

Case Number

5996

Application

Transcripts.

Small Exhibits

ETC.

BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
20 July 1977

EXAMINER HEARING

IN THE MATTER OF:

Application of Petroleum Corporation of) CASE
Texas for salt water disposal, Eddy) 5996
County, New Mexico.)

BEFORE: Richard L. Stamets

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the New Mexico Oil
Conservation Commission:

Lynn Teschendorf, Esq.
Legal Counsel for the Commission
State Land Office Building
Santa Fe, New Mexico

For the Applicant:

Jack M. Campbell, Esq.
CAMPBELL, BINGAMAN, & BLACK
San Francisco and Jefferson
Santa Fe, New Mexico

sid morish reporting service
General Court Reporting Service
825 Calle Mijia, No. 122, Santa Fe, New Mexico 87501
Phone (505) 982-9212

I N D E XARTHUR BOYCE

Direct Examination by Mr. Campbell	3
Cross Examination by Mr. Stamets	11
Cross Examination by Mr. Ramey	13

E X H I B I T S

Applicant's Exhibit One, Plat	11
Applicant's Exhibit Two, Letters of Waiver	11
Applicant's Exhibit Three, Logs	11
Applicant's Exhibit Four, Water Analysis	11
Applicant's Exhibit Five, Sketch	11

sid morrish reporting service

General Court Reporting Service
825 Calle Mejia, No. 122, Santa Fe, New Mexico 87501
Phone (505) 982-9212

sid morrison reporting service

General Court Reporting Service
825 Calle Mejia, No. 122, Santa Fe, New Mexico 87501
Phone (505) 982-9212

1 MR. STAMETS: Call Case 5996.

2 MS. TESCHENDORF: Case 5996. Application of Petro-
3 leum Corporation of Texas for salt water disposal, Eddy County
4 New Mexico.

5 MR. CAMPBELL: Jack M. Campbell, Campbell, Bingaman
6 and Black, Santa Fe, New Mexico, appearing on behalf of the
7 applicant.

8 MR. STAMETS: Do you have a witness?

9 MR. CAMPBELL: One witness to be sworn.

10 (Witness sworn.)
11

12 ARTHUR BOYCE

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

16 DIRECT EXAMINATION

17 BY MR. CAMPBELL:

18 Q Will you state your name, please?

19 A Arthur Boyce.

20 Q Where do you live and by whom are you employed, Mr.
21 Boyce?

22 A I live in Breckenridge, Texas, and I'm employed by
23 Petroleum Corporation of Texas.

24 Q In what capacity?

25 A As a Division Superintendent for the production in

sid morrish reporting service

General Court Reporting Service
825 Calle Mejia, No. 122, Santa Fe, New Mexico 87501
Phone (505) 982-9212

1 the west Texas and New Mexico area.

2 Q Will you give the Examiner a brief description of
3 your educational and professional background and experience,
4 please?

5 A I obtained a Bachelor of Science in Mechanical En-
6 gineering from the University of Texas in 1965; went to work
7 for Mobil Oil and worked for them up until April of this year
8 and then went to work for Petroleum Corporation of Texas.

9 Q What did you do for Mobil?

10 A While I was with them I worked in the production of
11 oil and gas in the operation of gas plants in the Permian
12 Basin area and in the Breckenridge area.

13 MR. CAMPBELL: Are the witness' qualifications ac-
14 ceptable to the Examiner?

15 MR. STAMETS: Yes, they are.

16 Q (Mr. Campbell continuing.) Are you acquainted with
17 the application of Petroleum Corporation of Texas in this
18 case?

19 A Yes.

20 Q Would you state in general terms to the Examiner what
21 it is you are seeking here?

22 A We'd like authority to produce salt water into the
23 Abo Formation in Dexter Federal Well Number 3, located in
24 Unit I in Section 22, Township 17 South, Range 30 East, in
25 Eddy County, New Mexico.

1 Q I hand you, Mr. Boyce, what's been identified as
2 Applicant's Exhibit Number One, and ask you to state, please,
3 what that is?

4 A That's a plat showing the location of this well, as
5 I just described.

6 Q And referring to that Exhibit One, will you state
7 where the exact location of the proposed disposal well is?

8 A It's in Unit I, Section 22, Township 17 South, Range
9 30 East. It's 2310 feet from the south, 330 feet from the
10 east line.

11 Q Will you from this map identify who the offset lease
12 owners are, please?

13 A General America is immediately north of this well
14 and also to the northeast; Atlantic Richfield is directly
15 east; Anadarko is to the south and southeast; Franklin, Aston
16 and Fair are to the southeast -- southwest; and General
17 America also is on the west.

18 Q I hand you what has been identified as Applicant's
19 Exhibits 2A, 2B, 2C and 2D, and ask you state what those are,
20 please?

21 A These are letters of waiver from the offset operators
22 that I just named.

23 Q So you do have waivers from all of the offset oper-
24 ators that you have previously referred to in testimony?

25 A Yes, sir.

sid morrish reporting service

General Court Reporting Service
825 Calle Mejia, No. 122, Santa Fe, New Mexico 87501
Phone (505) 982-9212

1 Q I now hand you what has been identified as Applicant's
2 Exhibit Number Three, and advise the Examiner that these --
3 these are the logs of the proposed disposal well.

4 They have been -- copies have been filed with the
5 Commission in the original application for administrative
6 approval.

7 Will you state, Mr. Boyce, what Exhibit Three is?

8 A It is a log of the Dexter Federal Number 3 Well.

9 Q Are you acquainted with -- have you acquainted your-
10 self, since you became employed with Petroleum Corporation of
11 Texas, with the history of this proposed disposal well?

12 A Yes, sir.

13 Q Utilizing Exhibit Three and such other information
14 and data as you have available to you, would you describe the
15 completion of that well and its production history?

16 A Yes. It was completed in May of 1962. Perforations
17 of 6852 to 6864; and 6868 to 6877; 6884 to 6899; and 6906 to
18 6926; and in November of '63 the 6906 to 6926 was squeezed
19 with 100 sacks, and the 6884 to 6899 was squeezed with 50
20 sacks in November of '64, and the well was TA'd in January
21 of 1966 because it was uneconomical to produce.

22 Q And it has not produced since that time?

23 A No, sir.

24 Q Did you encounter a fresh water zone at any level
25 in the drilling and completion of this well?

sid. morrish reporting service
General Court Reporting Service
825 Calle Mejia, No. 122, Santa Fe, New Mexico 87501
Phone (505) 982-9212

sid morrison reporting service
General Court Reporting Service
 825 Calle Mejia, No. 122, Santa Fe, New Mexico 87501
 Phone (505) 982-9212

1 A. Yes. There is a fresh water zone at about 240 to
 2 260 feet.

3 Q And what is the interval at which you wish to dis-
 4 pose of the salt water?

5 A. We wish to dispose in the perforations that are
 6 still open, from 6852 to 6864, and 6868 to 6877.

7 Q Based upon your knowledge of the completion of this
 8 well, is it your opinion that this injection of salt water
 9 can take place without endangering the fresh water zone to
 10 which you have referred?

