Case Number 11700

Application
Trascripts

Small Exhibits

ETC.

SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONS

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MR. UTZ: Case 4699.

MR. HATCH: Application of Penasco Corporation for a unit agreement, Eddy County, New Mexico.

MR. LOSEE: A. J. Losee, of Artesia, New Mexico, appearing on behalf of the Applicant.

MR. UTZ: Any other appearances in this Case?
(No response.)

MR. HATCH: Did you wish to consolidate the two Cases?

MR. LOSEE: Yes.

MR. HATCH: Case 4700 is the Application of Penasco Corporation for a waterflood project, Eddy County, New Mexico.

MR. LOSEE: A. J. Losee, appearing also on behalf of the Applicant in Case 4700. We have one witness.

RALPH GRAY,

was called as a witness and, after being duly sworn, testified as follows:

MR. LOSEE: Before commencing, Mr. Hatch, I would like to amend the Application in Case 4700. The publication notice was correct in listing the correct description, but paragraph F of the Application, in describing the location of one of the injection wells, described it as being located in Section 2 and it should be in Section 17. The publication notice is correct.

MR. UTZ: That is in your Application?

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MR. LOSEE: Yes, paragraph 3, the last well in Section 17.

DIRECT EXAMINATION

BY MR. LOSEE:

- Q Will you state your name and residence, and occupation?
- A Ralph Gray, Artesia, New Mexico. I am a consulting Engineer.
- Q Have you previously testified before this Commission and had your qualifications made part of the record?
- λ Yes, sir.
- Q Would you state the purpose of the Application in Case 4699?
- A Case 4699 requests authorization for Unit agreement.
- Q What is the purpose of Case 4700?
- A Case 4700 requests authorization to conduct a waterflood project and inject water.

MR. LOSEE: Mr. Examiner, in examining Exhibit 2, which is the Unit agreement, we would like to send you a copy of the Exhibit the first part of the week by mail.

We will deliver it to you.

- Q (By Mr. Losee) Please refer to what has been marked as Exhibit 1, Mr. Gray, and explain what is shown on this Exhibit.
- A Exhibit 1 shows the general area in the proposed Unit.

 The boundary line for the proposed Unit is shown by

I would like to comment a little bit further on the injection wells shown in the south half of the SE/4

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cross hash lines.

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.

This Exhibit shows the proposed injection wells.

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

MR. UTZ: What location?

THE WITNESS: Three hundred thirty feet from the south line and 1,650 feet from the east line of Section 8.

- A (Continuing) So the Applicant is requesting permission 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; 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 SE/4 of Section 8 and the fourth well to be located in the SE/4 of the SW/4 of Section 9.
 - Please refer to what has been marked as Exhibit 1-A and explain what is shown on Exhibit 1-A.
- A Exhibit 1-A is a map showing a larger area than is

covered in Exhibit 1 and the purpose of this Exhibit

requested by the Rules and Regulations of the Commission.

Out of this 320 acre proposed unit, Mr. Gray, how many

There are 400 acres of Federal land and 120 acres of

Please refer to the unit agreement which has been

And that is made up of five tracts?

acres is State land and how many acres are Federal land?

is to show wells within a two mile radius which is

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State land.

Yes, sir.

marked as Exhibit 2, and explain what formations are 11 unitized under this agreement. 12 The Queen formation is the formation which is unitized Α 13 under this agreement. 14 It is paragraph 2-G, page 3, if you wish to elaborate. Q 15 In order that this could be more closely identified, Α 16 the formation occurring in the Grayburg Number 1 Well 17 located 330 feet from the south and 1,650 feet from the east line in Section 8, Township 17 South, Range 31 East, 19 at a depth of 3,110 to 3,162 as recorded in the Well's 20 neutron log dated December 4, 1957. 21 Mr. Gray, Section 13, -20, paragraph 15 of the unit 22 agreement established a tract and the basis for tract 23 participation, what formula was utilized? 24 The formula utilized is primarily oil recovery, in fact, 25

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		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	Λ	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	Ω	Under Section 22, -1A, when will your unit agreement
		11		become effective?
TIONS	£00	12	A	The agreement will become effective when the working
TESTIMONY, DAILY COPY, CONVENTIONS	100 97	13		interest owners, with combined unit participation, have
Y COPY.	QUE, NEW MEXICO 97103 Exico 87108	14	·	at least eighty-five percent ratification and the
HY, DAII		15		combined unit has sixty-five percent of the royalty
TESTIMO	QUERO EW ME)	16		interests in the unit area.
EXPERT	• A C B C	17	Q.	And also approval of the supervisor of the U.S.G.S. and
TEMENTS, EXPERT	243-6691+ALE	18		the Land Commissioner of the State of New Mexico?
STA	10 × 0 × 0 × 0 × 0 × 0 × 0 × 0 × 0 × 0 ×	19	A	Yes.
SPECIALIZING IN: DEPOSITIONS, HEARINGS,	1092 . P	20	Q	Has the State given its tentative approval to the form
SITIONS,	P.O. BOX 10	21		of the agreement and the proposed area?
i DEPO		22	A	Yes.
IZING I	45	23	Q	On what date?
SPECIAL	209 SIMMS FIRST NAT	24	A	That was given on December 16, 1971.
		25	Q	Has the Commissioner of Public Land of the State of

it is 100 percent primary recovery.

