CASE NO.

7058

APPlication,
Transcripts,
Small Exhibits,

ETC.

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

November 26, 1980

Mr. William F. Carr	Re: CASE NO. 7058 ORDER NO. R-6525
ampbell and Black ttorneys at Law ast Office Box 2208	Applicant:
Santa Fe, New Mexico	Tahoe Oil & Cattle Company
Dear Sir:	
Enclosed herewith are two continuous order recently ent	opies of the above-referenced ered in the subject case.
Pours very truly, JOE D. RAMEY Director	
JDR/fd	
Copy of order also sent to:	:
Hobbs OCD X Artesia OCD X Aztec OCD	
Other	

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. 7058 Order No. R-6525

APPLICATION OF TAHOE OIL & CATTLE COMPANY FOR DOWNHOLE COMMINGLING, LEA COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on October 29, 1980, at Santa Fe. New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 25th day of November, 1980, 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, Tahoe Oil & Cattle Company, is the owner and operator of the Harrison Wells Nos. 1 and 2, located in Units A and H, respectively, and its Judy Well No. 1, located in Unit C, all in Section 7, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico.
- (3) That the applicant seeks authority to commingle Jalmat and Langlie Mattix production within the wellbores of the above-described wells.
- (4) That the vertical limits of the Jalmat Pool as defined by Order No. R-520, dated August 12, 1954, include the Tansill and Yates formations and all but the lowermost 100 feet of the Seven Rivers formation.
- (5) That the vertical limits of the Langlie-Mattix Pool, as defined by said Order No. R-520, include the lowermost 100 feet of the Seven Rivers formation and all of the Queen formation.

-2-Case No. 7058 Order No. R-6525

- (6) That there has been some disparity among some geologists as to the actual base of the Seven Rivers formation and the top of the Queen formation and hence as to the location of the 100-foot marker separating the Jalmat and Langlie Mattix Pools.
- (7) That as a result of this disperity, the subject wells and certain other wells in the general area which are classified as Langlie-Mattix wells have perforations extending across the aforesaid 100-foot marker in the Seven Rivers formation.
- (8) That such crossing over from one pool into the other in this case appears to be an unintentional error.
- (9) That to rectify the aforesaid error would require workover operations on the subject wells which would be expensive and might endanger the productivity of the subject wells, and would actually serve no beneficial purpose, inasmuch as the production and reservoir characteristics of the perforations immediately above and below the 100-foot marker are quite similar.
- (10) That a reasonable solution to the problem in this case is to authorize the commingling of the production from the Lower Jalmat perforations and the Langlie-Mattix production in the wellbores of the subject wells.
- (11) That such commingling will prevent waste and should not impair correlative rights and should be approved.
- (12) That to allocate the commingled production to each of the commingled zones in the subject wells would be impracticable in this case and therefore all production should be attributed to the Langlie-Mattix Pool.

IT IS THEREFORE ORDERED:

- (1) That the applicant, Tahoe Oil & Cattle Company, is hereby authorized to commingle Lower Jalmat and Langlie-Mattix production within the wellbores of the Harrison Wells Nos. I and 2 located in Units A and H, respectively, and its Judy Well No. 1, located in Unit C, all in Section 7, Township 25 South, Range 37 East, NHPM, Lea County, New Mexico.
- (2) That all of the commingled production from the subject wells shall be attributed to the Langlie-Mattix Pool.
- (3) That the effective date of the aforesaid commingling authorization for each of the subject wells shall be the date

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the Harrison Well No. 1 was perforated between 3257 feet and 3390 feet, the date the Harrison Well No. 2 was perforated between 3127 feet and 3377 feet, and the date the Judy Well No. 1 was perforated between 3214 feet and 3335 feet, respectively.

(4) 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.

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STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

JOE D. RAMEY/ Director

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ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION		
		LAND OFFICE BLDG. FE, NEW MEXICO
		October 1980
		MINER HEARING
IN	THE MATTER OF:)))
).
BE	FORE: Daniel S. Nutter TRANSCR	IPT OF HEARING
	АРРЕ	CARANCES
Fo	r the Oil Conservation Division:	W. Perry Pearce, Esq. Legal Counsel to the Division
		State Land Office Bldg. Santa Fe, New Mexico 87501
_		William D. Com. Dec
Fc	or the Applicant:	William F. Carr, Esq. CAMPBELL & BLACK P. A.
		Jefferson Place Santa Fe, New Mexico 87501

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5 6 7 8 9	Cross Examination by Mr. Nutter		17
16	EXHIBITS pplicant Exhibit One, Sketch, et cetera applicant Exhibit Two, Sketch, et cetera applicant Exhibit Three, Sketch, et cetera		5 10 12
21 22 23 24 25 26 27 28			

1 MR. NUTTER: The hearing will come to 2 3 order, please. We'll call now Case Number 7058. MR. PEARCE: Application of Tahoe Oil and Cattle Company for downhole commingling, Lea County, New 6 Mexico. MR. CARR: May it please the Examiner, 8 I'm William F. Carr, Campbell and Black, P. A., Santa Fe, 9 appearing on behalf of the applicant. I have one witness. 10 11 MR. NUTTER: Will the witness stand and 12 be sworn, please? 13 14 (Witness sworn.) 15 16 KENNETH FREEMAN 17 being called as a witness and having been duly sworn upon his 18 oath, testified as follows, to-wit: 19 20 21 DIRECT EXAMINATION 22 BY MR. CARR: 23 Will you state your name and place of 24 residence? 25 Kenneth A. Freeman. I reside in Midland 26 Texas. 27 Mr. Freeman, by whom are you employed 28

and in what capacity?

ì	4					
2	A. I own Tahoe Oil and Cattle Company and					
3	I'm a petroleum engineer.					
4	Mave you previously testified before					
5	this Commission?					
6	A. Yes, I have.					
7 8	Q. Are you familiar with the application					
9	in this case and the subject area?					
10	A. Yes, I am.					
11	MR. CARR: Are the witness' qualifications					
12	acceptable?					
13	MR. NUTTER: Yes, they are.					
14	Q. Will you briefly state what Tahoe seeks					
15	with this application?					
16	A. We have three wells in the Langlie					
17						
18	Mattix zone and we are wanting to downhole commingle these					
19	three wells, and this was brought about by the work that was					
20	done by the Commission in May and July of this summer.					
21	These wells we purchased in 1975. They					
22	were drilled by John Hill in Dallas, and we had purchased the					
23	wells, and this is what brought it all about.					
24	Q. Have you prepared certain exhibits for					
25	introduction in this case?					
26	A Yes, I have.					
27						
28	Q. Will you refer to what has been marked					

1 2 for identification as Tahoe Exhibit Number One and I would 3 first direct your attention to the first page of this exhibit and ask you to explain to Mr. Nutter what this is? This is in reference to the Harrison No. 1 Well and it is a plat of the general area. It's out-7 lined in yellow, Section No. 7, 25, 37, Lea County, New Mexico. 8 9 And it shows where these three wells are located. 10 And the Harrison Well is located where? 11 The Harrison No. 1. 12 If we would turn to page two, it has 13 the location. It's in Unit A of Section 7, Township 25 South, 14 Range 37 East. 15 Does the first page of this exhibit 16 show the location of the Langlie Jal flood? 17 18 Yes, it does. 19 And where does that lie with respect to 20 the subject wells? 21 It has a common east boundary. 22 It generally lies to the south? 23 Well, it's to the north and to the east, 24 the Union Texas Langlie Mattix Unit. 25 And was an exception granted for the --26 to the vertical limits in the Langlie Mattix for this unit? 27 A. Yes, it was.

depth.

Q Now do the perforations in this well overlap the uppermost limit of the Langlie Mattix Pool?

A Yes, they do.

MR. NUTTER: Mr. Freeman, the schematic diagram may need corrected.

Exhibit Two indicates the perforations are from 3257 to 3513; Exhibit Three, from 3257 to 3515.

And the Runyon report mentions 3257 to 13. Which would be correct?

A. I prepared this schematic from the well file that we obtained from Mr. Hill and the 3257 to 3515 is correct, to my -- to this -- as far as I know. This is what is in our well file.

MR. NUTTER: Well, then Exhibit Two would be the one, it says 3513.

A. Correct. The perforations are 3257 -just a moment here. The perforations are 3257 to 3513.

MR. NUTTER: Okay, then we'll correct

Exhibit Three, then.

A. There are twelve holes.

MR. CARR: So then page three of this exhibit should be corrected.

MR. NUTTER: To 13.

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 MR. CARR: Yes.

MR. NUTTER: Okay, go ahead.

Q Is the ownership in the Jalmat and the Langlic Mattix common in the Harrison No. 1 Well?

A. Yes, it is.

Q. Would you now refer to the next page of this exhibit and review the information contained thereon?

A. This exhibit, I have prepared the production data, and the cum production on the No. 1 Well to 12-31-79 is 40,367 barrels of oil. And then I've broken it down, January through August, by monthly volumes of oil, gas, and water.

Q. And this well is producing quite a bit of water?

A. Yes, it is.

Q. Will you now refer to the next page of this exhibit and review this for Mr. Nutter?

A This page was prepared by Union Texas

Petroleum. It's July, 1980. It shows the production of the

Langlie Jal Unit, and outlined in red is the Harrison lease,

which comprises Well No. 1 that we're now discussing, and I

have shown that it is making 20 barrels of oil and 60 barrels

of water, and you can compare this to the various other wells

in the Langlie Jal Unit and see that it -- productionwise it's

basically the same, and that's all there is to show.

All right, will you now refer to the Q. next page of this exhibit, which is the Commission form C-116?

These arc well tests that I had submitted to the Commission and it's dated March 4th, 1980. It shows the Harrison 1 as producing 40 barrels of water and 32 barrels of oil and 16 Mcf of gas on the test that was taken February 25th.

Will you now refer to the last page of this exhibit and explain to Mr. Nutter why it is included?

This is in essence a backup of the Union Texas report showing the production and the amount of water cut, and the waterflood is at this point 84 percent water cut of total fluid, and our well is in the 77 percent range. And we feel like if we can't downhole commingle, that we're going to lose a lot of oil.

Would it be possible to segregate production between the Langlie Mattix and the Jalmat Pools? In my opinion it would be extremely difficult.

Are the reservoir characteristics such that underground waste would not result from this downhole commingling application?

Will you restate that?

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Q Are the reservoir characteristics such that underground waste will not result from downhole commingling?

A. There would not be any waste by commingling.

In your opinion will approval of this application result in the recovery of hydrocarbons from the Harrison No. 1 that would otherwise not be recovered?

A. Yes, sir.

Q. Now would you refer to Exhibit Number

Two and review this exhibit for Mr. Nutter?

We might note that Exhibit Number Two is similar to Exhibit Number One but it is for the Harrison No. 2 Well.

A. Well, Exhibit Number Two is the offsetting 40-acre tract to the Harrison No. 1. The front page is the plat of the area that we have just discussed.

Page number two here is the completion history on the Well No. 2. It is located in Unit H. Section 7, 25, 37, Lea County, New Mexico. It shows the casing and cement data and the perforations are 3127 to 3504, 14 holes overall. And then what it was acidized and treated with.

Page three is a sketch of the wellbore showing casing, perforations, the tubing, and the bottom hole pump is set.

Q. Again these perforations overlap the top of the Langlie Mattix?

A. Yes, they do.

The next page is the production data, the cum production as of 12-31-1979 was 30,540 barrels of oil, and the breakdown is from January through August, 1980, of both oil, gas, and water.

Q. Will you now refer to the next page of this exhibit?

A. This is the same copy of the Union Texas

Langlie Jal Unit, showing where it is in relationship to the

No. 2 Well. The No. 2 Well has a common easterly boundary

to the Union Texas Unit.

And the next page is the test data that was taken February 26th, 1980, and we tested the well at 17 barrels of oil, 32 barrels of water, and 13 Mcf of gas.

And the last page is just another copy of the Union Texas production data on the Langlie Jal water-flood.

Q. And now with the Harrison No. 2, would it be possible to segregate the production between the zones in this well?

A. No, it wouldn't.

Q And in your opinion would approval of

this application result in the recovery of hydrocarbons from the Harrison No. 2 that wouldn't otherwise be recovered?

Yes, it would.

Will you now refer to your Exhibit Number Three and review this for Mr. Nutter?

Page one shows the area where the Judy No. 1 is located. It's also in Section 7.

If we go to page two, it is located in Unit C of Section 7, was completed in 1974, and the producing perforations are at 2814 to 2895.

Now --

Now will you refer --

There are also additional perforations, A. I'd like to point out, at 3214 to 3469, if you'll look on page three.

And that's the diagrammatic sketch of the well?

Yes, it is.

Will you explain to Mr. Nutter what the status of this well is?

A. We had asked for approval to complete it in the Jalmat and we set a retrievable bridge plug and perforated 2814 to 2895, and we treated the well and were attempting to pull out the retrievable bridge plug, and the

tubing parted, and it was decided by the working interest owners to leave it as such. So the bridge plug is stuck at 2950, and this leaves the perforations from 2814 to 2895 open, which is primarily in the Yates zone.

Now what about the perforations indicated from 3214 to 3469? Are they contributing any gas?

A. In my opinion they are not. We feel like they are plugged off with the retrievable bridge plug and the sand that's on top of it.

Q Will you now refer to the next page of this exhibit, the production data?

A. It will be noted that the production of oil was 14,655 barrels of oil as of January 1, 1980, and during 1980 we have made no oil from the -- this well, and it produces only gas and water, and it is currently averaging 41 Mcf a day, and it is being classified as a stripper gas well.

Will you now refer to the plat, which is the next page in Exhibit Three?

A. Well, this is another copy of the Langlie
Jal Unit, showing the Judy 1 has a common north boundary with
the Union Texas Unit, the Langlie Jal Unit.

Q Will you now review the data contained on Form C-116, which is attached?

A. This shows that the test was taken Feb-

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ruary 27th, 1980. The well made no oil, 97 barrels of water, and 70 Mcf of gas.

Q And now the final page?

A. This is just another page of the summation of Union Texas' waterflood, showing production, number of active wells, et cetera.

Now, Mr. Freeman, I would direct your attentio to the report that was prepared by Mr. Runyon concerning the pool boundaries and the wells which appear to be completed out of zone, and ask you in regard to the Judy No. 1, what figure do they recite for the pool boundary in that well?

A It is referred to as 3335 feet.

Now in the Judy No. 1 as now completed, are all the perforations in the Jalmat zone?

A. Yes, they are.

MR. CARR: Mr. Nutter, at this time we would request that this portion of the case -- we'd like to break this out of the case and ask that it be advertised as an exception to the vertical limits of the Langlie Mattix Pool. We think that the testimony that we've submitted would justify an order for an exception, due to the completion, or the manner in which this well is completed, all the perforations are in one zone, and it would be inappropriate to go

forward and attempt to downhole commingle this production.

MR. NUTTER: Well, you're assuming it's established that there's no communication --

MR. CARR: That's correct.

MR. NUTTER: -- between the uppermost perforations and the lowermost perforations.

MR. CARR: That's correct.

MR. NUTTER: I'm not sure there isn't.

MR. CARR: Okay. Well, if the testimony appears to show that all of the production comes from
one zone, we would request that we be permitted to separate
the Judy No. 1 from the rest of the -- from the other two
wells.

MR. NUTTER: If it's established that there's no communication all of the perforations are in the Jalmat. There's no commingling --

MR. CARR: That's right.

MR. NUTTER: There's no exception.

It's just an unusual method of separating the pools.

MR. CARR: All right, well, we'll defer

then --

MR. NUTTER: And if it's established that this is the case, then that portion of this case can be dismissed and the well is home free.

MR. CARR: Okay.

Mr. Freeman, is there any -- in your opinion will approval of the application for the Harrison 1, 2, and 3, result in the recovery of hydrocarbons that would not otherwise be recovered?

- A. It would be the Harrison 1 --
- Q 1 and 2 and the Judy No. 1?

A. Yes, it would. I would like to point out at this time, the Judy No. 1 is not making any oil.

Q Do you have anything further you'd like to add to your testimony here?

wells are the same as the Union Texas Wells that are in the Langlie Jal Waterflood Unit. At one time I worked for Union Texas Petroleum and was unitization engineer and did a great deal of work on the Langlie Jal Unit, and I'm very familiar with it, and I think if we compare the logs, which I have done, and so forth, these are all very comparable wells and they have a common boundary.

Q. Will granting this application be in the interest of conservation, the prevention of waste, and the protection of correlative rights?

- A. Yes, it would.
- Q Were Exhibits One through Three prepared

from 2814 to 2895 were opened up, the bridge plug and fish was -- that all occurred at the same time during the workover procedure. And there is a great number of working interest owners in this and there was a problem of getting them together as to whether we were going to clean this out and commingle it, and asked to do this, and we wanted to test what just the Yates would do, and they decided they wanted to leave it just as the upper zone, from 2814 to 2895.

Q. Uh-huh.

A And so --

Q. So from 1974 until 1977 it produced from the lowermost perforations?

A. Yes, sir.

Q. Then the attempt was made to open the uppermost perforations and at that time, after perforating, you tried to pull the bridge plug and had the trouble.

A. Yes, sir. What we did, the bridge plug was set, the well was fracd, and went down to wash the sand off of it, got it cleaned out and released the bridge plug and it stuck. There was additional sand that fell in on top of it, and the tubing was pulled in two.

