

CASE 7113: FRED POOL, JR. FOR A DUAL
COMPLETION, CHAVES COUNTY, NEW MEXICO

Case No.

7113

Application

Transcripts

Small Exhibits

ETC

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

EXAMINER HEARING

IN THE MATTER OF:

Application of Fred Pool, Jr., for a
dual completion, Chaves County, New
Mexico.

CASE
7113

BEFORE: Daniel S. Nutter

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:

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

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I N D E X

FRED POOL, JR.

Direct Examination by Mr. Kellahin 3

Cross Examination by Mr. Nutter 11

E X H I B I T S

Applicant Exhibit One, Packet 5

1
2 MR. NUTTER: We'll call next Case Number
3 7113.

4 MR. PADILLA: Application of Fred Pool,
5 Jr., for a dual completion, Chaves County, New Mexico.

6 MR. KELLAHIN: I'm Tom Kellahin of Santa
7 Fe, New Mexico, appearing on behalf of the applicant, and I
8 have one witness.
9

10
11 (Witness sworn.)
12

13 FRED POOL, JR.
14 being called as a witness and being duly sworn upon his oath,
15 testified as follows, to-wit:
16

17
18 DIRECT EXAMINATION

19 BY MR. KELLAHIN:

20 Q Mr. Pool, would you please state your
21 name and occupation?

22 A Fred Pool, Jr., oil producer.

23 Q Mr. Pool, have you previously testified
24 before the Oil Conservation Division?
25

26 A Yes, sir.

27 Q And you are an independent oil and gas
28 operator?

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2

A. Yes, sir.

3

Q. How long have you been in business?

4

A. 32 years.

5

Q. How many wells do you operate in the

6

State of New Mexico?

7

8

A. Approximately 30 San Andres wells and

9

3 -- 4 gas wells, 4 of these Abo wells.

10

Q. As a practical oil and gas operator, Mr.

11

Pool, do you drill wells for other operators?

12

A. Yes, sir.

13

Q. How many rigs do you own?

14

A. Two.

15

Q. Would you approximate for us the number

16

of wells you've drilled for other operators?

17

18

A. Well, over 30 years several hundred. I

19

don't know the exact number. The last two years I've drilled

20

about sixty or sixty five wells.

21

Q. All right, sir, and this well you're

22

seeking approval of the dual completion, this is your well

23

that you operate?

24

A. Yes, sir.

25

Q. And are you familiar with the facts and

26

circumstances surrounding this particular application?

27

28

A. Yes, sir.

1
2 MR. KELLAHIN: We tender Mr. Pool as a
3 practical oil and gas operator.

4 MR. NUTTER: Mr. Pool is so qualified.

5 Q Mr. Pool, would you please turn to the
6 package of exhibits that we've labeled Applicant Exhibit
7 Number One, and if you'll turn, sir, to the Form C-107, which
8 is the second page in the booklet, and identify the informa-
9 tion contained on that form for us.
10

11 A Well, this is an application for multiple
12 completion and there are three sections of Abo perforated
13 and one in the Penn, either Penn or Atoka. It hasn't -- the
14 geologist hasn't identified exactly, but it's generally
15 thought to be the Penn.
16

17 And it's perforated at 4848 to 4854,
18 and the Abo section is in three intervals from 3576 to 3796.

19 Q This is a gas/gas dual?

20 A Yes, sir.

21 Q And has this well been drilled?

22 A Yes, sir.

23 Q Is it currently producing from either
24 zone?
25

26 A Yes, sir, from the Penn.

27 Q Okay.

28 MR. NUTTER: Mr. Pool, I think you stated

1
2 the Abo was perforated from 3576 to 3796?

3 A. Yes, sir, in three different small sec-
4 tions.

5 MR. NUTTER: Well, this exhibit in this
6 brochure here indicates 3586. I wonder -- it's been corrected
7 from 76 to 86 with a pen.

8 A. Yes, sir, it probably is 86. There's
9 a 10-foot section in that upper one. This one has been cor-
10 rected, too, I see.

11 MR. NUTTER: So the correct interval
12 there would be from 3576 to 3796, overall.

13 A. 3586.

14 MR. NUTTER: I mean 3586.

15 A. Yes, sir, it would.

16 MR. NUTTER: Yeah, to 3796. Okay.

17 Q. All right, Mr. Pool, let's turn and skip
18 a number of these Commission forms until you get to the
19 acreage and location -- dedication plat, the C-102.

20 All right, sir, will you look at that
21 exhibit and identify for us what acreage is dedicated to the
22 two zones involved?

23 A. The southeast of the southeast is dedi-
24 cated -- a quarter of the section is dedicated to Abo, loca-
25 tion is 1980 from the east, 1980 from the south, and the
26
27
28

1
2 east half of the Section 13 is dedicated to the Penn.

3 Q You said the southeast of the southeast?

4 A The southeast quarter of the section,
5 excuse me.

6 Q All right.

7 A To the Abo.

8 Q All right. All right, sir, if you'll
9 continue to turn pages till we get to the first fold-out
10 plat. It appears to be a structure map of some kind. Is
11 that a structure map, Mr. Pool?
12

13 A Topographic.

14 Q All right. Simply indicates the topo-
15 graphic condition of the surface?
16

17 A Yes, sir.

18 Q All right, let's skip that for a moment
19 and go to the schematic, which is the second fold-out. Is
20 this the way the well is currently completed?

21 A Yes, sir.

22 Q And how will you produce the Penn forma-
23 tion?

24 A It is producing below the packer. The
25 Otis sliding sleeve is closed and the Penn is producing up
26 through the annulus to the packer and then up the tubing.
27

28 Q The Penn, then, will be produced up

1
2 through the tubing?

3 A. Yes, sir.

4 Q. And the Abo will be produced through the
5 casing-tubing annulus?

6 A. Yes, sir.

7 Q. Do you have any pressure information on
8 either or both of these zones?

9 A. Yes, sir. We took a 4-point test on the
10 well, each zone when it was completed, and the bottom hole
11 pressure on the Penn, shut-in tubing pressure, was 19 --
12 1895 pounds. And on the Abo on the 4-point test it was 957
13 pounds.
14

15 Q. That pressure information is included
16 in the packet of exhibits, is it not?
17

18 A. Yes, sir.

19 Q. This is on Form C-122?

20 A. Yes, sir.

21 Q. Yes, sir, and you're referring to which
22 pressure test?

23 A. The 4-point test tubing, shut-in --

24 Q. On the Abo or the Penn?

25 A. Well, on the Abo and the Penn.

26 Q. All right.

27 A. On tubing data.
28

1
2 Q What is the pressure on the Abo formation
3 at the surface?

4 A 957 pounds.

5 Q All right, sir, and what is the pressure
6 on the Penn formation at the surface?

7 A Shut-in pressure is 1895 pounds.

8 Q What evidence or indication do you have
9 that your packer is adequately set in the well and that there
10 is not communication between the two formations?
11

12 A Well, the Abo was shut-in, has been since
13 the Penn has been producing, and it has no change in the
14 pressure on the surface gauge on the Abo. And the Penn is
15 producing at 900 and -- no, 720 pounds on the tubing down from
16 the 19 -- let's see, 1895 that it was shut-in with, but the
17 Abo gauge has never changed any since we've been producing
18 the Penn.
19

20 Q Based upon that information what con-
21 clusion do you reach, Mr. Pool?

22 A I don't think the packer is leaking.
23 It seems to be holding.

24 Q All right, sir.

25 A Exactly.

26 Q Now, as part of the packet of information
27 on the 4-point -- the back pressure test, you've included a
28

1
2 gas analysis of each of the zones?

3 A. Yes, sir.

4 Q. And what do those analyses show you,
5 Mr. Pool?

6 A. There are different gas, specific zones
7 of gas, and different fluid amounts.
8

9 Q. All right, would you indicate for us
10 the types of fluids that are being produced, or will be pro-
11 duced out of the Abo?

12 A. The Abo, other wells in the area, and
13 indications in this well from what tests we've done, will
14 not produce any fluid. It is dry gas, completely dry gas.
15

16 Q. All right, sir, how about the Penn form-
17 ation?

18 A. The Penn makes a slight amount of dis-
19 tillate, and it's very small but it makes a little in the
20 tank through the stack pipe. We haven't produced it long
21 enough to find out just exactly how much it is going to
22 make.

23 Q. Mr. Pool, was the Exhibit Number One
24 and the information contained in Exhibit Number One prepared
25 by you or compiled under your direction and supervision?
26

27 A. Compiled under my direction and super-
28 vision.

1
2 Q And in your opinion, Mr. Pool, will ap-
3 proval of this application be in the best interest of conser-
4 vation, the prevention of waste, and the protection of cor-
5 relative rights?
6

7 A Yes, sir.

8 MR. KELLAHIN: That concludes our exa-
9 mination of Mr. Pool.
10

11 CROSS EXAMINATION

12 BY MR. NUTTER:

13 Q Mr. Pool, do you -- it must be in here
14 in one of these forms -- do you have a potential on each of
15 these two zones?
16

17 A Yes, sir. The -- the 4-point test is
18 all I have, Mr. Nutter. It's shown by two C-122's.

19 Q Okay, and what are those, then?

20 A Absolute open flow on the Penn is 1-1/2
21 million; 1.550, and on the Abo was 1.463 million.

22 Q 1.463?

23 A Yes, sir.

24 Q And you haven't produced any liquids from
25 the Abo at all and none of the wells in this vicinity produce
26 any liquids from the Abo?
27

28 A No, sir, they haven't.

1
2 Q Okay. Now, you do produce some liquids
3 from the Penn but you haven't been able to get a GOR yet on
4 the well, is that it?

5 A No, sir.

6 Q But it is producing through the tubing?

7 A Yes, sir.

8 Q Do you have any idea what the gravity is
9 of the liquids in the Penn?
10

11 A No, sir, I don't. I sure don't.

12 MR. NUTTER: Are there any further
13 questions of Mr. Pool? He may be excused.

14 Do you have anything further, Mr. Kella-
15 hin?
16

17 MR. KELLAHIN: No, sir.

18 MR. NUTTER: Does anyone have anything
19 they wish to offer in Case Number 7113?
20

21 Exhibit Number One will be admitted in
22 evidence and we'll take the case under advisement.
23

24 (Hearing concluded.)
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C E R T I F I C A T E

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.

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 7113, heard by me on 12/30 1980.

Chuan, Examiner
Oil Conservation Division

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
STATE LAND OFFICE BLDG.
SANTA FE, NEW MEXICO
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8 Fe, New Mexico, appearing on behalf of the applicant, and I
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11 (Witness sworn.)
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15 testified as follows, to-wit:
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21 name and occupation?

22 A Fred Pool, Jr., oil producer.

23 Q Mr. Pool, have you previously testified
24 before the Oil Conservation Division?
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26 A Yes, sir.

27 Q And you are an independent oil and gas
28 operator?

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A. Yes, sir.

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Q. How long have you been in business?

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A. 32 years.

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Q. How many wells do you operate in the State of New Mexico?

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A. Approximately 30 San Andres wells and 3 -- 4 gas wells, 4 of these Abo wells.

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Q. As a practical oil and gas operator, Mr. Pool, do you drill wells for other operators?

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A. Yes, sir.

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Q. How many rigs do you own?

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A. Two.

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Q. Would you approximate for us the number of wells you've drilled for other operators?

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A. Well, over 30 years several hundred. I don't know the exact number. The last two years I've drilled about sixty or sixty-five wells.

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Q. All right, sir, and this well you're seeking approval of the dual completion, this is your well that you operate?

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A. Yes, sir.

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Q. And are you familiar with the facts and circumstances surrounding this particular application?

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A. Yes, sir.

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2 MR. KELLAHIN: We tender Mr. Pool as a
3 practical oil and gas operator.

4 MR. NUTTER: Mr. Pool is so qualified.

5 Q Mr. Pool, would you please turn to the
6 package of exhibits that we've labeled Applicant Exhibit
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12 completion and there are three sections of Abo perforated
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15 thought to be the Penn.
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17 And it's perforated at 4848 to 4854,
18 and the Abo section is in three intervals from 3576 to 3796.

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20 A Yes, sir.

21 Q And has this well been drilled?

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24 zone?
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27 Q Okay.

28 MR. NUTTER: Mr. Pool, I think you stated

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the Abo was perforated from 3576 to 3796?

A Yes, sir, in three different small sections.

MR. NUTTER: Well, this exhibit in this brochure here indicates 3586. I wonder -- it's been corrected from 76 to 86 with a pen.

A Yes, sir, it probably is 86. There's a 10-foot section in that upper one. This one has been corrected, too, I see.

MR. NUTTER: So the correct interval there would be from 3576 to 3796, overall.

A 3586.

MR. NUTTER: I mean 3586.

A Yes, sir, it would.

MR. NUTTER: Yeah, to 3796. Okay.

Q All right, Mr. Pool, let's turn and skip a number of these Commission forms until you get to the acreage and location -- dedication plat, the C 102.

All right, sir, will you look at that exhibit and identify for us what acreage is dedicated to the two zones involved?

A The southeast of the southeast is dedicated -- a quarter of the section is dedicated to Abo, location is 1980 from the east, 1980 from the south, and the

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2 east half of the Section 13 is dedicated to the Penn.

3 Q You said the southeast of the southeast?

4 A The southeast quarter of the section,
5 excuse me.

6 Q All right.

7 A To the Abo.

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9 continue to turn pages till we get to the first fold-out
10 plat. It appears to be a structure map of some kind. Is
11 that a structure map, Mr. Pool?
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14 Q All right. Simply indicates the topo-
15 graphic condition of the surface?
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17 A Yes, sir.

18 Q All right, let's skip that for a moment
19 and go to the schematic, which is the second fold-out. Is
20 this the way the well is currently completed?

21 A Yes, sir.

22 Q And how will you produce the Penn forma-
23 tion?
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25 A It is producing below the packer. The
26 Otis sliding sleeve is closed and the Penn is producing up
27 through the annulus to the packer and then up the tubing.

28 Q The Penn, then, will be produced up

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through the tubing?

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A. Yes, sir.

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And the Abo will be produced through the casing-tubing annulus?

6

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7

Yes, sir.

8

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Do you have any pressure information on either or both of these zones?

10

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Yes, sir. We took a 4-point test on the well, each zone when it was completed, and the bottom hole pressure on the Penn, shut-in tubing pressure, was 19 -- 1895 pounds. And on the Abo on the 4-point test it was 957 pounds.

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That pressure information is included in the packet of exhibits, is it not?

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Yes, sir.

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This is on Form C-122?

21

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Yes, sir.

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Yes, sir, and you're referring to which pressure test?

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The 4-point test tubing, shut-in --

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On the Abo or the Penn?

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Well, on the Abo and the Penn.

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All right.

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On tubing data.

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Q What is the pressure on the Abo formation at the surface?

A 957 pounds.

Q All right, sir, and what is the pressure on the Penn formation at the surface?

A Shut-in pressure is 1895 pounds.

Q What evidence or indication do you have that your packer is adequately set in the well and that there is not communication between the two formations?

A Well, the Abo was shut-in, has been since the Penn has been producing, and it has no change in the pressure on the surface gauge on the Abo. And the Penn is producing at 900 and -- no, 720 pounds on the tubing down from the 19 -- let's see, 1895 that it was shut-in with, but the Abo gauge has never changed any since we've been producing the Penn.

Q Based upon that information what conclusion do you reach, Mr. Pool?

A I don't think the packer is leaking. It seems to be holding.

Q All right, sir.

A Exactly.

Q Now, as part of the packet of information on the 4-point -- the back pressure test, you've included a

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2 gas analysis of each of the zones?

3 A Yes, sir.

4 Q And what do those analyses show you,
5 Mr. Pool?
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7 A There are different gas, specific zones
8 of gas, and different fluid amounts.

9 Q All right, would you indicate for us
10 the types of fluids that are being produced, or will be pro-
11 duced out of the Abo?

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13 indications in this well from what tests we've done, will
14 not produce any fluid. It is dry gas, completely dry gas.
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17 ation?

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19 tillate, and it's very small but it makes a little in the
20 tank through the stack pipe. We haven't produced it long
21 enough to find out just exactly how much it is going to
22 make.

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24 and the information contained in Exhibit Number One prepared
25 by you or compiled under your direction and supervision?
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27 A Compiled under my direction and super-
28 vision.

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2 Q And in your opinion, Mr. Pool, will ap-
3 proval of this application be in the best interest of conser-
4 vation, the prevention of waste, and the protection of cor-
5 relative rights?
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7 A Yes, sir.

8 MR. KELLAHIN: That concludes our exa-
9 mination of Mr. Pool.
10

11 CROSS EXAMINATION

12 BY MR. NUTTER:

13 Q Mr. Pool, do you --- it must be in here
14 in one of these forms -- do you have a potential on each of
15 these two zones?
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17 A Yes, sir. The -- the 4-point test is
18 all I have, Mr. Nutter. It's shown by two C-122's.

19 Q Okay, and what are those, then?

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21 million; 1.550, and on the Abo was 1.463 million.

22 Q 1.463?

23 A Yes, sir.

24 Q And you haven't produced any liquids from
25 the Abo at all and none of the wells in this vicinity produce
26 any liquids from the Abo?
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28 A No, sir, they haven't.

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2 Q Okay. Now, you do produce some liquids
3 from the Penn but you haven't been able to get a GOR yet on
4 the well, is that it?

5 A No, sir.

6 Q But it is producing through the tubing?

7 A Yes, sir.

8 Q Do you have any idea what the gravity is
9 of the liquids in the Penn?
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11 A No, sir, I don't. I sure don't.

12 MR. NUTTER: Are there any further
13 questions of Mr. Pool? He may be excused.

14 Do you have anything further, Mr. Kella-
15 hin?
16

17 MR. KELLAHIN: No, sir.

18 MR. NUTTER: Does anyone have anything
19 they wish to offer in Case Number 7113?

20 Exhibit Number One will be admitted in
21 evidence and we'll take the case under advisement.
22

23 (Hearing concluded.)
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C E R T I F I C A T E

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.

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No 7112, heard by me on 12/30 1980.

[Signature], Examiner
Oil Conservation Division

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

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. 7113
Order No. R-6555

APPLICATION OF FRED POOL, JR.
FOR A DUAL COMPLETION, CHAVES
COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on December 30, 1980, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 14th day of January, 1981, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Fred Pool, Jr., seeks authority to complete his Grynberg Com Fed. Well No. 1, located in Unit J of Section 13, Township 6 South, Range 24 East, NMPM, Chaves County, New Mexico, as a dual completion (conventional) to produce gas from the Abo and Pennsylvanian formations with separation of the zones to be achieved by means of a packer set at approximately 4024 feet.

(3) That the mechanics of the proposed dual completion are feasible and in accord with good conservation practices.

(4) That approval of the subject application will prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Fred Pool, Jr., is hereby authorized to complete his Grynberg Com Fed. Well No. 1, located in Unit J

--2--

Case No. 7113

Order No. R-6555

of Section 13, Township 6 South, Range 24 East, NMPM, Chaves County, New Mexico, as a dual completion (conventional) to produce gas from the Abo and Pennsylvanian formations through the casing tubing annulus and the tubing, respectively, with separation of the zones achieved by means of a packer set at approximately 4024 feet.

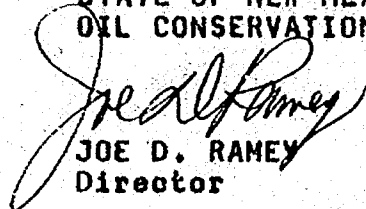
PROVIDED HOWEVER, that the applicant shall complete, operate, and produce said well in accordance with the provisions of Rule 112-A of the Division Rules and Regulations insofar as said rule is not inconsistent with this order;

PROVIDED FURTHER, that the applicant shall take packer leakage tests upon completion and annually thereafter during the Annual Gas Well Shut-In Pressure Test Period for Southeast New Mexico.

(2) 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/

Dockets Nos. 1-81 and 2-81 are tentatively set for January 14 and 28, 1981. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - TUESDAY - DECEMBER 30, 1980

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

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

CASE 7113: Application of Fred Pool, Jr. for a dual completion, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion of his Grynberg Com Fed. Well No. 1 located in Unit J of Section 13, Township 6 South, Range 24 East, to produce gas from the Abo and Pennsylvanian formations.

CASE 7051: (Continued from November 25, 1980, Examiner Hearing)

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

CASE 6940: (Continued from November 25, 1980, Examiner Hearing)

Application of Adobe Oil Company for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests down through the Wolfcamp formation underlying the NW/4 SE/4 for oil and the SE/4 for gas, Section 23, Township 20 South, Range 38 East, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.

CASE 7103: (Continued from December 10, 1980, Examiner Hearing)

Application of E. L. Latham, Jr. for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Wolfcamp thru Pennsylvanian formations underlying the N/2 of Section 7, Township 22 South, Range 26 East, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.

CASE 7114: Application of Yates Petroleum Corporation for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Rio Pecosco "JX" Well No. 2, a Morrow test to be drilled 660 feet from the South and East lines of Section 35, Township 18 South, Range 25 East, the S/2 of said Section 35 to be dedicated to the well.

CASE 7115: Application of Yates Petroleum Corporation for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of a Morrow test well to be drilled 660 feet from the South and East lines of Section 14, Township 17 South, Range 26 East, the S/2 of said Section 14 to be dedicated to the well.

CASE 7116: Application of Southland Royalty Company for designation of a tight formation, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks the designation of the Dakota formation underlying portions of Townships 31 and 32 North, Ranges 10, 11, 12, and 13 West, containing 93,860 acres, more or less, as a tight formation pursuant to Section 107 of the Natural Gas Policy Act and 18 CFR Section 271.701-705.

FRED POOL DRILLING, INC.

Box 1300, Clovis Star Route
Roswell, New Mexico 88201

Dec. 29, 1980

CASE # 7113

FRED POOL DRILLING, Inc.

Multiple Completion

ABO

and

PERMO PENN Formations

RECEIVED	DATE
Fred Pool Drilling	1
7113	

Dockets Nos. 1-81 and 2-81 are tentatively set for January 14 and 28, 1981. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - TUESDAY - DECEMBER 30, 1980

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

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

- CASE 7113: Application of Fred Pool, Jr. for a dual completion, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion of his Grynberg Coa Fed. Well No. 1 located in Unit J of Section 13, Township 6 South, Range 24 East, to produce gas from the Abo and Pennsylvanian formations.
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Application of Petro Lewis Corporation for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Blinberry and Drinkard production in the wellbore of its L. G. Wallick "B" Well No. 2 located in Unit G of Section 19, Township 21 South, Range 37 East.
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Application of Adobe Oil Company for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests down through the Wolfcamp formation underlying the NW/4 SE/4 for oil and the SE/4 for gas, Section 23, Township 20 South, Range 38 East, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.
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- CASE 7114: Application of Yates Petroleum Corporation for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Rio Penasco "JX" Well No. 2, a Morrow test to be drilled 660 feet from the South and East lines of Section 35, Township 18 South, Range 25 East, the S/2 of said Section 35 to be dedicated to the well.
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- CASE 7116: Application of Southland Royalty Company for designation of a tight formation, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks the designation of the Dakota formation underlying portions of Townships 31 and 32 North, Ranges 10, 11, 12, and 13 West, containing 93,860 acres, more or less, as a tight formation pursuant to Section 107 of the Natural Gas Policy Act and 18 CFR Section 271.701-705.

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

Form C-107
5-1-61

Operator Fred Pool Jr.		County Chaves		Date 11-18-80
Address Box 1300 Clovis Star Rt. Roswell		Lease Grynberg Com Fed		Well No. #1
Location of Well J	Unit 13	Township 6s	Range 24e	

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	Abo		Pann
b. Top and Bottom of Pay Section (Perforations)	3586' - 3596' 3697' - 3707' 3778' - 3796'		4848' - 4854'
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 | 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. |
| ☒ | ☐ | 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. |
| ☒ | ☐ | 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.* |
| ☒ | ☐ | 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 112-4.) |

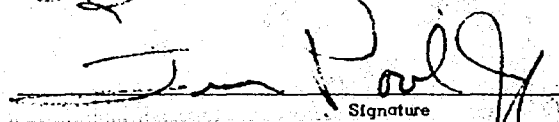
5. List all offset operators to the lease on which this well is located together with their correct mailing address.

Jack Grynberg 1050 17th Street Suite 1950 Denver, Colorado 80265

RECEIVED EXAMINER MUTTER
OIL CONSERVATION DIVISION
EXHIBIT NO. _____
CASE NO. _____

6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES X NO _____. If answer is yes, give date of such notification 11-18-80.

CERTIFICATE: I, the undersigned, state that I am the President of the Fred Pool Drilling Co. (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.


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.

MULTIPLE COMPLETION
(CONVENTIONAL)

P.1

Grynberg Com Federal #1
T6s R24e Sec. 13
1980 FEL 1980 FSL
Chaves County, New Mexico

- 1) Said well is to be completed as a gas-gas and the hydrocarbons from each of the zones can be safely and efficiently produced through one string of tubing and one string of casing.
- 2) The packer used to segregate the separate zones of multiple completion will be a Baker Lockset Packer and shall effectively prevent communication between the two producing zones.
- 3) The two producing zones are the ABO and Penn respectively.
- 4) Form C-107 attached hereto.
- 5) For administrative approval;

- | | |
|--------------|---|
| <u> x </u> | a) Diagramatic sketch of the Multiple completion; |
| <u> x </u> | 1) Showing all casing strings |
| <u> x </u> | 2) Diameters and setting depths |
| <u> x </u> | 3) Centralizers and/or turbolizers and location thereof |
| <u> x </u> | 4) Quantities used and top of cement |
| <u> x </u> | 5) Perforated intervals |
| <u> x </u> | 6) Tubing strings, including diameters and setting depth |
| <u> x </u> | 7) Location of packers |
| <u> x </u> | 8) Sleeves |
| <u> x </u> | b) Plat showing the location of all wells on applicants lease |
| <u> x </u> | 1) All offset wells on offset leases |
| <u> x </u> | 2) The names and addresses of operators of leases |
| <u> x </u> | 3) Evidence that said offset operators have been furnished with copies of the application |

MULTIPLE COMPLETION
(CONVENTIONAL)

P.2

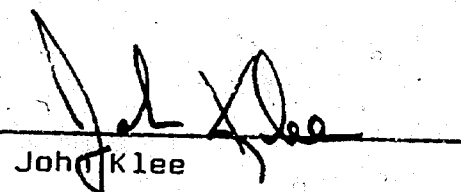
Grynberg Com Federal #1
T6s R24e Sec. 13
1980 FEL 1980 FSL
Chaves County, New Mexico

- x 4) Electrical log of the well or other acceptable log
with tops and bottoms of producing zones and
intervals of perforations indicated thereon.
- x c) Logs
 - x 1) Computer processed log.
 - x 2) Perforating depth control
 - x 3) Casing collar log and perforating record
 - x 4) Dual Laterolog Micro-SFL
- x d) Drilling status reports
 - x 1) Well completion reports

AFFIDAVIT OF MAILING OR DELIVERY

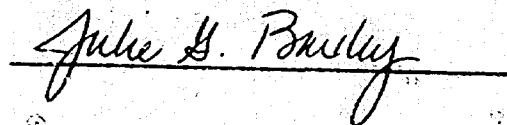
Application for Multiple Completion
Grynberg Com Federal #1
Sec. 13 T6s R24e
Chaves County, New Mexico

I hereby certify that I have this day mailed a copy of Form C-107
to Jack Grynberg, lease holder of lease No. 11795 Sec.12 T6s R24e
north offset to captioned well.


John Klee

STATE OF NEW MEXICO
COUNTY OF CHAVES

The foregoing instrument was acknowledged before me this 19th
day of November, 1980, by John Klee.


Julie S. Barclay

My commission expires

Oct. 15, 1984

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE*
(Other instructions on
reverse side)Form approved,
Budget Bureau No. 42-B1425

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☐GAS
WELL ☒OTHER ☐SINGLE
ZONE ☒MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Fred Pool Drilling Company

3. ADDRESS OF OPERATOR

409 White Building, Roswell, New Mexico 88201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

1980' FSL & 1920' FEL of Sec. 13

At proposed prod. zone

Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

27 air miles north-northeast of Roswell, N. M.

10. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY ON LEASE LINE, FT.
(Also to nearest drig. unit line, if any)

660'

16. NO. OF ACRES IN LEASE

2360

17. NO. OF ACRES ASSIGNED
TO THIS WELL

320

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

N.A.

19. PROPOSED DEPTH

5500 Granite Wash

20. ROTARY OR CABLE TOOLS

Rotary

21. ESTIMATIONS (Show whether DP, RT, GR, etc.)

3898 G.L.

22. APPROX. DATE WORK WILL START*

April 15, 1980

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
7 1/2"	13 3/8"	48#	400' +/-	Circ.
12 1/4" or 12"	8 5/8"	24#	1500' +/-	Circ.
7 7/8"	4 1/2"	10.5#	TD	1000' above pay

Selectively perforate and treat pay zone.

Gas is not dedicated to a pipeline.

Attached are: Survey Plat (C-102)

Supplemental Drilling Data

Surface Use Plan

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

Fred Pool, Jr.

TITLE

Owner

DATE 4-1-80

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

WELL LOCATION AND ACREAGE DEDICATION PLAT

Supersedes C-128
Effective 1-1-65

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

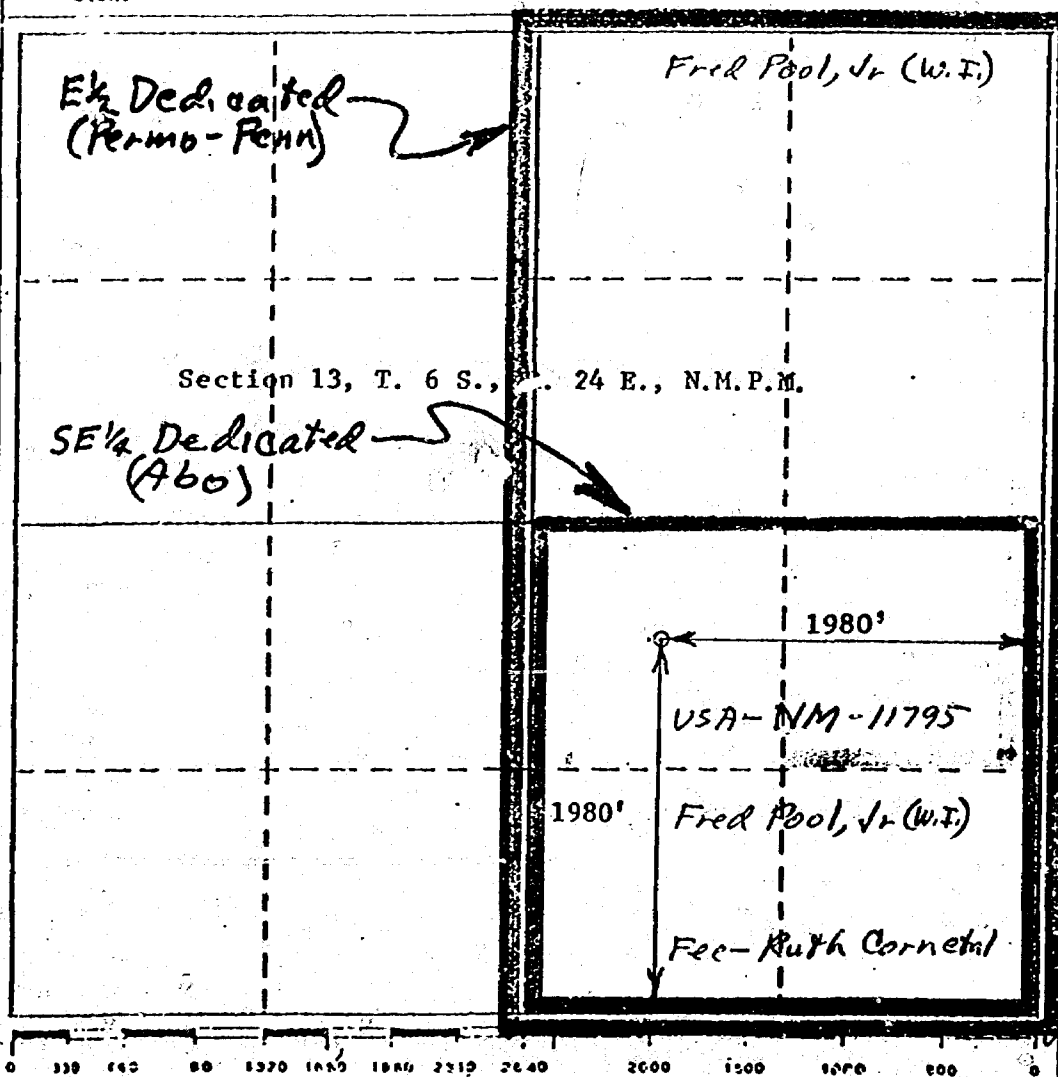
Operator Fred Pool Drlg. Co.		Lease Gr. nborg. Federal		Well No. 1
Unit Letter J	Section 13	Township 6S	Range 24E	County Chaves
Actual Footage Location of Well 1980 feet from the East line and 1980 feet from the South line				
Ground Level Elev. 3896.0	Producing Formation Penn	Pool Wildcat	Dedicated Acreage 160 Abo 320 PennoPenn Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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 Communitization

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.

Fred Pool, Jr.

Name
Owner

Position
Fred Pool Drlg. Co.

Company
March 26, 1980

Date

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

March 22, 1980

Date Surveyed
John D. Jaquess, P.E. & L.S.

Registered Professional Engineer
and/or Land Surveyor

John D. Jaquess

Certificate No.

6290

OPERATOR'S COPY
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPPLICATE
(Other instructions on re-
verse side)Form approved.
Budget Bureau No. 42-B1424
5. LEASE DESIGNATION AND SERIAL NO.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
(Use "APPLICATION FOR PERMIT" for such proposals.)

1. ☐ OIL WELL ☐ GAS WELL ☒ OTHER	7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR Fred Pool Drilling Company	8. FARM OR LEASE NAME Grynberg-Com Federal
3. ADDRESS OF OPERATOR 409 White Bldg., Roswell, New Mexico 88201	9. WELL NO. 1
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1980' FSL & 1980 FFL of Sec. 13	10. FIELD AND POOL, OR WILDCAT Wildcat
11. PERMIT NO.	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 13-6S-24E
12. ELEVATIONS (Show whether 10, 40, or, etc.) 3898 G.L.	12. COUNTY OR PARISH Chaves
	13. STATE N. M.

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	☐	WATER SHUT-OFF	☐
FRAC TURE TREAT	☐	FRAC TURE TREATMENT	☐
SHOOT OR ACIDIZE	☐	SHOOTING OR ACIDIZING	☐
REPAIR WELL	☐	(Other)	☐
OTHER	☐	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE TO BE DRILLED 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.)

The rotary rig, which was scheduled to drill this well, has been delayed with a fishing job on another well; and as we plan to be drilling over May 31, 1980, the lease expiration date, it may be necessary, that we drill with a cable tool rig until the rotary rig becomes available.

Anticipated spud date is May 28, 1980.

RECEIVED

MAY 21 1980

U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

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

SIGNED James A. Knaut (This space for Federal or State office use)	TITLE Agent	DATE May 19, 1980
APPROVED BY	TITLE	DATE MAY 21 1980
CONDITIONS OF APPROVAL, IF ANY:		

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPPLICATE
(Other instructions on re-
verse side)Form approved.
Budget Bureau No. 42-R1424.

LEASE DESIGNATION AND SERIAL NO.

N.M. 41795

IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT" for such proposals.)

RECEIVED

OIL WELL ☐ GAS WELL ☒ OTHER ☐

2. NAME OF OPERATOR

Fred Pool Drilling Co.

JUN 6 1980

3. ADDRESS OF OPERATOR

409 White Bldg. Roswell, N.M. 80501
U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)

At surface

1980' FSL & 1980 FEL of sec. 13

11. PERMIT NO.

12. ELEVATIONS (Show whether OF, HT, OR, etc.)

3878 G.L.

12. COUNTY OR PARISH 13. STATE

Chaves N.M.

10

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)

FILL 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*

Surface casing

(Note: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (If test, 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 per-
tinent to this work.)