	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
	3		
	6		equitable?
	7	Α	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.
	12	A	Exhibit 3 is a table showing the various well data for
	13		each of the wells located within the proposed unit
671	14		area.
	15		This also shows the studies of the area and
	16		also shows the status of the primary recovery for
	17		each well, as of January 1, 1971.
	18		A portion of these wells were completed with
	19		pipe set above the pay and they have open hole.
	20	Q	There are fifteen wells in the unitized area; are
	21		there not?
	22	A	That's right.
	23	Q	How many of those are plugged and abandoned, at this
	24		point?
	25	A	Six are plugged and abandoned.

New Mexico approved the form of the unit agreement?

Yes, they approved it on December 27, 1971.

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SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATERENTS, EXPERT TESTEROXY, DAILY COPY, CONVENTIONS	209 SIMMS BLDG. P.O. BOX 1092 PHONE 249-6691 ALBUQUERQUE, NEW MEXICO 87103	
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	2	A	Two.
	3	Q	And the remainder are producing?
z	4	A	Seven are producing, I believe.
	5	Q	Does your Exhibit show the accumulative production of
	6		these wells?
	7	Λ	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
1	10		explain what is shown by this Table.
1	11	A	Exhibit 4 is a Table showing recent production for
1	12		each of the producing wells. It will be noted that
1	13		the Grayburg "A" wells are producing approximately
1	14		one barrel of oil a day and the wells on the Panako
	15		State Lease are producing around three and one-half or
1	16		four barrels per day.
. 1	17	Q	So that these wells are in the late stages of
	18		completion?
1	19	A	Yes, sir.
2	20	Q	Please refer to what has been marked as Exhibit 5 and
1	21		explain what is shown on this Exhibit.
:	22	A	Exhibit 5 is a radioactive log of the Penasco-Grayburg
	23		Number 1 Well. This is located in Section 8 and the
:	24		perforations are indicated on the log and further identifi
	25		by the yellow coloring. It shows the portion of the

How many are shut-in?

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259 SIMMS BLDG. # P.O. BOX 1092 # PHONE 245-6691 # ALBUQUERQUE. NEW MEXICO 87103 First national bank bldg. Rast # Albuquerque, new Mexico 87108

Queen Sand that is considered to be oil pay.

- Q Referring to Exhibit 5-A, explain what is shown on Exhibit 5-A.
- Α Exhibit 5-A is a radioactive log of the Penasco State Number 1 Well and that log also is identified by the perforated interval and the pay section shown by the yellow coloring.
- Are these two logs the only electric logs available Q on any of the wells in the unit?
- Yes, they are. A
- Please refer to Exhibits 6, 6-A, 6-B and 6-C, and Q explain what is shown by these Exhibits.
- All four of these Exhibits are diagrammatic sketches A of the proposed injection wells.

Exhibit 6 shows the Penasco-Magnolian State Number 1 Well in this case, five and one-half inch casing is set to the bottom of the pay zone and it is perforated from 3,180 to 3,212.

In the case of Exhibit 6-A, it is a diagrammatic sketch of the Penasco Number 2 Well in this Case. Seven inch casing was set above the pay. All these Exhibits also show the surface casing and the estimated top cement line.

Exhibit 6-B shows the Penasco-Grayburg Number 1 Well in this Case. The casing has been set through the pay.

Exhibit 6-C shows the Grayburg Number 2 Well.

This well is open hole.

- Q Mr. Gray, how does the Applicant propose to complete these wells for injection?
- These wells will be cleaned out and the Applicant wishes approval to have the option of either injecting down the casing or run tubing with a Packer, which would be set above the pay zone.

If approval is given for injecting the water down the casing, the Applicant agrees to pressure test each casing string up to 2,000 pounds per square inch before injecting through it.

- Mr. Gray, have you made a study in this particular area, to determine whether or not there is any water bearing zones, shallow water bearing zones?
- A Yes, we don't have any indication that there are any fresh water zones, commercial zones, in the shallow formations.
- Q What will be the injection rate proposed by the Applicant?
- Well, the Applicant estimates that the rate will be up to approximately 400 barrels of water per day and possibly with a maximum pressure of 1,800 pounds per square inch.

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Q	Does the	Applicant	have a	an opinion	as to	the life
	of this	flood?) to region	

A Well, I think we have a good indication by the good Atlantic Richfield flood in the Shugart area and the particular flood I am referring to is in Section 14, of Township 18 South, Range 31 East.

This is approximately two and one-half miles east of the proposed unit area.

Atlantic Richfield conducted a flood which, at the present time, is essentially plugged out, but their flood was for approximately five years duration. So, I think that is a pretty good estimate on what to expect as to our flood life.

- Mr. Gray, taking into consideration the lack of fresh water bearing zones in the area, when you pressure tested the casing and the limited life of the flood, plus, I suppose the economics of it, do you feel that injecting down the casing is a satisfactory method, under these circumstances?
- A Yes, I think it is a very reasonable approach, under these circumstances.
- Q Where will the water be obtained from to use in the flood?
- A This water will be purchased from the Double Eagle
 Water Company as fresh water.