Okay, now is that tubing in the bridge plug open at the bottom or did the bridge plug seal off the bottom of the tubing?

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2 require running washover pipe to circulate the sand off, and 3 the working interest owners did not want to spend the money at that time. Now would this be sand from the uppermost 6 perforations, or this would be frac sand that was used to --7 to frac the uppermost perforations when you made that comple-8 9 tion? 10 A. Yes, it's sand from the uppermost per-11 forations. 12 Okay. Now did the producing character-13 istics of the well prior to the time it was dead -- now we 14 realize that it was dead at the time you worked it over. What 15 were the producing characteristics of it prior to the time 16 you worked it over? Before it went dead, I mean? Was it an 17 18 oil well? 19 A. Yes, it was. It made about 2 to 3 bar-20 rels of oil a day and about 90 barrels of water. And this 21 was uneconomical. 22 And how about gas production? Q. 23 A. It had about -- I'm going to estimate 24 the gas on it. It had about 20 Mcf a day from the lower zone. 25 And then the thing went completely dead? Q. 26 27 Yes. 28 Then when you established production from

channeling, and I think this is why Well No. 70 and 68 has been abandoned. But you can look just to the north of 69, Well 54, is 2 barrels of oil and 40 barrels of water, and this was very similar to what the Judy 1 was doing prior to the decision being made to come up the hole and complete it in these upper perforations.

Now do you have any idea on the Harrison

1 and 2 what percentage of the production would be coming

from the perforations that are in the Jalmat Pool and what

percentage of the production would be coming from the perforations that are in the Langlie Mattix Pool?

A. No, sir, I would not. There's never been any tests since I've operated these wells where we have straddled these perforations, and I just couldn't speculate on that. I do not know.

Q. Well, it's customary in commingling cases, Mr. Freeman, to allocate production to each of the pools that's being commingled. What formula should the Division use in allocating your production?

A. I can't answer that because I just don't know. When we were with Union Texas, or I was working with Union Texas, this was discussed in the engineering subcommittees, and so forth, and that time they were thinking that 20 to 25 percent would come from the upper zone, or the Jalmat,

1 23 2 but in my opinion there was never anything very firm that you 3 could base that on. Now you mentioned that Union Texas had 5 an exemption to the vertical limit rule for this -- the Langlie 6 Jal Unit, is that correct? 7 Yes, sir, it is. 8 9 Is an exception to permit commingling 10 in the pools or is it an exception that adjusts the vertical 11 limits of the pools for that area? 12 Well, it -- it's an exemption -- or ex-13 ception R-520 -- no, I'm sorry, let's see. It's exemption 14 R-4051 that was granted in 1970, and the wells, the maximum --15 R what? R-5 --16 R-4051. 17 4051. 18 19 Yes, sir. And it shows the amount that 20 the vertical limits can cross, and the maximum depth has been 21 278 feet. 22 Well, was the exception granted on an 23 individual well basis, then, or a unit basis? 24 To my knowledge it was granted on a 25 unit basis. All these wells were granted at one time when 26 the waterflood was established, or the unit was established. 27 28 MR. NUTTER: Mr. Carr, I think it would

be appropriate that we get that order.

MR. CARR: Okay.

MR. NUTTER: And look at it and see how Union Texas was handled.

I'll recess the hearing for one minute.

(Thereupon a brief recess was taken.)

MR. NUTTER: The hearing will come to order, please.

Mr. Freeman, apparently Order No. R-4051 simply authorized a waterflood project in the Jalmat and the Langlie Mattix Pool without making any reference to commingling or allocation of production, or anything. It simply treated the two pools as one pool for waterflooding purposes.

Well, that's basically as I remember when -- I mean I couldn't recall. There was discussion at the time in the engineering subcommittee as to trying to break this out into what would be allocated to each zone, and the information, it just wasn't there, and no one had run tests on it, and --

Q But apparently for unitization purposes the entire interval was unitized and is the unitized formation.

Yes, sir. So it was all common ownership. Now there is common ownership as far as your leases here are concerned. Yes, there is. And you're offsetting a waterflood pro-ject that was recognized as being commingled for waterflooding purposes. Okay. MR. NUTTER: Are there any further questions of Mr. Freeman? He may be excused. Do you have anything further, Mr. Carr? MR CARR: Nothing further, Mr. Nutter. MR. NUTTER: Does anyone have anything they wish to offer in Case Number 7058? 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.E.

SELVIEL OF THE JUXICO ENERGY AND HITEERALS DEPARTMENT OIL CONSERVATION DIVISION 2 STACE LAID OFFICE BLDG. SANGA UP, HEW MEXICO 3 29 October 1939 DEMNISHED DEARING 5 6 7 IN THE MATTER OF: Application of Tahoe Oil & Cattle) CASE 8 Company for downhole commingling,) 7053 Lea County, New Mexico. 9 10 11 BEFORE: Daniel S. Butter 12 13 TPANSCRIPT OF HEARING 14 15 APPEARANCES 16 17 W. Perry Pearce, Esq. 18 For the Oil Conservation Legal Counsel to the Division State Land Office Bldg. Division: 19 Santa Fe, New Mexico 37501 20 21 William F. Carr, Esq. 22 CAMPBELL & BLACK P. A. For the Applicant: Jefferson Place 23 Santa Fe, New Mexico 87501 24 25 26 27

1	3
2	MR. NUMBER: The hearing will come to
3	order, please. We'll call now Case Number 7058.
4	MR. PEARCE: Application of Tahoe Oil
5	and Cattle Company for downhole commingling, Lea County, New
6	Mexico.
7	MR. CARR: May it please the Examiner,
8	
9	I'm William F. Carr, Campbell and Black, P. A., Santa Fe,
10	appearing on behalf of the applicant. I have one witness.
11	MR. NUTTER: Will the witness stand and
12	be sworn, please?
13	
14	(Witness sworn.)
15	
16	1/ F18/2577 (2017 - 2017) 1/ 25 8 8 7
17	KENNETH FREEMAN
18	being called as a witness and having been duly sworn upon his
19	oath, testified as follows, to-wit:
20	
21	DIRUCT EXAMINATION
22	BY MR. CARR:
23	Q. Will you state your name and place of
24	residence?
25	
26	A. Kenneth A. Freeman. I reside in Midland,
27	Texas.
28	0 Mr. Freeman, by whom are you employed
	and in what capacity?

1					
2	A. I own Takee Oil and Cattle Company and				
3	I'm a petroleum engineer.				
4	Q Pave you previously testified before				
5	this Commission?				
7	A Yes, I have.				
8	Ω Are you familiar with the application				
9	in this case and the subject area?				
10	A. Yes, I am.				
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14	C. Will you briefly state what Tahoe seeks				
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16	A. We have three wells in the Langlie				
17 18	Mattix zone and we are wanting to downhole commingle these				
19	three wells, and this was brought about by the work that was				
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22	These wells we purchased in 1975. They				
23	were drilled by John Hill in Dallas, and we had purchased the				
24	wells, and this is what brought it all about.				
25	Q. Have you prepared certain exhibits for				
26	introduction in this case?				
27	A. Yes, I have.				
28	Q. Will you refer to what has been marked				
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	Was that by Order Number R-4051?
	A. Yes, it was, in 1970.
	A. You are familiar with the study that the
,	Commission made on wells that were completed out of zone in
5	this area, are you not?
7	yes. I ar.
8	and there are a number of wells in the
9	Langlie Jal Unit, are there not, that are completed at shal-
10	Langlie Jal Unit, are there wells that are the sub-
11	
12	ject of this application?
13	N. Yes. N. Will you now refer to the second page
14	Q will you now relet to
15 16	of this exhibit, your completion history, and summarize any
17	haven't previously reviewed for his
18	Woll, page two is just the
19	history, which has where casing was set, where the tubing is,
20	and how the well was don't
21	find and fracture treatment
22	Wr Freeman, Will you no
23	diagrarmatic sketch,
24	Mr Nutter?
2	Well, this is just a sketch
2	6 the graing, the 8-5/8ths, the 4-1/2, where the
2	bore showing the casing, or perforations are, and where the tubing is set, and the pump
7	perforations are, and where the

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depth.

Now do the perforations in this well overlap the uppermost limit of the Langlie Matuix Pool?

> Yes, they do. A.

MR. NUTTER: Mr. Freeman, the schematic diagram may need corrected.

Exhibit Two indicates the perforations are from 3257 to 3513; Exhibit Three, from 3257 to 3515.

And the Runyon report mentions 3257 to

13. Which would be correct?

I prepared this schematic from the well file that we obtained from Mr. Hill and the 3257 to 3515 is correct, to my -- to this -- as far as I know. This is what is in our well file.

MR. NUTTER: Well, then Exhibit Two would be the one, it says 3513.

Correct. The perforations are 3257 -just a moment here. The perforations are 3257 to 3513.

MR. NUTTER: Okay, then we'll correct Exhibit Three, then.

There are twelve holes.

MR. CARR: So then page three of this exhibit should be corrected.

MR. NUTTER: To 13.

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MR. NUTTER: Okay, go ahead.

Is the ewnership in the Jalmat and the Langlie Mattix common in the Harrison No. 1 Well?

MR. CARR: Yes.

Yes, it is.

Ð, Would you now refer to the next page of this exhibit and review the information contained thereon?

 \mathbf{A}_{\bullet} This exhibit, I have prepared the production data, and the cum production on the No. 1 Well to 12-31-79 is 40,367 barrels of oil. And then I've broken it down, January through August, by monthly volumes of oil, gas, and water.

And this well is producing quite a bit of water?

Yes, it is.

Will you now refer to the next page of this exhibit and review this for Mr. Mutter?

This page was prepared by Union Texas Petroleum. It's July, 1980. It shows the production of the Langlie Jal Unit, and outlined in red is the Harrison lease, which comprises Well No. 1 that we're now discussing, and I have shown that it is making 20 barrels of oil and 60 barrels of water, and you can compare this to the various other wells in the Langlie Jal Unit and see that it -- productionwise it's

basically the same, and that's all there is to show.

All right, will you now refer to the next page of this exhibit, which is the Commission form C-116?

These are well tests that I had submitted to the Commission and it's dated March 4th, 1980. It shows the Harrison 1 as producing 40 barrels of water and 32 barrels of oil and 16 Mcf of gas on the test that was taken February 25th.

Will you now refer to the last page of this exhibit and explain to Mr. Nutter why it is included?

This is in essence a backup of the Union Texas report showing the production and the amount of water cut, and the waterflood is at this point 84 percent water cut of total fluid, and our well is in the 77 percent range. And we feel like if we can't downhole commingle, that we're going to lose a lot of oil.

Would it be possible to segregate production between the Langlie Mattix and the Jalmat Pools?

In my opinion it would be extremely difficult.

Are the reservoir characteristics such that underground waste would not result from this downhole commingling application?

Will you restate that?

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1			1.0	
2		ç.	Are the reservoir characteristics such	
3	that undergr	cound waste	will not result from downhole commingling	?
4		E.	There would not be any waste by com-	
5	mingling.			
7		€.	In your opinion will approval of this	
3	application	result in	the recovery of hydrocarbons from the	
,	Harrison No.	. 1 that wo	ould otherwise not be recovered?	
)		λ.	Yes, sir.	
		Ď.	Now would you refer to Exhibit Number	
	Two and rev	iew this ex	whibit for Mr. Nutter?	
			We might note that Exhibit Number Two	
	is similar	to Exhibit	Number One but it is for the Harrison	
	No. 2 Well.			
		Α.	Well, Exhibit Number Two is the off-	
	setting 40-	acre tract	to the Harrison No. 1. The front page	
	is the plat	of the ar	ea that we have just discussed.	
			Page number two here is the completion	
	history on	the Well N	o. 2. It is located in Unit H. Section	
	7, 25, 37,	Lea County	, New Mexico. It shows the casing and	
			erforations are 3127 to 3504, 14 holes	
	overall. A	nd then wh	at it was acidized and treated with.	
			Page three is a sketch of the wellbore	
	showing cas	ing, perfo	rations, the tubing, and the bottom hole	
	pump is set			

Again these perforations overlap the top of the Langlie Mattix?

A. Yes, they do.

The next page is the production data, the cum production as of 12-31-1979 was 30,540 barrels of oil, and the breakdown is from January through August, 1980, of both oil, gas, and water.

Will you now refer to the next page of this exhibit?

Langlie Jal Unit, showing where it is in relationship to the No. 2 Well. The No. 2 Well has a common easterly boundary to the Union Texas Unit.

And the next page is the test data that was taken February 26th, 1980, and we tested the well at 17 barrels of oil, 32 barrels of water, and 13 Mcf of gas.

And the last page is just another copy of the Union Texas production data on the Langlie dal water-flood.

And now with the Harrison No. 2, would it be possible to segregate the production between the zones in this well?

A. No, it wouldn't.

Q And in your opinion would approval of

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tubing parted, and it was decided by the working interest owners to leave it as such. So the bridge plug is stuck at 2950, and this leaves the perforations from 2814 to 2895 open, which is primarily in the Yates zone.

How what about the perforations indicated from 3214 to 3469? Are they contributing any gas?

In my opinion they are not. We feel like they are plugged off with the retrievable bridge plug and the sand that's on top of it.

Will you now refer to the next page of this exhibit, the production data?

It will be noted that the production of oil was 14,655 barrels of oil as of January 1, 1980, and during 1980 we have made no oil from the -- this well, and it produces only gas and water, and it is currently averaging 41 Mcf a day, and it is being classified as a stripper gas well.

Will you now refer to the plat, which is the next page in Exhibit Three?

Well, this is another copy of the Langlie Jal Unit, showing the Judy 1 has a common north boundary with the Union Texas Unit, the Langlie Jal Unit.

Will you now review the data contained on Form C-116, which is attached?

> This shows that the test was taken Febħ.

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ruary 27th, 1990. The well made no oil, 97 barrels of water, and 70 MeC of was.

And now the final page?

A This is just another page of the summation of Union Texas' waterflood, showing production, number of active wells, et cetera.

Now, Mr. Freeman, I would direct your attentio to the report that was prepared by Mr. Runyon concerning the pool boundaries and the wells which appear to be completed out of zone, and ask you in regard to the Judy No. 1, what figure do they recite for the pool boundary in that well?

A It is referred to as 3335 feet.

Now in the Judy No. 1 as now completed, are all the perforations in the Jalmat zone?

A Yes, they are.

would request that this portion of the case -- we'd like to break this out of the case and ask that it be advertised as an exception to the vertical limits of the Langlic Mattix Pool. We think that the testimony that we've submitted would justify an order for an exception, due to the completion, or the manner in which this well is completed, all the perforations are in one zone, and it would be inappropriate to go

forward and attempt to downhole commingle this production.

MR. NUMBER: Well, you're assuming it's established that there's no communication --

BR. CARR: That's correct.

PR. HUTTER: -- between the uppermost perforations and the lowermost perforations.

MR. CARR: That's correct.

MR. NUTTER: I'm not sure there isn't.

MR. CARR: Okay. Well, if the testimony appears to show that all of the production comes from
one zone, we would request that we be permitted to separate
the Judy No. 1 from the rest of the -- from the other two
wells.

MR. NUTTER: If it's established that there's no communication all of the perforations are in the Jalmat. There's no commingling --

MR. CARR: That's right.

MR. NUTTER: There's no exception.

It's just an unusual method of separating the pools.

MR. CARP: All right, well, we'll defer

then --

MR. NUTTER: And if it's established that this is the case, then that portion of this case can be dismissed and the well is home free.

.

MR. CARR: Okay.

0. Wr. Freeman, is there any -- in your
opinion will approval of the application for the Harrison 1,
2, and 3, result in the recovery of hydrocarbons that would
not otherwise be recovered?

A. It would be the Harrison 1 --

1 and 2 and the Judy No. 1?

A. Yes, it would. I would like to point out at this time, the Judy No. 1 is not making any oil.

0 Do you have anything further you'd like to add to your testimony here?

wells are the same as the Union Texas Wells that are in the Langlie Jal Waterflood Unit. At one time I worked for Union Texas Petroleum and was unitization engineer and did a great deal of work on the Langlie Jal Unit, and I'm very familiar with it, and I think if we compare the logs, which I have done, and so forth, these are all very comparable wells and they have a common boundary.

Q. Will granting this application be in the interest of conservation, the prevention of waste, and the protection of correlative rights?

A. Yes, it would.

Q Were Exhibits One through Three prepared

1	17
2	by you or under your direction and supervision?
3	A. Yes, they were.
4	MR. CARR: At this time, Mr. Nutter,
5	we would offer into evidence Applicant's Exhibits One through
6 7	Three.
8	MR. NUTTER: Exhibits One through Three
9	will be admitted in evidence.
10	MR. CARR: I have nothing further on
11	direct.
12	MR. NUTTER: Are there any questions of
13	Mr. Freeman?
14	
15	CROCC EVANTAMENT
16	CROSS EXAMINATION
17	BY MR. NUTTER:
18	0 Mr. Freeman, on this Judy No. 1, when
. 19	was the where was the well originally perforated, in the
20	lowermost perforations, those down there at 3214 to 3469?
21	A Yes, sir.
22	Q. Uh-huh. And when was the attempt made
23	to perforate in the upper portion, the 2814 to 95?
24	
25	A This was done in 1977.
26	Q And then the well produced from both
27	sets of perforations for a period of time, did it?
28	No, sir. In 1977 when the perforations

•

from 2814 to 2895 were opened up, the bridge plug and fish was -- that all occurred at the same time during the workover procedure. And there is a great number of working interest owners in this and there was a problem of getting them to gether as to whether we were going to clean this out and commingle it, and asked to do this, and we wanted to test what just the Yates would do, and they decided they wanted to leave it just as the upper zone, from 2814 to 2895.