11 A. Yes, sir. That zone is protected by 8-5/8 casing,
 12 which is set at 1437 with 500 sacks of cement, recirculated
 13 to the surface; inside this is run 4-1/2 casing to 6939 and
 14 it was cemented with 771 sacks of cement with a DV2 of set
 15 at 6670, and I calculate that this cement should be within
 16 approximately 1500 feet of the surface.

17 Q Where will the salt water which you initially intend
 18 to dispose of in this well come from?

19 A. It will come from our Number 2 Well on this lease.
 20 I mean Number 1 Well on this lease, and also off the Flint B
 21 Federal lease, which is in same township and range, but
 22 Section 14; and our Jenkins B Federal leases, which are in
 23 the same township and range in Section 20.

24 Q As to those in Section 14 and Section 20, do you in-
 25 tend to, if granted this authority immediately begin to dis-

sid morish reporting service
General Court Reporting Service
 825 Calle Neja, No. 122, Santa Fe, New Mexico 87501
 Phone (505) 982-9212

1 pose of salt water from those wells?

2 A. No.

3 Q. Initially you intend to dispose only of salt water
 4 from the -- your Number 1 Well?

5 A. Yes, sir.

6 Q. Have you had an analysis made, chemical analysis made
 7 of the water from that Number One Well?

8 A. Yes, sir.

9 Q. I hand you what's been identified as Applicant's
 10 Exhibit Number Four, and ask you to state what that is?

11 A. This is a chemical analysis on the water from the
 12 Dexter Federal J lease, which is the Number 1 Well. It
 13 shows the chlorides and total solids.

14 Q. Have you had analysis made of water from the other
 15 areas that you may in the future wish to use to dispose of
 16 water from?

17 A. Yes, sir, I have, but I don't have copies with me,
 18 and I would like to send them in.

19 Q. Would you furnish those to the Commission for the
 20 record in this case?

21 A. Yes, sir.

22 MR. CAMPBELL: Would that be agreeable, Mr. Examiner?

23 MR. STAMETS: Yes.

24 Q. (Mr. Campbell continuing.) Mr. Boyce, I hand you
 25 what's been identified as Applicant's Exhibit Number Five, and

sid morrison reporting service
General Court Reporting Service
 825 Calle Mejia, No. 122, Santa Fe, New Mexico 87501
 Phone (505) 982-9212

1 ask you please to state what that is?

2 A. This is a wellbore sketch of how we intend to inject
 3 the water. It shows the casing strings, the perforations,
 4 the squeeze dates, and shows that we'll set a tension-type
 5 packer at 6800 and we will have 2-3/8 inch soft line tubing
 6 for the surface that we'll inject down and load the backside
 7 with chemically treated water to protect against corrosion.

8 Q. Mr. Boyce, it's my understanding that you originally
 9 filed an application for administrative approval for the dis-
 10 posal of salt water and that at that time you requested
 11 authority to dispose of that water at a shallower depth, am
 12 I correct in that?

13 A. Yes, sir.

14 Q. And then you filed an amended application deleting
 15 the request to inject water at the shallower depth, confining
 16 it to the perforations shown on your Applicant's Exhibit Num-
 17 ber Five, to which you've just referred, am I correct in that?

18 A. Yes, sir.

19 Q. I also understand that in the latter -- or later
 20 application for administrative approval, which is really the
 21 basis of this hearing, that there are some mathematical errors
 22 in that application, and for the -- to make the record correct
 23 in this case, would you please identify what those corrections
 24 should be in your application of June 27th?

25 A. Yes, sir. In the case of the tubing setting depth

1 that was 3940 and it should be 6800; that wasn't corrected
2 when we changed our depth; that was the old depth.

3 MR. STAMETS: 6800?

4 A Yes, sir, and the top of the formation and the bot-
5 tom of the formation are also in error. The top of the form-
6 ation should be 6635 and the bottom is 6939, I believe.

7 MR. CAMPBELL: I think, Mr. Examiner, that the pub-
8 lication and all in this case correctly reflects what is
9 being sought here. This is simply to make the application
10 conform to the -- the original application conform to the
11 application on which this hearing is being held at this time.

12 Q (Mr. Campbell continuing.) Mr. Boyce, do you be-
13 lieve that if this application is granted, that it will be
14 possible for you to obtain greater ultimate recovery of oil
15 from your Number One Well than would otherwise be the case?

16 A Yes, sir.

17 Q Do you believe that if this application is granted
18 it would in any way adversely affect any correlative rights
19 of any other owners or operators of properties?

20 A No, sir.

21 Q At what general rate do you anticipate injecting
22 this salt water?

23 A Between 400 and 675 barrels per day.

24 Q Do you have any present estimates of the range of
25 injection pressures that might be required?

1 A. Between 100 and 1500 pounds.

2 Q. You do not believe it would, in any event, exceed
3 1500 pounds?

4 A. No, sir. I would think it would be in the general
5 neighborhood of 1200, but it wouldn't, I don't believe, ex-
6 ceed 1500.

7 Q. Do you have anything further you wish to add at this
8 time?

9 A. No, sir.

10 MR. CAMPBELL: I'd like to offer Applicant's Exhibits
11 One, Two A, B, C, and D, Three, Four, and Five.

12 MR. STAMETS: These Exhibits will be admitted.

13 MR. CAMPBELL: That's all the questions I have at
14 this time.

15

16 CROSS EXAMINATION

17 BY MR. STAMETS:

18 Q. What does "SALTA" apply to?

19 A. It's a plastic-lined tubing; it's a brand name.

20 Q. Okay.

21 A. There's a factory out of Hobbs, I believe, and one
22 in Abilene.

23 Q. The Commission has been setting a pressure limitation
24 in all recent orders of approximately two-tenths of a pound
25 per foot of depth. In this case that pressure limitation

sid morrish reporting service
General Court Reporting Service
825 Calle Mejia, No. 122, Santa Fe, New Mexico 87501
Phone (505) 982-9212

sid morrison reporting service

General Court Reporting Service
825 Calle Mijic, No. 122, Santa Fe, New Mexico 87501
Phone (505) 982-9212

1 would be something in excess of 1360 pounds. Do you feel that
2 that would be adequate?

3 A. Yes, sir.

4 Q. Okay, and we also have provided an opportunity for
5 the operator to get a higher pressure if he needs it and can
6 demonstrate that this higher pressure will not result in
7 migration of water from the injection formation. Have you
8 reviewed the records of the wells within a half a mile of
9 your proposed injection well that penetrate the Abo Zone?