Does the Applicant propose to reinject the produced

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	3	V	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.
NGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONS PHONE 249-6691-ALBUQUERQUE. NEW MEXICO 87103 AST-ALBUQUERQUE, NEW MEXICO 87108	12		I would say that roughly, approximately one to
FY, CONV Exico 8	13		one of secondary primary will be obtained in the flood
ALY COP	14		and I consider these two areas similar.
ROUE. I	15	Q	And that 500,000 barrels of secondary oil would not
ST TESTIMESON NEW ME	16	, m	otherwise be recovered?
IS,-EXPER 691 • ALE ERQUE.	17	A	That is correct.
Z43-669 SUQUER	18	Q	Were Exhibits 1 through 6 and all the sub-numbers,
IGS, STAT	19		except the unit agreement, prepared by you or under
S, HEARIN X 1092 •	20		your supervision?
SOTTON O. O. O. W	21	A	Yes.
IN DEP	22		MR. LOSEE: We move for the introduction of
SPECIALIZING IN: DE 209 SIMMS BLDG.• FIRST NATIONAL	23	Exhi	bits 1 through 6 with the sub-numbers.
SPECI.	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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(Whereupon, the aforementioned Exhibits were admitted in evidence.)

MR. LOSEE: Mr. Examiner, that is all I have on Direct. I would like to bring to the Commission's attention that one of the purposes of the Application was to ask for Administrative Procedure to convert additional wells for injection in the event the Applicant proposes to change its pattern, at a later date.

MR. LOSEE: Yes.

CROSS-EXAMINATION

BY MR. UTZ:

Q Mr. Gray, what will be the deciding factor in whether you inject through tubing or casing?

Well, I suppose that the Applicant probably hasn't gotten to the point where he has made a definite decision. Just about everything in regard to the waterflood will be done, in fact, there is the further possibility of maybe using water from these other areas.

There are a lot of aspects to this thing that you usually decide when you get closer to the time.

It may have something to do with what materials might be available. I really can't say what will be 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.

- You haven't noticed corrosion either internally or externally?
- A No, sir.

MR. UTZ: Any other questions?

CROSS-EXAMINATION

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?
- A I am not able to answer in the case of the Atlantic Richfield flood.

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

SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONS 200 SIMMS BLDG. & D.O. BCX 1092 PHONE 243-66916 ALBUQUERQUE. NEW MEXICO 87103 First national bank bldg. East-Albuquerque. New Mexico 87108

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That's all I have. MR. STAMETS: MR. UTZ: Any further questions? (No response.) MR. UTZ: If not, the witness may be excused. (Witness excused.) 5 MR. UTZ: Any statements in this Case? 6 (No response.) 7 MR. UTZ: The Case will be taken under advisement --8 the Cases will be taken under advisement. 9 Let the record show, and I think it already does, 10 that these Cases were consolidated, but separate Orders will 11 be written. 12 13 14 15 16 17 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

SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONS

209 SIMMS BLDG. • P.O. BOX 1092 • PHONE 243-6691 • ALBUQUERQUE, NEW MEXICO 37103 First national bank bldg. East • Albuquerque, new mexico 67108

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1	<u>I N D E X</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	EXHIBITS			
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	
14	Exhibit Number 4	9	12	
15	Exhibit Number 5	9	12	
16	Exhibit Number 5-A	10	12	
17	Exhibit Number 6	10	12	
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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OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO P. O. BOX 2088 - SANTA FE

87501

May 31, 1972

GOVERNOR BRUCE KING CHAIRMAN

LAND COMMISSIONER
ALEX J. ARMIJO
MEMBER

STATE GEOLOGIST
A. L. PORTER, JR.
SECRETARY – DIRECTOR

Mr. A. J. Losee Losee & Carson Attorneys at Law Post Office Box 239 Artesia, New Mexico 88210

Dear Mr. Losee:

Enclosed herewith is Commission Order No. R-4300, entered in Case No. 4700, approving the Penasco Shugart Queen Waterflood Project.

Injection is to be through the casing of the four authorized water injection wells, with the injection water continuously treated to prevent corrosion and coupon corrosion tests conducted as prescribed by the order. Furthermore, casing of each well shall be pressuretested to a minimum of 2000 psi for at least 30 minutes prior to conversion to water injection. If pressure shall fail to satisfactorily hold for this period of time, adequate remedial measures shall be taken and a satisfactory casing test completed prior to placing the well on injection. The Artesia district office of the Commission shall be notified of the date and hour pressure tests are to be conducted.

The above casing tests, water treatment, and continuous coupon survey may be dispensed with if injection wells are equipped with tubing and packers immediately above the pay.

As to allowable, our calculations indicate that when all of the authorized injection wells have been placed on active injection, the maximum allowable which this project will be eligible to receive under the provisions of Rule 701-E-3 is 546 barrels per day when the Southeast New Mexico normal unit allowable is 42 barrels per day or less.

Please report any error in this calculated maximum allowable immediately both to the Santa Fe office of the Commission and the appropriate district proration office.

In order that the allowable assigned to the project may be kept current, and in order that the operator may fully benefit from the allowable

Page 2

Mr. A. J. Losee Artesia, New Mexico May 31, 1972

provisions of Rule 701, it behooves him to promptly notify both of the aforementioned Commission offices by letter of any change in the status of wells in the project area, i.e., when active injection commences, when additional injection or producing wells are drilled, when additional wells are acquired through purchase or unitization, when wells have received a response to water injection, etc.

