

CASE 4040: UNION TEXAS PETROLEUM FOR
GOSSELING, SAN JUAN COUNTY,
NEW MEXICO

CASE NO.

6840

APPLICATION,
TRANSCRIPTS,
SMALL EXHIBITS,

ETC.

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. 6840 .
Order No. R-6312 .

APPLICATION OF UNION TEXAS PETROLEUM
FOR DOWNHOLE COMMINGLING, SAN JUAN
COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on March 26, 1980,
at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 15th day of April, 1980, the Division Direc-
tor, 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, Union Texas Petroleum, is the
owner and operator of the Johnston Federal Well No. 11Y, located
in Unit N of Section 7, Township 31 North, Range 9 West, NMPM,
San Juan County, New Mexico.
- (3) That the applicant seeks authority to commingle
Fruitland and Pictured Cliffs production within the wellbore
of the above-described well.
- (4) That the Fruitland and Pictured Cliffs producing inter-
vals are separated by approximately twenty feet.
- (5) That during the process of completion the Fruitland
and Pictured Cliffs zones became communicated behind the pro-
duction casing.

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(6) That tests indicate that the Fruitland zone is capable of low marginal production only.

(7) That from the Pictured Cliffs zone, the subject well is expected to be capable of low rates of production only.

(8) That attempts to separate the two zones by squeeze cementing could result in permanent loss of production from all or part of each zone.

(9) That the proposed commingling may result in the recovery of additional hydrocarbons from each of the subject pools, thereby preventing waste, and will not violate correlative rights.

(10) That the reservoir characteristics of each of the subject zones are such that underground waste would not be caused by the proposed commingling provided that the well is not shut-in for an extended period.

(11) That to afford the Division the opportunity to assess the potential for waste and to expeditiously order appropriate remedial action, the operator should notify the Aztec district office of the Division any time the subject well is shut-in for 7 consecutive days.

(12) That in order to allocate the commingled production to each of the commingled zones in the well, applicant should consult with the supervisor of the Aztec district office of the Division and determine an allocation formula for each of the production zones.

(13) That said Johnston Federal Well No. 11Y should be periodically tested during its first year of production to determine the efficacy of the downhole commingling authorized by this order.

(14) The Director of the Division should be empowered to administratively rescind the commingling authority granted by this order if it should appear that the well is producing excessive volumes of water or if it should otherwise appear necessary to prevent waste.

IT IS THEREFORE ORDERED:

(1) That the applicant, Union Texas Petroleum is hereby authorized to commingle Fruitland and Pictured Cliffs production within the wellbore of the Johnston Federal Well No. 11Y,

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located in Unit N of Section 7, Township 31 North, Range 9 West,
NMPM, San Juan County, New Mexico.

(2) That the applicant shall consult with the Supervisor of the Aztec district office of the Division and determine an allocation formula for the allocation of production to each zone in the subject well and a test schedule in accordance with Finding No. (13) above.

(3) That the Division shall witness the tests required by Order (2) above.

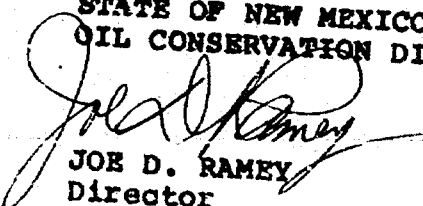
(4) That the operator of the subject well shall immediately notify the Division's Aztec district office any time the well has been shut-in for 7 consecutive days and shall concurrently present, to the Division, a plan for remedial action.

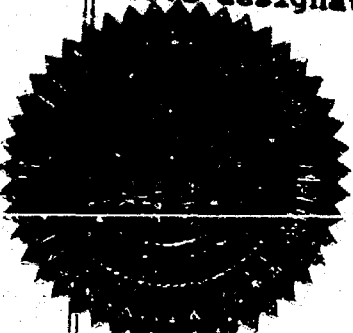
(5) That the Director of the Division may administratively rescind the commingling authority granted by this order whenever it should appear that said Johnston Federal Well No. 111 is producing excessive volumes of water or it should otherwise appear necessary to prevent waste.

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

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

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION


JOE D. RAMEY
Director


S E A L

fd/



BRUCE KING
GOVERNOR
LARRY KEHOE
SECRETARY

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

April 17, 1980

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Mr. Douglas Lunsford
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& Hensley
Attorneys at Law
Post Office Box 10
Roswell, New Mexico 88201

Re: CASE NO. 6840
ORDER NO. R-6312

Applicant:

Union Texas Petroleum

Dear Sir:

Enclosed herewith are two copies of the above-referenced
Division order recently entered in the subject case.

Yours very truly,


JOE D. RAMEY
Director

JDR/fd

Copy of order also sent to:

Hobbs OCD X
Artesia OCD X
Aztec OCD X

Other _____

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
STATE LAND OFFICE BLDG.
SANTA FE, NEW MEXICO
26 March 1980

EXAMINER HEARING

IN THE MATTER OF:

Application of Union Texas Petroleum
for downhole commingling, San Juan
County, New Mexico.

CASE
6840

BEFORE: Richard L. Stamets

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the Oil Conservation
Division:

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

For the Applicant:

Doug Lunsford, Esq.
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I N D E X

C. WILLIAM CLAXTON

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1 MR. STAMETS: We'll call next Case 6840.

2 MR. PADILLA: Application of Union Texas

3 Petroleum for downhole commingling, San Juan County, New
4 Mexico.

5 MR. STAMETS: Call for appearances in
6 this case.

7 MR. LUNSFORD: Douglas Lunsford, with the
8 Hinkle Law Firm in Roswell, and I have one witness.

9 MR. STAMETS: What was your last name,
10 sir?

11 MR. LUNSFORD: Lunsford, L-U-N-S-F-O-R-D.

12 MR. STAMETS: Any other appearances?
13 I'd like to have the witness stand and be sworn.

14
15 (Witness sworn.)

16
17 C. WILLIAM CLAXTON

18 being called as a witness and having been duly sworn upon
19 his oath, testified as follows, to-wit:

20
21 DIRECT EXAMINATION

22 BY MR. LUNSFORD:

23 Q Would you please state your name, address,
24 occupation, and employer?

25 A My name is C. William Claxton, C-L-A-X-T-O-N

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1 and my business address is 1010 Lincoln Tower in Denver.

2 I am a petroleum engineer for Union Texas Petroleum?

3 Q Mr. Claxton, have you previously testi-
4 fied before the Oil Conservation Division as a petroleum
5 engineer?

6 A No, sir, I have not.

7 Q Would you please state your educational
8 background and experience as a petroleum engineer?

9 A Okay. I graduated from Texas Tech Uni-
10 versity in 1970 with a BS degree in petroleum engineering.
11 I spent six years with Union Oil of California in various
12 districts as a drilling and production engineer. The past
13 four years has been with Union Texas Petroleum, the last
14 three of which has been in my present position as District
15 Engineer in the Rocky Mountain District.

16 Q Are you familiar with the application of
17 Union Texas Petroleum in this case?

18 A Yes.

19 Q Are you familiar with the property and
20 the well involved in this case?

21 A Yes, I am.

22 MR. LUNSFORD: I would -- is the witness
23 qualified?

24 MR. STAMETS: The witness is considered
25 qualified.

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1 Q Mr. Claxton, what does Union Texas Petro-
2 leum seek by this application?

3 A Union Texas seeks approval for the down-
4 hole commingling of Fruitland and Pictured Cliffs production
5 in the wellbore of its Johnston Federal 11-Y, located in
6 Unit N of Section 7, Township 31 North, Range 9 West.

7 Q Mr. Claxton, I hand you Exhibit, marked
8 Exhibit Number One, and ask you to state what this means.

9 A Okay. Exhibit Number One is a land plat
10 of the area. The Union Texas acreage has been shaded
11 green. The red area is operated by El Paso. The area
12 shaded blue is operated by Koch. Those are the only other
13 two operators adjacent to our lease.

14 The color code on the well, blue denotes
15 Mesaverde production; red is the Pictured Cliffs production.
16 The arrow points to our Johnston Federal 11-Y, which in the
17 mapped area is the only well that's been opened up in the
18 Fruitland to date.

19 Q Are the only offset operators El Paso
20 and Koch?

21 A That is the only two.

22 Q I now hand you Exhibit Two and ask you
23 to state what that represents.

24 A Okay, Exhibit Two are the waivers from
25 the two offset operators to this application.

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Q That is to your requested downhole commingling from the two zones in this well?

A That is right.

Q Turning to Exhibit Three, Mr. Claxton, I ask you to state what that represents.

A Okay, Exhibit Three is a portion of the cased hole log covering the Fruitland and the Pictured Cliffs sections in our well that we perforated.

The exhibit points out the perforations that are open right now and perforations that have already been squeezed off in the Fruitland.

Q Does it also show the approximate depth at which the perforations have been made?

A Yes, sir, it does.

Q Turning to Exhibit Four, Mr. Claxton, would you please state what that represents?

A Okay, Exhibit Four is a wellbore diagram showing the current status of the well. It again shows the depths of perforations. It points out our dual hookup, which is fairly common for the area. We've got a Model F packer set between the two zones, and are strung into it right now. The well is currently shut in.

Q Would you identify the base of the Fruitland perforations and the top of the Pictured Cliffs perforations?

1 A Okay. The bottom perforation in the
2 Fruitland is at 3412. The top perforation in the Pictured
3 Cliffs is 3433. They are just 21 feet between the two zones.

4 Q Turning to Exhibit Five, Mr. Claxton,
5 would you please state what that represents?

6 A Okay, Exhibit Five is just a copy of our
7 not approved packer leakage test. It does point out the
8 fact that we've got communication between the two zones.

9 Q Okay, turning to Exhibit Six, please
10 state to the Examiner what that means.

11 A Okay, now Exhibit Six is a copy of our
12 daily reports during the completion operations on this well.
13 As we go through it, I've got some things highlighted, which
14 I wish to point out, and I hope after going through this
15 we can show you -- point out three things.

16 The first thing of all, I hope it's evi-
17 dent that we made a diligent effort and a time-consuming
18 effort to obtain a dual completion.

19 Secondly, I will point out where we be-
20 lieve that the communication, or the breakdown between the
21 two zones, occurred.

22 And thirdly, I will show, attempt to
23 show, that even though there is quite a pressure differential
24 between the two zones, the Fruitland being the higher pres-
25 sured zone, we will show that it is a low volume zone, and

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1 through our daily reports can show that it is depleting very
2 quickly, and that the probability of damage to the Pictured
3 Cliffs from cross flow is almost nil.

4 Now, if we go through real quickly here,
5 as I said, this starts when we moved in our completion rig.
6 Our cement job on our 5-1/2 inch casing went very well, or
7 at that time we were unaware of any problems.

8 Now I have most of these things high-
9 lighted in yellow. You will see on the 12th of October we
10 pressure tested the casing to 3000 pounds and there were no
11 problems.

12 On the -- skipping down to the 13th,
13 we fracd the Pictured Cliffs and for the next two days
14 we flowed the well, trying to clean it up a little bit.
15 The rate noted at the surface was 1.385 million cubic feet
16 a day.

17 All right, on the 16th we had a shutin
18 casing pressure of 635 pounds. That's shutin surface pres-
19 sure for the Pictured Cliffs. We set a wireline plug above
20 the Pictured Cliffs and perforated our Fruitland section.
21 Our measured flow of natural from the Fruitland was also
22 1.385 million cubic feet. The rates are the same, but you
23 can see on the 17th, we had a shutin tubing pressure of
24 1100 pounds, which is some 500 pounds higher than we ob-
25 served with the Pictured Cliffs, which indicates to us that

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1 we were not communicated at that time.

2 Okay, for -- on down through here on the
3 20th, the 21st, and the 22nd, again noting the first rate
4 that we had on the Fruitland was 1.3 million, then on the
5 20th the rate was down to 581,000. On the 21st, 457,000.
6 On the 22nd, 396,000.

7 Then on the -- on the 22nd and 23rd we
8 noticed that we had some pressure behind our 5-1/2 inch
9 casing inside of our 9-5/8ths casing.

10 So on the 23rd we pulled our packers
11 and what not out of the hole, and the rate noted on the
12 23rd of 1.4 million is both zones again.

13 On the 24th, and you may want to refer
14 back to the exhibit, the wellbore diagram, it shows what
15 zones are squeezed, we squeezed that top block of Fruitland
16 perforations in order to fill up this channel to the sur-
17 face.

18 We also bradenhead squeezed.

19 On the 25th we pressured on these per-
20 forations to 1300 pounds. Everything held okay, and we
21 have not seen any indication of pressure behind our packer.

22 The rest of this page here, we again
23 cleaned the well up, got the cement that was left in the
24 hole up, and from, say, October the 30th through about the
25 November the 9th, we were flowing and testing both zones

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again. You still see some fairly decent rates of 700, 800 Mcf a day.

On the 23rd of November we ran in the hole with a packer, set them between the two zones. You will note on the 23rd and 24th there was 1000 pounds pressure on the casing, which is a Fruitland, and in the neighborhood of 630 pounds on the tubing, which is a Pictured Cliffs.

You will also note that the flow rates through the tubing, or the Pictured Cliffs, are fairly substantial, 800,000 a day.

You will note that the Fruitland, for instance, on the 24th, we flowed the well for 9 hours. At the end of that period the flowing casing pressure was zero. The zone, again, is depleting fairly rapidly.

On the 26th, on the next page, we straddled the Fruitland to flow it out the tubing. We noticed a maximum rate of 173,000 a day at that particular time.

Again, we're still seeing the 1000 pounds pressure on the Fruitland; no evidence of communication yet.

On November the 27th we acidized the lower block of Fruitland perforations there, and this is where we believe that the communication occurred. It appears to us that the acid just went down through that 21 feet between the two zones.

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1 And you see on the 28th and 29th, we,
2 still believing that this gas was coming out of the Fruit-
3 land, and we're noticing rates of 800 Mcf a day, which was
4 more like the Fruitland -- the Pictured Cliffs we had been
5 observing on the prior few days.

6 On hindsight now, at this time we did
7 not realize we had communication.

8 On the 29th we ran our production string
9 with our permanent packer between the two zones. On the
10 30th we noticed that our pressures were equalized and knew
11 we had communication at that point.

12 On December the 1st we rigged up a wire-
13 line truck to check our production equipment and it appeared
14 okay at that time, and again that week we pulled our production
15 equipment to check it to make sure that our communication
16 was not caused by our production equipment.

17 We believe that the communication is
18 behind pipe between the two zones.

19 Q Mr. Claxton, what fluids are present in
20 the two zones of which you spoke of?

21 A Okay, now the -- this is the only Fruit-
22 land, attempted Fruitland, completion in this area. We do
23 not have a handle on what type of fluids, if any, the Fruit-
24 land will produce. We have one Pictured Cliffs well, being
25 east of this well in the same section. It makes approxi-

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1 mately 1 barrel of condensate and a little bit less than 1
2 barrel of water a day.

3 Q Do you think that the liquids and the
4 volumes would be compatible in these two zones?

5 A Yes.

6 Q Do you believe there will be reservoir
7 damage to either zone if commingling is permitted?

8 A No, because through the daily reports it
9 does appear that the Pictured Cliffs, or the Fruitland is
10 the higher pressure, that it is a low volume, and it appears
11 to be a very quickly depleting zone.

12 Q If this application is denied, will you
13 try and dually complete this well again, or what will you
14 do?

15 A Okay, under what we're looking at now,
16 if our application is not approved, we will have to squeeze
17 out the Fruitland. From what we've seen of the Fruitland,
18 we cannot economically justify going back in and opening it
19 up again. Any reserves that the Fruitland may make will be
20 lost.

21 The other danger, because of only the
22 20 foot between the two zones, by squeezing the Fruitland
23 we could get cement down in our Pictured Cliffs, and could
24 damage that formation.

25 Q Mr. Claxton, do you believe there will be

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1 ultimately more gas recovered if you are allowed to commingle
2 the two zones?

3 A Yes, I do.

4 Q Mr. Claxton, I hand you Exhibit Seven
5 and ask you to state what that means.

6 A Okay, Exhibit Seven, should our applica-
7 tion be approved, is our proposed allocation formula. We
8 will be glad to work with the local State people, if this
9 formula is not acceptable. I do want to note that the
10 royalty owners and the working interest owners are common
11 and equal for all zones under our lease.

12 Our allocation formula is based on the
13 observed flow rates we've seen in the well. The last ob-
14 served rate was 173,000 a day. We took that initial rate,
15 applied it to a decline curve for typical Fruitland, which
16 is at least seven miles away, and based on that have come
17 up with the following chart.

18 If we are allowed to downhole commingle,
19 the allocation has the only stipulation that we will not
20 allocate more than 20 percent of the total production to
21 the Fruitland.

22 Q You would make every attempt to work out
23 an appropriate allocation formula with the local office of
24 the OCD in that area?

25 A Yes, we would.

1 Q Mr. Claxton, have these exhibits been
2 prepared either by you or under your direct supervision?

3 A Yes.

4 MR. LUNSFORD: Mr. Examiner, I would
5 move the admission of these exhibits, if I may at this time.

6 MR. STAMETS: These exhibits will be
7 admitted.

8 Q And, Mr. Claxton, in your opinion, would
9 the approval of this application by Union Texas Petroleum
10 Company, or Corporation, prevent the drilling of unnecessary
11 wells, and otherwise prevent waste and protect correlative
12 rights?

13 A Yes, it would.

14 MR. LUNSFORD: That's all I have, Mr.
15 Examiner.

16
17 CROSS EXAMINATION

18 BY MR. STAMETS:

19 Q Mr. Claxton, referring to Exhibit Number
20 Six, on page one, the test conducted October 20th, or the
21 report of October 20th, there is a notation at the end of
22 that, it says, "Too wet to burn."

23 What does that mean?

24 A Okay. We were still getting some fluid
25 out of the hole, whether it's acid water or any drilling

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1 fluid that was left in the hole, we don't have an analysis
2 on it at that time, but the gas, you know, typically cleaning
3 the well up, you blow it till it will burn, to clean it up.
4 At that time we still had enough water that the gas would
5 not burn.

6 Q Is that a situation which subsequently
7 changed? From the Fruitland?

8 A Yes.

9 Q Now on the third page of that report,
10 October of -- November 26th, the second line there, it says,
11 "Unloaded lots of water." That is from the Fruitland, is
12 that correct?

13 A Okay, now -- okay. All the time that we
14 are jockeying our tubing in and out, running packers, and
15 whatnot, we are killing the well. We're pumping anywhere
16 from 50 to 150 barrels of water back down the well so we
17 can pull our equipment, and any time during this completion,
18 again, we've got the problem of not really knowing if this
19 is our kill fluid coming back at us, or if it's some fluid
20 that's from the zone itself.

21 Q To your knowledge, is the Fruitland
22 water-bearing in this area?

23 A Okay. Now, back on our Exhibit One, in
24 the northeast portion of that section, we have a Fruitland
25 well -- a Pictured Cliffs well, that has just come onstream.

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1 We attempted to complete that in the
2 Fruitland but the Fruitland was real wet there; probably
3 capable of making 100 barrels of water a day.

4 Down here in this section we have seen
5 nothing to indicate that the 11-Y Fruitland will make any-
6 where near that kind of water, and there's -- I'm not a
7 geologist or a log expert, I have a lot of trouble correla-
8 ting the zones even this close, but we do not anticipate
9 that the Fruitland is going to make very much water in this
10 well.

11 Q Mr. Claxton, you do realize, I presume,
12 that if the Fruitland did produce water in this area and
13 it was allowed to be communicated behind the pipe, that
14 could cause some problem with production, potential loss
15 of gas from the Pictured Cliffs?

16 A Yes, sir. We, in that respect, I'll
17 point out the fact that this is the second well we've
18 drilled on this proration unit for Pictured Cliffs production.
19 In '78 we drilled the No. 11 Well, the casing collapsed,
20 and we lost that well. It was never produced. We spent
21 \$200,000 there.

22 To date we've spent \$250,000 on 11-Y,
23 and we haven't put any gas down the line yet.

24 Now, our company operates on an economi-
25 cal basis. If the Pictured Cliffs does not perform as we

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1 anticipate, if we have any indication that the hole is loading
2 up with fluid, we will do a workover on the well and do what-
3 ever is necessary, squeeze the Fruitland, if necessary, to
4 prevent any damage to the Pictured Cliffs.

5 Q I presume you would be willing to cooper-
6 ate with any tests that the Division might propose to make
7 certain that the well is not producing water at the present
8 time or a reasonable period in the future.

9 A Yes, sir.

10 MR. STAMETS: Any other questions of this
11 witness? Mr. Chavez?

12
13 QUESTIONS BY MR. CHAVEZ:

14 Q Yes. I am Frank Chavez, District Super-
15 visor of the Aztec District of the Oil Conservation Division.

16 Mr. Claxton, when you squeezed the top
17 set of perforations in the Fruitland because of communication
18 behind the pipe, did you attempt to run a temperature survey
19 or cement bond log survey to show that -- how high, perhaps,
20 that cement had gone or the quality of the cement job above
21 those perforations?

22 A I do not -- I don't think we did. We did
23 cement it with 300 sacks. During the cement job we had
24 full returns at the surface. We'd established circulation
25 all the way up to our bradenhead.

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1 Q What was the estimated top, say, of the
2 estimated 100 percent (inaudible)

3 A I'd have to go calculate that. I don't
4 know what it would be.

5 Q Okay, I looked at that, your application,
6 but I don't remember the dates. Did you do the bradenhead
7 squeeze at the same time --

8 A Right.

9 Q -- that you did the --

10 A Right, the next day we did the bradenhead
11 squeeze.

12 Q The next day after you did the circula-
13 tion?

14 A Yeah, next day.

15 Q Did you notice any pressures at all when
16 you initiated that bradenhead squeeze?

17 A No, and the well was dead on the back
18 side of it.

19 MR. CHAVEZ: I guess that's all I have.

20 MR. STAMETS: Any other questions of this
21 witness? He may be excused.

22 Anything further in this case?

23 MR. LUNSFORD: No, sir.

24 MR. STAMETS: Did we admit your exhibits?

25 MR. LUNSFORD: Yes, you did.

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MR. STAMETS: Okay. If there is nothing further, this case will be taken under advisement.

(Hearing concluded.)

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REPORTER'S CERTIFICATE

I, SALLY W. BOYD, C.S.R., DO HEREBY CERTIFY that the foregoing Transcript of Hearing before the Oil Conservation Division was reported by me; that the said transcript is a full, true, and correct record of the hearing, prepared by me to the best of my ability.

Sally W. Boyd C.S.R.

SALLY W. BOYD, C.S.R.

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do hereby certify that the foregoing is
complete record of the proceedings in
an examiner hearing of Case No. 6848
reported by me on 3-26 1980
Richard H. Hunt, Examiner
Oil Conservation Division

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
STATE LAND OFFICE BLDG.
SANTA FE, NEW MEXICO
26 March 1980

EXAMINER HEARING

IN THE MATTER OF:

Application of Union Texas Petroleum)
for downhole commingling, San Juan)
County, New Mexico.)

CASE
6840

BEFORE: Richard L. Stamets

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the Oil Conservation
Division:

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

For the Applicant:

Doug Lunsford, Esq.
HINKLE, COX, EATON, COFFIELD &
HENSLEY
Hinkle Building
Roswell, New Mexico 88201

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I N D E X

C. WILLIAM CLAXTON

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MR. STAMETS: We'll call next Case 6840.

MR. PADILLA: Application of Union Texas
Petroleum for downhole commingling, San Juan County, New
Mexico.

MR. STAMETS: Call for appearances in
this case.

MR. LUNSFORD: Douglas Lunsford, with the
Hinkle Law Firm in Roswell, and I have one witness.

MR. STAMETS: What was your last name,
sir?

MR. LUNSFORD: Lunsford, L-U-N-S-F-O-R-D.

MR. STAMETS: Any other appearances?
I'd like to have the witness stand and be sworn.

(Witness sworn.)

C. WILLIAM CLAXTON

being called as a witness and having been duly sworn upon
his oath, testified as follows, to-wit:

DIRECT EXAMINATION

BY MR. LUNSFORD:

Q Would you please state your name, address,
occupation, and employer?

A My name is C. William Claxton, C-L-A-X-T-O-N

1 and my business address is 1010 Lincoln Tower in Denver.

2 I am a petroleum engineer for Union Texas Petroleum?

3 Q Mr. Claxton, have you previously testi-
4 fied before the Oil Conservation Division as a petroleum
5 engineer?

6 A No, sir, I have not.

7 Q Would you please state your educational
8 background and experience as a petroleum engineer?

9 A Okay. I graduated from Texas Tech Uni-
10 versity in 1970 with a BS degree in petroleum engineering.
11 I spent six years with Union Oil of California in various
12 districts as a drilling and production engineer. The past
13 four years has been with Union Texas Petroleum, the last
14 three of which has been in my present position as District
15 Engineer in the Rocky Mountain District.

16 Q Are you familiar with the application of
17 Union Texas Petroleum in this case?

18 A Yes.

19 Q Are you familiar with the property and
20 the well involved in this case?

21 A Yes, I am.

22 MR. LUNSFORD: I would -- is the witness
23 qualified?

24 MR. STAMETS: The witness is considered

25 qualified.

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1 Q Mr. Claxton, what does Union Texas Petro-
 2 leum seek by this application?

3 A Union Texas seeks approval for the down-
 4 hole commingling of Fruitland and Pictured Cliffs production
 5 in the wellbore of its Johnston Federal 11-Y, located in
 6 Unit N of Section 7, Township 31 North, Range 9 West.

7 Q Mr. Claxton, I hand you Exhibit, marked
 8 Exhibit Number One, and ask you to state what this means.

9 A Okay. Exhibit Number One is a land plat
 10 of the area. The Union Texas acreage has been shaded
 11 green. The red area is operated by El Paso. The area
 12 shaded blue is operated by Koch. Those are the only other
 13 two operators adjacent to our lease.

14 The color code on the well, blue denotes
 15 Mesaverde production; red is the Pictured Cliffs production.
 16 The arrow points to our Johnston Federal 11-Y, which in the
 17 mapped area is the only well that's been opened up in the
 18 Fruitland to date.

19 Q Are the only offset operators El Paso
 20 and Koch?

21 A That is the only two.

22 Q I now hand you Exhibit Two and ask you
 23 to state what that represents.

24 A Okay, Exhibit Two are the waivers from
 25 the two offset operators to this application.

1 Q That is to your requested downhole com-
2 mingling from the two zones in this well?

3 A That is right.

4 Q Turning to Exhibit Three, Mr. Claxton,
5 I ask you to state what that represents.

6 A Okay, Exhibit Three is a portion of the
7 cased hole log covering the Fruitland and the Pictured Cliffs
8 sections in our well that we perforated.

9 The exhibit points out the perforations
10 that are open right now and perforations that have already
11 been squeezed off in the Fruitland.

12 Q Does it also show the approximate depth
13 at which the perforations have been made?

14 A Yes, sir, it does.

15 Q Turning to Exhibit Four, Mr. Claxton,
16 would you please state what that represents?

17 A Okay, Exhibit Four is a wellbore diagram
18 showing the current status of the well. It again shows the
19 depths of perforations. It points out our dual hookup, which
20 is fairly common for the area. We've got a Model F packer
21 set between the two zones, and are strung into it right now.
22 The well is currently shut in.

23 Q Would you identify the base of the Fruit-
24 land perforations and the top of the Pictured Cliffs perfor-
25 ations?

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1 A Okay. The bottom perforation in the
2 Fruitland is at 3412. The top perforation in the Pictured
3 Cliffs is 3433. They are just 21 feet between the two zones.

4 Q Turning to Exhibit Five, Mr. Claxton,
5 would you please state what that represents?

6 A Okay, Exhibit Five is just a copy of our
7 not approved packer leakage test. It does point out the
8 fact that we've got communication between the two zones.