June 3, 1980

Run 305 feet of 13 3/8" surface casing 48# B&S 8rd ST&C
Cemented with 150 sx Class C Cement

Cement circulated.

Plugged down 2:00 p.m.

W.D.C. 6-4-80 and 6-5-80

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

SIGNED

Peter Jones

TITLE

Secretary

DATE 6-5-80

(This space for Federal or State office use)

ACTING DISTRICT ENGINEER

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE JUN 06 1980

*See Instructions on Reverse Side

Form 9-331
(May 1983)UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPlicate
(Other instructions on re-
verse side)Form approved.
Budget Bureau No. 42-R1424
5. LEASE DESIGNATION AND SERIAL NO.

N.M. 11795

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Grynberg-Comm Federal

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Und. Wildcat

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

13-6S-24E

12. COUNTY OR PARISH

Chaves

13. STATE

N.M.

SUNDY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.)
Use "APPLICATION FOR PERMIT" for such proposals.1. OIL WELL ☒ GAS WELL ☒ OTHER ☐

2. NAME OF OPERATOR

Fred Pool Drilling Co.

3. ADDRESS OF OPERATOR

437 White Bldg. Roswell, N.M. 88201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
See also space 17 below.)
At surface1980 FSL ; 1980 FEL of Sec. 13-6S-24E
Chaves County, N.M.

14. PERMIT NO.

194

15. ELEVATIONS (Show whether DF, AT, OR, etc.)

3898.0L

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)

PULL 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*

intermediate casing 8 5/8

(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.)

June 8, 1980

Set 1449 Ft. new 24" 8 5/8 casing. Cemented with 550 sx cement;
(450 Halliburton Lite, 10" sx Class C). Cemented/circulated. Plug
down at 9: a.m.

W O C 24hrs. Tested E O P and casing to 500# for 30 minutes.

No pressure drop.

Started drilling at 2 p.m. July 9, 1980

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

SIGNED

Patti Jones

TITLE

Secretary

DATE 7-11, 1980

(This space for Federal or State office use)

APPROVED BY (SIC 334) PETER W. CHESTER
CONDITIONS OF APPROVAL, IF ANY:

TITLE ACTING DISTRICT ENGINEER

DATE JUL 12 1980

*See Instructions on Reverse Side

OPERATOR'S COPY
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPPLICATE
(Other instructions on reverse side)Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

11795

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Rynberg-Com Federal

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Und. wildcat

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

13-6-24E

12. COUNTY OR PARISH 13. STATE

Chaves

N.M.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT" for such proposals.)

OIL WELL ☐ GAS WELL ☒ OTHER ☐

2. NAME OF OPERATOR

Fred Pool Drilling Co.

3. ADDRESS OF OPERATOR

457 White Bldg. Roswell, N.M. 88201

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

13-6-24E 13-6-24E
Chaves County, N.M.

14. PERMIT NO.

15. OPERATIONS (Show whether DE, RT, OR, etc.)

16

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

STOP OR ACIDIZE

PLUG WELL

(Other)

FILL OR ALTER CASING

MULTIPLE COMPLETION

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) 1 1/2" casing

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(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.)

13-6-24E 13-6-24E 1 1/2" casing

cased with 425 ex Class 2 and 425 ex PEZ mix.

and 1 bspk. well to 350 ex.

on top of 2600 ft by caprock survey.

Plug down 5:27 p.m. July 21, 1980

Circulation 25005 ft.

Total test 4591 ft.

Intend to Perforate and Acidize.

RECEIVED

JUL 24 1980

U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

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

SIGNED

[Signature]

TITLE

Secretary

DATE

7-23,- 80

(This space for Federal or State office use)

APPROVED BY

(948-524) PETER W. CHESTER

TITLE

ARTESIA DISTRICT ENGINEER

DATE

JUL 25 1980

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPPLICATE*
(Other instructions on re-
verse side)Form approved.
Budget Bureau No. 42-R1424.
5. LEASE DENOMINATION AND SERIAL NO.

1.1. 11795

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Crynberg-Cam Fed.

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Und. wildcat

11. SEC., T., R., M., OR B.L. AND
SURVEY OR AREA

13-63-24E

12. COUNTY OR PARISH

Chaves

13. STATE

N.M.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT" for such proposals.)

1. ☐ OIL WELL ☐ GAS WELL ☒ OTHER	2. NAME OF OPERATOR Fred Pool Drilling Co.
3. ADDRESS OF OPERATOR 437 White Bldg. Roswell, N.M. 88201	4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1030 EBL, 1080 EBL of T. 13-63-24E Chaves County, N.M.
14. PERMIT NO. 104	15. ELEVATIONS (Show whether DE, RT, OR, etc.) 3110. 04

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)

FILL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) XXXXXX Acid Report

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

X

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.)

Drilled from 4343-48 - 13 holes - 2 per foot.
Acidized with 1600 gal. (500 15% HCL and 1000 gal mud acid)
Mud acid = 3% * 12% HCL

1000 gal. 5% H2.

Drilled 3/8" at 4084 with ABC Packer

Used Sulco variable choke.

Cleaned up and prepare to test well with 4 point test!

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

SIGNED

TITLE Secretary

DATE 8/18/80

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

ACCEPTED FOR RECORD

DATE

*See Instructions on Reverse Side

AUG 25 1980
K-E. Sales
U.S. GEOLOGICAL SURVEY
ROSWELL, NEW MEXICO

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other in-
structions on
reverse side)Form approved.
Budget Bureau No. 42-R355.6.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other _____		5. LEASE DESIGNATION AND SERIAL NO. N.L. 11725	
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. REVR. ☐ Other _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME _____	
2. NAME OF OPERATOR Fred Pool Drilling Co.		7. UNIT AGREEMENT NAME _____	
3. ADDRESS OF OPERATOR Box 1300 Clovis Star Rt., Roswell, N.M. 88201		8. FARM OR LEASE NAME Grynberg-Com Federal	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 1980 FSL, 1980 FFL, of Sec. 13-65-24E At top prod. interval reported below 4755 ft. At total depth 5035 ft.		9. WELL NO. 1	
14. PERMIT NO. 194		DATE ISSUED 4-2-80	
15. DATE SPUDDED 5/28/80		16. DATE T.D. REACHED 7/20/80	
17. DATE COMPL. (Ready to prod.) 8/25/80		18. ELEVATIONS (OF, REB, XT, OR, ETC.)* 3898, 63	
19. ELEV. CASINGHEAD 3898		20. TOTAL DEPTH, MD & TVD 5035 ft.	
21. PLUG, BACK Y.D., MD & TVD 4984 ft.		22. IF MULTIPLE COMPL., HOW MANY* 1	
23. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 4848-4854 Penn		24. INTERVALS DRILLED BY XX	
25. WAS DIRECTIONAL SURVEY MADE Yes		26. COUNTY OR PARISH Chaves	
27. WAS WELL CORED no		13. STATE N.M.	
28. TYPE ELECTRIC AND OTHER LOGS RUN Dual Laterolog, Micro-SFL, Perforating Depth Control			
29. CASING RECORD (Report all strings set in well)			
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE
13 5/8	18.7	305 ft.	17"
8 5/8	24	140 ft.	11"
1 1/2	10.7	3035 ft.	7 7/8
CEMENTING RECORD			
150 sx Class C			
450 Halliburton Lite			
100 Class C			
425 Class C, 425 PCZ			
AMOUNT PULLED Circulated			
30. TUBING RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	PACKER SET (MD)
2 3/8			4804
31. PERFORATION RECORD (Interval, size and number) 4848-4854 13 Holes 2 per ft.			
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
DEPTH INTERVAL (MD)			
4848-4854v 1600 Gal. (600 gal 15% HCL, 1000mod Acid)			
33. PRODUCTION DATE FIRST PRODUCTION 8/19/80 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing WELL STATUS (Producing or shut-in) Shut-In			
DATE OF TEST 8/19/80	HOURS TESTED 72	CHOKE SIZE	PROD'N. FOR TEST PERIOD
FLOW. TUBING PRESS.	CASING PRESSURE Packer	CALCULATED 24-HOUR RATE	OIL—BBL. 0
			GAS—MCF. 500
			WATER—BBL. 0
			OIL GRAVITY-API (CORR.) OK
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TEST WITNESSED BY Fred Pool, III			
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 <u>Patricia L. Jones</u> TITLE <u>Secretary</u> DATE <u>8/9/80</u>			

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-31421.
LEASE DESIGNATION AND SERIAL NO.
NM 11795
G. INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT" for such proposals.)

1. ☐ OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR
Fred Pool Drilling Co.

3. ADDRESS OF OPERATOR
Box 1300 Clovis Star Rt. Roswell, N.M. 80201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface
1980 FSL 1980 FEL; Sec. 13-5, S-21E

14. PERMIT NO.
21

15. ELEVATIONS (Show whether DT, RT, GR, etc.)
3870.0 ft

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Rumberg Com Federal

9. WELL NO.
1

10. FIELD AND TOOL, OR WILDCAT
Und Wildcat

11. SEC., T., R., M., OR BLK AND SURVEY OR AREA
13-5-21E

12. COUNTY OR PARISH
Chaves

13. STATE
N.M.

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

NOTICE OF INTENTION TO		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	☐	WATER SHUT-OFF	☐
FRACTURE TREAT	☐	FRACTURE TREATMENT	☐
SHOOT OR ACIDIZE	☐	SHOOTING OR ACIDIZING	☒
REPAIR WELL	☐	REPAIRING WELL	☐
(Other)	☐	ALTERING CASING	☐
		ABANDONMENT	☐

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.)

Sept. 23, 1980:

Perforated 3778 - 83 6 shots 1/ft
3786 - 90 5 shots 1/ft
3792-96 5 shots 1/ft

Acidized with 2500 gallons 12% HCL/3% HF with 1000 SCF/bbl N2. Flowed well back. Intend to frac well.

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

SIGNED Berta Pool TITLE Secretary

DATE 9-27-80

(This space for Federal or State office use)

APPROVED BY
CONDITIONS OF APPROVAL, IF ANY:

TITLE

ACCEPTED FOR RECORD

DATE

Please advise as to results of this work.

*See Instructions on Reverse Side

OCT 8 1980
U.S. GEOLOGICAL SURVEY
ROSWELL, NEW MEXICO

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir
Use "APPLICATION FOR PERMIT" for such proposals.)

1. ☐ OIL WELL ☒ GAS WELL ☐ OTHER

2. NAME OF OPERATOR
Fred Pool Drilling Co.

3. ADDRESS OF OPERATOR
1300 Clovis Star Rt. Roswell, N.M. 88201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
Not also on 17 below.)
**1980 FSL, 1980 FEL of Sec. 13-65-24E
Chaves County, N.M.**

14. PERMIT NO. **194** 15. ELEVATION (SL or whether DE, RL, or, etc.) **3898.6L**

6. LEASE DESIGNATION AND SERIAL NO.
N.M. 11795

7. UNIT OR FIELD NO.
Grynberg-Con. Fed.

8. TYPE OF LEASE
#1

9. WELL NO.
Und. Wildcat

10. FIELD AND COUNTY
13-65-24E

11. SEC., T., R., or other loc. and SURVEY OR ACQ.
Chaves N.M.

12. COUNTY OR PART OF IT, STATE

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	PULL OR ALTER CASING	WATER SHUT-OFF	SUBSEQUENT REPORT OF:
FRACTURE TREAT	MULTIPLE COMPLETE	FRACTURE TREATMENT	REPAIRING WELL
SHOOT OR ACIDIZE	ABANDON	SHOOTING OR ACIDIZING	ALTER NO. CASING
REPAIR WELL	CHANGE PLANS	(Other)	ABANDON WELL
(Other)			

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 fractionally drilled, give subsurface locations and measured and true vertical depths for all wells, and zones perforated by this work.)

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

9-29-80 Set retrievable bridge-plug at 3965
Perforated at 3778-3795 - 16 holes - 1 per ft.
Acidized with 2500 gallons MDR 123.

9-30-80 Used 50,000 gallons foam frac Used 53,000 lbs.
20/40 sand. Pumped in 168bbl/min down tubing and
annulus at 3200 lbs./min.
Opened up to flow back load.

RECEIVED

OCT 10 1980

**U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO**

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

SIGNED Perry H. L. N. M. TITLE Secretary

DATE 10-9-1980

(This space for Federal or State use)

APPROVED BY P. Chester
CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

OCT 15 1980

**U.S. GEOLOGICAL SURVEY
ROSWELL, NEW MEXICO**

Instructions on Reverse Side

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT" for such proposals.)

1. ☐ OIL WELL ☐ GAS WELL ☒ OTHER		5. LEASE DESIGNATION AND SERIAL NO. N M 11795	
2. NAME OF OPERATOR Fred Poll Drilling Co.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR Box 1300 Clovis Star Rt. Roswell, N. M. 88201		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1980 FSL, 1980 FEL of Sec. 13 - 6s - 24e		8. FARM OR LEASE NAME Grynberg Com Fed.	
14. PERMIT NO. 101		9. WELL NO. 71	
15. ELEVATIONS (Show whether DF, RT, OR, etc.) 3898 GL		10. FIELD AND POOL, OR WILDCAT Und. Wildcat	
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data		11. SEC. T., R., M., OR BLM. AND SURVEY OR AREA 13-6s-24e	
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.)		12. COUNTY OR PARISH Dhaves	
		13. STATE NM	

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETION	☐	FRACTURE TREATMENT	☒	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)	☐		
(Other)	☐						

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

10-24-80 Set retrievable bridge-plug at 3800 ft.
Perforated at 3586-3596 and 3697-3702 10 Holes 1/min.
Used 60,000 gallons foam frac. Used 70,000 lbs. 20/40 sand. total fluid 354 bbls. 20 ball sealers.

10-30-80 Retrieved bridge plug. Set Baker locker set packer at 4024 ft/, Otis sliding sleeve at 3994 ft. Prepared to connect to gas line when line is ready.

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

SIGNED

Penny Pool Martin

TITLE Secretary

DATE 10-27-80

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

*See Instructions on Reverse Side

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other ☐				7. UNIT AGREEMENT NAME			
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DISC. RESVR. ☐ Other ☐				8. FARM OR LEASE NAME			
2. NAME OF OPERATOR Fred Pool Drilling Co.				Grynberg-Com Federal			
3. ADDRESS OF OPERATOR Box 1300 Clovis Star Rt. Roswell, N.M. 88201				9. WELL NO. 1			
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 1980 F3L, 1980 FEL, of Sec. 13-6S-24E At top prod. interval reported below 4355 ft. At total depth 5035 ft.				10. FIELD AND POOL, OR WILDCAT Und. Wildcat			
14. PERMIT NO. 194				DATE ISSUED 4-2-80		11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec. 13-6S-24E	
15. DATE SPUNDED 5/28/80				16. DATE T.D. REACHED 7/20/80		12. COUNTY OR PARISH Chaves	
17. DATE COMPL. (Ready to prod.) 8/25/80				18. ELEVATIONS (DT, AKB, RT, CR, ETC.)* 3898 GR		13. STATE N.M.	
20. TOTAL DEPTH, MD & TVD 5035 ft.		21. PLUG, BACK T.D., MD & TVD 4984 ft.		22. IF MULTIPLE COMPL., HOW MANY*		19. ELEV. CASINGHEAD 3898	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)* 4848-4854 Penn at present						25. WAS DIRECTIONAL SURVEY MADE Yes	
26. TYPE ELECTRIC AND OTHER LOGS RUN Dual Laterolog Micro-SFL, Perforating Depth Control						27. WAS WELL CORED no	
28. CASING RECORD (Report all strings set in well)							
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD		AMOUNT POLLED	
13 3/8	48 1/2	305 ft.	17"	150 sx Class C		Circulated	
8 5/8"	24 1/2	1449 ft.	11"	450 Halliburton Lite			
				100 Class C		"	
4 1/2	10.5	5035 ft.	7 7/8	425 Class C, 425 POZ		"	
29. LINER RECORD							
SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT*	SCREEN (MD)	TUBING RECORD		
					SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 3/8	4804	4804
31. PERFORATION RECORD (Interval, size and number) 4848-4854 13 Holes 2 per ft.				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. 4848-4854 1500 Gal. 1600 gal. 15% HCL, 1000 mud Acid			
33. PRODUCTION RECORD 1.55 mcf gas no water at present DATE FIRST PRODUCTION: 8/19/80 PRODUCTION METHOD (Flowing, gas lift, pumping, etc. and type of pump): Flowing WELL STATUS (Producing, Shut-In, etc.): Shut-In							
DATE OF TEST 8/19/80	HOURS TESTED 72	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL--BBL. 1500	GAS--MCF. 1500	WATER--BBL.	GAS--BBL.
FLOW. TUBING PRESS.	CASING PRESSURE Packer	CALCULATED 24-HOUR RATE	OIL--BBL. (24 HRS) 0	GAS--MCF. (24 HRS) 0	WATER--BBL. (24 HRS) 0	OIL--BBL. (24 HRS) 0	GAS--BBL. (24 HRS) 0
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)							
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: [Signature] TITLE: Secretary DATE: 8/25/80							

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

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

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws 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. See instructions on Items 22 and 24; and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see Item 35.

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 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in Item 22, and in Item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in Item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for Items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

38.

GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
San Andres	275	1289				
Glorietta	1290	2824				
Trubb	2825	3387				
Abbo	3388	4126				
Salinas	4127	4355				
Permian	4355	4970				
PreCambria	4970					

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUBMIT IN DUPLICATE*

(See other In-
structions on
reverse side)

Form approved, _____
Bureau No. 42-B3553.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL OIL WELL ☐ GAS WELL ☒ DRY ☐ Other _____		5. LEASE DESIGNATION AND SERIAL NO. NE 11795	
b. TYPE OF COMPLETION: NEW WELL ☒ WORK DATE ☐ DEEP ☐ PLUG BACK ☐ REPAIR ☐ OTHER _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME _____	
7. NAME OF OPERATOR Fred Pool Drilling Co.		7. UNIT AGREEMENT NAME _____	
8. ADDRESS OF OPERATOR Box 1300 Clovis, New Mex. 88201		8. FARM OR LEASE NAME Crynbern Com Fed.	
9. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 1380 FSL, 1080 FSL of Sec. 13-6s-24e		9. WELL NO. #1	
10. FIELD AND POOL, OR WILDCAT Und. Wildcat		11. SEC., T., R., S. OR BLOCK AND SURVEY, OR AREA Sec. 13-6s-24e	
11. PERMIT NO. 111		12. COUNTY OR PARISH Chaves	
13. DATE DRILLED 5-22-80		14. DATE TO BE REACHED 7-20-80	
15. DATE COMPLETION (Ready to prod.) 11-18-80		16. ELEVATIONS (I.P., R.S., HT. GR., ETC.)* 3898 GR	
17. TOTAL DEPTH, MD & TVD 1080 FSL		18. ELEV. CASINGHEAD 3898	
19. PLUG BACK T.D., MD & TVD 1080 FSL		19. INTERVALS DRILLED BY XX	
20. IF MULTIPLE COMPLET. HOW MANY? 1		20. ROTARY TOOLS XX	
21. PRODUCING INTERVAL (I.P.) OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)* 3586-3596 1/ft., 3778-3796 16 holes 1/ft., 3697-3707 1 per ft.		21. CABLE TOOLS XX	
22. TYPE ELECTRIC AND OTHER LOGS RUN Compensated Neutron-Formation Density, Gamma Ray, Micro-FL, Penetrating Depth Control		22. WAS DIRECTIONAL SURVEY MADE yes	
23. WAS WELL CORDED no		23. WAS WELL CORDED no	
24. CASING RECORD (Report all strings set in well)			
24a. Casing Size	24b. Weight, LB./FT.	24c. Depth Set (MD)	24d. Hole Size
12 3/8"	38	305'	12"
8 5/8"	23	1449'	11"
7 7/8"	10.5	5035'	7 7/8"
24e. Cementing Record		24f. Amount Pulled	
150 sx Class C		Circulated	
450 Halliburton Lite			
100 Class C			
425 Class C 425 Poz			
25. LINER RECORD			
25a. Size	25b. Top (MD)	25c. Bottom (MD)	25d. Screen (MD)
2 3/8"			
25e. Tubing Record		25f. Pacer Set (MD)	
2 3/8"	4804	4804	
26. PERFORATION RECORD (Interval, size and number)			
3586-3596 1 per ft.		26. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
3778-3796 16 holes 1 per ft.		26a. Depth Interval (MD)	
3697-3707 1 per ft.		26b. Amount and Kind of Material Used	
		3778-3796 2500 Gals. 12% HCL/3% with 1000 SFC/661 N2	
		3586-3596 1500 gals. 28% HCL	
		3697-3707 1500 gals. 28% HCL	
27. PRODUCTION			
27a. Date First Production		27b. Production Method (Flowing, gas lift, pumping--size and type of pump)	
		Abo Flowing	
27c. Well Status (Producing or shut-in)		27d. Shut-in	
DATE OF TEST		HOURS TESTED	
5-22-80		72	
CHOKE SIZE		PROD'N. FOR TEST PERIOD	
		OIL--BBL. 0	
FLOW. TUBING PRESS.		GAS--MCF. 1.00	
CASING PRESSURE		WATER--BBL. 0	
CALCULATED 24-HOUR RATE		OIL GRAVITY-API (CORR.)	
0		56	
DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)		TEST WITNESSED BY	
		Fred Pool, Jr.	
28. LIST OF ATTACHMENTS			
29. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records			
SIGNED <i>Fred Pool</i>		TITLE Secretary	
		DATE 11-18-80	

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

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws 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. See instructions on Items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary report is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see Item 35.

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 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in Item 22, and in Item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in Item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES.

38. GEOLOGIC MARKERS

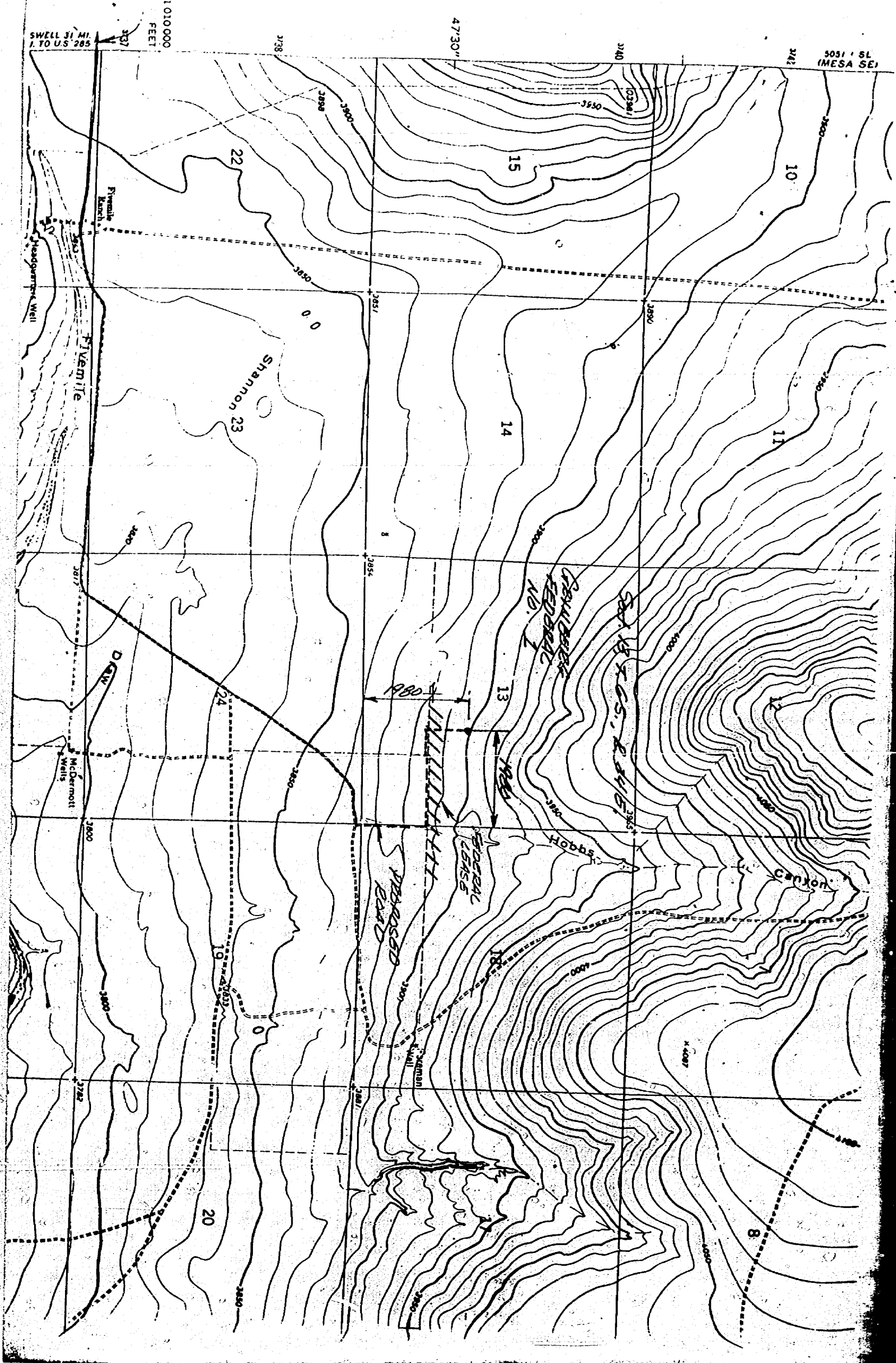
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE CRT. DEPTH
San Andres	205	1289				
Glorietta	1290	2824				
Tubb	2825	3387				
Abo	3387	4126				
Wolfcamp	4127	4354				
Penn	4355	4969				
Precambria	4970	-				

FRED POOL DRILLING, INC.

Suite 437, White Building
Roswell, New Mexico 86201

WELLHEAD DESCRIPTION

<u>Quantity</u>	<u>Type</u>
1	Gulfco - 4 1/2 8rd FE x 6"/3000 G2SA tubing head assy w/2 2" LPO
2	Gulfco - 2 3/8 EUE 8rd 3000# WOG G-2 gate valve.
1	Gulfco - 2 3/8 " EU 8rd run x 2" LPO f/s flow Tee.
1	2" LP inlet x 2" LPO AB-75 3000# adi choke assy.
1	2 3/8" 8rd x 12" lgth N-80 Tubing nipple.
1	2 3/8" EUE 8rd Bull plug tapped 1/2"
1	50# BM 1/2" Cemco needle valve.
1	45# LC 1/2" 3000# ashcroft pressure gauge
1	8 5/8 x 4 1/2 " type 75 Larkin casing head
1	2" xH Bull ring
1	2" B-136-CS-02 WKM ball valve.



50 SX CLASS "C" CEMENT

305' 13 3/8" SURFACE

1449' 8 5/8" CASING

305'

550 SX HILIBURTON LITE CEMENT
TOP OF CEMENT 2600'

5035' 4 1/2" CASING

1449'

3586
3586 PERFORATIONS

3697
3707 PERFORATIONS

4024' 2 3/8" TUBING

425 SX CLASS "C" + 425 POZ MIX

PERFORATIONS

3778'

OTIS WIRELINE
OPERATED SLIDING
SLEEVE

3796'

3994'

BAKER LOCKSET PACKER

4024'

SITP 957 psi
GOR mid liquids
CAOP 1.463
Graw

WELL BORE SKETCH

GRYNBERG COM. FEDERAL
1980 FEL 660' FSL
CHAVES CO. N.M.
SEC. 13 T6S R24E

Penn
SITP 1895 psi

Penn
PERFORATIONS

4848'

4854'

GOR does not know
Graw

PBTD

4984'

CAOP 1.5 million

5035'

GUIDESHOE

[illegible]

Fred -

Grynberg Com
1980 FEL 198
T65 R24e Se
Chaves County

Grynberg Comm. Federal #1
T6s R24e Sec. 13
Chaves County, New Mexico

SYSTEM	SERIES	ROCK UNIT	LITHOLOGY	
PERMIAN	OCHOAN	RUSTLER		
		SALADO		
		TANSILL		
	GUADALUPIAN	YATES		
		SEVEN RIVERS		
		QUEEN		
		GRAYBURG		608'
		SAN ANDRÉS		
		"GLORIETA"		1210'
	LEONARDIAN	UPPER YESO		1280'
		DRINKARD		2826'
		LOWER YESO		3384'
		ABO		4354'
	WOLF CAMPIAN	HUECO		4581'
PENNSYLVANIAN	VIRGILIAN	CISCO		
	MISSOURIAN	CANYON		
	DESMOINESIAN	STRAWN		
	ATOKAN	"ATOKA"		
	MORROWAN	"MORROW"		
MISSISSIPPIAN	CHESTERAN	"CHESTER"		
	MERAMECIAN OSAGIAN KINDERHOOKIAN	MISSISSIPPIAN LIME		
DEVONIAN		WOODFORD		
SILURIAN		"UNDIFFERENTIATED SILURIAN"		
ORDOVICIAN		MONTOKA		
		SIMPSON		
		ELLENBURGER		
PRECAMBRIAN		UNNAMED		

Grynberg Comm Federal #1
T6s R24e Sec. 13
Chaves County, NEW MEXICO

**GENERALIZED
STRATIGRAPHIC SECTION**



BENNETT WIRE LINE SERVICE

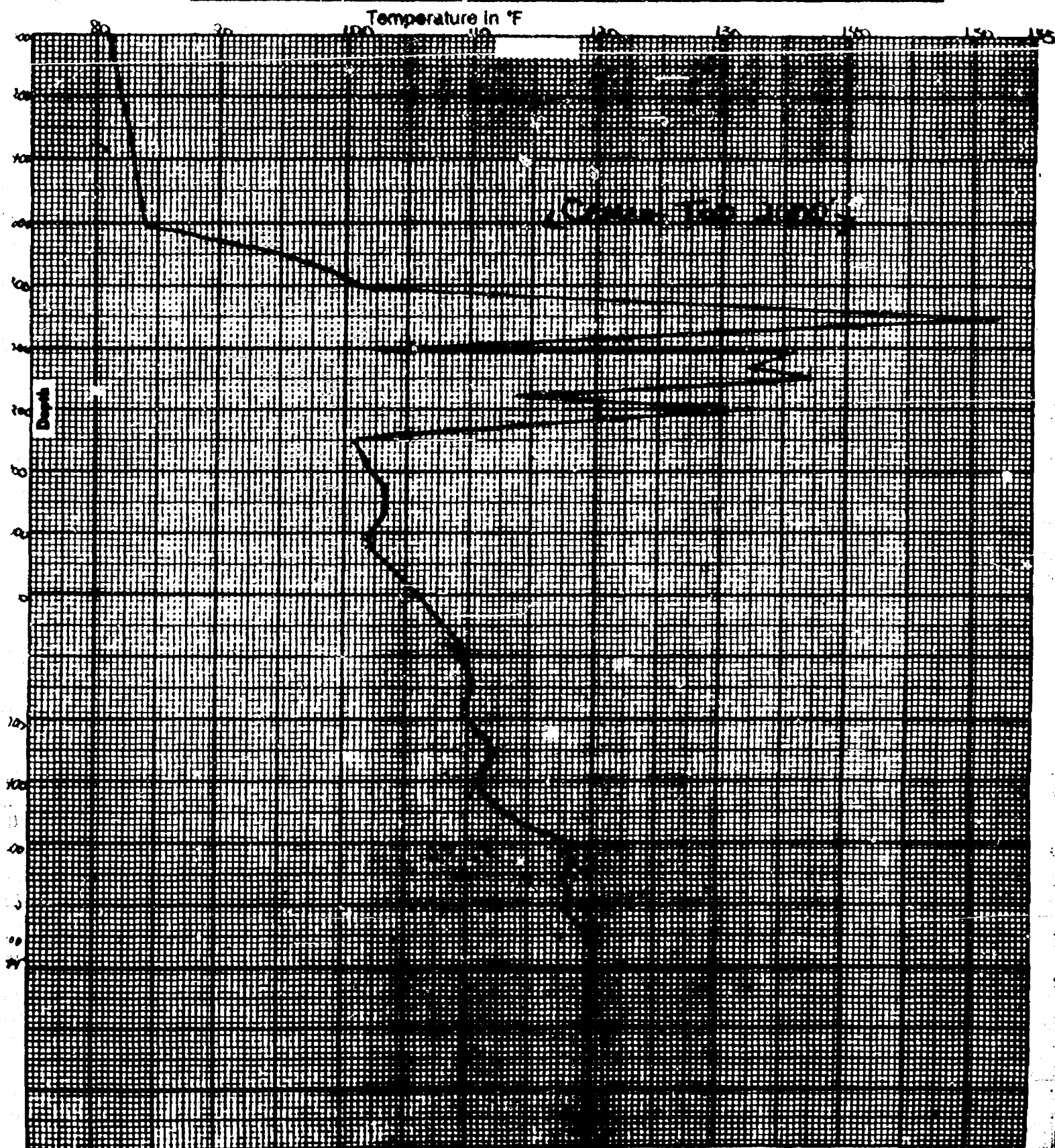
P. O. BOX 787
ARTESIA, NEW MEXICO 88210
Phone 746-3281



FRED POOL

TEMPERATURE SURVEY

OPERATOR FRED POOL
LEASE GYRNBURG FEDERAL
WELL NO. 11
FIELD NO. _____
DATE & TIME CEMENT JOB COMPLETED 7-21-80 1700 HOURS
DATE & TIME SURVEY MADE 7-22-80 0800 HOURS
SURVEY RUN BY DON BENNETT
DATUM _____
WELL DATA TOTAL DEPTH 4,984 FEET
CEMENT TOP 21600 FEET



**NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL**

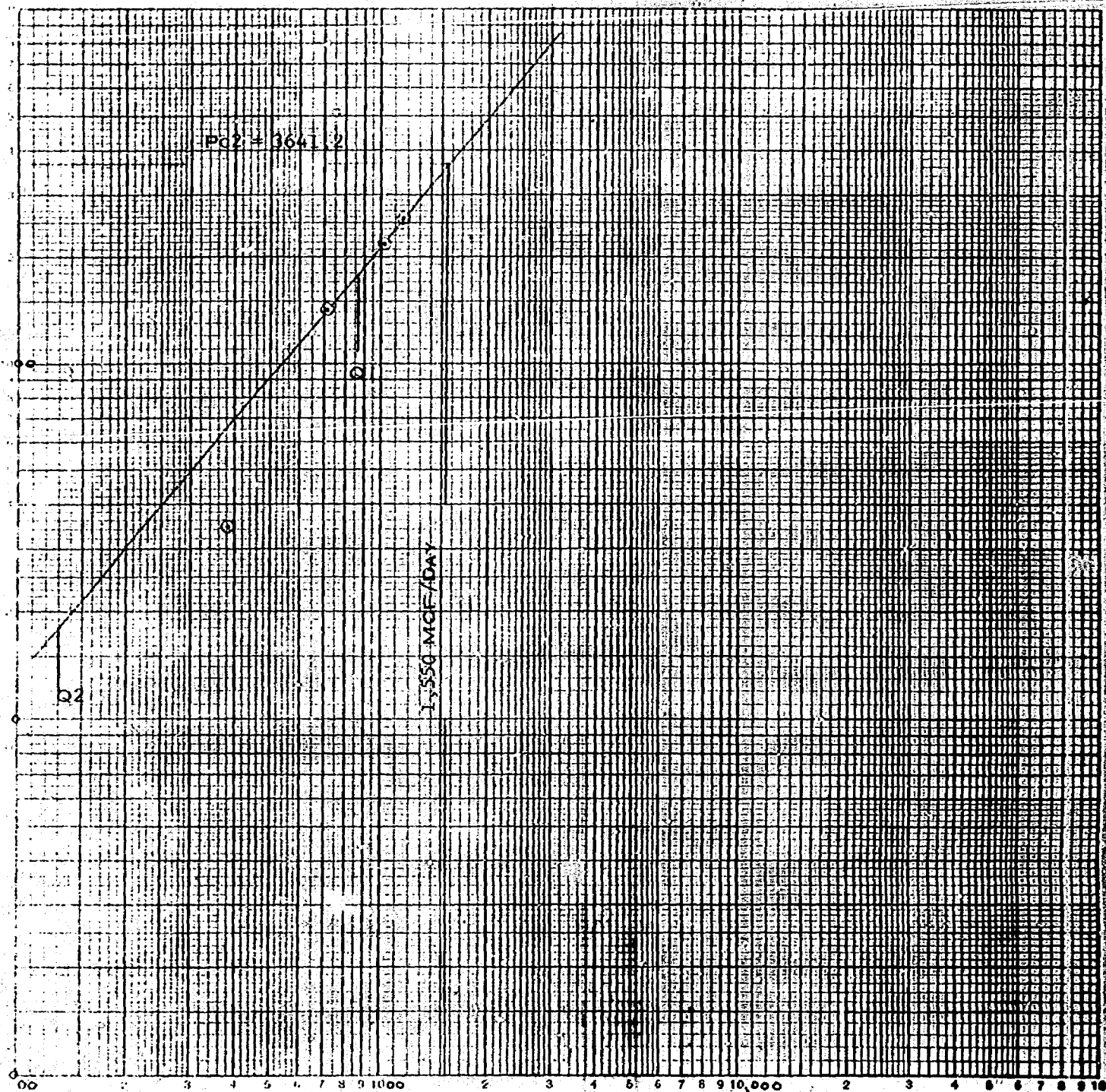
Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 8-19-80																																																																								
Company FRED POOL		To: AIR																																																																								
Pool PENN		Unit																																																																								
Completion Date 8-19-80	Total Depth 5035	Flow Back TD 4984	Elevation 3898																																																																							
Casing Size 4 1/2	Wt. 11.60	Set At 4,000	5035																																																																							
Tubing Size 2 3/8	Wt. 4.70	Set At 2,593	4804																																																																							
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE		Form or Lease Name GRYNBERG COMM, FEDERAL																																																																								
Producing Thru TUBING	Reservoir Temp. °F 123° 4851	Mean Annual Temp. °F 60°	Baro. Press. - P _a 13.2																																																																							
L 4851	H 4851	G _g .669	% CO ₂ 1.417																																																																							
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Approved By Commission:			Conducted By: W.S.		Calculated By: R.R.		Checked By: J.W.W.																																																																			

FRED POOL
GRYNBERG COMM, FEDERAL No. 1

$$\begin{aligned} \text{ABS (N)} &= Q1 = 867 = 2.937943 \\ Q2 &= 130 = 2.113943 \\ \hline N &= .824000 \end{aligned}$$

$$\text{CAOF} = 1160 \frac{(3641.2)^{.824}}{(2561.1)^{.824}} = 1,550 \text{ MCF/DAY}$$



Q = MCF/DAY

Form C-122F
Adopted 9-1-63

8/20/88

1

%H₂S

[illegible]

WORK SHEET FOR CALCULATION OF WELLHEAD PRESSURES (P_c or P_w)
FROM KNOWN BOTTOM HOLE PRESSURE (P_f or P_s)

Form C-122F
Adopted 8-1-65

COMPANY Fred Lee LEASE Greyberg WELL NO. 1 DATE _____
LOCATION: Unit L 4851 Section H 4851 Township LH 100 Range _____
G 1669 % CO₂ _____ % N₂ _____ % H₂S _____
GH 3245 PG 647 T 335
TABLE IX & X

LINE		1	2	3	4	5	6	7	8
1	$T_w(W.H. \circ R)$	534	534						
2	$T_g(B.H. \circ R)$	583	583						
3	$T = \frac{T_w + T_g}{2}$	559	559						
4	Z (Est.)	.859	.862						
5	TZ	478.8	481.4						
6	GH/TZ	6.76	6.741						
7	e^s (Table XIV)	1.29	1.29						
8	P_f or P_s	2150.2	2150.2						
9	P_f^2 or P_s^2	4623.4	4623.4						
10	$P_c^2 = P_f^2/e^s$ or $P_w^2 = P_s^2/e^s$	3587.6	3587.6						
11	P_c or P_w	1894.1	1894.9						
12	$P = \frac{P_w + P_s}{2}$ or $\left(\frac{P_c + P_f}{2}\right)$	2082.1	2082.6						
13	$P_f = (P/P_c)$	3.13	3.13						
14	$T_f = (T/T_c)$	1.17	1.17						

NEW-TEX LAB

P. O. BOX 1181
HOBBS, N.M. 88240

COPY OF ORIGINAL

No. 3825
Run No.
Date of Run 8-18-80
Date Secured 8-16-80

CERTIFICATE OF ANALYSIS

Fred Pool
West Engineering
412 N. Dal Paso
Hobbs, NM 88240

Grinberg Com Fed. #1

Secured by
Time

Date

FRACTIONAL ANALYSIS

Percentage Composition

MOL % LIQ. % G.P.M.