Q Uh-huh.

A And so --

g So from 1974 until 1977 it produced from the lowermost perforations?

A. Yes, sir.

Q. Then the attempt was made to open the uppermost perforations and at that time, after perforating, you tried to pull the bridge plug and had the trouble.

Plug was set, the well was fracd, and went down to wash the sand off of it, got it cleaned out and released the bridge plug and it stuck. There was additional sand that fell in on top of it, and the tubing was pulled in two.

Q Okay, now is that tubing in the bridge plug open at the bottom or did the bridge plug seal off the bottom of the tubing?

1		19
2	Ä.	The bridge plug seals off the bottom of
3	the tubing. This was	just to fish out the there is not an
4	opening in the bridge	plug.
5	C .	This tubing was not production tubing.
6 7	This is the tubing the	at you went in to try to pull the bridge
8	plug.	
9	A.	Correct.
10	Ç.	So there's no opening down here at the
11	bridge plug?	
12	A.	No, there is not.
13	Ω.	Now you did pull the bridge plug up from
14	its original seating	
15	A.	It came up 25 to 30 foot.
16	Q.	Before the tubing parted.
17 18	A.	Yes, sir.
19	Q.	Now do you think it broke its seal at
20	that time?	non do jou chim io siono ion soni do
21	a.	I think there's a possibility that it
22	, and the second	ith this sand and so forth that has
23	·	t, I feel that it is packed off.
24	_	Now how do you know that that sand is
25	there?	Now now do you know char that said is
26		We would be to the and not on ton of the
27 28	A.	We went in to try and get on top of the
	l rmrnd and our oversu	ot would not go down, and so this would

Broad-

1 2 3 á at that time. 5 6 7 8 9 tion? 10 11 forations. 12 13 14 15 16 17 18 oil well? 19 20 21 was uneconomical. 22 Ç. 23 A. 24 the gas on it. 25 26 9. 27 A. 28 Q.

require running washover pipe to circulate the sand off, and the working interest owners did not want to spend the money

Now would this be sand from the uppermost perforations, or this would be frac sand that was used to -to frac the uppermost perforations when you made that comple-

Yes, it's sand from the uppermost per-

Okay. Now did the producing characteristics of the well prior to the time it was dead -- now we realize that it was dead at the time you worked it over. What were the producing characteristics of it prior to the time you worked it over? Before it went dead, I mean? Was it an

Yes, it was. It made about 2 to 3 barrels of oil a day and about 90 barrels of water. And this

And how about gas production?

It had about -- I'm going to estimate It had about 20 Mcf a day from the lower zone.

And then the thing went completely dead?

Yes.

Then when you established production from

Yes, they are, and the question is, I

don't think it's going in the right spot. I think they have

27 28

channeling, and I think this is why Well No. 70 and 68 has been abandoned. But you can look just to the north of 69, Well 54, is 2 barrels of oil and 40 barrels of water, and this was very similar to while the Judy 1 was doing prior to the decision being made to come up the hole and complete it in these upper perforations.

Now do you have any idea on the Harrison

1 and 2 what percentage of the production would be coming

from the perforations that are in the Jalmat Pool and what

percentage of the production would be coming from the perfor
ations that are in the Langlie Mattix Pool?

A. No, sir, I would not. There's never been any tests since I've operated these wells where we have straddled these perforations, and I just couldn't speculate on that. I do not know.

Q. Well, it's customary in commingling cases, Mr. Freeman, to allocate production to each of the pools that's being commingled. What formula should the sion use in allocating your production?

A. I can't answer that because I just don't know. When we were with Union Texas, or I was working with Union Texas, this was discussed in the engineering subcommittees, and so forth, and that time they were thinking that 20 to 25 percent would come from the upper zone, or the Jalmat,

but in my opinion there was never anything very firm that you could base that on.

New you mentioned that Union Texas had an exemption to the vertical limit rule for this -- the Langlie Jal Unit, is that correct?

Yes, sir, it is.

Is an exception to permit commingling in the pools or is it an exception that adjusts the vertical limits of the pools for that area?

Well, it -- it's an exemption -- or exception R-520 -- no, I'm sorry, let's see. It's exemption R-4051 that was granted in 1970, and the wells, the maximum --

R what? R-5 ---

R-4051.

4051.

Yes, sir. And it shows the amount that the vertical limits can cross, and the maximum depth has been 278 feet.

Well, was the exception granted on an individual well basis, then, or a unit basis?

To my knowledge it was granted on a unit basis. All these wells were granted at one time when the waterflood was established, or the unit was established.

MR. NUTTER: Mr. Carr, I think it would

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be appropriate that we get that order.

MR. CARRE Okay.

ER. HUTTER: And look at it and see how Union Texas was handled.

I'll recess the hearing for one minute.

(Theroupon a brief recess was taken.)

MR. NUTTER: The hearing will come to order, please.

Mr. Freeman, apparently Order No. R-4051 simply authorized a waterflood project in the Jalmat and the Langlie Mattix Pool without making any reference to commingling or allocation of production, or anything. It simply treated the two pools as one pool for waterflooding purposes.

when -- I mean I couldn't recall. There was discussion at the time in the engineering subcommittee as to trying to break this out into what would be allocated to each zone, and the information, it just wasn't there, and no one had run tests on it, and --

© But apparently for unitization purposes the entire interval was unitized and is the unitized formation.

You, six. So it was all common ownership. Now there is common ownership as far as your leases here are concerned. Yes, there is. And you're offsetting a waterflood project that was recognized as being commingled for waterflooding purposes. Okay. MR. NUTTER: Are there any further questions of Mr. Freeman? He may be excused. Do you have anything further, Mr. Carr? MR CARR: Nothing further, Mr. Mutter. MR. NUTTER: Does anyone have anything they wish to offer in Case Number 7058? We'll take the case under advisement. (Mearing concluded.)

CERTIFICATE

I, SALLY W. BOYD, C.S.R., DO HEREPY CERTIFY that the foregoing Transcript of Mearing 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.

Oll Conservation Division, Examiner

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COMPLETION HISTORY

Lease: Harrison, Well No. 1

Pool Name: Langlie-Mattix - Seven Rivers Queen

Fee Lease

Location: Unit Letter A, 660' FNL & 860' FEL of Section 7, Township 25-S,

Range 37-E

Spud: 12-8-73

Complete: 3-5-74

PBTD 3600' T.D. 3642'

Elev. 3174' GL

12-1/4" hole, 8-5/8" @ 357' w/175 sx.

7-7/8" hole, 4-1/2" @ 3636' w/375 sx.

2-3/8" tbg. @ 3515'

Perfs: 3257' - 3513' w/12 shots (overall)

1. Perf'd Seven Rivers Queen 3257' - 3513' w/12 shots, Acidized with 1000 gals 15% & fracture treated w/30,000 gals gelled fresh wtr. & 40,000# sand. Ran pmp & rods & hung well on prod.

85/8"e 357'

2"x1"2" x12 pmp

Seven Rivers Queen Perfs

_____3515' 23/2" Tbg @ 3515'

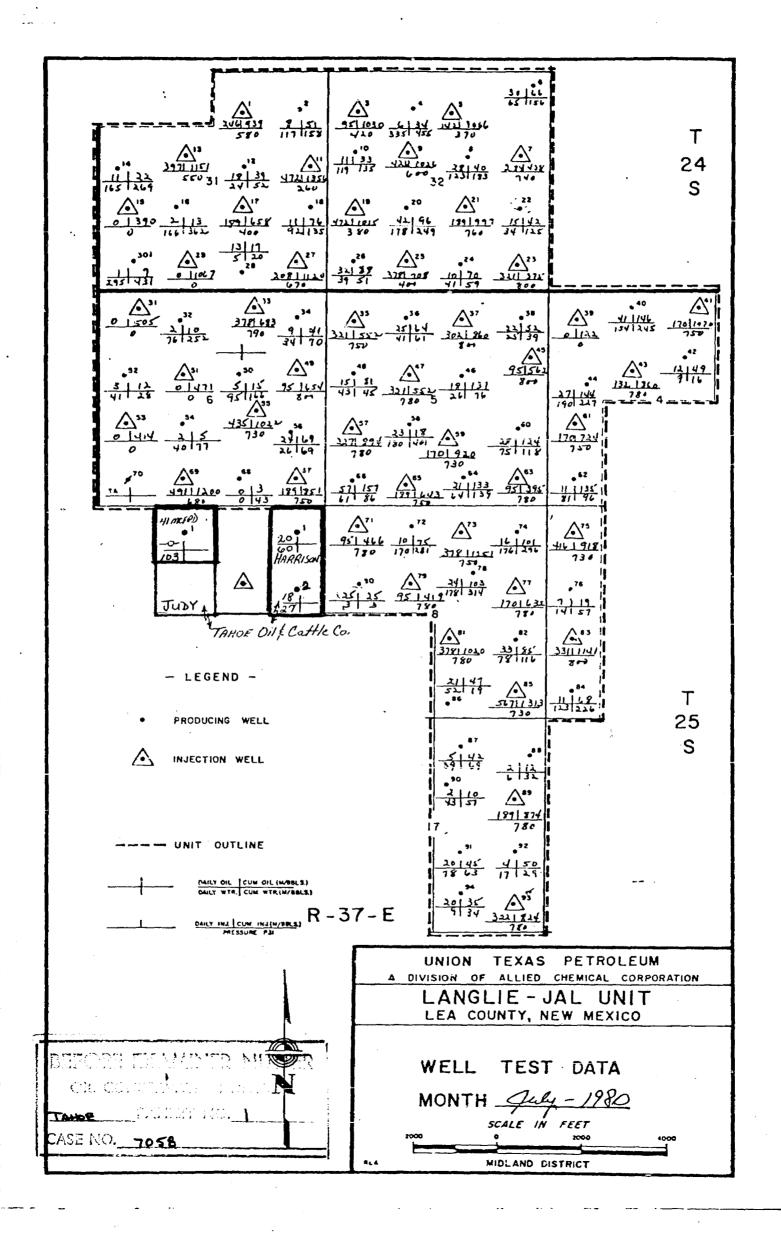
41/2"e 3636'

Harrison Well No. 1
Lea County, New Mexico
Langlic-Mattix Seven Rivers Queen
A, S-7, T-25-S, R-37-E

Production Data

Cum. to 12-31-79 40,367 0il

1980	Oil (bbls)	Gas (MCF)	Wtr.(bbls)
January	825	395	1151
February	726	356	1013
March	685	338	963
April	632	338	1000
May	742	326	1111
June	626	319	1100
July	550	305	1108
August	704	330	1114



Sperator			Pool	اَ			ļ		-	000	County					
Tahoe Oil & Cattle Co.				Langlie		Mattix Seven		Rivers Q	Queen		Lea					
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No well will be assigned an allowable greater than the amount of oil produced on the official test.

During gen-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent followables when sutherized by the Commission.

Gas volumes must be reported in MCF measured at a pressure base of 15,025 pala and a temperature of 60° F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

Mail original and one copy of this report to the district office of the New Mexico Oli Conservation Commission in accordance with Rule 30) and appropriate peel rules.

is true and complete to the best of my know-ledge and belief. I hereby certify that the above information

March 4, 1980 Petroleum Engineer (Tide)

(Date)

UNION TEXAS PETROLEUM

1300 WILCO BUILDING, MIDLAND, TEXAS 79701

HONTHLY FLUID INJECTION REPORT (Project)

Seven Rivers Queen (Field/Pool)

	,			0						0 - 0		
				566-0	39	48 1 40 5	48 1 39 6	18 48 1 39 6 6	3	48 1 39 39 39	44	WELL STATUS Producing Active Producing Inactive In:ection Active
					326,7 10,5 36,168,0	265,9 8,8 35,841,3	282,6 9,1 35,575,3	275,086 9,170 35,292,774	325,593 6 10,503 5 35,017,688	8 288,430 7 9,946 5 34,692,095	324,178 10,457 34,403,665	NATER (BBLS.) Injected Oaily Average Cumulative Since Unitization
					1,372 3,235,923	31,08/	30,708 1,228 3,171,913	28,242 1,168 3,141,205	28,416 1,121 3,112,963	27,336 1,100 3,084,54	28,550 1,049 3,057,211	Produced Produced GOR Cumulative Since Unitization
						118,971 3,966 84% 6,852,285	122, 438 3,950 83% 6,733,314	109,050 3,635 82% 6,610,876	124,703 4,023 83% 6,501,826	114,360 3,943 823 6,377,123	130,737 4,217 83% 6,262,763	WATER (BBLS.) Produced Daily Average Percent Total Fluid Cumulative Since Unitization
			4		28,396 24,005 774 3,006,459	27,480 28,396 23,253 24,005 775 774 2,982,454 3,006,459	28,396 24,998 806 2,959,201	32,370 24,174 806 2,934,203	33,449 25,352 318 2,910,029	31,291 24,801 855 2,884,677	33,449 27,208 878 2,859,876	Allowable Produced Daily Average Cumulative Since Unitization
DEC.	NOV	130	SEPT.	AUG.		ANDE	1 1	APR.	MAR.	FEB.	JAN.	White And Harry

EFFECTIVE DATE OF UNIT 3-1-71

CUMULATIVE OIL PRODUCTION TO UNITIZATION_

WATER INJECTION BEGAN 5-23-72

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ARCA 1 COUNTY NEW MEXICO
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COMPLETION HISTORY

Lease: Harrison, Well No. 2

Pool Name: Langlie-Mattix Seven Rivers Queen

Fee Lease

Location: Unit Letter H, 1980' FNL & 660' FEL of Section 7, Township 25-S,

Range 37-E

Spud: 5-24-74

Complete: 9-15-74

T.D. 3610' P.B.T.D. 3570'

Elev. 3147'

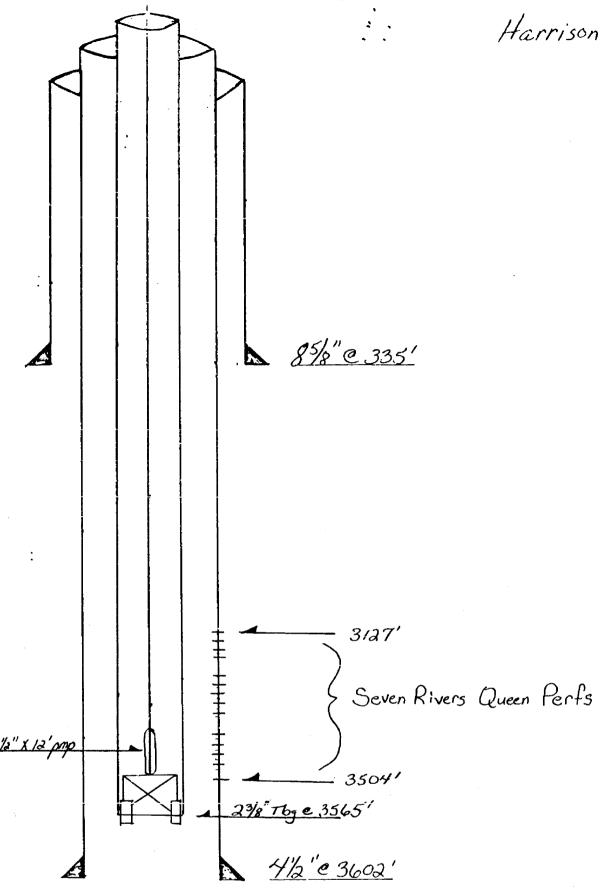
12-1/4" hole, 8-5/8" @ 335' w/175 sx.

7-7/8" hole, 4-1/2" @ 3602' w/325 sx.