9 Q Okay, turning to Exhibit Six, please
10 state to the Examiner what that means.

11 A Okay, now Exhibit Six is a copy of our
12 daily reports during the completion operations on this well.
13 As we go through it, I've got some things highlighted, which
14 I wish to point out, and I hope after going through this
15 we can show you -- point out three things.

16 The first thing of all, I hope it's evi-
17 dent that we made a diligent effort and a time-consuming
18 effort to obtain a dual completion.

19 Secondly, I will point out where we be-
20 lieve that the communication, or the breakdown between the
21 two zones, occurred.

22 And thirdly, I will show, attempt to
23 show, that even though there is quite a pressure differential
24 between the two zones, the Fruitland being the higher pres-
25 sured zone, we will show that it is a low volume zone, and

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Page 8

1 through our daily reports can show that it is depleting very
2 quickly, and that the probability of damage to the Pictured
3 Cliffs from cross flow is almost nil.

4 Now, if we go through real quickly here,
5 as I said, this starts when we moved in our completion rig.
6 Our cement job on our 5-1/2 inch casing went very well, or
7 at that time we were unaware of any problems.

8 Now I have most of these things high-
9 lighted in yellow. You will see on the 12th of October we
10 pressure tested the casing to 3000 pounds and there were no
11 problems.

12 On the -- skipping down to the 13th,
13 we fraced the Pictured Cliffs and for the next two days
14 we flowed the well, trying to clean it up a little bit.
15 The rate noted at the surface was 1.385 million cubic feet
16 a day.

17 All right, on the 16th we had a shutin
18 casing pressure of 635 pounds. That's shutin surface pres-
19 sure for the Pictured Cliffs. We set a wireline plug above
20 the Pictured Cliffs and perforated our Fruitland section.
21 Our measured flow of natural from the Fruitland was also
22 1.385 million cubic feet. The rates are the same, but you
23 can see on the 17th, we had a shutin tubing pressure of
24 1100 pounds, which is some 500 pounds higher than we ob-
25 served with the Pictured Cliffs, which indicates to us that

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Page 9

1 we were not communicated at that time.

2 Okay, for -- on down through here on the
3 20th, the 21st, and the 22nd, again noting the first rate
4 that we had on the Fruitland was 1.3 million, then on the
5 20th the rate was down to 581,000. On the 21st, 457,000.
6 On the 22nd, 396,000.

7 Then on the -- on the 22nd and 23rd we
8 noticed that we had some pressure behind our 5-1/2 inch
9 casing inside of our 9-5/8ths casing.

10 So on the 23rd we pulled our packers
11 and what not out of the hole, and the rate noted on the
12 23rd of 1.4 million is both zones again.

13 On the 24th, and you may want to refer
14 back to the exhibit, the wellbore diagram, it shows what
15 zones are squeezed, we squeezed that top block of Fruitland
16 perforations in order to fill up this channel to the sur-
17 face.

18 We also bradenhead squeezed.

19 On the 25th we pressured on these per-
20 forations to 1300 pounds. Everything held okay, and we
21 have not seen any indication of pressure behind our packer.

22 The rest of this page here, we again
23 cleaned the well up, got the cement that was left in the
24 hole up, and from, say, October the 30th through about the --
25 November the 9th, we were flowing and testing both zones

1 again. You still see some fairly decent rates of 700, 800
2 Mcf a day.

3 On the 23rd of November we ran in the
4 hole with a packer, set them between the two zones. You
5 will note on the 23rd and 24th there was 1000 pounds pres-
6 sure on the casing, which is a Fruitland, and in the neighbor-
7 hood of 630 pounds on the tubing, which is a Pictured Cliffs.

8 You will also note that the flow rates
9 through the tubing, or the Pictured Cliffs, are fairly
10 substantial, 800,000 a day.

11 You will note that the Fruitland, for
12 instance, on the 24th, we flowed the well for 9 hours. At
13 the end of that period the flowing casing pressure was zero.
14 The zone, again, is depleting fairly rapidly.

15 On the 26th, on the next page, we
16 straddled the Fruitland to flow it out the tubing. We
17 noticed a maximum rate of 173,000 a day at that particular
18 time.

19 Again, we're still seeing the 1000 pounds
20 pressure on the Fruitland; no evidence of communication yet.

21 On November the 27th we acidized the
22 lower block of Fruitland perforations there, and this is
23 where we believe that the communication occurred. It ap-
24 pears to us that the acid just went down through that 21
25 feet between the two zones.

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1 And you see on the 28th and 29th, we,
2 still believing that this gas was coming out of the Fruit-
3 land, and we're noticing rates of 800 Mcf a day, which was
4 more like the Fruitland -- the Pictured Cliffs we had been
5 observing on the prior few days.

6 On hindsight now, at this time we did
7 not realize we had communication.

8 On the 29th we ran our production string
9 with our permanent packer between the two zones. On the
10 30th we noticed that our pressures were equalized and knew
11 we had communication at that point.

12 On December the 1st we rigged up a wire-
13 line truck to check our production equipment and it appeared
14 okay at that time, and again that week we pulled our production
15 equipment to check it to make sure that our communication
16 was not caused by our production equipment.

17 We believe that the communication is
18 behind pipe between the two zones.

19 Q Mr. Claxton, what fluids are present in
20 the two zones of which you spoke of?

21 A Okay, now the -- this is the only Fruit-
22 land, attempted Fruitland, completion in this area. We do
23 not have a handle on what type of fluids, if any, the Fruit-
24 land will produce. We have one Pictured Cliffs well, being
25 east of this well in the same section. It makes approxi-

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1 mately 1 barrel of condensate and a little bit less than 1
2 barrel of water a day.

3 Q Do you think that the liquids and the
4 volumes would be compatible in these two zones?

5 A Yes.

6 Q Do you believe there will be reservoir
7 damage to either zone if commingling is permitted?

8 A No, because through the daily reports it
9 does appear that the Pictured Cliffs, or the Fruitland is
10 the higher pressure, that it is a low volume, and it appears
11 to be a very quickly depleting zone.

12 Q If this application is denied, will you
13 try and dually complete this well again, or what will you
14 do?

15 A Okay, under what we're looking at now,
16 if our application is not approved, we will have to squeeze
17 out the Fruitland. From what we've seen of the Fruitland,
18 we cannot economically justify going back in and opening it
19 up again. Any reserves that the Fruitland may make will be
20 lost.

21 The other danger, because of only the
22 20 foot between the two zones, by squeezing the Fruitland
23 we could get cement down in our Pictured Cliffs, and could
24 damage that formation.

25 Q Mr. Claxton, do you believe there will be

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1 ultimately more gas recovered if you are allowed to commingle
2 the two zones?

3 A Yes, I do.

4 Q Mr. Claxton, I hand you Exhibit Seven
5 and ask you to state what that means.

6 A Okay, Exhibit Seven, should our applica-
7 tion be approved, is our proposed allocation formula. We
8 will be glad to work with the local State people, if this
9 formula is not acceptable. I do want to note that the
10 royalty owners and the working interest owners are common
11 and equal for all zones under our lease.

12 Our allocation formula is based on the
13 observed flow rates we've seen in the well. The last ob-
14 served rate was 173,000 a day. We took that initial rate,
15 applied it to a decline curve for typical Fruitland, which
16 is at least seven miles away, and based on that have come
17 up with the following chart.

18 If we are allowed to downhole commingle,
19 the allocation has the only stipulation that we will not
20 allocate more than 20 percent of the total production to
21 the Fruitland.

22 Q You would make every attempt to work out
23 an appropriate allocation formula with the local office of
24 the OCD in that area?

25 A Yes, we would.

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1 Q Mr. Claxton, have these exhibits been
2 prepared either by you or under your direct supervision?

3 A Yes.

4 MR. LUNSFORD: Mr. Examiner, I would
5 move the admission of these exhibits, if I may at this time.

6 MR. STAMETS: These exhibits will be
7 admitted.

8 Q And, Mr. Claxton, in your opinion, would
9 the approval of this application by Union Texas Petroleum
10 Company, or Corporation, prevent the drilling of unnecessary
11 wells, and otherwise prevent waste and protect correlative
12 rights?

13 A Yes, it would.

14 MR. LUNSFORD: That's all I have, Mr.
15 Examiner.

16
17 CROSS EXAMINATION

18 BY MR. STAMETS:

19 Q Mr. Claxton, referring to Exhibit Number
20 Six, on page one, the test conducted October 20th, or the
21 report of October 20th, there is a notation at the end of
22 that, it says, "Too wet to burn."

23 What does that mean?

24 A Okay. We were still getting some fluid
25 out of the hole, whether it's acid water or any drilling
26

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1 fluid that was left in the hole, we don't have an analysis
2 on it at that time, but the gas, you know, typically cleaning
3 the well up, you blow it till it will burn, to clean it up.
4 At that time we still had enough water that the gas would
5 not burn.

6 Q Is that a situation which subsequently
7 changed? From the Fruitland?

8 A Yes.

9 Q Now on the third page of that report,
10 October of -- November 26th, the second line there, it says,
11 "Unloaded lots of water." That is from the Fruitland, is
12 that correct?

13 A Okay, now -- okay. All the time that we
14 are jockeying our tubing in and out, running packers, and
15 whatnot, we are killing the well. We're pumping anywhere
16 from 50 to 150 barrels of water back down the well so we
17 can pull our equipment, and any time during this completion,
18 again, we've got the problem of not really knowing if this
19 is our kill fluid coming back at us, or if it's some fluid
20 that's from the zone itself.

21 Q To your knowledge, is the Fruitland
22 water-bearing in this area?

23 A Okay. Now, back on our Exhibit One, in
24 the northeast portion of that section, we have a Fruitland
25 well -- a Pictured Cliffs well, that has just come onstream.

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1 We attempted to complete that in the
2 Fruitland but the Fruitland was real wet there; probably
3 capable of making 100 barrels of water a day.

4 Down here in this section we have seen
5 nothing to indicate that the 11-Y Fruitland will make any-
6 where near that kind of water, and there's -- I'm not a
7 geologist or a log expert, I have a lot of trouble correla-
8 ting the zones even this close, but we do not anticipate
9 that the Fruitland is going to make very much water in this
10 well.

11 Q Mr. Claxton, you do realize, I presume,
12 that if the Fruitland did produce water in this area and
13 it was allowed to be communicated behind the pipe, that
14 could cause some problem with production, potential loss
15 of gas from the Pictured Cliffs?

16 A Yes, sir. We, in that respect, I'll
17 point out the fact that this is the second well we've
18 drilled on this proration unit for Pictured Cliffs production.
19 In '78 we drilled the No. 11 Well, the casing collapsed,
20 and we lost that well. It was never produced. We spent
21 \$200,000 there.

22 To date we've spent \$250,000 on 11-Y,
23 and we haven't put any gas down the line yet.

24 Now, our company operates on an economi-
25 cal basis. If the Pictured Cliffs does not perform as we

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1 anticipate, if we have any indication that the hole is loading
2 up with fluid, we will do a workover on the well and do what-
3 ever is necessary, squeeze the Fruitland, if necessary, to
4 prevent any damage to the Pictured Cliffs.

5 Q I presume you would be willing to cooper-
6 ate with any tests that the Division might propose to make
7 certain that the well is not producing water at the present
8 time or a reasonable period in the future.

9 A Yes, sir.

10 MR. STAMETS: Any other questions of this
11 witness? Mr. Chavez?

12 QUESTIONS BY MR. CHAVEZ:

13 Q Yes. I am Frank Chavez, District Super-
14 visor of the Aztec District of the Oil Conservation Division.

15 Mr. Claxton, when you squeezed the top
16 set of perforations in the Fruitland because of communication
17 behind the pipe, did you attempt to run a temperature survey
18 or cement bond log survey to show that -- how high, perhaps,
19 that cement had gone or the quality of the cement job above
20 those perforations?

21 A I do not -- I don't think we did. We did
22 cement it with 300 sacks. During the cement job we had
23 full returns at the surface. We'd established circulation
24 all the way up to our bradenhead.
25

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1 Q What was the estimated top, say, of the
2 estimated 100 percent (inaudible)

3 A I'd have to go calculate that. I don't
4 know what it would be.

5 Q Okay, I looked at that, your application,
6 but I don't remember the dates. Did you do the bradenhead
7 squeeze at the same time --

8 A Right.

9 Q -- that you did the --

10 A Right, the next day we did the bradenhead
11 squeeze.

12 Q The next day after you did the circula-
13 tion?

14 A Yeah, next day.

15 Q Did you notice any pressures at all when
16 you initiated that bradenhead squeeze?

17 A No, and the well was dead on the back
18 side of it.

19 MR. CHAVEZ: I guess that's all I have.

20 MR. STAMETS: Any other questions of this
21 witness? He may be excused.

22 Anything further in this case?

23 MR. LUNSFORD: No, sir.

24 MR. STAMETS: Did we admit your exhibits?

25 MR. LUNSFORD: Yes, you did.

1 MR. STAMETS: Okay. If there is nothing
2 further, this case will be taken under advisement.
3

4 (Hearing concluded.)
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REPORTER'S CERTIFICATE

I, SALLY W. BOYD, C.S.R., DO HEREBY 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.

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I do hereby certify that the foregoing is a complete and correct transcript of the proceedings in the Examiner's case of Case No. _____ heard by me on _____, 19____.

_____, Examiner
Oil Conservation Division

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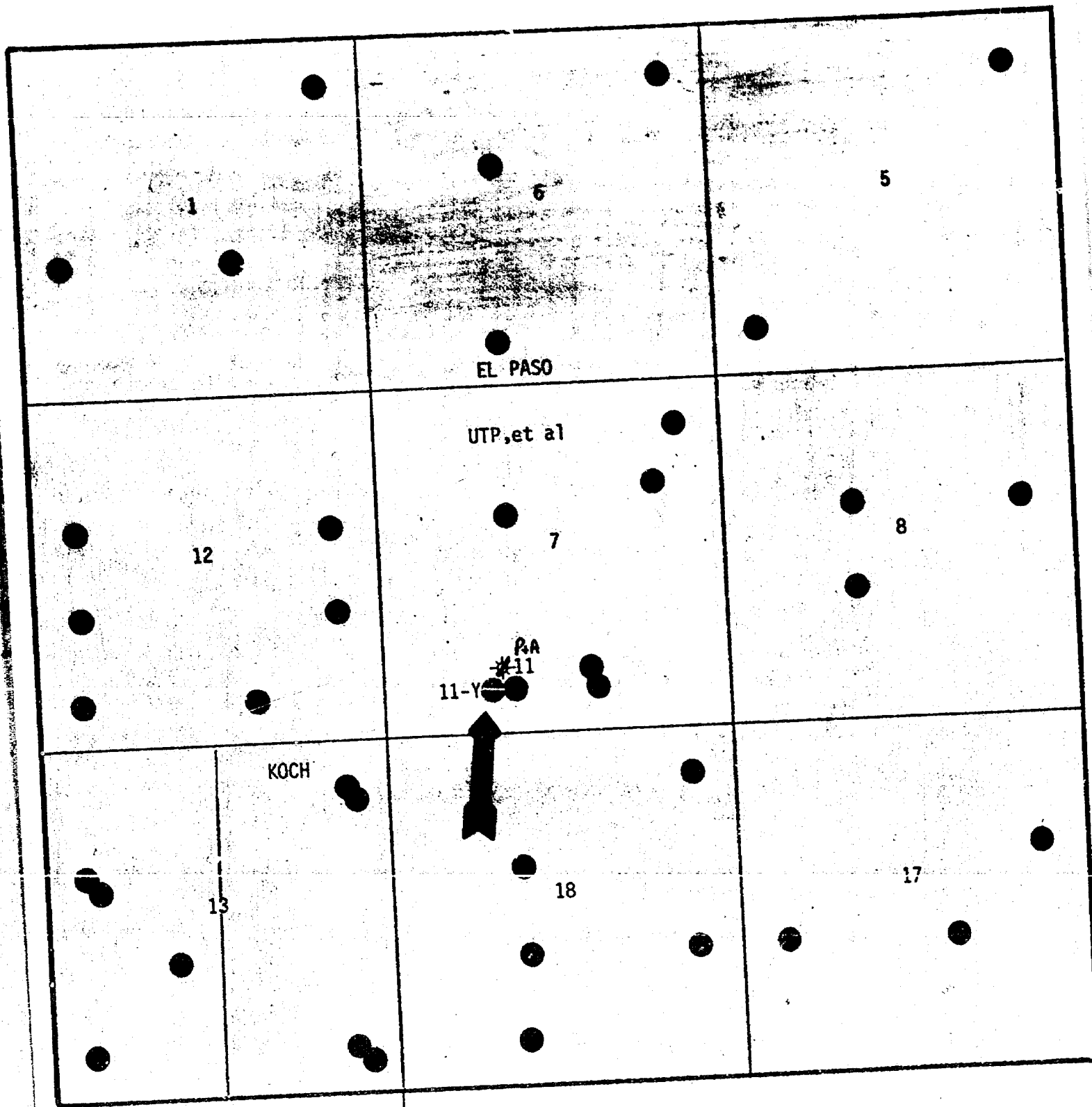
EXHIBITS FOR

CASE 6840

MARCH 26, 1980

UNION TEXAS PETROLEUM
JOHNSTON FEDERAL #11-Y
DOWNHOLE COMMINGLING

EXHIBIT 1



R-10-W | R-9-W

BEFORE EXAMINER STAMETS
OIL CONSERVATION DIVISION

EXHIBIT NO. 1
CASE NO. 6840

Submitted by Union Texas Petroleum

Hearing Date 3-26-80

1 mile

Scale: 1" = 2000'

- - P.C. producer
- - MV producer



Union Texas Petroleum Division
Suite 1010 Lincoln Tower
1880 Lincoln Street
Denver, Colorado 80296

EXHIBIT 2

January 14, 1980

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

RE: Union Texas Petroleum
Johnston Federal #11Y
SE SW Sec. 7-T31N-R9W
San Juan County, N. Mexico

Gentlemen:

Please be advised that EL PASO NATURAL GAS CO. has no objections to Union Texas Petroleum's request to down hole commingle production from the Fruitland and Pictured Cliffs reservoirs in the captioned well.

Carl E. Matthews
SIGNED

Regional Production Mgr.
TITLE

1/28/80
DATE

BEFORE EXAMINER STAMETS OIL CONSERVATION DIVISION	
EXHIBIT NO.	<u>2</u>
CASE NO.	<u>6840</u>
Submitted by	<u>Union Texas Petroleum</u>
Hearing Date	<u>3-26-80</u>



Union Texas Petroleum Division
Suite 1010 Lincoln Tower
1880 Lincoln Street
Denver, Colorado 80295

January 14, 1980

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

RE: Union Texas Petroleum
Johnston Federal #11Y
SE SW Sec. 7-T31N-R9W
San Juan County, N. Mexico

Gentlemen:

Please be advised that KOCH INDUSTRIES, INC. has no objections to Union Texas Petroleum's request to down hole commingle production from the Fruitland and Pictured Cliffs reservoirs in the captioned well.

J. J. J.
SIGNED

Vice President of Production
TITLE

1/21/80
DATE

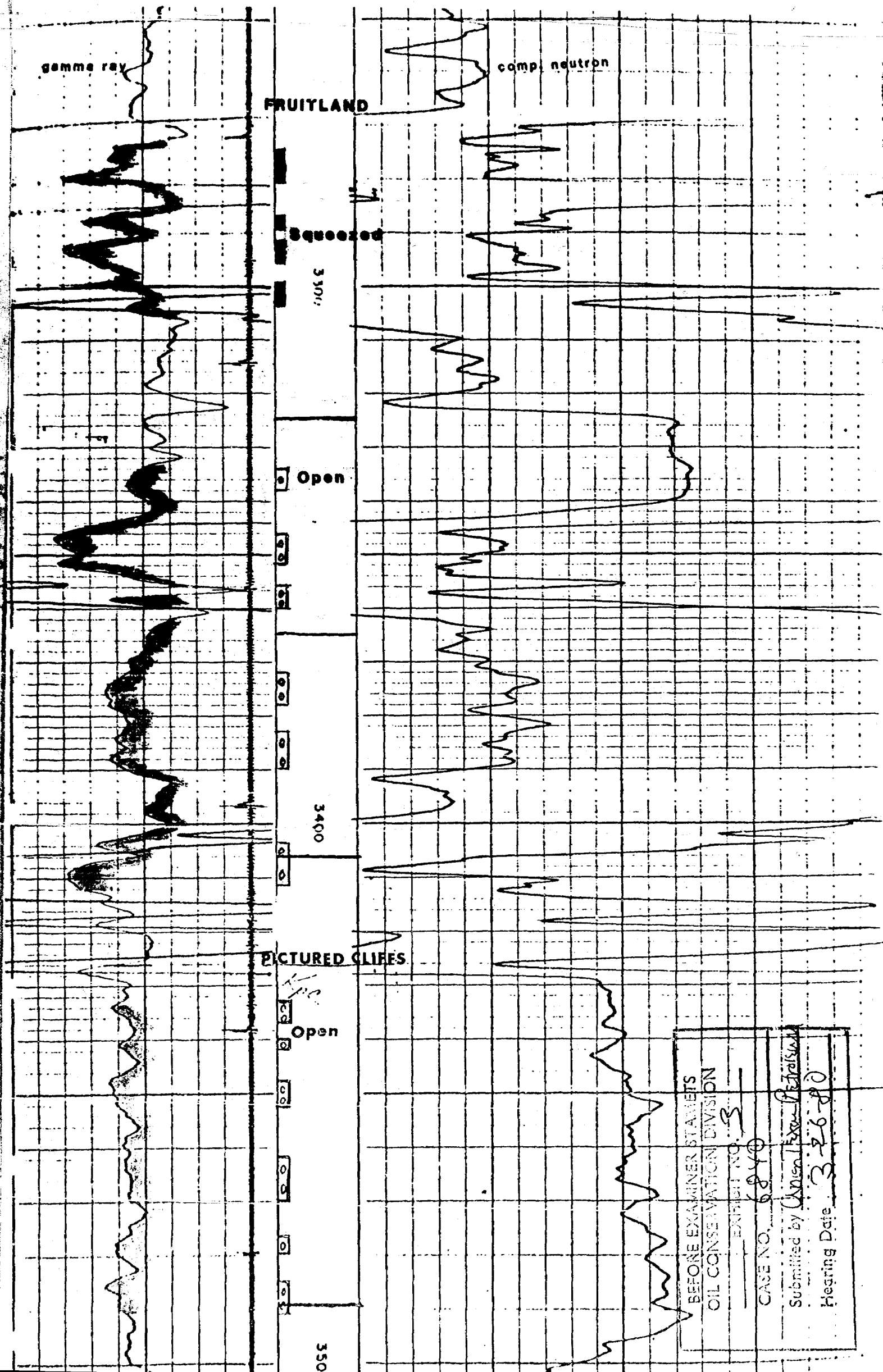
BEFORE EXAMINER STAMETS
OIL CONSERVATION DIVISION

EXHIBIT NO. 2

CASE NO. 6840

Submitted by Union Texas Petroleum

Hearing Date 3-26-80



BEFORE EXAMINER STATEMENTS
OIL CONSERVATION DIVISION
EXHIBIT NO. 3
CASE NO. 6840
Submitted by Union Texas Petroleum
Hearing Date 3-26-80

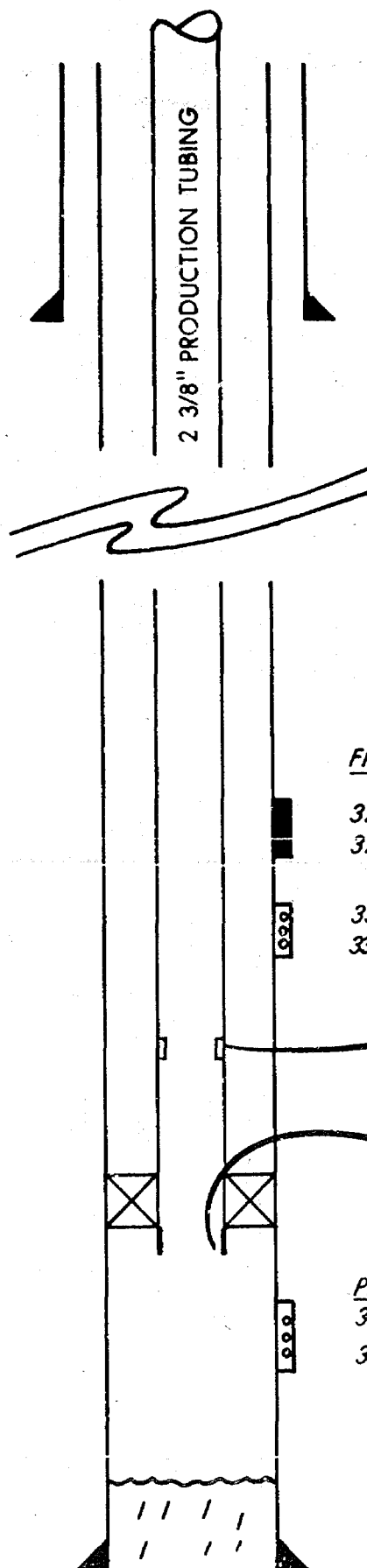
EXHIBIT 4

UNION TEXAS PETROLEUM CORP.

JOHNSTON FEDERAL # 11-Y

SE SW 7 - T. 31 N. - R. 9 W.

DATUM: 6622' (KB) 10' AGL



9 5/8" Casing cemented at 334' (KB) with 200 sx. (cement circulated)

FRUITLAND PERFS:

3275-3281'; 3286-3289' } Squeezed off with 300 sx. cement
3292-3296'; 3299-3304'

3334-3338'; 3346-3352'; 3356-3360'
3372-3378'; 3383-3390'; 3404-3412'

SLIDING SLEEVE (CLOSED) at 3416'

"F" NIPPLE at 3429'

BAKER MOD. "F" at 3420' (KB)

PICTURED CLIFFS PERFS:

3433-3436'; 3440-3442'; 3447-3453'
3462-3470'; 3476-3480'; 3485-3491'

P.B.T.D. 3644' (KB)

5 1/2" Casing cemented at 3654' (KB) with 1200 sx.