Dioxide	1.412	
en	13.917	
en sulfide		
en	80.447	
en	2.100	.560
en	.819	.225
en	.195	.064
en	.393	.124
en		
en	.097	.035
en	.136	.049
en	.092	.040
en Plus	.387	.178
	100.000	1.225

Calc. Sp. Gr. 0.6687
Calc. A.P.I.
Calc. Vapor Press.
Sp. Gr. PSIA
Mol. Wt. 19.40

LIQUID CONTENT (GAL./MCF)

Propane Calc. G.P.M.	.225
Butanes Calc. G.P.M.	.188
Pentanes Plus. G.P.M.	.302
Ethane Calc. G.P.M.	.560
RVP Gasoline G.P.M.	
B.T.U./Cu. Ft. @ 14.696 P.S.I.A.	
Dry Basis	925
Wet Basis	909
Sulfur Analysis by Titration	
Gr./100 Cu. Ft.	
Hydrogen Sulfide	
Mercaptans	
Sulfides	
Residual Sulfur	
Total Sulfur	

Deane Simpson

Checked by

Approved by

Additional Data and Remarks



Home Office 707 N. Leech, P. O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, TWX 910/986-0010

Company John West Engineering

Field Grynberg

Lease Comm. Fed #1

Sampling Date 8-20-80

Type of Sample Separator

WATER ANALYSIS

IONIC FORM	me/l *	mg/l *
Calcium (Ca++)	666.66	13333
Magnesium (Mg++)	83.34	1000
Sodium (Na+) (CALCULATED)	1057.60	24314
Iron (Total)		2050
Carbonate (HCO ₃ ⁻)	0.74	45
Bicarbonate (CO ₃ ⁻)	Not	Found
Hydroxide (OH ⁻)	Not	Found
Sulphate (SO ₄ ⁻)	16.16	776
Chloride (Cl ⁻)	1790.70	63500
Total Dissolved Solids		102964
pH 9.4 at 68°F		
Dissolved Solids on Evap. at 103° - 105° C		
Hardness as CaCO ₃	750.00	37500
Carbonate Hardness as CaCO ₃ (temporary)	0.74	37
Non-Carbonate Hardness as CaCO ₃ (permanent)	749.26	37463
Salinity as CaCO ₃	0.74	37
Specific Gravity @ 68° F	1.072	

* mg/l = milligrams per Liter

* me/l = milliequivalents per Liter

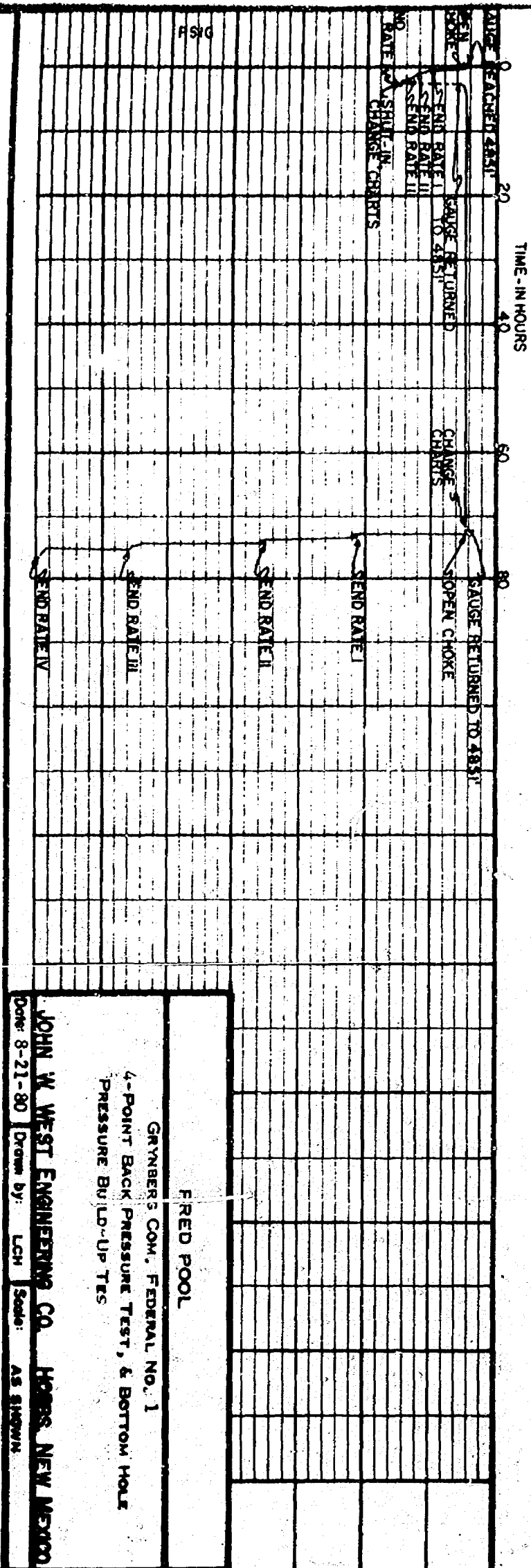
CO₃ S.I. negative @ 86°F (1.97)

CO₃ S.I. negative (0.42)

TEST DATE: August 16, to August 19, 1980
 TEST DEPTH: 4851 FEET

ELEMENT NO.: 43419
 RANGE: 0 - 3000 PSI
 CLOCK NO.: 4052
 RANGE: 12 HOURS (4-POINT)
 CLOCK NO.: E-794
 RANGE: 72 HOURS (Build-Up)

NOTE: SEE FOLLOWING PAGE FOR TABULATION OF TIMES AND PRESSURES.



JOHN W. WEST ENGINEERING CO. HOORS, NEW MEXICO

Date: 8-21-80 Drawn by: LCH Scale: AS SHOWN

GRYNBERG COM. FEDERAL NO. 1
 4-POINT BACK PRESSURE TEST, & BOTTOM HOLE
 PRESSURE BUILD-UP TEST

FRED POOL
 GRYNBERG COMM. FEDERAL NO. 1
 4-POINT BACK PRESSURE TEST &
 BOTTOM HOLE PRESSURE BUILD-UP TEST
 TABULATION OF TIMES AND PRESSURES

TEST CONDUCTED BY:
 JOHN WEST ENGINEERING COMPANY

TEST DATE: AUGUST 16, TO AUGUST 19, 1980
 TEST DEPTH: 4851 FEET
 ELEMENT NO.: 43419
 OPERATOR: M.B.

DATE	TIME	CUM. HRS. / MIN.		PSIG @ 4851 FEET
8-16-80	10:15 AM			2137 GAUGE REACHED 4851'
	10:30 AM	00 HRS.	00 MIN.	2137 OPEN CHOKE; BEGIN 4-POINT
	10:45 AM	00	15	2118
	11:00 AM	00	30	2055 END RATE I
8-16-80	11:15 AM	00	45	2034
	11:30 AM	01	00	2019 END RATE II
8-16-80	11:45 AM	01	15	2014
	12:00 NOON	01	30	2008 END RATE III
8-16-80	12:15 PM	01	45	1996
	12:30 PM	02	00	1981 END RATE IV; GAUGE OUT; CHANGE CHARTS
8-16-80	1:00 PM	02	30	2114 GAUGE RETURNED TO 4851'
	1:15 PM	02	45	2125
	1:30 PM	03	00	2127
	1:45 PM	03	15	2131
	2:00 PM	03	30	2131
	2:15 PM	03	45	2131
	2:30 PM	04	00	2131
8-16-80	3:00 PM	04	30	2134
	3:30 PM	05	00	2134
	4:00 PM	05	30	2134
	4:30 PM	06	00	2134
8-16-80	6:30 PM	08	00	2134
	8:30 PM	10	00	2137
8-17-80	1:30 AM	15	00	2137
	6:30 AM	20	00	2137
	10:30 AM	25	00	2137
	3:30 PM	30	00	2137
8-18-80	1:30 AM	40	00	2137
	11:30 AM	50	00	2137
	9:30 PM	60	00	2137
8-19-80	7:30 AM	70	00	2137
8-19-80	9:15 AM	71	45	2137 GAUGE OUT; CHANGE CHARTS

CONTINUED ON FOLLOWING PAGE

GRYNBERG COMM. FEDERAL NO. 1
 4-POINT BACK PRESSURE TEST &
 BOTTOM HOLE PRESSURE BUILD-UP TEST
 TABULATION OF TIMES AND PRESSURES

CONTINUED FROM PRECEEDING PAGE

DATE	TIME	CUM. HRS. / MIN.		PSIG @ 4851 FEET
3-19-80	9:45 AM	72 HRS.	15 MIN.	2137 GAUGE RETURNED TO 4851'
	10:00 AM	72	30	2137 OPEN CHOKE; BEGIN 4-POINT
	10:15 AM	72	45	1899
	10:30 AM	73	00	1870
	10:45 AM	73	15	1882 END RATE I
8-19-80	11:00 AM	73	30	1677
	11:15 AM	73	45	1662
	11:30 AM	74	00	1672 END RATE II
8-19-80	11:45 AM	74	15	1469
	12:00 NOON	74	30	1388
	12:15 PM	74	45	1369
	12:30 PM	75	00	1363 END RATE III
8-19-80	12:45 PM	75	15	1168
	1:00 PM	75	30	1164
	1:15 PM	75	45	1162
	1:30 PM	75	00	1159 END RATE IV; END 4-POINT; GAUGE OUT; END TEST

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 10-5-80	
Company FRED POOL				To AIR			
Pool LABO				Unit			
Completion Date 10-1-80		Total Depth 5035		Perforations: From 3778 To 3796		Elevation 3898	
Csg. Size 4 1/2		Wt. 11.6		Set At 5035		Well No. 1	
Tbg. Size 2 3/8		Wt. 4.70		Set At 2.995 3700		Unit Sec. Twp. Rge. 13 65 24	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple SINGLE				Packer Set At 3700		County CHAVES	
Producing Thru TBG		Reservoir Temp. °F 112 3787		Mean Annual Temp. °F 60		Baro. Press. - P ₀ 13.2	
L 3787		H 3787		G _g .677		% CO ₂ .316	
				% N ₂ 14.394		% H ₂ S -0-	
				Prover		Meter Run 4	
						Taps FLG	

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI							957				
1.	4	x	1.00	320	8	95	919				CHOKE 24 HOUR
2.	4	x	1.00	325	18	93	876				8/64 1 HOUR
3.	4	x	1.00	330	29	89	830				11/64 1 HOUR
4.	4	x	1.00	330	48	85	757				14/64 1 HOUR
5.											16/64 1 HOUR

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	4.753	51.63	333.2	.9680	1.215	1.021	295
2	4.753	78.02	338.2	.9697	1.215	1.021	446
3	4.753	99.76	343.2	.9732	1.215	1.022	573
4	4.753	128.35	343.2	.9768	1.215	1.022	740
5							

NO.	P _i	Temp. °R	T _i	Z	Gas Liquid Hydrocarbon Ratio DRY Mcf/bbl.
1	.52	555	1.62	.960	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2	.52	553	1.61	.959	Specific Gravity Separator G _{cs} .677 XXXXXXXXXX
3	.53	549	1.60	.958	Specific Gravity Flowing Fluid XXXXXX
4	.53	545	1.59	.957	Critical Pressure 645 P.S.I.A. P.S.I.A.
5					Critical Temperature 343 R R

NO.	P _i ²	P _w ²	P _w ²	P _i ² - P _w ²	(1) $\frac{P_c^2}{P_i^2 - P_w^2} = \frac{2.917}{0}$	(2) $\left[\frac{P_c^2}{P_i^2 - P_w^2} \right]^n = \frac{1.978}{0}$
1	*	940.4	884.4	70.3	$\left[\frac{P_c^2}{P_i^2 - P_w^2} \right]^n = 1.463$	
2	*	898.1	806.6	148.1		
3	*	861.3	741.8	212.9		
4	*	792.1	627.4	327.3		
5						

Absolute Open Flow	1,463	Mcfd @ 15.025	Angle of Slope @	57.5	Slope, n	.637
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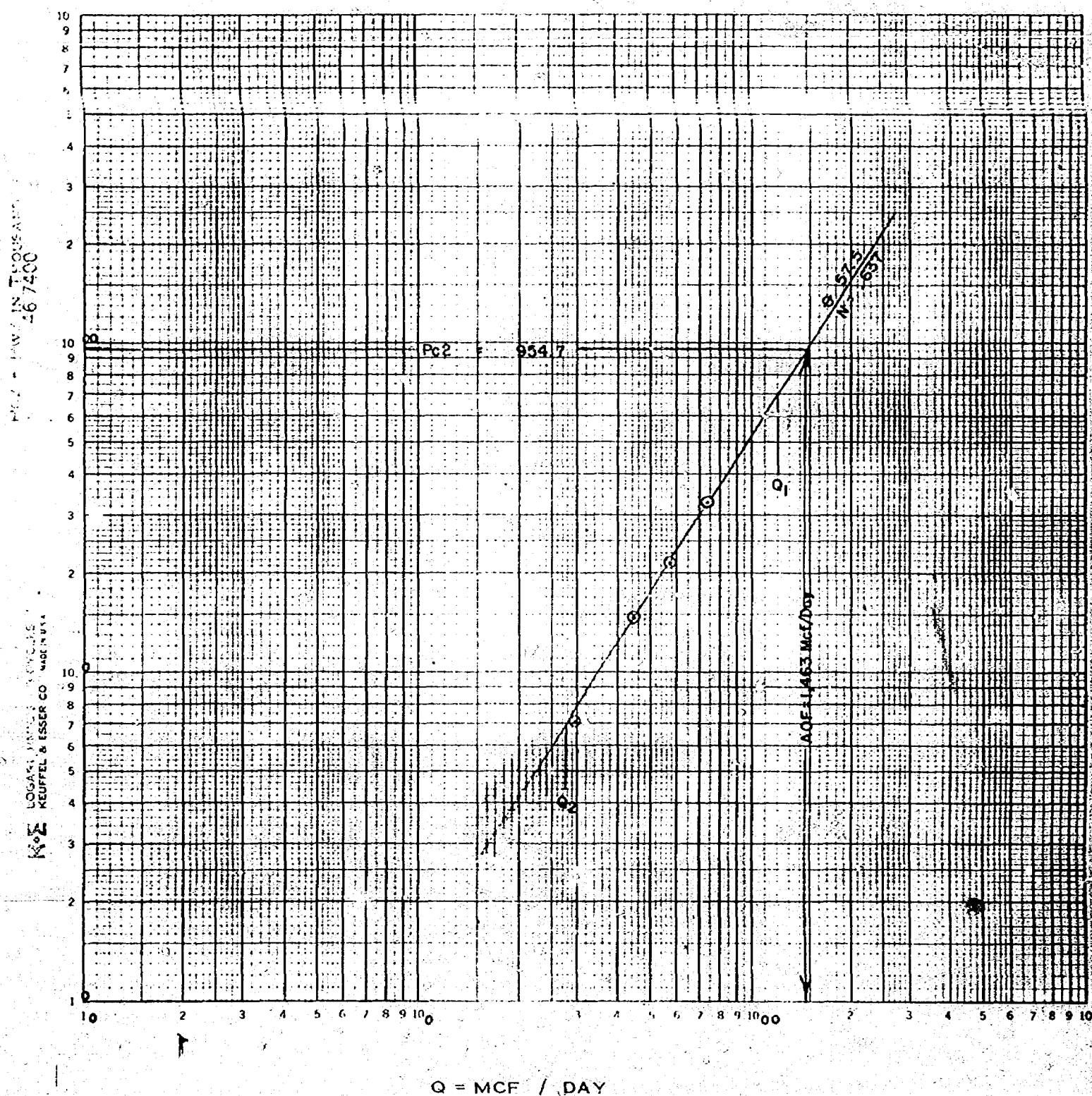
Remarks: **CALCULATED FROM KNOWN BOTTOM PRESSURES, MEASURED WITH A KUSTER GAUGE.**

Approved By Commission:	Conducted By: M.R.	Calculated By: R.R.	Checked By: J.W.W.
-------------------------	-----------------------	------------------------	-----------------------

FRED POOL
GRYNBERG NO. 1

$$\begin{array}{rcl} \text{ABS (N)} & Q1 = 1205 & = 3.081044 \\ & Q2 = 278 & = 2.444044 \\ \hline & N & = .637000 \end{array}$$

$$\text{CAOF} = 740 \left(\frac{954.7}{327.3} \right)^{.637} = 1,463 \text{ MCF/DAY}$$



WORK SHEET FOR CALCULATION OF WELLHEAD PRESSURES (P_c or P_w)

Form C-122F
Adopted 9-1-65

FROM KNOWN BOTTOM HOLE PRESSURE (P_f or P_s)

COMPANY Free Port LEASE Gwynberg WELL NO. 1 DATE _____

LOCATION: Unit _____ Section _____ Township _____ Range _____

L 3787 H 3787 L/H 1.00 G 6.77 % CO₂ .316 % N₂ 14.394 % H₂S _____

GH 2564 P_{cr} 645 T_{cr} 343
TABLE IX & X TABLE IX & X

LINE	1	2	3	4	5	6	7	8
1 $T_w(W.H. \text{ or } R)$	534	534	534	534	534	534	534	534
2 $T_s(R.H. \text{ or } R)$	572	572	572	572	572	572	572	572
3 $T = \frac{T_w + T_s}{2}$	553	553	553	553	553	553	553	553
4 Z (Est.)	.882	.887	.887	.891	.891	.895	.898	.902
5 TZ	487.7	490.5	490.5	492.7	493.7	494.7	496.4	498.8
6 GH/TZ	5.26	5.23	5.23	5.20	5.20	5.18	5.16	5.14
7 e^s (Table XIV)	1.22	1.22	1.22	1.22	1.22	1.21	1.21	1.21
8 P_f or P_s	1037.2	1037.2	990.2	990.2	949.2	949.2	872.2	872.2
9 P_f^2 or P_s^2	1075.8	1075.8	980.5	980.5	901.0	901.0	760.7	760.7
10 $P_c^2 = P_f^2/e^s$ or $P_w^2 = P_s^2/e^s$	863.3	864.3	805.9	806.7	741.3	741.9	626.8	632.4
11 P_c or P_w	935.8	940.4	897.8	898.1	860.9	861.3	791.7	792.1
12 $P = \left(\frac{P_w + P_s}{2} \right)$ or $\left(\frac{P_c + P_f}{2} \right)$	988.5	988.8	944.0	944.2	905.1	905.3	832.0	832.1
13 $P_r = (P/P_{cr})$	1.53	1.53	1.46	1.46	1.40	1.40	1.29	1.29
14 $T_r = (T/T_{cr})$	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61
15 Z (Table XI)	.887	.887	.891	.891	.895	.895	.902	.902

One copy to be filed in District Office (Work copy acceptable)

WORK SHEET FOR CALCULATION OF WELLHEAD PRESSURES (P_c or P_w)
FROM KNOWN BOTTOM HOLE PRESSURE (P_f or P_s)

Form C-122F
Adopted 9-1-65

COMPANY Fred Pool

LEASE Grymberg

WELL NO. 1

LOCATION: Unit

Section

Township

Range

DATE

L 3287

H 3287

L/H 1.00

C 1.677

% CO₂

% N₂ 14.394

% H₂S

GH 2564

P_{cr} 1.005

T_{cr} 343

Shubin

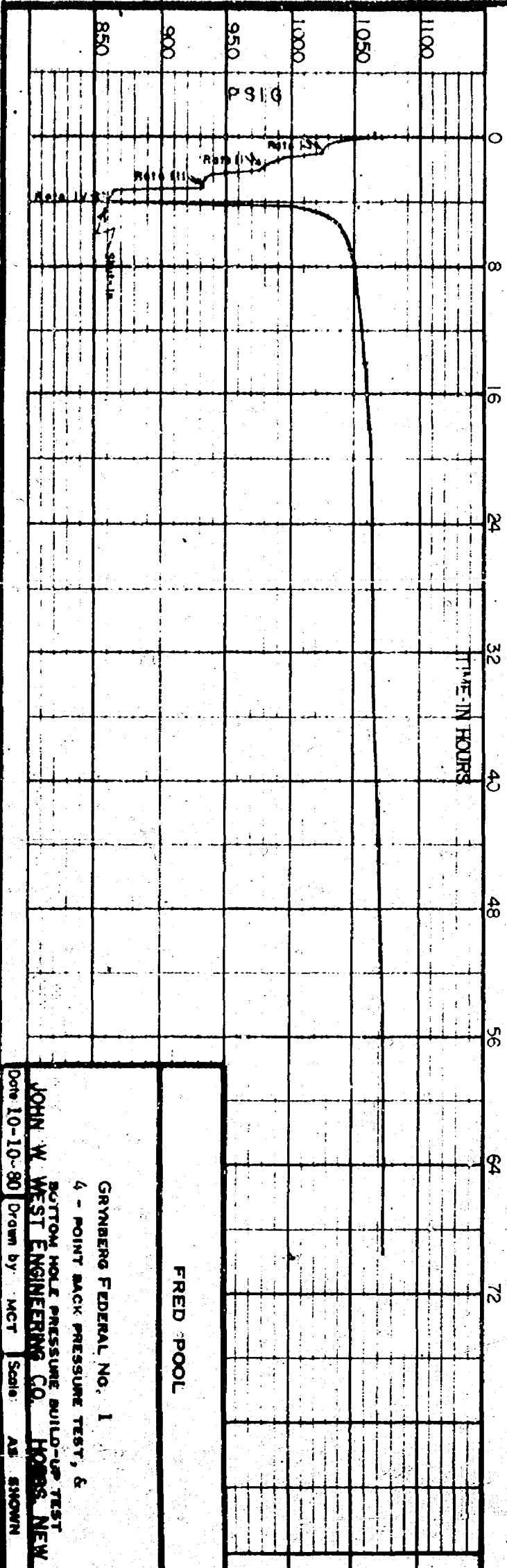
LINE	1	2	3	4	5	6	7	8
1	$T_w(W.H. \text{ or } R)$	534	534					
2	$T_s(E.H. \text{ or } R)$	572	572					
3	$T = (\frac{T_w + T_s}{2})$	553	553					
4	Z (Est.)	.879	.883					
5	TZ	116.1	488.3					
6	GH/TZ	5.27	5.25					
7	e^s (Table XIV)	1.22	1.22					
8	P_f or P_s	1078.2	1078.2					
9	P_f^2 or P_s^2	1162.5	1162.5					
10	$P_c^2 = P_f^2/e^s$ or $P_w^2 = P_s^2/e^s$	953.9	954.7					
11	P_c or P_w	976.7	972.1					
12	$P_r = (\frac{P_w + P_s}{2})$ or $(\frac{P_c + P_f}{2})$	1027.4	1057.7					
13	$P_r = (P/P_{cr})$	1.59	1.59					
14	$T_r = (T/T_{cr})$	1.61	1.61					
15	Z (Table XI)	1.883	1.883					

One copy to be filed in District Office (Work copy annotated)

TEST DATE: 10/5THRU8/80
TEST DEPTH: 3787

ELEMENT NO.: 43419
RANGE: 0 - 3000 PSI
CLOCK NO.: E 2145
RANGE: 72 HOURS

NOTE: SEE FOLLOWING PAGE FOR TABULATION OF TIMES AND PRESSURES.



**BOTTOM HOLE PRESSURE BUILD - UP TEST
TABULATION OF TIMES AND PRESSURES**

TEST DATE: 10/5-8/80
TEST DEPTH: 3787
ELEMENT NO.: 43419
OPERATOR: M.R.

DATE	TIME	CUM. HRS. / MIN.		PSIG @ 3787 FEET	
10-5-80	12:30PM			1065 GAUGE REACHED 3787	
	12:45PM	0	00	1065	
	1:00PM	0	15	1038	
	1:15PM	0	30	1030	
	1:30PM	0	45	1027	
	1:45PM	1	00	1024 END RATE I	
	2:00PM	1	15	993	
	2:15PM	1	30	986	
	2:30PM	1	45	981	
	2:45PM	2	00	977 END RATE II	
	3:00PM	2	15	939	
	3:15PM	2	30	933	
	3:30PM	2	45	931	
	3:45PM	3	00	931 END RATE III	
	4:00PM	3	15	864	
	4:15PM	3	30	863	
	4:30PM	3	45	860	
	4:45PM	4	00	859 END RATE IV	
	10-5-80	4:45PM	0	00	859 SHUT - IN , BEGIN BUILD-UP
		5:00PM	0	15	1003
5:15PM		0	30	1018	
5:30PM		0	45	1025	
5:45PM		1	00	1034	
6:00PM		1	15	1038	
6:15PM		1	30	1039	
6:30PM		1	45	1041	
6:45PM		2	00	1042	
7:00PM		2	15	1045	
7:30PM		2	45	1047	
8:00PM		3	00	1047	
8:30PM		3	30	1048	
9:00PM		4	00	1050	
10:00PM		5	00	1051	
11:00PM		6	00	1053	
10-6-80		1:00AM	8	00	1054
	3:00AM	10	00	1057	
	8:00AM	19	00	1062	
	1:00PM	20	00	1063	
10-7-80	11:00PM	30	00	1066	
	9:00AM	40	00	1069	
10-7-80	7:00PM	54	00	1072	
10-8-80	5:00AM	64	00	1074	
10-8-80	10:30AM	65	30	1074 END TEST	

**NEW-TEX
LAB**
P. O. BOX 1161
HOBBS, N.M. 88240

No. 4040
Run No. _____
Date of Run 10-8-80
Date Secured 10-5-80

CERTIFICATE OF ANALYSIS

Sample of Fred Pool Grynberg Federal #1
Secured from West Engineering
At 412 N. Dal Paso
Hobbs, N.M. 88240
Sampling conditions _____ Press _____ Date _____
Temp. _____

FRACTIONAL ANALYSIS

Percentage Composition

	MOL %	LIQ. %	G.P.M.
Carbon Dioxide	.316		
Air			
Nitrogen	14.394		
Oxygen			
Hydrogen sulfide			
Hydrogen			
Methane	78.126		
Ethane	4.100	1.093	
Propane	1.662	.456	
Butanes			
Iso-Butane	.258	.084	
N-Butane	.588	.185	
Pentanes			
Iso-Pentane	.149	.054	
N-Pentane	.184	.056	
Hexanes	.104	.043	
Heptanes Plus	.120	.055	
Octanes			
TOTAL	100.000	2.036	

Calc. Sp. Gr. 0.6768
Calc. A.P.I. _____
Calc. Vapor Press. _____ PSIA
Sp. Gr. _____
Mol. Wt. 19.60

LIQUID CONTENT (GAL./MCF)

Propane Calc. G.P.M. .456
Butanes Calc. G.P.M. .269
Pentanes Plus. G.P.M. .218
Ethane Calc. G.P.M. 1.093
RVP Gasoline G.P.M. _____
B.T.U./Cu. Ft. @ 14.696 P.S.I.A.
Dry Basis 956
Wet Basis 939
Sulfur Analysis by Titration
Gr./100 Cu. Ft.
Hydrogen Sulfide
Mercaptans
Sulfides
Residual Sulfur
Total Sulfur

Run by Deane Simpson Checked by _____ Approved by Deane Simpson

Additional Data and Remarks

FRED POOL DRILLING, INC.

Box 1300, Clovis Star Route
Roswell, New Mexico 88201

Dec. 29, 1980

CASE # 7113

FRED POOL DRILLING, Inc.

Multiple Completion

ABO

and

PERMO PENN Formations

Appel EX 1
CS 7113

Dockets Nos. 1-81 and 2-81 are tentatively set for January 14 and 28, 1981. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - TUESDAY - DECEMBER 30, 1980

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

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

CASE 7113: Application of Fred Pool, Jr. for a dual completion, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion of his Grynberg Com Fed. Well No. 1 located in Unit J of Section 13, Township 6 South, Range 24 East, to produce gas from the Abo and Pennsylvanian formations.

CASE 7051: (Continued from November 25, 1980, Examiner Hearing)

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

CASE 6940: (Continued from November 25, 1980, Examiner Hearing)

Application of Adobe Oil Company for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests down through the Wolfcamp formation underlying the NW/4 SE/4 for oil and the SE/4 for gas, Section 23, Township 20 South, Range 38 East, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.

CASE 7103: (Continued from December 10, 1980, Examiner Hearing)

Application of E. L. Latham, Jr. for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Wolfcamp thru Pennsylvanian formations underlying the N/2 of Section 7, Township 22 South, Range 26 East, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.

CASE 7114: Application of Yates Petroleum Corporation for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Rio Penasco "JX" Well No. 2, a Morrow test to be drilled 660 feet from the South and East lines of Section 35, Township 18 South, Range 25 East, the S/2 of said Section 35 to be dedicated to the well.

CASE 7115: Application of Yates Petroleum Corporation for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of a Morrow test well to be drilled 660 feet from the South and East lines of Section 14, Township 17 South, Range 26 East, the S/2 of said Section 14 to be dedicated to the well.

CASE 7116: Application of Southland Royalty Company for designation of a tight formation, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks the designation of the Dakota formation underlying portions of Townships 31 and 32 North, Ranges 10, 11, 12, and 13 West, containing 93,860 acres, more or less, as a tight formation pursuant to Section 107 of the Natural Gas Policy Act and 18 CFR Section 271.701-705.

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

Form C-107
5-1-61

Operator Fred Pool Jr.		County Chaves		Date 11-18-80
Address Box 1300 Clovis Star Rt. Roswell		Lease Grynberg Com Fed		Well No. #1
Location of Well J	Unit J	Section 13	Township 6s	Range 24e

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	Abo		Penn
b. Top and Bottom of Pay Section (Perforations)	3586' - 3596' 3697' - 3707' 3778' - 3796'		4848' - 4854'
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)

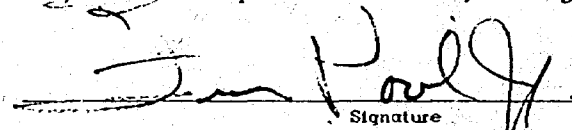
- | | | |
|-------------------------------------|--------------------------|---|
| Yes | No | |
| ☒ | ☐ | a. Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top 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. |
| ☒ | ☐ | 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. |
| ☒ | ☐ | 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.* |
| ☒ | ☐ | 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.

Jack Grynberg 1050 17th Street Suite 1950 Denver, Colorado 80265

6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES X NO _____. If answer is yes, give date of such notification **11-18-80**.

CERTIFICATE: I, the undersigned, state that I am the **President** of the **Fred Pool Drilling Co.** (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.


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.