2-3/8" tbg. @ 3565'

Perfs: 3127' - 3504' w/14 shots (overall)

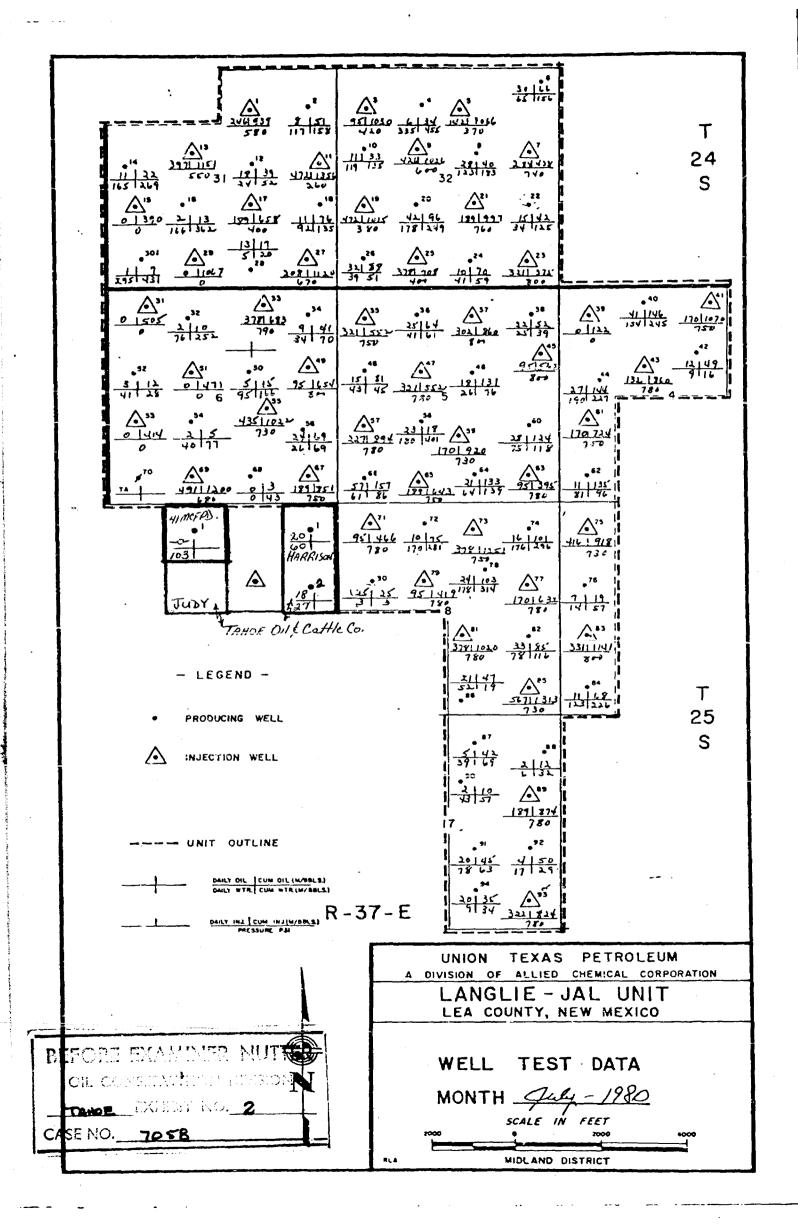
 Perf'α Seven Rivers Queen 3127' - 3504' w/14 shots, Acidized w/ 2000 gals 15% & fracture treated w/28,000 gals gelled fresh wtr. & 40,000# sand. Ran pmp & rods & hung well on prod.



Harrison Well No. 2
Lea County, New Mexico
Langlie-Mattix Seven Rivers Queen
H, S-7, T-25-S, R-37-E

Production Data
Cum. to 12-31-79 30,540 0il

1980	Oil (bbls)	Gas (MCF)	Wtr.(bbls)
January	406	323	942
February	357	291	828
March	338	277	778
April	312	276	811
May	365	266	909
June	308	261	900
July	271	249	907
August	347	270	911



Revised 1-1-65

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Tahoe Oil & Cattle Co.			1	Langl	ie Ma	Langlie Mattix Seven Rivers	Ri	vers Que	reen		Lea	ı				
Address P. O. Box 3084, Midland, 5	Texas 79	79702				4-1	TYPE	TYPE OF	Sch	Scheduled [X]		Completion	tion		Special	<u>a</u>
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	ž O.	c	.	-	20	TEST	STAI	SIZE	PRESS.	ABLE ABLE	1611 HOURS	WATER BELS.	GRAV.	88r % 01r	M.C.F.	CU.FT/BBL
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No well will be assigned an allowable greater than the amount of oil produced on the official test.

During ges-ell ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is lecated by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission.

Gas volumes must be reported in MCF measured at a pressure base of 15,025 pais and a temperature of 60° F. Specific gravity base will be 0.60.

Report casing presence in lieu of tubing pressure for any well producing through casing.

Mail original and one copy of this report to the district office of the New Mexico Oli Conservation Commission in accordance with Rule 30) and appropriate pool rules.

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

(Signature)

Petroleum Engineer

(Titie)

March 4, 1980

UNION TEXAS PETROLEUM

1300 WILCO BUILDING, MIDLAND, TEXAS 79701

MONTHLY FLUID INJECTION REPORT (Project)

Seven Rivers Queen (Field/Pool)

Water Supply Inactive	Water Supply Active	Injection Inactive	Injection Active	Producing Inactive	Producing	ELL STATUS		Daily Average	NATER (BBLS.) Injected	NJECTION	. Cumulative Since Unitization	,GOR	31	ive Since	Percent Total Fluid	Daily Average	Produced	Cumulative Since Unitization	Daily Average	Produced	Allowable	RODUCTION ()	June 17 1 Per
0		6	39		48		34,403,665	10,457	324,178		3,057,211	1,049	28,550	6-262-763	83%	4 217	130.737	2,859,876	878	27, 208	33,449	•	JAN.
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EFFECTIVE DATE OF UNIT 3-1-71

CUMULATIVE OIL PRODUCTION TO UNITIZATION_

WATER INJECTION BEGAN 5-23-72

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Lease: Judy, Well No. 1

Poll Name: Langlie-Mattix Seven Rivers Queen

Fee Lease

Location: Unit Letter C, 990' FNL & 1980' FWL of Section 7, Township 25-S,

Range 37-E, Lea County, New Mexico

Spd: 1-24-74

Comp. 4-2-74

T.D. 3617'

P.B.T.D. 3600'

Elev. 3158' GL

12-1/4" hole, 8-5/8" @ 348' w/175 sx.

7-7/8" hole, 4-1/2" @ 3617' w/325 sx.

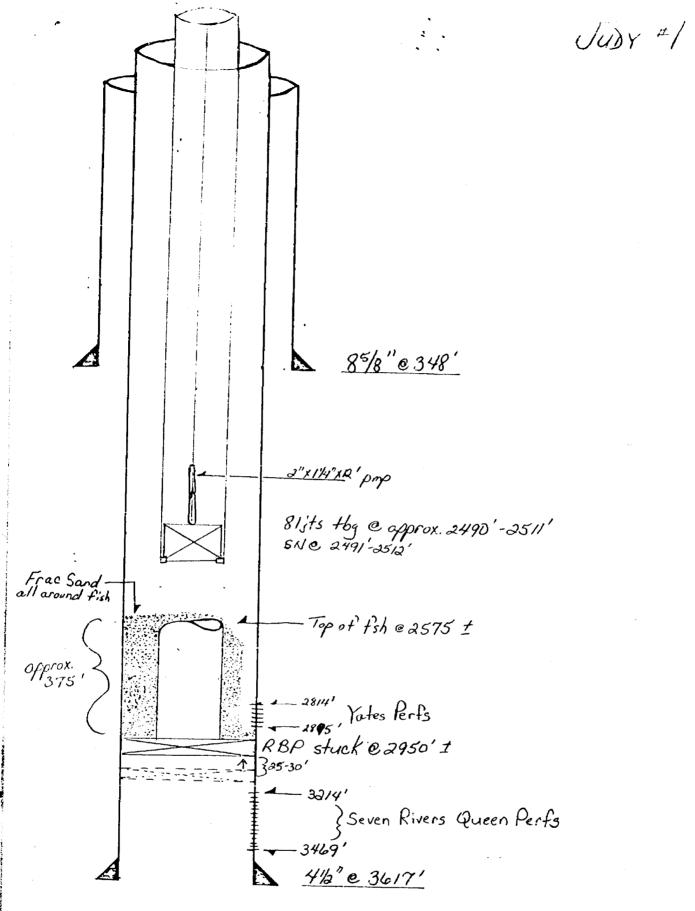
2-3/8" Tbg. 2490' - 2511'

Producing Perfs 2814' - 2895'

1. Perf (Seven Rivers Queen) 3214' - 3469' w/15 shots (overall), Acidized with 1000 gals; Fracture treated w/30,700 gals gelled fresh wtr. & 40,000 # sand, Ran pmp & rods & hung well on production.

In 1977 well dead, Ran Gamma Ray & Collar Log 2650' - 3460'. Perf'd 2814' - 2895'. CO₂ acid & sand frac (2814'-2895') max psi 3900, SI 1000 psi

Ran RBP & 94 jts. tbg., loaded tbg. to clean around BP. Picked up & unseated BP moved 25'-30' & tbg. parted. WIH with overshots & Lumper sub, caught fish but couldn't jar locse, POOH. WIH & cut fish @ 2575'. WIH w/seatnipple & 81 jts. tbg. Ran Pmp & rods & hung well on prod.



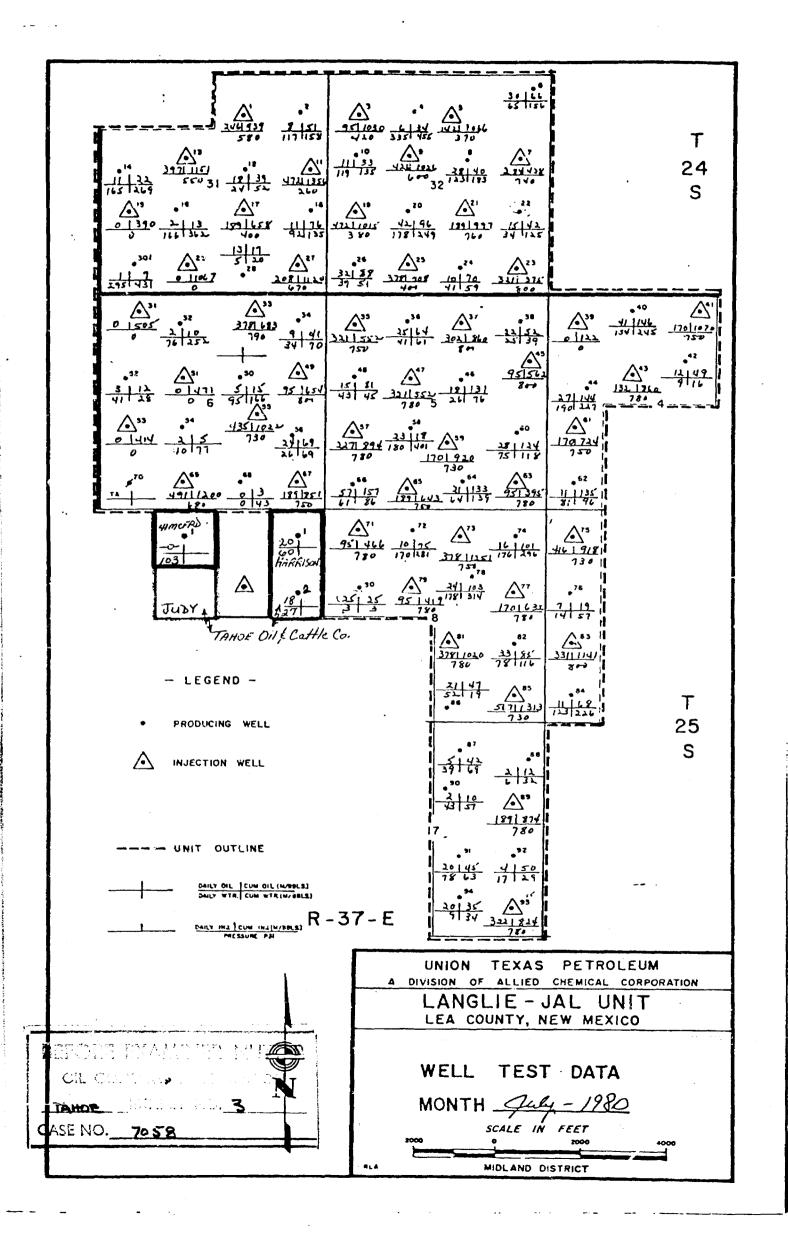
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Judy No. 1
Lea County, New Mexico
Langlie-Mattix Seven Rivers Queen
C, S-7, T-25-S, R-37-E

Production Data

Cum. to 12-31-79 14,655 0il

1980	<u>0il (bbls)</u>	Gas (MCF)	Wtr.(bbls)
1700	-0-	1580	3030
January	-0-	1374	4799
February	-0-	1357	3038
March	-0-	1388	3020
April		1432	3266
May	-0-	1225	3190
June	0-	1264	3182
July	-0-		3190
August	-0-	1403	



GAS-OIL RATIO TESTS

Revised 1-1-65 = 5

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Tahoe Oil & Cattle Co.			7 100d	l Langlie		Mattix Seven		Rivers Qu	reen	County	nty Lea				-	
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No well will be assigned an allowable greater than the amount of oil produced on the official test.

During gas-ell ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is lecated by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission.

will be 0.60. Can volumen must be reported in MCF measured at a pressure base of 15,025 pain and a temperature of 60° F. Specific gravity base

Report casing pressure in lieu of tubing pressure for any well producing through casing.

Mail original and one copy of this report to the district office of the New Mexico Oli Conservation Commission in accordance with Rule 301 and appropriate pool rules.

is true and complete to the best of my know-ledge and belief. Petroleum Engineer I hereby certify that the above information (Signature)

March 4, 1980

(Date)

UNION TEXAS PETROLEUM

1300 WILCO BUILDING, MIDLAND, TEXAS 79701

MONTHLY FLUID INJECTION REPORT (P

YEAR 1980 (Project) (Field/Pool)

July 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	JAN	FFR	MAR	APR	МАУ	JIIV	, IIII.	Alia	SEPT	0CT.	NOV.	DEC.
PRODUCTION ()												
Allowable	33,449	31,291	33,449	32,370	28,396	27,480	28.396					
Produced	27.208	24.801	25.352	24.174	24.998	23, 253						
Daily Average	878	855	818	806	806	775						
Cumulative Since Unitization	2.859.876	2.884.677	2.910.029	2,934,203	2,959,201	2,982,454	3,006,459					
									- 1			
Produced	130,737	114.360	-1;	109,050	122.438	118,971	123,961		4			
Daily Average	4,217	3,943		3,635	3,950	3.966	3.900					
Percent Total Fluid	83%	82%		82%	83%		84%					
Cumulative Since Unitization	6,262,763	6,377,123	6,501,826	6,610,876	6,733,314	6.852.285	6,976					
Produced	28,550	27,336	28,416	28,242	30.708	31,087	32,923					
,GOR	.] ,049	1,102	1,121	1,168	1.228		1.372					
. Cumulative Since Unitization	3,057,211	3,084,547	3,112,963	3,141,205	3,171,913	3,203,000	3,235,923					
INJECTION WATER (BBLS.) Injected	324,178	288,430	325,593	275,086	282,624	265,924	326,717					
	.457	9.946	10.503	170	9,117	8,864						
Cumulative Since Unitization	34,403,665	34,692,095	35,017,688	774	35,575,398	575,39835,841,322	36,168,039					
WELL STATUS Producing Active	48	4 _R	400	48	48	48	. 420		-	·		
Producing Inactive		1	1]								
Injection Active	39	39	39	39	39	40	39					
Injection Inactive	6	9	6	б	9	5	6					
Water Supply Active												
Supply	0	0	01	0	D	0	0					
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EFFECTIVE DATE OF UNIT 3-1-71

CUMULATIVE OIL PRODUCTION TO UNITIZATION

WATER INJECTION BEGAN 5-23-72

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ARCA (1) LEA COUNTY NEW MEXICO ARCA (1) M.E. HALE, 5-2, T-25-S, R-37-E M.E. HALE, 5-2, T-25-S, R-37-E
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Lease: Harrison, Well No. 1

Pool Name: Langlie-Mattix - Seven Rivers Queen

Fee Lease

Location: Unit Letter A, 660' FNL & 860' FEL of Section 7, Township 25-S,

Range 37-E

Spud: 12-8-73

Complete: 3-5-74

T.D. 3642' PBTD 3600' Elev. 3174' GL

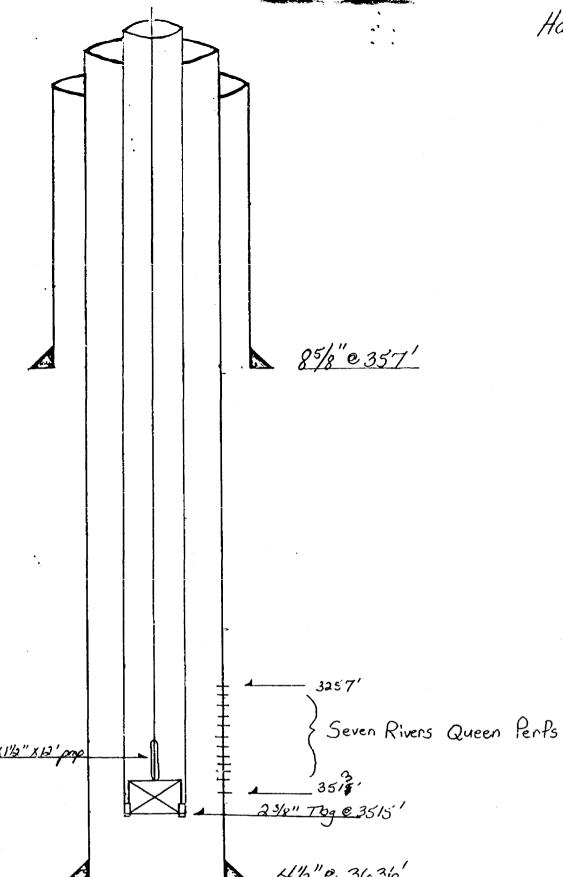
12-1/4" hole, 8-5/8" @ 357' w/175 sx.

7-7/8" hole, 4-1/2" @ 3636' w/375 sx.

2-3/8" tbg. @ 3515'

Perfs: 3257' - 3513' w/12 shots (overall)

1. Perf'd Seven Rivers Queen 3257' - 3513' w/12 shots, Acidized with 1000 gals 15% & fracture treated w/30,000 gals gelled fresh wtr. & 40,000# sand. Ran pmp & rods & hung well on prod.