10 A. Yes, sir.

11 Q. Do you have a record of that review?

12 A. Repeat your question again.

13 Q. Do you have any record of that review with you that
14 shows the casing and setting depths of cement, and so on?

15 A. Yes, I believe I do.

16 Q. Is that in a form that can be submitted to the Com-
17 mission?

18 MR. CAMPBELL: Would you state what the nature of
19 that data is?

20 A. These are some scout cards that we have and it shows
21 the casing and the cementing and the perforations and the
22 initial production, and a few things like that on wells. I
23 don't see why we couldn't submit them. I don't have the re-
24 quired number of copies.

25 MR. CAMPBELL: Be glad to submit them.

sid morrish reporting service

General Court Reporting Service
825 Calle Mejia, No. 122, Santa Fe, New Mexico 87501
Phone (505) 982-9212

1 Mr. Examiner, we would like to request permission to submit
2 to you for the record in this case information concerning the
3 completion data and any plugging information on any wells
4 within a half mile of this proposed disposal well in the Abo
5 Formation, or which have penetrated the Abo Formation.

6 MR. STAMETS: That will be just fine.

7 Anybody have any additional questions of this wit-
8 ness?

9 MR. RAMEY: Let me ask a couple questions.

10

11

CROSS EXAMINATION

12

BY MR. RAMEY:

13

Q Mr. Boyce, your Exhibit Four, which is the water
14 analysis, now this is water from your producing well?

15

A. Yes, sir.

16

Q And this is Abo water?

17

A. Yes, sir.

18

Q All right, how about the other water that you plan
19 on injecting at some later date, is that also -- will that
20 also be Abo water?

21

A. No, sir.

22

Q Would it be water that, say, has greater dissolved
23 solids in it than the Abo water?

24

A. Yes, sir.

25

Q Okay, do you foresee any future use wherein water

1 from the Abo may be utilized and treated for drinking water?

2 A. No, sir.

3 Q You can't see any -- any future use for -- wherein
4 this might occur?

5 A. No, sir.

6 MR. RAMEY: Thank you. We're supposed to protect
7 waters of 10,000 parts per million or less.

8 MR. CAMPBELL: May I inquire, Mr. Examiner, we have
9 furnished the chemical analysis of the water from the Abo
10 Well, which will be used initially, which were to be disposed
11 of initially. May I inquire of the Examiner when and if the
12 applicant desires to dispose of water from the other areas
13 to which he has referred in his testimony, what will be re-
14 quired in terms of further approval by the Commission, or
15 would it be contemplated that this would be covered in this
16 order in this case?

17 We will be -- we're prepared to furnish to the Com-
18 mission notice at such time as we contemplate disposing of
19 water other than from this initial well and furnishing the
20 Commission with a chemical analysis of that water and a de-
21 scription of the method by which that water will be trans-
22 ported from the leases referred to to the disposal well. If
23 that requirement were included in this order it might make it
24 an administrative process at that time.

25 MR. STAMETS: I think what we could do would be in-

sid morrish reporting service
General Court Reporting Service
825 Calle Mejia, No. 122, Santa Fe, New Mexico 87501
Phone (505) 982-9212

1 clude a provision in the order whereby the Secretary-Director
2 can grant authorization to put additional waters in this well
3 and require showing of the volumes and the total dissolved
4 solids.

5 MR. CAMPBELL: Thank you, Mr. Examiner. That's all
6 we have.

7 MR. STAMETS: Anything further? The witness will
8 be excused. The case will be taken under advisement and
9 the hearing is adjourned.

10 (Hearing concluded.)
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

sid morrison reporting service

General Court Reporting Service
825 Call: Mejia, No. 122, Santa Fe, New Mexico 87501
Phone (505) 982-9212

REPORTER'S CERTIFICATE

I, Sally Walton Boyd, a Certified Shorthand Reporter,
do hereby certify that the foregoing and attached Transcript
of Hearing before the New Mexico Oil Conservation Commission
was reported by me, and the same is a true and correct record
of the said proceedings, to the best of my knowledge, skill,
and ability.

Sally Walton Boyd
Sally Walton Boyd, C. S. R.

sid morrish reporting service

General Court Reporting Service
825 Calle Mejia, No. 122, Santa Fe, New Mexico 87501
Phone (505) 982-9212

I do hereby certify that the foregoing is
a complete record of the proceedings in
the Examiner hearing of Case No. 5996-
heard by me on 7-29-77, 19 77
Richard L. Stam, Examiner
New Mexico Oil Conservation Commission

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

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

CASE NO. 5996
Order No. R-5513

APPLICATION OF PETROLEUM CORPORATION
OF TEXAS FOR SALT WATER DISPOSAL,
EDDY COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on July 20, 1977,
at Santa Fe, New Mexico, before Examiner, Richard L. Stamets.

NOW, on this 30th day of August, 1977, the Commission,
a quorum being present, having considered the testimony, the
record, and the recommendations of the Examiner, and being fully
advised in the premises,

FINDS:

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

(2) That the applicant, Petroleum Corporation of Texas,
is the owner and operator of the Dexter Federal Well No. 3,
located in Unit I of Section 22, Township 17 South, Range 30
East, NMPM, Jackson Abo Pool, Eddy County, New Mexico.

(3) That the applicant proposes to utilize said well to
dispose of produced salt water into the Abo formation, with
injection into the perforated interval from approximately
6,852 feet to 6,877 feet.

(4) That the injection should be accomplished through
2 3/8-inch plastic lined tubing installed in a packer set at
approximately 6800 feet; that the casing-tubing annulus should
be filled with an inert fluid; and that a pressure gauge or
approved leak detection device should be attached to the annulus
in order to determine leakage in the casing, tubing, or packer.

(5) That the injection well or system should be equipped
with a pop-off valve or acceptable substitute which will limit
the wellhead pressure on the injection well to no more than
1370 psi.

(6) That there should be no injection into said well of waters produced from any formation other than the Abo formation without written authorization from the Secretary-Director of the Commission.

(7) That the operator should notify the supervisor of the Artesia district office of the Commission of the date and time of the installation of disposal equipment so that the same may be inspected.

(8) That the operator should take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface.

(9) That approval of the subject application will prevent the drilling of unnecessary wells and otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Petroleum Corporation of Texas, is hereby authorized to utilize its Dexter Federal Well No. 3, located in Unit I of Section 22, Township 17 South, Range 30 East, NMPM, Jackson Abo Pool, Eddy County, New Mexico, to dispose of produced salt water into the Abo formation, injection to be accomplished through 2 3/8-inch tubing installed in a packer set at approximately 6800 feet, with injection into the perforated interval from approximately 6,852 feet to 6,877 feet;

PROVIDED HOWEVER, that the tubing shall be plastic-lined; that the casing-tubing annulus shall be filled with an inert fluid; and that a pressure gauge shall be attached to the annulus or the annulus shall be equipped with an approved leak detection device in order to determine leakage in the casing, tubing, or packer.