MULTIPLE COMPLETION
(CONVENTIONAL)

P.1

Grynberg Com Federal #1
T6s R24e Sec. 13
1980 FEL 1980 FSL
Chaves County, New Mexico

- 1) Said well is to be completed as a gas-gas and the hydrocarbons from each of the zones can be safely and efficiently produced through one string of tubing and one string of casing.
- 2) The packer used to segregate the separate zones of multiple completion will be a Baker Lockset Packer and shall effectively prevent communication between the two producing zones.
- 3) The two producing zones are the A80 and Penn respectively.
- 4) Form C-107 attached hereto.
- 5) For administrative approval;

- | | |
|---|--|
| <p><u> x </u></p> <p><u> x </u></p> <p><u> x </u></p> <p><u> x </u></p> <p><u> x </u></p> <p><u> x </u></p> <p><u> x </u></p> <p><u> x </u></p> <p><u> x </u></p> <p><u> x </u></p> <p><u> x </u></p> <p><u> x </u></p> <p><u> x </u></p> <p><u> x </u></p> <p><u> x </u></p> | <p>a) Diagrammatic sketch of the Multiple completion:</p> <ol style="list-style-type: none"> 1) Showing all casing strings 2) Diameters and setting depths 3) Centralizers and/or turbolizers and location thereof 4) Quantities used and top of cement 5) Perforated intervals 6) Tubing strings, including diameters and setting depth 7) Location of packers 8) Sleeves <p>b) Plat showing the location of all wells on applicants lease</p> <ol style="list-style-type: none"> 1) All offset wells on offset leases 2) The names and addresses of operators of leases 3) Evidence that said offset operators have been furnished with copies of the application |
|---|--|

MULTIPLE COMPLETION
(CONVENTIONAL)

P.2

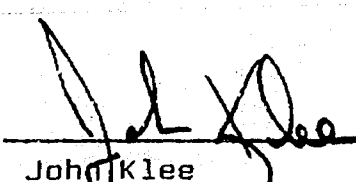
Grynberg Com Federal #1
T6s R24e Sec. 13
1980 FEL 1980 FSL
Chaves County, New Mexico

- ☒ 4) Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforations indicated thereon.
- ☒ c) Logs
 - ☒ 1) Computer processed log.
 - ☒ 2) Perforating depth control
 - ☒ 3) Casing collar log and perforating record
 - ☒ 4) Dual Laterolog Micro-SFL
- ☒ d) Drilling status reports
 - ☒ 1) Well completion reports

AFFIDAVIT OF MAILING OR DELIVERY

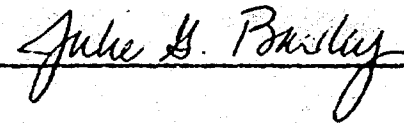
Application for Multiple Completion
Grynberg Com Federal #1
Sec. 13 T6s R24e
Chaves County, New Mexico

I hereby certify that I have this day mailed a copy of Form C-107
to Jack Grynberg, lease holder of Lease No. 11795 Sec.12 T6s R24e
north offset to captioned well.


John Klee

STATE OF NEW MEXICO
COUNTY OF CHAVES

The foregoing instrument was acknowledged before me this 19th
day of November, 1980, by John Klee.


Julie H. Bawley

My commission expires

Oct. 15, 1984

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL ☒ DEEPEN ☐ PLUG BACK ☐			5. LEASE DESIGNATION AND SERIAL NO. NM-11795	
b. TYPE OF WELL OIL WELL ☐ GAS WELL ☒ OTHER ☐			6. IF INDIAN, ALLOTTEE OR TRIBE NAME ---	
2. NAME OF OPERATOR Fred Pool Drilling Company			7. UNIT AGREEMENT NAME ---	
3. ADDRESS OF OPERATOR 409 White Building, Roswell, New Mexico 88201			8. FARM OR LEASE NAME Grynberg-Com Federal	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 1980' FSL & 1980' FEL of Sec. 13 At proposed prod. zone Same			9. WELL NO. 1	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 27 air miles north-northeast of Roswell, N. M.			10. FIELD AND POOL, OR WILDCAT Wildcat	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drg. unit line, if any) 660'			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 13-6S-24E	
16. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. N.A.			12. COUNTY OR PARISH Chaves	
17. NO. OF ACRES IN LEASE 2360			13. STATE N. M.	
18. PROPOSED DEPTH 5500 Granite Wash			14. NO. OF ACRES ASSIGNED TO THIS WELL 320	
19. ROTARY OR CABLE TOOLS Rotary			20. APPROX. DATE WORK WILL START* April 15, 1980	
21. ELEVATIONS (Show whether DP, RT, GR, etc.) 3898 G. L.				

PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
7 1/2"	13 3/8"	48#	400' +/-	Circ.
12 1/4" or 13"	8 5/8"	24#	1500' +/-	Circ.
7 7/8"	4 1/2"	10.5#	TD	1000' above pay

Selectively perforate and treat pay zone.

Gas is not dedicated to a pipeline.

Attached are: Survey Plat (C-102)

Supplemental Drilling Data

Surface Use Plan

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout prevention program, if any.

24.

SIGNED	Frederic Pool, Jr.	TITLE	Owner	DATE	4-1-80
(This space for Federal or State office use)					

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

WELL LOCATION AND ACREAGE DEDICATION PLAT

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

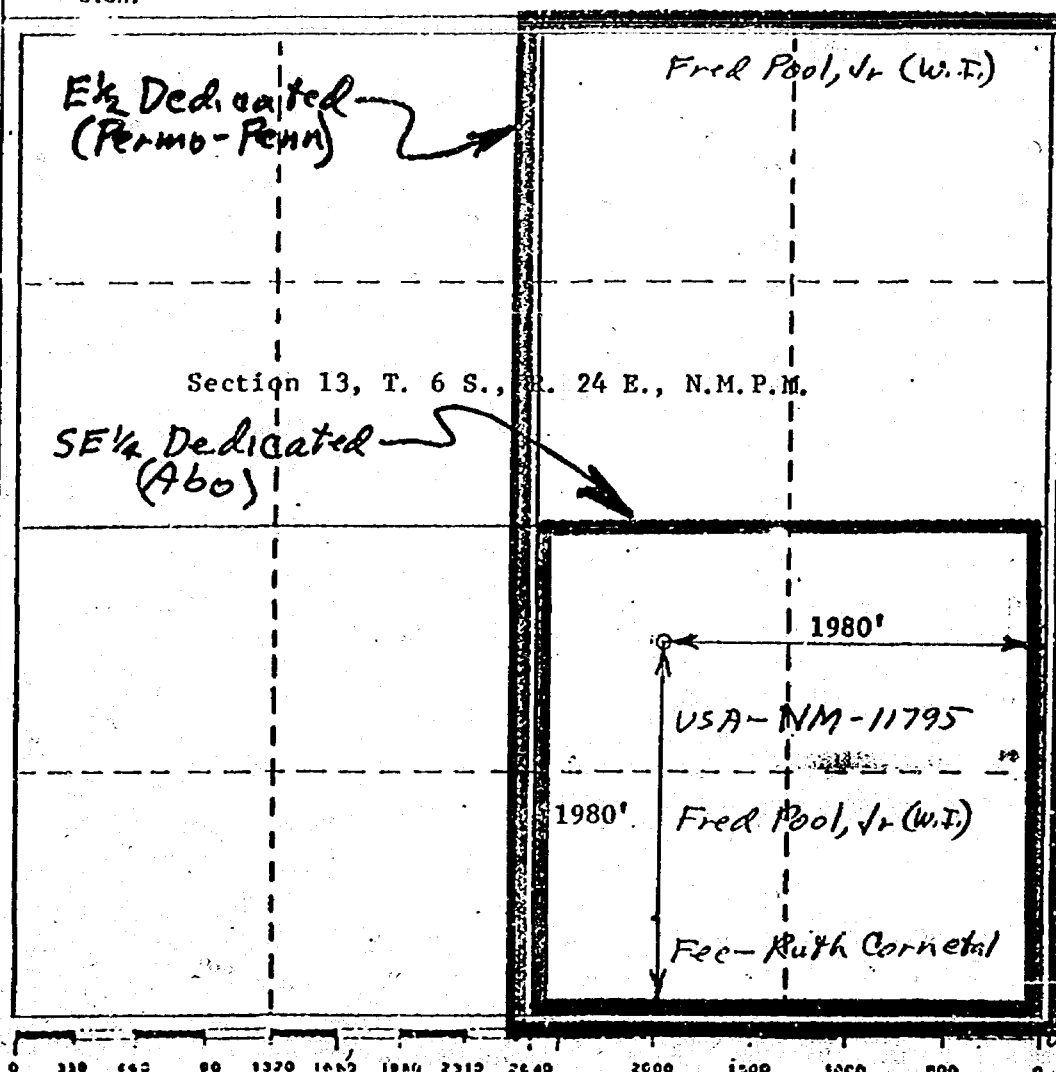
Fred Pool Drlg. Co.			Grynberg, Federal		Well No. 1
Well Letter J	Section 13	Township 6S	Range 24E	County Chaves	
Actual Footage Location of Well:					
2280 feet from the East line and		1980 feet from the South line			
Ground Level Elev. 3896.0	Producing Formation Penn	Pool Wildcat	Dedicated Acreage 160 Abo		320 Permopenn 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 Communitization

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.

Fred Pool, Jr.

Name
Owner

Position
Fred Pool Drlg. Co.

Company
March 26, 1980

Date

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

March 22, 1980

Date Surveyed
John D. Jaquess, P.E. & L.S.

Registered Professional Engineer and/or Land Surveyor

John D. Jaquess

Certificate No.

6290

CREATOR'S COPY
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE
(Other instructions on re-
verse side)Form approved,
Budget Bureau No. 42-R1424
5. LEASE DESIGNATION AND SERIAL NO.

NM-11795

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Grynberg-Com Federal

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

13-6S-24E

12. COUNTY OR PARISH

Chaves

13. STATE

N. M.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT" for such proposals.)1. OIL ☐ GAS ☒ OTHER ☐

2. NAME OF OPERATOR

Fred Pool Drilling Company

3. ADDRESS OF OPERATOR

409 White Bldg., Roswell, New Mexico 88201

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

At surface

1980' FSL & 1980 FEL of Sec. 13

11. PERMIT NO.

15. ELEVATIONS (Show whether 13, 14, 15, etc.)

3898 G. L.

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)

FILL OR ALTER CASING

MULTIPLE COMPLETION

ABANDON*

CHANGE PLANS

X

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(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 directional - drilled, give subsurface locations and measured and true vertical depths for all markers and zones per-
tinent to this work.)

The rotary rig, which was scheduled to drill this well,
has been delayed with a fishing job on another well;
and as we plan to be drilling over May 31, 1980, the lease
expiration date, it may be necessary, that we drill with a
cable tool rig until the rotary rig becomes available.

Anticipated spud date is May 28, 1980.

RECEIVED

MAY 21 1980

U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

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

SIGNED

James A. Knaut

TITLE Agent

DATE May 19, 1980

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

WINEE

DATE

MAY 21 1980

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 41-N1494

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT" for such proposals.)

RECEIVED

1. OIL WELL ☐ GAS WELL ☒ OTHER ☐	2. NAME OF OPERATOR Fred Pool Drilling Co.	3. ADDRESS OF OPERATOR 409 White Bldg. Roswell, N.M.	4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1980' FSL & 1980 FEL of sec. 13	5. ELEVATION (Show whether DF, RT, OR, etc.) 3898 S.L.	6. LEASE DESIGNATION AND SERIAL NO. N.M. 11795	7. UNIT AGREEMENT NAME	8. FARM OR LEASE NAME Grynberg-Com Fed	9. WELL NO. 1	10. FIELD AND POOL, OR WILDCAT Wildcat	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 13-6S-24E	12. COUNTY OR PARISH Chaves	13. STATE N.M.
--	---	---	--	---	---	------------------------	---	------------------	---	---	--------------------------------	-------------------

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

NOTICE OF INTENTION TO:			SUBSEQUENT REPORT OF:		
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other) Surface casing	☒
(Other)	☐			(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.)

June 3, 1980
Ran 305 feet of 13 3/8" surface casing 48# ME. 1 Brd ST&C
Cemented with 150 sx Class C Cement
Cement circulated.
Plugged down 2:00 p.m.

J.D.C. 6-4-80 and 6-5-80

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

SIGNED <u>Pete Jones</u>	TITLE <u>Secretary</u>	DATE <u>6-5-80</u>
(This space for Federal or State office use)		DATE <u>JUN 06 1980</u>
APPROVED BY <u>ACTING DISTRICT ENGINEER</u>	TITLE <u>ACTING DISTRICT ENGINEER</u>	DATE <u>JUN 06 1980</u>
CONDITIONS OF APPROVAL, IF ANY:		

*See Instructions on Reverse Side

Form 9-331
(May 1983)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPlicate
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.
5. LEASE DESIGNATION AND SERIAL NO.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT" for such proposals.)

1. OIL WELL ☒ GAS WELL ☒ OTHER ☐	2. NAME OF OPERATOR Fred Pool Drilling Co.	3. ADDRESS OF OPERATOR 437 White Bldg. Roswell, N.M. 88201	4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1980 FSL ; 1980 FEL of Sec. 13-6S- 24E Chaves County, N.M.	5. LEASE DESIGNATION AND SERIAL NO. N.M. 11795	6. IF INDIAN, ALLOTTEE OR TRIBE NAME	7. UNIT AGREEMENT NAME	8. FARM OR LEASE NAME Grynberg-Comm Federal	9. WELL NO. 1	10. FIELD AND POOL, OR WILDCAT Und. Wildcat	11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA 13-6S-24E	12. COUNTY OR PARISH Chaves	13. STATE N.M.
14. PERMIT NO. 191	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 3898. OL											

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

NOTICE OF INTENTION TO:			SUBSEQUENT REPORT OF:		
WATER SHUT-OFF	☐	FULL OR ALTER CASING	☐	WATER SHUT-OFF	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other) intermediate casing 8 5/8	☐
(Other)	☐				

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.)

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

June 8, 1980

Set 1449 Ft. new 24" 8 5/8 casing. Cemented with 550 sx cement; (450 Halliburton Lite, 100 sx Class C). Cemented/circulated. Plug down at 9: a.m.

W O C 24hrs. Tested E O P and casing to 500' for 30 minutes. No pressure drop.

Started drilling at 2 p.m. July 9, 1980

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

SIGNED Pete Jones

TITLE Secretary

DATE 7-11, 1980

(This space for Federal or State office use)

APPROVED BY (Sgd.) PETER W. CHESTER

TITLE ACTING DISTRICT ENGINEER

DATE JUL 14 1980

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

OPERATOR'S COPY
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
SUBMIT IN TRIPPLICATE*
(Other instructions on reverse side)Form approved.
Budget Bureau No. 42-R1424.
LEASE DESIGNATION AND SERIAL NO.
D.B. 11795
IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT--" for such proposals.)

1. ☐ OIL WELL ☐ GAS WELL ☐ OTHER	7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR	8. FARM OR LEASE NAME
3. ADDRESS OF OPERATOR Fred Pool Drilling Co. 457 White Bldg. Roswell, N.M. 88201	9. Rynberg-Com Federal
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface: 1300 E. 1980 E. of 13-61-24E Chaves County, N.M.	10. FIELD AND POOL, OR WILDCAT Und. wildcat
11. PERMIT NO.	12. COUNTY OF PERMIT
13. ELEVATIONS (Show whether DE, RT, OR, etc.)	14. STATE
	Chaves N.M.

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRAC-TURE TREAT

SHOOT OR ACIDIZE

PLUG WELL

(Other)

PULL OR WATER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGES PLANNED

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRAC-TURE TREATMENT

SHOOTING OR ACIDIZING

(Other) 1 1/2" casing

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(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 and 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.)

July 11, 1980

Drill 1,035 feet of 10.5" 1 1/2" casing

Cemented with 425 ss Class C and 425 ss PCZ Mix.

Casing 1650 ft. 111 to 150 ft.

Plug down 5:27 p.m. July 21, 1980

Casing 1500 ft.

Final log 4591 ft.

Intent to Perforate and Acidize.

RECEIVED

JUL 24 1980

U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

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

SIGNED

[Signature]

TITLE

Secretary

DATE 7-23, - 80

(This space for Federal or State office use)

APPROVED BY (Ons. Sec.) PETER W. CHESTER

TITLE

ARTESIA DISTRICT ENGINEER

DATE JUL 25 1980

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPPLICATE*
(Other instructions on re-
verse side)Form approved,
Budget Bureau No. 42-R1424.
5. LEASE DESIGNATION AND SERIAL NO.

11795

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Crynberg-Com Fed.

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Und. Wildcat

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

13-63-24E

12. COUNTY OR PARISH

Chaves

13. STATE

N.M.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT-" for such proposals.)1. ☐ OIL
WELL ☐ GAS
WELL ☒ OTHER

2. NAME OF OPERATOR

Fred Pool Drilling Co.

3. ADDRESS OF OPERATOR

437 Shile Bldg. Roswell, N.M. 88201

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

At surface

1533 FEL, 1988 FEL of 1-13-61-24E

Chaves County, N.M.

14. PERMIT NO.

134

15. ELEVATIONS (Show whether DF, RT, OR, etc.)

3331. 01

16

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOT OR ACIDIZ

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) XXXXX/2 Acid Report

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log for 2.)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 perti-
nent to this work.) *

Drilled from 4348-48 - 13 holes - 2 per foot.

acidized with 1600 gal. (500 15' HCL and 1000 gal mud acid.)

mud acid = 3' + 12' HCL

1000 cubic feet N2.

Set 2 3/8 at 4084 with B.D. Packer

Used Sulco variable choke.

Cleaned up and prepare to test well with 4 point test!

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

SIGNED

TITLE

Secretary

DATE

8/18/80

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

ACCEPTED FOR RECORD

DATE

*See Instructions on Reverse Side

AUG 25 1980
K-E-Sales
U.S. GEOLOGICAL SURVEY
ROSWELL, NEW MEXICO

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 ☐ GAS WELL ☒ DRY ☐ Other _____		5. LEASE DESIGNATION AND SERIAL NO. N.M. 11795	
2. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. REVR. ☐ Other _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME _____	
3. NAME OF OPERATOR Fred Pool Drilling Co.		7. UNIT AGREEMENT NAME _____	
8. ADDRESS OF OPERATOR Box 1300 Clovis Star Rt. Roswell, N.M. 88201		8. FARM OR LEASE NAME Grynberg-Com Federal	
9. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 1980 FGL, 1980 FEL, of Sec. 13-65-24E At top prod. interval reported below 4355 ft. At total depth 5035 ft.		9. WELL NO. 1	
14. PERMIT NO. 194		DATE ISSUED 4-2-80	
15. DATE SPUNDED 5/28/80		16. DATE T.D. REACHED 7/20/80	
17. DATE COMPL. (Ready to prod.) 8/25/80		18. ELEVATIONS (OF, RMB, RT, OR, ETC.)* 3898, GR	
19. TOTAL DEPTH, MD & TVD 5035 ft.		20. SLEV. CASING HEAD 3898	
21. PLUG, BACK T.D., MD & TVD 4984 ft.		22. IF MULTIPLE COMPL., HOW MANY? _____	
23. INTERVALS DRILLED BY XX		24. ROTARY TOOLS CABLE TOOLS	
25. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 4848-4354 Penn		26. WAS DIRECTIONAL SURVEY MADE Yes	
27. TYPE ELECTRIC AND OTHER LOGS RUN Dual Laterolog Micro-SFL, Perforating Depth Control		28. WAS WELL CORRED no	
29. CASING RECORD (Report all strings set in well)			
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE
13 3/8	13.7	305 ft.	17"
8 5/8"	24.5	1440 ft.	11"
1 1/2	10.5	5035 ft.	7 7/8
CEMENTING RECORD			
150 sx Class C			
450 Halliburton Lite			
100 Class C			
425 Class C, 425 PCZ			
AMOUNT PULLED Circulated			
30. LINER RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*
31. TUBING RECORD			
SIZE	DEPTH SET (MD)	PACKER SET (MD)	
2 3/8	4804	4804	
32. PERFORATION RECORD (Interval, size and number) 4848-4854 13 Holes 7 per ft.			
33. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
DEPTH INTERVAL (MD)			
4848-4854v 1500 Gal. (600 gal 15% HCL, 1000mod Acid)			
34. PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing			
35. WELL STATUS (Producing or shut-in) Shut-In			
DATE FIRST PRODUCTION	PRODUCTION METHOD	DATE OF TEST	HOURS TESTED
		8/19/80	72
CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.
			1500
WATER—BBL.	GAS—OIL RATIO	FLOW. TUBING PRESS.	CASING PRESSURE
		Packer	
CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.
	0	500	OK
36. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)			
TEST WITNESSED BY Fred Pool, III			
37. LIST OF ATTACHMENTS			
38. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records			
SIGNED <u>Patti Del Jones</u> TITLE <u>Secretary</u> DATE <u>8/9/80</u>			

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPPLICATE
(Other instructions on re-
verse side)Form approved,
Budget Bureau No. 42-M1424
A. LEASE DESIGNATION AND SERIAL NO.

NM 21795

B. INDIAN, ALLIANCE OR TRIBE NAME

C. UNIT AGREEMENT NAME

D. FARM OR LEASE NAME

Fremont Com Federal

E. WELL NO.

1

F. FIELD AND POOL OR WILDCAT

Unit Wildcat

G. SEC., T., R., M., OR BLK AND
SURVEY OR AREA

13-48-24E

H. COUNTY OR PARISH

I. STATE

J. DATE

K. YEAR

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT" for such proposals.)1. OIL WELL ☐ GAS WELL ☒ OTHER ☐

2. NAME OF OPERATOR

Fremont Pool Drilling Co.

3. ADDRESS OF OPERATOR

Box 1300 Clovis Star Rt. Roswell, N.M. 88201

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

39°00' N 120°00' W Sec. 13-48-24E

5. PERMIT NO.

101

6. EXPLANATION (Show whether DZ, RT, OR, etc.)

39°00' N

7.

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

NOTICE OF INTENTION TO

TEST WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐(Other) ☐PILL OR OTHER CEMENT ☐MULTIPLE COMPLETION ☐ABANDONMENT ☐CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☒(Other) ☐REPAIRING WELL ☐ALTERING CEMENT ☐ABANDONMENT ☐

8. 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.)

Sept. 23, 1980:

Perforated 3770 - 83 6 shots 1/ft

3786 - 90 5 shots 1/ft

3792-96 5 shots 1/ft

Acidized with 2500 gallons 12% HCL/3% HF with 1000 SCF/bbl N2. Flowed well back. Intend to frack well.

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

SIGNED

Frederick C. Cook

TITLE Secretary

DATE 9-27-80

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

ACCEPTED FOR RECORD

DATE

OCT 8 1980

U.S. GEOLOGICAL SURVEY
ROSWELL, NEW MEXICO

*See Instructions on Reverse Side

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir
Use "APPLICATION FOR PERMIT" for such proposals.)

1. ☐ OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR
Fred Pool Drilling Co.

3. ADDRESS OF OPERATOR
1300 Clovis Star Rt. Roswell, N.M. 88201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also p. 12 below.)
At surface
**1980 FSL, 1980 FEL of Sec. 13-65-24E
Chaves County, N.M.**

14. PERMIT NO.
194

15. ELEVATION (SL or whether DE, BL, CG, etc.)
3898.6L

5. LEASE DESIGNATION AND SERIAL NO.
N.M. 11795

6. IF INDIAN, ADDRESS OF TRIBE NAME

7. UNIT AGREEMENT NO.

8. FORM OR LEASE NAME
Grynberg-Com. Fed.

9. WELL NO.
#1

10. FIELD AND TOWN, COUNTY, STATE
Und. Wildcat

11. REC. T. R. R. OWNER AND SURVEY OR A.P.N.
13-65-24E

12. COUNTY OR PARCEL, U.S. STATE
Chaves N.M.

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

NOTICE OF INTENTION TO:			SUBSEQUENT REPORT OF:		
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	WATER SHUT-OFF	☐	REPAIRING WELL
FRACTURE TREAT	☐	MULTIPLE COMPLETE	FRACTURE TREATMENT	☒	ALTERING CASING
SHOOT OR ACIDIZE	☐	ABANDON*	SHOOTING OR ACIDIZING	☐	ABANDONING
REPAIR WELL	☐	CHANGE PLANE	(Other)	☐	
(Other)	☐			☐	

17. OTHER WORK PROPOSED OR COMPLETED: (If well is directionally drilled, give subsurface locations and measured and true vertical depths for all work - and zones perforated to this work.)

18. 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 work - and zones perforated to this work.)

9-29-80 Set retrievable bridge-plug at 3965
Perforated at 3778-3796 - 16 holes - 1 per ft.
Acidized with 2500 gallons HSR 123.

9-30-80 Used 50,000 gallons foam frac. Used 53,000 lbs.
20/40 sand. Pumped in 168bl/min down tubing and
annulus at 3200 lbs./min.
Opened up to flow back load.

RECEIVED
OCT 10 1980
U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

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

SIGNED Perry H. N. N. N. TITLE Secretary DATE 10-9-1980

(This space for Federal or State Approval, if any)

APPROVED BY P. Chester TITLE DATE

CONDITIONS OF APPROVAL, IF ANY:

OCT 15 1980

U.S. GEOLOGICAL SURVEY
ROSWell, NEW MEXICO

See Instructions on Reverse Side

SUNDY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT" for such proposals.)

1. OIL WELL ☐ GAS WELL ☒ OTHER ☐		6. IF INDIAN ALLIANCE OR TRIBE NAME	
2. NAME OF OPERATOR Fred Poll Drilling Co.		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR Box 1300 Clovis Star Rt. Roswell, N.M. 88201		8. FARM OR LEASE NAME Grynberg Cam Fed.	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1980 FSL, 1980 FEL of Sec. 13 - 6s - 24e		9. WELL NO. /1	
14. PERMIT NO. 194		15. ELEVATIONS (Show whether DP, RT, OR, etc.) 3898 6L	
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data		10. FIELD AND POOL, OR WILDCAT Und. Wildcat	
17. DESCRIBE PROMISED 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 location, and measured and true vertical depths for all markers and some pertinent to this work.)		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 13-6s-24e	
		12. COUNTY OR PARISH Dhaves	
		13. STATE NM	

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*

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

10-24-80 Set retrievable bridge-plug at 3800 ft.
Perforate at 3586-3596 and 3697-3702 10 Holes 1/min.
Used 60,000 gallons foam frac. Used 70,000 lbs. 20/40 sand. Total fluid 354 bbls. 20 ball sealers.

10-30-80 Retrieved bridge plug. Set Baker locker set packer at 4024 ft/, Otis sliding sleeve at 3994 ft. Prepared to connect to gas line when line is ready.

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

SIGNED Penny Pool-Martin TITLE Secretary
(This space for Federal or State office use)

DATE 10-27-80

APPROVED BY
CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

*See Instructions 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. 42-2344.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other ☐		5. LEASE DESIGNATION AND SERIAL NO. N.M. 11795	
2. TYPE OF COMPLETION: RAW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIVE. REBYR. ☐ Other ☐		6. IF INDIAN, ALLOTTED OR TRIBE NAME	
3. NAME OF OPERATOR Fred Pool Drilling Co.		7. UNIT AGREEMENT NAME	
8. ADDRESS OF OPERATOR Box 1300 Clovis Star Rt. Roswell, N.M. 88201		8. FARM OR LEASE NAME Grynberg-Com Federal	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At surface 1980 FSL, 1980 FEL, of Sec. 13-6S-24E At top prod. interval reported below 4355 ft. At total depth 5035 ft.		9. WELL NO. 1	
14. PERMIT NO. 194		10. FIELD AND POOL, OR WILDCAT Und. Wildcat	
DATE ISSUED 4-2-80		11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec. 13-6S-24E	
15. DATE SPUDDED 5/28/80		12. COUNTY OR PARISH Chaves	
16. DATE T.D. REACHED 7/20/80		13. STATE N.M.	
17. DATE COMPL. (Ready to prod.) 8/25/80		14. ELEVATIONS (DF, REB, RT, OR, ETC.) 3898, 68	
18. TOTAL DEPTH, MD & TVD 5035 ft.		19. ELEV. CASINGHEAD 3898	
20. PLUG BACK T.D., MD & TVD 4984 ft.		21. IF MULTIPLE COMPL., HOW MANY?	
22. INTERVALS DRILLED BY XX		23. ROTARY TOOLS CABLE TOOLS	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD) 4848-4854 - Penn at present		25. WAS DIRECTIONAL SURVEY MADE Yes	
26. TYPE ELECTRIC AND OTHER LOGS RUN Dual Laterolog Micro-SFL, Perforating Depth Control		27. WAS WELL CORRO no	
28. CASING RECORD (Report all strings set in well)			
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE
13 3/8	48#	305 ft.	17"
8 5/8"	24#	1449 ft.	11"
4 1/2	10.5#	5035 ft.	7 7/8
29. CEMENTING RECORD			
AMOUNT PULLED			
150 sx Class C			
450 Halliburton Lite			
400 Class C			
425 Class C, 425 POZ			
30. LINER RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*
31. TUBING RECORD			
SIZE	DEPTH SET (MD)	PACKER SET (MD)	
2 3/8	4804	4804	
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
DEPTH INTERVAL (MD)			
4848-4854			
AMOUNT AND KIND OF MATERIAL USED			
1600 Gal. (600 gal. HCL, 1000 Mud Acid)			
33. PRODUCTION RECORD (Interval, size and number)			
4848-4854 13 Holes 2 per ft.			
34. PRODUCTION METHOD (Flowing, gas lift, pumping, etc., and type of pump)			
Flowing			
35. DATE FIRST PRODUCTION			
8/19/80			
36. HOURS TESTED			
72			
37. CHOKER SIZE			
1500			
38. PROD'N. FOR TEST PERIOD			
0 24 500 241 0 24			
39. FLOW. TUBING PRESS.			
Packer			
40. CASING PRESSURE			
CALCULATED 24-HOUR RATE			
41. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)			
TEST WITNESSED BY			
Fre d Pool, III			
42. LIST OF ATTACHMENTS			
43. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records			
SIGNED <i>Patricia Del James</i> TITLE, Secretary			
DATE 8/9/80			

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

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and lease to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws 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. See instructions on Items 22 and 24; and 33, below regarding separate reports for separate completions. If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see Item 35.

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 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in Item 22, and in Item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in Item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for Items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
San Andres	275	1289	
Glorietta	1290	2824	
Tubb	2825	3387	
App	3388	4126	
Belcamp	4127	4354	
Shad	4355	4969	
Precambria	4970	-	

03

GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400 2500 2600 2700 2800 2900 3000 3100 3200 3300 3400 3500 3600 3700 3800 3900 4000 4100 4200 4300 4400 4500 4600 4700 4800 4900 5000 5100 5200 5300 5400 5500 5600 5700 5800 5900 6000 6100 6200 6300 6400 6500 6600 6700 6800 6900 7000 7100 7200 7300 7400 7500 7600 7700 7800 7900 8000 8100 8200 8300 8400 8500 8600 8700 8800 8900 9000 9100 9200 9300 9400 9500 9600 9700 9800 9900 10000 10100 10200 10300 10400 10500 10600 10700 10800 10900 11000 11100 11200 11300 11400 11500 11600 11700 11800 11900 12000 12100 12200 12300 12400 12500 12600 12700 12800 12900 13000 13100 13200 13300 13400 13500 13600 13700 13800 13900 14000 14100 14200 14300 14400 14500 14600 14700 14800 14900 15000 15100 15200 15300 15400 15500 15600 15700 15800 15900 16000 16100 16200 16300 16400 16500 16600 16700 16800 16900 17000 17100 17200 17300 17400 17500 17600 17700 17800 17900 18000 18100 18200 18300 18400 18500 18600 18700 18800 18900 19000 19100 19200 19300 19400 19500 19600 19700 19800 19900 20000 20100 20200 20300 20400 20500 20600 20700 20800 20900 21000 21100 21200 21300 21400 21500 21600 21700 21800 21900 22000 22100 22200 22300 22400 22500 22600 22700 22800 22900 23000 23100 23200 23300 23400 23500 23600 23700 23800 23900 24000 24100 24200 24300 24400 24500 24600 24700 24800 24900 25000 25100 25200 25300 25400 25500 25600 25700 25800 25900 26000 26100 26200 26300 26400 26500 26600 26700 26800 26900 27000 27100 27200 27300 27400 27500 27600 27700 27800 27900 28000 28100 28200 28300 28400 28500 28600 28700 28800 28900 29000 29100 29200 29300 29400 29500 29600 29700 29800 29900 30000 30100 30200 30300 30400 30500 30600 30700 30800 30900 31000 31100 31200 31300 31400 31500 31600 31700 31800 31900 32000 32100 32200 32300 32400 32500 32600 32700 32800 32900 33000 33100 33200 33300 33400 33500 33600 33700 33800 33900 34000 34100 34200 34300 34400 34500 34600 34700 34800 34900 35000 35100 35200 35300 35400 35500 35600 35700 35800 35900 36000 36100 36200 36300 36400 36500 36600 36700 36800 36900 37000 37100 37200 37300 37400 37500 37600 37700 37800 37900 38000 38100 38200 38300 38400 38500 38600 38700 38800 38900 39000 39100 39200 39300 39400 39500 39600 39700 39800 39900 40000 40100 40200 40300 40400 40500 40600 40700 40800 40900 41000 41100 41200 41300 41400 41500 41600 41700 41800 41900 42000 42100 42200 42300 42400 42500 42600 42700 42800 42900 43000 43100 43200 43300 43400 43500 43600 43700 43800 43900 44000 44100 44200 44300 44400 44500 44600 44700 44800 44900 45000 45100 45200 45300 45400 45500 45600 45700 45800 45900 46000 46100 46200 46300 46400 46500 46600 46700 46800 46900 47000 47100 47200 47300 47400 47500 47600 47700 47800 47900 48000 48100 48200 48300 48400 48500 48600 48700 48800 48900 49000 49100 49200 49300 49400 49500 49600 49700 49800 49900 50000 50100 50200 50300 50400 50500 50600 50700 50800 50900 51000 51100 51200 51300 51400 51500 51600 51700 51800 51900 52000 52100 52200 52300 52400 52500 52600 52700 52800 52900 53000 53100 53200 53300 53400 53500 53600 53700 53800 53900 54000 54100 54200 54300 54400 54500 54600 54700 54800 54900 55000 55100 55200 55300 55400 55500 55600 55700 55800 55900 56000 56100 56200 56300 56400 56500 56600 56700 56800 56900 57000 57100 57200 57300 57400 57500 57600 57700 57800 57900 58000 58100 58200 58300 58400 58500 58600 58700 58800 58900 59000 59100 59200 59300 59400 59500 59600 59700 59800 59900 60000 60100 60200 60300 60400 60500 60600 60700 60800 60900 61000 61100 61200 61300 61400 61500 61600 61700 61800 61900 62000 62100 62200 62300 62400 62500 62600 62700 62800 62900 63000 63100 63200 63300 63400 63500 63600 63700 63800 63900 64000 64100 64200 64300 64400 64500 64600 64700 64800 64900 65000 65100 65200 65300 65400 65500 65600 65700 65800 65900 66000 66100 66200 66300 66400 66500 66600 66700 66800 66900 67000 67100 67200 67300 67400 67500 67600 67700 67800 67900 68000 68100 68200 68300 68400 68500 68600 68700 68800 68900 69000 69100 69200 69300 69400 69500 69600 69700 69800 69900 70000 70100 70200 70300 70400 70500 70600 70700 70800 70900 71000 71100 71200 71300 71400 71500 71600 71700 71800 71900 72000 72100 72200 72300 72400 72500 72600 72700 72800 72900 73000 73100 73200 73300 73400 73500 73600 73700 73800 73900 74000 74100 74200 74300 74400 74500 74600 74700 74800 74900 75000 75100 75200 75300 75400 75500 75600 75700 75800 75900 76000 76100 76200 76300 76400 76500 76600 76700 76800 76900 77000 77100 77200 77300 77400 77500 77600 77700 77800 77900 78000 78100 78200 78300 78400 78500 78600 78700 78800 78900 79000 79100 79200 79300 79400 79500 79600 79700 79800 79900 80000 80100 80200 80300 80400 80500 80600 80700 80800 80900 81000 81100 81200 81300 81400 81500 81600 81700 81800 81900 82000 82100 82200 82300 82400 82500 82600 82700 82800 82900 83000 83100 83200 83300 83400 83500 83600 83700 83800 83900 84000 84100 84200 84300 84400 84500 84600 84700 84800 84900 85000 85100 85200 85300 85400 85500 85600 85700 85800 85900 86000 86100 86200 86300 86400 86500 86600 86700 86800 86900 87000 87100 87200 87300 87400 87500 87600 87700 87800 87900 88000 88100 88200 88300 88400 88500 88600 88700 88800 88900 89000 89100 89200 89300 89400 89500 89600 89700 89800 89900 90000 90100 90200 90300 90400 90500 90600 90700 90800 90900 91000 91100 91200 91300 91400 91500 91600 91700 91800 91900 92000 92100 92200 92300 92400 92500 92600 92700 92800 92900 93000 93100 93200 93300 93400 93500 93600 93700 93800 93900 94000 94100 94200 94300 94400 94500 94600 94700 94800 94900 95000 95100 95200 95300 95400 95500 95600 95700 95800 95900 96000 96100 96200 96300 96400 96500 96600 96700 96800 96900 97000 97100 97200 97300 97400 97500 97600 97700 97800 97900 98000 98100 98200 98300 98400 98500 98600 98700 98800 98900 99000 99100 99200 99300 99400 99500 99600 99700 99800 99900 100000 100100 100200 100300 100400 100500 100600 100700 100800 100900 101000 101100 101200 101300 101400 101500 101600 101700 101800 101900 102000 102100 102200 102300 102400 102500 102600 102700 102800 102900 103000 103100 103200 103300 103400 103500 103600 103700 103800 103900 104000 104100 104200 104300 104400 104500 104600 104700 104800 104900 105000 105100 105200 105300 105400 105500 105600 105700 105800 105900 106000 106100 106200 106300 106400 106500 106600 106700 106800 106900 107000 107100 107200 107300 107400 107500 107600 107700 107800 107900 108000 108100 108200 108300 108400 108500 108600 108700 108800 108900 109000 109100 109200 109300 109400 109500 109600 109700 109800 109900 110000 110100 110200 110300 110400 110500 110600 110700 110800 110900 111000 111100 111200 111300 111400 111500 111600 111700 111800 111900 112000 112100 112200 112300 112400 112500 112600 112700 112800 112900 113000 113100 113200 113300 113400 113500 113600 113700 113800 113900 114000 114100 114200 114300 114400 114500 114600 114700 114800 114900 115000 115100 115200 115300 115400 115500 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129900 130000 130100 130200 130300 130400 130500 130600 130700 130800 130900 131000 131100 131200 131300 131400 131500 131600 131700 131800 131900 132000 132100 132200 132300 132400 132500 132600 132700 132800 132900 133000 133100 133200 133300 133400 133500 133600 133700 133800 133900 134000 134100 134200 134300 134400 134500 134600 134700 134800 134900 135000 135100 135200 135300 135400 135500 135600 135700 135800 135900 136000 136100 136200 136300 136400 136500 136600 136700 136800 136900 137000 137100 137200 137300 137400 137500 137600 137700 137800 137900 138000 138100 138200 138300 138400 138500 138600 138700 138800 138900 139000 139100 139200 139300 139400 139500 139600 139700 139800 139900 140000 140100 140200 140300 140400 140500 140600 140700 140800 140900 141000 141100 141200 141300 141400 141500 141600 141700 141800 141900 142000 142100 142200 142300 142400 142500 142600 142700 142800 142900 143000 143100 143200 143300 143400 143500 143600 143700 143800 143900 144000 144100 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**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