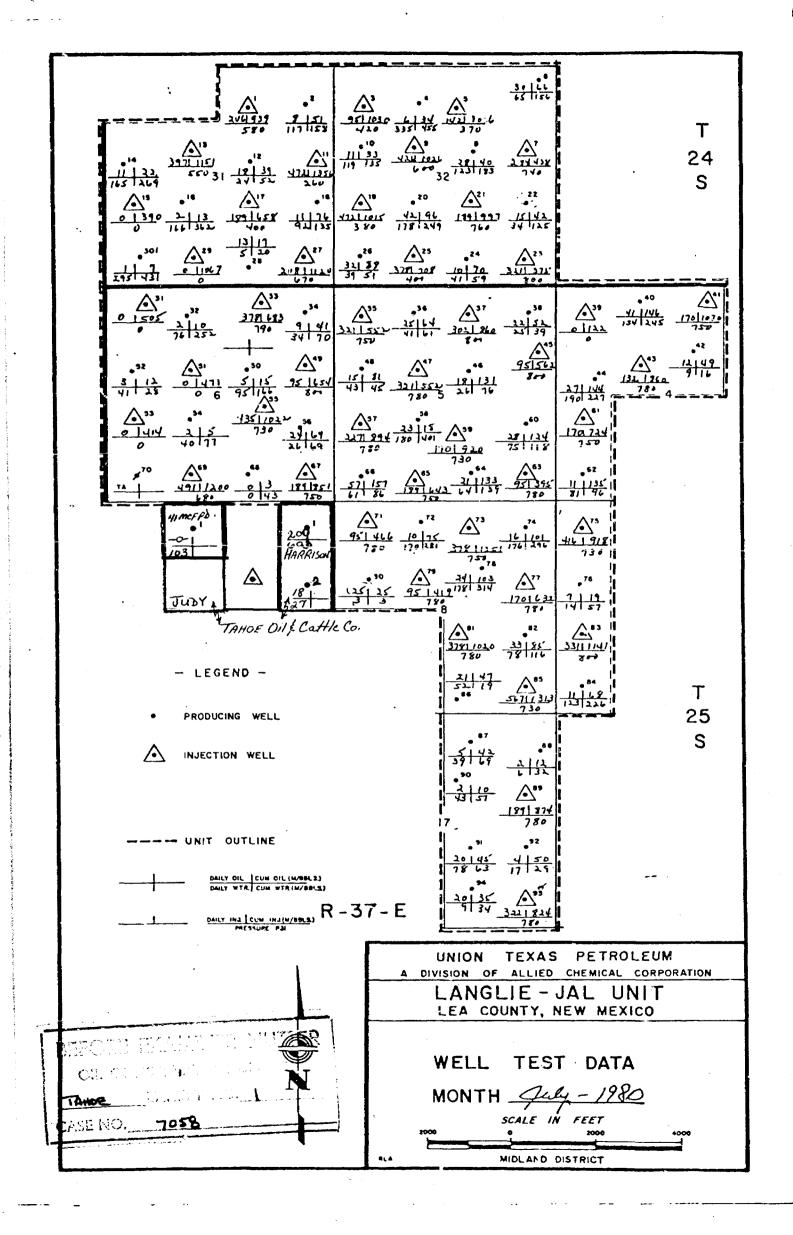
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Harrison Well No. 1
Lea County, New Mexico
Langlie-Mattix Seven Rivers Queen
A, S-7, T-25-S, R-37-E

Production Data

Cum. to 12-31-79 40,367 0il

Cum. to 12-31-79	40,000	(MOE)	Wtr.(bbls)
1000	0il (bbls)	Gas (MCF)	
1980		395	1151
January	825		1013
	726	356	
February	685	338	963
March		338	1000
April	632		1111
	742	326	
May	626	319	1100
June	920	205	1108
July	550	305	111/
July	704	330	1114
August	•••		



*Tahoe Oil & Cattle Co.			T P001	ol Langlie		Mattix Seven	Rivers Q	Que en	County	nly Lea				-	
Box 3084, Mic	Texas 7	79702	 - -			77	-	<u>S</u>	Scheduled X		1	Completion		Sp•	Special [
	werr		٢٥٥	LOCATION		DATEOF	CHOKE	T8G.	DAILY	LENGTH	9	ROD. C	PROD. DURING	TEST	GAS - OIL
LEASE NAME	<u>х</u> О	c	s	7	23	! ⊣		PRESS.	ABLE ACLOW-	TEST HOURS	WATER BBLS.	GRAV.	88L% 01L	M.C.F.	CU.FT/BBL
Ramsey State	1	l7j	36	24	37	2/29/80	d	20	2	24	. 5	35	2	07	5,000
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No well will be assigned an ellewable greater than the amount of oil produced on the official test. During gas-all ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is lecated by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned.	ewable great well shall	er than	the en	ta rate	oli produ	ced on the official seeding the top unli	test. t silowable for	the poo	i in which we	ý.	is tru	I hereby certify is true and comp	ertify the	at the avov	I hereby certify that the above information is true and complete to the best of my know-
Gae volumes must be reported in MCF measured at a pressure base of 15,025 pais and a temperature of 60° F will be 0.60.	in MCF mee	e peme	t e pre	eure be	•• bf 15	.025 pala and a ten	nperature of 60	•	Specific gravity base						
Report casing pressure in lieu of tubing pressure for any well producing through casing. Mell eriginal and one copy of this report to the district office of the New Novico Oli Conservation Commission in accordance with	of tubing pre-	5	or any a	ell prod	cing th	ough casing. W Mexico Oll Cons	ervetion Comm	il esten l	n scoordsnee	5	រី -		3	•	\
Mule 10) and epprepriate geel rules.		٠.					• *.				Pet	Petroleum	En	(Signature)	•
											March	ch 4,	1980	(Tide)	
•															

(Date)

UNION TEXAS PETROLEUM

1300 WILCO BUILDING, MIDLAND, TEXAS 79701

MONTHLY FLUID INJECTION REPORT LANGLIE-JAL UNIT YEAR 1980 (Project) (Field/Pool)

Water Supply Inactive	01 10d		Producing Inactive	Producing Active	USI I STATUS	Cumulative Since Unitization	Daily Average	Injected	INJECTION	. Cumulative Since Unitization	,GOR	ובו.	GAS (NCF)		Percent Total Fluid	Daily Average	Produced	Cumulative Since Unitization	qe	Produced	Allowable	PRODUCTION ()	
	٩	39		48		34,403	10,457	324,178		1 3,057,211	1,049	28,550		6.262	83%	4,217	130.737	2.859.876		27,208	33,449		JAN.
0	10			48		34.69		288,430		3,084,547		27,336	0	6.377		3,943	114,360	2.884.6//		24.801	31,291		FEB.
0		39		48		35,017,688	10,503	325,593		3,112,963	1,121	28,416		6.501.826	83%	4,023	124,703	2,910,029	818	25, 352	33,449		MAR.
2	ت ب	39		48		688 35, 292, 774	9.170	275,086		3,141,205	_	28,242		6,610,876	82%	3,635	109,050	2.934.203	806	24,174	32,370		APR.
2	م د	39		48		35,575,39835		282,624		3.171.913		30, 708				3,950	122,438	2,959,201		24,998	28,396	·	MAY
0	7	40		48		.841, 322	8,864	265,924		_,_	337	31.087	1	6.852.285	84%	3.966	118,971	- 1	775	23,253	27,480		JUNE
0	1	75	3	48		36,168,039	10,539	326,717		3,235,923	1,372	32,923		6.976.246	84%	3 990	123,961	3,000,459	774	24,005	28,396		אוור א
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EFFECTIVE DATE OF UNIT 3-1-71

CUMULATIVE OIL PRODUCTION TO UNITIZATION.

WATER INJECTION BEGAN 5-23-72

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Lease: Harrison, Well No. 2

Pool Name: Langlie-Mattix Seven Rivers Queen

Fee Lease

Location: Unit Letter H, 1980' FNL & 660' FEL of Section 7, Township 25-S,

Spud: 5-24-74

Complete: 9-15-74

T.D. 3610

P.B.T.D. 3570'

Elev. 3147'

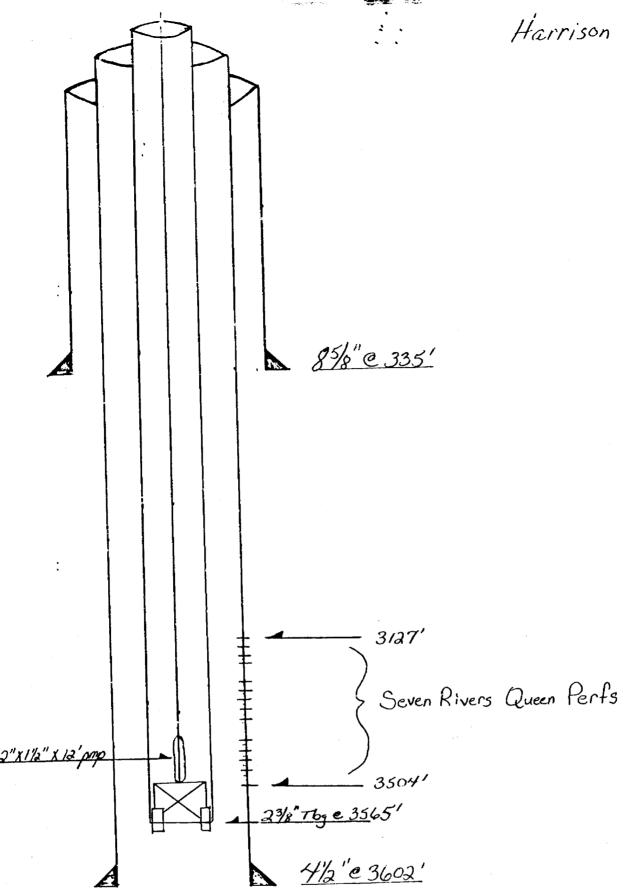
12-1/4" hole, 8-5/8" @ 335' w/175 sx.

7-7/8" hole, 4-1/2" @ 3602' w/325 sx.

2-3/8" tbg. @ 3565'

Perfs: 3127' - 3504' w/14 shots (overall)

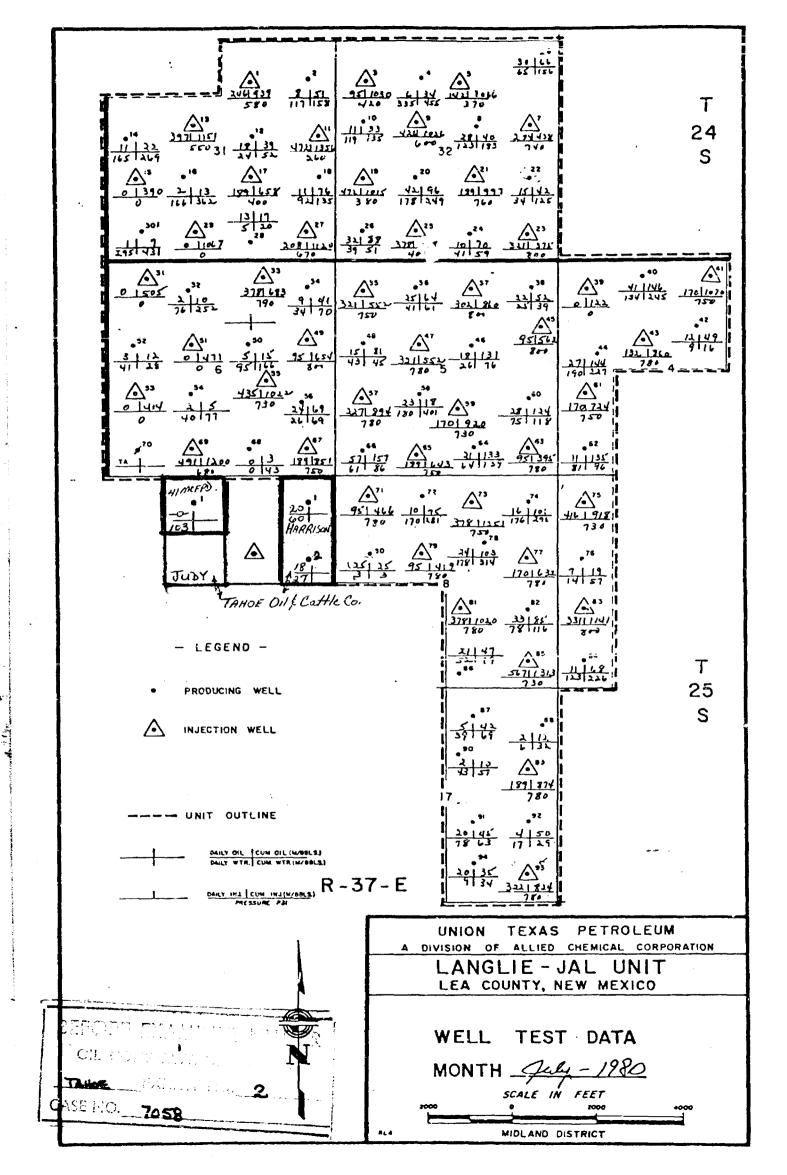
1. Perf'd Seven Rivers Queen 3127' - 3504' w/14 shots, Acidized w/ 2000 gals 15% & fracture treated w/28,000 gals gelled fresh wtr. & 40,000# sand. Ran pmp & rods & hung well on prod.



Harrison Well No. 2
Lea County, New Mexico
Langlie-Mattix Seven Rivers Queen
H, S-7, T-25-S, R-37-E

Production Data
Cum. to 12-31-79 30,540 0il

1980	<u>011 (bbls</u>)	Gas (MCF)	Wtr.(bbls)
January	406	323	942
February	357	291	828
March	338	277	778
April	312	276	811
May	365	266	909
June	308	261	900
July	271	249	907
August	347	270	911



NET MEAILO DIL CONSERVATION COMMISSION GAS-OIL RATIO TESTS

Revised 1-1-65

			7001	2					-	County						
Tahoe Dil & Cattle Co.			 	Langlie		Mattix Seven		Rivers Q	ueen		Lea					
Address P. O. BOX 3084 Midland	DEADL.	79702					4 Y	TYPE OF		*)	,	١		֓֞֞֝֟֓֓֓֓֓֓֓֓֓֓֓֓֓֓֟֓֓֓֟֓֓֓֟֓֓֓֓֓֟֓֓֓֟֓֓
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No well will be easigned an ellowable greater than the amount of oil produced on the official test.

During gas-ell retio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is lecaled by more than 25 percent, Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased ellowables when authorized by the Commission.

WIII be 0.60. Gas volumes must be reported in MCF measured at a pressure base of 15,025 pais and a temperature of 60° P. Specific gravity base

Report saving pressure in lieu of tubing pressure for any well producing through casing.

Mail original and one copy of this report to the district office of the New Mexico Oli Conservation Commission in accordance with Rule 301 and appropriate post rules.

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

March 4, 1980 (Tide) (Date)

Petroleum Engineer

UNION TEXAS PETROLEUM

1300 WILCO BUILDING, MIDLAND, TEXAS 79701

MONTHLY FLUID INJECTION REPORT (Proj

YEAR 1980 (Project) (Field/Pool)

Tark Land			(0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	Sei	Seven Rivers	()ueen		(Field/Pool)	
All Indian	JAN.	FEB.	MAR.	APR.	МАУ	JUNE	AJULY	AUG.	SEPT.	0cT.	NOV.	DEC
PRODUCTION ()									· c			
	33,449	31,291	33,449	32,370	28,396		28. 396					
Produced	27,208	24.801	25.352	24.174	24.998	23, 253	24					
Daily Average	878	855		806		775						
Cumulative Since Unitization	2,859,876	2.884.677	2.910,029	2.934.203	2,959,201	2,982,454	3,006,4					
WATER (BBLS.) Produced	130.737	114.360	124.703	109.050		1,8,971	123,961		∢			
Daily Average	4,217	3,943	4.023	3,635	3,950		ı ع					
Percent Total Fluid	83%	82%	83%	82%			1					
Cumulative Since Unitization	6,262,763	6,377,123	6,501,826	6,610,876	6.733	6.852,285	6,976	1				
Produced	28.550	27,336	28,416	28,242	30.708							
.GOR	1,049	1,102	1,121	1,168	1.228	1,337	1,372					
. Cumulative Since Unitization	3,057,211	3,084,547	3,112,963	3,141,205	3.171.913		W					
INJECTION WATER (BBLS.)			-				-			· · · · · · · · · · · · · · · · · · ·		
Injected	274,179	100,000	360,090	ےاد	120, 202	476,007	220					
Cumulative Since Unitization	34,403,665	34,692,095	35,017,688	35,292,774	35,575,39835		36.					
WELL STATUS										•		
Producing /	48	48	48	48	48	48	48					
Producing Inactive		_			_,							
_	39	39	39	39	39		39					
Ina	9	. b	б	6	6	5						
Water Supply Active					1							
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EFFECTIVE DATE OF UNIT 3-1-71		ı							-			
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WATER INJECTION BEGAN 5-23-72

CUMULATIVE OIL PRODUCTION TO UNITIZATION

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Lease: Judy, Well No. 1

Poll Name: Langlie-Mattix Seven Rivers Queen

Fee Lease

Location: Unit Letter C, 990' FNL & 1980' FWL of Section 7, Township 25-S,

Range 37-E, Lea County, New Mexico

Spd: 1-24-74

Comp. 4-2-74

T.D. 3617'

P.B.T.D. 3600'

Elev. 3158' GL

12-1/4" hole, 8-5/8" @ 348' w/175 sx.

7-7/8" hole, 4-1/2" @ 3617' w/325 sx.