(2) That the injection well or system shall be equipped with a pop-off valve or acceptable substitute which will limit the wellhead pressure on the injection well to no more than 1370 psi.

(3) That the operator shall notify the supervisor of the Artesia district office of the Commission of the date and time of the installation of disposal equipment so that the same may be inspected.

(4) That prior to injection into said well of waters produced from any formation other than the Abo formation the operator shall obtain written approval from the Secretary-Director of the Commission.

-3-

Case No. 5996
Order No. R-5513

(5) To obtain such approval the operator shall submit an application setting forth the source and volume of such non-Abo formation waters, an analysis of such non-Abo formation waters, and an analysis of the combined waters to be disposed of.

(6) The Secretary-Director may administratively authorize the disposal of such additional water if the same does not result in the contamination of waters for which there may be a reasonably foreseeable use.

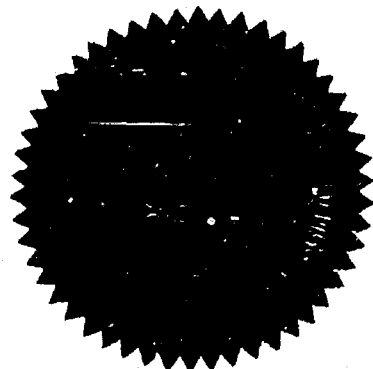
(7) That the operator shall immediately notify the supervisor of the Commission's Artesia district office of the failure of the tubing, casing, or packer, in said well or the leakage of water from or around said well and shall take such steps as may be timely and necessary to correct such failure or leakage.

(8) That the applicant shall submit monthly reports of its disposal operations in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.

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

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

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION



PHIL R. LUCERO, Chairman

Emery C. Arnold
EMERY C. ARNOLD, Member

Joe D. Ramey
JOE D. RAMEY, Member & Secretary

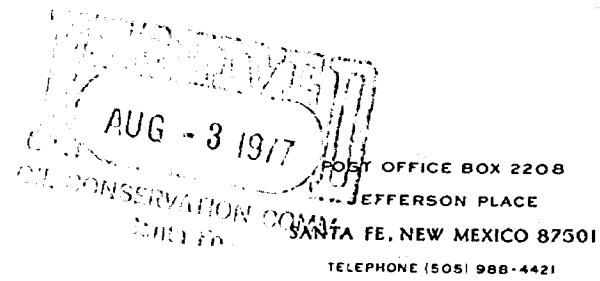
S E A L

jr/

CAMPBELL, BINGAMAN AND BLACK, P. A.

LAWYERS

JACK M. CAMPBELL
JEFF BINGAMAN
BRUCE D. BLACK
MICHAEL B. CAMPBELL



August 2, 1977

Mr. Richard L. Stamets
Technical Support Chief
New Mexico Oil Conservation
Commission
Post Office Box 2088
Santa Fe, New Mexico 87501

Re: OCC Case 5996 - Application of
Petroleum Corporation of Texas

Dear Mr. Examiner:

Pursuant to the request made in the hearing on the captioned case, I am enclosing herewith five copies of the well diagrams for all wells within one-half mile of the Dexter Federal No. 3 well which is, as you know, the disposal well. I assume you will want to file these with the case file in this matter.

Very truly yours,

A handwritten signature in cursive script, reading "Jack M. Campbell", is written over the typed name.

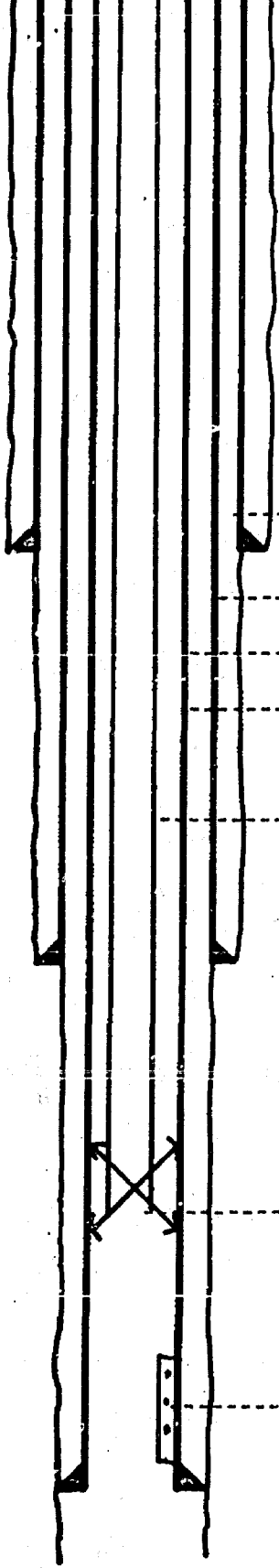
Jack M. Campbell

JMC:mr
Enclosures
cc. Mr. Arthur Boice
Petroleum Corporation of Texas

PLAN - O - G R A M

Company MacDonald Oil Corporation
Box 5402 Midland, TX

Well No. 1 Lease Sinclair-Parke
Unit Letter , Sec. 22, T-17S, R-30E
2310' FNL & 2308' FWL, Eddy County, NM



-----8-5/8" set @ 1414' w/350 sx cement. 12-9-63

-----No intermediate string of casing.

-----7-7/8" hole.

-----5-1/2" set @ 6979' w/350 sx cement, w/ D.V. Tool @ 4375'.
Top of cement by temp. survey @ 1750'.

-----2-3/8" Tbg set @ 6946'.

-----Packer set @ 6885'.

-----Perfs @ 6960'-76', Abo Reef.

Cementing

Special Tools

Acidizing

Chemical Services

284 SERVICE CENTERS . . .

JUST MINUTES AWAY FROM YOUR WELL!