Form approved, _____
Budget Bureau No. 42-R555.6**WELL COMPLETION OR RECOMPLETION REPORT AND LOG ***

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other _____		2. LEASE DESIGNATION AND SERIAL NO. NIP 11795																									
3. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP EN ☐ PLUG BACK ☐ REPAIR ☐ Other _____		4. IF INDIAN, ALLOTTEE OR TRIBE NAME _____																									
5. NAME OF OPERATOR Fred Pool Drilling Co.		6. UNIT AGREEMENT NAME _____																									
7. ADDRESS OF OPERATOR Box 1300 Clovis, New Mex., 88201		7. FARM OR LEASE NAME Grynbern Com Fed.																									
8. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 1980 FSL, 1980 FEL of Sec. 13-6s-24e At top prod. interval reported below 3586 FSL. At total depth 5035 FSL.		8. WELL NO. #1																									
9. PERMIT NO. 1-1		9. DATE ISSUED 4-2-80																									
10. DATE SPLICED 5-2-80		10. DATE T.D. REACHED 7-20-80																									
11. DATE COMED (Ready to prod.) 11-10-80		11. ELEVATION (OF R.M., RT. GR., ETC.) 3898 GR																									
12. TOTAL DEPTH, MD & TVD 5035		12. IF MULTIPLE COMPLEMENTS, HOW MANY? 1																									
13. PLUG, BACK T.D. MD & TVD 1980 FSL		13. INTERVALS DRILLED BY XX																									
14. PRODUCING INTERVAL(S) OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 3586-3596 1/ft., 3778-3796 SL. 1/ft., 3697-3707 1/ft.		14. ROTARY TOOLS CABLE TOOLS																									
15. TYPE ELECTRIC AND OTHER LOGS RUN Compensated Neutron-Formation Density Dual Gamma-Ray Micro-SFL, Perforating Depth Control		15. WAS DIRECTIONAL SURVEY MADE yes																									
16. CASING RECORD (Report all strings set in well)		16. WAS WELL CORED no																									
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>CASING SIZE</th> <th>WEIGHT, LB./FT.</th> <th>DEPTH SET (MD)</th> <th>HOLE SIZE</th> <th>CEMENTING RECORD</th> <th>AMOUNT PULLED</th> </tr> </thead> <tbody> <tr> <td>13 3/8</td> <td>48</td> <td>305 F.</td> <td>17"</td> <td>150 sx Class C</td> <td>Circulated</td> </tr> <tr> <td>9 5/8</td> <td>24</td> <td>149 F.</td> <td>11"</td> <td>450 Halliburton Lite</td> <td>"</td> </tr> <tr> <td>1 7/8</td> <td>10.5</td> <td>5035 F.</td> <td>7 7/8"</td> <td>100 Class C 425 Class C 425 Poz</td> <td>"</td> </tr> </tbody> </table>		CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED	13 3/8	48	305 F.	17"	150 sx Class C	Circulated	9 5/8	24	149 F.	11"	450 Halliburton Lite	"	1 7/8	10.5	5035 F.	7 7/8"	100 Class C 425 Class C 425 Poz	"		
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19. PRODUCTION																											
DATE FIRST PRODUCTION 11-5-80		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Abo Flowing																									
DATE OF TEST 11-5-80		WELL STATUS (Producing or shut-in) Shut-in																									
HOURS TESTED 72	CHOKE SIZE 0	PROD'N. FOR TEST PERIOD 0	OIL—BBL. 0																								
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE 0	GAS—MCF. 56																								
			WATER—BBL. 0																								
			OIL GRAVITY-API (CORR.)																								
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)		TEST WITNESSED BY Fred Pool, Jr.																									
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 <i>Fred Pool</i>		TITLE Secretary																									
		DATE 11-18-80																									

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

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws 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. See instructions on Items 23 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

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 10: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CORSION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES.

38. GEOLOGIC MARKERS

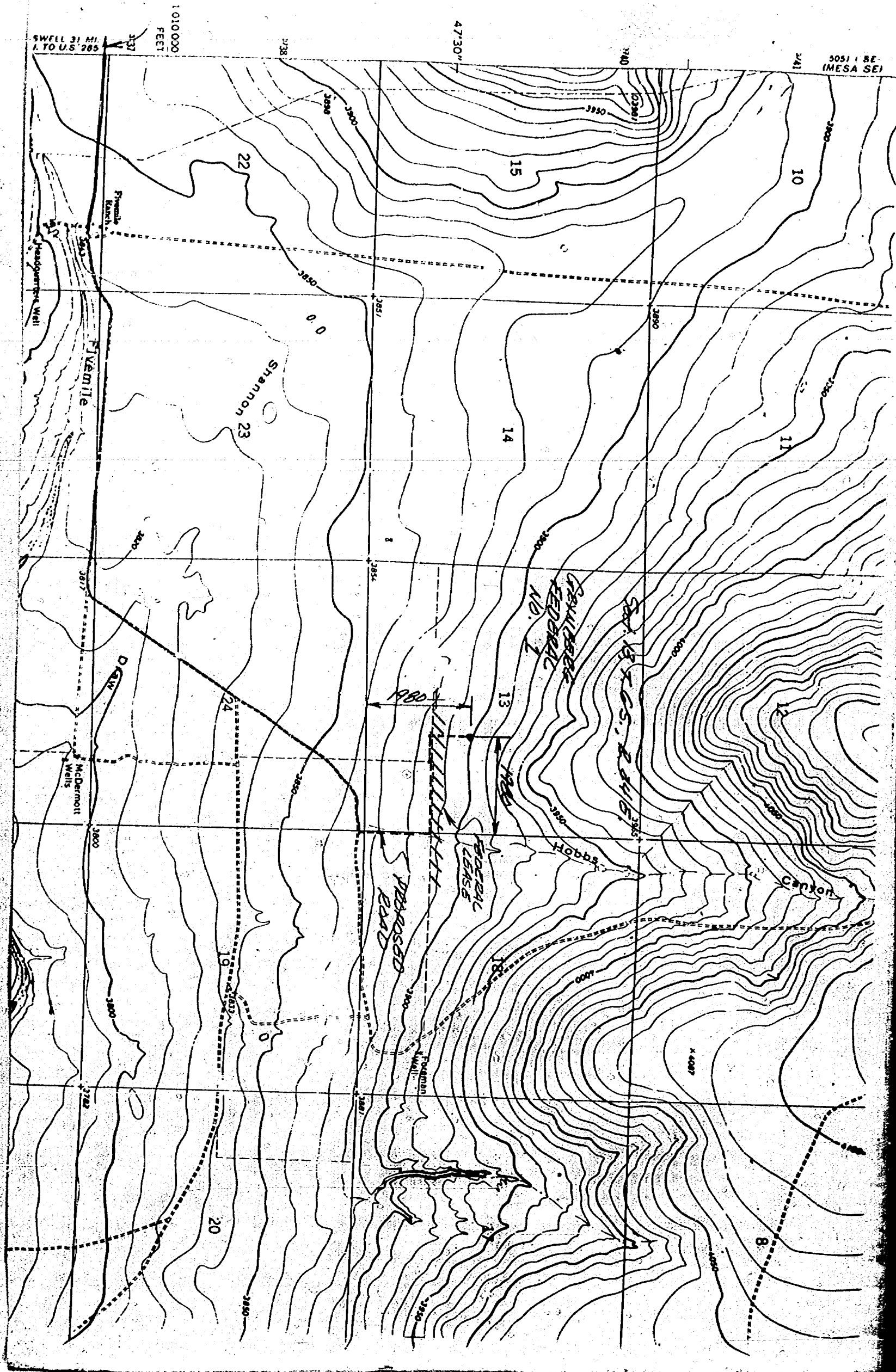
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
San Andres	275	1,119				
Glorietta	1290	2824				
Tubb	2825	3387				
Abo	3387	4126				
Wolfcamp	4127	4354				
Penn	4355	4969				
Precambria	4970	-				

FRED POOL DRILLING, INC.

Suite 437, White Building
Roswell, New Mexico 88201

WELLHEAD DESCRIPTION

<u>Quantity</u>	<u>Type</u>
1	Gulfco - 4 1/2 8rd FE x 6"/3000 G2SA tubing head assy w/2 2" LPO
2	Gulfco - 2 3/8 EUE 8rd 3000# WOG G-2 gate valve.
1	Gulfco - 2 3/8 " EU 8rd run x 2" LPO FS flow Tee.
1	2" LP inlet x 2" LPO AB-75 3000# adi choke assy.
1	2 3/8" 8rd x 12" lgth N-80Tubing nipple.
1	2 3/8" EUE 8rd Bull plug tapped 1/2"
1	50# 8M 1/2" Cemco needle valve.
1	45# LC 1/2" 3000# ashcroft pressure gauge
1	8 5/8 x 4 1/2 " type 75 Larkin casing head
1	2" xH Bull ring
1	2" B-136-CS-02 WKM ball valve.



50 SX CLASS "C" CEMENT

305' 13 3/8" SURFACE

1449' 8 5/8" CASING

305'

550 SX HILIBURTON LITE CEMENT
Top of CEMENT 2600'

5035' 4 1/2" CASING

1449'

3586
3586 > PERFORATIONS

3697
3707 > PERFORATIONS

4024' 2 3/8" TUBING

425 SX CLASS "C" + 425 POZ mix

PERFORATIONS

3778'

OTIS WIRELINE
OPERATED SLIDING
SLEEVE

3796'

3994'

BAKER LOCKSET PACKER

4024'

WELL BORE SKETCH
GRYNBERG COM. FEDERAL
1980 FEL 660' FSL
CHAVES CO. N.M.
SEC. 13 T6S R24E

PERFORATIONS

4848'

4854'

P8TD

4924'

GUIDESHOE

5035'

GENERALIZED STRATIGRAPHIC SECTION
 Grynberg Comm. Federal #1
 T6s R24e Sec. 13
 Chaves County, New Mexico

SYSTEM	SERIES	ROCK UNIT	LITHOLOGY	
PERMIAN	OCHOAN	RUSTLER		
		SALADO		
		TANSILL		
	GUADALUPIAN	YATES		
		SEVEN RIVERS		
		QUEEN		
		GRAYBURG		608'
		SAN ANDRES		
	LEONARDIAN	"GLORIETA"		1210'
		UPPER YESO		1280'
		DRINKARD		2826'
		LOWER YESO		3384'
		ABO		4354'
	WOLFCAMPIAN	HUECO		4586'
PENNSYLVANIAN	VIRGILIAN	CISCO		
	MISSOURIAN	CANYON		
	DESMOINESIAN	STRAWN		
	ATOKAN	"ATOKA"		
	MORROWAN	"MORROW"		
MISSISSIPPIAN	CHESTERAN	"CHESTER"		
	MERAMECIAN OSAGIAN KINDERHOOKIAN	MISSISSIPPIAN LIME		
DEVONIAN		WOODFORD		
SILURIAN		"UNDIFFERENTIATED SILURIAN"		
ORDOVICIAN		MONTOYA		
		SIMPSON		
		ELLENBURGER		
PRECAMBRIAN		UNNAMED		

Grynberg Comm Federal #1
 T6s R24e Sec. 13
 Chaves County , NEW MEXICO

**GENERALIZED
 STRATIGRAPHIC SECTION**



BENNETT WIRE LINE SERVICE

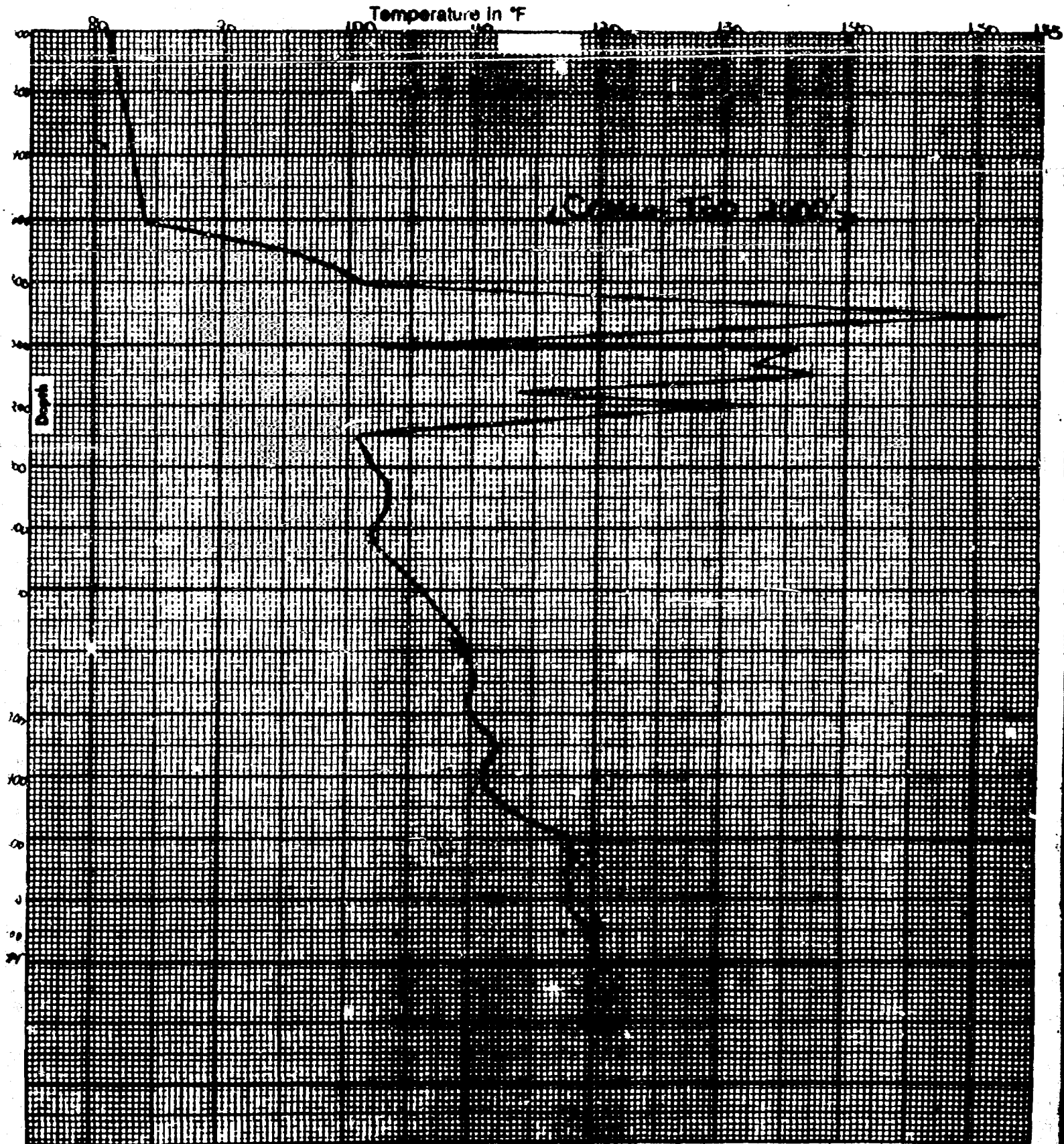
P. O. BOX 787
ARTESIA, NEW MEXICO 88210
Phone 746-3281



FRED POOL

TEMPERATURE SURVEY

OPERATOR FRED POOL
LEASE GYRNBURG FEDERAL
WELL NO. 11
FIELD NO. _____
DATE & TIME CEMENT JOB COMPLETED 7-21-80 1700 HOURS
DATE & TIME SURVEY MADE 7-22-80 0800 HOURS
SURVEY RUN BY DON BENNETT
DATUM _____
WELL DATA TOTAL DEPTH 4,984 FEET
CEMENT TOP 21600 FEET



NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 8-19-80	
Company FRED POOL				Connection TO AIR			
Pool PENN				Unit			
Completion Date 8-19-80		Total Depth 5035		Flow Back TD 4984		Elevation 3898	
Farm or Lease Name GRYNBERG COMM. FEDERAL							
Well No. 1							
Csg. Size 4 1/2	Wt. 11.60	d 4.000	Set At 5035	Perforations: From 4848 To 4854		Unit Sec. Twp. Rge. 13 6S 24E	
Thg. Size 2 3/8	Wt. 4.70	d 2.593	Set At 4804	Perforations: From OPEN To END			
Type Well - Single - Braden read - G.G. or G.O. Multiple SINGLE				Packer Set At 4804		County CHAVES	
Producing Thru TUBING		Reservoir Temp. °F 123° 4851		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2	
State NEW MEXICO							
L 4851	H 4851	Cg .669	% CO ₂ 1.417	% N ₂ 13.917	% H ₂ S	Prover	Meter Run 4"
						Taps FLANGE	

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI							1895				
1.	4 X 1.00			510	8	74	1630	71			45 MIN.
2.	4 X 1.00			530	26	70	1420	70			45 MIN.
3.	4 X 1.00			540	52	68	1128	72			60 MIN.
4.	4 X 1.00			540	68	68	965	75			60 MIN.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. F _t	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mcfd
1	4.753	64.70	523.2	.9868	1.223	1.034	384
2	4.753	118.84	543.2	.9905	1.223	1.036	709
3	4.753	169.61	553.2	.9924	1.223	1.037	1015
4	4.753	193.95	553.2	.9924	1.223	1.037	1160
5							

NO.	P _t	Temp. °F	T _t	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1	.81	534	1.59	.935	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2	.84	530	1.58	.932	Specific Gravity Separator Gas .669 XXXXXXXXXX
3	.86	528	1.58	.930	Specific Gravity Flowing Fluid XXXXXX
4	.86	528	1.58	.930	Critical Pressure 647 P.S.I.A. _____ P.S.I.A.
5					Critical Temperature 335 R _____ F

P _c 1908.2	P _c ² 3641.2	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.422$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.336$
NO.	P _t ²	P _w	P _w ²
1	1672.1	2795.9	845.3
2	1488.6	2215.5	1425.3
3	1218.1	1483.7	2157.3
4	1039.3	1080.1	2561.3
5			

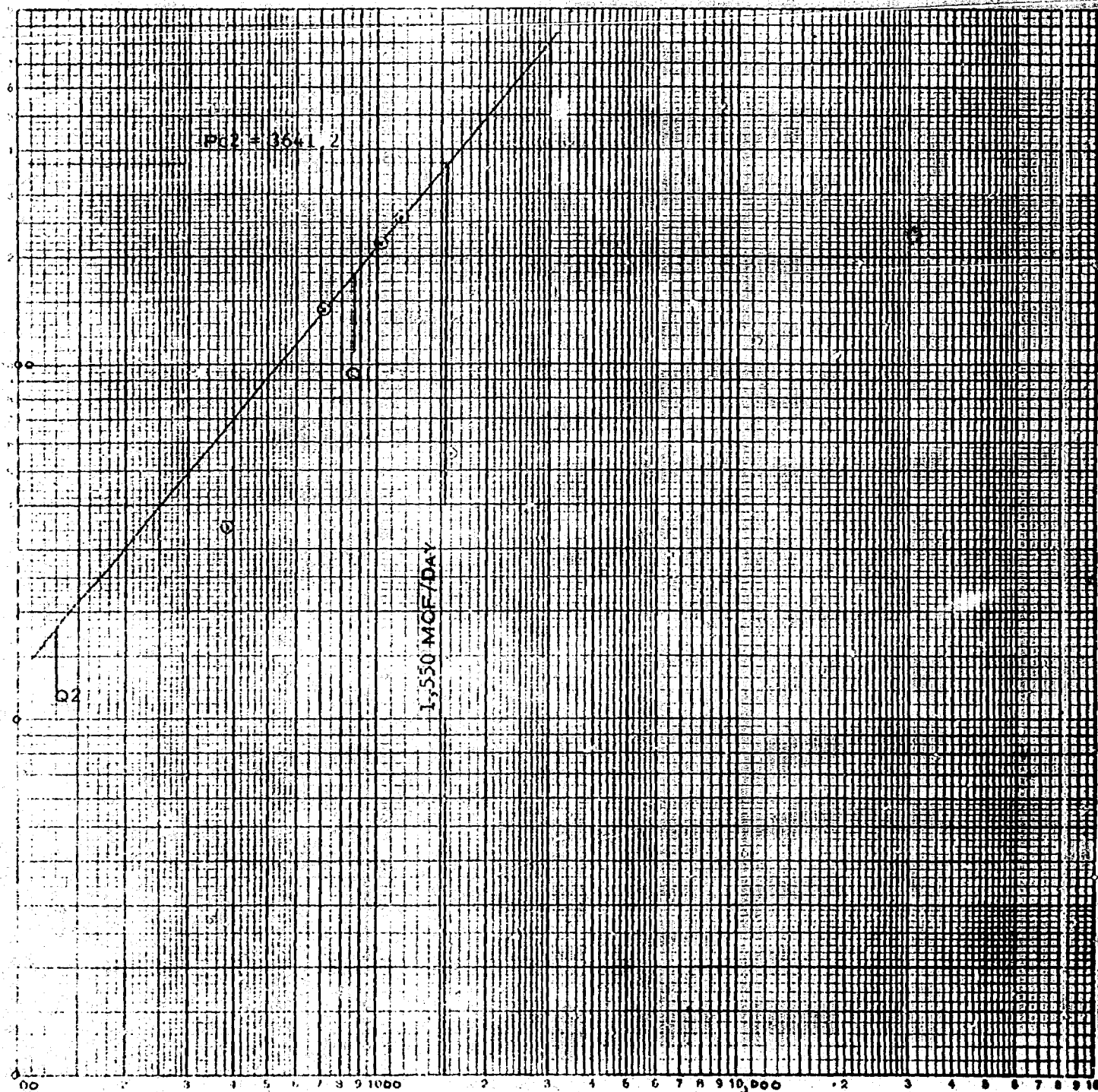
Absolute Open Flow 1.550		Mcf/d @ 15.025	Angle of Slope 50.5	Slope, n .824
Remarks:				

Approved By Commission:	Conducted By: W.S.	Calculated By: R.R.	Checked By: J.W.W.
-------------------------	---------------------------	----------------------------	---------------------------

FRED POOL
GRYNBERG COMM. FEDERAL NO. 1

$$\begin{aligned} \text{ABS (N)} &= Q1 = 867 = 2.937943 \\ Q2 &= 130 = 2.113943 \\ N &= .824000 \end{aligned}$$

$$\text{CAOF} = 1160 \frac{(3641.2)^{.824}}{(2561.1)} = 1,550 \text{ MCF/DAY}$$



Q = MCF/DAY

FROM KNOWN BOTTOM HOLE PRESSURE (P_b)

COMPANY

Red Doc

LEASE

Grynberg

WELL NO.

-DATE

8/20/88

LOCATION: Unit

Section

Section _____ Township _____

Range

4851

H
485

LH/00

599.6

7002

%N2 -

%H₂S

$$\frac{5275}{CH}$$

647
Pc

12

335

TABLE IX

TABLE IX. 6

LINE		1	2	3	4	5	6	7	8
1	T _w (W.H. • R)	534	534	534	534	534	534	534	534
2	T _s (B.H. • R)	583	583	583	583	583	583	583	583
3	T = ($\frac{T_w^2}{2} + T_s$)	559	559	559	559	559	559	559	559
4	Z (Est.)	1806	1870	1873	1878	1888	1893	1900	1905
5	TZ	483.7	485.9	487.6	490.4	495.9	498.7	502.7	505.4
6	G _H /TZ	6.71	6.68	6.66	6.62	6.54	6.51	6.46	6.42
7	e ^S (Table XIV)	1.29	1.28	1.28	1.28	1.28	1.28	1.27	1.27
8	P _i or P _s	1895.2	1895.2	1895.2	1895.2	1376.2	1376.2	1172.2	1172.2
9	P _f ² or P _s ²	3541.8	3541.8	2839.9	2839.9	1893.9	1893.9	1374.1	1374.1
10	P _c ² = P _f ² /e ^S or P _w ² = P _s ² /e ^S	2762.8	2796.1	2212.6	2215.8	1481.8	1483.9	1078.6	1080.1
11	P_w P _w	1671.2	1672.1	1487.5	1488.6	1217.3	1218.1	1038.6	1035.3
12	P • ($\frac{P_w + P_s}{2}$) or ($\frac{P_c + P_f}{2}$)	1783.2	1783.7	1586.3	1586.9	1296.8	1297.2	1105.4	1105.4
13	P _r = (P/P _c)	2.76	2.76	2.45	2.45	2.00	2.00	1.71	1.71
14	T _r = (T/T _c)	1.17	1.17	-	-	1.17	1.17	1.17	1.17

WORK SHEET FOR CALCULATION OF WELLHEAD PRESSURES (P_c or P_w)
FROM KNOWN BOTTOM HOLE PRESSURE (P_f or P_s)

Form O-122F
Adopted 9-1-65

COMPANY Freeport LEASE Bryndberg WELL NO. 1 DATE
LOCATION: Unit Section Township Range
L 4851 H 4851 LH 100 G 1665 % CO₂ % N₂ % H₂S
GH 3245 PC 647 TC 335

LINE	1	2	3	4	5	6	7	8
1	$T_w(W.H. \cdot R)$	534	534					
2	$T_s(B.H. \cdot R)$	583	583					
3	$T = \frac{T_w + T_s}{2}$	559	559					
4	Z (Est.)	.859	.862					
5	TZ	479.8	481.4					
6	GH/TZ	6.76	6.74					
7	e^s (Table XIV)	1.29	1.29					
8	P_f or P_s	2150.2	2150.2					
9	P_f^2 or P_s^2	4623.4	4623.4					
10	$P_c^2 = P_f^2/e^s$ or $P_w^2 = P_s^2/e^s$	3587.6	3590.7					
11	P_c or P_w	1869.1	1859.9					
12	$P \cdot \left(\frac{P_w + P_s}{2} \right)$ or $\left(\frac{P_c + P_f}{2} \right)$	2022.1	2022.6					
13	$P_r = (P/P_r)$	3.13	3.13					
14	$T_r = (T/T_r)$	1.17	1.17					

NEW-TEX LAB

P. O. BOX 1181
HOBBS, N.M. 88240

COPY OF ORIGINAL

No. 3825
Run No.
Date of Run. 8-18-80
Date Secured. 8-16-80

CERTIFICATE OF ANALYSIS

Fred Pool
West Engineering
412 N. Dal Paso
Hobbs, NM 88240

Grinberg Com Fed. #1

Secured by
Time

Date

FRACTIONAL ANALYSIS

Percentage Composition

MOL % LIQ. % G.P.M.

Distillate	1.412	
Residue	13.917	
Gasoline	80.447	
Gasoline	2.100	.560
Gasoline	.819	.225
Gasoline	.195	.064
Gasoline	.393	.124
Gasoline	.097	.035
Gasoline	.136	.049
Gasoline	.097	.040
Gasoline Plus	.387	.178
Total	100.000	1.275

Calc. Sp. Gr. 0.6687
Calc. A.P.I.
Calc. Vapor Press.
Sp. Gr. PSIA
Mol. Wt. 19.40

LIQUID CONTENT (GAL/MCF)

Propane Calc. G.P.M. .225
Butanes Calc. G.P.M. .188
Pentanes Plus. G.P.M. .302
Ethane Calc. G.P.M. .560
RVP Gasoline G.P.M.
B.T.U./Cu. Ft. @ 14.696 P.S.I.A.
Dry Basis 925
Wet Basis 909
Sulfur Analysis by Titration
Gr./100 Cu. Ft.
Hydrogen Sulfide
Mercaptans
Sulfides
Residual Sulfur
Total Sulfur

Deane Simpson

Checked by

Approved by

[Signature]

Additional Data and Remarks



Home Office 707 N. Leech, P.O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, TWX 910/986-0010

Company John West Engineering

Field Grynberg

Lease Comm. Fed #1

Sampling Date 8-20-80

Type of Sample Separator

WATER ANALYSIS

IONIC FORM	me/l *	mg/l *
Calcium (Ca++)	666.66	13333
Magnesium (Mg++)	83.34	1000
Sodium (Na+) (CALCULATED)	1057.60	24314
Iron (Total)		2050
Carbonate (HCO ₃ -)	0.74	45
Bicarbonate (CO ₃ -)	Not	Found
Hydroxide (OH-)	Not	Found
Sulfate (SO ₄ -)	16.16	776
Chloride (Cl-)	1790.70	63500
Total Dissolved Solids		102969
pH 9.4 @ 68°F		
Dissolved Solids on Evap. at 103°-105° C		
Hardness as CaCO ₃	750.00	37500
Carbonate Hardness as CaCO ₃ (temporary)	0.74	37
Non Carbonate Hardness as CaCO ₃ (permanent)	749.26	37463
Alkalinity as CaCO ₃	0.74	37
Specific Gravity @ 68° F	1.072	

* mg/l = milligrams per liter

* me/l = milliequivalents per liter

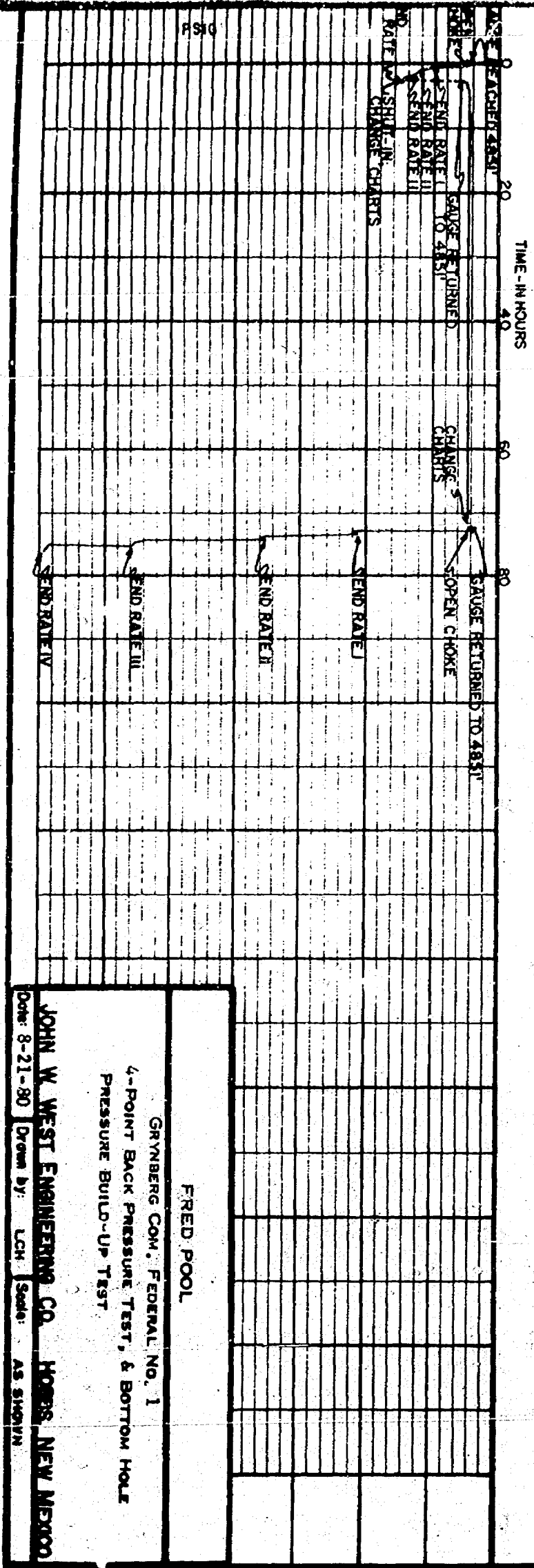
CaCO₃ S.I. negative @ 86°F (1.97)

CaCO₃ S.I. negative (0.42)

TEST DATE: August 16, to August 19, 1980
 TEST DEPTH: 4851 FEET

ELEMENT NO.: 43419
 RANGE: 0 - 3000 PSI
 CLOCK NO.: 4052
 RANGE: 12 HOURS (4-POINT)
 CLOCK NO.: E-794
 RANGE: 72 HOURS (BUILD-UP)

NOTE: SEE FOLLOWING PAGE FOR TABULATION OF TIMES AND PRESSURES.



FRED POOL
 GRYNBERG COM. FEDERAL NO. 1
 4-POINT BACK PRESSURE TEST, & BOTTOM HOLE
 PRESSURE BUILD-UP TEST
 JOHN W. WEST ENGINEERING CO. HOBBES, NEW MEXICO
 Date: 8-21-80 Drawn by: LCH Scaled: AS SHOWN

FRED POOL
 GRYNBERG COMM. FEDERAL No. 1
 4-POINT BACK PRESSURE TEST &
 BOTTOM HOLE PRESSURE BUILD-UP TEST
 TABULATION OF TIMES AND PRESSURES

TEST CONDUCTED BY:
 JOHN WEST ENGINEERING COMPANY

TEST DATE: AUGUST 16, TO AUGUST 19, 1980
 TEST DEPTH: 4851 FEET
 ELEMENT No.: 43419
 OPERATOR: M.B.