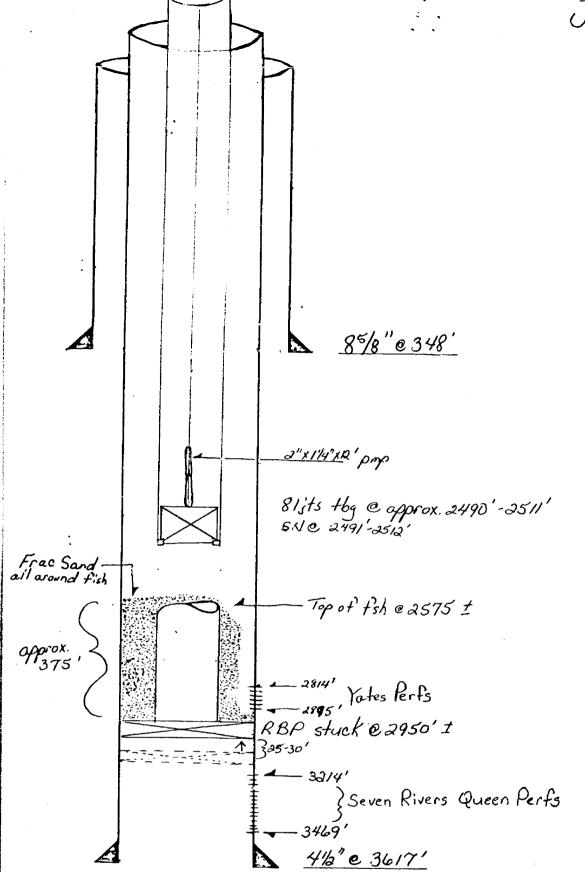
'2-3/8" Tbg. 2490' - 2511'

Producing Perfs 2814' - 2895'

1. Perf (Seven Rivers Queen) 3214' - 3469' w/15 shots (overall), Acidized with 1000 gals; Fracture treated w/30,700 gals gelled fresh wtr. & 40,000 # sand, Ran pmp & rods & hung well on production.

In 1977 well dead, Ran Gamma Ray & Collar Log 2650' - 3460'. Perf'd 2814' - 2895'. CO₂ acid & sand frac (2814'-2895') max psi 3900, SI 1000 psi

Ran RBP & 94 jts. tbg., loaded tbg. to clean around BP. Picked up & unseated BP moved 25'-30' & tbg. parted. WIH with overshote & bumper sub, caught fish but couldn't jar loose, POOH. WIH & cut fish @ 2575'. WIH w/seatnipple & 81 jts. tbg. Ran Pmp & rods & hung well on prod.

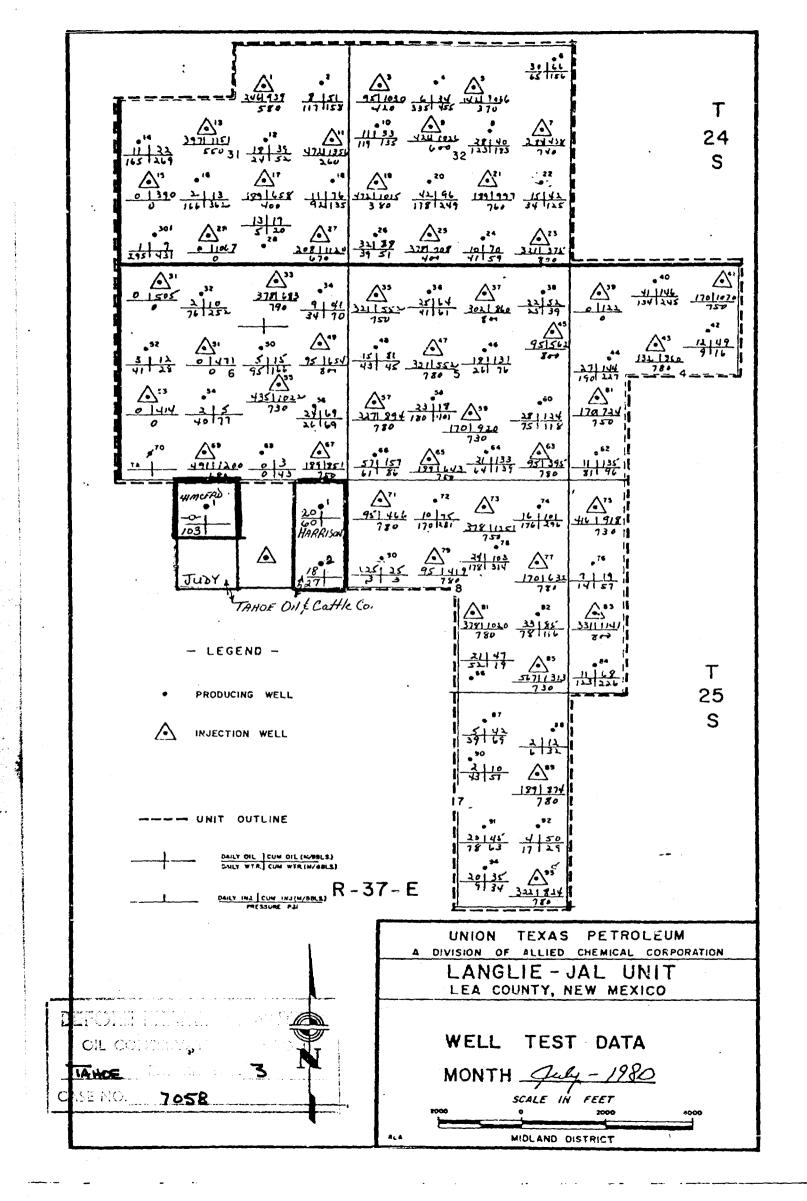


Judy No. 1
Lea County, New Mexico
Langlie-Mattix Seven Rivers Queen
C, S-7, T-25-S, R-37-E

Production Data

Cum. to 12-31-79 14,655 0il

1980	Cil (bbls)	Gas (MCF)	Wtr.(obls)
January	-0-	1580	3030
February	-0-,	1374	4799
March	-0-	1357	3038
April	-0-	1388	3020
May	-0-	1432	3266
June	-0-	1225	3190
July	-0-	1264	3182
August	-0-	1403	3190



GAS-OIL RATIO TESTS

C-116 Revised 1-1-65

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)permor Tahoe Oil & Cattle Co.			, P000	Langlie		Mattix Seven		Rivers	Que	g -	County	Lea					
dland,	Texas 7	79702					Sat	TYPE OF		Sch •	Scheduled [X]		Completion	tion	[Sp. • 0	Special
	WELL		۲٥٥	LOCATION		DATEOF		CHOKE	7	BG.	DAILY	LEX STH	g	õp.	PROD. DURING	TEST	GAS - OIL
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Ne well will be assigned an allowable greater than the amount of oil produced on the official test. During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is lecated by more than 35 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission.	wable great wall shall tor is enco	er then	the amo	a rate	If produc	sed on the offic eeding the top ile 25 percent t	iel te unit s	et. Howable	% for th	900 L	n which wal	ý.	I hereby certify is true and complication and belief.	eby ce and co	rtify than mplete if	t the abov	I hereby certify that the above information is true and complete to the best of my knowledge and belief.
Gas volumes must be reported in MCF measured at a pressure base of 15,025 pale and a will be 0.60.	MCF meas	Ered es	e pree	sure bas	• bf 15.	025 pale and a	de.	temperature of 60° F.	· * * * * * * * * * * * * * * * * * * *		Specific gravity base	:					-
Report ensing pressure in list of tubing pressure for any well producing through casing. Well original and one copy of this report to the district office of the New Mexico Oli Conservation Commis	tubing pres	o the d	istrict o	ell produ	the Ne	ough casing. w Mexico Oil C	9	vetton C		ion in •	ilon in accordance with	\$ 	7		ز کر ا ا		
**************************************		٠.						#2 <u>.</u>	•				Petr	Petroleum	Eng	(Signature) jineer	,
												•	March	4,	1980	(Title)	
															,1	(Date)	

(Date)

UNION TEXAS PETROLEUM

1300 WILCO BUILDING, MIDLAND, TEXAS 79701

Seven Rivers Queen	CANGCIE-JAC UNII	MONTHLY FLUID INJECTION REPORT
(Field/Pool)	(Project)	YEAR 1980

1 1 1 mm		n 0	5	ADD .	55 C	TINE	 	AIG	SEPT	007	NOV	DEC.
PRODUCTION ()						-						
Allowable	33,449	31,291	33,449	32,370	28,396		28. 396					
Produced	27.208	24,801	25.352	24,174	24.998							
Daily Average	378	855		806							-	
Cumulative Since Unitization	2.859.376	2.884,677	2.910.	2.934.	b	2,982,454	3.006.459					
WATER (BBLS.)	130_737	114.360		109.050	5	118,971	123,961		ર્લ			
Daily Average	4,217	3,943	1 1		3,950	3,966						
Percent Total Fluid	83%	82%				84%						
Cumulative Since Unitization	6,262,763	6,377,123			6.733.314	6.852,285		1	+			
Produced	28,550	27,336	28,416				32,923					
,GOR	1,049	1,102	1,121	1,168		1,337			-	+		
. Cumulative Since Unitization	3,057,211	3,084,547	3,112,963	ω	W		- 1					
INJECTION WATER (BBLS.) Injected	324,178	288,430	325,593	275,086	282,624	265,924	ယ္					
Daily Average	10.457	9,946	10.503	9.170	9,117	8,864	Jp.					
Cumulative Since Unitization	34,403,665	34,692,095	35,017,688	688 35,292,774	35,575,398	841.322	36,168,039					
WELL STATUS Producing Active	48	48	48	48	48	4,8	. 48					
Producing Inactive			1							1		
	39	39	39	39	39	40	55		1			
Injection Inactive	6	9	9	g	6	ı o	0					
			<u> </u>									
Water Supply Inactive	0	0	0	0	0	U					,	

EFFECTIVE DATE OF UNIT 3-1-71

CUMULATIVE OIL PRODUCTION TO UNITIZATION

WATER INJECTION BEGAN 5-23-72

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Lease: Harrison, Well No. 1

Pool Name: Langlie-Mattix - Seven Rivers Queen

Fee Lease

Location: Unit Letter A, 660' FNL & 860' FEL of Section 7, Township 25-S,

Range 37-E

Spud: 12-8-73

Complete: 3-5-74

T.D. 3642' PBTD 3600'

Elev. 3174' GL

12-1/4" hole, 8-5/8" @ 357' w/175 sx.

7-7/8" hole, 4-1/2" @ 3636' w/375 sx.

2-3/8" tbg. @ 3515'

Perfs: 3257' - 3513' w/12 shots (overall)

 Perf'd Seven Rivers Queen 3257' - 3513' w/12 shots, Acidized with 1000 gals 15% & fracture treated w/30,000 gals gelled fresh wtr. & 40,000# sand. Ran pmp & rods & hung well on prod.

Harrison #/ 85/8"e 357' Seven Rivers Queen Perfs 2"x1"x" x12 pmp 248" Tbg @ 3515'

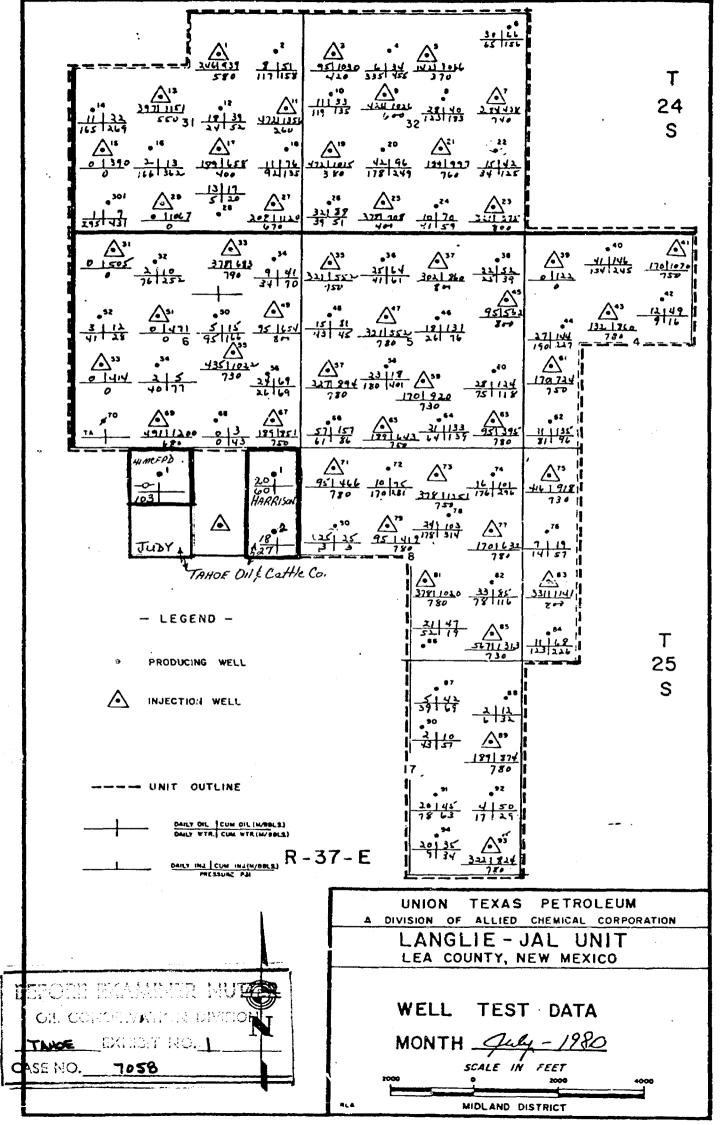
4½"e 3636'

Harrison Well No. 1
Lea County, New Mexico
Langlie-Mattix Seven Rivers Queen
A, S-7, T-25-S, R-37-E

Production Data

Cum. to 12-31-79 40,367 0i1

1980	Oil (bbls)	Gas (MCF)	Wtr.(bbls)
January	825	395	1151
February	726	356	1013
March	685	338	963
April	632	338	1000
May	742	326	1111
June	626	319	1100
July	550	305	1108
August	704	330	1114



NEW MEXICO OIL CONSERVATION COMMISSION GAS-OIL RATIO TESTS

Revised 1-1-65

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P. O. Box 3084, Midland, 1	Texas 7	79702	;			4-4	TEST	TYPE OF	Sch	Scheduled [X]		Completion	etion [Special	֡֟֟ <u>֚</u>
	WELL		LOC/	LOCATION		DATEOF	rus	CHOKE	TBG.	•	LENGTH	P	õo.	PROD. DURING	TEST	GAS - OIL
C E X SM E	, O	c	•	4	70	TEST	STAT	SIZE	PRESS.	APLE ALLOW-	HOURS	WATER	GRAV.	\$788 01℃	M.C.F.	CU.FT/BBL
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No well will be assigned an allowable greater than the amount of oil produced on the official test.

During gas-oil rails test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well to located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission.

will be 0.60. Cae volumes must be reperied in MCF measured at a pressure base of \$5.025 pale and a temperature of 60° F. Specific gravity base

Report casing preseure in lieu of tubing pressure for any well producing through casing.

Kell original and one copy of this report to the district office of the New Mexico Oli Conservation Commission in accordance with Rule 301 and appropriate pool rules.

I hereby certify that the above information is true and complete to the best of my knowledge and belief. March 4, 1980 Petroleum Engineer (Signature)

(Date)

UNION TEXAS PETROLEUM

1300 WILCO BUILDING, MIDLAND, TEXAS 79701

MONTHLY FLUID INJECTION REPORT

EFFECTIVE DATE OF UNIT3-1-71	7	Water Supply Active	Injection Inactive	Injection Active	Producing Inactive		WELL STATUS	Cumulative Since Unitization	Daily Average	Injected	INJECTION WATER (BRIS.)		 Cumulative Since Unitization 	,GOR	Produced	GAS (MCF)		Percent Total Fluid	Daily Average	Produced	1	Cumulative Since Unitization	age	Produced	Allowable	OIL (BBLS.)	The Contract of the Contract o
	0		9	39]	48		34,403,665	10,457	324,178			3,057,211	.049	28,550	_	6 262 763	838	4.217	130.737		2.859.876		27,208	33,449		JAN.
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WATER INJECTION BEGAN 5-23-72

CUMULATIVE OIL PRODUCTION TO UNITIZATION.

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Lease: Harrison, Well No. 2

Pool Name: Langlie-Mattix Seven Rivers Queen

Fee Lease

Location: Unit Letter H, 1980' FNL & 660' FEL of Section 7, Township 25-S,

Range 37-E

Spud: 5-24-74

Complete: 9-15-74

T.D. 3610'

P.B.T.D. 3570'

Elev. 3147'

12-1/4" hole, 8-5/8" @ 335' w/175 sx.

7-7/8" hole, 4-1/2" @ 3602' w/325 sx.