Your cooperation in keeping the Commission so informed as to the status of the project and the wells therein will be appreciated.

Very truly yours,

A. L. PORTER, Jr. Secretary-Director

Enclosure ALP/DSN/ir

cc: Oil Conservation Commission Hobbs and Artesia, New Mexico

> Mr. D. E. Gray, State Engineer Office Santa Fe, New Mexico

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

> CASE NO. 4700 Order No. R-4300

APPLICATION OF PENASCO CORPORATION FOR A WATERFLOOD PROJECT, EDDY COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on May 5, 1972, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 31st day of May, 1972, the Commission, a quorum being present, 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 Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Penasco Corporation, seeks permission to institute a waterflood project in the Penasco Shugart Queen Sand Unit Area, Shugart Pool, by the injection of water into the Queen formation through four injection wells in Sections 8, 9, 16, and 17, Township 18 South, Range 31 East, NMPM, Eddy County, New Mexico.
- (3) That the applicant further seeks an administrative procedure whereby said project could be expanded to include additional lands and injection wells in the area of the said project as may be necessary in order to complete an efficient injection pattern; that said administrative procedure should provide for administrative approval for conversion to water injection in exception to the well response requirements of Rule 701 E-5 of the Commission Rules and Regulations.
- (4) That the wells in the project area are in an advanced state of depletion and should properly be classified as "stripper" wells.
- (5) That the proposed waterflood project should result in the recovery of otherwise unrecoverable oil, thereby preventing waste.

-2-CASE NO. 4700 Order No. R-4300

(6) That the subject application should be approved and the project should be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations; provided however, that the showing of well response as required by Rule 701 E-5 shall not be necessary before obtaining administrative approval for the conversion of additional wells to water injection.

IT IS THEREFORE ORDERED:

(1) That the applicant, Penasco Corporation, is hereby authorized to institute a waterflood project in the Penasco Shugart Queen Sand Unit Area, Shugart Pool, by the injection of water into the Queen formation through the following-described four wells in Township 18 South, Range 31 East, NMPM, Eddy County, New Mexico:

Well Number	Location					
Ginsberg "A" Well No. 1	Unit O - Section 8					
Erwin Well No. 2	Unit N - Section 9					
Magnolia State Well No. 1	Unit E - Section 16					
Ginsberg Well No. 2	Unit G - Section 17					

PROVIDED HOWEVER, that the water shall be continuously treated prior to injection and coupon corrosion tests shall be conducted continuously on said well and the results thereof filed quarterly with the Commission until further notice from the Secretary-Director of the Commission.

(2) That the subject waterflood project is hereby designated the Penasco Shugart Queen Waterflood Project and shall be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations;

PROVIDED HOWEVER, that the Secretary-Director of the Commission may approve expansion of the Penasco Shugart Queen Waterflood Project to include such additional lands and injection wells in the area of said project as may be necessary to complete an efficient water injection pattern; that the showing of well response as required by Rule 701 E-5 shall not be necessary before obtaining administrative approval for the conversion of additional wells to water injection.

- (3) That monthly progress reports of the waterflood project herein authorized shall be submitted to the Commission in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.
- (4) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

-3-CASE NO. 4700 Order No. R-4300

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

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

BRUCE-KING, Chairman

ALEX J, ARMIJO, Member

A. L. PORTER, Jr., Member & Secretary

SEAL

GASE 4700:

Application of Penasco Corporation for a waterflood project, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project in the Penasco Shugart Queen Sand Unit Area, Shugart Pool, by the injection of water into the Queen formation through four wells located in Sections 8, 9, 16, and 17, Township 18 South, Range 31 East, Eddy County, New Mexico. Applicant further seeks a procedure whereby additional injection wells within the unit area may be approved administratively.

CASE 4701:

Application of Wynn Oil Company for an unorthodox location and a dual completion, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval of the dual completion of its Largo Federal Well No. 2 to produce gas from the Blanco-Mesaverde and Basin-Dakota Pools at an unorthodox location for the Blanco-Mesavede Pool 1500 feet from the South line and 1100 feet from the East line of Section 13, Township 27 North, Range 8 West, San Juan County, New Mexico.

CASE 4702:

Application of Penroc Oil Corporation for a special gas-oil ratio limitation, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an amendment of the special rules and regulations for the Hobbs-Drinkard Pool, Lea County, New Mexico, to provide for a limiting gas-oil ratio of 10,000 cubic feet of gas per barrel of oil for said pool.

