBUQUERQUE. UE, NEW MEXICO	16		otherwise be recovered?
₽₫	17	A	That is correct.
243-669 BUQUEF	18	Q	Were Exhibits 1 through 6 and all the sub-numbers,
°HONE ST●AL	19		except the unit agreement, prepared by you or under
1092 • 06. E.	20		your supervision?
0. B0 ANK B	21	A	Yes.
шm	22		MR. LOSEE: We move for the introduction of
209 SIMMS BLDG. FIRST NATIONAL	23	Exhi	bits 1 through 6 with the sub-numbers.
209 SI FIRST	24		MR. UTZ: Exhibits 1 through 6, including the
	25	sub-	numbers, will be entered into the record of this Case.

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	1	(Whereupon, the aforementioned Exhibits were
	2	admitted in evidence.)
	3	MR. LOSEE: Mr. Examiner, that is all I have
	4	on Direct. I would like to bring to the Commission's
	5	attention that one of the purposes of the Application was to
	6	ask for Administrative Procedure to convert additional wells
	7	for injection in the event the Applicant proposes to change
	8	its pattern, at a later date.
	9	MR. UTZ: Does that complete your Case?
	10	MR. LOSEE: Yes.
	11	CROSS-EXAMINATION
87103	12	BY MR. UTZ:
	13	Q Mr. Gray, what will be the deciding factor in whether
NEW MEXICO 87108	14	you inject through tubing or casing?
	15	A Well, I suppose that the Applicant probably hasn't
BUQUERQUE. NEW MEXICO	16	gotten to the point where he has made a definite
أسلہ ا	17	decision. Just about everything in regard to the
243-669 3UQUER	18	waterflood will be done, in fact, there is the further
HONE :	19	possibility of maybe using water from these other
1092. EA	20	areas.
D. BOX	21	There are a lot of aspects to this thing that you
0.6 P.0	22	usually decide when you get closer to the time.
209 SIMMS BLDG. P.O. BOX 1092 PHONE 243-5691 A	23	It may have something to do with what materials
209 SIM FIRST 1	24	might be available. I really can't say what will be
	25	decided finally, but I think in either Case, that this

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method will be a satisfactory way of conducting the waterflood. One thing which we haven't mentioned is this oil

production is coming from the Queen Sand which is a sweet type of crude sand formation and it is not corrosive, there is very little water produced by the primary method from this sand and over the great number of years that we have been operating in the field, we have never seen any indication of corrosion by the primary operation.

So you would expect a casing in these wells to be just like new.

Q You haven't noticed corrosion either internally or externally?

15 A No, sir.

MR. UTZ: Any other questions?

CROSS-EXAMINATION

18 BY MR. STAMETS:

Q These other floods you mentioned in the area, do you know if these used tubing or Packers, or whether they injected by casing?

22 A I am not able to answer in the case of the Atlantic
23 Richfield flood.

In the Hudson Marathon flood, the operator injected
down tubing in that case.

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	1	MR. STAMETS: That's all I have.
	2	MR. UTZ: Any further questions?
	3	(No response.)
	4	MR. UTZ: If not, the witness may be excused.
	5	(Witness excused.)
	6	MR. UTZ: Any statements in this Case?
	7	(No response.)
	8	MR. UTZ: The Case will be taken under advisement
	9	the Cases will be taken under advisement.
	10	Let the record show, and I think it already does,
	11	that these Cases were consolidated, but separate Orders will
601	12	be written.
100 87	13	
NEW MEXICO 87103 87108	14	
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BUQUERQUE. , NEW MEXICO	16	
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243-669 3UQUEF	18	
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STATE OF NEW MEXICO)) ss COUNTY OF BERNALILLO)

I, RICHARD E. McCORMICK, a Certified Shorthand Reporter,
in and for the County of Bernalillo, State of New Mexico,
do hereby certify that the foregoing and attached Transcript
of Hearing before the New Mexico Oil Conservation Commission
was reported by me; and that the same is a true and correct
record of the said proceedings to the best of my knowledge,
skill and ability.

CERTIFIED SHORTHAND REPORTER

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1	<u>i</u> <u>n</u> <u>d</u> <u>e</u> <u>x</u>	<u></u>	
2	WITNESS:		PAGE
3	RALPH GRAY		
4	Direct Examination by Mr. Losee		4
5	Cross-Examination by Mr. Utz		13
6	Cross-Examination by Mr. Stamets		14
7			
8	<u>E X H I B I T S</u>		
9	APPLICANT'S (Penasco)	OFFERED	ADMITTED
10	Exhibit Number 1	4	12
11	Exhibit Number 1-A	5	12
12	Exhibit Number 2	6	12
13	Exhibit Number 3	8	12
<u>14</u>	Exhibit Number 4	9	12
5 14 15 15 16	Exhibit Number 5	9	12
Σ 16	Exhibit Number 5-A	10	12
	Exhibit Number 6	10	12
18 18	Exhibit Number 6-A	10	12
19	Exhibit Number 6-B	10	12
, 20	Exhibit Number 6-C	10	12
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17 18 19 19 20 21 22 23 24			
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