2-3/8" tbg. @ 3565'

Perfs: 3127' - 3504' w/14 shots (overall)

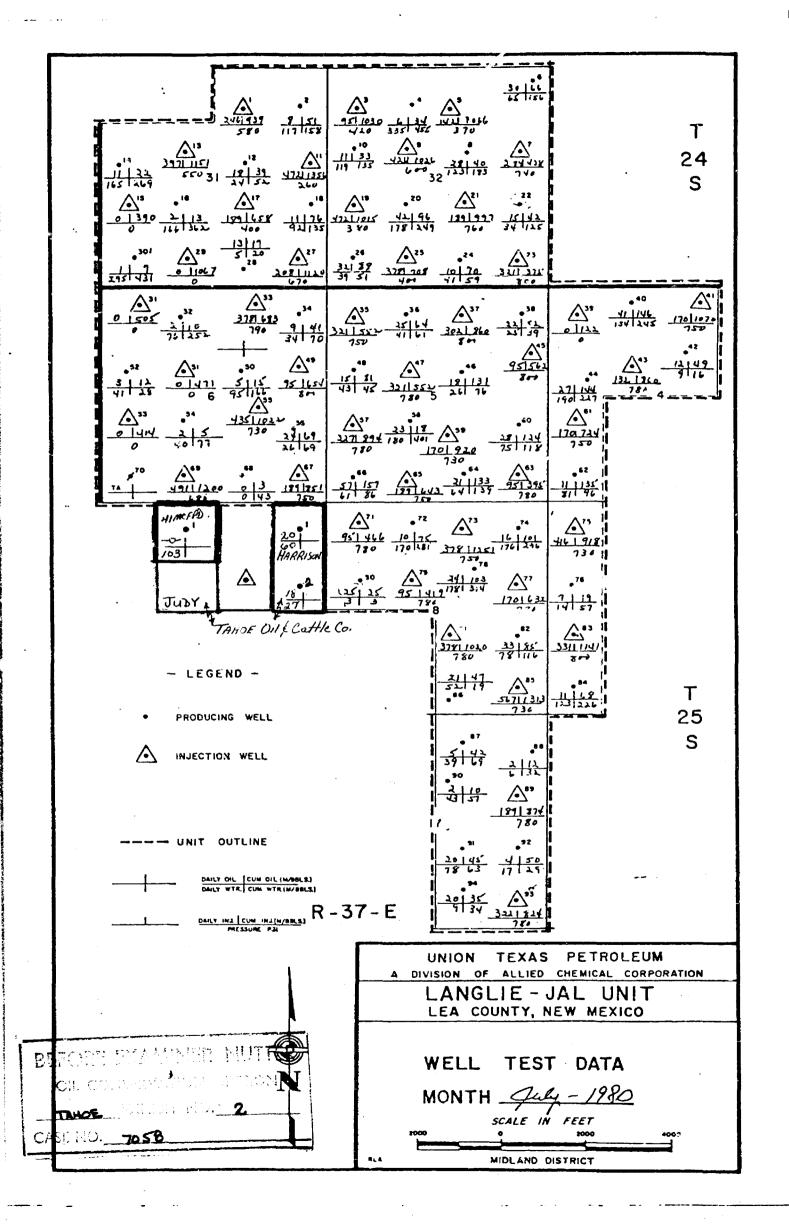
Perf'd Seven Rivers Queen 3127' - 3504' w/14 shots, Acidized w/2000 gals 15% & fracture treated w/28,000 gals gelled fresh wtr. & 40,000# sand. Ran pmp & rods & hung well on prod.

Harrison #2 85/8" e 335' 250 an Alburt 3127' Seven Rivers Queen Perfs 177 has Kind and 2"X1"x" X /2 pmp 23/8"Tby e 35651

Harrison Well No. 2
Lea County, New Mexico
Langlie-Mattix Seven Rivers Queen
H, S-7, T-25-S, R-37-E

Production Data
Cum. to 12-31-79 30,540 0il

<u>1980</u>	Oil (bbls)	Gas (MCF)	Wtr.(bbls)
January	406	323	942
February	357	291	828
March	338	277	778
April	312	276	811
May	365	266	909
June	308	261	900
July	271	249	907
August	347	270	911



NEW MEXICO OIL CONSERVATION COMMISSION GAS-OIL RATIO TESTS

C-116 Revised 1-1-65

Tahoe Oil & Cattle Co.			P001	Langlie		Mattix Seven Rivers	22.		Queen	င်္ဂ	County				-	
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	WELL		רסכ	LOCATION		DATEOF		CHOKE	ВТ		10 H	P	00.0	PROD. DURING	TEST	GAS - OIL
L HASE NAME	z o.	С	۵	-	2	TEST	STAT	SIZE	ס ע	ABLE	7637 X0URB	WATER BBLS.	GRAV.	8108 OIC	M.C.F.	CU.FT/BBL
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During gas-eil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent, Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission.

will be 0.60. Gas volumes must be reported in MCF measured at a pressure base of 15,025 pais and a temperature of 60° F. Specific gravity base

Report casing pressure in lieu of tubing pressure for any well producing through cacing.

Mell original and one copy of this report to the district office of the New Mexico Oli Conservation Commission in accordance with Rule 301 and appropriate pool rules.

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

(Signature)

Petroleum Engineer

(Tide)

(Date)

UNION TEXAS PETROLEUM

1300 WILCO BUILDING, MIDLAND, TEXAS 79701

MONTHLY FLUID INJECTION REPORT CANGLIE-JAL UNII Seven Rivers Queen	
(Project) (Field/Pool)	

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						6 852 285	6 733 314	6,610,876	6.50	6,377,123	6,262,763	GAS INCE STITE OFFICERON
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CUMULATIVE OIL PRODUCTION TO UNITIZATION_

WATER INJECTION BEGAN 5-23-72

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COMPLETION HISTORY

Lease: Judy, Well No. 1

Poll Name: Langlie-Mattix Seven Rivers Queen

Fee Lease

Location: Unit Letter C, 990' FNL & 1980' FWL of Section 7, Township 25-S,

Range 37-E, Lea County, New Mexico

Spd: 1-24-74 Comp. 4-2-74

T.D. 3617' P.B.T.D. 3600'

Elev. 3158' GL

12-1/4" hole, 8-5/8" @ 348' w/175 sx.

7-7/8" hole, 4-1/2" @ 3617' w/325 sx.

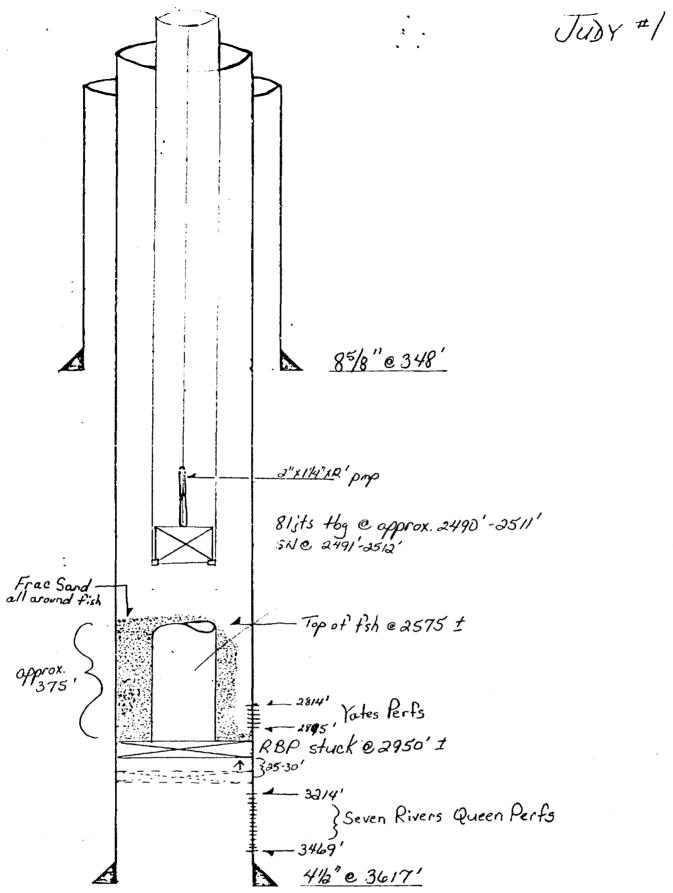
2-3/8" Tbg. 2490' - 2511'

Producing Perfs 2814' - 2895'

Perf (Seven Rivers Queen) 3214' - 3469' w/15 shots (overall), Acidized with 1000 gals; Fracture treated w/30,700 gals gelled fresh wtr. & 40,000 # sand, Ran pmp & rods & hung well on production.

In 1977 well dead, Ran Gamma Ray & Collar Log 2650' - 3460'. Perf'd 2814' - 2895'. CO₂ acid & sand frac (2814'-2895') max psi 3900, SI 1000 psi

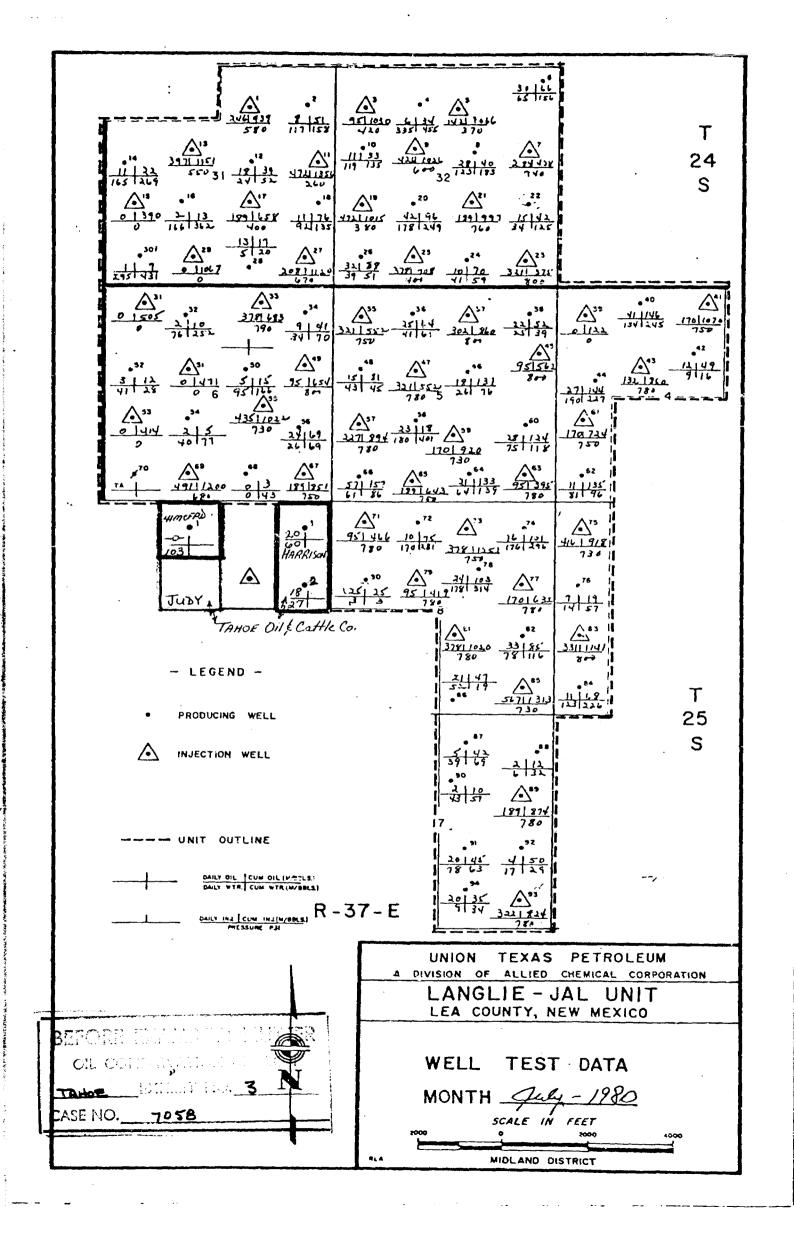
Ran RBP & 94 jts. tbg., loaded tbg. to clean around BP. Picked up & unseated BP moved 25'-30' & tbg. parted. WIH with overshots & bumper sub, caught fish but couldn't jar loose, POOH. WIH & cut fish @ 2575'. WIH w/ seatnipple & 81 jts. tbg. Ran Fmp & rods & hung well on prod.



Judy No. 1
Lea County, New Mexico
Langlie-Mattix Seven Rivers Queen
C, S-7, T-25-S, R-37-E

Production Data
Cum. to 12-31-79 14,655 011

<u>1980</u>	Oil (bbls)	Gas (MCF)	Wtr.(bbls)
January	-0-	1580	
February		1500	3030
·	-0-	1374	4799
March	-0-	1357	3038
April	-0-	1000	3030
W-	•	1388	3020
May	-0-	1432	3266
June	-0-		3200
July	-0-	1225	3190
•	-0-	1264	3182
August	-0-		
	-0-	1403	3190



NEW MEXICO DIL CONSERVATION COMMISSION GAS-OIL RATIO TESTS

C-116 Revised 1-1-65

Tahoe Oil & Cattle Co.			7 Pool	Langlie	ie Ma	Mattix Seven Rivers	Ri	vers Qu	reen -	<u>ဂ</u> ္ဂ	County Lea				·	
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No well will be assigned an allowable greater than the amount of oil produced on the official test.

During ges-eil ratio test, each wall shall be produced at a rate not axceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission.

Goe volumes must be reported in MCF measured at a pressure base of 15,025 psia and a temperature of 50° F. Specific gravity base will be 0.60.

Report cooling pressure in lieu of tubing pressure for any well producing through casing.

Mail original and one copy of this report to the district office of the New Mexico Oli Conservation Commission in accordance with Rule 301 and appropriate pool rules.

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

(Signature)
Petroleum Engineer
(Tiue)
March 4, 1980

(Date)

UNION TEXAS PETROLEUM

1300 WILCO BUILDING, MIDLAND, TEXAS 79701

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EFFECTIVE DATE OF UNIT 3-1-71

CUMULATIVE OIL PRODUCTION TO UNITIZATION

WATER INJECTION BEGAN 5-23-72

Dockets Nos. 36-80 and 37-80 are tentatively set for November 12 and 25, 1980. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - WEDNESDAY - OCTOBER 29, 1960

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 7055: (This case will be continued to the November 25 hearing.)

Application of Union Oil Company of California for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the Eaves-Lea Unit Area, comprising 2209 acres, more or less, of State and Federal lands in Township 21 South, Ranges 32 and 33 East.

- CASE 7056: Application of Cetty Oil Company for the extension of vertical limits of the Langlie Mattix Pool.

 Lea County, New Mexico. Applicant, in the above-styled cause, seeks the contraction of the vertical limits of the Jalmat Pool and the upward extension of the vertical limits of the Langlie Martix Pool to a depth of 3540 feet, subsurface, under the NW/4 SW/4 of Section 3, Township 24 South, Range 36

 East.
- CASE 7057: Application of Doyle Hartman for the extension of vertical limits of the Langlie Mattix Pool, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the contraction of the vertical limits of the Jalmat Pool and the upward extension of the vertical limits of the Langlie Mattix Pool to the following depths underlying the following 40-acre tracts in Township 24 South, Range 37 East: SE/4 SE/4 of Section 30: 3364 feet; NE/4 SE/4 of Section 30: 3389 feet; and SE/4 SW/4 of Section 20: 3390 feet.
- Application of Tahoe Oil & Cattle Company for downhole commingling, Lea County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for the downhole commingling of Jalmat and Langlie Mattix production in the wellbores of its Harrison Wells Nos. 1 and 2 located in Units A and H. respectively, and its Judy Well No. 1 located in Unit C, all in Section 7, Township 25 South, Range 37 East.
- CASE 7059: Application of Gulf Oil Corporation for the extension of vertical limits of the Langlie Mattix Pool, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the contraction of the vertical limits of the Jalmat Pool and the upward extension of the vertical limits of the Langlie Mattix Pool to a depth of 3406 feet under the W/2 SW/4 of Section 30, Township 24 South, Range 37 East.
- CASE 7060: Application of Mobil Producing Inc. for downhole commingling, Lea County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for the downhole commingling of Jalmat and Langlie Mattix production in the wellbores of its Humphrey Queen Unit Wells Nos. 13 in Unit I of Section 4 and 16 in Unit K of Section 3 and its Langlie Mattix Queen Unit Well No. 10 in Unit C of Section 15, all in Township 25 South, Range 37 East.
- CASE 7061: Application of Bettis, Boyle & Stovall for downhole commingling, Lea County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for the downhole commingling of Jalmat and Langlie Mattix production in the wellbore of its Justis B Well No. 8 located in Unit G of Section 20, Township 25 South, Range 37 East.
- CASE 7062: Application of El Paso Natural Gas Company for downhole commingling, Lea County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for the downhole commingling of Jalmat and Langlie Mattix production in the wellbore of its Carlson Federal Well No. 2 located in Unit N of Section 23, Township 25 South, Range 37 East.
- Application of Lewis Burleson for the extension of vertical limits of the Langlie Mattix Pool, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the contraction of the vertical limits of the Jalmat Pool and the upward extension of the vertical limits of the Langlie Mattix Pool to a depth of 3150 feet under the SE/4 NW/4 of Section 22, Township 25 South, Range 37 East.
- CASE 7041: (Continued from October 8, 1980, Commission Hearing)

Application of John Yuronka for the extension of vertical limits of the Langlie Mattix Pool, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the contraction of the vertical limits of the Jalmat Pool and the upward extension of the vertical limits of the Langlie Mattix Pool to a depth of 3,408 feet, subsurface, under the NW/4 SW/4 of Section 17, Township 24 South, Range 37 East.

CASE 7064: Application of El Paso Natural Gas Company for an unorthodox location and simultaneous dedication, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the simultaneous dedication of a previously approved 440-acre proration unit comprising the S/2, S/2 NW/4, and NW/4 NW/4 of Section 33, Township 25 South, Range 37 East, Jalmat Gas Pool, to its Gregory Fed. Well No. 1 located in Unit J and its Gregory Fed. A Well No. 2, at an unorthodox location in the center of Unit L of said Section 33.