Formation Testing

Fracturing

Dump Bailer

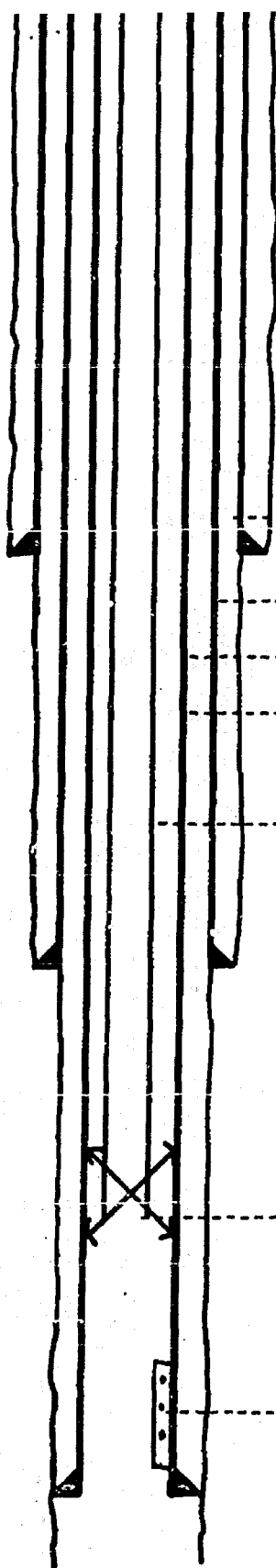
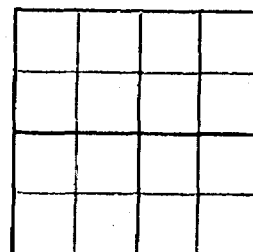
Casing Equipment



PLAN - O - G R A M

Company MacDonald Oil Corporation
Box 5402 Midland, TX

Well No. 1 Lease Sinclair-Parke
Unit Letter , Sec. 22, T-17S, R-30E
2310' FNL & 2308' FWL, Eddy County, NM



-----8-5/8" set @ 1414' w/350 sx cement. 12-9-63

-----No intermediate string of casing.

-----7-7/8" hole.

-----5-1/2" set @ 6979' w/350 sx cement, w/ D.V. Tool @ 4375'.
Top of cement by temp. survey @ 1750'.

-----2-3/8" Tbg set @ 6946'.

-----Packer set @ 6885'.

-----Perfs @ 6960'-76', Abo Reef.

Cementing

Special Tools

Acidizing

Chemical Services

284 SERVICE CENTERS . . .

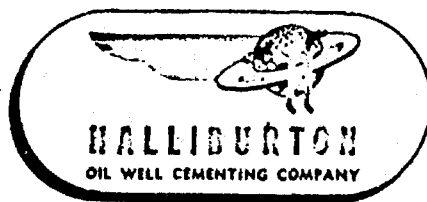
JUST MINUTES AWAY FROM YOUR WELL!

Formation Testing

Fracturing

Dump Bailer

Casing Equipment



PLAN - O - G R A M

Company MacDonald Oil Corporation
Box 5402 Midland, TX

Well No. 1 Lease Sinclair-Parke
Unit Letter , Sec. 22, T-17S, R-30E
2310' FNL & 2308' FWL, Eddy County, NM

-----8-5/8" set @ 1414' w/350 sx cement. 12-9-63

-----No intermediate string of casing.

-----7-7/8" hole.

-----5-1/2" set @ 6979' w/350 sx cement, w/ D.V. Tool @ 4375'.
Top of cement by temp. survey @ 1750'.

-----2-3/8" Tbg set @ 6946'.

-----Packer set @ 6885'.

-----Perfs @ 6960'-76', Abo Reef.

Cementing

Special Tools

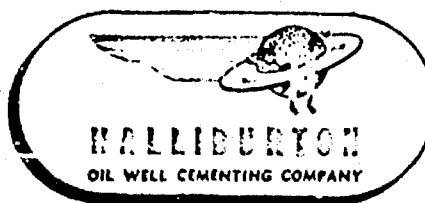
Acidizing

Chemical Services

284 SERVICE CENTERS . . .

Formation Testing

Fracturing



JUST MINUTES AWAY FROM YOUR WELL!

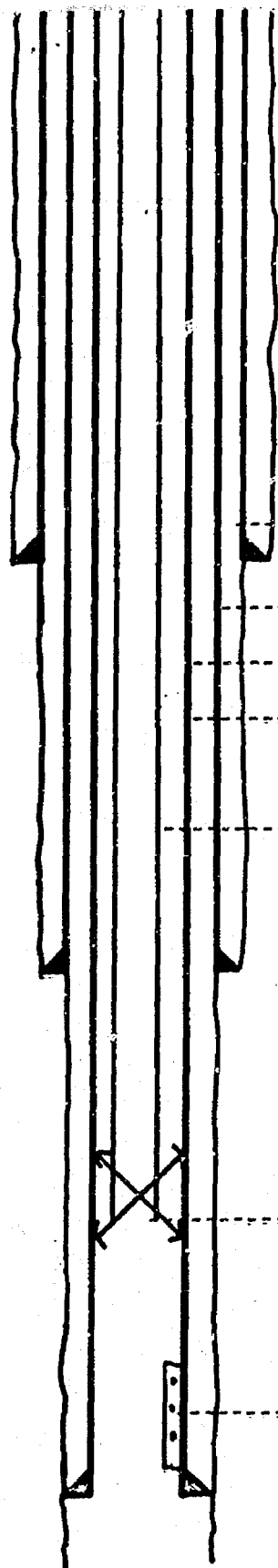
Dump Boiler

Casing Equipment

PLAN-O-GRAM

Company MacDonald Oil Corporation
Box 5402 Midland, TX

Well No. 1 Lease Sinclair-Parke
Unit Letter , Sec. 22, T-17S, R-30E
2310' FNL & 2308' FWL, Eddy County, NM



-----8-5/8" set @ 1414' w/350 sx cement. 12-9-63

-----No intermediate string of casing.

-----7-7/8" hole.

-----5-1/2" set @ 6979' w/350 sx cement, w/ D.V. Tool @ 4375'.
Top of cement by temp. survey @ 1750'.

-----2-3/8" Tbg set @ 6946'.

-----Packer set @ 6885'.

-----Perfs @ 6960'-76', Abo Reef.

Cementing

Special Tools

Acidizing

Chemical Services

284 SERVICE CENTERS

JUST MINUTES AWAY FROM YOUR WELL!

Formation Testing

Fracturing

Dump Bailer

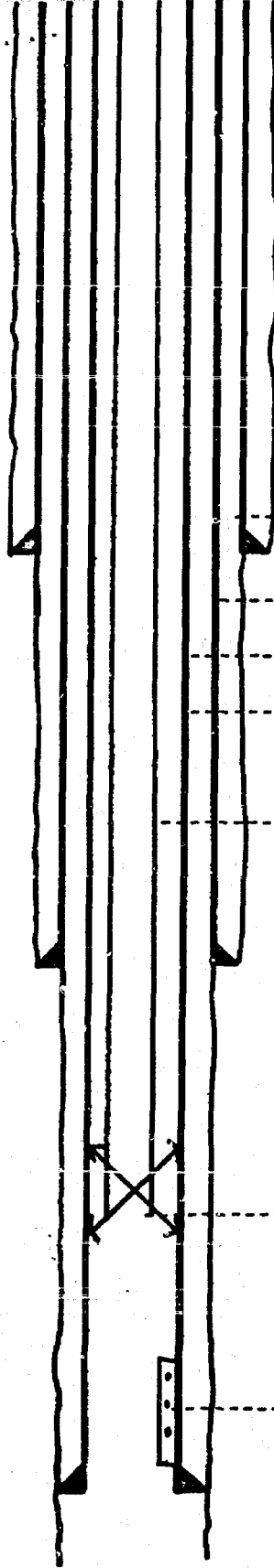
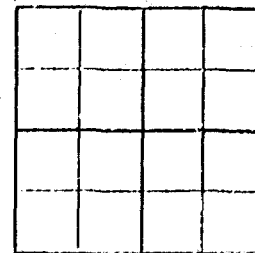
Casing Equipment