CASE 4703:

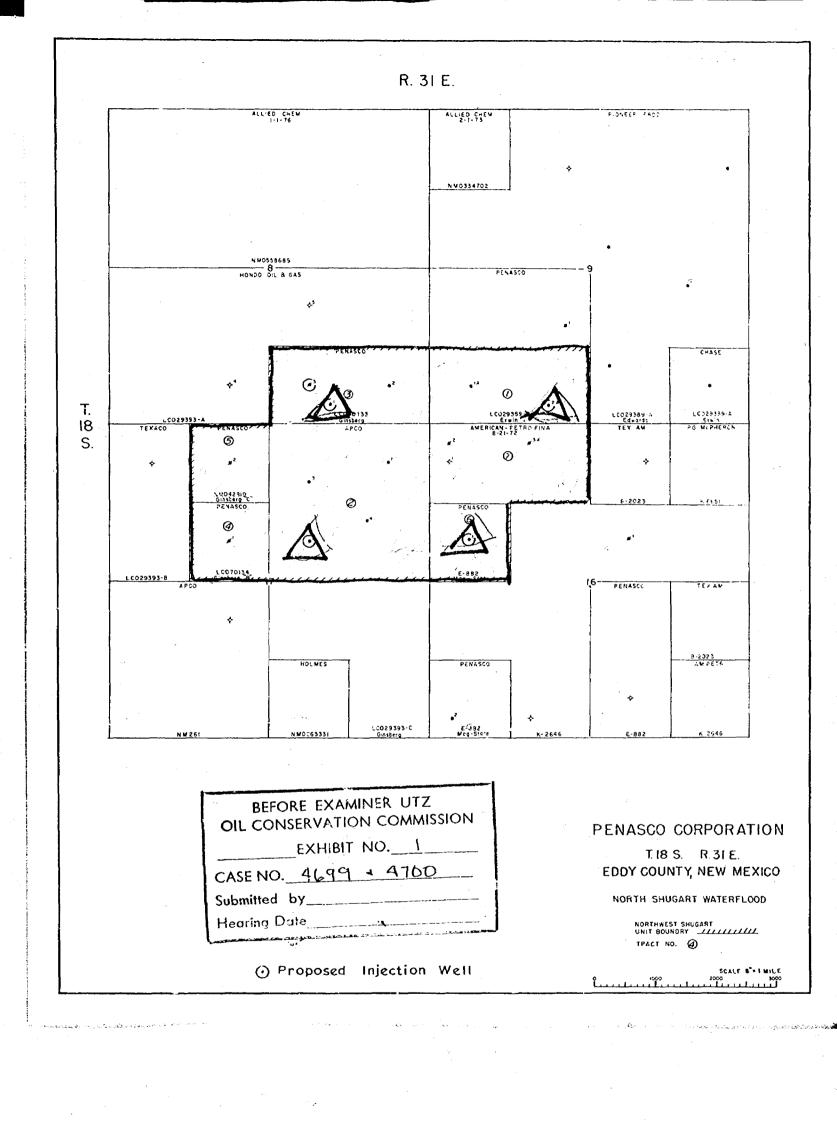
Application of Continental Oil Company for special pool rules, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks the promulgation of special pool rules for the West Lindrith Gallup-Dakota Oil Pool, Rio Arriba County, New Mexico, including provisions defining a gas well in the pool as one producing with a gas-liquid ratio of 30,000 cubic feet of gas per barrel of oil or one which produces oil with a gravity of 60° API or greater, a gas-oil ratio limitation for oil wells of 10,000 cubic feet of gas per barrel of oil, and 160-acre spacing units for both oil and gas wells.

CASE 4709:

Application of Continental Oil Company for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle production from the Eumont Gas Pool and the Penrose Skelly Oil Pool in the wellbore of its Lockhart A-17 Well No. 1 located in Unit L of Section 17, Township 21 South, Range 37 East, Lea County, New Mexico.

CASE 4710:

Application of Hanson Oil Corporation for an exception to Order No. R-3221, as amended, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Order No. R-3221, as amended, to dispose into unlined surface pits water produced by 22 wells located



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JOEL M. CARSON

LOSEE & CARSON TO LA LA

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AREA CODE 505 746-3508

28 March 1972

Care 4700

W. SER - ON COMM

Mr. A. L. Porter, Jr. Secretary-Director Oil Conservation Commission P. O. Box 2088 Santa Fe, New Mexico 87501

Dear Mr. Porter:

Enclosed please find application in triplicate of Penasco Corporation for a waterflood project in the Shugart Queen Oil Pool, Eddy County, New Mexico.

I understand that the next examiner hearing will be on May 5, 1972, and that this case will be set for hearing on that date.

Very truly yours,

LOSEE & CARSON

AJL/gmr

Enc.

cc: Penasco Corporation

w/enclosure

DOCKET MARKO

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION OF PENASCO CORPORATION FOR A WATERFLOOD PROJECT, SHUGART QUEEN POOL, EDDY COUNTY, NEW MEXICO.

Case 4700

APPLICATION

COMES PENASCO CORPORATION, by its attorneys, Losee & Carson, and states:

1. Applicant, pursuant to the terms of the Penasco Shugart Queen Sand Unit Agreement and Unit Operating Agreement, is designated as operator of the Queen Sand comprising the project area covered by this application and underlying the following lands in Eddy County, New Mexico:

Township 18 South, Range 31 East, N.M.P.M.

Section 8: S/2 SE/4 Section 9: S/2 SW/4

Section 9: S/2 SW/4 Section 16: N/2 NW/4, SW/4 NW/4

Section 17: NE/4, E/2 NW/4

containing 520 acres, more or less.

- 2. There is attached hereto and by reference made a part hereof a plat showing the location of the proposed injection wells and the location of all other wells and lessees adjoining the proposed project area.
- 3. Applicant proposes to inject water into the Queen Sand through four injection wells described as follows:

Township 18 South, Range 31 East, N.M.P.M.