BEFORE EXAMINER STAMETS OIL CONSERVATION DIVISION	EXHIBIT NO. <u>4</u>
	CASE NO. <u>6840</u>
	Submitted by <u>Union Texas Petroleum</u> Hearing Date <u>3-26-80</u>

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator Union Texas Petroleum Lease Johnston Federal Well No. 11-Y
Location Unit N Sec. 7 Twp. 31N Rge. 9W County San Juan

	Name of Reservoir or Pool	Type of Prod. (Oil or Gas)	Method of Prod. (Flow or Art. Lift)	Prod. Medium (Tbg. or Csg.)
Upper Completion	Fruitland	Gas	Flow	Casing
Lower Completion	Blanco Pictured Cliff	Gas	Flow	Tubing

PRE-FLOW SHUT-IN PRESSURE DATA

Upper Completion	Hour, date	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)
	Shut-in 12-5-79	7 days	718	Yes
Lower Completion	Hour, date	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)
	Shut-in 12-5-79	7 days	718	Yes

FLOW TEST NO. 1

Commenced at (hour, date)*		Pressure		Prod. Zone	Remarks
Time (hour, date)	Lapsed time since*	Upper Compl.	Lower Compl.	Temp.	
12-12-79 1:30 p.m.	0-days 15-min	718	718		BEFORE EXAMINER STAMETS OIL CONSERVATION DIVISION EXHIBIT NO. <u>5</u> CASE NO. <u>6840</u> Submitted by <u>Union Texas Petroleum</u> Hearing Date <u>3-26-80</u>
	30-min	62	345		
	45-min	51	313		
	1-hour	47	289		
	2-hours	42	265		
	3-hours	38	250		

Production rate during test

Oil: 604 BOPD based on MCPPD Tested thru (Orifice or Meter): 3/4 positive choke
Gas: 604 BOPD based on MCPPD Tested thru (Orifice or Meter): 3/4 positive choke

MID-TEST SHUT-IN PRESSURE DATA

Upper Completion	Hour, date	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)
	Shut-in 12-12-79	7 days	697	Yes
Lower Completion	Hour, date	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)
	Shut-in 12-5-79	14 days	697	Yes

FLOW TEST NO. 2

Commenced at (hour, date)**		Pressure		Prod. Zone	Remarks
Time (hour, date)	Lapsed time since **	Upper Compl.	Lower Compl.	Temp.	
12-19-79 4: p.m.	0 days 15 min	697	697		JAN 14 1980 OIL CONSERVATION DIST. 5
	30 min	460	236		
	30 min	409	162		
	45 min	387	150		
	1-hour	359	148		
	2-hours	341	128		
	3-hours	323	118		

Production rate during test

Oil: 1572 BOPD based on MCPPD Tested thru (Orifice or Meter): 3/4 positive choke
Gas: 1572 BOPD based on MCPPD Tested thru (Orifice or Meter): 3/4 positive choke

REMARKS:

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

Approved: Not Approved 19 80
New Mexico Oil Conservation Commission

By Repair Requested

Title _____

Operator Union Texas Petroleum

By Ronald Miller

Title District Production Manager

Date January 8, 1980

Union Texas Petroleum
Johnston Federal #11-Y
SESW Section 7, T31N, R9W
San Juan County, New Mexico

Elledge Consulting & Production Company

EXHIBIT 6

COMPLETION SUMMARY

- 10-11-79 Move in completion rig. Ran 4 $\frac{1}{2}$ " bit, 5 $\frac{1}{2}$ " casing scraper and 117 jts 2 3/8" tubing and tagged bottom at 3523' KB.
- 10-12-79 Pressure tested casing to 3000 psi, 5 minutes, held OK. Rolled hole to 2% KCL water. Pull tubing. Perforated Pictured Cliffs 1 JSPF 3433-36, 3440-42, 3447-53, 3462-70, 3476-80, and 3485-91. Ran packer, "F" nipple, and 102 jts tubing all measuring 3178' and set packer at 3182' KB. Acidized with 1500 gallons 7 $\frac{1}{2}$ % HCL and 50 ball sealers. AIR 7.6 bpm at 2575 psi. Poor ball action. ISIP zero psi. Released packer, lowered through perforations and raised packer to 3182, left packer unset, and swabbed 14 BLW in 1 $\frac{1}{2}$ hrs.
- 10-13-79 Tubing on slight vacuum. IFL 1300'. Swabbed 4 $\frac{1}{2}$ hrs and recovered 46 BLW. FFL 2100'. Have a slight blow of gas. Final CP 25 psi. Pull out of hole.
- 10-14-79 SICP 500 psi. Foam fracked with 96,000 lbs 10/20 sand. AIR 30 bpm at 1500 psi. ISIP 1450 psi. Opened well through 3/4" choke and after 6 hrs, FCP 100 psi, rate 1.385 MMCFPD. Left open overnight.
- 10-15-79 Flow well through 3/4" choke. Rate 1.385 MMCFPD. Still wet.
- 10-16-79 SICP 635 psi. Set wireline and bridge plug at 3420' KB. Dumped 5 gallons sand on plug. Perforated Fruitland 1 JSPF 3275-81, 3286-89, 3292-96, 3299-3304, 3334-38, 3346-52, 3356-60, 3372-78, 3383-90, 3404-12. Measured gas flow at 1.385 MMCFPD. Ran packer and 106 jts tubing and set packer at 3319' KB. Acidize with 2500 gallons 15% HCL and 60 ball sealers. AIR 3.3 bpm at 2600 psi. Good ball action. Pull out of hole with packer. Ran bridge plug and packer and set bridge plug 3319 and packer at 3207. Acidized with 1500 gallons 15% HCL and 30 balls. Poor ball action. AIR 4 bpm at 1100 psi. ISIP 500 psi. Unseated packer and SI for night.
- 10-17-79 SITP 1100 psi, SICP 100 psi. Lower tubing and latch onto bridge plug and pull out of hole. Ran tubing and landed at 3365' KB. SI for night.
- 10-18-79 Tubing on slight vacuum. SICP zero psi. IFL 50'. Swabbed 81 BLW in 8 hrs ending at 5 p.m. FFL 1200'. Final CP 500 psi. SI for night.
- 10-19-79 SICP 1065 psi, SITP 125 psi. Swabbed and flowed all day. Too wet to burn. Left open on 2" overnight.
- 10-20-79 FCP 125 psi with good blow out 2". Installed 3/4" choke, and after 8 hrs thru cheke, FCP 150 psi, FTP 35 psi, rate 581 MCFPD. Too wet to burn.
- 10-21-79 FCP 124 psi, FTP 25 psi, rate 457 MCFPD. Too wet to burn. Left open on 3/4" choke overnight.
- 10-22-79 FCP psi, FTP 20 psi, rate 396 MMCFPD. Too wet to burn. Circulated bridge plug clean and retrieve bridge plug at 3420' KB. Attempt to run packer, could not get in hole. Gas rate 1.4 MMCFPD with FP 100 psi on 3/4" choke.
- 10-23-79 FP 100 psi, rate 1.4 MMCFPD. Too wet to burn. Set drillable bridge plug at 3320' KB. Ran packer to 3246' and tested back side to 1500 psi, 7 min, OK.

Union Texas Petroleum
Johnston Federal #11-Y
SESW Section 7, T31N, R9W
San Juan County, New Mexico

Elledge Consulting & Production Company

COMPLETION SUMMARY CONTINUED

Set packer at 3059' and pumped down tubing at 5 1/2 bpm at 1400 psi and had full returns out bradenhead. SI for night.

- 10-24-79 Pressured casing to 1000 psi. Squeezed perfs from 3304 to 3275 with 300 sx Class "B" with 2% calcium chloride. Squeezed to 2150 psi. Pull out of hole with packer and SI for night.
- 10-25-79 Squeezed bradenhead with 50 sx Class "B" with 2% calcium chloride. 3 bpm at 700 psi. Ran 4 1/2" bit and 102 jts tubing and tagged cement at 3135' KB. Drilled out to bridge plug at 3320. Pressured 1300 psi, 15 minutes, held OK. Pulled 2 stands tubing. SI for night.
- 10-26-79 Slight pressure on bradenhead. Bled right off. Bradenhead OK. SICP and TP zero. Drilled bridge plug at 3320'. Lowered tubing and tagged sand fill at 3460'. Drilled out to 3470'. Pulled 5 stands tubing and SI for night.
- 10-27-79 Lowered tubing and tagged fill at 3468'. Cleaned out to 3486' and lost circulation. Lost 100 bbls. Cleaned out to 3644. Pull out of hole. Ran 113 jts tubing totaling 3516' and landed at 3518' KB. Rig up to swab. IFL 100'. Recovered 21 BLW in 2 runs and SI for weekend.
- 10-28-79 Sunday- Crew off.
- 10-29-79 SITP zero, SICP 800 psi. IFL 200'. Made 18 runs, well kicked off flowing. Measured gas at 766 MCFD with FTP 50 psi, FCP 425 psi.
- 10-30-79 After flowing 18 hrs through 3/4" choke, FCP 275 psi, FTP 40 psi, rate 643 MCFPD. Landed tubing at 3515. Nipple down BOP and nipple up tree. SI for night.
- 10-31-79 SICP 650 psi, SITP 175 psi. Flowed 8 hrs on 3/4" choke, FCP 210 psi, FTP 54 psi, rate 816 MCFPD. Making heavy spray of water.
- 11-1-8-79 Blew well intermittently to clean up: Typical date: SICP 650 psi, SITP 580 psi. Flow 3 hrs thru 3/4" choke, FTP 60 psi, FCP 200 psi, rate 890 MCFPD. Burned continuously but still slightly wet.
- 11-9-21-79 SICP 650 psi, SITP 620 psi.
- 11-21-79 Bled well down. Move in rig. Pull tubing. Ran HALCO RTTS packer and 110 jts tubing and set packer at 3424' KB. Opened tubing (Pictured Cliffs) on 3/4" choke. After 45 minutes FTP 70 psi, FCP 25 psi, rate 1014 MCFPD with moderate spray of water. SI for Thanksgiving.
- 11-22-79 Thanksgiving-Crew off
- 11-23-79 SICP 1000 psi, SITP 610 psi. Flowed tubing 9 hrs through 3/4" choke, FTP 56 psi, FCP 1120 psi, rate 841 MCFPD. Burned 95% of time. SI for night.
- 11-24-79 SICP 1140 psi, SITP 630 psi. Blew casing and tubing for 9 hrs. FTP 58 psi, rate 866 MCFPD. FCP zero, only 2' flare out casing. SI for weekend.
- 11-25-79 Sunday-Crew off

Union Texas Petroleum
Johnston Federal #11-Y
SESW Section 7, T31N, R9W
San Juan County, New Mexico

Elledge Consulting & Production Company

COMPLETION SUMMARY CONTINUED

- 11-26-79 SICP 1150 psi, SITP 640 psi. Bled well down. Released RTTS packer. Unloaded lots of water. Pull packer out of hole. Run HALCO retrievable bridge plug and new RTTS packer and set bridge plug at 3423' KB and RTTS at 3241' KB. Flowed tubing (Fruitland) thru 3/4" choke. FTP 2 psi, rate 173 MCFPD. Ran swab. IFL 3000'. Recovered 20' of water. 2nd run - no recovery. After 2 hrs flowing FTP 2 psi, rate 173 MCFPD. SI for night.
- 11-27-79 SITP 1150 psi, SICP 10 psi. Bled tubing to zero in 10 minutes, did flare. Lowered RTTS packer to 3217' KB. Rig up HALCO and acidized Fruitland with 4000 gallons 15% HCL and flushed with 14 bbl 2% KCL water. AIR 5 bpm at 2200 psi. BDP 3800 psi. ISIP 400 psi, 5 min SIP zero. Total load water to be recovered 109 bbls. Rig up to swab. IFL 1000'. Made 13 runs and recovered 75 BLW and well kicked off flowing. Installed 3/4" choke. After flowing 45 minutes, FTP 45 psi, rate 705 MCFPD. Too wet to burn. Left open overnight.
- 11-28-79 Well flowed overnight, FTP 57 psi, 853 MCFPD. Released packer and lowered tubing to 3414' KB and left packer unset. Flowed well out casing 5 hrs, FCP 43 psi, TP 300 psi, rate 680 MCFPD, burned continuously. Left well open overnight.
- 11-29-79 Well flowed overnight, FCP 50 psi, TR 350 psi, rate 767 MCFPD. Bled well down, latch onto bridge plug at 3423' KB and pull out of hole. Rig up McCullough and set Baker Model "F" packer at 3420' KB. Ran Production tubing as follows:

	Baker Production tube	5.06'
	Baker 1.78 "F" nipple	.96'
	Sub 2 3/8"	6.05'
	Seal Section	2.80'
	Locator	.75'
	Baker Model "L" sliding sleeve	2.65'
108	jts 2 3/8" tubing	3360.53'
	Sub 2 3/8"	8.18'
	Sub 2 3/8"	4.10'
	Sub 2 3/8"	4.10'
1	jt 2 3/8" tubing	30.69'
109		14.87'
		3411.00'
	landed below KB	9.00'
	packer at	3420.00' KB

End of production tube at 3435' KB. Tubing landed with 8000 lbs on packer. Top of "F" nipple at 3429' KB. Top of sliding sleeve at 3417' KB. Nipple down BOP and nipple up tree. Rig up and pump out plug in "F" nipple. SI for night.

- 11-30-79 SICP and TP 665 psi. Pressures communicated. Flowed tubing (Pictured Cliffs) 7 hrs, thru 3/4" choke, FTP 68 psi, rate 989 MCFPD. Flowed casing (Fruitland) 7 hrs, thru 3/4" choke, FCP 7 psi, rate 235 MCFPD. Release rig and SI well.

- 12-1-79 SICP and TP 675 psi. Bled casing through 3/4" choke 1/2 hour, CP 130 psi, TP fell to 350 psi. Rig up to check that sleeve is closed. It was closed. Set blanking plug in "F" nipple.

Union Texas Petroleum
Johnston Federal #11-Y
SESW Section 7, T31N, R9W
San Juan County, New Mexico

Elledge Consulting & Production Company

COMPLETION SUMMARY CONTINUED

12-2-79 Sunday-Crew off

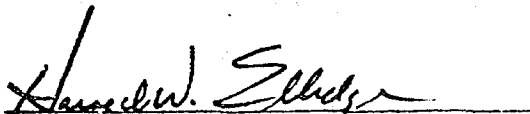
12-3-79 Made in pulling unit. CP 700 psi, TR 70 psi. Nipple up BOP. Pulled out of hole hot. SI for night.

12-4-79 SICP 650 psi. Ran final production tubing as follows:

	Baker production tube	5.06'	
	Baker 1.78" ID "F" nipple	.96'	
	Sub 2 3/8"	6.05'	
	Seal section	3.56'	
	Locator		.75'
	Sliding Sleeve		2.62'
1	jt 2 3/8" tubing		31.23'
	Blast jt.		19.84'
	Blast jt.		19.34'
106	jt 2 3/8" tubing		3301.78'
	Sub 2 3/8"		2.20'
	Sub 2 3/8"		4.10'
1	jt 2 3/8" tubing		29.14'
108	jts	15.63'	3411.00'
	landed below KB		9.00'
	packer at		3420.00' KB

Packer has 8000 lbs set on it. End of production tube at 3436' KB. Top of "F" nipple at 3430' KB. Top of sliding sleeve 3417' KB. Blast joint from 3385' to 3346'. Nipple down BOP, nipple up tree. SI for night.

12-5-79 Rig up and fish plug out of "F" nipple. Rig down rig. SICP 670 psi, SICP 692 psi. Flowed tubing 3 hrs thru 3/4" choke, FTP 100 psi, rate 1385 MCFPD. Casing pressure bled to 270 psi. SI pending orders.


Harold W. Elledge, P.E.
Petroleum Engineer

HWE/jr

BEFORE EXAMINER STAMETS
OIL CONSERVATION DIVISION

EXHIBIT NO. 76

CASE NO. 6840

Submitted by Union Texas Petroleum

Hearing Date 3-26-80

UNION TEXAS PETROLEUM
JOHNSTON FEDERAL 11 - Y
PROPOSED ALLOCATION FORMULA

The following is Union Texas Petroleum's proposal for an allocation formula for the Fruitland and Pictured Cliffs Formations in the captioned well. Should this formula be unacceptable to the New Mexico Oil Conservation Division, Union Texas Petroleum will gladly work with the state to establish a suitable formula.

NOTE: Royalty owners and working interest owners are common and equal for both formations.

~~It is proposed that allocation of production to the Fruitland Formation be based on observed Fruitland flowing rates during completion and observed Fruitland decline rates for several wells in the area.~~

1. Last observed Fruitland flow rate on 11/26/79 - 173 MCFPD
2. Predicted Fruitland decline rate - 40% First Year
- 12% Thereafter
3. Proposed allocation by year (MCF/month) with the stipulation that Fruitland allocated production does not exceed 20% of the total commingled production.

<u>YEAR</u>	<u>FRUITLAND ALLOCATION MCF/MONTH</u>
1980 (1st Production June)	4659
1981	3252
1982	2740
1983	2411
1984	2122
1985	1867
1986	1643
1987	1446
1988	1273
1989	1120
1990	986
1991	867
1992	763
1993	672
1994	591
1995	520
1995 +	0

BEFORE EXAMINER STAMETS OIL CONSERVATION DIVISION	
EXHIBIT NO. <u>7</u>	CASE NO. <u>68Y0</u>
Submitted by <u>Union Texas Petroleum</u>	
Hearing Date <u>3-26-80</u>	

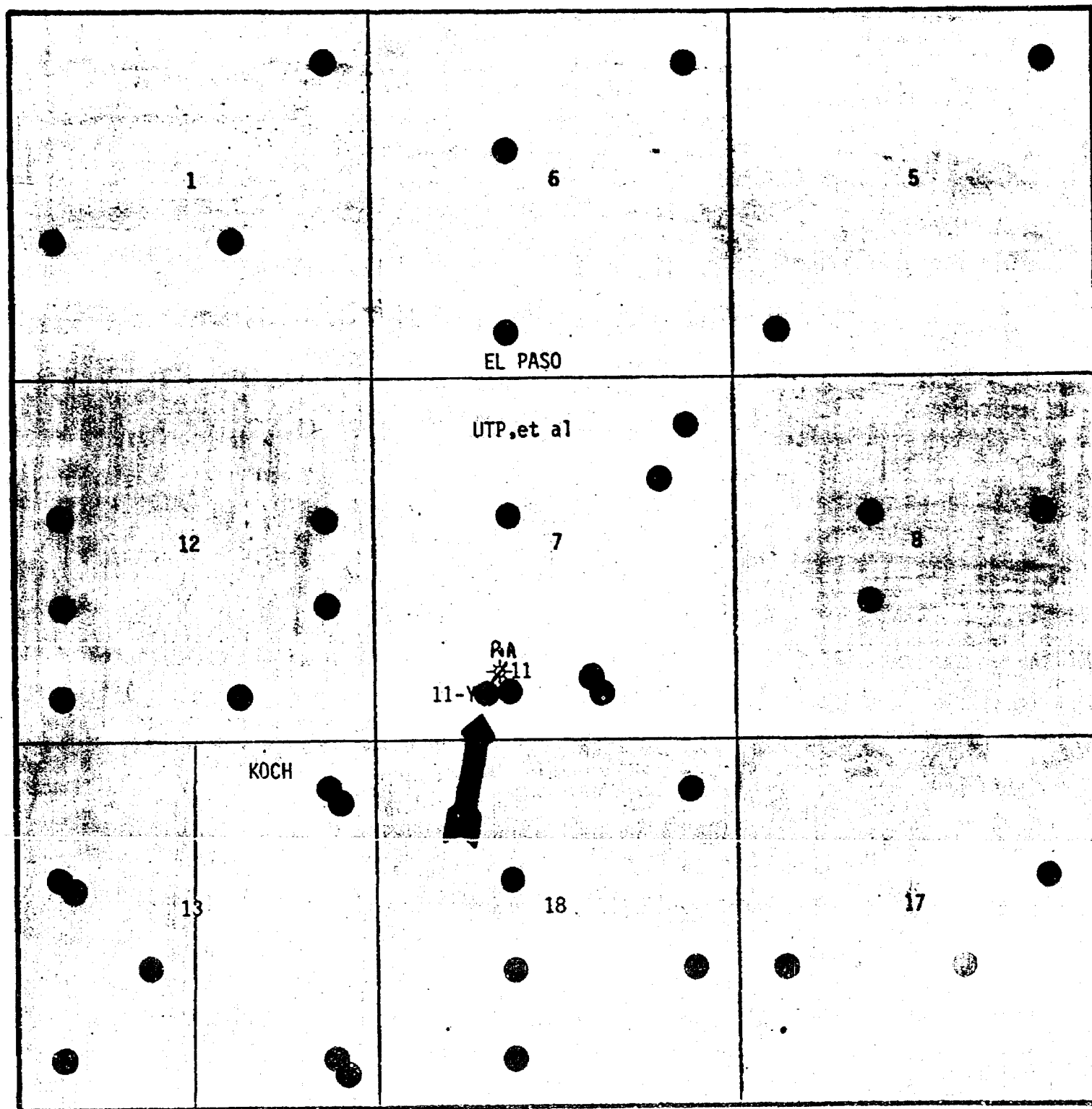
DOWNHOLE COMMINGLING
JOHNSTON FEDERAL #11-Y
UNION TEXAS PETROLEUM

MARCH 26, 1980

CASE 6840

EXHIBITS FOR

EXHIBIT 1



R-10-W R-9-W

31 N 9W

BEFORE EXAMINER STAMPS
OIL CONSERVATION DIVISION

1 mile

EXHIBIT NO. 1

Scale: 1" = 2000'

CASE NO. 6840

Submitted by Union Texas Petroleum

Hearings to 3-26-80

- - P.C. producer
- - MV producer



Union Texas Petroleum Division
Suite 1010 Lincoln Tower
1850 Lincoln Street
Denver, Colorado 80295

EXHIBIT 2

January 14, 1980

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

RE: Union Texas Petroleum
Johnston Federal #11Y
SE SW Sec. 7-T31N-R9W
San Juan County, N. Mexico

Gentlemen:

Please be advised that EL PASO NATURAL GAS CO. has no objections to Union Texas Petroleum's request to down hole commingle production from the Fruitland and Pictured Cliffs reservoirs in the captioned well.

Carl J. Mackewe
SIGNED

Regional Production Mgr.
TITLE

1/28/80
DATE

BEFORE EXAMINER STAMETS
OIL CONSERVATION DIVISION

EXHIBIT NO. 2

CASE NO. 6840

Submitted by Union Texas Petroleum

Hearing Date 3-26-80



Union Texas Petroleum Division
Suite 1010 Lincoln Tower
1830 Lincoln Street
Denver, Colorado 80295

January 14, 1980

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

RE: Union Texas Petroleum
Johnston Federal #11Y
SE SW Sec. 7-T31N-R9W
San Juan County, N. Mexico

Gentlemen:

Please be advised that KOCH INDUSTRIES, INC. has no objections to Union Texas Petroleum's request to down hole commingle production from the Fruitland and Pictured Cliffs reservoirs in the captioned well.

SIGNED

Vice President of Production
TITLE

1/21/80
DATE

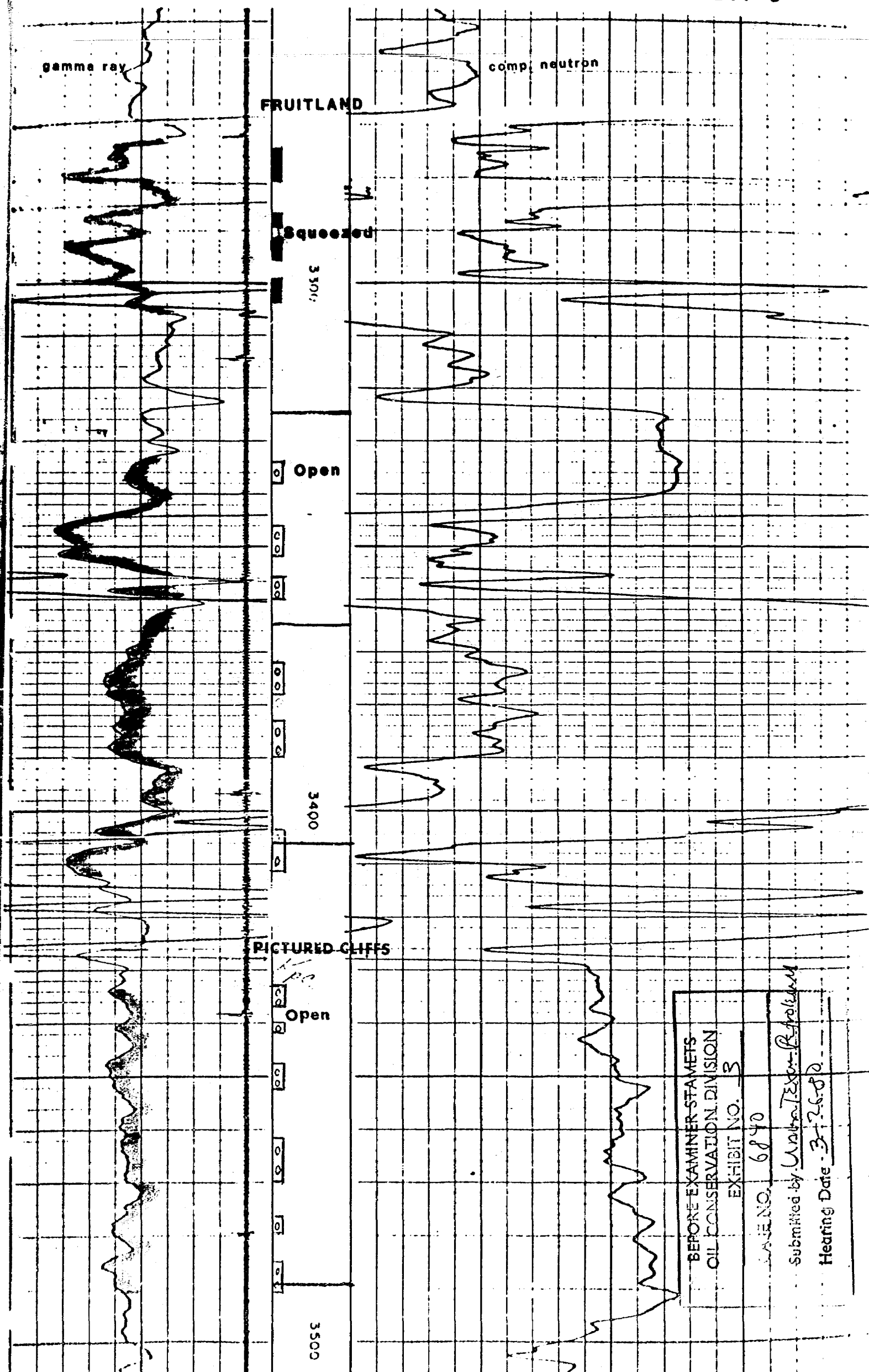
BEFORE EXAMINER STAMETS
OIL CONSERVATION DIVISION

EXHIBIT NO. 2

CASE NO. 6840

Submitted by Union Texas Petroleum

Hearing Date 3-26-80



BEFORE EXAMINER-STATUTES
OIL CONSERVATION DIVISION

EXHIBIT NO. 3

CASE NO. 6840

Submitted by Union Texas Petroleum

Hearing Date 3-26-80

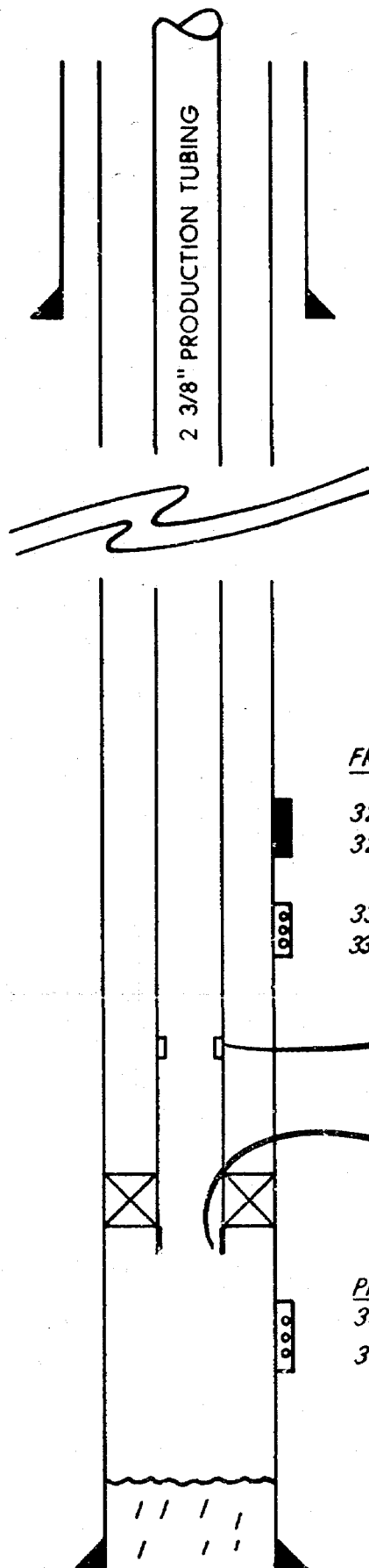
EXHIBIT 4

UNION TEXAS PETROLEUM CORP.

JOHNSTON FEDERAL # 11-Y

SE SW 7 - T. 31 N. - R. 9 W.