PLAN - O - G R A M

Company MacDonald Oil Corporation
Box 5402 Midland, TX

Well No. 1 Lease Sinclair-Parke
Unit Letter , Sec. 22, T-17S, R-30E
2310' FNL & 2308' FWL, Eddy County, NM



-----8-5/8" set @ 1414' w/350 sx cement. 12-9-63

-----No intermediate string of casing.

-----7-7/8" hole.

-----5-1/2" set @ 6979' w/350 sx cement, w/ D.V. Tool @ 4375'.
Top of cement by temp. survey @ 1750'.

-----2-3/8" Tbg set @ 6946'.

-----Packer set @ 6885'.

-----Perfs @ 6960'-76', Abo Reef.

Cementing

Special Tools

Acidizing

Chemical Services

284 SERVICE CENTERS . . .

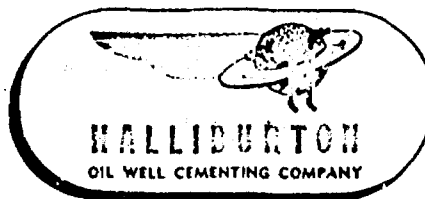
JUST MINUTES AWAY FROM YOUR WELL!

Formation Testing

Fracturing

Dump Bailer

Casing Equipment

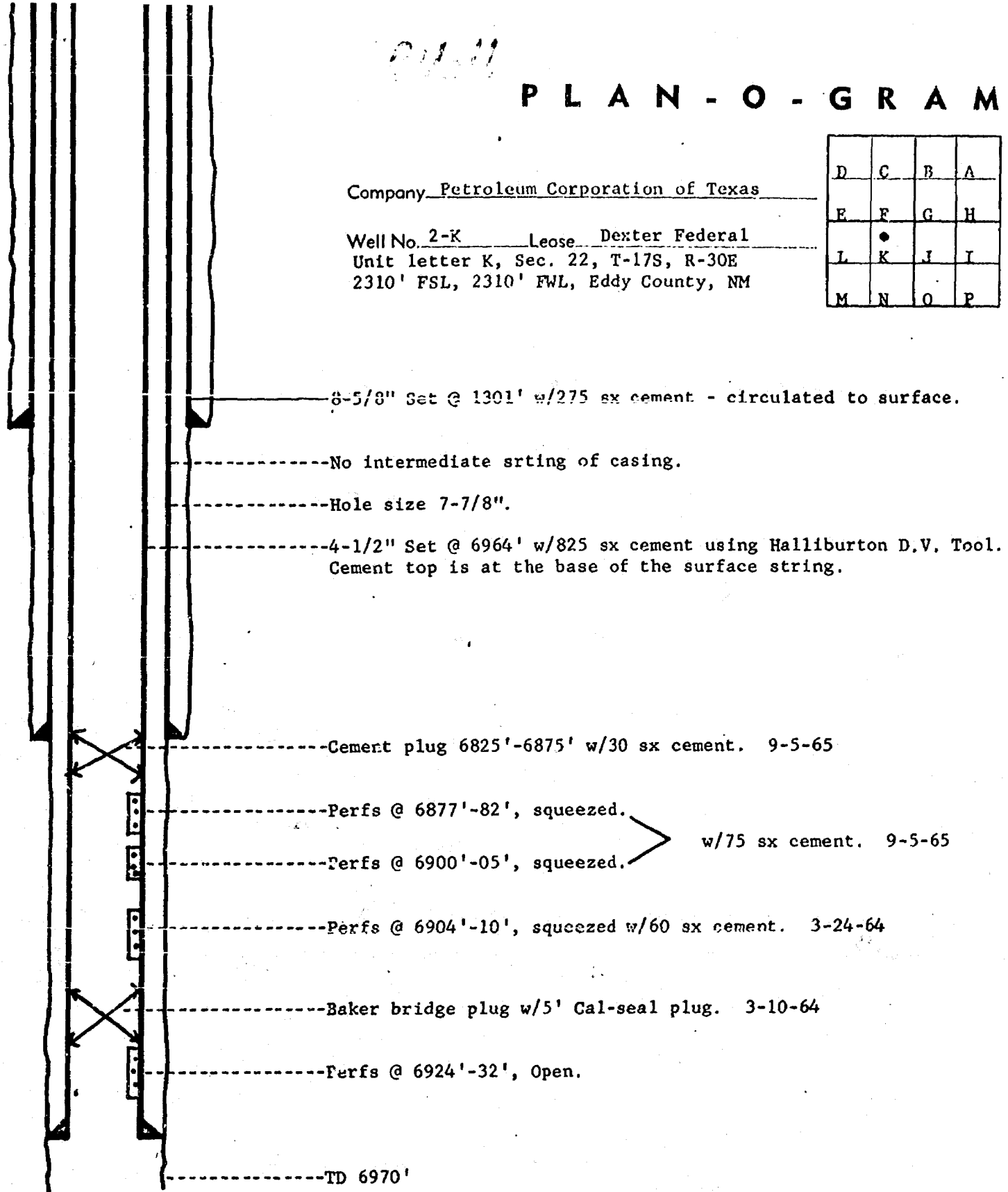


PLAN - O - G R A M

Company Petroleum Corporation of Texas

Well No. 2-K Lease Dexter Federal
Unit letter K, Sec. 22, T-17S, R-30E
2310' FSL, 2310' FWL, Eddy County, NM

D	C	B	A
E	F	G	H
L	K	J	I
M	N	O	P



Cementing

Special Tools

Acidizing

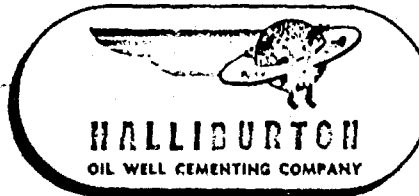
Chemical Services

284 SERVICE CENTERS . . .

JUST MINUTES AWAY FROM YOUR WELL!