Ginsberg "A" Well No. 1, Unit O, Section 8 Erwin Well No. 2, Unit N, Section 9 Magnolia State Well No. 1, Unit E, Section 16 Ginsberg Well No. 2, Unit G, Section #/7

- 4. That all of the wells in the project area are in advanced state of depletion and should be classified as "stripper" wells.
- 5. There is attached hereto and by reference made a part hereof a diagramatic sketch of each proposed completed injection well.
- 6. There is attached hereto and by reference made a part hereof copies of a portion of the only available logs on the proposed injection wells, namely the Magnolia State Well No. 1 and the Ginsberg Well No. 1.
- 7. Applicant proposes to conduct this waterflood project under the allowable provisions of Rule 701 of the Commission.
- 8. Applicant may need to place additional wells in the project area on injection and a procedure should be authorized for administrative approval of any such wells.
- 9. The proposed waterflood project will prevent waste in that it will result in the recovery of oil that would not otherwise be recovered in the project area and correlative rights will be protected.

WHEREFORE, Applicant prays:

- A. That this matter be set for hearing before an examiner duly appointed by the Commission and that due public notice be given as required by law.
- B. That an order be entered authorizing the institution of the aforesaid waterflood project in the Shugart Queen Pool, establishing a procedure for administrative approval for the conversion to injection of additional wells within the

project area.

C. For such other relief as may be just in the premises.

DATED this 28 day of March, 1972.

PENASCO CORPORATION

Losee & Carson P. O. Drawer 239 Artesia, New Mexico 88210

PENASCO
Ginsberg "A" No. 1
330 FSL & 1650 FEL Section 8-185-31E
G.L. Elev. 3675

Estimated top of cement 303'

8 5/8" @ 756' with 50 sacks

Estimated top of cement-2727'

Perforated 3139-49

Cast iron plug to be set at 3300'

Perforated 3353-73.

5½" 14# casing 3406 with 100 sacks

. Case 4700

PENASCO ERWIN No. 2 330 FSL & 1980' FWL Section 9-185-31E G.L. elev. 3684

Case 4700

Estimated top of cement-3701 8 5/8" casing @ 818 with 50 sacks Estimated top of cement-1350' 7" casing @ 2960 with 105 sacks Shot 3192-3227 with 100 quarts oil pay zone 3200-3214 T.D. 3230

PENASCO
Magnolia State No. 1
660 FWL & 1980 FNL Section 16-185-31E
G.L. Elev. 3671

8-17-56 pumped 200 sacks between 8 5/8" and 5½" casing from the surface

8 5/8" 24# casing @ 128' cement circulated

Estimated top of cement-2751'

Perforated 3180-3212

6-26-56
5½" 14# casing @ 3251' with 70 sacks

Case 4700

APCO Ginsberg No. 2 1980' FNL & 1980 FEL Section 2-185-31E

Estimated top of cement-311 8 5/8" 24# casing @ 759 with 50 sacks Estimated top of cement-1482 7" 20# casing @ 3012 with 100 sacks Shot with 130 quarts 3178-3206 oil pay zone 3168-3215 T.D. 3225,

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GMH/dr

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

SM

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

CASE No. 4700

Order No. R-4300

APPLICATION OF PENASCO CORPORATION FOR A WATERFLOOD PROJECT, EDDY COUNTY NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on May 5, 1973, at Santa Fe, New Mexico, before Examiner Elvis A. Utz

NOW, on this day of May 19⁷², the Commission, a quorum being present, 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 Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Penasco Corporation, seeks permission to institute a waterflood project in the Penasco Shugart Queen Sand Unit Area, Shugart Pool, by the injection of water into the Queen formation through four injection wells in Sections 8, 9, 16, and 17, Township 18 South, Range 31 East, NMPM, Eddy County, New Mexico.

- (3) That the applicant further seeks an administrative procedure whereby said project could be expanded to include additional lands and injection wells in the area of the said project as may be necessary in order to complete an efficient injection pattern; that said administrative procedure should provide for administrative approval for conversion to water injection in exception to the well response requirements of Rule 701 E-5 of the Commission Rules and Regulations.
- (4) That the wells in the project area are in an advanced state of depletion and should properly be classified as "stripper" wells.
- (5) That the proposed waterflood project should result in the recovery of otherwise unrecoverable oil, thereby preventing waste.
- (6) That the subject application should be approved and the project should be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations; provided however, that the showing of well response as required by Rule 701 E-5 shall not be necessary before obtaining administrative approval for the conversion of additional wells to water injection.

IT IS THEREFORE ORDERED:

(1) That the applicant, Penasco Corporation, is hereby authorized to institute a waterflood project in the Penasco Shugart Queen Sand Unit Area, Shugart Pool, by the injection of water into the Queen formation through the following-described four wells in Eddy County, New Mexico:

thinkery "A" WELL NO. ?