DATUM: 6622' (KB) 10' AGL



9 5/8" Casing cemented at 334' (KB) with 200 sx. (cement circulated)

FRUITLAND PERFS:

3275-3281'; 3286-3289' } Squeezed off with 300 sx. cement
3292-3296'; 3299-3304' }

3334-3338'; 3346-3352'; 3356-3360'
3372-3378'; 3383-3390'; 3404-3412'

SLIDING SLEEVE (CLOSED) at 3416'

"F" NIPPLE at 3429'

BAKER MOD. "F" at 3420' (KB)

PICTURED CLIFFS PERFS:

3433-3436'; 3440-3442'; 3447-3453'
3462-3470'; 3476-3480'; 3485-3491'

P.B.T.D. 3644' (KB)

5 1/2" Casing cemented at 3654' (KB) with 1200 sx.

BEFORE EXAMINER STAMETS OIL CONSERVATION DIVISION	EXHIBIT NO. <u>4</u>
CASE NO. <u>6870</u>	Submitted by <u>Union Texas Petroleum</u>
Hearing Date <u>3-26-80</u>	

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator Union Texas Petroleum Lease Johnston Federal Well No. 11-V
 Location of Well: Unit N Sec. 7 Twp. 31N Rge. 9W County San Juan
 Name of Reservoir or Pool Fruitland Type of Prod. Gas Method of Prod. Flow Prod. Medium Casing
 (Oil or Gas) (Flow or Art. Lift) (Thg. or Csg.)

Upper Completion	<u>Fruitland</u>	<u>Gas</u>	<u>Flow</u>	<u>Casing</u>
Lower Completion	<u>Blanco Pictured Cliff</u>	<u>Gas</u>	<u>Flow</u>	<u>Tubing</u>

PRE-FLOW SHUT-IN PRESSURE DATA

Upper Compl	Hour, date Shut-in <u>12-5-79</u>	Length of time shut-in <u>7 days</u>	SI press. <u>psig 718</u>	Stabilized? (Yes or No) <u>Yes</u>
Lower Compl	Hour, date Shut-in <u>12-5-79</u>	Length of time shut-in <u>7 days</u>	SI press. <u>psig 718</u>	Stabilized? (Yes or No) <u>Yes</u>

FLOW TEST NO. 1

Commenced at (hour, date)* <u>12-12-79</u>		Zone producing (<u>Upper</u> or Lower):			
Time (hour, date)	Lapsed time since*	Pressure		Prod. Zone Temp.	Remarks
<u>12-12-79</u>	<u>0-days</u>	<u>718</u>	<u>718</u>		
<u>1:30 p.m.</u>	<u>15-min</u>	<u>81</u>	<u>403</u>		
	<u>30-min</u>	<u>62</u>	<u>345</u>		
	<u>45-min</u>	<u>51</u>	<u>318</u>		
	<u>1-hour</u>	<u>47</u>	<u>289</u>		
	<u>2-hours</u>	<u>42</u>	<u>265</u>		
	<u>3-hours</u>	<u>38</u>	<u>250</u>		

Production rate during test

Oil: 604 BOPD based on MCFPD Tested thru (Orifice or Meter): 3/4 positive choke
 Gas: 604 BOPD based on MCFPD Tested thru (Orifice or Meter): 3/4 positive choke

MID-TEST SHUT-IN PRESSURE DATA

Upper Compl	Hour, date Shut-in <u>12-12-79</u>	Length of time shut-in <u>7 days</u>	SI press. <u>psig 697</u>	Stabilized? (Yes or No) <u>Yes</u>
Lower Compl	Hour, date Shut-in <u>12-5-79</u>	Length of time shut-in <u>14 days</u>	SI press. <u>psig 697</u>	Stabilized? (Yes or No) <u>Yes</u>

FLOW TEST NO. 2

Commenced at (hour, date)**		Zone producing (Upper or <u>Lower</u>):			
Time (hour, date)	Lapsed time since **	Pressure		Prod. Zone Temp.	Remarks
<u>12-19-79</u>	<u>0 days</u>	<u>697</u>	<u>697</u>		
<u>4: p.m.</u>	<u>15 min</u>	<u>460</u>	<u>236</u>		
	<u>30 min</u>	<u>409</u>	<u>162</u>		
	<u>45 min</u>	<u>387</u>	<u>150</u>		
	<u>1-hour</u>	<u>359</u>	<u>148</u>		
	<u>2-hours</u>	<u>341</u>	<u>128</u>		
	<u>3-hours</u>	<u>323</u>	<u>118</u>		

Production rate during test

Oil: 1572 BOPD based on MCFPD Tested thru (Orifice or Meter): 3/4 positive choke
 Gas: 1572 BOPD based on MCFPD Tested thru (Orifice or Meter): 3/4 positive choke

REMARKS:

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

Approved: Not Approved 19
 New Mexico Oil Conservation Commission
 By Repair Requested
 Title _____

Operator Union Texas Petroleum
 By Ronald Miller
 Title District Production Manager
 Date January 8, 1980

Union Texas Petroleum
Johnston Federal #11-Y
SESW Section 7, T31N, R9W
San Juan County, New Mexico

Elledge Consulting & Production Company

EXHIBIT 6

COMPLETION SUMMARY

10-11-79 Move in completion rig. Ran 4 $\frac{1}{2}$ " bit, 5 $\frac{1}{2}$ " casing scraper and 117 jts 2 3/8" tubing and tagged bottom at 3523' KB.

10-12-79 Pressure tested casing to 3000 psi, 5 minutes, held OK. Rolled hole to 2% KCL water. Pull tubing. Perforated Pictured Cliffs 1 JSPF 3433-36, 3440-42, 3447-53, 3462-70, 3476-80, and 3485-91. Ran packer, "F" nipple, and 102 jts tubing all measuring 3178' and set packer at 3182' KB. Acidized with 1500 gallons 7 $\frac{1}{2}$ % HCL and 50 ball sealers. AIR 7.6 bpm at 2575 psi. Poor ball action. ISIP zero psi. Released packer, lowered through perforations and raised packer to 3182, left packer unset, and swabbed 14 BLW in 1 $\frac{1}{2}$ hrs.

10-13-79 Tubing on slight vacuum. IFL 1300'. Swabbed 4 $\frac{1}{2}$ hrs and recovered 46 BLW. FFL 2100'. Have a slight blow of gas. Final CP 25 psi. Pull out of hole.

10-14-79 SICP 500 psi. Foam fracked with 96,000 lbs 10/20 sand. AIR 30 bpm at 1500 psi. ISIP 1450 psi. Opened well through 3/4" choke and after 6 hrs, FCP 100 psi, rate 1.385 MMCFPD. Left open overnight.

10-15-79 Flow well through 3/4" choke. Rate 1.385 MMCFPD. Still wet.

10-16-79 SICP 635 psi. Set wireline and bridge plug at 3420' KB. Dumped 5 gallons sand on plug. Perforated Fruitland 1 JSPF 3275-81, 3286-89, 3292-96, 3299-3304, 3334-38, 3346-52, 3356-60, 3372-78, 3383-90, 3404-12. Measured gas flow at 1.385 MMCFPD. Ran packer and 106 jts tubing and set packer at 3319' KB. Acidized with 2500 gallons 15% HCL and 60 ball sealers. AIR 3.3 bpm at 2600 psi. Good ball action. Pull out of hole with packer. Ran bridge plug and packer and set bridge plug 3319 and packer at 3207. Acidized with 1500 gallons 15% HCL and 30 balls. Poor ball action. AIR 4 bpm at 1100 psi. ISIP 500 psi. Unseated packer and SI for night.

10-17-79 SITP 1100 psi, SICP 100 psi. Lower tubing and latch onto bridge plug and pull out of hole. Ran tubing and landed at 3365' KB. SI for night.

10-18-79 Tubing on slight vacuum. SICP zero psi. IFL 50'. Swabbed 81 BLW in 8 hrs ending at 5 p.m. FFL 1200'. Final CP 500 psi. SI for night.

10-19-79 SICP 1065 psi, SITP 125 psi. Swabbed and flowed all day. Too wet to burn. Left open on 2" overnight.

10-20-79 FCP 125 psi with good blow out 2". Installed 3/4" choke, and after 8 hrs thru choke, FCP 150 psi, FTP 35 psi, rate 581 MCFPD. Too wet to burn.

10-21-79 FCP 124 psi, FTP 25 psi, rate 457 MCFPD. Too wet to burn. Left open on 3/4" choke overnight.

10-22-79 FCP psi, FTP 20 psi, rate 396 MMCFPD. Too wet to burn. Circulated bridge plug clean and retrieve bridge plug at 3420' KB. Attempt to run packer, could not get in hole. Gas rate 1.4 MMCFPD with FP 100 psi on 3/4" choke.

10-23-79 FP 100 psi, rate 1.4 MMCFPD. Too wet to burn. Set drillable bridge plug at 3320' KB. Ran packer to 3246' and tested back side to 1500 psi, 7 min, OK.

Union Texas Petroleum
Johnston Federal #11-Y
SESW Section 7, T31N, R9W
San Juan County, New Mexico

Elledge Consulting & Production Company

COMPLETION SUMMARY CONTINUED

Set packer at 3059' and pumped down tubing at 5 $\frac{1}{2}$ bpm at 1400 psi and had full returns out bradenhead. SI for night.

10-24-79 Pressured casing to 1000 psi. Squeezed perfs from 3304 to 3375 with 300 sx Class "B" with 2% calcium chloride. Squeezed to 2150 psi. Pull out of hole with packer and SI for night.

10-25-79 Squeezed bradenhead with 50 sx Class "B" with 2% calcium chloride. 3 bpm at 700 psi. Ran 4 $\frac{1}{2}$ " bit and 102 jts tubing and tagged cement at 3135' KB. Drilled out to bridge plug at 3320. Pressured 1300 psi, 15 minutes, held OK. Pulled 2 stands tubing. SI for night.

10-26-79 Slight pressure on bradenhead. Bled right off. Bradenhead OK. SICP and TP zero. Drilled bridge plug at 3320'. Lowered tubing and tagged sand fill at 3460'. Drilled out to 3470'. Pulled 5 stands tubing and SI for night.

10-27-79 Lowered tubing and tagged fill at 3468'. Cleaned out to 3486' and lost circulation. Lost 100 bbls. Cleaned out to 3644. Pull out of hole. Ran 113 jts tubing totaling 3516' and landed at 3518' KB. Rig up to swab. IFL 100'. Recovered 21 BLW in 2 runs and SI for weekend.

10-28-79 Sunday- Crew off.

10-29-79 SITP zero, SICP 800 psi. IFL 200'. Made 18 runs, well kicked off flowing. Measured gas at 766 MCF with FTP 50 psi, FCP 425 psi.

10-30-79 After flowing 18 hrs through 3/4" choke, FCP 275 psi, FTP 40 psi, rate 643 MCFPD. Landed tubing at 3515. Nipple down BOP and nipple up tree. SI for night.

10-31-79 SICP 650 psi, SITP 175 psi. Flowed 8 hrs on 3/4" choke, FCP 210 psi, FTP 54 psi, rate 816 MCFPD. Making heavy spray of water.

11-1-8-79 Blew well intermittently to clean up: Typical date: SICP 650 psi, SITP 580 psi. Flow 3 hrs thru 3/4" choke, FTP 60 psi, FCP 200 psi, rate 890 MCFPD. Burned continuously but still slightly wet.

11-9-21-79 SICP 650 psi, SITP 620 psi.

11-21-79 Bled well down. Move in rig. Pull tubing. Re-AMCO RTTS packer and 110 jts tubing and set packer at 3424' KB. Opened tubing (Pictured Cliffs) on 3/4" choke. After 45 minutes FTP 70 psi, FCP 25 psi, rate 1014 MCFPD with moderate spray of water. SI for Thanksgiving.

11-22-79 Thanksgiving-Crew off

11-23-79 SICP 1000 psi, SITP 610 psi. Flowed tubing 9 hrs through 3/4" choke, FTP 56 psi, FCP 1120 psi, rate 841 MCFPD. Burned 95% of time. SI for night.

11-24-79 SICP 1140 psi, SITP 630 psi. Blew casing and tubing for 9 hrs. FTP 58 psi, rate 866 MCFPD. FCP zero, only 2' flare out casing. SI for weekend.

11-25-79 Sunday-Crew off

Union Texas Petroleum
Johnston Federal #11-Y
SESW Section 7, T31N, R9W
San Juan County, New Mexico

Elledge Consulting & Production Company

COMPLETION SUMMARY CONTINUED

- 11-26-79 SICP 1150 psi, SITP 640 psi. Bled well down. Released RTTS packer. Unloaded lots of water. Pull packer out of hole. Ran HALCO retrievable bridge plug and new RTTS packer and set bridge plug at 3423' KB and RTTS at 3241' KB. Flowed tubing (Fruitland) thru 3/4" choke. FTP 2 psi, rate 173 MCFPD. Ran suab. IFL 3000'. Recovered 20' of water. 2nd run - no recovery. After 2 hrs flowing FTP 2 psi, rate 173 MCFPD. SI for night.
- 11-27-79 SITP 1150 psi, SICP 10 psi. Bled tubing to zero in 10 minutes, did flare. Lowered RTTS packer to 3417' KB. Rig up HALCO and acidized Fruitland with 4000 gallons 15% HCL and flushed with 14 bbl 2% KCl water. AIR 5 bpm at 2200 psi. BDP 2800 psi. ISIP 400 psi, 5 min SIP zero. Total load water to be recovered 109 bbls. Rig up to suab. IFL 1000'. Made 13 runs and recovered 75 RLW and well kicked off flowing. Installed 3/4" choke. After flowing 45 minutes, FTP 45 psi, rate 705 MCFPD. Too wet to burn. Left open overnight.
- 11-28-79 Well flowed overnight, FTP 57 psi, 853 MCFPD. Released packer and lowered tubing to 3414' KB and left packer unset. Flowed well out casing 5 hrs, FCP 43 psi, TP 300 psi, rate 680 MCFPD, burned continuously. Left well open overnight.
- 11-29-79 Well flowed overnight, FCP 50 psi, TR 350 psi, rate 767 MCFPD. Bled well down, latch onto bridge plug at 3423' KB and pull out of hole. Rig up McCullough and set Baker Model "F" packer at 3420' KB. Ran Production tubing as follows:

	Baker Production tube	5.06'	
	Baker 1.78 "F" nipple	.96'	
	Sub 2 3/8"	6.05'	
	Seal Section	2.80'	
	Locator	.75'	
	Paker Model "L" sliding sleeve	2.65'	
108	jts 2 3/8" tubing	3360.53'	
	Sub 2 3/8"	8.18'	
	Sub 2 3/8"	4.10'	
	Sub 2 3/8"	4.10'	
1	jt 2 3/8" tubing	30.69'	
109		14.87'	3411.00'
	landed below KB	9.00'	
	packer at	3420.00'	KB

End of production tube at 3435' KB. Tubing landed with 8000 lbs on packer. Top of "F" nipple at 3429' KB. Top of sliding sleeve at 3417' KB. Nipple down BOP and nipple up tree. Rig up and pump out plug in "F" nipple. SI for night.

- 11-30-79 SICP and TP 665 psi. Pressures communicated. Flowed tubing (Pictured Cliffs) 7 hrs, thru 3/4" choke, FTP 68 psi, rate 989 MCFPD. Flowed casing (Fruitland) 7 hrs, thru 3/4" choke, FCP 7 psi, rate 235 MCFPD. Release rig and SI well.

- 12-1-79 SICP and TP 675 psi. Bled casing through 3/4" choke 1/2 hour, CP 130 psi, TP fell to 350 psi. Rig up to check that sleeve is closed. It was closed. Set blanking plug in "F" nipple.

Union Texas Petroleum
Johnston Federal #11-1
SESW Section 7, T31N, R9W
San Juan County, New Mexico

Elledge Consulting & Production Company

COMPLETION SUMMARY CONTINUED

12-2-79 Sunday-Crew off

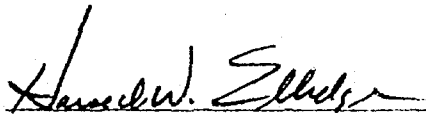
12-3-79 Move in pulling unit. CP 700 psi, Tr 70 psi. Nipple up BOP. Pulled out of hole hot. SI for night.

12-4-79 SICP 650 psi. Ran final production tubing as follows:

	Baker production tube	5.06'	
	Baker 1.78" ID "F" nipple	.96'	
	Sub 2 3/8"	6.05'	
	Seal section	3.56'	
	Locator		.75'
	Sliding Sleeve		2.62'
1	jt 2 3/8" tubing		31.23'
	Blast jt.		19.84'
	Blast jt.		19.34'
106	jt 2 3/8" tubing		3301.78'
	Sub 2 3/8"		2.20'
	Sub 2 3/8"		4.10'
<u>1</u>	jt 2 3/8" tubing		29.14'
<u>108</u>	jts	15.63'	3411.00'
	landed below KB		9.00'
	packer at		3420.00' KB

Packer has 8000 lbs set on it. End of production tube at 3436' KB. Top of "F" nipple at 3430' KB. Top of sliding sleeve 3417' KB. Blast joint from 3385' to 3346'. Nipple down BOP, nipple up tree. SI for night.

12-5-79 Rig up and fish plug out of "F" nipple. Rig down rig. SICP 670 psi, SICP 692 psi. Flowed tubing 3 hrs thru 3/4" choke, FPP 100 psi, rate 1385 MCFPD. Casing pressure bled to 270 psi. SI pending orders.


Harold W. Elledge, P.E.
Petroleum Engineer

HWE/jr

BEFORE EXAMINER STAMETS
OIL CONSERVATION DIVISION

EXHIBIT NO. 6

CASE NO. 6840

Submitted by Union Texas Petroleum

Date 3-26-80

EXHIBIT 7

UNION TEXAS PETROLEUM JOHNSTON FEDERAL 11-Y

PROPOSED ALLOCATION FORMULA

The following is Union Texas Petroleum's proposal for an allocation formula for the Fruitland and Pictured Cliffs Formations in the captioned well. Should this formula be unacceptable to the New Mexico Oil Conservation Division, Union Texas Petroleum will gladly work with the state to establish a suitable formula.

NOTE: Royalty owners and working interest owners are common and equal for both formations.

It is proposed that allocation of production to the Fruitland Formation be based on observed Fruitland flowing rates during completion and observed Fruitland decline rates for several wells in the area.

1. Last observed Fruitland flow rate on 11/26/79
- 173 MCFPD
2. Predicted Fruitland decline rate
- 40% First Year
- 12% Thereafter
3. Proposed allocation by year (MCF/month) with the stipulation that Fruitland allocated production does not exceed 20% of the total commingled production.

<u>YEAR</u>	<u>FRUITLAND ALLOCATION</u> <u>MCF/MONTH</u>
1980 (1st Production June)	4659
1981	3252
1982	2740
1983	2411
1984	2122
1985	1867
1986	1643
1987	1446
1988	1273
1989	1120
1990	986
1991	867
1992	763
1993	672
1994	591
1995	520
1995 +	0

BEFORE EXAMINER STAMETS	
OIL CONSERVATION DIVISION	
CASE NO. 6840	7
Submitted by Union Texas Petroleum	
Hearing Date 3-26-80	

Docket No. 8-80

Dockets Nos. 9-80 and 10-80 are tentatively set for April 9 and 23, 1980. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - WEDNESDAY - MARCH 26, 1980

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

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

- CASE 6838:** Application of Amax Chemical Corporation for the amendment of Order No. R-111-A, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of Order No. R-111-A to extend the boundaries of the Potash-Oil Area by the inclusion of certain lands in Sections 11, 12, and 13, Township 19 South, Range 30 East, and Sections 7 and 18, Township 19 South, Range 31 East.
- CASE 6839:** Application of Kimbell Oil Company for downhole commingling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Otero-Chacra and South Blanco-Pictured Cliffs production in the wellbore of its Salazar Well No. 4-26 to be located in Unit D of Section 26, Township 25 North, Range 6 West.
- CASE 6840:** Application of Union Texas Petroleum for downhole commingling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Fruitland and Pictured Cliffs production in the wellbore of its Johnston Federal Well No. 11Y located in Unit N of Section 7, Township 31 North, Range 9 West.
- CASE 6841:** Application of CIG Exploration, Inc. for two non-standard gas proration units, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of two non-standard gas proration units in Township 16 South, Range 28 East, the first being 219.6 acres comprising Lots 1 thru 8 of Section 1 and the second being 219.92 acres comprising Lots 1 thru 8 of Section 2, for the Wolfcamp, Pennsylvanian, and Mississippian formations, each unit to be dedicated to a well to be drilled at a standard location thereon.
- CASE 6842:** Application of ARCO Oil and Gas Company for an unorthodox gas well location, simultaneous dedication, and approval of infill drilling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its W. C. Roach Well No. 6, 660 feet from the North line and 1980 feet from the West line of Section 21, Township 20 South, Range 37 East, Eumont Gas Pool, to be simultaneously dedicated with its W. C. Roach Well No. 1 in Unit D to the W/2 of said Section 21. Also sought are findings that the proposed well is necessary to effectively and efficiently drain that portion of the proration unit which cannot be so drained by the existing unit well.
- CASE 6843:** Application of Yates Petroleum Corporation for two compulsory poolings, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Yesso formation underlying two 40-acre proration units, the first being the SE/4 SE/4 and the second being the SW/4 SE/4 of Section 6, Township 19 South, Range 25 East, Penasco Draw Field, each unit 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 wells and the allocation of the cost thereof as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the wells and a charge for risk involved in drilling said wells.
- CASE 6844:** Application of Arrowhead Oil Corporation for two exceptions to Order No. R-111-A and an unorthodox well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an exception to the casing-cementing rules of Order No. R-111-A to complete its Creek Federal Well No. 3 at an unorthodox location 250 feet from the North line and 2350 feet from the East line and its Creek Federal Well No. 4 to be drilled in Unit G, both in Section 23, Township 18 South, Range 30 East, by setting surface casing at a depth of approximately 600 feet and production casing at total depth. The production casing would have cement circulated back to the potash zone in the salt section.
- CASE 6845:** Application of Marathon Oil 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 well to be drilled 800 feet from the North line and 200 feet from the East line of Section 30, Township 21 South, Range 23 East, Indian Basin-Upper Pennsylvanian Gas Pool, all of Section 30 or that portion thereof which may be reasonably presumed productive of gas from said pool to be dedicated to the well.

CASE 6846: Application of Doyle Hartman for two compulsory poolings, two non-standard gas proration units, and two unorthodox well locations, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Eumont Gas Pool underlying two 80-acre non-standard gas proration units, the first being the S/2 NE/4 of Section 13, Township 21 South, Range 36 East, to be dedicated to a well to be drilled at an unorthodox location 1650 feet from the North line and 2310 feet from the East line of said Section 13, and the second being the N/2 NE/4 of said Section 13 to be dedicated to a well to be drilled at an unorthodox location 1330 feet from the North line and 2310 feet from the East line of said Section 13. Also to be considered will be the cost of drilling and completing said wells and the allocation of the cost thereof as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the wells and a charge for risk involved in drilling said wells.

CASE 6834: (Continued and Readvertised)

Application of Conoco Inc. for a dual completion and unorthodox well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of its SEMU Burger Well No. 107 at an unorthodox location 2615 feet from the South and East lines of Section 19, Township 20 South, Range 38 East, to produce oil from the Blinebry Oil and Gas and Drinkard Pools.

CASE 6837: (Continued from March 12, 1980, Examiner Hearing)

Application of Curtis Little for compulsory pooling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Dakota formation underlying the W/2 of Section 7, Township 25 North, Range 3 West, 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. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 6847: Application of Tenneco Oil Company for dual completions and downhole commingling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks authority to dually complete, in such a manner as to produce gas from the Dakota formation and commingled Chacra and Mesaverde production through parallel strings of tubing, ten proposed wells to be located as follows: in Township 29 North, Range 10 West: Unit C, Section 19; Unit N, Section 19; Unit A, Section 30; and Unit D, Section 30; in Township 29 North, Range 11 West: Unit G, Section 24; Unit O, Section 24; Unit A, Section 25; Unit D, Section 25; Unit M, Section 25; and Unit P, Section 25.

CASE 6812: (Continued from March 12, 1980, Examiner Hearing)

Application of Tenneco Oil Company for an NGPA determination, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks a new onshore reservoir determination for its State HL 11 Well No. 1 located in Unit N of Section 11, Township 19 South, Range 29 East.

CASE 6849: (This is the same matter as was previously designated Case No. 6813.)

Application of Petroleum Development Corporation to amend Order No. R-6196, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks to amend Order No. R-6196 which authorized re-entry of a well at an unorthodox location in the Lusk-Morrow Gas Pool to be dedicated to the N/2 of Section 13, Township 19 South, Range 31 East. Applicant now seeks approval for a new revised location 750 feet from the North line and 660 feet from the West line of said Section 13.

CASE 6848: Application of Petroleum Development Corporation for pool contraction and creation, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the contraction of the Querecho Plains-Bone Spring Pool to comprise the Upper Bone Spring formation only, from 8390 feet to 8680 feet on the log of its McKay West Federal Well No. 1 located in Unit F of Section 34, Township 18 South, Range 32 East, and the creation of the Querecho Plains-Lower Bone Spring Pool to comprise said formation from 8680 feet to the base of the Bone Spring underlying the NW/4 of said Section 34.

CASE 6826: (Continued from March 12, 1980, Examiner Hearing)

Application of Tahoe Oil and Cattle Company for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Penrose Skelly Pool underlying the SE/4 SE/4 of Section 25, Township 21 South, Range 36 East, to be dedicated to its Bromlee Well No. 1 located thereon. Also to be considered will be the cost of recompleting said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in recompleting said well.



BRUCE KING
GOVERNOR
LARRY KEHOE
SECRETARY

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE

1000 RIO BRAZOS ROAD
AZTEC, NEW MEXICO 87410
(505) 334-6178

February 29, 1980

Mr. Don Wells
Union Texas Petroleum Corporation
1860 Lincoln Street #1010
Denver, Colorado 80295

Case 6840

Re: Johnston Federal #11Y
N-7-31N-9W

Dear Mr. Wells:

Please file the returned forms C-104 on the revised forms which are attached.

Order R-5737 is still valid for a non-standard proration unit for the Pictured Cliffs formation for the above well. However, the Fruitland formation still will require an application.

It is not necessary to have a multiple completion order and downhole commingling order. Therefore, we have handled your application as a request for downhole commingling.

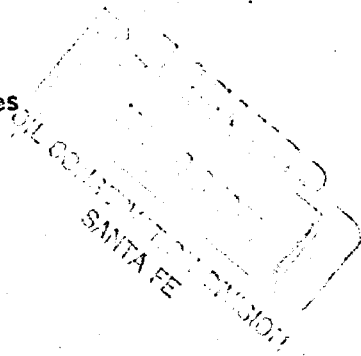
If you have any questions, please call.

Yours truly,

Frank T. Chavez
District Supervisor

FTC:dh

Enclosures





Union Texas Petroleum Division
Suite 1010 Lincoln Tower
1880 Lincoln Street
Denver, Colorado 80203

February 22, 1980

Case 6840

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

Re: Johnston Federal #11Y
SE SW Sec. 7-T31N-R9W
Blanco Pictured Cliffs and
Blanco Fruitland Fields
San Juan County, New Mexico

Gentlemen:

Attached please find the following documents on the captioned well:

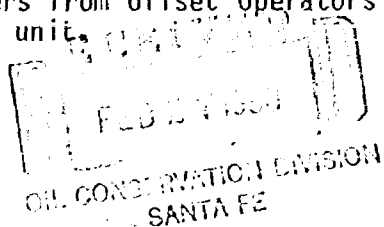
1. Well Completion Report (Form 9-330)
2. Affidavit of Deviation Surveys
3. Packer Leakage Test
4. Request for Allowable (Form C104)
5. Application for Approval of a Non-Standard Proration Unit
6. Application for Multiple Completion (Form C-107)
7. Application for Approval to Down Hole Commingle Production

In support of our various applications the following information is offered:

APPLICATION FOR NON STANDARD PRORATION UNIT

Due to variations of legal subdivisions of public land surveys, the quarter sections along the western boundary of Township 31 North, Range 9 West are irregular in size. Because of this irregularity we are unable to form a standard 160 acre proration unit, and are asking the Commission to approve the non-standard proration unit consisting of the west half of Section 7 containing 209.5 acres.