Formation Testing

Fracturing



Dump Bailer

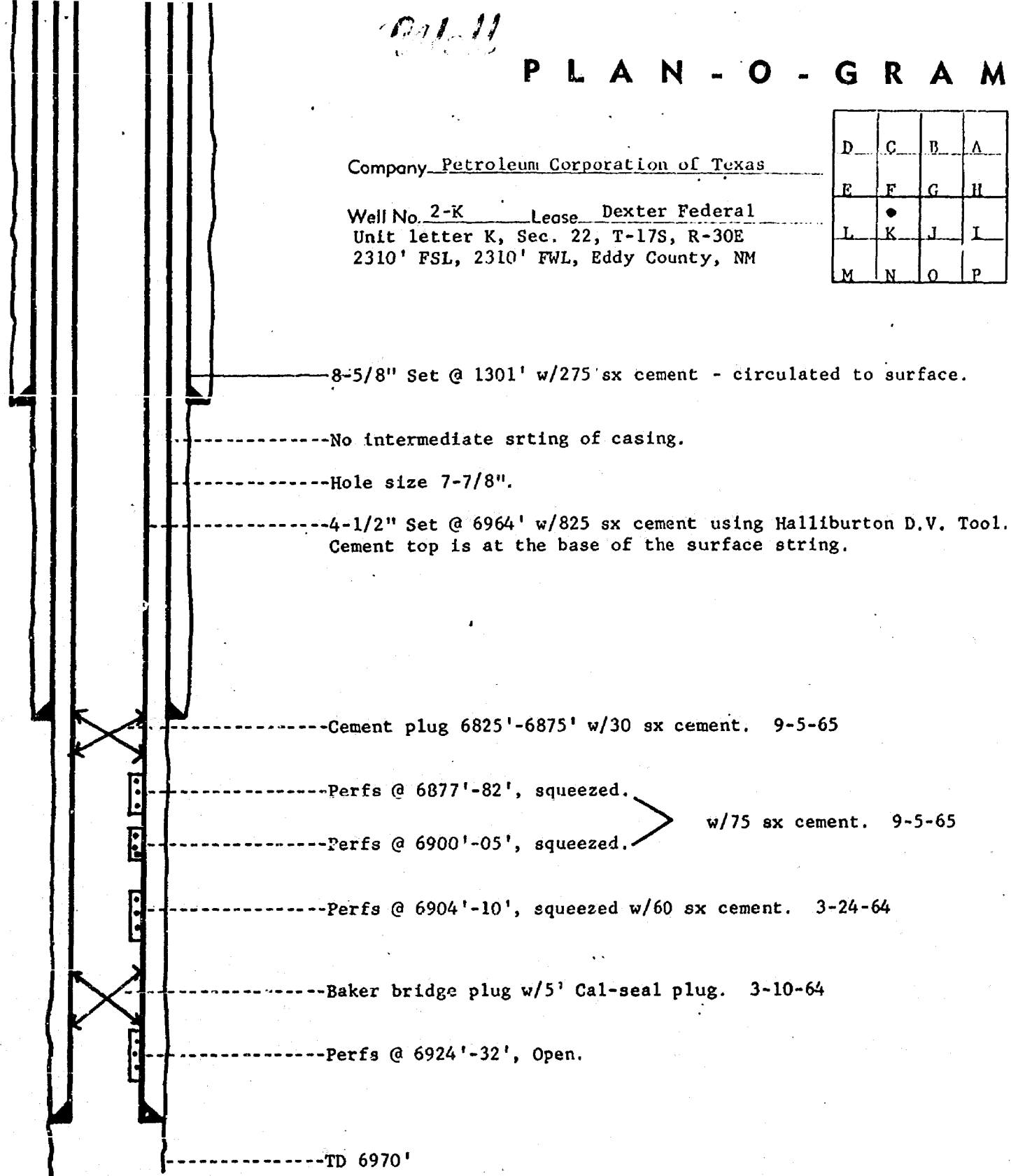
Casing Equipment

PLAN - O - G R A M

Company Petroleum Corporation of Texas

Well No. 2-K Lease Dexter Federal
Unit letter K, Sec. 22, T-17S, R-30E
2310' FSL, 2310' FWL, Eddy County, NM