Envir WELL NO. 2

Magnolia State WELL NO. 2

Whit E - Section 16

Whinkery Well No. 2

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-3-CASE NO. 4700 Order No. R-

(2) That the subject waterflood project is hereby designated the Language ducar Materflood Project and shall be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations;

PROVIDED HOWEVER, that the Secretary-Director of the Commission may approve expansion of the Secretary-Director of the Commission may approve expansion of the Secretary-Director of the Commission may approve expansion of the Secretary-Director of the Commission may approve expansion of the Secretary-Director of the Commission may approve expansion of the Secretary-Director of the Commission may approve expansion of the Secretary-Director of the Commission may approve expansion of the Secretary-Director of the Commission may approve expansion of the Secretary-Director of the Commission may approve expansion of the Secretary-Director of the Commission may approve expansion of the Secretary-Director of the Commission may approve expansion of the Secretary-Director of the Commission may approve expansion of the Secretary-Director of the Commission may approve expansion of the Secretary-Director of the Commission may approve expansion of the Secretary-Director of the Commission may approve expansion of the Secretary-Director of the Commission may approve expansion of the Secretary-Director of the Commission may approve expansion of the Secretary-Director of the Commission may approve expansion of the Secretary-Director of the Commission may approve expansion of the Secretary-Director of the Commission may approve expansion of the Secretary-Director of the Commission may approve expansion of the Secretary-Director of the Commission may approve expansion of the Secretary-Director of the Commission may approve expansion may approve expansion of the Commission may approve expansion may ap

- (3) That monthly progress reports of the waterflood project herein authorized shall be submitted to the Commission in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.
- (4) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

PENASCO
Ginsberg "A" No. 1
330 FSL & 1650 FEL Section 8-185-31E
G.L. Elev. 3675

Estimated top of cement 30g'

8 5/8" © 756' with 50 sacks

Estimated top of cement-2727'

Perforated 3139-49

Coll Conservation Commission
EXHIBIT NO. GB

CASE NO. \$700

Submitted by
Hearing Date

5½" 14# casing 3406 with 100 sacks

PENASCO ERWIN No. 2 330 FSL & 1980' FWL Section 9-185-31E G.L. elev. 3684

Estimated top of cement-3701 8 5/80 casing @ 818 with 50 sacks Estimated top of cement-1350' BEFORE EXAMINER UTZ OIL CONSERVATION COMMISSION EXHIBIT NO. 6 /1 4700 CASE NO. Submitted by__ Hearing Date 7" casing @ 2960 with 105 sacks Shot 3192-3227 with 100 quarts oil pay zone 3200-3214 T.D. 3230

PENASCO
Magnolia State No. 1
660 FWL & 1980 FNL Section 16-185-31E
G.L. Elev. 3671

8-17-56 pumped 200 sacks between 8 5/8" and 5½" casing from the surface

8 5/8" 24# casing @ 128" cement circulated

8 5/8" 24# casing @ 128" cement circulated

Estimated top of cement-2751"

OIL CONSERVATION COMMISSION

EXHIBIT NO. C

CASE NO. 4700

Submitted by

Hearing Date

6-26-56

5½" 14# casing @ 3251" with 70 sacks

	LONE PARELLS Radioactivity Log
	COMPANY: As D. COLLEGE Well Location
	PENASCO
	LOCATION: 301 FS. R-31-5
	E TOUNTY: STATE: WEST
	TAME OF THE TOTAL PART IN STATE OF THE TAME OF THE TAM
	RUN NO. CISARY CIRCUIT CONTROL 12-1-57
<u>.</u>	THEOTIVE DEPTH IDENTIFY STRUCK STRUCK
	TYPE OF FLUID IN HOLE 3376 3376
	SOURCE STAINGTH & TYPE SOURCE SPACING—IN SOURCE SPACENGE SOURCE SPACENGE SOURCE SOU
	Not 1884
	LENGTH OF MEAS. OFVICE—IN. O D. OF INSTRUMENT—IN. THAT CONSTRUM — SCONDS. LOGGING SHEE FT. MIN. STATISTICAL VARIATION—IN. PSPONDED. REPORDED. REPORDED.
	SENSITIVITY REFERENCE 27L JLO DASS RECORDE BY STROM & CONCOTTO WITHESED BY COLLER COLLER
	WELL RECORD RUN HITSIZE CASING WITH FROM WELL RECORD FROM LOG
	OVE 6 5/8 SIMPAGE TO 755 SIMPAGE TO 169 OVE 1 TO 100 OVE
	10 10 10
	- ORU 40RU - 3900EU - 9800EU
BEFORE EXAMINER UTZ	
OIL CONSERVATION COMMISSION	
EXHIBIT NO. 5	
CASE NO. 4700	
Submitted by	
Hearing Date	
and the second s	