The subject well was drilled as a replacement well for Johnston Federal #11 which has been plugged and abandoned. By virtue of Case No. 6227 (May 17, 1978) and Order No. R-5737 (June 12, 1978), which approved the same non-standard proration unit for Johnston Federal #11; we request administrative approval of the non-standard proration unit for our replacement well. Attachment I includes waivers from offset operators and a survey plat of the well and proposed proration unit.



New Mexico Oil Conservation
Commission
Johnston Federal #11Y
February 22, 1980
Page - 2 -

APPLICATION FOR MULTIPLE COMPLETION

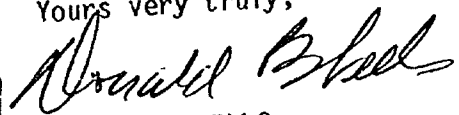
The Johnston Federal #11Y was drilled for Pictured Cliffs production. While drilling the well gas kicks were also observed in the Fruitland section, and both zones have been perforated. Attachment II includes Form C-107, a well bore diagram, land plats, waivers from offset operators, and a log of the well.

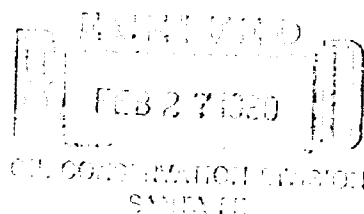
APPLICATION TO DOWN HOLE COMMINGLE

Completion operations on the Johnston Federal #11Y were in progress from October 12, 1979 to December 14, 1979. Over \$110,000 has been spent on the completion attempt, for a total well cost to date of approximately \$210,000. Among some of our problems, we had to cement squeeze the upper Fruitland perforations to repair a channel that extended to the surface. After squeezing and additional stimulation, productivity is not as good as before, indicating unrepaired damage to the zone has occurred. While attempting to stimulate the Fruitland after the squeeze job, communication outside the pipe to the Pictured Cliffs was apparently initiated. The enclosed Packer Leakage Test verifies that the Fruitland and Pictured Cliffs zones are in communication. We have pulled our production tubing on two occasions but have found no leaks, thus indicating that the communication between zones is behind pipe. It is our contention that further cement squeezings would present an undue hardship not only because of the expense involved, but also because it undoubtedly would further damage the productivity of both zones and would result in ultimate loss of reserves. We therefore request approval to down hole commingle the Fruitland and Pictured Cliffs zones in this well. Waivers from the offset operators and a well bore diagram were included in Attachment II. Attachment III is a resubmittal of the Sundry Notice of Completion on the well which somewhat details our completion operations on the well.

Should any of our applications not qualify for administrative approval, please place the matter on the docket for hearing.

Yours very truly,


DONALD B. WELLS
District Production Manager



DBW/jcn
Attach.

cc: New Mexico Oil Conservation Commission
1000 Rio Brazos Road
Aztec, New Mexico 87410

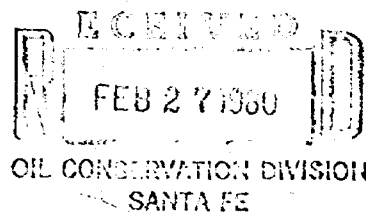


Union Texas Petroleum Division
Suite 1010 Lincoln Tower
1880 Lincoln Street
Denver, Colorado 80296

Case 6840

February 22, 1980

U. S. Geological Survey
P. O. Box 959
Farmington, New Mexico 87401



Re: Johnston Federal #11Y
SE SW Sec.7-T31N-R9W
Blanco Pictured Cliffs and
Blanco Fruitland Fields
San Juan County, N. Mexico

Gentlemen:

Enclosed in duplicate for your further handling are two Form 9-330 reports on the subject well. One of these reports covers the completion of the well in the Pictured Cliffs Formation; the other report in the Fruitland Formation.

Yours very truly,

DONALD B. WELLS
District Production Manager

DBW/jcn

cc: New Mexico Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501

New Mexico Oil Conservation Commission
1000 Rio Brazos Road
Aztec, New Mexico 87410

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other in-
structions on
reverse side)Form approved.
Budget Bureau No. 42-R366.3.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> Other _____		5. LEASE DESIGNATION AND SERIAL NO. SF 078439	
2. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESER. <input type="checkbox"/> Other _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. NAME OF OPERATOR UNION TEXAS PETROLEUM CORPORATION		7. UNIT AGREEMENT NAME	
4. ADDRESS OF OPERATOR 1860 Lincoln Street, Suite 1010, Denver, Colorado 80295		8. FARM OR LEASE NAME JOHNSTON FEDERAL	
9. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface SE SW (990 FSL - 790 FWL) Section 7-T31N-R9W At top prod. interval reported below At total depth SAME		9. WELL NO. 11Y	
10. FIELD AND POOL, OR WILDCAT Blanco Pictured Cliffs		11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec. 7-T31N-R9W	
12. PERMIT NO. 6/22/79		13. COUNTY OR PARISH San Juan	
14. DATE ISSUED 6/22/79		15. STATE N. Mexico	
16. DATE STUDDER 7/23/79	17. DATE T.D. REACHED 7/27/79	18. DATE COMPL. (Ready to prod.) 12/4/79	19. ELEVATIONS (DF, RES, ST, OR, ETC.)* 6622 KB
20. TOTAL DEPTH, MD & TVD 3650	21. PLUG BACK T.D., MD & TVD 3644	22. IF MULTIPLE COMPL., HOW MANY* 2	23. INTERVALS DRILLED BY ROTARY TOOLS X CABLE TOOLS
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* Pictured Cliffs 3433 - 3491			25. WAS DIRECTIONAL SURVEY MADE No
26. TYPE ELECTRIC AND OTHER LOGS RUN CNL Density and DIL to 2805': CNL cased hole			27. WAS WELL CORRED No
28. CASING RECORD (Report all strings set in well)			
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE
9-5/8	40#	334	12-1/4
5-1/2	14#	3654	7-7/8
CEMENTING RECORD		AMOUNT PULLED	
200 SX.		---	
1200 SX.		---	
29. LINER RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*
			SCREEN (MD)
30. TUBING RECORD		PACKER SET (MD)	
SIZE	DEPTH SET (MD)	3420	
2-3/8	3420		
31. PERFORATION RECORD (Interval, size and number) 3433-3436; 3440-3442; 3447-3453; 3462-3470; 3476-3480; 3485-3491 with 35 jet shots			
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED	
3433-3491		Acidized w/1500 gal. 7-1/2% Foam Frac with 96000# sand	
33. PRODUCTION			
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	
12/19/79		Flowing	
HOURS TESTED 3		WELL STATUS (Producing or shut-in) SI	
CHOKE SIZE 3/4		OIL—BBL. 196	
FLOWING PRESS. 118		GAS—MCF. 1572	
CASING PRESSURE		WATER—BBL. ---	
CALCULATED 24-HOUR RATE		OIL GRAVITY-API (CORR.) ---	
DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Vented		TEST WITNESSED BY Joe Elledge	
34. LIST OF ATTACHMENTS			
35. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records			
SIGNED C. W. CLAXTON		TITLE DIST. PETROLEUM ENGINEER	
DATE JAN. 8, 1980			

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other in-
structions on
reverse side)Form approved.
Budget Bureau No. 42-2355.6.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> Other _____		5. LEASE DESIGNATION AND SERIAL NO. SF 078439	
2. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESER. <input type="checkbox"/> Other _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. NAME OF OPERATOR UNION TEXAS PETROLEUM CORPORATION		7. UNIT AGREEMENT NAME	
4. ADDRESS OF OPERATOR 1860 Lincoln St., #1010, Denver, Colorado 80295		8. FARM OR LEASE NAME JOHNSTON FEDERAL	
9. LOCATION OF WELL (Report location clearly and in accordance with any State requirements): At surface SE SW (990 FSL - 790 FWL) Sec.7-T31N-R9W At top prod. interval reported below At total depth SAME		9. WELL NO. 11Y	
10. PERMIT NO. _____ DATE ISSUED 6/22/79		10. FIELD AND POOL, OR WILDCAT Blanco Fruitland	
11. DATE SPUDDED 7/23/79		11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec.7-T31N-R9W	
12. DATE T.D. REACHED 7/27/79		12. COUNTY OR PARISH San Juan	
13. DATE COMPL. (Ready to prod.) 12/4/79		13. STATE N.M.	
14. ELEVATIONS (DF, RES, RT, CR, ETC.): 6622 KB		14. ELEV. CASINGHEAD	
15. TOTAL DEPTH, MD & TVD 3650		15. PLUG BACK T.D., MD & TVD 3644	
16. IF MULTIPLE COMPL., HOW MANY? 2		16. INTERVALS DRILLED BY ROTARY TOOLS X CABLE TOOLS	
17. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD): Fruitland 3275 - 3412		17. WAS DIRECTIONAL SURVEY MADE No	
18. TYPE ELECTRIC AND OTHER LOGS RUN CNL Density & DIL to 2805: CNL cased hole		18. WAS WELL CORED No	
19. CASING RECORD (Report all strings set in well)			
20. CEMENTING RECORD			
21. AMOUNT PULLED			
22. LINER RECORD			
23. TUBING RECORD			
24. PERFORATION RECORD (Interval, size and number)			
25. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
26. PRODUCTION			
27. DATE FIRST PRODUCTION			
28. PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)			
29. WELL STATUS (Producing or shut-in)			
30. DATE OF TEST			
31. HOURS TESTED			
32. CHOKER SIZE			
33. PROD'N. FOR TEST PERIOD			
34. OIL—BBL.			
35. GAS—MCF.			
36. WATER—BBL.			
37. GAS-OIL RATIO			
38. FLOW, TUBING PRESS.			
39. CASINO PRESSURE			
40. CALCULATED 24-HOUR RATE			
41. OIL—BBL.			
42. GAS—MCF.			
43. WATER—BBL.			
44. OIL GRAVITY-API (CORR.)			
45. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)			
46. TESTY WITNESSED BY			
47. LIST OF ATTACHMENTS			
48. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records			
49. SIGNED <u>C. W. Claxton</u> TITLE <u>DIST. PETRO. ENGINEER</u> DATE <u>JAN. 8, 1980</u>			

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

(OVER)

Form 5-336
(Rev. 6-68)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other in-
structions on
reverse side)

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> Other _____		5. LEASE DESIGNATION AND SERIAL NO. SF 078439	
2. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIRT. RESEAL <input type="checkbox"/> Other _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. NAME OF OPERATOR UNION TEXAS PETROLEUM CORPORATION		7. UNIT AGREEMENT NAME	
4. ADDRESS OF OPERATOR 1860 Lincoln Street, Suite 1010, Denver, Colorado 80295		8. FARM OR LEASE NAME JOHNSTON FEDERAL	
9. LOCATION OF WELL (Report location clearly and in accordance with any State requirements): At surface SE SW (990 FSL - 790 FWL) Section 7-T31N-R9W At top prod. interval reported below At total depth SAME		9. WELL NO. 11Y	
10. PERMIT NO. 6/22/79		10. FIELD AND POOL, OR WILDCAT Blanco Pictured Cliffs	
11. DATE DRILLED 7/23/79		11. SEC. T., R., M., OR BLOCK AND SURVEY OR AREA Sec. 7-T31N-R9W	
12. DATE T.D. REACHED 7/27/79		12. COUNTY OR PARISH San Juan	
13. DATE COMPL. (Ready to prod.) 12/4/79		13. STATE N. Mexico	
14. ELEVATIONS (DF, RER, RT, OR, ETC.): 6622 KB		14. ELEV. CASINGHEAD	
15. TOTAL DEPTH, MD & TVD 3650		15. PLUG BACK T.D., MD & TVD 3644	
16. IF MULTIPLE COMPL., HOW MANY? 2		16. INTERVALS DRILLED BY X	
17. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD): Pictured Cliffs 3433 - 3491		17. WAS DIRECTIONAL SURVEY MADE No	
18. TYPE ELECTRIC AND OTHER LOGS RUN CNL Density and DIL to 2805': CNL cased hole		18. WAS WELL CORRED No	
19. CASING RECORD (Report all strings set in well)			
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE
9-5/8	40#	334	12-1/4
5-1/2	14#	3654	7-7/8
20. LINER RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*
21. PERFORATION RECORD (Interval, size and number) 3433-3436; 3440-3442; 3447-3453; 3462-3470; 3476-3480; 3485-3491 with 35 jet shots			
22. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED	
3433-3491		Acidized w/1500 gal. 7-1/2% Foam Frac with 96000# sand	
23. PRODUCTION			
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing	
DATE OF TEST 12/19/79		WELL STATUS (Producing or shut-in) SI	
HOURS TESTED 3	CHOKE SIZE 3/4	PROD'N. FOR TEST PERIOD OIL—BBL. 1572	GAS—MCF. 196
WATER—BBL. --	GAS-OIL RATIO --	OIL GRAVITY-API (CORR.) --	
FLOW. TUBING PRESS. 118	CASING PRESSURE --	CALCULATED 24-HOUR RATE 1572	
24. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Vented		TEST WITNESSED BY Joe Elledge	
25. LIST OF ATTACHMENTS			
26. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records			
SIGNED C. W. CLAXTON		TITLE DIST. PETROLEUM ENGINEER	
DATE JAN. 8, 1980			

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

NEW MEXICO OIL CONSERVATION COMMISSION
NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Revised 11-1-58
Case 6890

Operator Union Texas Petroleum Lease Johnston Federal Well No. 11-Y
Location of Well: Unit N Sec. 7 Twp. 31N Rge. 9W County San Juan

	Name of Reservoir or Pool	Type of Prod. (Oil or Gas)	Method of Prod. (Flow or Art. Lift)	Prod. Medium (Tbg. or Csg.)
Upper Completion	Fruitland	Gas	Flow	Casing
Lower Completion	Blanco Pictured Cliff	Gas	Flow	Tubing

PRE-FLOW SHUT-IN PRESSURE DATA

Upper Compl	Hour, date	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)
	Shut-in 12-5-79	7 days	718	Yes
Lower Compl	Hour, date	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)
	Shut-in 12-5-79	7 days	718	Yes

FLOW TEST NO. 1

Commenced at (hour, date)*		12-12-79		Zone producing (Upper or Lower):	
Time (hour, date)	Lapsed time since*	Upper Compl. Pressure	Lower Compl. Pressure	Prod. Zone Temp.	Remarks
12-12-79 1:30 p.m.	0-days 15-min	718	718		
		81	403		
	30-min	62	345		
	45-min	51	318		
	1-hour	47	289		
	2-hours	42	265		
	3-hours	38	250		

Production rate during test
Oil: BOPD based on Bbls. in Hrs. Grav. GOR
Gas: 604 MCFPD; Tested thru (Orifice or Meter): 3/4 positive choke

MID-TEST SHUT-IN PRESSURE DATA

Upper Compl	Hour, date	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)
	Shut-in 12-12-79	7 days	697	Yes
Lower Compl	Hour, date	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)
	Shut-in 12-5-79	14 days	697	Yes

FLOW TEST NO. 2

Commenced at (hour, date)**		12-19-79		Zone producing (Upper or Lower):	
Time (hour, date)	Lapsed time since **	Upper Compl. Pressure	Lower Compl. Pressure	Prod. Zone Temp.	Remarks
12-19-79 4: p.m.	0 days 15 min	697	697		
		460	236		
	30 min	409	162		
	45 min	387	150		
	1-hour	359	148		
	2-hours	341	128		
	3-hours	323	118		

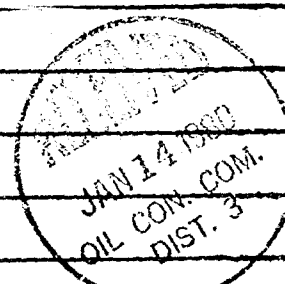
Production rate during test
Oil: BOPD based on Bbls. in Hrs. Grav. GOR
Gas: 1572 MCFPD; Tested thru (Orifice or Meter): 3/4 positive choke

REMARKS:

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

Approved: Not Approved 19
New Mexico Oil Conservation Commission
By Repair Requested
Title

Operator Union Texas Petroleum
By Ronald Miller
Title District Production Manager
Date January 8, 1980



NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator Union Texas Petroleum Lease Johnston Federal Well No. 11-V
 Location of Well: Unit N Sec. 7 Twp. 31N Rge. 9W County San Juan
 Name of Reservoir or Pool Fruitland Type of Prod. Gas Method of Prod. Flow Prod. Medium Casing
 (Oil or Gas) (Flow or Art. Lift) (Thg. or Csg.)

Upper Completion	Fruitland	Gas	Flow	Casing
Lower Completion	Blanco Pictured Cliff	Gas	Flow	Tubing

PRE-FLOW SHUT-IN PRESSURE DATA

Upper Compl	Hour, date Shut-in 12-5-79	Length of time shut-in 7 days	SI press. psig 718	Stabilized? (Yes or No) Yes
Lower Compl	Hour, date Shut-in 12-5-79	Length of time shut-in 7 days	SI press. psig 718	Stabilized? (Yes or No) Yes

FLOW TEST NO. 1

Commenced at (hour, date)* 12-12-79		Zone producing (Upper or Lower):			
Time (hour, date)	Lapsed time since*	Pressure		Prod. Zone Temp.	Remarks
		Upper Compl.	Lower Compl.		
12-12-79 1:30 p.m.	0-days 15-min	718	718		
	30-min	81	403		
	45-min	62	345		
	1-hour	51	318		
	2-hours	47	289		
	3-hours	42	265		
		38	250		

Production rate during test

Oil: 604 BOPD based on MCFPD Bbls. in 3/4 Hrs. Grav. GOR
 Gas: 604 MCFPD; Tested thru (Orifice or Meter): 3/4 positive choke

MID-TEST SHUT-IN PRESSURE DATA

Upper Compl	Hour, date Shut-in 12-12-79	Length of time shut-in 7 days	SI press. psig 697	Stabilized? (Yes or No) Yes
Lower Compl	Hour, date Shut-in 12-5-79	Length of time shut-in 14 days	SI press. psig 697	Stabilized? (Yes or No) Yes

FLOW TEST NO. 2

Commenced at (hour, date)** 12-19-79 4: p.m.		Zone producing (Upper or Lower):			
Time (hour, date)	Lapsed time since **	Pressure		Prod. Zone Temp.	Remarks
		Upper Compl.	Lower Compl.		
12-19-79 4: p.m.	0 days 15 min	697	697		
	30 min	460	236		
	45 min	409	162		
	1-hour	387	150		
	2-hours	359	148		
	3-hours	341	128		
		323	118		

Production rate during test

Oil: 1572 BOPD based on MCFPD Bbls. in 3/4 Hrs. Grav. GOR
 Gas: 1572 MCFPD; Tested thru (Orifice or Meter): 3/4 positive choke

REMARKS:

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

Approved: Not Approved 19
 New Mexico Oil Conservation Commission
 By: Repair Requested
 Title _____

Operator Union Texas Petroleum
 By: Ronald Miller
 Title District Production Manager
 Date January 8, 1980

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator Union Texas Petroleum Lease Johnston Federal Well No. 11-Y
 Location Unit N Sec. 7 Twp. 31N Rge. 9W County San Juan
 Name of Reservoir or Pool Fruitland Type of Prod. Gas Method of Prod. Flow Prod. Medium Casing
 (Oil or Gas) (Flow or Art. Lift) (Tbg. or Csg.)

Upper Completion	Fruitland	Gas	Flow	Casing
Lower Completion	Blanco Pictured Cliff	Gas	Flow	Tubing

PNE-FLOW SHUT-IN PRESSURE DATA

Upper Completion	Hour, date Shut-in 12-5-79	Length of time shut-in 7 days	SI press. psig 718	Stabilized? (Yes or No) Yes
Lower Completion	Hour, date Shut-in 12-5-79	Length of time shut-in 7 days	SI press. psig 718	Stabilized? (Yes or No) Yes

FLOW TEST NO. 1

Commenced at (hour, date)* 12-12-79		Zone producing (Upper or Lower):			
Time (hour, date)	Lapsed time since*	Pressure		Prod. Zone Temp.	Remarks
12-12-79 1:30 p.m.	0-days 15-min	Upper Compl. 718	Lower Compl. 718		
	30-min	62	345		
	45-min	51	318		
	1-hour	47	289		
	2-hours	42	265		
	3-hours	38	250		

Production rate during test

Oil: 604 BOPD based on MCFPD Bbls. in 3/4 Hrs. positive Grav. choke
 Gas: 604 MCFPD; Tested thru (Orifice or Meter): 3/4 positive choke

MID-TEST SHUT-IN PRESSURE DATA

Upper Completion	Hour, date Shut-in 12-12-79	Length of time shut-in 7 days	SI press. psig 697	Stabilized? (Yes or No) Yes
Lower Completion	Hour, date Shut-in 12-5-79	Length of time shut-in 14 days	SI press. psig 697	Stabilized? (Yes or No) Yes

FLOW TEST NO. 2

Commenced at (hour, date)**		Zone producing (Upper or Lower):			
Time (hour, date)	Lapsed time since **	Pressure		Prod. Zone Temp.	Remarks
12-19-79 4: p.m.	0 days 15 min	Upper Compl. 697	Lower Compl. 697		
	30 min	409	162		
	45 min	387	150		
	1-hour	359	148		
	2-hours	341	128		
	3-hours	323	118		

Production rate during test

Oil: 1572 BOPD based on MCFPD Bbls. in 3/4 Hrs. positive Grav. choke
 Gas: 1572 MCFPD; Tested thru (Orifice or Meter): 3/4 positive choke

REMARKS:

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

Approved: Not Approved 19
 New Mexico Oil Conservation Commission
 By Repair Requested
 Title _____

Operator Union Texas Petroleum
 By Ronald Miller
 Title District Production Manager
 Date January 8, 1980

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LAND OFFICE		
TRANSPORTER	OIL GAS	
OPERATOR		
PRORATION OFFICE		

NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104
Supersedes Old C-104 and C-110
Effective 1-1-65

Case 6840

I. OPERATOR

UNION TEXAS PETROLEUM CORPORATION

Address
1860 Lincoln Street, #1010, Denver, Colorado 80295

Reason(s) for filing (Check proper box)

New Well <input checked="" type="checkbox"/>	Change in Transporter of:	Other (Please explain)
Recompletion <input type="checkbox"/>	Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/>	
Change in Ownership <input type="checkbox"/>	Casinghead Gas <input type="checkbox"/> Condensate <input type="checkbox"/>	

If change of ownership give name and address of previous owner:

II. DESCRIPTION OF WELL AND LEASE

Lease Name JOHNSTON FEDERAL	Well No. 11-Y	Pool Name, Including Formation Blanco Pictured Cliffs	Kind of Lease State, Federal or Fee Federal
Location Unit Letter N ; 990 Feet From The S Line and 790 Feet From The W			
Line of Section 7 , Township 31N Range 9W , NMPM, San Juan County			

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Plateau, Inc.	1921 Bloomfield Bldg., Farmington, N. Mexico
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
El Paso Natural Gas Co.	P. O. Box 990, Farmington, N. Mexico 87401
If well produces oil or liquids, give location of tanks.	Is gas actually connected? When
Unit N Sec. 7 Twp. 31N Rge. 9W	No

If this production is commingled with that from any other lease or pool, give commingling order number:

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> New Well <input checked="" type="checkbox"/> Workover <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Same Res'v. <input type="checkbox"/> Diff. Res'v. <input type="checkbox"/>
Date Spudded 7/23/79	Date Compl. Ready to Prod. 12/4/79
Pool Blanco Pictured Cliffs	Name of Producing Formation Pictured Cliffs
Perforations 3433-36; 3440-42; 3447-3453; 3462-3470; 3476-80; 3485-91 w/35 shots	Top Oil/Gas Pay 3433'
TUBING, CASING, AND CEMENTING RECORD	
HOLE SIZE 12-1/4"	CASING & TUBING SIZE 9-5/8"
7-7/8"	5-1/2"
--	2-3/8"
DEPTH SET 334'	SACKS CEMENT 200 sx.
3654'	1200 sx.
3420'	--

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil-Bbls.	Water-Bbls.	Gas-MCF
	CLCC		
	SANTA FE		

GAS WELL

Actual Prod. Test-MCF/D 1572	Length of Test 3	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pitot, back pr.) Positive Choke	Tubing Pressure 118	Casing Pressure	Choke Size 3/4"

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

DONALD B. WELES
District Production Manager
(Title)

February 21, 1980

OIL CONSERVATION COMMISSION

APPROVED _____, 19 _____

BY _____

TITLE _____

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out Sections I, II, III, and VI only for changes of owner, etc.

AFFIDAVIT OF DEVIATION SURVEYS

SUBJECT WELL: JOHNSTON FEDERAL #11-Y
SE SW SECTION 7-T31N-R9W
BLANCO PICTURED CLIFFS FIELD
SAN JUAN COUNTY, NEW MEXICO

<u>DEPTH</u>	<u>DEVIATION - DEGREES</u>	<u>HORIZONTAL DISPLACEMENT (FT.)</u>	<u>CUMULATIVE</u>
350	0.50	3.1	3.1
710	0.50	3.1	6.2
1202	1.00	8.6	14.8
1734	1.00	9.3	24.1
2268	.75	7.0	31.1
2805	.75	7.0	38.1
3313	.75	4.3	42.4

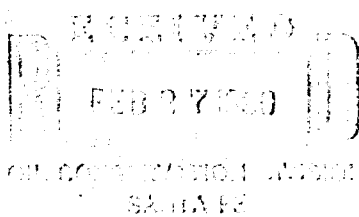
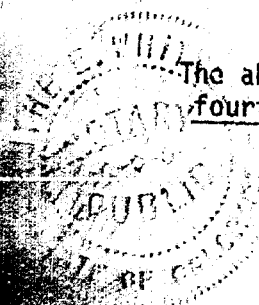
I hereby swear or affirm that the information given herewith is a complete and correct record of all deviation surveys on this well so far as can be determined from available records.

Signed

[Signature]

Title: District Production Manager

The above Affidavit of Deviation Surveys was subscribed and sworn to before me this fourteenth day of January, 19 80.



Ruth E. Whitell
NOTARY PUBLIC

My commission expires April 22, 19 81.

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NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104
 Supersedes Old C-104 and C-110
 Effective 1-1-65

I. OPERATOR

UNION TEXAS PETROLEUM CORPORATION

Address
1860 Lincoln Street, #1010, Denver, Colorado 80295

Reason(s) for filing (Check proper box)

New Well <input checked="" type="checkbox"/>	Change in Transporter of:	Other (Please explain)
Recompletion <input type="checkbox"/>	Oil <input type="checkbox"/>	Dry Gas <input type="checkbox"/>
Change in Ownership <input type="checkbox"/>	Casinghead Gas <input type="checkbox"/>	Condensate <input type="checkbox"/>

If change of ownership give name and address of previous owner _____

II. DESCRIPTION OF WELL AND LEASE

Lease Name JOHNSTON FEDERAL	Well No. 11-Y	Pool Name, Including Formation Blanco Pictured Cliffs	Kind of Lease State, Federal or Fee Federal
Location Unit Letter N ; 990 Feet From The S Line and 790 Feet From The W Line of Section 7 , Township 31N Range 9W , NMPM, San Juan County			

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Plateau, Inc.	1921 Bloomfield Bldg., Farmington, N. Mexico
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
El Paso Natural Gas Co.	P. O. Box 990, Farmington, N. Mexico 87401
If well produces oil or liquids, give location of tanks.	Is gas actually connected? When
Unit N Sec. 7 Twp. 31N Rge. 9W	No

If this production is commingled with that from any other lease or pool, give commingling order number: _____

IV. COMPLETION DATA

Designate Type	Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v.	Diff. Res'v.
			X	X					
Date Spudded 7/23/79	Date Compl. Ready to Prod. 12/4/79	Total Depth 3650' KB		P.B.T.D. 3644' KB					
Pool Blanco Pictured Cliffs	Name of Producing Formation Pictured Cliffs	Top Oil/Gas Pay 3433'		Tubing Depth 3420' KB					
Perforations 3433-36; 3440-42; 3447-3453; 3462-3470; 3476-80; 3485-91 w/ 35' jet shots		Depth Casing Shoe 3654' KB							
TUBING, CASING, AND CEMENTING RECORD									
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET		SACKS CEMENT				
12-1/4"	9-5/8"		334'		200 sx.				
7-7/8"	5-1/2"		3654'		1200 sx.				
---	2-3/8"		3420'		---				

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

(Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

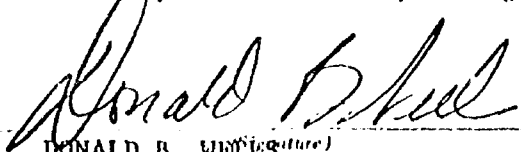
Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil-Bbls.	Water-Bbls.	Gas-MCF

GAS WELL

Actual Prod. Test-MCF/D 1572	Length of Test 3	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pitot, back pr.) Positive Choke	Tubing Pressure 118	Casing Pressure	Choke Size 3/4"

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.