DATE	TIME	CUM. HRS. / MIN.		PSIG @ 4851 FEET
8-16-80	10:15 AM			2137 GAUGE REACHED 4851'
	10:30 AM	00 HRS.	00 MIN.	2137 OPEN CHOKE; BEGIN 4-POINT
	10:45 AM	00	15	2118
	11:00 AM	00	30	2055 END RATE I
8-16-80	11:15 AM	00	45	2034
	11:30 AM	01	00	2019 END RATE II
8-16-80	11:45 AM	01	15	2014
	12:00 NOON	01	30	2008 END RATE III
8-16-80	12:15 PM	01	45	1996
	12:30 PM	02	00	1981 END RATE IV; GAUGE OUT; CHANGE CHARTS
8-16-80	1:00 PM	02	30	2114 GAUGE RETURNED TO 4851'
	1:15 PM	02	45	2125
	1:30 PM	03	00	2127
	1:45 PM	03	15	2131
	2:00 PM	03	30	2131
	2:15 PM	03	45	2131
	2:30 PM	04	00	2131
8-16-80	3:00 PM	04	30	2134
	3:30 PM	05	00	2134
	4:00 PM	05	30	2134
	4:30 PM	06	00	2134
8-16-80	6:30 PM	08	00	2134
	8:30 PM	10	00	2137
8-17-80	1:30 AM	15	00	2137
	6:30 AM	20	00	2137
	10:30 AM	25	00	2137
	3:30 PM	30	00	2137
8-18-80	1:30 AM	40	00	2137
	11:30 AM	50	00	2137
	9:30 PM	60	00	2137
8-19-80	7:30 AM	70	00	2137
8-19-80	9:15 AM	71	45	2137 GAUGE OUT; CHANGE CHART

CONTINUED ON FOLLOWING PAGE

GRYNBERG COMM. FEDERAL No. 1
 4-POINT BACK PRESSURE TEST &
 BOTTOM HOLE PRESSURE BUILD-UP TEST
 TABULATION OF TIMES AND PRESSURES

CONTINUED FROM PRECEEDING PAGE

<u>DATE</u>	<u>TIME</u>	<u>CUM. HRS. / MIN.</u>		<u>PSIG @ 4851 FEET</u>
8-19-80	9:45 AM	72 Hrs.	15 MIN.	2137 GAUGE RETURNED TO 4851'
	10:00 AM	72	30	2137 OPEN CHOKE; BEGIN 4-POINT
	10:15 AM	72	45	1899
	10:30 AM	73	00	1870
	10:45 AM	73	15	1882 END RATE I
8-19-80	11:00 AM	73	30	1677
	11:15 AM	73	45	1662
	11:30 AM	74	00	1672 END RATE II
8-19-80	11:45 AM	74	15	1469
	12:00 NOON	74	30	1388
	12:15 PM	74	45	1369
	12:30 PM	75	00	1363 END RATE III
8-19-80	12:45 PM	75	15	1168
	1:00 PM	75	30	1164
	1:15 PM	75	45	1162
	1:30 PM	75	00	1159 END RATE IV; END 4-POINT; GAUGE OUT; END TEST

**NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL**

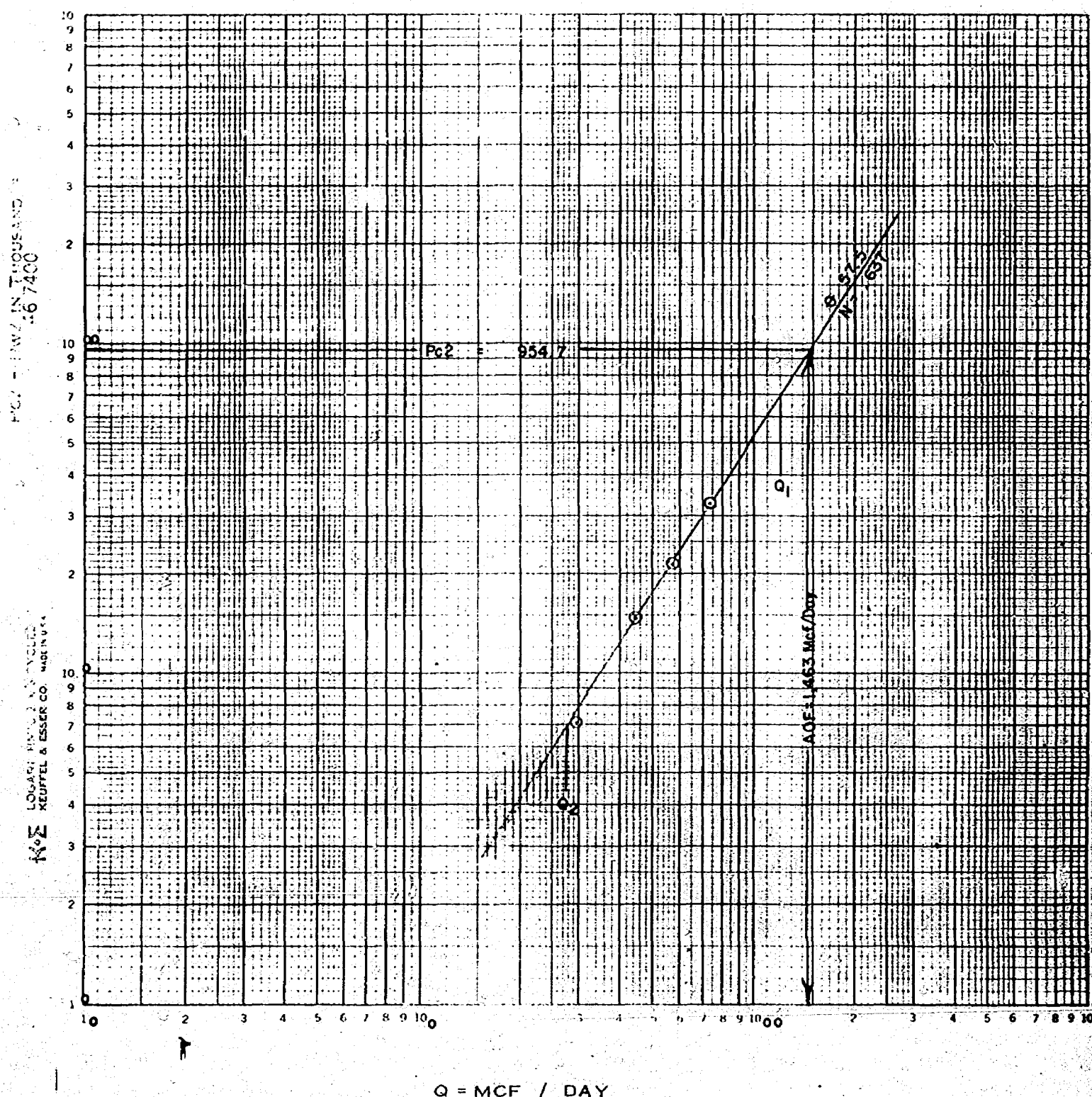
Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 10-5-80									
Company FRED POOL		To AIR									
Pool ABO		Unit									
Completion Date 10-1-80	Total Depth 5035	Perforations From 3965 To 3898	Perforations From 3778 To 3796								
Csg. Size 4 1/2	Wt. 11.6	d 4.000	Set At 5035								
Thq. Size 2 3/8	Wt. 4.70	d 2.995	Set At 3700								
Type Well - Single - Bradenhead - G.C. or G.O. Multiple SINGLE		Packer Set At 3700	County CHAVES								
Producing Thru TBG	Reservoir Temp. °F 112 @ 3787	Mean Annual Temp. °F 60	Baro. Press. - P _a 13.2								
L 3787	H 3787	G _g .677	% CO ₂ .316								
		% N ₂ 14.394	% H ₂ S -0-								
		Prover	Meter Rep. 4								
			Taps FLG								
FLOW DATA											
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. in. hw	Temp. °F	TUBING DATA Press. p.s.i.g.	Temp. °F	CASING DATA Press. p.s.i.g.	Temp. °F	Duration of Flow
1.	4	x	1.00	320	8	95	957				24 HOUR
2.	4	x	1.00	325	18	93	919				1 HOUR
3.	4	x	1.00	330	29	89	876				1 HOUR
4.	4	x	1.00	330	48	85	830				1 HOUR
5.							757				1 HOUR
RATE OF FLOW CALCULATIONS											
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F	Gravity Factor F _g	Super. Compens. Factor, F _{pv}	Rate of Flow Q, Mcfd				
1.	4.753	51.63	333.2	.9680	1.215	1.021	295				
2.	4.753	78.02	338.2	.9697	1.215	1.021	446				
3.	4.753	99.76	343.2	.9732	1.215	1.022	573				
4.	4.753	128.35	343.2	.9768	1.215	1.022	740				
5.											
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio DRY Mcf/bbl.						
1.	.52	555	1.62	.960	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.						
2.	.52	553	1.61	.959	Specific Gravity Separator Gas .677 ☒ X X X X X X X						
3.	.53	549	1.60	.958	Specific Gravity Flowing Fluid X X X X X						
4.	.53	545	1.59	.957	Critical Pressure 645 P.S.I.A. _____ P.S.I.A.						
5.					Critical Temperature 343 °R _____ °R						
P _c 977.1 P _c ² 954.7					$(1) \frac{P_c^2}{P_r^2 - P_w^2} = 2.917$ $(2) \left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 1.978$						
NO.	P _r ²	P _w	P _w ²	P _r ² - P _w ²	$\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 1.463$						
1.	*	940.4	884.4	70.3							
2.	*	898.1	806.6	148.1							
3.	*	861.3	741.8	212.9							
4.	*	792.1	627.4	327.3							
Absolute Open Flow 1,463 Mcfd @ 15.025					Angle of Slope 57.5		Slope, n .637				
Remarks: CALCULATED FROM KNOWN BOTTOM PRESSURES, MEASURED WITH A KUSTER GAUGE.											
Approved By Commission:		Conducted By: M.R.		Calculated By: R.R.		Checked By: J. W. W.					

FRED POOL
GRYNBERG No. 1

$$\begin{array}{rcl} \text{ABS (N)} & Q_1 = 1205 & = 3.081044 \\ & Q_2 = 278 & = 2.444044 \\ \hline & N & = .637000 \end{array}$$

$$\text{CAOF} = 740 \left(\frac{954.7}{327.3} \right)^{.637} = 1,463 \text{ MCF/DAY}$$



WORK SHEET FOR CALCULATION OF WELLHEAD PRESSURES (P_c or P_w)
FROM KNOWN BOTTOM HOLE PRESSURE (P_f or P_s)

Form C-122F
Adopted 9-1-65

COMPANY Feed Pool LEASE Gwynberg WELL NO. 1 DATE _____

LOCATION: Unit _____ Section _____ Township _____ Range _____

L 3287 H 3787 L/H 1.00 G .677 %CO₂ .316 %N₂ 14.394 %H₂S _____

GH 2564 PC 645 TCT 343
TABLE IX B X TABLE IX B X

LINE	1	2	3	4	5	6	7	8
1 $T_w(W.H. °R)$	534	534	534	534	534	534	534	534
2 $T_s(B.H. °R)$	572	572	572	572	572	572	572	572
3 $T = \frac{T_w + T_s}{2}$	553	553	553	553	553	553	553	553
4 Z (Est.)	.882	.887	.887	.841	.841	.845	.858	.502
5 T _Z	487.7	490.5	490.5	492.7	493.7	494.7	496.4	498.8
6 GH/T _Z	5.26	5.23	5.23	5.20	5.20	5.18	5.16	5.14
7 e^s (Table XIV)	1.22	1.22	1.22	1.22	1.22	1.21	1.21	1.21
8 P_c or P_s	1037.2	1037.2	990.2	990.2	949.2	944.2	872.2	872.2
9 P_f^2 or P_s^2	1075.8	1075.8	980.5	980.5	901.0	901.0	760.7	760.7
10 $P_c^2 = P_f^2/e^s$ or $P_w^2 = P_s^2/e^s$	883.3	884.3	805.9	806.7	741.3	741.9	626.8	622.4
11 P_c or P_w	939.8	940.4	897.8	898.1	860.9	861.3	791.7	792.1
12 $P = \left(\frac{P_w + P_s}{2} \right)$ or $\left(\frac{P_c + P_f}{2} \right)$	988.5	988.8	944.0	944.2	905.1	905.3	832.0	832.1
13 $P_f = (P/P_c)$	1.53	1.53	1.46	1.46	1.40	1.40	1.29	1.29
14 $T_f = (T/T_{ct})$	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61
15 Z (Table XI)	.887	.887	.891	.891	.845	.845	.902	.502

One copy to be filed in District Office (working copy acceptable)

WORK SHEET FOR CALCULATION OF WELLHEAD PRESSURES (P_c or P_w)
FROM KNOWN BOTTOM HOLE PRESSURE (P_f or P_s)

Form C-122F
Adopted 9-1-65

COMPANY Speed Pool LEASE Greyberg WELL NO. 1 DATE

LOCATION: Unit Section Township Range

L 3787 H 3787 L/H 1.00 G 1.672 % CO₂ % N₂ 14.394 % H₂S

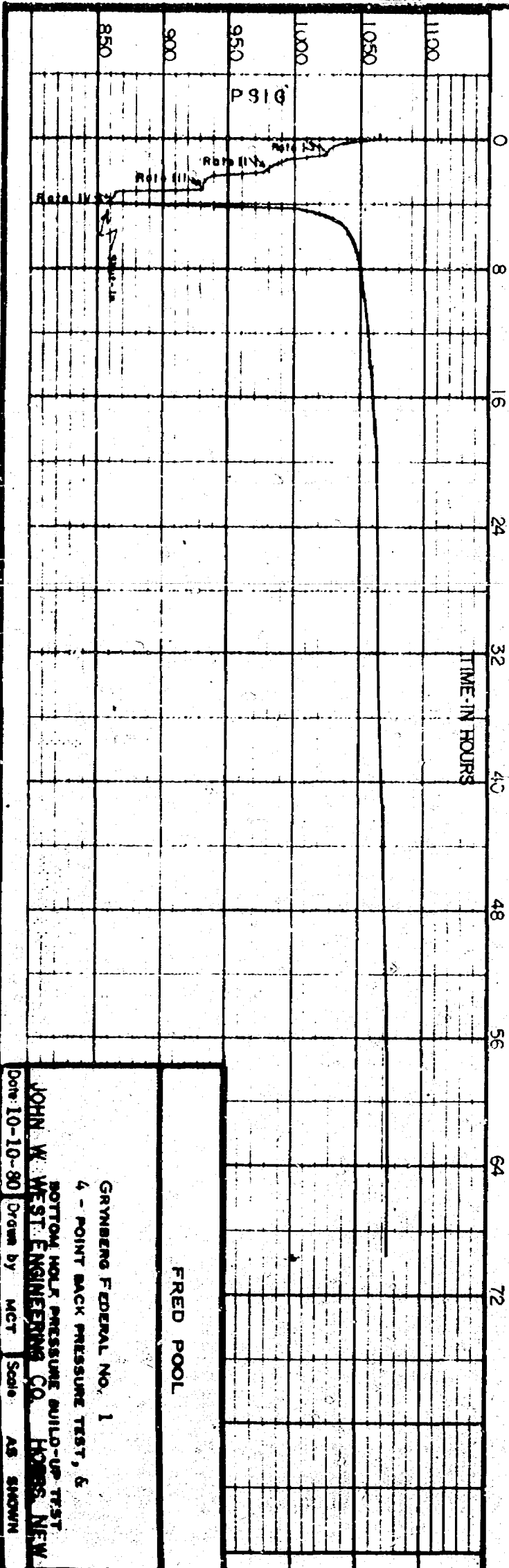
GH 2564 PCF 1.45 TCF 343
TABLE IX & X TABLE IX & X

Shubin

LINE	1	2	3	4	5	6	7	8
1	$T_w(W.H. \circ R)$	534	534					
2	$T_s(B.H. \circ R)$	572	572					
3	$T = \left(\frac{T_w + T_s}{2} \right)$	553	553					
4	Z (Est.)	.879	.883					
5	Z	1.861	4.882					
6	GH/TZ	5.27	5.25					
7	z^s (Table XIV)	1.22	1.22					
8	P_f or P_s	1078.2	1078.2					
9	P_f^2 or P_s^2	1162.5	1162.5					
10	$P_c^2 = P_f^2/es$ or $P_w^2 = P_s^2/es$	953.9	954.7					
11	P_c or P_w	976.7	977.1					
12	$P_c = \left(\frac{P_w + P_s}{2} \right)$ or $\left(\frac{P_c + P_f}{2} \right)$	1027.4	1027.7					
13	$P_f = (F/P_c)$	1.59	1.59					
14	$T_f = (T/T_c)$	1.61	1.61					
15	Z (Table XI)	1.883	1.883					

TEST DATE: 10/5THRU8/80
 TEST DEPTH: 3737
 ELEMENT NO.: 43419
 RANGE: 0 - 3000 PSI
 CLOCK NO.: E 2145
 RANGE: 72 HOURS

NOTE: SEE FOLLOWING PAGE FOR TABULATION OF TIMES AND PRESSURES.



GRIMBERG FEDERAL NO. 1
 4 - POINT BACK PRESSURE TEST, 6
 JOHN W. WEST ENGINEERING CO. HOBBS, NEW
 DATE 10-10-80 Drawn by MCT Scale AS SHOWN

**BOTTOM HOLE PRESSURE BUILD - UP TEST
TABULATION OF TIMES AND PRESSURES**

TEST DATE: 10/5-8/80
TEST DEPTH: 3787
ELEMENT NO.: 43419
OPERATOR: M.R.

DATE	TIME	CUM. HRS. / MIN.		PSIG @ 3787 FEET	
10-5-80	12:30PM			1065 GAUGE REACHED 3787	
	12:45PM	0	00	1065	
	1:00PM	0	15	1038	
	1:15PM	0	30	1030	
	1:30PM	0	45	1027	
	1:45PM	1	00	1024 END RATE I	
	2:00PM	1	15	993	
	2:15PM	1	30	986	
	2:30PM	1	45	981	
	2:45PM	2	00	977 END RATE II	
	3:00PM	2	15	939	
	3:15PM	2	30	933	
	3:30PM	2	45	931	
	3:45PM	3	00	931 END RATE III	
	4:00PM	3	15	864	
	4:15PM	3	30	863	
	4:30PM	3	45	860	
	4:45PM	4	00	859 END RATE IV	
	10-5-80	4:45PM	0	00	859 SHUT - IN , BEGIN BUILD-UP
		5:00PM	0	15	1003
		5:15PM	0	30	1018
		5:30PM	0	45	1025
		5:45PM	1	00	1034
		6:00PM	1	15	1038
6:15PM		1	30	1039	
6:30PM		1	45	1041	
6:45PM		2	00	1042	
7:00PM		2	15	1045	
7:30PM		2	45	1047	
8:00PM		3	00	1047	
8:30PM		3	30	1048	
9:00PM		4	00	1050	
10:00PM		5	00	1051	
11:00PM		6	00	1053	
10-6-80	1:00AM	8	00	1054	
	3:00AM	10	00	1057	
	8:00AM	19	00	1062	
	1:00PM	20	00	1063	
10-7-80	11:00PM	30	00	1066	
10-7-80	9:00AM	40	00	1069	
10-7-80	7:00PM	54	00	1072	
10-8-80	5:00AM	64	00	1074	
10-8-80	10:30AM	65	30	1074 END TEST	

**NEW-TEX
LAB**
P. O. BOX 1181
HOBBS, N.M. 88240

No. 4040
Run No. _____
Date of Run 10-8-80
Date Secured 10-5-80

CERTIFICATE OF ANALYSIS

Sample of Fred Pool Grynberg Federal #1
Secured from West Engineering
At 412 N. Dal Paso
Hobbs, N.M. 88240
Sampling conditions: Press _____ Date _____
Temp. _____

FRACTIONAL ANALYSIS

Percentage Composition

	MOL %	LIQ. %	G.P.M.
Carbon Dioxide	.316		
Air			
Nitrogen	14.394		
Oxygen			
Hydrogen sulfide			
Hydrogen			
Methane	78.126		
Ethane	4.100		1.093
Propane	1.662		.456
Butanes			
Iso-Butane	.258		.084
N-Butane	.588		.185
Pentanes			
Iso-Pentane	.149		.054
N-Pentane	.184		.056
Hexanes	.104		.043
Heptanes Plus	.120		.055
Octanes			
TOTAL	100.000		2.036

Calc. Sp. Gr. 0.6768
Calc. A.P.I.
Calc. Vapor Press. PSIA
Sp. Gr.
Mol. Wt. 19.60

LIQUID CONTENT (GAL/MCF)

Propane Calc. G.P.M. .456
Butanes Calc. G.P.M. .269
Pentanes Plus. G.P.M. .218
Ethane Calc. G.P.M. 1.093
RVP Gasoline G.P.M.
B.T.U./Cu. Ft. @ 14.696 P.S.I.A.
Dry Basis 956
Wet Basis 939
Sulfur Analysis by Titration
Gr./100 Cu. Ft.
Hydrogen Sulfide
Mercaptans
Sulfides
Residual Sulfur
Total Sulfur

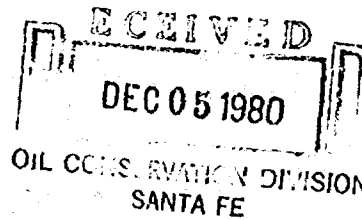
Run by Deane Simpson Checked by Approved by

Additional Data and Remarks

OIL CONSERVATION COMMISSION
Artesian DISTRICT

OIL CONSERVATION COMMISSION
BOX 2088
SANTA FE, NEW MEXICO

DATE 12-3-80



RE: Proposed MC X
Proposed DHC _____
Proposed NSL _____
Proposed SWD _____
Proposed WFX _____
Proposed FMX _____

Gentlemen:

I have examined the application dated 11-18-80
for the Fred Pool Dry Co. Greymberg Fed. Com. 11-J 13-6-24
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

Does not qualify for administrative approval
Set for Hearing

Yours very truly,

W. A. Gussott

FRED POOL DRILLING, INC.

Suite 437, White Building
Roswell, New Mexico 88201

Nov. 21, 1980

*Set for
12/30
pk9*

Mr. R. L. Stamets
P.O. Box 2088
Santa Fe, N.M. 87501

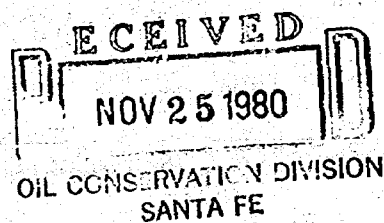
Re: Multiple Completion
Grynberg Com Federal # 1
Section 13-6S-24E
Chaves County, N.M.

Dear Sir,

Please find enclosed herewith two (2) copies of the Application for Multiple Completion for the above captioned well. I have also sent two copies to the Oil Commission office in Santa Fe and Artesia. Thanking you for your cooperation in this matter is greatly appreciated.

Sincerely,

John Klee
John Klee



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

Form C-107
5-1-61

Operator Fred Pool Jr.		County Chaves		Date 11-18-80
Address Box 1300 Clovis Star Rt. Roswell		Lease Grynberg Com Fed		Well No. #1
Location of Well	Unit J	Section 13	Township 6s	Range 24e

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.: _____

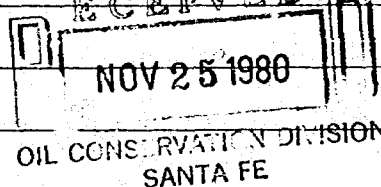
3. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Abo		Penn
b. Top and Bottom of Pay Section (Perforations)	3586' - 3586' 3697' - 3707' 3778' - 3796'		4848' - 4854'
c. Type of production (Oil or Gas)	Gas		Gas
d. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing

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

- | | | |
|-------------------------------------|--------------------------|---|
| Yes | No | |
| ☒ | ☐ | 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. |
| ☒ | ☐ | 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. |
| ☒ | ☐ | 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.* |
| ☒ | ☐ | 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:

Jack Grynberg 1050 17th Street Suite 1950 Denver, Colorado 80265



6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES X NO _____. If answer is yes, give date of such notification 11-18-80.

CERTIFICATE: I, the undersigned, state that I am the President of the Fred Pool Drilling Co. (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.

[Signature]
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.

MULTIPLE COMPLETION
(CONVENTIONAL)

P.1

Grynberg Com Federal #1
T6s R24e Sec. 13
1980 FEL 1980 FSL
Chaves County, New Mexico

- 1) Said well is to be completed as a gas-gas and the hydrocarbons from each of the zones can be safely and efficiently produced through one string of tubing and one string of casing.
- 2) The packer used to segregate the separate zones of multiple completion will be a Baker Lockset Packer and shall effectively prevent communication between the two producing zones.
- 3) The two producing zones are the ABO and Penn respectively.
- 4) Form C-107 attached hereto.
- 5) For administrative approval;

- | | |
|--------------|---|
| <u> x </u> | a) Diagrammatic sketch of the Multiple completion; |
| <u> x </u> | 1) Showing all casing strings |
| <u> x </u> | 2) Diameters and setting depths |
| <u> x </u> | 3) Centralizers and/or turbolizers and location thereof |
| <u> x </u> | 4) Quantities used and top of cement |
| <u> x </u> | 5) Perforated intervals |
| <u> x </u> | 6) Tubing strings, including diameters and setting depth |
| <u> x </u> | 7) Location of packers |
| <u> x </u> | 8) Sleeves |
| <u> x </u> | b) Plat showing the location of all wells on applicants lease |
| <u> x </u> | 1) All offset wells on offset leases |
| <u> x </u> | 2) The names and addresses of operators of leases |
| <u> x </u> | 3) Evidence that said offset operators have been furnished with copies of the application |

MULTIPLE COMPLETION
(CONVENTIONAL)

P.2

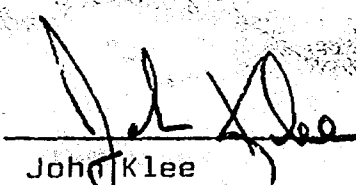
Grynberg Com Federal #1
T6s R24e Sec. 13
1980 FEL 1980 FSL
Chaves County, New Mexico

- x 4) Electrical log of the well or other acceptable log
with tops and bottoms of producing zones and
intervals of perforations indicated thereon.
- x c) Logs
 - x 1) Computer processed log.
 - x 2) Perforating depth control
 - x 3) Casing collar log and perforating record
 - x 4) Dual Laterolog Micro-SFL
- x d) Drilling status reports
 - x 1) Well completion reports

AFFIDAVIT OF MAILING OR DELIVERY

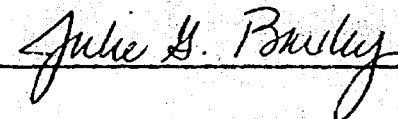
Application for Multiple Completion
Grynberg Com Federal #1
Sec. 13 T6s R24e
Chaves County, New Mexico

I hereby certify that I have this day mailed a copy of Form C-107
to Jack Grynberg, lease holder of lease No. 11795 Sec.12 T6s R24e
north offset to captioned well.


John Klee

STATE OF NEW MEXICO
COUNTY OF CHAVES

The foregoing instrument was acknowledged before me this 19th
day of November, 1980, by John Klee.


Julie H. Bawley

My commission expires

Oct. 15, 1984

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other Instructions on
reverse side)

Form Approved
Budget Bureau No. 42-R1425

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL ☒ DEEPEN ☐ PLUG BACK ☐			5. LEASE DESIGNATION AND SERIAL NO. NM-11795	
b. TYPE OF WELL OIL WELL ☐ GAS WELL ☒ OTHER ☐			6. IF INDIAN, ALLOTTEE OR TRIBE NAME ---	
2. NAME OF OPERATOR Fred Pool Drilling Company			7. UNIT AGREEMENT NAME ---	
3. ADDRESS OF OPERATOR 409 White Building, Roswell, New Mexico 88201			8. FARM OR LEASE NAME Grynberg-Com Federal	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 1980' FSL & 1980' PHL of Sec. 13 At proposed prod. zone Sairo			9. WELL NO. 1	
14. STAKE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 27 air miles north-northeast of Roswell, N. M.			10. FIELD AND POOL, OR WILDCAT Wildcat	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drg. unit line, if any) 650'			11. SEC. T., R., M., OR BLK. AND SURVEY OR AREA 13-6S-24E	
16. NO. OF ACRES IN LEASE 2360			12. COUNTY OR PARISH Chaves	
17. NO. OF ACRES ASSIGNED TO THIS WELL 320'			13. STATE N. M.	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. N.A.			19. PROPOSED DEPTH 5500 Granite Wash	
20. ROTARY OR CABLE TOOLS Rotary			21. APPROX. DATE WORK WILL START* April 15, 1980	
22. ELEVATION (Show whether DP, RT, GR, etc.) 3898 G. L.				

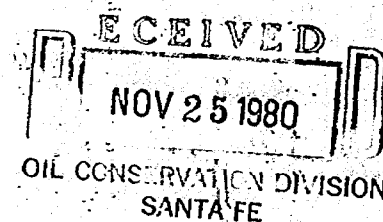
PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	48#	400' +/-	Circ.
12 1/4 or 11"	8 5/8"	24#	1500' +/-	Circ.
7 7/8"	4 1/2"	10.5#	TD	1000' above pay

Selectively perforate and treat pay zone.

Gas is not dedicated to a pipeline.

Attached are: Survey Plat (C-102)
Supplemental Drilling Data
Surface Use Plan



IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Fred Pool, Jr. TITLE Owner DATE 4-1-80
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY: _____

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

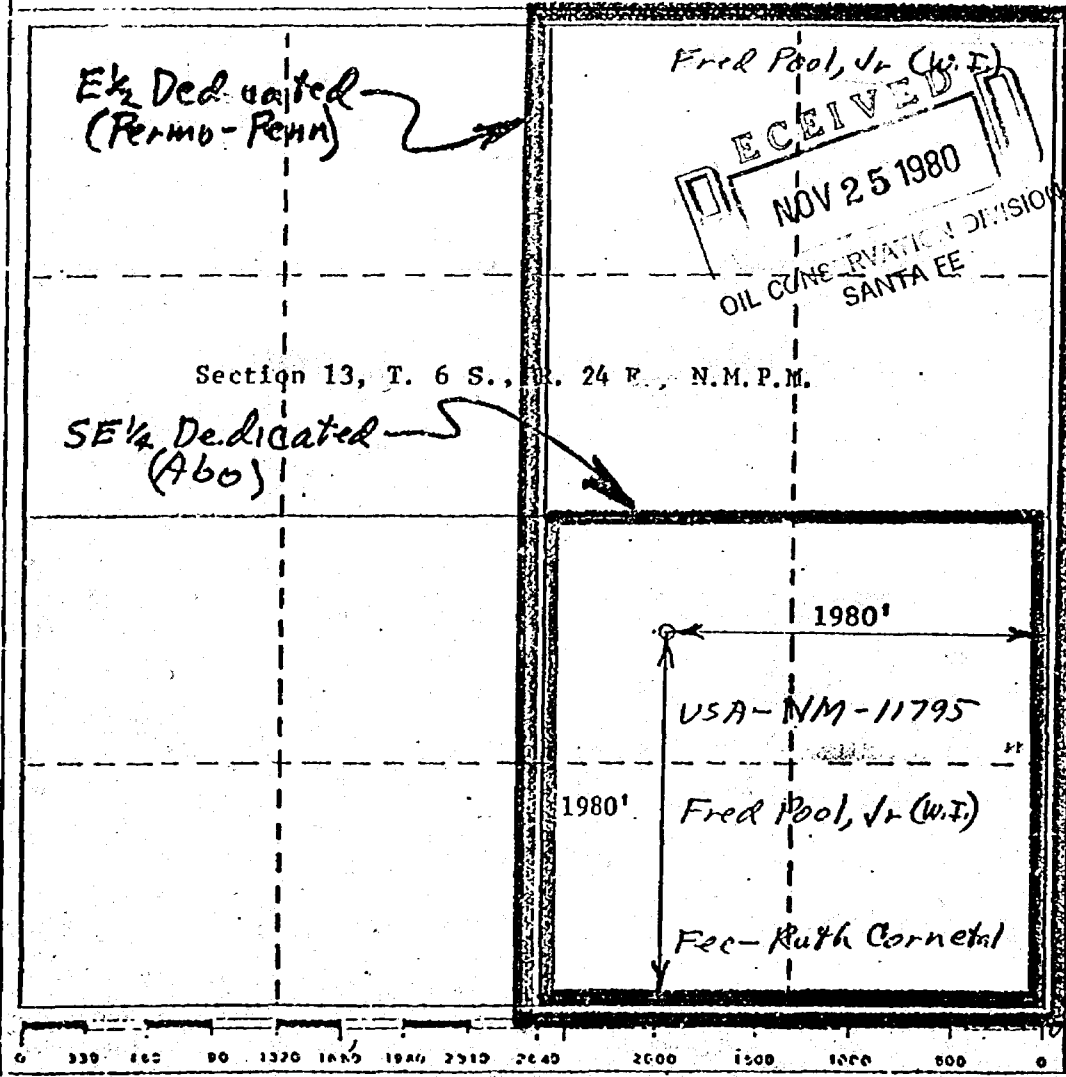
Operator Fred Pool Drlg. Co.			Lease Grynberg, Federal		Well No. 1
Unit Letter E	Section 13	Township 6S	Range 24E	County Chaves	
Actual Footage Location of Well: 1280 feet from the East line and 1980 feet from the South line					
Ground Level Elev. 3896.0	Producing Formation Penn	Pool Wildcat	Dedicated Acreage: 160 1/2 320 Perm-Penn 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 Communitization

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.

Fred Pool, Jr.

Name
Owner

Position
Fred Pool Drlg. Co.

Company
March 26, 1980

Date

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

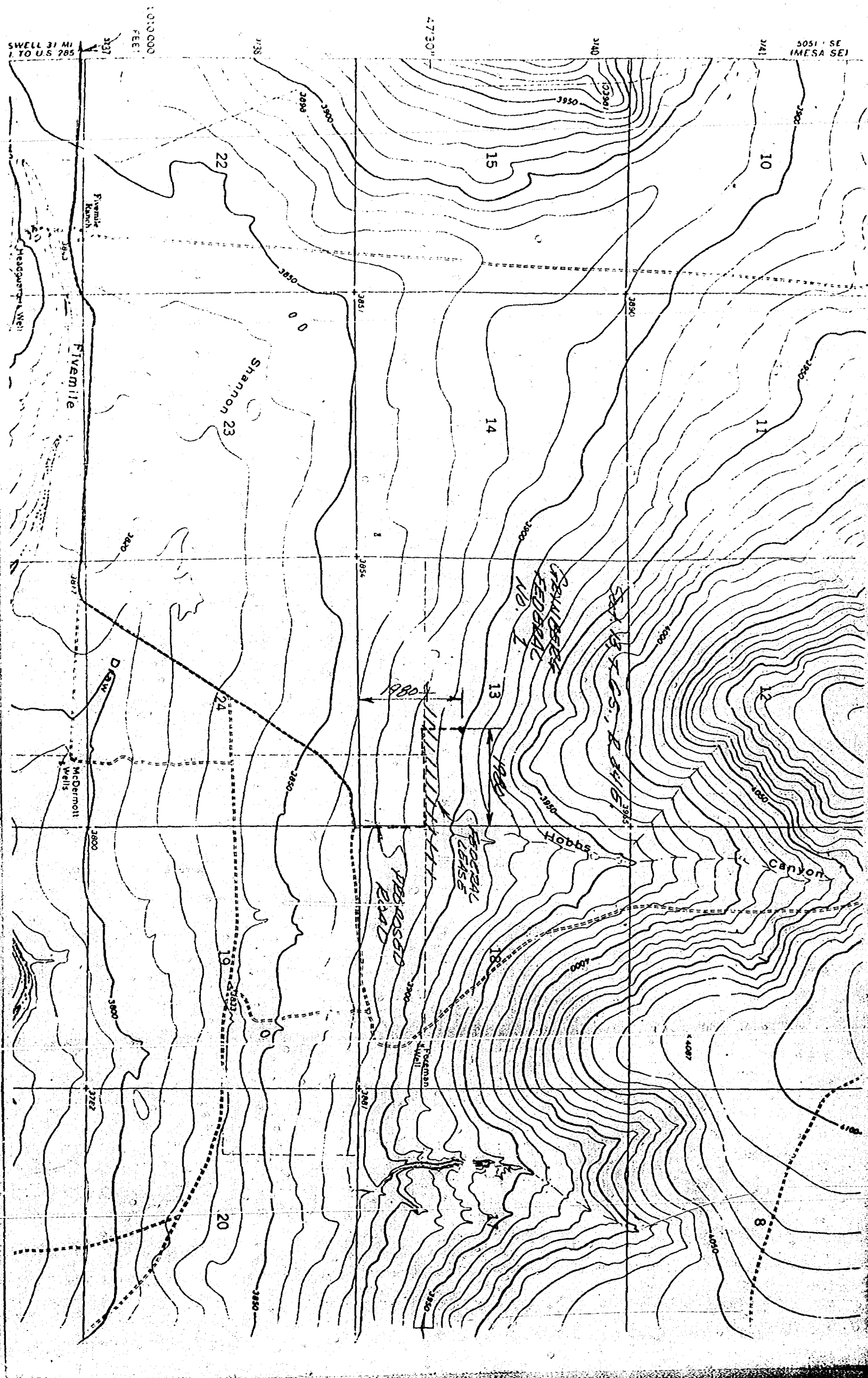
March 22, 1980

Date Surveyed
John D. Jaquess, P.E. & L.S.