- CASE 7065: Application of El Paso Natural Gas Company for twelve non-standard proration units, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval for the establishment of eight non-standard proration units for Pictured Cliffs wells to be drilled in the W/2 of partial Sections 6, 7, 13, 19, 30 and 31 of Township 30 North, Range 4 West, and four non-standard proration units for Pictured Cliffs wells in partial Sections 7, 8, and 9 of Township 28 North, Range 4 West.
- Application of Conoco Inc. for a dual completion, Lea County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for the dual completion of its Britt "B" Well No.

 27 located in Unit G of Section 15, Township 20 South, Range 37 East, to produce oil from the Weir
 Drinkard or an undesignated Blinebry pool and an undesignated Abo pool.
- CASE 7067: Application of Conoco Inc. for a dual completion, Eddy County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for the dual completion of its Dagger Draw Com.

 Well No. 4 located in Unit J of Section 25, Township 19 South, Range 24 East, to produce oil from the North Dagger Draw-Upper Penn Pool and gas from an undesignated Morrow pool.
- CASE 7068: Application of Conoco Inc. for a dual completion and an unorthodox well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion of its Penny Federal Com. Well No. 2 at an unorthodox location 1650 feet from the North line and 1980 feet from the East line of Section 23, Township 20 South, Range 24 East, to produce oil from the South Dagger Draw-Upper Penn Pool and gas from an undesignated Morrow pool.
- CASE 7069: Application of Anadarko Production Company for an unorthodox gas well location, Eddy County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for the unorthodox location of a Morrow test well to be drilled 660 feet from the South and East lines of Section 4, Township 19 South, Range 25 East, the S/2 of said Section 4 to be dedicated to the well.
- CASE 7070: Application of Tesoro Petroleum Corporation for a pilot caustic flood project, McKinley County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a one-acre pilot caustic flood project in the Hospah Field by the injection of caustic fluid into the Seven Lakes and of the Upper Hospah Field at an approximate depth of 300-500 feet through four injection wells in Unit K of Section 1, Township 17 North, Range 9 West.
- Application of Jake L. Hamon for an unorthodox well location and simultaneous dedication, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the simultaneous dedication of a 640-acre proration unit comprising all of Section 17, Township 20 South, Range 36 East, North Osudo-Morrow Pool, to its Amerada Federal Well No. 2 located in Unit F and its Amerada Federal Well No. 3, to be drilled at an unorthodox location 1650 feet from the South line and 660 feet from the East line of said Section 17.
- CASE 6668: (Reopened and Readvertised)

In the matter of Case 6668 being reopened pursuant to the provisions of Order No. R-6139 which order promulgated temporary special rules and regulations for the South Culebra Bluff-Bone Spring Pool in Eddy County, New Mexico, including a provision for 80-acre spacing units. Operators in said pool may appear and show cause why the pool should not be developed on 40-acre spacing units.

CASE 7005: (Continued from September 17, 1980, Examiner Hearing)

Application of Sol West III for an NGPA determination, Eddy County, New Mexico.

Applicant, in the above-styled cause, seeks a new onshore reservoir determination in the Morrow formation for his Turkey Track-Morrow Sand Well No. 1 in Unit I of Section 26, Township 18 South, Range 28 East.

- CASE 7072: Application of Enserch Exploration, Inc. for pool creation and special pool rules, Roosevelt County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new Pennsylvanian oil pool for its Enserch Amoco State Well No. 1 located in Unit L of Section 16, Township 4 South, Range 33 East, and the promulgation of special pool rules therefor, including a provision for 80-acre spacing.
- Application of Enserch Exploration, Inc. for pool creation, temporary special pool rules, and assignment of a discovery allowable, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new Fusselman oil pool for its J. G. O'Brien Well No. 1 located 1980 feet from the North line and 660 feet from the West line of Section 31, Township 7 South, Range 29 East, with special rules therefor, including provisions for 80-acre spacing, a limiting gas-oil ratio of 3000 to one and special well location requirements providing for the drilling of wells within 150 feet of the center of a quarter-quarter section. Applicant further seeks approval of a 74.24-acre provation and spacing unit and a discovery allowable for said J. G. O'Brien Well No. 1.

CASE 7074: Application of Enserch Exploration, Inc. for pool creation, an unorthodox gas well location, and non-standard proration unit, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new Fusselman gas pool for its J. G. O'Brien Well No. 2 located at an unorthodox location 660 feet from the South and West lines of Section 30, Township 7 South, Range 29 East, to be dedicated to a 308.96-acre non-standard unit comprising the W/2 of said Section 30.

CASE 6822: (Continued from October 1, 1980, Examiner Hearing)

In the matter of Case 6822 being reopened pursuant to the provisons of Order No. R-6293 which order created the West Double X-Wolfcamp Gas Pool as a retrograde gas condensate pool and set special production limitations therein. Operator(s) may appear and present evidence to establish the true nature of the reservoir and proper rates of withdrawal therefrom.

CASE 6648: (Continued from October 1, 1980, Examiner Hearing)

In the matter of Case 6648 being reopened pursuant to the provisions of Order No. R-6124 which order promulgated temporary special rules and regulations for the North Caprock-Mississippian Pool in Lea County, New Mexico, including a provision for 160-acre spacing and a 4000 to one gas-oil ratio limitation. Operators in said pool may appear and show cause why the pool should not be developed on 40-acre spacing with a 2000 to one GOR.

CASE 7045: (Continued from October 15, 1980, Examiner Hearing)

Application of Texas Oil & Gas Corp. for downhole commingling, Eddy County, New Mexico.

Applicant, in the above-styled cause, seeks approval for the downhole commingling of Atoka and Upper
Morrow production in the wellbore of its Superior Federal Com. Well No. 1 located in Unit G of Section 8, Township 20 South, Range 29 East.

CASE 7024: (Continued from October 15, 1980, Examiner Hearing)

Application of Southland Royalty Company for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Pennsylvanian formation underlying the E/2 of Section 35, Township 18 South, Range 29 East, to be dedicated to a well to be drilled at a standard location thereon. 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 7038: (Continued from October 15, 1980, Examiner Hearing)

Application of Natura Energy Corporation for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the San Andres formation underlying the NE/4 NE/4 of Section 6, Township 19 South, Range 39 East, to be dedicated to a well to be delicated to a well to be delicated to a well to be delicated to a standard location thereon. Also to be considered will be the cost of drilling and computing 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.

Docket No. 35-80

DOCKET: COMMISSION HEARING - FRIDAY - OCTOBER 31, 1980

OIL CONSERVATION COMMISSION - 9 A.M. - ROOM 205 STATE LAND OFFICE BUILDING, SANIA FE, NEW MEXICO

CASE 7075: Application of Benson-Montin-Greer Drilling Corporation for the amendment of pool rules, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of the Special Rules and Regulations for the West Puerto Chiquito-Mancos Oil Pool as promulgated by Order No. R-2565-B and amended by Order No. R-6469, to require that the locations of wells in said pool be at least 1650 feet from the outer boundary of the spacing and proration unit, and that the drilling of wells be controlled so as to allow no more than a 330-foot horizontal deviation from the surface location. Further, that the location of wells on certain specified non-standard proration units approved by Order No. R-6469 should be no closer than 660 feet to the outer boundary of the non-standard unit nor closer than 330 feet to a quarter section line. Said specified non-standard units are the two 640-acre units in Township 24 North, Range 1 West; the two 480-acre units in Township 24 North, Range 1 East; the four 640-acre units in Township 26 North, Range 1 West; the 640-acre unit in Township 26 North, Range 1 East; and the two 640-acre units, the three 600-acre units, and the 400-acre unit, all in Township 27 North, Range 1 West. Applicant further seeks an administrative procedure whereby unorthodox locations could be approved upon receipt of written waivers from all offsetting operators being "crowded" by the unorthodox location.

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CAMPBELL AND BLACK, P.A.

JACK M. CAMPBELL BRUGE D. BLACK MICHAEL B. CAMPBELL WILLIAM F. CARR POST OFFICE BOX 2208

JEFFERSON PLACE

SANTA FE, NEW MEXICO 87501

FELEPHONE (505) 988-4421

September 5, 1980

Mr. Joe D. Ramey
Division Director
Oil Conservation Division
New Mexico Department of Energy
and Minerals
Post Office Box 2088
Santa Fe, New Mexico 87501

SEP 0 3 1980

OIL CONSTRUCTION DIVISION SANTA FE

Case 7058

Re: Application of Tahoe Oil & Cattle Company

for Downhole Commingling, Lea County, New Mexico

Dear Mr. Ramey:

Enclosed in triplicate is the application of Tahoe Oil & Cattle Company in the above-referenced matter.

The applicant requests that this matter be included on a docket for an examiner hearing at an early date.

Very truly yours,

William F. Carr

WFC:1r

Enclosures

cc: Mr. K. A. Freeman

BEFORE THE

OIL CONSERVATION DIVISION

NEW MEXICO DEPARTMENT OF ENERGY AND MINERALS

IN THE MATTER OF THE APPLICATION
OF TAHOE OIL & CATTLE COMPANY FORE CETVED GASE
DOWNHOLE COMMINGLING, LEA COUNTY
NEW MEXICO.

SEP 0 5 1980

APPLICATION DIVISION

Comes now TAHOE OIL & CATTLE COMPANY, by its undersigned attorneys, and hereby makes application to the Oil Conservation Division for downhole commingling and in support thereof, respectfully states:

- 1. Applicant is the operator of the Harrison No. 1 Well located in Unit A, the Harrison No. 2 Well located in Unit H, and the Judy No. 1 Well located in Unit C, all in Section 7, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico
- 2. Applicant proposes to commingle in the wellbore in each of said wells production from the Langlie-Mattix Pool and the Jalmat Gas Pool.
- 3. This request for downhole commingling is made to comply with the Commission's directive of August 7, 1980, to file applications to obtain Oil Conservation Commission approval for downhole commingling for certain wells which, according to Commission records, may be completed out of zone.
- 4. Approval of this application will permit the efficient operation of said wells, will prevent waste and will not violate correlative rights.

WHEREFORE, Applicant prays this application be set for hearing before the Commission or one of its duly appointed examiners and that, after notice and hearing, as required by law, the Commission enter its Order granting this application and making such other and further provisions as may be proper in the premises.

Respectfully submitted,

CAMPBELL AND BLACK, P.A.

Post Office Box 2208

Santa Fe, New Mexico 87501 Attorneys for Applicant

BEFORE THE

OIL CONSERVATION DIVISION

NEW MEXICO DEPARTMENT OF ENERGY AND MINERALS

IN THE MATTER OF THE APPLICATION
OF TAHOE OIL & CATTLE COMPANY FOR SEP 0 5 1980 CASE
DOWNHOLE COMMINGLING, LEA COUNTY
NEW MEXICO.
OIL CONSURVATION DIVISION
SANIA FE

APPLICATION

Comes now TAHOE OIL & CATTLE COMPANY, by its undersigned attorneys, and hereby makes application to the Oil Conservation Division for downhole commingling and in support thereof, respectfully states:

- 1. Applicant is the operator of the Harrison No. 1 Well located in Unit A, the Harrison No. 2 Well located in Unit H, and the Judy No. 1 Well located in Unit C, all in Section 7, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico.
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- 3. This request for downhole commingling is made to comply with the Commission's directive of August 7, 1980, to file applications to obtain Oil Conservation Commission approval for downhole commingling for certain wells which, according to Commission records, may be completed out of zone.
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WHEREFORE, Applicant prays this application be set for hearing before the Commission or one of its duly appointed examiners and that, after notice and hearing, as required by law, the Commission enter its Order granting this application and making such other and further provisions as may be proper in the premises.

Respectfully submitted,

CAMPBELL AND BLACK, P.A.

Post Office Box 2208

Santa Fe, New Mexico 87501 Attorneys for Applicant

BEFORE THE

OIL CONSERVATION DIVISION

NEW MEXICO DEPARTMENT OF ENERGY AND MINERALS

IN THE MATTER OF THE APPLICATION
OF TAHOE OIL & CATTLE COMPANY FOR
DOWNHOLE COMMINGLING, I.EA COUNTY,
NEW MEXICO.

SEP 0 5 1980

APPLICATION DIVISION

APPLICATION SERVATION DIVISION SANTA FE

Comes now TAHOE OIL & CATTLE COMPANY, by its undersigned attorneys, and hereby makes application to the Oil Conservation Division for downhole commingling and in support thereof, respectfully states:

- 1. Applicant is the operator of the Harrison No. 1 We'll located in Unit A, the Harrison No. 2 Well located in Unit H, and the Judy No. 1 Well located in Unit C, all in Section 7, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico.
- 2. Applicant proposes to commingle in the wellbore in each of said wells production from the Langlie-Mattix Pool and the Jalmat Gas Pool.
- 3. This request for downhole commingling is made to comply with the Commission's directive of August 7, 1980, to file applications to obtain Oil Conservation Commission approval for downhole commingling for certain wells which, according to Commission records, may be completed out of zone.
- 4. Approval of this application will permit the efficient operation of said wells, will prevent waste and will not violate correlative rights.

WHEREFORE, Applicant prays this application be set for hearing before the Commission or one of its duly appointed examiners and that, after notice and hearing, as required by law, the Commission enter its Order granting this application and making such other and further provisions as may be proper in the premises.

> Respectfully submitted, CAMPBELL AND BLACK, P.A.

Post Office Box 2208 Santa Fe, New Mexico 87501 Attorneys for Applicant

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. 7058
Crder No. <u>R-6525</u>
APPLICATION OF TAHOE GIL & CATTLE COMPANY
FOR DOWNHOLE COMMINGLING, LEA
ORDER OF THE DIVISION:
This cause came on for hearing at 9 a.m. on October 29
19 80 , at Santa Fe, New Mexico, before Examiner Daniel S.
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NOW, on this day of, 19 80 , 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, Tahoe Oil & Cattle Company, is
the owner and operator of the Harrison Wells Nos. 1 and 2 and H, respectively, and its Judey Well No. 1
located in Units A patricular exercision xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Range 37 Eact , NMPM, Township 25 South Revice.
(3) That the applicant seeks authority to commingle
Jalmat and Langlie Mattix production
within the wellbore of the above-described well.

7058

- (4) That the vertical limits of the Jalmat Pool as defined by Order No. R-520, dated August 12, 1954, include the Tansill and Yates formations and all but the lowermost 100 feet of the Seven Rivers formation.
- (**g**) That the vertical limits of the Langlie-Mattix Pool, as defined by said Order No. R-520, include the lowermost 100 feet of the Seven Rivers formation and all of the Queen formation.
- (6) That there has been some disparity among some geologists actual as to the base of the Seven Rivers formation and the top of the Queen formation and hence as to the location of the 100-foot marker separating the Jalmat and Langlie Mattix pools.
- and other wells in the general area which are classified as A Langlie-Mattix wells have perforations extending across the aforesaid 100-foot marker in the Seven Rivers formation.
- (8) Inat such crossing over from one pool into the other in this case appears to be an unintentional error.
- (£) That to rectify the aforesaid error would require workover operations on the subject wells which would be expensive and might endanger the productivity of the subject wells, and would actually serve no beneficial purpose, inasmuch as the production and reservoir characteristics of the perforations immediately above and below the 100-foot marker are quite similar.
- in this case is to (10) That a reasonable solution to the problem is to adjust anthonize the commingling of the production from the Lower the vertical limits of the tanglie-Mattix Pool upward to Jalmat perforations and the Langlie-Mattix production in accommodate the present perforations in the lower Seven Rivers whe wellbores of the Subject wells.

 Cormation which are actually within the present Jalmat vertical limits.
- (16) That such adjustment will prevent waste and should not impair correlative rights and should be approved.

(1) That in order to allocate the commingled production
to each of the commingled zones in the subject wells
percent of the commingled production should be
Lewis Land
allocated to the Jelmet 2000; and 2000. All production chanced be efficiented to the Langue Maffix Paul- percent of the commingled production to the
percent of the commingled production to the
Langlia Mattiy

IT IS THEREFORE ORDERED:

(1) That the applicant, Tahoe Oil & Cattle Company is
hereby authorized to commingle Jalmat and
Langlie Mattix production within the wellboresof
Harrison Wells No. 1 and 2 lucated in Units A and H, respectivel the and its Judy Well No. 1 , located in Unit r , xxxx al
Section 7 , Township 25 South , Range 37 East
NMPM, Lea County, New Mexico.
That the applicant shall consult with the Supervisor the Hobbs district office of the Division and
determine an allocation formula for the allocation of production
to each zone in each of the subject wells
(2) That all of the commingled
(2) That the commingled from the subject wells production shall be allocated to the
2012 and 50 percent of the commission
shall be affributed to the Langlie Mattix
zone. Pool.
(3) That the effective date of the aforesaid revision of the vertical authorization for lach of the Authority wells limits of said pools shall be the date the Marrison Well
No. 1 was perforated between 3257 feet and 3390 feet
(4)Jurisdiction.
Done at Santa Fe, New Mexico, on the day and year hereinabove designated.
-> the date the Harrison Well no 2 uses perforated
between 3127 feet and 3377 feet, and the
date the Judy wree no 1 was perforated tetuzza 3214
between 3127 feet and 3377 feet, and the date the Judy wree no 1 was perforated termes 3214 feet and 3335 feet, respectively