DONALD B. WELLS
 District Production Manager

OIL CONSERVATION COMMISSION

APPROVED _____, 19 _____

BY _____

TITLE _____

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

AFFIDAVIT OF DEVIATION SURVEYS

SUBJECT WELL: JOHNSTON FEDERAL #11-Y
SE SW SECTION 7-T31N-R9W
BLANCO PICTURED CLIFFS FIELD
SAN JUAN COUNTY, NEW MEXICO

<u>DEPTH</u>	<u>DEVIATION - DEGREES</u>	<u>HORIZONTAL DISPLACEMENT (FT.)</u>	<u>CUMULATIVE</u>
350	0.50	3.1	3.1
710	0.50	3.1	6.2
1202	1.00	8.6	14.8
1734	1.00	9.3	24.1
2268	.75	7.0	31.1
2805	.75	7.0	38.1
3313	.75	4.3	42.4

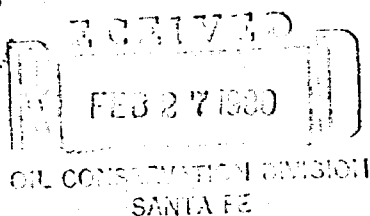
I hereby swear or affirm that the information given herewith is a complete and correct record of all deviation surveys on this well so far as can be determined from available records.

Signed



Title: District Production Manager

The above Affidavit of Deviation Surveys was subscribed and sworn to before me this fourteenth day of January, 19 80.




NOTARY PUBLIC

My commission expires April 22, 19 81.

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NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104
 Supersedes Old C-104 and C-110
 Effective 1-1-65

I. OPERATOR

UNION TEXAS PETROLEUM CORPORATION

Address
1860 Lincoln Street, #1010, Denver, Colorado 80295

Reason(s) for filing (check proper box) Other (Please explain)

New Well ☒ Change in Transporter of:
 Recompletion ☐ Oil ☐ Dry Gas ☐
 Change in Ownership ☐ Casinghead Gas ☐ Condensate ☐

If change of ownership give name and address of previous owner

II. DESCRIPTION OF WELL AND LEASE

Lease Name JOHNSTON FEDERAL	Well No. 11-Y	Pool Name, including Formation Blanco Pictured Cliffs	Kind of Lease State, Federal or Fee Federal
Location Unit Letter N : 990 Feet From The S Line and 790 Feet From The W Line of Section 7 , Township 31N Range 9W , NMPM, San Juan County			

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/> Plateau, Inc.	Address (Give address to which approved copy of this form is to be sent) 1921 Bloomfield Bldg., Farmington, N. Mexico
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/> El Paso Natural Gas Co.	Address (Give address to which approved copy of this form is to be sent) P. O. Box 990, Farmington, N. Mexico 87401
If well produces oil or liquids, give location of tanks. Unit N Sec. 7 Twp. 31N Rge. 9W	Is gas actually connected? No When

If this production is commingled with that from any other lease or pool, give commingling order number:

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v.	Diff. Res'v.
		X	X					
Date Spudded 7/23/79	Date Compl. Ready to Prod. 12/4/79	Total Depth 3650' KB		P.B.T.D. 3644' KB				
Pool Blanco Pictured Cliffs	Name of Producing Formation Pictured Cliffs	Top Oil/Gas Pay 3433'		Tubing Depth 3420' KB				
Perforations 3433-36; 3440-42; 3447-3453; 3462-3470; 3476-80; 3485-91 w/ jet shots				Depth Casing Shoe 3654' KB				
TUBING, CASING, AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET		SACKS CEMENT			
12-1/4"	9-5/8"		334'		200 sx.			
7-7/8"	5-1/2"		3654'		1200 sx.			
---	2-3/8"		3420'		---			

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

(Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

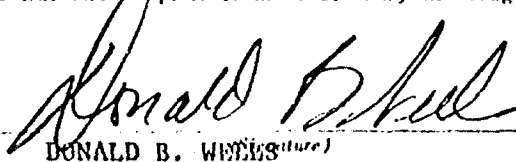
Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test SANTA FE	Oil - Bbls.	Water - Bbls.	Gas - MCF

GAS WELL

Actual Prod. Test-MCF/D 1572	Length of Test 3	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pitot, back pr.) Positive Choke	Tubing Pressure 118	Casing Pressure	Choke Size 3/4"

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.


DONALD B. WIGGINS
 District Production Manager
 (Title)

February 21, 1980

OIL CONSERVATION COMMISSION

APPROVED _____, 19 _____

BY _____

TITLE _____

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out Sections I, II, III, and VI only for changes of owner.

AFFIDAVIT OF DEVIATION SURVEYS

SUBJECT WELL: JOHNSTON FEDERAL #11-Y
SE SW SECTION 7-T31N-R9W
BLANCO PICTURED CLIFFS FIELD
SAN JUAN COUNTY, NEW MEXICO

DEPTH	DEVIATION - DEGREES	HORIZONTAL DISPLACEMENT (FT.)	CUMULATIVE
350	0.50		
710	0.50	3.1	3.1
1202	1.00	3.1	6.2
1734	1.00	8.6	14.8
2268	.75	9.3	24.1
2805	.75	7.0	31.1
3313	.75	7.0	38.1
		4.3	42.4

I hereby swear or affirm that the information given herewith is a complete and correct record of all deviation surveys on this well so far as can be determined from available records.

Signed *OBHuel*
Title: District Production Manager

The above Affidavit of Deviation Surveys was subscribed and sworn to before me this fourteenth day of January, 19 80.

My commission expires April 22, 19 81.

Ruth E. Whitell
NOTARY PUBLIC

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NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104
 Supersedes Old C-104 and C-110
 Effective 1-1-65

I. OPERATOR

UNION TEXAS PETROLEUM CORPORATION

Address
1860 Lincoln Street, #1010, Denver, Colorado 80295

Reason(s) for filing (Check proper box) Other (Please explain)

New Well ☒ Change in Transporter of:
 Recompletion ☐ Oil ☐ Dry Gas ☐
 Change in Ownership ☐ Casinghead Gas ☐ Condensate ☐

If change of ownership give name and address of previous owner _____

II. DESCRIPTION OF WELL AND LEASE

Lease Name JOHNSTON FEDERAL	Well No. 11-Y	Pool Name, including Formation Blanco Pictured Cliffs	Kind of Lease State, Federal or Fee Federal
Location			
Unit Letter N	990 Feet From The S Line and 790 Feet From The W		
Line of Section 7	Township 31N	Range 9W	NMPM, San Juan County

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/> Plateau, Inc.	Address (Give address to which approved copy of this form is to be sent) 1921 Bloomfield Bldg., Farmington, N. Mexico
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/> El Paso Natural Gas Co.	Address (Give address to which approved copy of this form is to be sent) P. O. Box 990, Farmington, N. Mexico 87401
If well produces oil or liquids, give location of tanks.	Unit Sec. Twp. Rge. Is gas actually connected? When
	N 7 31N 9W No

If this production is commingled with that from any other lease or pool, give commingling order number: _____

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v.	Diff. Res'v.
		X	X					
Date Spudded 7/23/79	Date Compl. Ready to Prod. 12/4/79	Total Depth 3650' KB		P.B.T.D. 3644' KB				
Pool Blanco Pictured Cliffs	Name of Producing Formation Pictured Cliffs	Top Oil/Gas Pay 3433'		Tubing Depth 3420' KB				
Perforations 3433-36; 3440-42; 3447-3453; 3462-3470; 3476-80; 3485-91 w/35 jet shots				Depth Casing Shoe 3654' KB				
TUBING, CASING, AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE	DEPTH SET		SACKS CEMENT				
12-1/4"	9-5/8"	334'		200 sx.				
7-7/8"	5-1/2"	3654'		1200 sx.				
	2-3/8"	3420'		--				

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

(Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

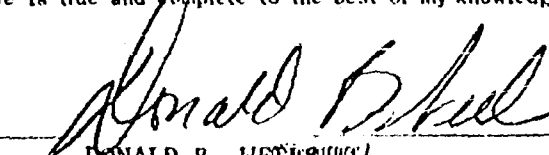
Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil-Bbls.	Water-Bbls.	Gas-MCF

GAS WELL

Actual Prod. Test-MCF/D 1572	Length of Test 3	Bbls. Condensate/M-MCF	Gravity of Condensate
Testing Method (pilot, back pr.) Positive Choke	Tubing Pressure 118	Casing Pressure	Choke Size 3/4"

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.


DONALD B. WELLS (Signature)
 District Production Manager
 (Title)
 February 21, 1980
 (Date)

OIL CONSERVATION COMMISSION

APPROVED _____, 19 _____

BY _____

TITLE _____

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out Sections I, II, III, and VI only for changes of owner, well name or number, or transporter, or other such change of condition. Separate Forms C-104 must be filed for each pool in multiple

AFFIDAVIT OF DEVIATION SURVEYS

SUBJECT WELL: JOHNSTON FEDERAL #11-Y
SE SW SECTION 7-T31N-R9W
BLANCO PICTURED CLIFFS FIELD
SAN JUAN COUNTY, NEW MEXICO

<u>DEPTH</u>	<u>DEVIATION - DEGREES</u>	<u>HORIZONTAL DISPLACEMENT (FT.)</u>	<u>CUMULATIVE</u>
350	0.50	3.1	3.1
710	0.50	3.1	6.2
1202	1.00	8.6	14.8
1734	1.00	9.3	24.1
2268	.75	7.0	31.1
2805	.75	7.0	38.1
3313	.75	4.3	42.4

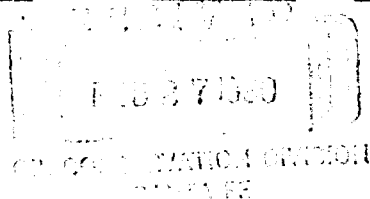
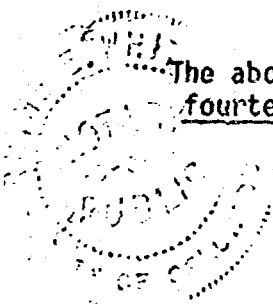
I hereby swear or affirm that the information given herewith is a complete and correct record of all deviation surveys on this well so far as can be determined from available records.

Signed



Title: District Production Manager

The above Affidavit of Deviation Surveys was subscribed and sworn to before me this fourteenth day of January, 19 80.



Ruth E. Whitsett
NOTARY PUBLIC

My commission expires April 22, 19 81.

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NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104
 Supersedes Old C-104 and C-110
 Effective 1-1-55

I. OPERATOR

UNION TEXAS PETROLEUM CORPORATION

Address
1860 Lincoln Street, #1010, Denver, Colorado 80295

Reason(s) for filing (Check proper box) Other (Please explain)

New Well ☒ Change in Transporter of:
 Recompletion ☐ Oil ☐ Dry Gas ☐
 Change in Ownership ☐ Casinghead Gas ☐ Condensate ☐

If change of ownership give name
 and address of previous owner

II. DESCRIPTION OF WELL AND LEASE

Lease Name JOHNSTON FEDERAL	Well No. 11-Y	Pool Name, including Formation Blanco Pictured Cliffs	Kind of Lease State, Federal or Fee Federal
Location Unit Letter N ; 990 Feet From The S Line and 790 Feet From The W Line of Section 7 , Township 31N Range 9W , NMPM, San Juan County			

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/> Plateau, Inc.	Address (Give address to which approved copy of this form is to be sent) 1921 Bloomfield Bldg., Farmington, N. Mexico
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/> El Paso Natural Gas Co.	Address (Give address to which approved copy of this form is to be sent) P. O. Box 990, Farmington, N. Mexico 87401
If well produces oil or liquids, give location of tanks.	Unit Sec. Twp. Rge. Is gas actually connected? When N 7 31N 9W No

If this production is commingled with that from any other lease or pool, give commingling order number:

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v.	Diff. Res'v.
		X	X					
Date Spudded 7/23/79	Date Compl. Ready to Prod. 12/4/79	Total Depth 3650' KB	P.B.T.D. 3644' KB					
Pool Blanco Pictured Cliffs	Name of Producing Formation Pictured Cliffs	Top Oil/Gas Pay 3433'	Tubing Depth 3420' KB					
Perforations 3433-36; 3440-42; 3447-3453; 3462-3470; 3476-80; 3485-91 w/35 jet shots			Depth Casing Shoe 3654' KB					
TUBING, CASING, AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT					
12-1/4"	9-5/8"	334'	200 sx.					
7-7/8"	5-1/2"	3654'	1200 sx.					
	2-3/8"	3420'						

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

(Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

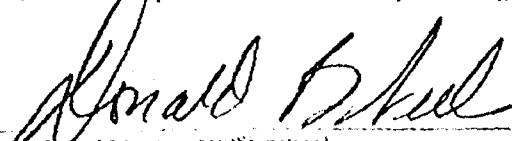
Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil-Bbls.	Water-Bbls.	Gas-MCF

GAS WELL

Actual Prod. Test-MCF/D 1572	Length of Test 3	Bbls. Condensate/MCF	Gravity of Condensate
Testing Method (pilot, back pr.) Positive Choke	Tubing Pressure 118	Casing Pressure	Choke Size 3/4"

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.


 DONALD B. WEEBERS
 District Production Manager

OIL CONSERVATION COMMISSION

APPROVED _____, 19____

BY _____

TITLE _____

This form is to be filed in compliance with RULE 1104.
 If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.
 All portions of this form must be filled out completely for allow-

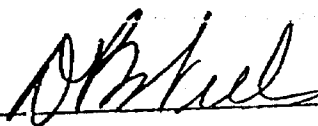
AFFIDAVIT OF DEVIATION SURVEYS

SUBJECT WELL: JOHNSTON FEDERAL #11-Y
SE SW SECTION 7-T31N-R9W
BLANCO PICTURED CLIFFS FIELD
SAN JUAN COUNTY, NEW MEXICO

<u>DEPTH</u>	<u>DEVIATION - DEGREES</u>	<u>HORIZONTAL DISPLACEMENT (FT.)</u>	<u>CUMULATIVE</u>
350	0.50	3.1	3.1
710	0.50	3.1	6.2
1202	1.00	8.6	14.8
1734	1.00	9.3	24.1
2268	.75	7.0	31.1
2805	.75	7.0	38.1
3313	.75	4.3	42.4

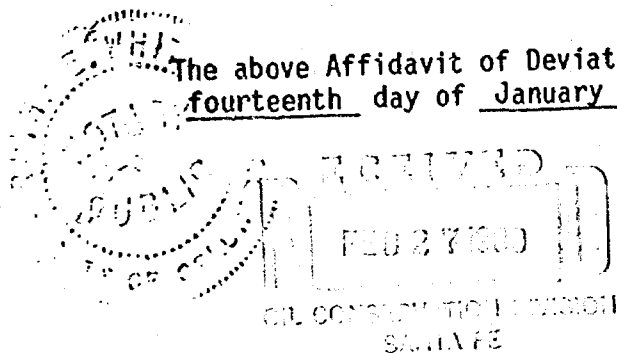
I hereby swear or affirm that the information given herewith is a complete and correct record of all deviation surveys on this well so far as can be determined from available records.

Signed



Title: District Production Manager

The above Affidavit of Deviation Surveys was subscribed and sworn to before me this fourteenth day of January, 19 80.



Ruth E. Whitsett
NOTARY PUBLIC

My commission expires April 22, 19 81.

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NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE

Form C-104
Supersedes Old C-104 and C-110
Effective 1-1-65

AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Case 6840

I. Operator

UNION TEXAS PETROLEUM CORPORATION

Address

1860 Lincoln Street, #1010, Denver, Colorado 80295

Reason(s) for filing (Check proper box)

New Well ☒ Change in Transporter of: Oil ☐ Dry Gas ☐

Recompletion ☐ Oil ☐ Dry Gas ☐

Change in Ownership ☐ Casinghead Gas ☐ Condensate ☐

Other (Please explain)

If change of ownership give name and address of previous owner

II. DESCRIPTION OF WELL AND LEASE

Lease Name	Well No.	Pool Name, Including Formation	Kind of Lease
JOHNSTON FEDERAL	11-Y	Blanco Pictured Cliffs	State, Federal or Fee Federal
Location			
Unit Letter N	990 Feet From The S Line and 790' Feet From The W		
Line of Section 7	Township 31N	Range 9W	NMPM, San Juan County

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Plateau, Inc.	1921 Bloomfield Bldg., Farmington, N. Mexico
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
El Paso Natural Gas Co.	P. O. Box 990, Farmington, N. Mexico 87401
If well produces oil or liquids, give location of tanks.	Unit Sec. Twp. Rge. It gas actually connected? When
N 7 31N 9W	No

If this production is commingled with that from any other lease or pool, give commingling order number:

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v.	Diff. Res'v.
		X	X					
Date Spudded	Date Compl. Ready to Prod.	Total Depth	P.B.T.D.					
7/23/79	12/4/79	3650' KB	3644' KB					
Pool	Name of Producing Formation	Top Oil/Gas Pay	Tubing Depth					
Blanco Fruitland	Fruitland	3275'	3420'					
Perforations	Depth Casing Shoe							
3334-38; 3346-52; 3356-60; 3372-78; 3383-90; 3404-12; w/41 jet shots	3654'							
TUBING, CASING, AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT					
12-1/4"	9-5/8"	334'	200 sx.					
7-7/8"	5-1/2"	3654'	1200 sx.					
--	2-3/8"	3420'	--					

V. TEST DATA AND REQUEST FOR ALLOWABLE (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

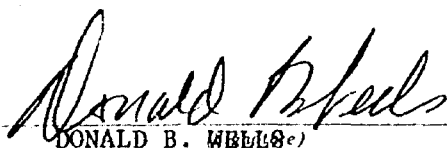
Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil-Bbls.	Water-Bbls.	Gas-MCF

GAS WELL

Actual Prod. Test-MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
604	3	--	--
Testing Method (pitot, back pr.)	Tubing Pressure	Casing Pressure	Choke Size
Positive Choke	--	50#	3/4"

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.


DONALD B. WEBB

District Production Manager
(Title)

February 21, 1980
(Date)

OIL CONSERVATION COMMISSION

APPROVED _____ 19 _____

BY _____

TITLE _____

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out Sections I, II, III, and VI only for changes of owner, well name or number, or transporter, or other such change of condition.

Separate Forms C-104 must be filed for each pool in multiply

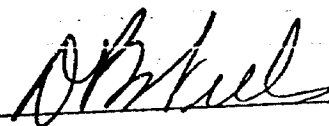
AFFIDAVIT OF DEVIATION SURVEYS

SUBJECT WELL: JOHNSTON FEDERAL #11-Y
SE SW SECTION 7-T31N-R9W
BLANCO PICTURED CLIFFS FIELD
SAN JUAN COUNTY, NEW MEXICO

<u>DEPTH</u>	<u>DEVIATION - DEGREES</u>	<u>HORIZONTAL DISPLACEMENT (FT.)</u>	<u>CUMULATIVE</u>
		3.1	3.1
350	0.50		
		3.1	6.2
710	0.50		
		8.6	14.8
1202	1.00		
		9.3	24.1
1734	1.00		
		7.0	31.1
2268	.75		
		7.0	38.1
2805	.75		
		4.3	42.4
3313	.75		

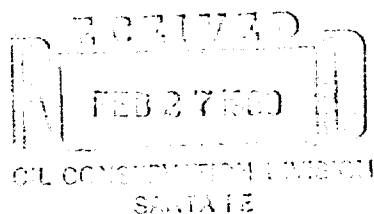
I hereby swear or affirm that the information given herewith is a complete and correct record of all deviation surveys on this well so far as can be determined from available records.

Signed



Title: District Production Manager

The above Affidavit of Deviation Surveys was subscribed and sworn to before me this
fourteenth day of January, 19 80.



Ruth E. Whitell
NOTARY PUBLIC

My commission expires April 22, 19 81.

SANTA FE
FILE
U.S.G.S.
LAND OFFICE
TRANSPORTER OIL
GAS
OPERATOR
PRORATION OFFICE

NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104
Supersedes Old C-104 and C-110
Effective 1-1-65

UNION TEXAS PETROLEUM CORPORATION
1860 Lincoln Street, #1010, Denver, Colorado 80295
Reason(s) for filing (check proper box)
New Well ☒
Recompletion ☐
Change in Ownership ☐
Change in Transporter of:
Oil ☐
Casinghead Gas ☐
Dry Gas ☐
Condensate ☐
Other (Please explain)

If change of ownership give name and address of previous owner

II. DESCRIPTION OF WELL AND LEASE

Lease Name
JOHNSTON FEDERAL
Well No. 11-Y
Pool Name, including Formation Blanco Pictured Cliffs
Kind of Lease Federal
Location
Unit Letter N : 990 Feet From The S Line and 790' Feet From The W
Line of Section 7, Township 31N Range 9W, NMPM, San Juan County

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil ☐ or Condensate ☒ Plateau, Inc.
Address (Give address to which approved copy of this form is to be sent) 1921 Bloomfield Bldg., Farmington, N. Mexico
Name of Authorized Transporter of Casinghead Gas ☐ or Dry Gas ☒ El Paso Natural Gas Co.
Address (Give address to which approved copy of this form is to be sent) P. O. Box 990, Farmington, N. Mexico 87401
If well produces oil or liquids, give location of tanks. Unit N Sec. 7 Twp. 31N Rge. 9W
Is gas actually connected? No When

IV. COMPLETION DATA

Designate Type of Completion - (X) Oil Well Gas Well New Well Workover Deepen Plug Back Same Res'v. Diff. Res'v.
Date Spudded 7/23/79 Date Compl. Ready to Prod. 12/4/79 Total Depth 3650' KB P.B.T.D.
Pool Blanco Fruitland Name of Producing Formation Fruitland Top Oil/Gas Pay 3275' Tubing Depth 3644' KB
Perforations 3334-38; 3346-52; 3356-60; 3372-78; 3383-90; 3404-12; w/41 jet shots Depth Casing Shoe 3420'
HOLE SIZE 12-1/4" TUBING, CASING, AND CEMENTING RECORD
7-7/8" CASING & TUBING SIZE 9-5/8" DEPTH SET 334' SACKS CEMENT 200 SX.
5-1/2" 3654' 1200 SX.
2-3/8" 3420'

V. TEST DATA AND REQUEST FOR ALLOWABLE

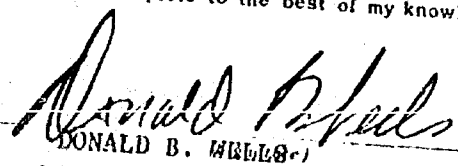
OIL WELL
Date First New Oil Run To Tanks Date of Test
Length of Test 3000
Tubing Pressure
Actual Prod. During Test Oil-Bbls.
Producing Method (Flow, pump, gas lift, etc.)
Casing Pressure
Choke Size
Water-Bbls.
Gas-MCF

GAS WELL

Actual Prod. Test-MCF/D 604 Length of Test 3 Bbls. Condensate/MMCF Gravity of Condensate
Testing Method (pilot, back pr.) Positive Choke Tubing Pressure 50# Choke Size 3/4"
Casing Pressure

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.


DONALD B. WELLS
District Production Manager
(Title)

February 21, 1980
(Date)

APPROVED _____, 19____
BY _____
TITLE _____

OIL CONSERVATION COMMISSION
This form is to be filed in compliance with RULE 1104.
If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.
All sections of this form must be filled out completely for allowable on new and recompleted wells.
Fill out Sections I, II, III, and VI only for changes of owner, well name or number, or transporter, or other such change of condition.
Separate Forms C-104 must be filed for each pool in multiply completed wells.

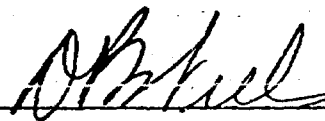
AFFIDAVIT OF DEVIATION SURVEYS

SUBJECT WELL: JOHNSTON FEDERAL #11-Y
SE SW SECTION 7-T31N-R9W
BLANCO PICTURED CLIFFS FIELD
SAN JUAN COUNTY, NEW MEXICO

<u>DEPTH</u>	<u>DEVIATION - DEGREES</u>	<u>HORIZONTAL DISPLACEMENT (FT.)</u>	<u>CUMULATIVE</u>
350	0.50	3.1	3.1
710	0.50	3.1	6.2
1202	1.00	8.6	14.8
1734	1.00	9.3	24.1
2268	.75	7.0	31.1
2805	.75	7.0	38.1
3313	.75	4.3	42.4

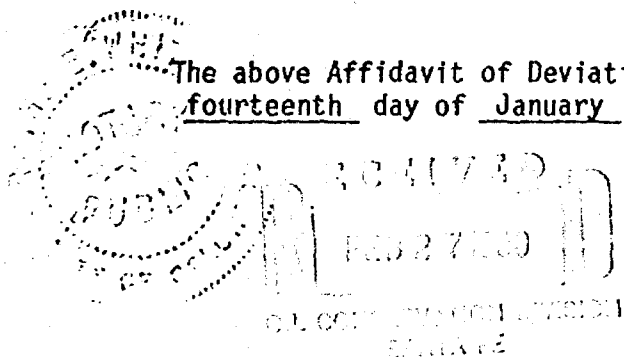
I hereby swear or affirm that the information given herewith is a complete and correct record of all deviation surveys on this well so far as can be determined from available records.

Signed



Title: District Production Manager

The above Affidavit of Deviation Surveys was subscribed and sworn to before me this fourteenth day of January, 19 80.



Ruth E. Whitsett
NOTARY PUBLIC

My commission expires April 22, 19 81.