Registered Professional Engineer and/or Land Surveyor

John D. Jaquess

Certificate No. **6290**



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

FORWARDER'S COPY
SUBMIT IN TRIPPLICATE
(Other Instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424
LEASE DESIGNATION AND SERIAL NO.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT" for such proposals.)

1. OIL ☐ GAS ☒ OTHER ☐
2. NAME OF OPERATOR
Fred Pool Drilling Company
3. ADDRESS OF OPERATOR
409 White Bldg., Roswell, New Mexico 88201
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)
At surface:
1980' FSL & 1980' FEL of Sec. 13
11. PERMIT NO.
12. ELEVATION (Show whether BL, RL, GR, etc.)
3898 G. L.

5. LEASE DESIGNATION AND SERIAL NO.
NM-11795
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME
Gryenberg-Com Federal
9. WELL NO.
1
10. FIELD AND POOL, OR WILDCAT
Wildcat
11. SEC., T., R., M., OR BLW. AND SURVEY OR AREA
13-6S-24E
12. COUNTY OR PARISH
Chaves
13. STATE
N. M.

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

NOTICE OF INTENTION TO:
TEST WATER SHUT-OFF ☐ FILL OR ALTER CASING ☐
FRACTURE TREATMENT ☐ SHUTTING OR PLUGGING ☐
SHOOTING OR PLUGGING ☐ ABANDONMENT* ☐
REPAIR WELL ☐ CHANGE PLANS ☒
Other: ☐
SUBSEQUENT REPORT OF:
WATER SHUT-OFF ☐ REPAIRING WELL ☐
FRACTURE TREATMENT ☐ ALTERING CASING ☐
SHOOTING OR PLUGGING ☐ ABANDONMENT* ☐
(Other) ☐
(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.)

The rotary rig, which was scheduled to drill this well, has been delayed with a fishing job on another well; and as we plan to be drilling over May 31, 1980, the lease expiration date, it may be necessary, that we drill with a cable tool rig until the rotary rig becomes available.

Anticipated spud date is May 28, 1980.

RECEIVED
NOV 25 1980
OIL CONSERVATION DIVISION
SANTA FE

RECEIVED
MAY 21 1980
U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

18. I hereby certify that the foregoing is true and correct
SIGNED James A. Knaut TITLE Agent DATE May 19, 1980
(This space for Federal or State office use)
APPROVED BY James A. Knaut TITLE Agent DATE MAY 21 1980
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPPLICATE
(Other instructions on re-
verse side)Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

N.M. 11795

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. PART OR LEASE NAME

Grynberg-Com Fed

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR B.L. AND
SURVEY OR AREA

13-65-24E

12. COUNTY OR PARISH

Chaves

13. STATE

N.M.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT" for such proposals.)1. ☐ OIL
WELL ☐ GAS
WELL ☒ OTHER

2. NAME OF OPERATOR

Fred Pool Drilling Co.

3. ADDRESS OF OPERATOR

409 White Bldg., Roswell, N.M. 80501
BARTESIA, NEW MEXICO4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)

At surface

1980° FSL & 1980 FEL of Sec. 13

14. PERMIT NO.

15. ELEVATION (Show whether DE, RT, GR, etc.)

3898 S.L.

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)

FILL 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*

Surface casing

(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 perti-
nent to this work.)

June 3, 1980

Ran 305 feet of 13 3/8" surface casing 48% H&L 8rd ST&C

Cemented with 150 sx Class C Cement

Cement circulated.

Plugged down 2:00 p.m.

M.O.C. 6-4-80 and 6-5-80

RECEIVED
NOV 25 1980
OIL CONSERVATION DIVISION
SANTA FE

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

SIGNED

Rue Jones

TITLE Secretary

DATE 6-5-80

(This space for Federal or State office use)

ACTING DISTRICT ENGINEER

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

DATE JUN 06 1980

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE
(Other instructions on re-
verse side)Form approved.
Budget Bureau No. 42-R1424.
5. LEASE DESIGNATION AND SERIAL NO.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT" for such proposals.)

1. OIL WELL ☒ GAS WELL ☒ OTHER ☐	2. NAME OF OPERATOR Fred Pool Drilling Co.	3. ADDRESS OF OPERATOR 437 White Bldg. Roswell, N.M. 88201	4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1980 FSL ; 1980 FEL of Sec. 13-6S- 24E Chaves County, N.M.	5. LEASE DESIGNATION AND SERIAL NO. N.M. 11795	6. IF INDIAN, ALLOTTEE OR TRIBE NAME	7. UNIT AGREEMENT NAME	8. FARM OR LEASE NAME Grynberg-Comm Federal	9. WELL NO. 1	10. FIELD AND POOL, OR WILDCAT Und. Wildcat	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 13-6S-24E	12. COUNTY OR PARISH Chaves	13. STATE N.M.
14. PERMIT NO. 194	15. ELEVATIONS (Show whether DF, RT, OR, etc.) 3898. OL											

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
LAST WATER SHUT-OFF	☐	WATER SHUT-OFF	☐
FRACTURE TREAT	☐	FRACTURE TREATMENT	☐
SHOOT OR ACIDIZE	☐	SHOOTING OR ACIDIZING	☐
REPAIR WELL	☐	(Other) Intermediate casing	☐
(Other)	☐	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	☐

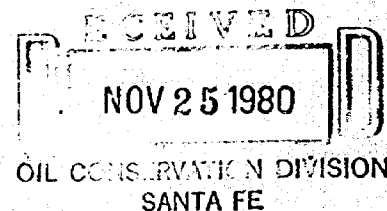
16. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to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

June 8, 1980

Set 1449 Ft. new 24" 8 5/8 casing. Cemented with 550 sx cement:
(450 Halliburton Lite, 100 sx Class C). Cement circulated. Plug
down at 9: a.m.

W O C 24hrs. Tested B O P and casing to 500' for 30 minutes.
No pressure drop.

Started drilling at 2 p.m. July 9, 1980



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

SIGNED <u>Patti Jones</u>	TITLE <u>Secretary</u>	DATE <u>7-11, 1980</u>
(This space for Federal or State office use)		
APPROVED BY <u>PETER W. CHESTER</u>	TITLE <u>ACTING DISTRICT ENGINEER</u>	DATE <u>JUL 17 1980</u>
CONDITIONS OF APPROVAL, IF ANY:		

*See Instructions on Reverse Side

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT..." for such proposals.)

1. ☐ OIL WELL ☐ GAS WELL ☐ OTHER		7. UNIT AGREEMENT NAME	
2. NAME OF OPERATOR Fred Pool Drilling Co.		8. FARM OR LEASE NAME Ryndberg-Com-Federal	
3. ADDRESS OF OPERATOR 157 White Ldg. Raleigh, N.C. 27601		9. WELL NO. 1	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also Space 17 below.) AT SURFACE 1388 E. 1: 1389 E. 2 of 13-65-24E Chaves County, N.M.		10. FIELD AND POOL, OR WILDCAT Und. wildcat	
11. PERMIT NO. 17		11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA 13-65-24E	
12. CITIES (Show whether DE, RT, ON, etc.) ALBUQUERQUE, NM		12. COUNTY OR PARISH 13. STATE Chaves N.M.	

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
1. TEST WATER SHUT-OFF	FULL OR A LATER CASING	WATER SHUT-OFF	REPAIRING WELL
FRACTURE TREAT	MULTIPLE COMPLETE	FRACTURE TREATMENT	ALTERING CASING
HOOT OR ACIDIZE	ABANDON*	SHOOTING OR ACIDIZING	ABANDONMENT*
PLUG A WELL	CHANGE PLANS	(Other) 1 1/2" Casing	
(Other)			

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

1973

10.5 feet of F₁, 10.5, 1/2" casing

filled with 425 cc Class C and 425 cc PCZ mix.

net 115g pk. call 1-800-350-5858

n. Top 2600 ft by capture survey.

Flag down 5:27 p.m. July 21, 1980

Collection: 5055

Plot 261 4591

intent to Perforate and Acidize.

RECEIVED
NOV 25 1980
OIL CONSERVATION DIVISION
SANTA FE

RECEIVED

JUL 24 1980

U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

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

SIGNED SECRETARY TITLE Secretary DATE 7-23, - 80

(This space for Federal or State office use)

APPROVED BY (Orig. SGL) PETER W. CHESTER TITLE 1-170 DISTRICT ENGINEER DATE JUL 25 1980

CONDITIONS OF APPROVAL, IF ANY:

***See Instructions on Reverse Side**

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPPLICATE*
(Other instructions on re-
verse side)Form approved.
Budget Bureau No. 42-R1421

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT" for such proposals.)

1. ☐ OIL WELL ☐ GAS WELL ☒ OTHER	5. LEASE DESIGNATION AND SERIAL NO. 11735
2. NAME OF OPERATOR Fred Pool Drilling Co.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 437 White Bldg. Roswell, N.M. 88201	7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1330 EOL, 1280 EOL, 13-6, -24E Chaves County, N.M.	8. FARM OR LEASE NAME Crynberg-Cam Fed.
14. PERMIT NO. 134	9. WELL NO. 1
15. ELEVATIONS (Show whether OF, BY, OR, etc.) 3332. 01	10. FIELD AND POOL, OR WILDCAT Und. Wildcat
	11. SEC., T., R., W., OR BLK. AND SURVEY OR AREA 13-53-24E
	12. COUNTY OR PARISH Chaves
	13. STATE N.M.

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

NOTICE OF INTENTION TO:

VERY WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR AGENT CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) XXXXXX Acid Report

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(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.)

Drilled from 4848-48 - 13 holes - 2 per foot.

Acidized with 1600 gal. (500 15' HCL and 1000 gal mud acid.)
mud acid = 3.5 * 12' HCL

1000 cubic feet R2.

Set 2 3/8 at 4084 with ABC Packer

1500 Sulfo variable choke.

Cleaned up and prepare to test well with 4 point test!

RECEIVED
NOV 25 1980
OIL CONSERVATION DIVISION
SANTA FEU.S. GEOLOGICAL SURVEY
ALBUQUERQUE, NEW MEXICO

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

SIGNED

TITLE

Secretary

DATE 8/18/80

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

ACCEPTED FOR RECORD

DATE

*See Instructions on Reverse Side

AUG 25 1980
K-E. Sayles
U.S. GEOLOGICAL SURVEY
ROSWELL, NEW MEXICO

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other in-
structions on
reverse side)Form approved,
Budget Bureau No. 42-R355.6.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other _____		5. LEASE DESIGNATION AND SERIAL NO. N.M. 11795	
b. TYPE OF COMPLETION: NEW WELL ☐ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESER. ☐ Other _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Fred Pool Drilling Co.		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR Box 1400 Clovis Star Rt. Roswell, N.M. 88201		8. FARM OR LEASE NAME Srynberg-Com Federal	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 1980 FSL, 1980 FSL, of Sec. 13-65-24E At top prod. interval reported below 4305 ft. At total depth 5035 ft.		9. WELL NO. 1	
14. PERMIT NO. 194		DATE ISSUED 4-2-80	
15. DATE SPUDDED 5/28/80		16. DATE T.D. REACHED 7/20/80	
17. DATE COMPL. (Ready to prod.) 8/25/80		18. ELEVATIONS (OF, RKB, RT, OR, ETC.)* 3898. 63'	
19. ELEV. CASINGHEAD 3898		20. TOTAL DEPTH, MD & TVD 5035 ft.	
21. PLUG, BACK T.D., MD & TVD 4984 ft.		22. IF MULTIPLE COMPL., HOW MANY*	
23. INTERVALS DRILLED BY XX		ROTARY TOOLS CABLE TOOLS	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 4848-4854 ft. Penn. prod.		25. WAS DIRECTIONAL SURVEY MADE Yes	
26. TYPE ELECTRIC AND OTHER LOGS RUN Dual Lateralog, Micro-SFL, Perforating Depth Control		27. WAS WELL CORDED NOV 25 1980	
28. CASING RECORD (Report all strings set in well)			
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE
13 3/8	78	305 ft.	17"
8 5/8	24	1445 ft.	11"
7 1/2	19.5	5035 ft.	7 7/8
CEMENTING RECORD			
150 sx Class C			
450 Halliburton Lite			
100 Class C			
425 Class C, 425 PCZ			
29. LINER RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*
2 3/8	4804	4804	
30. TUBING RECORD			
SIZE	DEPTH SET (MD)	PACKER SET (MD)	
2 3/8	4804	4804	
31. PERFORATION RECORD (Interval, size and number)			
4848-4854 13 Holes 2 per ft.			
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
DEPTH INTERVAL (MD)			
4848-4854v 1500 Gal. (600 gal 15% HCL, 1000 mud Acid)			
33. PRODUCTION Penn. at present			
DATE FIRST PRODUCTION			
PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing			
WELL STATUS (Producing or shut-in) Shut-In			
DATE OF TEST 8/19/80	HOURS TESTED 72	CHOKE SIZE	PROD'N. FOR TEST PERIOD
FLOW. TUBING PRESS.	CASING PRESSURE Packer	CALCULATED 24-HOUR RATE	OIL—BBL. 0
GAS—MCF. 500 OK			
WATER—BBL. 0 OK			
OIL GRAVITY-API (CORR.)			
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)			
TEST WITNESSED BY Fred Pool, III			
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 <u>Patti Hel Jones</u> TITLE <u>Secretary</u> DATE <u>8/9/80</u>			

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPPLICATE
(Other instructions on re-
verse side)

Form approved,
Budget Bureau No. 42-R1421
LEASE DESIGNATION AND SERIAL NO.
BM 11795
B. INDIAN, ALLOTTEE OR THIRD PARTY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT" for such proposals.)

1. ☐ OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR
Free Pool Drilling Co.

3. ADDRESS OF OPERATOR
Box 1300 Clovis Star Rt. 2, Roswell, N.M. 80201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)
At surface
1980 FSL 1980 FEL; Sec. 13-5, S-24E

14. PERMIT NO.
101

15. ELEVATIONS (Show whether DT, RT, CR, etc.)
2000.00

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Pemburg Com Federal

9. WELL NO.
1

10. FIELD AND FOO, OR WILDCAT
Wild Wildcat

11. SEC., T., R., M., OR BLK AND
SURVEY OR AREA
13-5S-24E

12. COUNTY OR PARISH
Chaves

13. STATE
N.M.

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

NOTICE OF INTENTION TO		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	☐	WATER SHUT-OFF	☐
FRACURE TREAT	☐	FRACURE TREATMENT	☐
SHOOT OR ACIDIZE	☐	SHOOTING OR ACIDIZING	☒
REPAIR WELL	☐	(Other)	☐
Other	☐	REPAIRING WELL	☐
PULL OR ALTER CASING	☐	ALTERING CASING	☐
MULTIPLE COMPLETION	☐	ABANDONMENT	☐
ABANDON	☐		
CHANGE PLANS	☐		

(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.)

Sept. 23, 1980:

Perforated 3775 - 83	6 shots	1/ft
3786 - 90	5 shots	1/ft
3792-96	5 shots	1/ft

RECEIVED
NOV 25 1980
OIL CONSERVATION DIVISION
SANTA FE

Acidized with 2500 gallons 12% HCL/3% HF with 1000 SCF/bbl N2. Flowed well back. Intend to frac well.

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

SIGNED Steve Paul TITLE Secretary DATE 9-27-80

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____
CONDITIONS OF APPROVAL, IF ANY:

Please advise as to results of this work.

*See Instructions on Reverse Side

ACCEPTED FOR RECORD
DATE OCT 8 1980
U.S. GEOLOGICAL SURVEY
ROSWELL, NEW MEXICO

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT" for such proposals.)

1. ☐ OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR
Fred Pool Drilling Co.

3. ADDRESS OF OPERATOR
1300 Clovis Star Pl. Roswell, N.M. 88201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also § 17 below.)
**1980 FSL, 1980 FEL of Sec. 13-65-24E
Chaves County, N.M.**

14. PERMIT NO.
194

15. ELEVATION (SL) or whether DE, RL, OR, etc.)
3898.6L

5. WELL NO.
11795

6. IF INDIAN, ALGONQUIN, OR OTHER NAME

7. UNIT OR TEST NAME

8. FORM OF LEASE NAME
Grynberg-Conn. Fed.

9. WELL NO.
11

10. FIELD AND COUNTY
Und. Wildcat

11. REG. F.R.M. NO. OF FIELD AND SURVEY OR A.D.A.
13-65-24E

12. COUNTY OR PARCEL ID STATE
Chaves N.M.

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	PULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING WELL
FRACURE TREAT	MULTIPLE COMPLETE	FRACURE TREATMENT	ALTER N. CASING
SHOOT OR ACIDIZE	ABANDON*	SHOOTING OR ACIDIZING	ABANDON WELL
REPAIR WELL	CHANGE PLANS	(Other)	

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 marks and zones pertinent to this work.)

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

9-29-80 Set retrievable bridge-plug at 3965
Perforated at 3778-3796 - 16 holes - 1 per ft.
Acidized with 2500 gallons MSR 123.

9-30-80 Used 50,000 gallons foam frac. Used 53,000 lbs.
20/40 sand. Pumped in 168bl/min down tubing and OIL annulus at 3200 lbs./min.
Opened up to flow back load.

NOV 25 1980

OIL CONSERVATION DIVISION
SANTA FE

RECEIVED

OCT 10 1980

U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

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

SIGNED Perry A. L. N. M. TITLE: Secretary

DATE 10-9-1980

(This space for Federal or State Approval)

APPROVED BY P. Chester

CONDITIONS OF APPROVAL, IF ANY

OCT 15 1980

U.S. GEOLOGICAL SURVEY
ROSWELL, NEW MEXICO

See Instructions on Reverse Side

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT" for such proposals.)

1. ☐ OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR
Fred Poll Drilling Co.

3. ADDRESS OF OPERATOR
Box 1300 Clovis Star Rt. Roswell, N. M. 88201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface
1980 FSL, 1980 FEL of Sec. 13 - 6s - 24e

14. PERMIT NO.
194

15. ELEVATIONS (Show whether DE, RT, OR, etc.)
3898 GL

5. LEASE DESIGNATION AND SERIAL NO.
N M 11795

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Grynberg Com Fed.

9. WELL NO.
71

10. FIELD AND POOL, OR WILDCAT
Und. Wildcat

11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA
13-6s-24e

12. COUNTY OR PARISH
Dhaves

13. STATE
NM

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☒	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)	☐		
(Other)	☐						

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.)

10-24-80 Set retrievable bridge-plug at 3800 ft.
Perforated at 3586-3596 and 3697-3707 10 holes 1/min.
Used 60,000 gallons foam frac. Used 70,000 lbs. 20/40 sand. total fluid 354 bbls. 20 ball sealers.

10-30-80 Retrieved bridge plug. Set Baker locker set packer at 4024 ft/, Otis sliding sleeve at 3994 ft. Prepared to connect to gas line when line is ready.

NOV 25 1980
OIL CONSERVATION DIVISION
SANTA FE

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

SIGNED Penny Pool Martin TITLE Secretary DATE 10-27-80
(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions 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-R855.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other _____		5. LEASE DESIGNATION AND SERIAL NO. N.M. 11795	
2. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Fred Pool Drilling Co.		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR Box 1300 Clovis Star Rt. Roswell, N.M. 88201		8. FARM OR LEASE NAME Grynberg-Com Federal	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 1980 FSL, 1980 FEL, of Sec. 13-65-24E At top prod. interval reported below 4355 ft. At total depth 5035 ft.		9. WELL NO. 1	
14. PERMIT NO. 194		10. FIELD AND POOL, OR WILDCAT Und. Wildcat	
DATE ISSUED 4-2-80		11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec. 13-65-24E	
15. DATE SPUDDED 5/28/80		12. COUNTY OR PARISH Chaves	
16. DATE T.D. REACHED 7/20/80		13. STATE N.M.	
17. DATE COMPL. (Ready to prod.) 8/25/80		18. ELEVATIONS (of, sub, etc., etc.) 3898	
19. ELEV. CASINGHEAD 3898		20. TOTAL DEPTH, MD & TVD 5035 ft.	
21. PLUG, BACK T.D., MD & TVD 4984 ft.		22. IF MULTIPLE COMPL., HOW MANY?	
23. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 4848-4854 Penn at present		24. INTERVALS DRILLED BY NOV 25 1980	
25. TYPE ELECTRIC AND OTHER LOGS RUN Dual Laterolog Micro-SFL, Perforating Depth Control		26. WAS DIRECTIONAL SURVEY MADE Yes	
27. WAS WELL CORED no		28. CEMENTING RECORD	
29. CASING RECORD (Report all strings set in well)		AMOUNT PULLED	
Casing Size		Weight, lb./ft.	
13 3/8		48#	
8 5/8		24#	
4 1/2		10.5#	
Depth Set (MD)		Hole Size	
305 ft.		17"	
1449 ft.		11"	
5035 ft.		7 7/8"	
30. LINER RECORD		31. TUBING RECORD	
Size		Top (MD)	
Bottom (MD)		Sacks Cement*	
Screen (MD)		Size	
Depth Set (MD)		Packer Set (MD)	
2 3/8		4804	
4804		4804	
32. PERFORATION RECORD (Interval, size and number) 4848-4854 13 Holes 2 per ft.		33. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
Depth Interval (MD)		Amount and Kind of Material Used	
4848-4854		1600 Gal. (600 gal. 15% HCL, 1000 Mud Acid)	
34. DATE FIRST PRODUCTION 8/19/80		35. PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing	
36. HOURS TESTED 72		37. CHOKER SIZE 1500	
38. PROD'N. FOR TEST PERIOD 0		39. OIL—BBL. 500	
40. GAS—MCF. 0		41. WATER—BBL. 0	
42. OIL GRAVITY API (CORR.) 21		43. TEST WITNESSED BY Fred Pool, III	
44. LIST OF ATTACHMENTS		45. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records	
SIGNED <i>Patricia Del James</i>		TITLE Secretary	
DATE 8/9/80		DATE 8/9/80	

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

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws 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. See instructions on items 22 and 24; and 33, below regarding separate reports for separate completions. If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

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 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in Item 22, and in Item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in Item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

32

GEOLOGIC MARKERS

FORMATION	TOP		DESCRIPTION, CONTENTS, ETC.	TOP	
				NAME	MEAS. DEPTH
San Andres	275	1289			
Glorietta	1290	2824			
Hubb'	2825	3387			
App	3388	4126			
Holtsamp	4127	4354			
ann	4355	4969			
PreCambria	4970	-			

**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*

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER ☐		5. LEASE DESIGNATION AND SERIAL NO. NO. 11795	
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP EN ☐ PLUG BACK ☐ DIFF. RESTR. ☐ OTHER ☐		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
7. NAME OF OPERATOR Fred Pool Drilling Co.		7. UNIT AGREEMENT NAME	
8. ADDRESS OF OPERATOR Box 1300 Clovis near N.E. Roswell, N.M. 88201		8. FARM OR LEASE NAME Grynberg Com Fed.	
9. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At surface 1080 FSL, 1080 FSL of Sec. 13-6s-24e		9. WELL NO. 1	
10. TOP PROD. INTERVAL REPORTED BELOW: 1080 FSL.		10. FIELD AND POOL, OR WILDCAT Dad Wildcat	
11. AT TOTAL DEPTH 5035 FSL.		11. SEC. T. R. M. OR BLOCK AND SURVEY Sec. 13-6s-24e	
12. PERMIT NO. 1		12. DATE DRILLED 4-2-80	
13. DATE SHUT-IN 5-22-80		13. COUNTY OR PARISH SANTA FE	
14. DATE T.D. REACHED 7-20-80		14. STATE N.M.	
15. DATE COMPLETION (Ready to prod.) 11-10-80		15. ELEVATIONS (F.P. RKB, HT. GR, ETC.) 3898.00	
16. TOTAL DEPTH, MD & TVD 5035 FSL, 4984 FTL		16. ELEV. CASINGHEAD 3898	
17. IF MULTIPLE COMPLET., HOW MANY? 1		17. INTERVALS DRILLED BY XX	
18. PRODUCING INTERVAL(S) OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)* 3586-3596 1/ft., 3778-3796 FSL. 1/ft.		18. ROTARY TOOLS CABLE TOOLS	
19. TYPE ELECTRIC AND OTHER LOGS RUN Dual Geolog Micro-SFL, Perforating Depth Control		19. WAS DIRECTIONAL SURVEY MADE yes	
20. TYPE ELECTRIC AND OTHER LOGS RUN Compensated Neutron-Formation Density		20. WAS WELL CORED no	
21. CASING RECORD (Report all strings set in well)			
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE
13 3/8	48	305 F.	17"
8 5/8	24	1449 F.	11"
7 1/2	10.5	5035 F.	7 7/8"
22. CEMENTING RECORD		AMOUNT PULLED	
150 sx Class C		Circulated	
450 Halliburton Lite			
100 Class C			
425 Class C 425 Poz			
23. LINER RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	PACKER CEMENT*
24. TUBING RECORD		PACKER SET (MD)	
SIZE	DEPTH SET (MD)	4804	
2 3/8	4804		
25. PERFORATION RECORD (Interval, size and number)			
3586-3596 1 per ft.		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
3778-3796 16 holes 1 per ft.		DEPTH INTERVAL (MD)	
3697-3707 1 per ft.		AMOUNT AND KIND OF MATERIAL USED	
		3778-3796 2500 Gals. 12% HCL/3% with 1000 SFC/bbl N2	
		3586-3596 1500 gals. 28% HCL	
		3697-3707 1500 gals. 28% HCL	
26. PRODUCTION			
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump)	
		Abo Flowing	
DATE OF TEST		WELL STATUS (Producing or shut-in)	
10-5-80		Shut-in	
HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL--BSL.
72			0
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	GAS--MCF.
			1.00
			0
			66
33. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)		TEST WITNESSED BY Fred Pool, Jr.	
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 <i>Fred Pool</i>		TITLE Secretary	
		DATE 11-18-80	

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

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws 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. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

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 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in Item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES.

38.

GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
San Andres	275	1289				
Glorietta	1290	2824				
Tubb	2825	3387				
Abo	3387	4126				
Wolfcamp	4127	4354				
Penn	4355	4969				
Precambria	4970	-				

WELLHEAD (SEE NEXT PAGE)

50 SX CLASS "C" CEMENT

305' 13 3/8" SURFACE

550 SX HALLIBURTON LITE CEMENT
Top of CEMENT 2600'

1449' 8 5/8" CASING

305'

5035' 4 1/2" CASING

1449'

3586

3586

PERFORATIONS

3697

3707

PERFORATIONS

425 SX CLASS "C" + 425 POZ mix

4024' 2 3/8" TUBING

PERFORATIONS

3778'

OTIS WIRELINE
OPERATED SLIDING
SLEEVE

3796'

3994'

BAKER LOCKSET PACKER

4024'

WELL BORE SKETCH
GRYNBERG COM. FEDERAL
1980 FEL 660' FSL
CHAVES CO. N.M.
SEC. 13 T.6S R.24E

PERFORATIONS

4848'

4854'

PBTD

4924'

GUIDESHOE

5035'

FRED POOL DRILLING, INC.

Suite 437, White Building
Roswell, New Mexico 88201

WELLHEAD DESCRIPTION

Quantity	Type
1	Gulco - 4 1/2 8rd FE x 6"/3000 G2SA tubing head assy w/2 2" LPO
2	Gulco - 2 3/8 EUE 8rd 3000# WOG G-2 gate valve.
1	Gulco - 2 3/8 " EU 8rd run x 2" LPO FS flow Tee.
1	2" LP inlet x 2" LPO 480-5 3000# adi choke assy.
1	2 3/8" 8rd x 12" lgth N-80 tubing nipple.
1	2 3/8" EUE 8rd Bull plug tapped 1/2"
1	50# 8M 1/2" Cemco needle valve.
1	45# LC 1/2" 3000# ashcroft pressure gauge
1	8 5/8 x 4 1/2 " type 75 Larkin casing head
1	2" xH Bull ring
1	2" B-136-CS-02 WKM ball valve.

Grynberg Comm. Federal #1
T6s R24e Sec. 13
Chaves County, New Mexico

SYSTEM	SERIES	ROCK UNIT	LITHOLOGY	
PERMIAN	OCHOAN	RUSTLER		
		SALADO		
		TANSILL		
	GUADALUPIAN	YATES		
		SEVEN RIVERS		
		QUEEN		608'
		GRAYBURG		
		SAN ANDRES		
		"GLORIETA"		1210'
		UPPER YESO		1280'
	LEONARDIAN	DRINKARD		2826'
		LOWER YESO		3384'
		ABO		4354'
		HUECO		4586'
PENNSYLVANIAN	VIRGILIAN	CISCO		
	MISSOURIAN	CANYON		
	DESMOINESIAN	STRAWN		
	ATOKAN	"ATOKA"		
	MORROWAN	"MORROW"		
MISSISSIPPIAN	CHESTERAN	"CHESTER"		
	MERAMECIAN	MISSISSIPPIAN		
	OSAGIAN	LIME		
DEVONIAN	KINDERHOOKIAN	WOODFORD		
SILURIAN		"UNDIFFERENTIATED SILURIAN"		
ORDOVICIAN		MONTOYA		
		SIMPSON		
		ELLENBURGER		
PRECAMBRIAN		UNNAMED		

Grynberg Comm Federal #1
T6s R24e Sec. 13

Chaves County, NEW MEXICO

**GENERALIZED
STRATIGRAPHIC SECTION**

SANTA FE, NEW MEXICO
APPLICATION FOR MULTIPLE COMPLETION

Form C-107
5-1-61

Operator Fred Pool Jr.		County Chaves	Date 11-18-80
Address Box 1300 Clovis Star Rt. Roswell		Lease Grynberg Com Fed	Well No. #1
Location of Well J	Section 13	Township 6s	Range 24e

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	Abq		Penn
b. Top and Bottom of Pay Section (Perforations)	3586' - 3586' 3697' - 3707' 3778' - 3796'		4848' - 4854'
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)

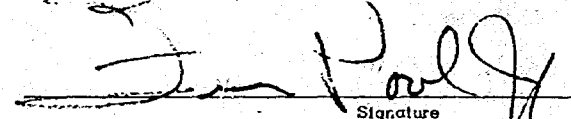
- | Yes | No | |
|-------------------------------------|--------------------------|---|
| ☒ | ☐ | a. Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, 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. |
| ☒ | ☐ | 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. |
| ☒ | ☐ | 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.* |
| ☒ | ☐ | 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:

Jack Grynberg 1050 17th Street Suite 1950 Denver, Colorado 80265

6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES X NO _____. If answer is yes, give date of such notification **11-18-80**.

CERTIFICATE: I, the undersigned, state that I am the **President** of the **Fred Pool Drilling Co.** (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.


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 proration unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

MULTIPLE COMPLETION
(CONVENTIONAL)

P.1

Grynberg Com Federal #1
T6s R24e Sec. 13
1980 FEL 1980 FSL
Chaves County, New Mexico

- 1) Said well is to be completed as a gas-gas and the hydrocarbons from each of the zones can be safely and efficiently produced through one string of tubing and one string of casing.
- 2) The packer used to segregate the separate zones of multiple completion will be a Baker Lockset Packer and shall effectively prevent communication between the two producing zones.
- 3) The two producing zones are the ABO and Penn respectively.
- 4) Form C-107 attached hereto.
- 5) For administrative approval;

- | | |
|--------------|---|
| <u> x </u> | a) Diagramatic sketch of the Multiple completion; |
| <u> x </u> | 1) Showing all casing strings |
| <u> x </u> | 2) Diameters and setting depths |
| <u> x </u> | 3) Centralizers and/or Turbolizers and location thereof |
| <u> x </u> | 4) Quantities used and top of cement |
| <u> x </u> | 5) Perforated intervals |
| <u> x </u> | 6) Tubing strings, including diameters and setting depth |
| <u> x </u> | 7) Location of packers |
| <u> x </u> | 8) Sleeves |
| <u> x </u> | b) Plat showing the location of all wells on applicants lease |
| <u> x </u> | 1) All offset wells on offset leases |
| <u> x </u> | 2) The names and addresses of operators of leases |
| <u> x </u> | 3) Evidence that said offset operators have been furnished with copies of the application |

MULTIPLE COMPLETION
(CONVENTIONAL)

P.2

Grynberg Com Federal #1
T6s R24e Sec. 13
1980 FEL 1980 FSL
Chaves County, New Mexico

- | | |
|--------------|---|
| <u> x </u> | 4) Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforations indicated thereon. |
| <u> x </u> | c) Logs |
| <u> x </u> | 1) Computer processed log. |
| <u> x </u> | 2) Perforating depth control |
| <u> x </u> | 3) Casing collar log and perforating record |
| <u> x </u> | 4) Dual Laterolog Micro-SFL |
| <u> x </u> | d) Drilling status reports |
| <u> x </u> | 1) Well completion reports |

AFFIDAVIT OF MAILING OR DELIVERY

Application for Multiple Completion

Grynberg Com Federal #1

Sec. 13 T6s R24e

Chaves County, New Mexico

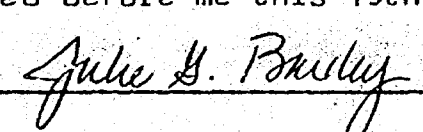
I hereby certify that I have this day mailed a copy of Form C-107
to Jack Grynberg, lease holder of lease No. 11795 Sec.12 T6s R24e
north offset to captioned well.


John Klee

STATE OF NEW MEXICO

COUNTY OF CHAVES

The foregoing instrument was acknowledged before me this 19th
day of November, 1980, by John Klee.


Julie H. Bowley

My commission expires

Oct. 15, 1984

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

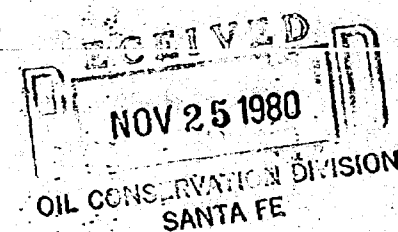
1a. TYPE OF WORK DRILL ☒ DEEPEN ☐ PLUG BACK ☐		5. LEASE DESIGNATION AND SERIAL NO. NM-11795
b. TYPE OF WELL OIL WELL ☐ GAS WELL ☒ OTHER ☐		6. IF INDIAN, ALL-PIPE OR TRICE NAME --
2. NAME OF OPERATOR Fred Pool Drilling Company		7. UNIT AGREEMENT NAME --
3. ADDRESS OF OPERATOR 409 White Building, Roswell, New Mexico 88201		8. FARM OR LEASE NAME Grynberg-Com Federal
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 1980' FSL & 1980' FEL of Sec. 13 At proposed prod. zone Same		9. WELL NO. 1
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 27 air miles north-northeast of Roswell, N. M.		10. FIELD AND POOL, OR WILDCAT Wildcat
15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 660'		11. SEC., T., R., W., OR BLK. AND SURVEY OR AREA 13-6S-24E
16. NO. OF ACRES IN LEASE 2360		12. COUNTY OR PARISH Chaves
17. NO. OF ACRES ASSIGNED TO THIS WELL 320		13. STATE N. M.
18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. N.A.		14. COUNTY OR PARISH Chaves
19. PROPOSED DEPTH 5500 Granite Wash		15. STATE N. M.
20. ROTARY OR CABLE TOOL Rotary		21. APPROX. DATE WORK WILL START* April 15, 1980
21. ELEVATIONS (Show whether DP, RT, GR, etc.) 3898 G.L.		

PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	48#	400' +/-	Circ.
12 1/4 or 11"	8 5/8"	24#	1500' +/-	Circ.
7 7/8"	4 1/2"	10.5#	TD	1000' above pay

Selectively perforate and treat pay zone.

Gas is not dedicated to a pipeline.