		M McCULLOUGH M
		RADIATION LOG
•		CHANGE OF THE PENASCO CONTROL OF THE PENASCO
],	PLETE G.L. 3663° INTO ENGINEERS ENGI
		LOCATION.
	- }	11.3
	· (Sig Mees, From \$500-87 \$500-8 Dev C Sig C C Sig
		Form Community of [P.S' AVIE O. La) tree.
	ļ.	Per. To. No. 2190. To. No. 201. To. Oper TECHT tog ficted No. 4.420020 Date
	1	Taret Capit (Orthon 3261) (Horme Capit (McCullaget 3261) Type of Field in Hole PIO (Field Capit)
	ŀ	O.D. of Incomment 3.5"
		Second by XALST Witnessed by YS HALL
		Type of Log GAMMA RAY GAMMA BAY NEUTON NEUTON RAN NO. ONT-5" CNY-5"
•		Top of Loggad Invariat 1800s 120mi
		Battom of Lagged Inversal 32/0/1 32/5/5
		Time Combant 3.255-140-340CFS, (0-3) 3.4135-500CFS, (r-3)
		Logging Speed Pt./Min. 28 28
4	1	Startifical Yaristica Sanuthirty-Micro-Torrigana
		Par Hts. Par leth 2.72
		CASHO RECORD (Contenent) OPEN (BORE) HOLE RECORD
		Ron No. Stro-In. WI,—Ib. Interval Bit Stro Interval
	1	7 1/8 175' 10 3761'.
BEFORE EXAMINER UTZ		REMARKS OR OTHER DATA
DELOKE EXAMINARY O.17	_ 1 .	***************************************
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OIL CONSERVATION COMMISSI	ON	
EXHIBIT NO. 51	ON	3100
EXHIBIT NO. 5 A CASE NO. 4700	ON	3100
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EXHIBIT NO. 5 A CASE NO. 4700	ON	3100
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APCO Ginsberg No. 2 1980' FNL & 1980 FEL Section 17-185-31E

Estimated top of cement-311 8 5/8" 24# casing @ 759 with 50 sacks Estimated top of cement-1482 BEFORE EXAMINER UTZ OIL CONSERVATION COMMISSION EXHIBIT NO. 60 4700 CASE NO. Submitted by___ Hearing Date_ 7" 20# casing @ 3012 with 100 sacks Shot with 130 quarts 3178-3206 oil pay zone 3168-3215 T.D. 3225,

PRODUCTION TABLE

	PRODUCTION	WATER	GAS	AVERAGE BOPD
APCO	•			
Ginsberg "A" #1-A-17-18-31 #2-G #3-B #4-H	31 21 23 22	29 28 26 30		1 1 1 1
	97	112 .	19	
PENASCO CORPORATION				·
Erwin #1-M-9-18-31 #2-N	9 10			
	19	Ş	:	
Magnolia St. #1-E-16-18-31 #2-M	109	· Section (67 68	4 _4
	218		135	8

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BEFORE EXAMINER UTZ OIL CONSERVATION COMMISSION	
EXHIBIT NO4	
CASE NO. 4700	
Submitted by	
Hearing Date	
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BEFORE EXAMINER UTZ*	•			•	•						
CASE NO ATON			PENASCO	0 - SHUGART UNIT	IT AREA	•		1 .			
by_ ate_	ELEVAT I ON	DATE COMPLETED	INITIAL	PAY ZONE	OIL STRING	TOTAL DEPTH	SHOT	PRESENT STATUS	PRIMARY RECOVERY	1970 PRODUCTION	
***ERICAN PETROFINA State K-2646 (N/2 NW/4 Sec. 16) No. 1 660 FNL & 330 FWL No. 2 330 FNL & 330 FWL No. 3 330 FNL & 1650 FWL	3672 3675	11-7-39 3-4-42 4-15-42	Dry 36	None 3176-96 3204-30	None 6" @ 2665! 6" @ 2470!	3635 3198 3230	100 qts.	P & A 11-7-39 P & A 9-15-46 P & A 9-15-46	0 4,620 3,551	000	
APCO Ginsberg "A" LC 029393(c) (NE/4 Sec. 17) NO. 1 660 FNL & 660 FEL NO. 2 1980 FNL & 1980 FEL NO. 3 990 FNL & 1980 FEL NO. 4 1650 FNL & 990 FEL	· · · · · · · · · · · · · · · · · · ·	10-21-39 7-17-40 9-1-40 10-25-40	157 112 160 125	3154-87 3145- 3165-90	7" @ 3025' 7" @ 3012' 7" @ 3016' 7" @ 3047'	3187 3183 3183 3198		Producing Producing Producing Producing	74,937 33,119 50,449 44,952	663 163 329 330	1.00
029389(c) (S/2 SW/4 Sec. 9) 1 660 FSL & 660 FWL 2 330 FSL & 1980 FWL	3 688 3684	6-12-39 11-28-39	150 210	3175-92 3192-3227	7" @ 3005" 7" @ 3047"	3210 3230	160 qts.	Producing Producing	80,692 78,952	154 236	
. 1 330 FSL & 1650 FEL . 2 660 FSL & 660 FEL . 3 660 FSL & 1980 FEL	3673 3673 3676	1-31-58 7-23-38 9-10-40	17 60 200	3112-54 3147-83 3102-55	5½" @ 3406' 7" @ 3073' 7" @ 3000'	3406 3185 3160	Frac 10,000 140 qts.	Shut in Shut in P & A 3-20-4?	4,849 57,487 29,373	000	
Ginsberg "B" LC 070134 (SE/4 NW/4 Sec. 1/) No. 1		1-22-41	15	3135-70	7" @ 3020"	3176	200 qts.		14,438	0	
No. 2 660 FNL & 1980 FWL agnolia State E-882 (SW/4 NW/4 Sec. 16	3662 3671	10-8-41 5-23-56	150	3150-60 3198-3212	7" @ 2994! 5½" @ 3251!	3169 3474	240 qts. Frac 10,000	P & A 3-20-47 Producing	9,882	182	
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