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TRANSPORTER	OIL GAS
OPERATOR	
PRORATION OFFICE	

NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104
 Supersedes Old C-104 and C-110
 Effective 1-1-65

I. OPERATOR
PRORATION OFFICE

Operator
UNION TEXAS PETROLEUM CORPORATION
 Address
1860 Lincoln Street, #1010, Denver, Colorado 80295

Reason(s) for filing (Check proper box) Other (Please explain)

New Well ☒ Change in Transporter of:
 Recompletion ☐ Oil ☐ Dry Gas ☐
 Change in Ownership ☐ Casinghead Gas ☐ Condensate ☐

If change of ownership give name
 and address of previous owner _____

II. DESCRIPTION OF WELL AND LEASE

Lease Name JOHNSTON FEDERAL	Well No. 11-Y	Pool Name, including Formation Blanco Pictured Cliffs	Kind of Lease State, Federal or Fee Federal
Location Unit Letter N 990 Feet From The S Line and 790' Feet From The W Line of Section 7 Township 31N Range 9W , NMPM, San Juan County			

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/> Plateau, Inc.	Address (Give address to which approved copy of this form is to be sent) 1921 Bloomfield Bldg., Farmington, N. Mexico
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/> El Paso Natural Gas Co.	Address (Give address to which approved copy of this form is to be sent) P. O. Box 990, Farmington, N. Mexico 87401
If well produces oil or liquids, give location of tanks.	Unit Sec. Twp. Rge. N 7 31N 9W Is gas actually connected? When No

If this production is commingled with that from any other lease or pool, give commingling order number: _____

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v.	Diff. Res'v.
		X	X					
Date Spudded 7/23/79	Date Compl. Ready to Prod. 12/4/79	Total Depth 3650' KB	P.B.T.D. 3644' KB					
Pool Blanco Fruitland	Name of Producing Formation Fruitland	Top Oil/Gas Pay 3275'	Tubing Depth 3420'					
Perforations 3334-38; 3346-52; 3356-60; 3372-78; 3383-90; 3404-12; w/41 jet shots		Depth Casing Shoe 3654'						
TUBING, CASING, AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT					
12-1/4"	9-5/8"	334'	200 sx.					
7-7/8"	5-1/2"	3654'	1200 sx.					
---	2-3/8"	3420'	---					

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

(Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF

GAS WELL

Actual Prod. Test - MCF/D 604	Length of Test 3	Bbls. Condensate/MCF ---	Gravity of Condensate ---
Testing Method (pilot, back pr.) Positive Choke	Tubing Pressure ---	Casing Pressure 500	Choke Size 3/4"

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.


DONALD B. MUNN

District Production Manager
 (Title)

OIL CONSERVATION COMMISSION

APPROVED _____, 19 _____

BY _____

TITLE _____

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

AFFIDAVIT OF DEVIATION SURVEYS

SUBJECT WELL: JOHNSTON FEDERAL #11-Y
SE SW SECTION 7-T31N-R9W
BLANCO PICTURED CLIFFS FIELD
SAN JUAN COUNTY, NEW MEXICO

<u>DEPTH</u>	<u>DEVIATION - DEGREES</u>	<u>HORIZONTAL DISPLACEMENT (FT.)</u>	<u>CUMULATIVE</u>
350	0.50	3.1	3.1
710	0.50	3.1	6.2
1202	1.00	8.6	14.8
1734	1.00	9.3	24.1
2268	.75	7.0	31.1
2805	.75	7.0	38.1
3313	.75	4.3	42.4

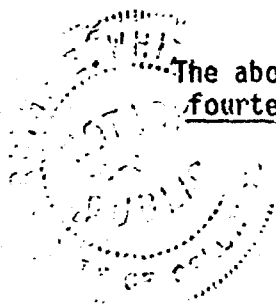
I hereby swear or affirm that the information given herewith is a complete and correct record of all deviation surveys on this well so far as can be determined from available records.

Signed



Title: District Production Manager

The above Affidavit of Deviation Surveys was subscribed and sworn to before me this fourteenth day of January, 19 80.



OIL CONSERVATION DIVISION
SANTA FE


NOTARY PUBLIC

My commission expires April 22, 19 81.

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TRANSPORTER	OIL GAS
OPERATOR	
PROMOTION OFFICE	

NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104
 Supersedes Old C-104 and C-110
 Effective 1-1-65

I. OPERATOR

Operator
UNION TEXAS PETROLEUM CORPORATION

Address
1860 Lincoln Street, #1010, Denver, Colorado 80295

Reason(s) for filing (check proper box) Other (Please explain)

New Well ☒ Change in Transporter of:
 Recompletion ☐ Oil ☐ Dry Gas ☐
 Change in Ownership ☐ Casinghead Gas ☐ Condensate ☐

If change of ownership give name and address of previous owner

II. DESCRIPTION OF WELL AND LEASE

Lease Name JOHNSTON FEDERAL	Well No. 11-Y	Pool Name, including Formation Blanco Pictured Cliffs	Kind of Lease State, Federal or Fee Federal
Location Unit Letter N ; 990 Feet From The S Line and 790' Feet From The W Line of Section 7 , Township 31N Range 9W , NMPM, San Juan County			

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/> Plateau, Inc.	Address (Give address to which approved copy of this form is to be sent) 1921 Bloomfield Bldg., Farmington, N. Mexico
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/> El Paso Natural Gas Co.	Address (Give address to which approved copy of this form is to be sent) P. O. Box 990, Farmington, N. Mexico 87401
If well produces oil or liquids, give location of tanks. Unit N Sec. 7 Twp. 31N Rge. 9W	Is gas actually connected? No When

If this production is commingled with that from any other lease or pool, give commingling order number:

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res ^{rv} .	Diff. Res ^{rv} .
		X	X					
Date Spudded 7/23/79	Date Compl. Ready to Prod. 12/4/79	Total Depth 3650' KB	P.B.T.D. 3644' KB					
Pool Blanco Fruitland	Name of Producing Formation Fruitland	Top Oil/Gas Pay 3275'	Tubing Depth 3420'					
Perforations 3334-38; 3346-52; 3356-60; 3372-78; 3383-90; 3404-12; w/41 jet shots			Depth Casing Shoe 3654'					
TUBING, CASING, AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT					
12-1/4"	9-5/8"	334'	200 sx.					
7-7/8"	5-1/2"	3654'	1200 sx.					
	2-3/8"	3420'						

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

(Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil-Bbls.	Water-Bbls.	Gas-MCF

GAS WELL

Actual Prod. Test-MCF/D 604	Length of Test 3	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pilot, back pr.) Positive Choke	Tubing Pressure	Casing Pressure 50#	Choke Size 3/4"

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Donald B. Wells
DONALD B. WELLS
 District Production Manager
 (Title)
 February 21, 1980
 (Date)

OIL CONSERVATION COMMISSION

APPROVED _____, 19 _____

BY _____

TITLE _____

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

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AFFIDAVIT OF DEVIATION SURVEYS

SUBJECT WELL: JOHNSTON FEDERAL #11-Y
SE SW SECTION 7-T31N-R9W
BLANCO PICTURED CLIFFS FIELD
SAN JUAN COUNTY, NEW MEXICO

<u>DEPTH</u>	<u>DEVIATION - DEGREES</u>	<u>HORIZONTAL DISPLACEMENT (FT.)</u>	<u>CUMULATIVE</u>
350	0.50	3.1	3.1
710	0.50	3.1	6.2
1202	1.00	8.6	14.8
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2805	.75	7.0	38.1
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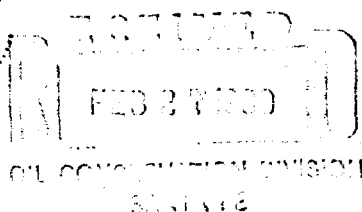
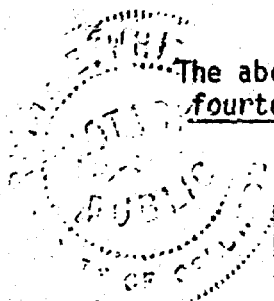
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Signed



Title: District Production Manager

The above Affidavit of Deviation Surveys was subscribed and sworn to before me this fourteenth day of January, 19 80.




NOTARY PUBLIC

My commission expires April 22, 19 81.

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TRANSPORTER	OIL GAS	
OPERATOR		
PRODUCTION OFFICE		

NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104
 Supersedes Old C-104 and C-110
 Effective 1-1-65

I. OPERATOR

UNION TEXAS PETROLEUM CORPORATION

Address:
1860 Lincoln Street, #1010, Denver, Colorado 80295

Reason(s) for filing (check proper box)

New Well ☒ Change in Transporter of:
 Recompletion ☐ Oil ☐ Dry Gas ☐
 Change in Ownership ☐ Casinghead Gas ☐ Condensate ☐

Other (Please explain)

If change of ownership give name
 and address of previous owner

II. DESCRIPTION OF WELL AND LEASE

Lease Name JOHNSTON FEDERAL	Well No. 11-Y	Pool Name, including Formation Blanco Pictured Cliffs	Kind of Lease State, Federal or Fee Federal
Location			
Unit Letter N	990 Feet From The S Line and 790' Feet From The W		
Line of Section 7	Township 31N	Range 9W	NMPM, San Juan County

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Plateau, Inc.	1921 Bloomfield Bldg., Farmington, N. Mexico
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
El Paso Natural Gas Co.	P. O. Box 990, Farmington, N. Mexico 87401
If well produces oil or liquids, give location of tanks.	Unit Sec. Twp. Rge. Is gas actually connected? When
	N 7 31N 9W No

If this production is commingled with that from any other lease or pool, give commingling order number:

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Restv.	Diff. Restv.
		X	X					
Date Spudded 7/23/79	Date Compl. Ready to Prod. 12/4/79	Total Depth 3650' KB		P.B.T.D. 3644' KB				
Pool Blanco Fruitland	Name of Producing Formation Fruitland	Top Oil/Gas Pay 3275'		Tubing Depth 3420'				
Perforations 3334-38; 3346-52; 3356-60; 3372-78; 3383-90; 3404-12; w/41 jet shots				Depth Casing Shoe 3654'				
TUBING, CASING, AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE	DEPTH SET		SACKS CEMENT				
12-1/4"	9-5/8"	334'		200 sx.				
7-7/8"	5-1/2"	3654'		1200 sx.				
---	2-3/8"	3420'		---				

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

(Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil-Bbls.	Water-Bbls.	Gas-MCF

GAS WELL

Actual Prod. Test-MCF/D 604	Length of Test 3	Bbls. Condensate/MMCF ---	Gravity of Condensate ---
Testing Method (pilot, back pr.) Positive Choke	Tubing Pressure ---	Casing Pressure 500	Choke Size 3/4"

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Donald B. Wheeler
DONALD B. WHEELER
 District Production Manager

OIL CONSERVATION COMMISSION

APPROVED _____, 19 _____

BY _____

TITLE _____

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allow-

AFFIDAVIT OF DEVIATION SURVEYS

SUBJECT WELL: JOHNSTON FEDERAL #11-Y
SE SW SECTION 7-T31N-R9W
BLANCO PICTURED CLIFFS FIELD
SAN JUAN COUNTY, NEW MEXICO

<u>DEPTH</u>	<u>DEVIATION - DEGREES</u>	<u>HORIZONTAL DISPLACEMENT (FT.)</u>	<u>CUMULATIVE</u>
350	0.50	3.1	3.1
710	0.50	3.1	6.2
1202	1.00	8.6	14.8
1734	1.00	9.3	24.1
2268	.75	7.0	31.1
2805	.75	7.0	38.1
3313	.75	4.3	42.4

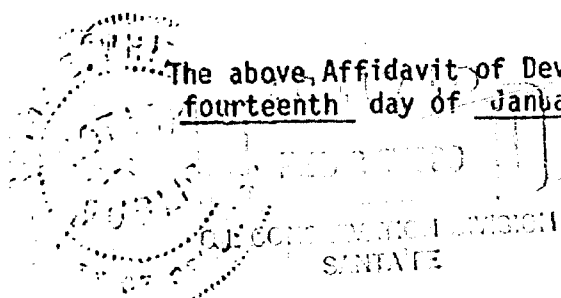
I hereby swear or affirm that the information given herewith is a complete and correct record of all deviation surveys on this well so far as can be determined from available records.

Signed



Title: District Production Manager

The above Affidavit of Deviation Surveys was subscribed and sworn to before me this fourteenth day of January, 19 80.




NOTARY PUBLIC

My commission expires April 22, 19 81.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other ☐
2. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESER. ☐ Other ☐

3. NAME OF OPERATOR
UNION TEXAS PETROLEUM CORPORATION

4. ADDRESS OF OPERATOR
1860 Lincoln St., #1010, Denver, Colorado 80295

5. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface SE SW (990 FSL - 790 FWL) Sec. 7-T31N-R9W
At top prod. interval reported below SAME
At total depth SAME

6. LEASE DESIGNATION AND SERIAL NO.
SF 078439

7. IF INDIAN, ALLOTTEE OR TRIBE NAME

8. UNIT AGREEMENT NAME

9. FARM OR LEASE NAME
JOHNSTON FEDERAL

10. WELL NO.
11Y

11. FIELD AND POOL, OR WILDCAT
Blanco Fruitland

12. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Sec. 7-T31N-R9W

13. COUNTY OR PARISH
San Juan

14. STATE
N.M.

15. ELEV. CASINGHEAD

16. PERMIT NO.
6/22/79

17. DATE T.D. REACHED
7/27/79

18. DATE COMPL. (Ready to prod.)
12/4/79

19. TOTAL DEPTH, MD & TVD
3650

20. PLUG, BACK T.D., MD & TVD
3644

21. IF MULTIPLE COMPL., HOW MANY?
2

22. INTERVALS DRILLED BY
6622 KB

23. ROTARY TOOLS
X

24. CABLE TOOLS

25. WAS DIRECTIONAL SURVEY MADE
No

26. WAS WELL CORED
No

27. TYPE ELECTRIC AND OTHER LOGS RUN
Fruitland 3275 - 3412

28. CNL Density & DIL to 2805: CNL cased hole

CASING RECORD (Report all strings set in well)			CEMENTING RECORD		AMOUNT PULLED
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE		
9-5/8	40#	334	12-1/4	200 SX.	
5-1/2	14#	3654	7-7/8	1200 SX	

TUBING RECORD				PACKER SET (MD)	
SIZE	TOP (MD)	BOTTOM (MD)	SCREEN (MD)	DEPTH SET (MD)	
				3420	3420

PERFORATION RECORD (Interval, size and number)		ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
INTERVAL	SIZE	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
A. 3275-3281; 3286-3289; 3292-3296; 3299-3304; (All cement squeezed)		3334-3412	Acidized w/2500 gal. 15% HCL
B. 3334-3338; 3346-3352; 3356-3360; 3372-3378; -383-3890; 3404-3412; 41 jet shots		3275-3304	Acidized w/1500 gal. 15% HCL squeezed w/300 sx. cement.

PRODUCTION				WELL STATUS (Producing or shut-in)	
DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
12/12/79	Flowing	---	75	trace	---
12/12/79	3 hours	---	604	trace	---

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)
Vented

35. LIST OF ATTACHMENTS

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

SIGNED C. W. Claxton TITLE DIST. PETRO. ENGINEER DATE JAN. 8, 1980

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

(OVER)



Union Texas Petroleum Division
Suite 1010 Lincoln Tower
1860 Lincoln Street
Denver, Colorado 80295

Attachment I

Case 6840

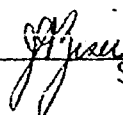
January 14, 1980

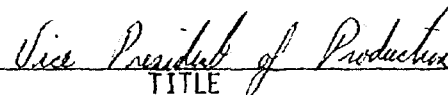
New Mexico Oil Conservation
Commission
P. O. Box 2088
Santa Fe, New Mexico 87501

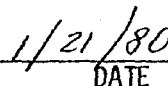
RE: Union Texas Petroleum
Johnston Federal #11Y
SE SW Sec.7-T31N-R9W
San Juan County, N. Mexico

Gentlemen:

Please be advised that KOCH INDUSTRIES, INC. has no objections to Union Texas Petroleum's request for a non standard proration unit for the captioned well.


SIGNED


TITLE


DATE

RECEIVED
JAN 21 1980
OIL CONSERVATION COMMISSION
SANTA FE



Union Texas Petroleum Division
Suite 1010 Lincoln Tower
1860 Lincoln Street
Denver, Colorado 80295

January 14, 1980

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

RE: Union Texas Petroleum
Johnston Federal #11Y
SE SW Sec. 7-T31N-R9W
San Juan County, N. Mexico

Gentlemen:

Please be advised that EL PASO NATURAL GAS CO. has no objections to Union Texas Petroleum's request for a non standard proration unit for the captioned well.

Carl E. Matthews
SIGNED

Regional Production Mgr.
TITLE

1/28/80
DATE

RECEIVED
JAN 28 1980
OIL CONSERVATION COMMISSION
SANTA FE

UNION TEXAS PETROLEUM

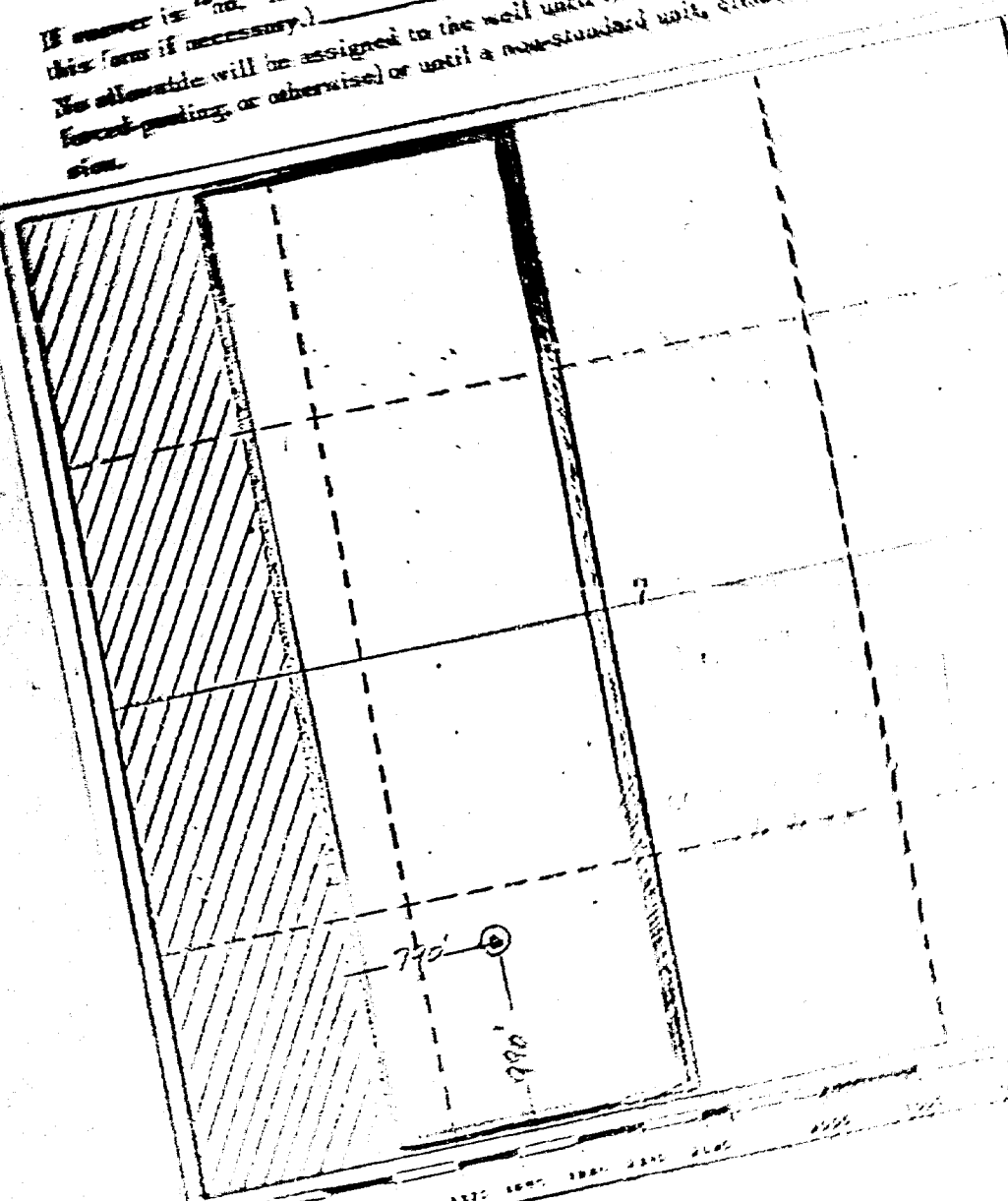
WORTH

SOUTH

PICTURE CLIFFS

990

1. Outline the acreage dedicated to the subject well by crossed parcel or leasehold interest and identify the ownership thereof (this is to be done on the reverse side of this form).
2. If more than one lease is dedicated to the well, outline each and identify the interests of all owners (this is to be done on the reverse side of this form).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?
☐ Yes ☐ No If answer is "yes," type of consolidation
If answer is "no," list the owners and tract descriptions which have actually been consolidated (this is to be done on the reverse side of this form if necessary.)
No allocation will be assigned to the well until all interests have been consolidated by communitization, unitization, force-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Company.



CERTIFICATION

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

Name *[Signature]*
Position *[Signature]*
Company
UNION TEXAS PETROLEUM
Date *8-17*



Date stamped
20-1-1941
District Engineer
Union Texas Petroleum
Company

[Signature]



Union Texas Petroleum Division
Suite 1010 Lincoln Tower
1880 Lincoln Street
Denver, Colorado 80296

January 14, 1980

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

RE: Union Texas Petroleum
Johnston Federal #11Y
SE SW Sec. 7-T31N-R9W
San Juan County, N. Mexico

Gentlemen:

Please be advised that KOCH INDUSTRIES, INC. has no objections to Union Texas Petroleum's request for a non standard proration unit for the captioned well.

J. H. [Signature]
SIGNED

Vice President of Production
TITLE

1/21/80
DATE

RECEIVED
JAN 21 1980
OIL CONSERVATION DIVISION
SANTA FE



Union Texas Petroleum Division
Suite 1010 Lincoln Tower
1800 Lincoln Street
Denver, Colorado 80295

January 14, 1980

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

RE: Union Texas Petroleum
Johnston Federal #11Y
SE SW Sec. 7-T31N-R9W
San Juan County, N. Mexico

Gentlemen:

Please be advised that EL PASO NATURAL GAS CO. has no objections to Union Texas Petroleum's request for a non standard proration unit for the captioned well.

Carl E. Matthews
SIGNED

Regional Production Mgr.
TITLE

1/28/80
DATE

RECEIVED
JAN 21 1980
OIL CONSERVATION DIVISION
SANTA FE

WELL LOCATION AND ACREAGE DEDICATION PLAT

Effective 1-1-65

All distances must be from the outer boundaries of the Section.

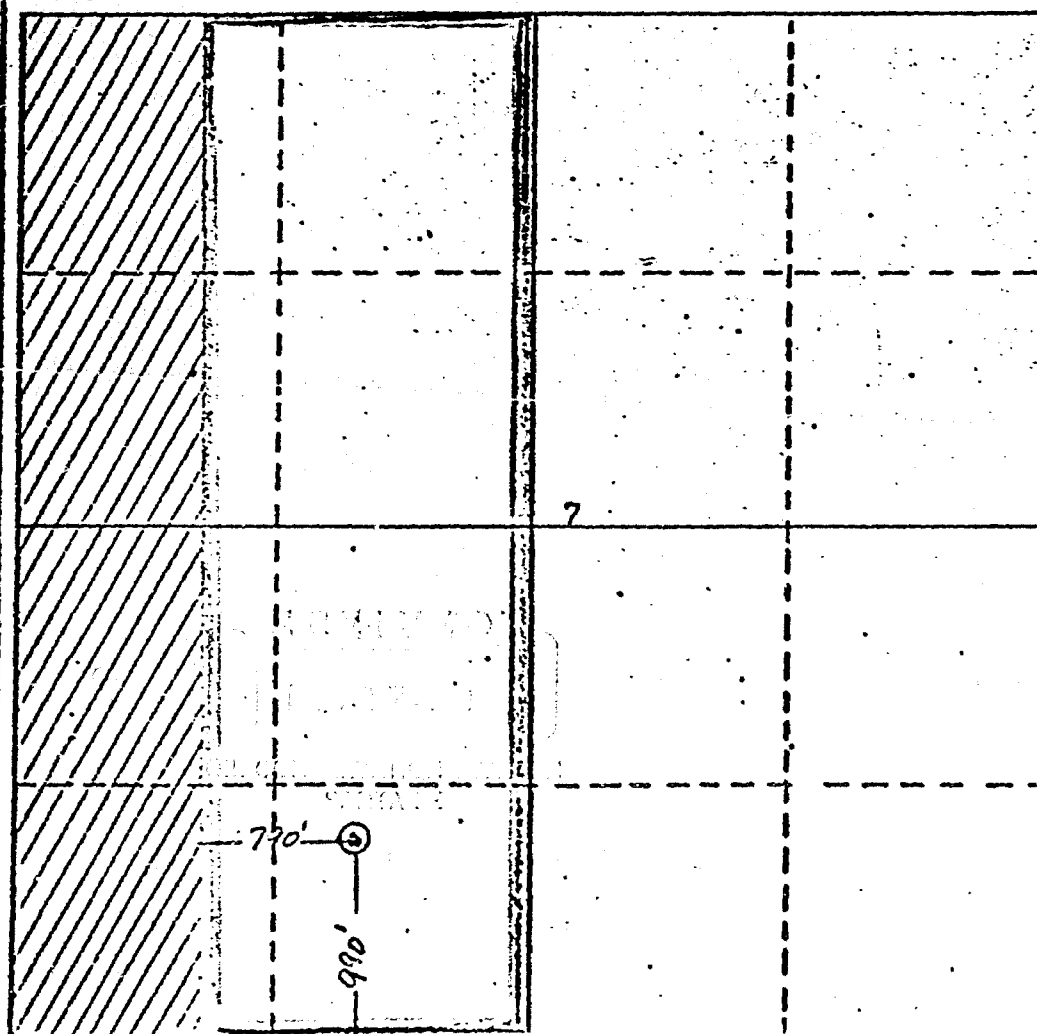
Operator UNION TEXAS PETROLEUM			Lease JOHNSTON FEDERAL		Well No. 11 Y
Unit Letter N	Section 7	Township 31 NORTH	Range 9 WEST	County SAN JUAN	
Actual Footage Location of Well: 990 feet from the SOUTH line and 790 feet from the WEST line					
Ground Level Elev. 6612	Producing Formation PICTURE CLIFFS		Pool BLANCO PICTURED CLIFFS		Dedicated Acreage: 209.5 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

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

Name ABH
 Position DISTRICT PRODUCTION MGR
 Company UNION TEXAS PETROLEUM
 Date 5-3-79

I hereby certify that the location shown on this plat was plotted from field notes of actual survey made by me or under my supervision, and that same is true and correct to the best of my knowledge and belief.

Date Surveyed
24 January 1979

Registered Professional Engineer
and/or Land Surveyor

Michael Daly
 Certificate No. **5992**

...the ... of ...

- b. Plans showing...
- c. Waivers consenting to...
- d. Electrical log of the...

all offset 2/1/77

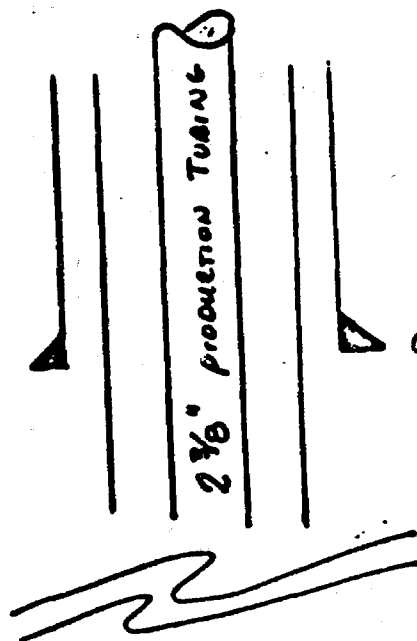
11 FEB 1964

100-443887-100

UNION TEXAS PETROLEUM

JOHNSTON FEDERAL # 11-Y
SE-SW- SEC 7. T 31N - R 9W

DATUM: 6622' (KB) 10' AGL



9 5/8" casing cemented at 334' (KB)
with 200 sx. (cement circulated)

FRUITLAND PERFS:

3275-3281 ; 3286-3289 } squeezed off with
3292-3296 ; 3299-3304 } 300 sx cement

3334-3338 ; 3346-3352 ; 3356-3360
3372-3378 ; 3383-3390 ; 3404-3412

← SLIDING SLEEVE (CLOSED) at 3416

5" F" NIPPLE at 3429'

BAKER MOD. "F" AT 3420 (KB)

PICTURED CLIFFS PERFS:

3433-3436 ; 3440-3442 ; 3447-3453
3462-3470 ; 3476-3480 ; 3485-3491

P.B.T.D. 3644' (K.B.)