Attached are: Survey Plat (C-102)
Supplemental Drilling Data
Surface Use Plan



IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

SIGNED <u>Fred Pool, Jr.</u> (This space for Federal or State office use)	TITLE <u>Owner</u>	DATE <u>4-1-80</u>
PERMIT NO.	APPROVAL DATE	
APPROVED BY	TITLE	DATE
CONDITIONS OF APPROVAL, IF ANY:		

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

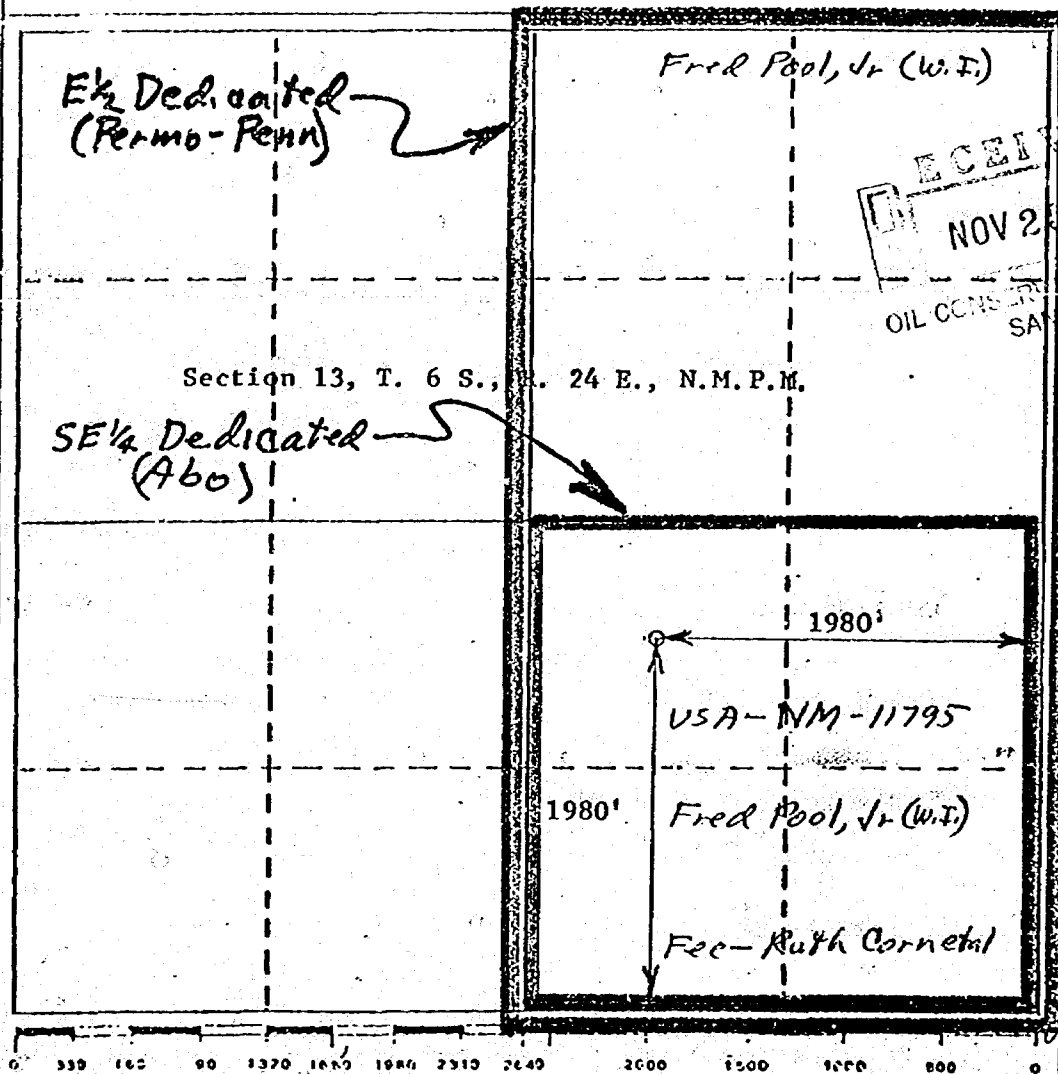
Operator Fred Pool Drlg. Co.		Lease Grynberg, Federal		Well No. 1
Unit Letter J	Section 13	Township 6S	Range 24E	County Chaves
Actual Postage Location of Well:				
1980 feet from the East line and		1980 feet from the South line		
Ground Level Elev. 3896.0	Producing Formation Penn	Pool Wildcat	Dedicated Acreage 160 Abo 320 Perm-Penn	

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 Communitization

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.

1980
Fred Pool, Jr.

Owner
Fred Pool Drlg. Co.

Position
Fred Pool Drlg. Co.

Company
March 26, 1980

Date

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

March 22, 1980

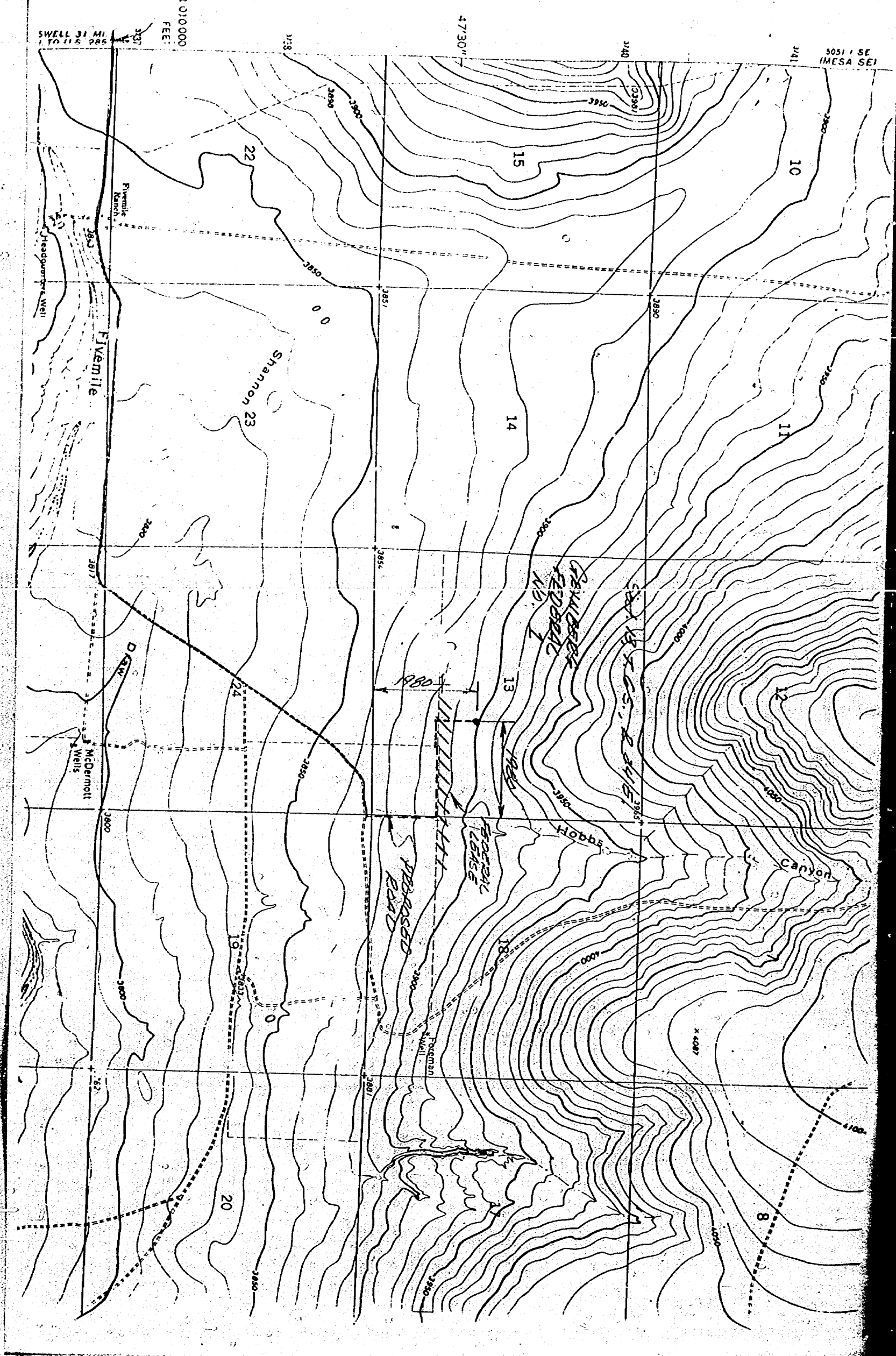
Date Surveyed
John D. Jaquess, P.E. & L.S.

Registered Professional Engineer
and/or Land Surveyor

John D. Jaquess

Certificate No.

6290



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

OPERATOR'S COPY

SUBMIT IN TRIPLICATE
(Other instructions on re-
verse side)Form approved,
Budget Bureau No. 42-R1424
LEASE DESIGNATION AND SERIAL NO.

NM-11795

6. INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Grynberg-Com Federal

9. WELL NO.

1

10. FIELD AND TOOL, OR WILDCAT

Wildcat

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

13-6S-24E

12. COUNTY OR PARISH 13. STATE

Chaves

N. M.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT" for such proposals.)1. OIL ☐ GAS ☒ OTHER ☐
WELL ☐ WELL ☒ OTHER ☐

2. NAME OF OPERATOR

Fred Pool Drilling Company

3. ADDRESS OF OPERATOR

409 White Bldg., Roswell, New Mexico 88201

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

1980' FSL & 1980' FEL of Sec. 13

11. PERMIT NO.

15. ELEVATIONS (Show whether D, R, GR, etc.)

3898 G.L.

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)

FILL OR ALTER CASING

REPAIR COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

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.)

The rotary rig, which was scheduled to drill this well, has been delayed with a fishing job on another well; and as we plan to be drilling over May 31, 1980, the lease expiration date, it may be necessary that we drill with a cable tool rig until the rotary rig becomes available.

Anticipated spud date is May 28, 1980.

NOV 25 1980

OIL CONSERVATION DIVISION
SANTA FE

RECEIVED

MAY 21 1980

U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

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

SIGNED

James A. Knaut

TITLE Agent

DATE May 19, 1980

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

MAY 21 1980

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE
(Other instructions on reverse side)Form approved
Budget Bureau No. 42-R1424

5. LEASE DESIGNATION AND SERIAL NO.

N.M. 11795

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT" for such proposals.)

RECEIVED

1. ☐ OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR

Fred Pool Drilling Co.

3. ADDRESS OF OPERATOR

409 White Bldg. Roswell, N.M. 80501

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

1980' FSL & 1980 FEL of Sec. 13

14. PERMIT NO.

15. ELEVATIONS (Show whether of, to, or, etc.)

3898 S.L.

7. UNIT AGREEMENT NAME

8. LEASE OR LEASE NAME

Grynberg-Com Fed

9. WELL NO.

1

10. FIELD AND POOL OR WILDCAT

Wildcat

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

13-6S-24E

12. COUNTY OR PARISH

13. STATE

Chaves

N.M.

16.

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREAT

MULTIPLE COMPLETE

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON*

SHOOTING OR ACIDIZING

ABANDONMENT*

REPAIR WELL

CHANGE PLANS

(Other)

Surface casing

(Other)

(Note: Report results of multiple completion on Well Completion or Recombination 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.)

June 3, 1980

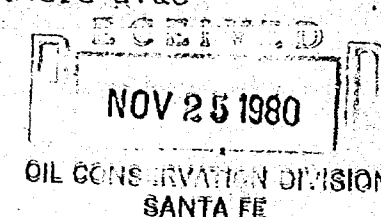
Ran 305 feet of 13 3/8" surface casing 48# NBJ 8rd ST&C

Cemented with 150 ex Class C Cement

Cement circulated.

Plugged down 2:00 p.m.

W.D.C. 6-4-80 and 6-5-80



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

SIGNED

Rita Jones

TITLE Secretary

DATE 6-5-80

(This space for Federal or State office use)

ACTING DISTRICT ENGINEER

APPROVED BY

TITLE

DATE JUN 06 1980

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.
5. LEASE DESIGNATION AND SERIAL NO.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT" for such proposals.)

1. OIL WELL ☐ GAS WELL ☒ OTHER ☐	2. NAME OF OPERATOR Fred Pool Drilling Co.	3. ADDRESS OF OPERATOR 437 White Bldg. Roswell, N.M. 88201	4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1980 FSL ; 1980 FEL of Sec. 13-6S- 24E Chaves County, N.M.	5. ELEVATIONS (Show whether DF, RT, CR, etc.) 3898. 0L	6. IF INDIAN, ALLOTTEE OR TRIBE NAME N.M. 11795	7. UNIT AGREEMENT NAME	8. FARM OR LEASE NAME Grynberg-Comm Federal	9. WELL NO. 1	10. FIELD AND POOL, OR WILDCAT Und. Wildcat	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 13-6S-24E	12. COUNTY OR PARISH Chaves	13. STATE N.M.
--	---	---	---	---	--	------------------------	--	------------------	--	---	--------------------------------	-------------------

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) ☐

PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
ABANDON ☐
CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐
FRACTURE TREATMENT ☐
SHOOTING OR ACIDIZING ☐
(Other) ☒ intermediate casing 8 5/8

REPAIRING WELL ☐
ALTERING CASING ☐
ABANDONMENT ☐

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

June 8, 1980

Set 1149 Ft. new 24# 8 5/8 casing. Cemented with 550 sx cement, (450 Halliburton Lite, 100 sx Class C). Cement circulated. Plug down at 9: a.m.

W O C 24hrs. Tested B O P and casing to 500' for 30 minutes. No pressure drop.

Started drilling at 2 p.m. July 9, 1980

NOV 25 1980

OIL CONSERVATION DIVISION
SANTA FE

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

SIGNED Patti Jones TITLE Secretary

DATE 7-11, 1980

(This space for Federal or State office use)

APPROVED BY PETER W. CHESTER TITLE ACTING DISTRICT ENGINEER

DATE JUL 14 1980

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPPLICATE*
(Other instructions on re-
verse side)Form approved.
Budget Bureau No. 42-R1424.
5. LEASE DESIGNATION AND SERIAL NO.

1.1. 11795

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT-" for such proposals.)

1. ☐ OIL WELL ☐ GAS WELL ☒ OTHER	7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR Fred Pool Drilling Co.	8. FARM OR LEASE NAME Crynberg-Com Fed.
3. ADDRESS OF OPERATOR 437 Shile Bldg. Roswell, N.M. 88201	9. WELL NO. 1
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1380 FOL, 1380 FOL of 13-61-24E Chaves County, N.M.	10. FIELD AND POOL, OR WILDCAT Und. Wildcat
14. PERMIT NO. 134	15. ELEVATIONS (Show whether OF, RT, OR, etc.) 3300. 38
16. COUNTY OR PARISH Chaves	17. STATE N.M.

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

NOTICE OF INTENTION TO:			SUBSEQUENT REPORT OF:		
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	WATER SHUT-OFF	☐	REPAIRING WELL
FRACTURE TREAT	☐	MULTIPLE COMPLETE	FRACTURE TREATMENT	☐	ALTERING CASING
SHOOT OR ACIDIZE	☐	ABANDON*	SHOOTING OR ACIDIZING	☐	ABANDONMENT*
REPAIR WELL	☐	CHANGE PLANS	(Other) XXXXXX Acid Report	☒	
(Other)	☐		(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.)

Completed from 4848-18 - 13 holes - 2 per foot
Acidized with 1600 Gal. (500 15% HCL and 1000 gal mud acid = 3% * 12% HCL

1000 cubic feet K2.

Up 2 3/8 at 4084 with A.C. Facker

Used Sulco variable choke.

Cleaned up and prepare to test well with 4 point test!

RECEIVED
NOV 25 1980
OIL CONSERVATION DIVISION
SANTA FERECEIVED
AUG 25 1980
U.S. GEOLOGICAL SURVEY
ALBUQUERQUE, NEW MEXICO

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

SIGNED _____ TITLE Secretary DATE 8/18/80
(This space for Federal or State office use)APPROVED BY _____ TITLE _____ ACCEPTED FOR RECORD
CONDITIONS OF APPROVAL, IF ANY: _____ DATE _____

*See Instructions on Reverse Side

AUG 25 1980
K-E-Sayles
U.S. GEOLOGICAL SURVEY
ROSWELL, NEW MEXICO

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other in-
structions on
reverse side)Form approved,
Budget Bureau No. 42-R355.6.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other _____		5. LEASE DESIGNATION AND SERIAL NO. N.L. 11795	
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. SERV. ☐ Other _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Fred Pool Drilling Co.		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR Box 1300 Clovis Star Rt. Roswell, N.M. 88201		8. FARM OR LEASE NAME Crynberg-Com Federal	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 1080 ECL, 1080 ECL, of Sec. 13-65-24E At top prod. interval reported below 4355 ft. At total depth 5035 ft.		9. WELL NO. 1	
14. PERMIT NO. 104		DATE ISSUED 4-2-80	
15. DATE SPUDDED 5/28/80	16. DATE T.D. REACHED 7/20/80	17. DATE COMPL. (Ready to prod.) 8/25/80	18. ELEVATIONS (DT, RSB, AT, OR, ETC.)* 3898, 63, 3898
20. TOTAL DEPTH, MD & TVD 5035 ft.	21. PLUG BACK T.D., MD & TVD 4984 ft.	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY ROTARY TOOLS CABLE TOOLS
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 4848-4854 - Penn NOV 25 1980			25. WAS DIRECTIONAL SURVEY MADE Yes
26. TYPE ELECTRIC AND OTHER LOGS RUN Dual Lateralog Micro-3FL, Perforating Depth Control, Compensated Neutron, Formation Density, Gamma Ray, Well Cored			
29. CASING RECORD (Report all strings set in well)			
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE
13 3/8	43.7	305 ft.	17"
8 5/8	24.7	1340 ft.	11"
1 1/2	10.7	1035 ft.	7 7/8"
CEMENTING RECORD			
150 sx Class C			
450 Halliburton Lite			
100 Class C			
425 Class C, 425 FCZ			
AMOUNT PULLED Circulated			
29. LINER RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*
30. TUBING RECORD			
SIZE	DEPTH SET (MD)	PACKER SET (MD)	
2 3/8	4804	4804	
31. PERFORATION RECORD (Interval, size and number) 4848-4854 13 Holes 2 per ft.			
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
DEPTH INTERVAL (MD)			
4848-4854v 1600 Gal. 1600 gal 15% HCL, 1000 Mod Acid			
AMOUNT AND KIND OF MATERIAL USED			
33. PRODUCTION Fenn at present.			
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing	
WELL STATUS (Producing or shut-in) Shut-In			
DATE OF TEST 8/19/80	HOURS TESTED 72	CHOKE SIZE	PROD'N. FOR TEST PERIOD
FLOW. TUBING PRESS.	CASING PRESSURE Packer	CALCULATED 24-HOUR RATE	OIL—BBL. 0
			GAS—MCF. 500
			WATER—BBL. OK
OIL GRAVITY-API (CORR.)			
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)			
TEST WITNESSED BY Fred Pool, III			
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 <i>Patti K. Jones</i>		TITLE Secretary	
DATE 8/3/80			

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)Form approved,
Budget Bureau No. 42-01424
LEASE DESIGNATION AND SERIAL NO.
NM 21795
IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT..." for such proposals.)

1. OIL WELL ☐ GAS WELL ☒ OTHER ☐	7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR Frost Pool Drilling Co.	8. FARM OR LEASE NAME Munich Con Federal
3. ADDRESS OF OPERATOR Box 1300 Clovis Star Rt. Roswell, N.M. 88201	9. WELL NO. 1
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 19° 00' N 120° 00' E; Sec. 13-5, S-24E	10. FIELD AND POOL, OR WILDCAT Undeveloped
14. PERMIT NO. 191	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 13-5S-24E
15. ELEVATIONS (Show whether DT, RT, CR, etc.) 1980.0 ft	12. COUNTY OR PARISH Santa Fe
13. STATE N.M.	

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

NOTICE OF INTENTION TO		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF ☐	PULL OR ALTER CASING ☐	WATER SHUT-OFF ☐	REPAIRING WELL ☐
FRAC TREATMENT ☐	MULTIPLE COMPLETION ☐	FRAC TREATMENT ☐	ALTERING CASING ☐
SHOOT OR ACIDIZE ☐	ABANDON ☐	SHOOTING OR ACIDIZING ☒	ABANDONMENT ☐
REPAIR WELL ☐	CHANGE PLANS ☐	(Other) ☐	
(Other) ☐			

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.)

Sept. 23, 1980:

Perforated 3779 - 83	6 shots	1/ft
3786 - 90	5 shots	1/ft
3792-96	5 shots	1/ft

Acidized with 2500 gallons 12% HCL/3% HF with 1000 SCF/bbl N₂. Plugged well back. Intend to frac well.RECEIVED
NOV 25 1980
OIL CONSERVATION DIVISION
SANTA FE

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

SIGNED F. J. [Signature]TITLE SecretaryDATE 9-27-80

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

Please advise as
to results of this
work.

*See Instructions on Reverse Side

ACCEPTED FOR RECORD

DATE

OCT 8 1980

U.S. GEOLOGICAL SURVEY
ROSWELL, NEW MEXICO

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT" for such proposals.)

1. OIL ☐ GAS ☒ OTHER ☐

2. NAME OF OPERATOR

Fred Pool Drilling Co.

3. ADDRESS OF OPERATOR

1300 Clovis Star Rd. Roswell, N.M. 88201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also 11 below.)

1980 FSL, 1980 FEL of Sec. 13-65-24E

Chaves County, N.M.

14. PERMIT NO.

194

15. ELEVATION (State whether OF, TO, OR, etc.)

3858.6L

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)

PULL OR ALTER CASING

MULTIPLE COMPLETION

CHANGING

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONING WELL

17. IS THERE PROPOSED OR COMPLETED OPERATIONS OF ANY KIND? (If so, give pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is fractionally drilled, give subsurface locations and measured and true vertical depths for all work, and of zones pertinent to this work.)

9-29-80 Set retrievable bridge-plug at 3965
 Perforated at 3778-3796 - 16 holes - 1 per ft.
 Acidized with 2500 gallons MGR 123.

9-30-80 Used 50,000 gallons foam frac. Used 53,000 lbs.
 20/40 sand. Pumped in 168bl/min down tubing and
 annulus at 3200 lbs./min.
 Opened up to flow back load.

RECEIVED
 NOV 25 1980
 OIL CONSERVATION DIVISION
 SANTA FE

RECEIVED

OCT 10 1980

U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

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

SIGNED

Perry A. L. N. M.

TITLE

Secretary

DATE 10-9-1980

(This space for Federal or State Approval, if any.)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY

ACCEPTED FOR RECORD

OCT 15 1980

U.S. GEOLOGICAL SURVEY

ROSWELL, NEW MEXICO

TITLE

DATE

U.S. GEOLOGICAL SURVEY
ROSWELL, NEW MEXICO

See Instructions on Reverse Side

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT" for such proposals.)

1. ☐ OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR
Fred Poll Drilling Co.

3. ADDRESS OF OPERATOR
Box 1300 Clovis Star Rt. Roswell, N. M. 88201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)
At surface
1980 FSL, 1980 FEL of Sec. 13 - 6s - 24e

14. PERMIT NO.
198

15. ELEVATION (Show whether DP, RT, GR, etc.)
3898 GL

5. LEASE DESIGNATION AND SERIAL NO.
N M 11795

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Grynberg Com Fed.

9. WELL NO.
71

10. FIELD AND POOL, OR WILDCAT
Und. Wildcat

11. SEC., T., R., 36., OR BLM. AND SURVEY OR AREA
13-6s-24e

12. COUNTY OR PARISH
Ochaves

13. STATE
NM

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*

(NOTE: Report results of multiple completion or recompletion 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 and completion of work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all intervals and road points.)

10-24-80 Set retrievable bridge-plug at 3800 ft.
Perforated at 3586-3596 and 3697-3707 10 Holes 1/min.
Used 60,000 gallons foam frac. Used 70,000 lbs. 20/40 sand. total fluid 354 bbls. 20 ball sealers.

10-30-80 Retrieved bridge plug. Set Baker locker set packer at 4024 ft/, Otis sliding sleeve at 3994 ft. Prepared to connect to gas line when line is ready.

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

SIGNED Penny Pool-Martin

TITLE Secretary

DATE 10-27-80

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

*See Instructions 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-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other ☐		5. LEASE DESIGNATION AND SERIAL NO. N.M. 11795	
2. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. CENVR. ☐ Other ☐		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. NAME OF OPERATOR Fred Pool Drilling Co.		7. UNIT AGREEMENT NAME	
4. ADDRESS OF OPERATOR Box 1300 Clovis Star Rt. Roswell, N.M. 88201		8. FARM OR LEASE NAME Grynberg-Com Federal	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 1980 FSL, 1980 FSL, of Sec. 13-6S-24E At top prod. interval reported below 4355 ft. At total depth 5035 ft.		9. WELL NO. 1	
14. PERMIT NO. 194		DATE ISSUED 4-2-80	
16. DATE SPUNDED 5/28/80		18. ELEVATIONS (OF, RKB, RT, OR, ETC.)* 3898 GR	
17. DATE T.D. REACHED 7/20/80		19. ELEV. CASINGHEAD 3898	
20. DATE COMPL. (Ready to prod.) 8/25/80		21. INTERVALS DRILLED BY XX	
22. TOTAL DEPTH, MD & TVD 5035 ft.		23. INTERVALS DRILLED BY XX	
24. PLUG BACK T.D., MD & TVD 4984 ft.		25. INTERVALS DRILLED BY XX	
26. IF MULTIPLE COMPL., HOW MANY*		27. INTERVALS DRILLED BY XX	
28. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 4848-4854 Penn at present		29. WAS DIRECTIONAL SURVEY MADE Yes	
30. TYPE ELECTRIC AND OTHER LOGS RUN Dual Laterolog Micro-SFL, Perforating Depth Control		31. WAS WELL CORED No	
32. CASING RECORD (Report all strings set in well)			
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE
13 3/8	48#	305 ft.	17"
8 5/8"	24#	1449 ft.	11"
4 1/2	10.5#	5035 ft.	7 7/8
33. CEMENTING RECORD			
AMOUNT PULLED			
150 sx Class C			
450 Halliburton Lite			
100 Class C			
425 Class C, 425 POZ			
Circulated			
34. LINER RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT*
2 3/8			
35. TUBING RECORD			
SIZE	DEPTH SET (MD)	P/CKER SET (MD)	
2 3/8	4804	4804	
36. PERFORATION RECORD (Interval, size and number)			
4848-4854 13 Holes 2 per ft.			
37. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
DEPTH INTERVAL (MD)			
4848-4854v			
AMOUNT AND KIND OF MATERIAL USED			
1500 Gal. (600 gal. 15% HCL, 1000 mud Acid)			
38. PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)			
Flowing			
39. WELL STATUS (Producing or shut-in)			
Shut-In			
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD
8/19/80	72		
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL. GAS—MCF. WATER—BBL. OIL GRAVITY-API (CORR.)
	Packer		0 500 0 0 0 0
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)			
TEST WITNESSED BY			
Fred Pool, III			
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 <u>Doris Del Jones</u> TITLE <u>Secretary</u> DATE <u>8/9/80</u>			

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

1

1

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in Item 33. Submit a separate report (page) on this form, adequately identified,

For each additional interval, it is separately produced, showing the additional data pertinent to such interval.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for Items 22 and 24 above.)

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES.

GEOLOGIC MARKERS

★ U.S. GOVERNMENT PRINTING OFFICE: 1974-780-680/VIII-238

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

Form approved, Budget Bureau No. 42-R35.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1. TYPE OF WELL OIL WELL ☐ GAS WELL ☒ DRY ☐ Other _____		5. LEASE DESIGNATION AND SERIAL NO. 11795			
2. TYPE OF COMPLETION NEW WELL ☒ WORK OVER ☐ DEEP IN ☐ PLUG BACK ☐ DEEP ENDS ☐ Other _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME			
3. NAME OF OPERATOR Fred Pool Drilling Co.		7. UNIT AGREEMENT NAME			
4. ADDRESS OF OPERATOR Box 1300 Clovis Bear R. Roswell, N.M. 88201		8. FARM OR LEASE NAME Crynbern Com Fed.			
9. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 1980 FSL, 1980 FSL of Sec. 13-6s-24e At top prod. interval reported below 3586 ft. At total depth 5035 ft.		9. WELL NO. #1			
10. FIELD AND POOL, OR WILDCAT Und. Wildcat		11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec. 13-6s-24e			
12. PERMIT NO. 10		DATE ISSUED 4-2-80			
13. DATE SHELDED 5-22-80		14. DATE T.O. REACHED 7-20-80			
15. DATE COMPLE. (Ready to prod.) 11-10-80		16. ELEVATIONS (L.P., RKB, RT, GR, ETC.)* 3898.68			
17. ELEV. CABINGHEAD 3898		18. INTERVALS DRILLED BY ROTARY TOOLS ☒ CABLE TOOLS ☐			
19. TOTAL DEPTH, MD & TVD 5035 ft.		20. PLUG BACK T.D., MD & TVD 4981 ft.			
21. IF MULTIPLE COMPLE., HOW MANY*		22. INTERVALS DRILLED BY ROTARY TOOLS ☒ CABLE TOOLS ☐			
23. PRODUCING INTERVALS OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 3586-3596 1/4" fr. 3778-3796 ft. 1/4" fr. 3697-3707 1/4" fr.		24. WAS DIRECTIONAL SURVEY MADE NO			
25. TYPE ELECTRIC AND OTHER LOGS RUN Dual Laterolog Micro-SFL, Perforating Depth Control		26. WAS WELL CORDED NO			
27. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT, LB/FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8	48	305 ft.	17"	150 sx Class C	Circulated
8 5/8	24	1449 ft.	11"	450 Halliburton Lite	"
1 1/2	10.5	5035 ft.	7 7/8"	100 Class C	"
28. LINER RECORD					
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	
29. TUBING RECORD					
SIZE	DEPTH SET (MD)	PACKER SET (MD)			
2 3/8	4804	4804			
30. PERFORATION RECORD (Interval, size and number)					
3586-3596 1 per ft. 3778-3796 16 holes 1 per ft. 3697-3707 1 per ft.					
31. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.					
DEPTH INTERVAL (MD)					
3778-3796					
2500 Gals. 12% HCL/3% with 1000 SFC/bbl N2					
3586-3596					
1500 gals. 28% HCL					
3697-3707					
1500 gals. 28% HCL					
32. PRODUCTION					
DATE FIRST PRODUCTION					
PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Abo Flowing					
WELL STATUS (Producing or shut-in) Shut-in					
DATE OF TEST	HOURS TESTED	CHOKED SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.
10-5-80	72			0	1000
WATER—BBL.	GAS-OIL RATIO				
0					
FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.
			0	56	0
33. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)					
TEST WITNESSED BY Fred Pool, Jr.					
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 <i>Fred Pool</i> TITLE Secretary DATE 11-18-80					

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

FRED POOL DRILLING, INC.

Suite 437, White Building
Roswell, New Mexico 88201

WELLHEAD DESCRIPTION

<u>Quantity</u>	<u>Type</u>
1	Gulfco - 4 1/2 8rd FE x 6"/3000 G2SA tubing head assy w/2 2" LPO
2	Gulfco - 2 3/8 EUE 8rd 3000# WOG G-2 gate valve.
1	Gulfco - 2 3/8 " EU 8rd run x 2" LPO FS flow Tee.
1	2" LP inlet x 2" LPO AB-75 3000# adi choke assy.
1	2 3/8" 8rd x 12" lgth N-80Tubing nipple.
1	2 3/8" EUE8rd Bull plug tapped 1/2"
1	50# BM 1/2" Cemco needle valve.
1	45# LC 1/2" 3000# ashcroft pressure gauge
1	8 5/8 x 4 1/2 " type 75 Larkin casing head
1	2" xH Bull ring
1	2" B-136-CS-02 WKM ball valve.

WELL HEAD (SEE NEXT PAGE)

50 SX CLASS "C" CEMENT

305' 13 3/8" SURFACE

1449' 8 5/8" CASING

550 SX HALLIBURTON LITE CEMENT
Top of CEMENT 2600'

5035' 4 1/2" CASING

3586
3586 PERFORATIONS

3697
3707 PERFORATIONS

425 SX CLASS "C" + 425 POZ mix

4024' 2 3/8" TUBING

PERFORATIONS

OTIS WIRELINE
OPERATED SLIDING
SLEEVE

BAKER LOCKSET PACKER

WELL BORE SKETCH
GRYNBERG Com. FEDERAL
1980 FEL 660' FSL
CHAVES Co. N.M.
SEC. 13 T6s R24E

GUIDESHOE

PERFORATIONS

PBTD

5035'

4848'
4854'

4984'

3778'
3796'
3994'

1449'

305'

Grynberg Comm. Federal #1
T6s R24e Sec. 13
Chaves County, New Mexico

SYSTEM	SERIES	ROCK UNIT	LITHOLOGY
PERMIAN	OCHOAN	RUSTLER	
		SALADO	
		TANSILL	
	GUADALUPIAN	YATES	
		SEVEN RIVERS	
		QUEEN	
		GRAYBURG	
		SAN ANDRES	
	LEONARDIAN	"GLORIETA"	
		UPPER YESO	
		DRINKARD	
		LOWER YESO	
		ABO	
	WOLFCAMPIAN	HUECO	
PENNSYLVANIAN	VIRGILIAN	CISCO	
	MISSOURIAN	CANYON	
	DESMOINESIAN	STRAWN	
	ATOKAN	"ATOKA"	
	MORROWAN	"MORROW"	
MISSISSIPPIAN	CHESTERAN	"CHESTER"	
	MERAMECIAN OSAGIAN KINDERHOOKIAN	MISSISSIPPIAN LIME	
DEVONIAN		WOODFORD	
SILURIAN		"UNDIFFERENTIATED SILURIAN"	
ORDOVICIAN		MONTOYA	
		SIMPSON	
		ELLENBURGER	
PRECAMBRIAN		UNNAMED	

608'

1210'

1280'

2824'

3384'

4354'

4584'

Grynberg Comm Federal #1
T6s R24e Sec. 13
Chaves County, NEW MEXICO

**GENERALIZED
STRATIGRAPHIC SECTION**

ROUGH

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. 7113

Order No. R- 6555

APPLICATION OF FRED POOL, JR.
FOR A DUAL COMPLETION, CHAVES
COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 o'clock a.m. on
December 30, 19 80, at Santa Fe, New Mexico, before
Examiner Daniel S. Nutter.

NOW, on this _____ day of January, 19 81, 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, Fred Pool, Jr.,
seeks authority to complete ~~its~~ ^{his} Grynberg Com Fed. Well No. 1
~~Well No. 1~~ XXXXXX, located in Unit J of Section 13, Town-
ship 6 South, Range 24 East, NMPM, Chaves

County, New Mexico, as a dual completion (conventional) to
~~(combination)~~
~~(tubingless)~~

~~XXXXX~~
produce gas from the Abo and Pennsylvanian formations with

separation of the zones to be achieved by means of a packer
set at approximately 4024 feet.

(3) That the mechanics of the proposed dual completion are feasible and in accord with good conservation practices.

(4) That approval of the subject application will prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Fred Pool, Jr.,
is hereby authorized to complete ~~the~~ ^{his} Grynberg Com Fed.

Well No. 1, located in Unit J of Section 13,
Township 6 South, Range 24 East, NMPM, Chaves

County, New Mexico, as a dual completion (conventional)
~~(combination)~~
~~(tubingless)~~

~~xxxx~~
to produce gas from the Abo and Pennsylvanian formations through
the casing tubing, annulus and the tubing, respectively,
with separation of the zones achieved by means
of a packer set at approximately 4024 feet.

PROVIDED HOWEVER, that the applicant shall complete, operate,
and produce said well in accordance with the provisions of Rule
112-A of the Division Rules and Regulations insofar as said rule
is not inconsistent with this order;

PROVIDED FURTHER, that the applicant shall take

Packer Leakage tests upon completion and
annually thereafter during the Annual gas well Shut-in
Pressure
Test Period for the Southeast New Mexico Pool

(2) 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.