5 1/2" casing cemented at 3654' (KB)
with 1200 sx.



Union Texas Petroleum Division
Suite 1010 Lincoln Tower
1860 Lincoln Street
Denver, Colorado 80295

January 14, 1980

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

RE: Union Texas Petroleum
Johnston Federal #11Y
SE SW Sec. 7-T31N-R9W
San Juan County, N. Mexico

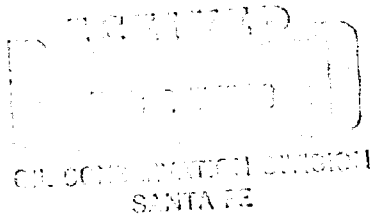
Gentlemen:

Please be advised that EL PASO NATURAL GAS CO. has no objections to Union Texas Petroleum's request to down hole commingle production from the Fruitland and Pictured Cliffs reservoirs in the captioned well.

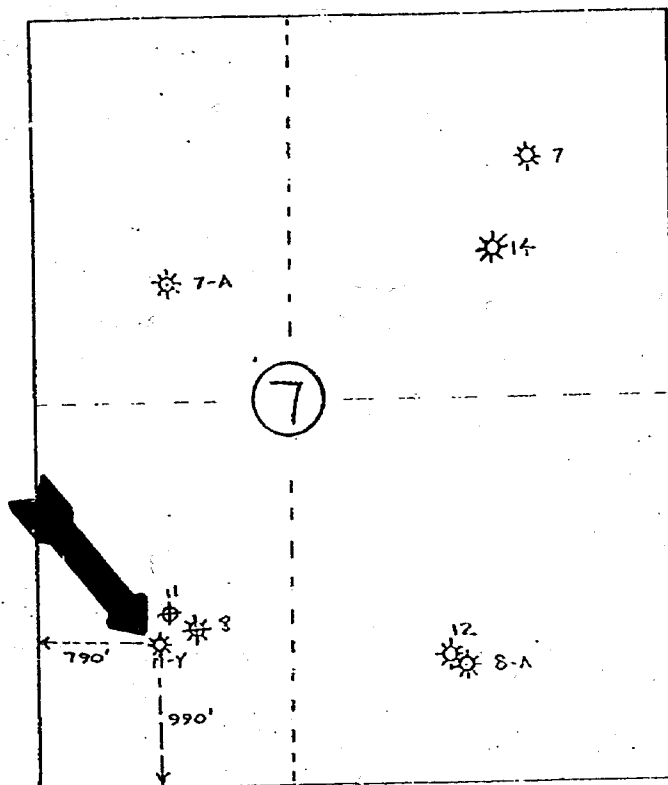
Carl E. Matthews
SIGNED

Regional Production Mgr.
TITLE

1/28/80
DATE



JOHNSTON FEDERAL



UNION TEXAS PETROLEUM

A DIVISION OF ALLIED CHEMICAL CORPORATION

WELL LOCATIONS

Section 7, T-31-N, R-9-W, N.M.P.M.

San Juan County, New Mexico

Scale: 4" = 1 mile

DENVER



Union Texas Petroleum Division
Suite 1010 Lincoln Tower
1880 Lincoln Street
Denver, Colorado 80296

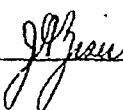
January 14, 1980

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

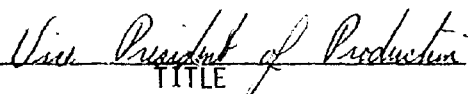
RE: Union Texas Petroleum
Johnston Federal #11Y
SE SW Sec.7-T31N-R9W
San Juan County, N. Mexico

Gentlemen:

Please be advised that KOCH INDUSTRIES, INC. has no objections to Union Texas Petroleum's request to down hole commingle production from the Fruitland and Pictured Cliffs reservoirs in the captioned well.



SIGNED

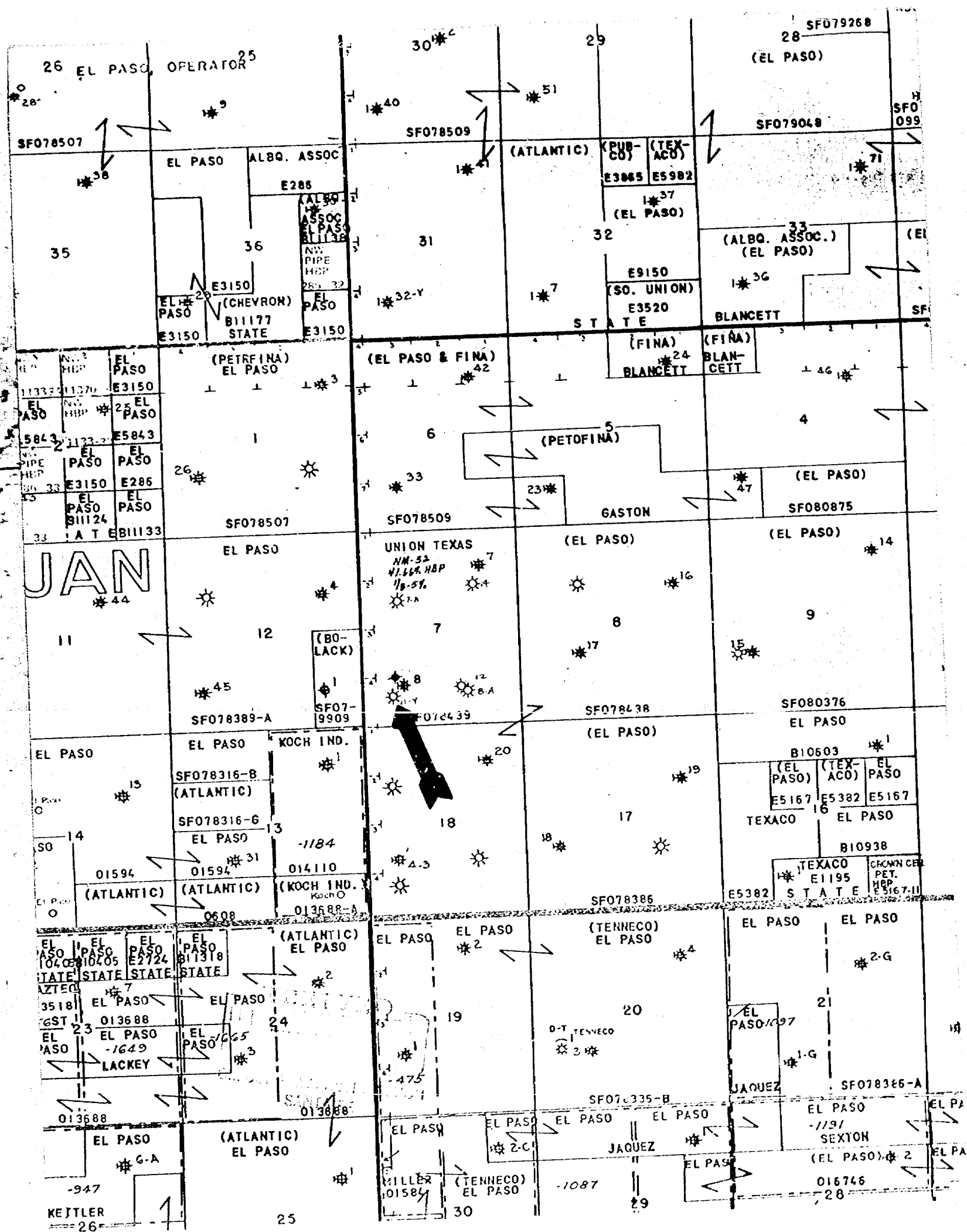


TITLE



DATE

7-11-77
1-23-78
OIL CONSERVATION DIVISION
SANTA FE



NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
APPLICATION FOR MULTIPLE COMPLETION

Form C-107
5-1-81

Operator UNION TEXAS PETROLEUM CORPORATION		County San Juan	Date January 23, 1980
Address 1860 Lincoln, #1010, Denver, Colorado 80295		Lease Johnston Federal	Well No. 11-Y
Location of Well N	Unit 7	Township 31N	Range 9W

1. Has the New Mexico Oil Conservation Commission heretofore authorized the multiple completion of a well in these same pools or in the same zones within one mile of the subject well? YES _____ NO X
2. If answer is yes, identify one such instance: Order No. _____; Operator Lease, and Well No.: _____

3. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Blanco Fruitland		Blanco Pictured Cliffs
b. Top and Bottom of Pay Section (Perforations)	3334 - 3412		3433 - 3491
c. Type of production (Oil or Gas)	Gas		Gas
d. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing

4. The following are attached. (Please check YES or NO)

- | | | |
|-------------------------------------|--------------------------|---|
| Yes | No | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | a. Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | c. Waivers consenting to such multiple completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application.* |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | d. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed it shall be submitted as provided by Rule 112-A.) |

5. List all offset operators to the lease on which this well is located together with their correct mailing address.

El Paso Natural Gas Co., P. O. Box 990, Farmington, N. Mexico 87401

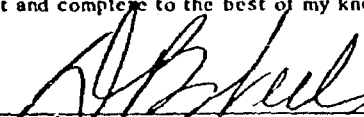
Koch Exploration Co., 901 N. Butler, Farmington, N. Mexico 87401

6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES _____ NO X. If answer is yes, give date of such notification. On 1/14/80 they were notified & waivers were requested. Copy of

Form C-107 not sent.

CERTIFICATE: I, the undersigned, state that I am the _____ of the _____ (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

SANTA FE


Signature

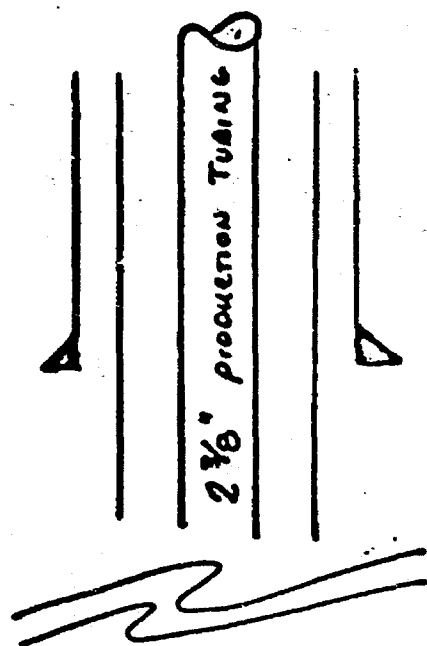
*Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard perforation unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

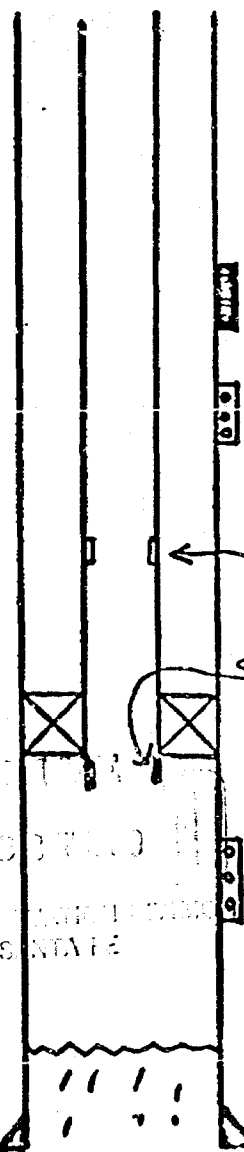
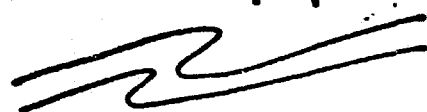
UNION TEXAS PETROLEUM

JOHNSTON FEDERAL # 11-Y
SE-SW- SEC 7- T 31N - R 9W

DATUM: 6622' (KB) 10' AGL



9 5/8" casing cemented at 334' (KB)
with 200 sx. (cement circulated)



FRUITLAND PERFS:

3275-3281 ; 3286-3289 } SQUEEZED OFF WITH
3292-3296 ; 3299-3304 } 300 SX CEMENT

3334-3338 ; 3344-3352 ; 3356-3360
3372-3378 ; 3383-3390 ; 3404-3412

← SLIDING SLEEVE (CLOSED) at 3416

5" F" NIPPLE at 3429'

BAKER MOD. "F" AT 3420 (KB)

PICTURED CLIFFS PERFS:

3433-3436 ; 3440-3442 ; 3447-3453
3462-3470 ; 3476-3480 ; 3485-3491

P.B.T.D. 3644' (K.B.)

5 1/2" casing cemented at 3654' (KB)
with 1200 sx.



Union Texas Petroleum Division
Suite 1010 Lincoln Tower
1860 Lincoln Street
Denver, Colorado 80295

January 14, 1980

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

RE: Union Texas Petroleum
Johnston Federal #11Y
SE SW Sec. 7-T31N-R9W
San Juan County, N. Mexico

Gentlemen:

Please be advised that EL PASO NATURAL GAS CO. has no objections to Union Texas Petroleum's request to down hole commingle production from the Fruitland and Pictured Cliffs reservoirs in the captioned well.

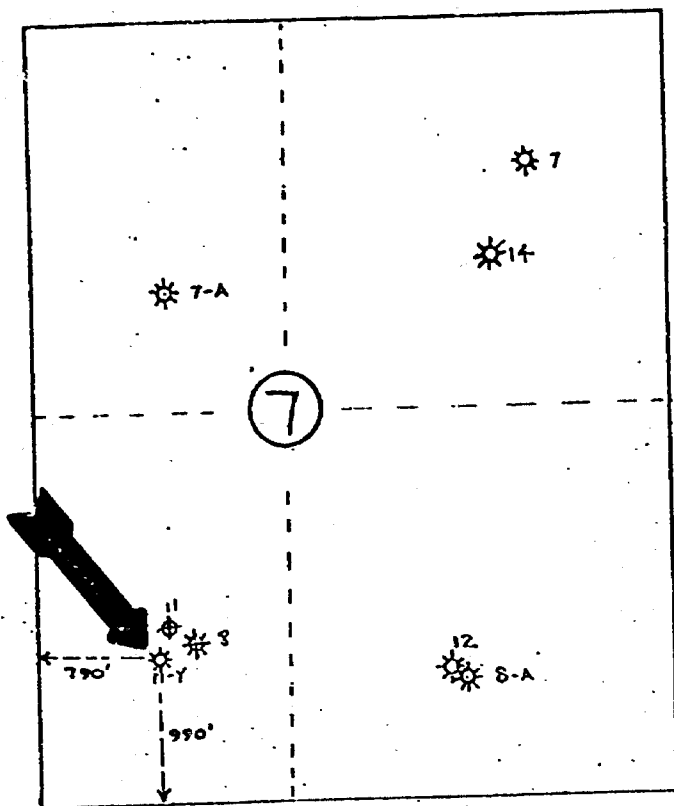
Carl E. Matthews
SIGNED

Regional Production Mgr.
TITLE

1/28/80
DATE

RECEIVED
FEB 1 1980
OIL CONSERVATION COMMISSION
SANTA FE

JOHNSTON FEDERAL



RECEIVED
FEB 27 1941
OIL AND GAS DIVISION
SANTA FE

<p>UNION TEXAS PETROLEUM A DIVISION OF ALLIED CHEMICAL CORPORATION</p>
<p>WELL LOCATIONS</p>
<p>Section 7, T-31-N, R-9-W, N.M.P.M. San Juan County, New Mexico Scale: 4" = 1 mile DENVER.</p>



Union Texas Petroleum Division
Suite 1010 Lincoln Tower
1880 Lincoln Street
Denver, Colorado 80295

January 14, 1980

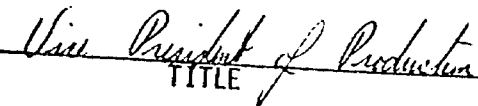
New Mexico Oil Conservation
Commission
P. O. Box 2088
Santa Fe, New Mexico 87501

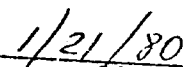
RE: Union Texas Petroleum
Johnston Federal #11Y
SE SW Sec. 7-T31N-R9W
San Juan County, N. Mexico

Gentlemen:

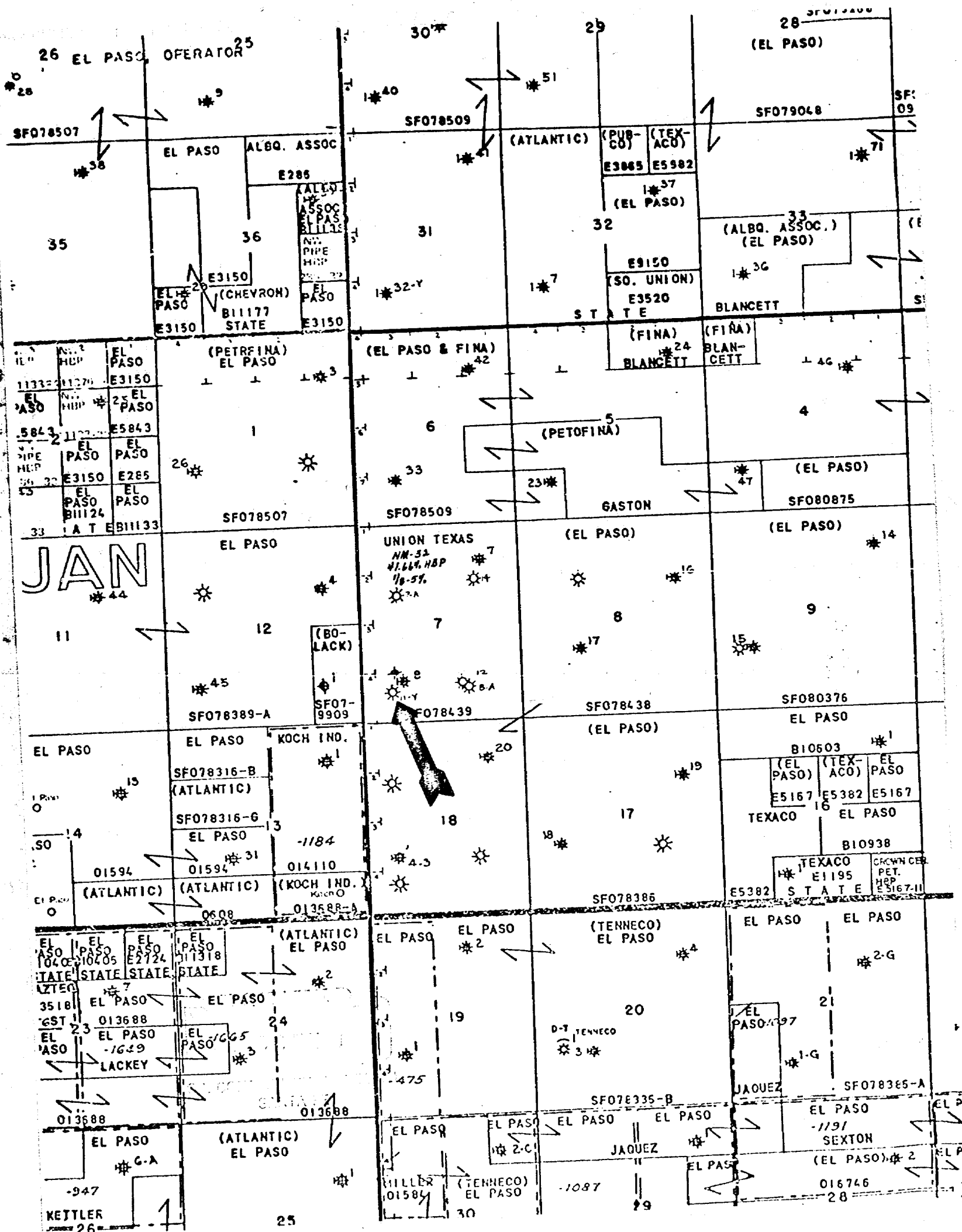
Please be advised that KOCH INDUSTRIES, INC. has no objections to Union Texas Petroleum's request to down hole commingle production from the Fruitland and Pictured Cliffs reservoirs in the captioned well.

 SIGNED

 TITLE

 DATE

RECEIVED
JAN 17 1980
NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE



Form 1-531
(May 1963)

ATTACHMENT III

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

SF-078439

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

JOHNSTON FEDERAL

9. WELL NO.

NO. 11Y

10. FIELD AND POOL, OR WILDCAT

BLANCO PICTURED CLIFFS

11. SEC., T., R., N., OR BLK. AND
SURVEY OR AREA

SEC. 7-T31N-R9W

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, ST, CR, etc.)

6612' GR

12. COUNTY OR PARISH

SAN JUAN

13. STATE

NEW MEXICO

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

FULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

COMPLETION

(Note: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

10/11 thru 10/15

1. MIRU pulling unit and install BDP
2. Perforate Pictured Cliffs formation with 35 holes as follows:
3433-3436; 3440-3442; 3447-3453; 3462-3470; 3476-3480; 3485-3491
3. Acidize Pictured Cliffs with 1500 gallons 7-1/2% HCl
4. Foam frac Pictured Cliffs with 96000# sand (75 quality foam)
5. Swab and flow Pictured Cliffs to clean up after frac

10/16 thru 10/22

6. Set retrievable bridge plug at 3420 to shut off Pictured Cliffs
7. Perforate Fruitland with 1 hole per foot as follows:
3275-3281; 3286-3289; 3292-3296; 3299-3304; 3334-3338; 3346-3352;
3356-3360; 3372-3378; 3383-3390; 3404-3412
8. Acidize Fruitland from 3334-3412 with 2500 gal. 15% HCL
9. Acidize Fruitland from 3275-3304 with 1500 gal. 15% HCL
10. Swab and flow test Fruitland to clean up zone
11. While circulating sand off bridge plug at 3420 noticed returns between
5-1/2" casing and 9-5/8" casing

18. I hereby certify that the foregoing is true and correct.

SIGNED

DONALD B. WELLS

TITLE DIST. PRODUCTION MGR.

DATE DECEMBER 11, 197

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

Instructions

General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 17: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

10/23 thru 10/27

12. Straddle Fruitland perfs from 3275 and 3304 and cement squeeze with 300 sacks of cement (had circulation to surface).
13. Squeeze Braiden head with 50 sx. cement.
14. Test squeeze to 1300# and held okay. Clean out to PBTD of 3644'.

10/28 thru 11/11

15. Swab and flow test all zones. Hole still loading with water.

11/21 thru 11/26

16. Run packer to 3424'. Flow test Pictured Cliffs out tubing and Fruitland out annulus.

11/27 thru 11/28

17. Straddle Fruitland perfs and acidize perfs (3334-3412) with 4000 gal. 15% HCL.

11/29 thru 12/4

18. Set model "F" production packer at 3420'. String into packer with production equipment. Flow tests indicate communication between Fruitland and Pictured Cliffs.
19. Pull and check production string and found sleeve open. Replace and reran.
20. Pressure test indicate Fruitland perfs communicated with Pictured Cliffs - rate suggests only Pictured Cliffs open to production.
21. Shut well in for build up and potential test.
22. After potential test operator will apply for permission to down hole commingle.

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PERMIT IN THIS CATEGORY
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

ATTACHMENT III

6. LEASE DENOMINATION AND SERIAL NO.
SF-078439

8. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
JOHNSTON FEDERAL

9. WELL NO.
NO. 11Y

10. FIELD AND POOL, OR WILDCAT
BLANCO PICTURED CLIFFS

11. SEC., T., R., M., OR BLK. AND
SUBVY OR AREA

SEC. 7-T31N-R9W

1. OIL ☐ GAS ☐ OTHER ☒

2. NAME OF OPERATOR
UNION TEXAS PETROLEUM

3. ADDRESS OF OPERATOR
1860 Lincoln St., #1010, Denver, Colorado 80295

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)
At surface

SE SW. (990' FSL & 790' FWL) SEC. 7-T31N-R9W

14. PERMIT NO.

15. ELEVATIONS (Show whether DV, RT, GR, etc.)

6612' GR

12. COUNTY OR PARISH
SAN JUAN

13. STATE
NEW MEXICO

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

COMPLETION

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

10/11 thru 10/15

1. MIRU pulling unit and install BDP
2. Perforate Pictured Cliffs formation with 35 holes as follows:
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SIGNED DONALD B. WELLS

TITLE DIST. PRODUCTION MGR.

DATE DECEMBER 11, 197

(This space for Federal or State office use)

APPROVED BY
CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

*See Instructions on Reverse Side

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21. Shut well in for build up and potential test.
22. After potential test operator will apply for permission to down hole commingle.

dr/

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. 6840

Order No. R-6312

APPLICATION OF UNION TEXAS PETROLEUM

FOR DOWNHOLE COMMINGLING, SAN JUAN

COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on March 26
19 80, at Santa Fe, New Mexico, before Examiner Richard L.
Stamets.

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, Union
Texas Petroleum, is
the owner and operator of the Johnston Federal Well No. 11Y,
located in Unit N of Section 7, Township 31 North
Range 9 West, NMPM, San Juan County, New Mexico.

(3) That the applicant seeks authority to commingle
Fruitland and Pictured Cliffs production
within the wellbore of the above-described well.

(4) That during the process of completion of the
Fruitland and Pictured Cliffs zones became
communicated behind the production casing

(4) That the Fruitland and Pictured Cliffs
producing intervals are separated by approximately
Twenty Feet

that attempts to separate the two zones by squeeze cementing could result in permanent loss of production from all or part of each zone.

⁶ That ~~from~~ ^{test indicate that} the Fruitland zone ^{is} ~~expected to be capable of low marginal production only~~ ^{the} subject well is capable of low marginal production only.

⁷ That from the Pictured Cliffs zone, the subject well is ^{expected to be} capable of low ^{rates of} marginal production only.

⁸ That the proposed commingling may result in the recovery of additional hydrocarbons from each of the subject pools, thereby preventing waste, and will not violate correlative rights.

⁹ That the reservoir characteristics of each of the subject zones are such that underground waste would not be caused by the proposed commingling provided that the well is not shut-in for an extended period.

¹⁰ That to afford the Division the opportunity to assess the potential for waste and to expeditiously order appropriate remedial action, the operator should notify the Aztec district office of the Division any time the subject well is shut-in for 7 consecutive days.

¹¹ That in order to allocate the commingled production to each of the commingled zones in the subject well, percent of the commingled production should be allocated to the Fruitland zone, and percent of the commingled production to the Pictured Cliffs zone.

(ALTERNATE)

¹² That in order to allocate the commingled production to each of the commingled zones in the wells, applicant should consult with the supervisor of the Aztec district office of the Division and determine an allocation formula for each of the production zones.

¹³ That ~~the operator should conduct~~ said Johnston Federal Well No 11Y should be periodically tested during its first year of production to determine the efficacy of the downhole commingling authorized by this order.

¹⁴ The Director of the Division should be empowered to administratively rescind the commingling authority granted by this order if it should appear that the well is producing

IT IS THEREFORE ORDERED:

(1) That the applicant, Union Texas Petroleum, is hereby authorized to commingle Fruitland and Pictured Cliffs production within the wellbore of the Johnston Federal Well No. 11Y, located in Unit N of Section 7, Township 31 North, Range 9 West, NMPM, San Juan County, New Mexico.

(2) That the applicant shall consult with the Supervisor of the Aztec district office of the Division and determine an allocation formula for the allocation of production to each zone in each of the subject wells. *and a test schedule in accordance with Finding No. (14) above.*
(ALTERNATE)

(2) That _____ percent of the commingled production shall be allocated to the Fruitland zone and _____ percent of the commingled production shall be allocated to the Pictured Cliffs zone.

(3) That the Division shall ~~be~~ witness the tests required by Order (2) above

(4) That the operator of the subject well shall immediately notify the Division's Aztec district office any time the well has been shut-in for 7 consecutive days and shall concurrently present, to the Division, a plan for remedial action.

(5) (6) 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.

(5) That the Director of the Division may administratively rescind the commingling authority granted by this order ~~whenever~~ it should appear that said Johnston Federal Well No. 11Y is producing excessive volumes of water or ~~it~~ it should or to otherwise prevent otherwise appear necessary to prevent waste.