D	C	B	A
E	F	G	H
L	K	J	I
M	N	O	P



Cementing

Special Tools

Acidizing

Chemical Services

284 SERVICE CENTERS

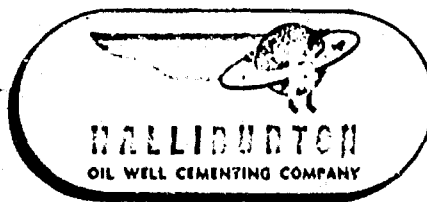
JUST MINUTES AWAY FROM YOUR WELL

Formation Testing

Fracturing

Dump Bailer

Casing Equipment

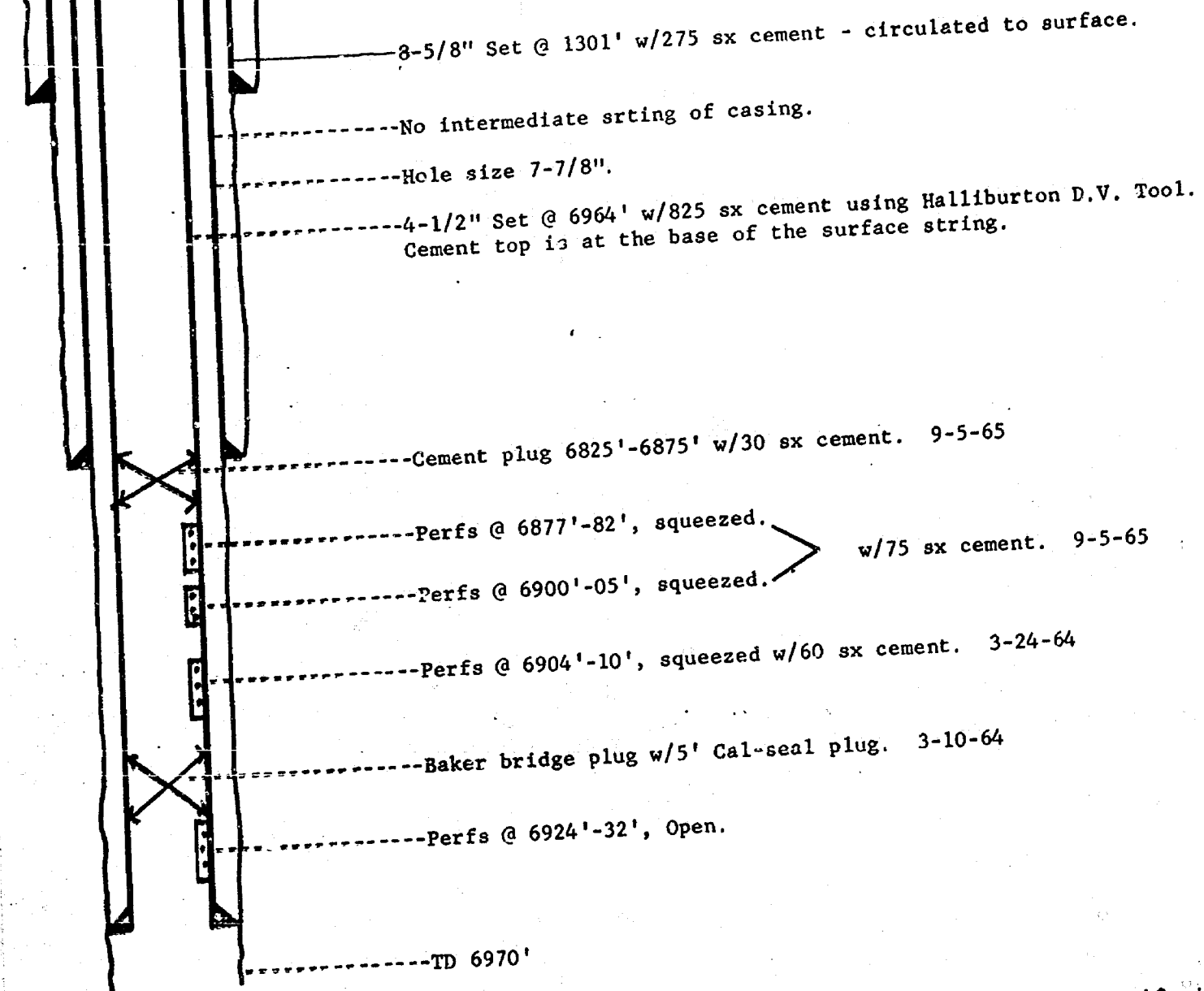


PLAN - O - G R A M

Company Petroleum Corporation of Texas

Well No. 2-K Lease Dexter Federal
Unit letter K, Sec. 22, T-17S, R-30E
2310' FSL, 2310' FWL, Eddy County, NM

D	C	B	A
E	F	G	H
I	K	J	I
M	N	O	P



Cementing

304 SERVICE CENTERS

Formation Testing

Special Tools

Fracturing

HALLIBURTON
OIL WELL CEMENTING COMPANY

Acidizing

JUST MINUTES AWAY FROM YOUR WELL!

Dump Bailer

Chemical Services

Casing Equipment

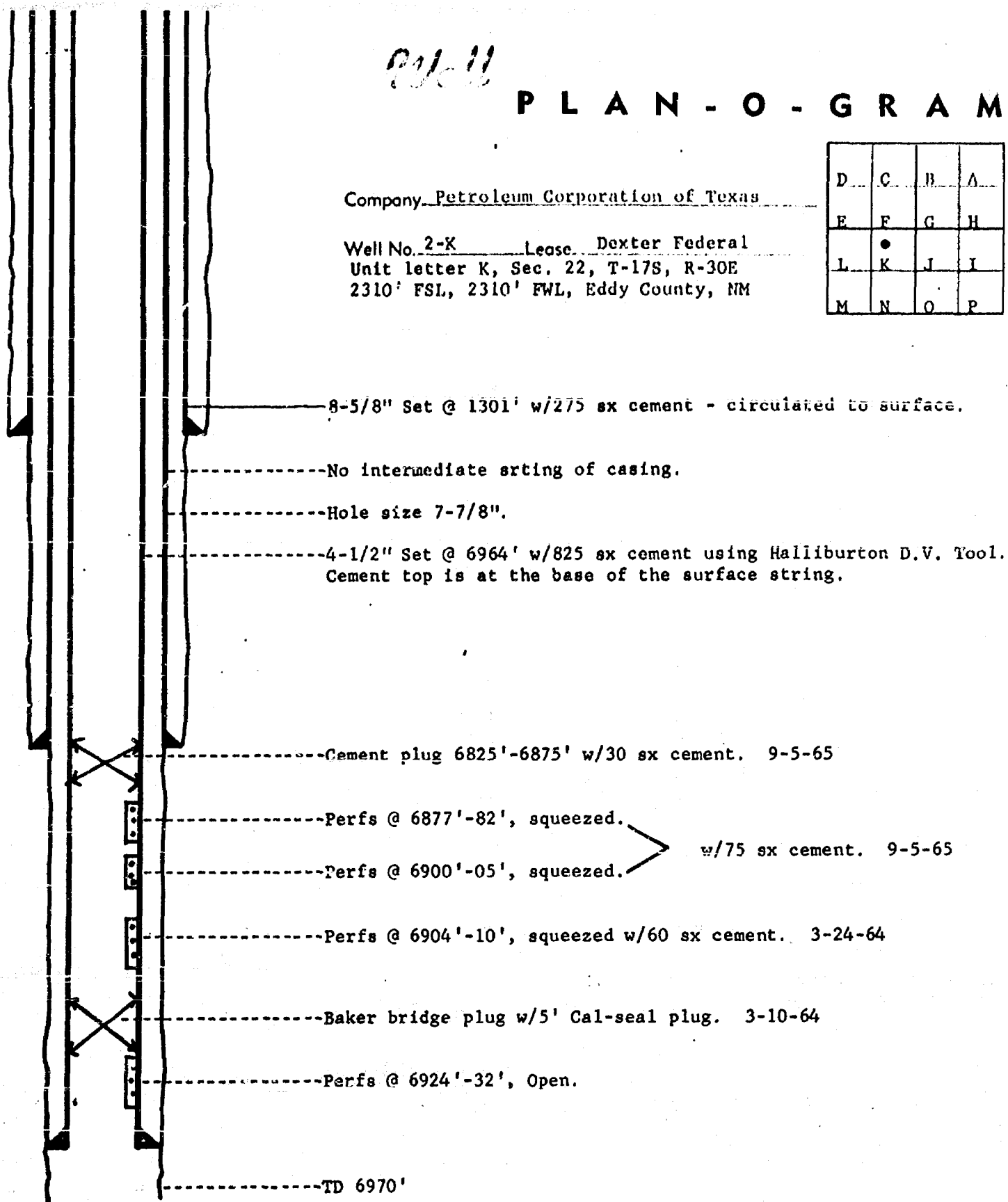
91-11

PLAN - O - G R A M

Company Petroleum Corporation of Texas

Well No. 2-X Lease Dexter Federal
Unit letter K, Sec. 22, T-17S, R-30E
2310' FSL, 2310' FWL, Eddy County, NM

D	C	B	A
E	F	G	H
L	K	J	I
M	N	O	P



Cementing

Special Tools

Acidizing

Chemical Services

284 SERVICE CENTERS . . .

JUST MINUTES AWAY FROM YOUR WELL

Formation Testing

Fracturing

Dump Bailer

Casing Equipment

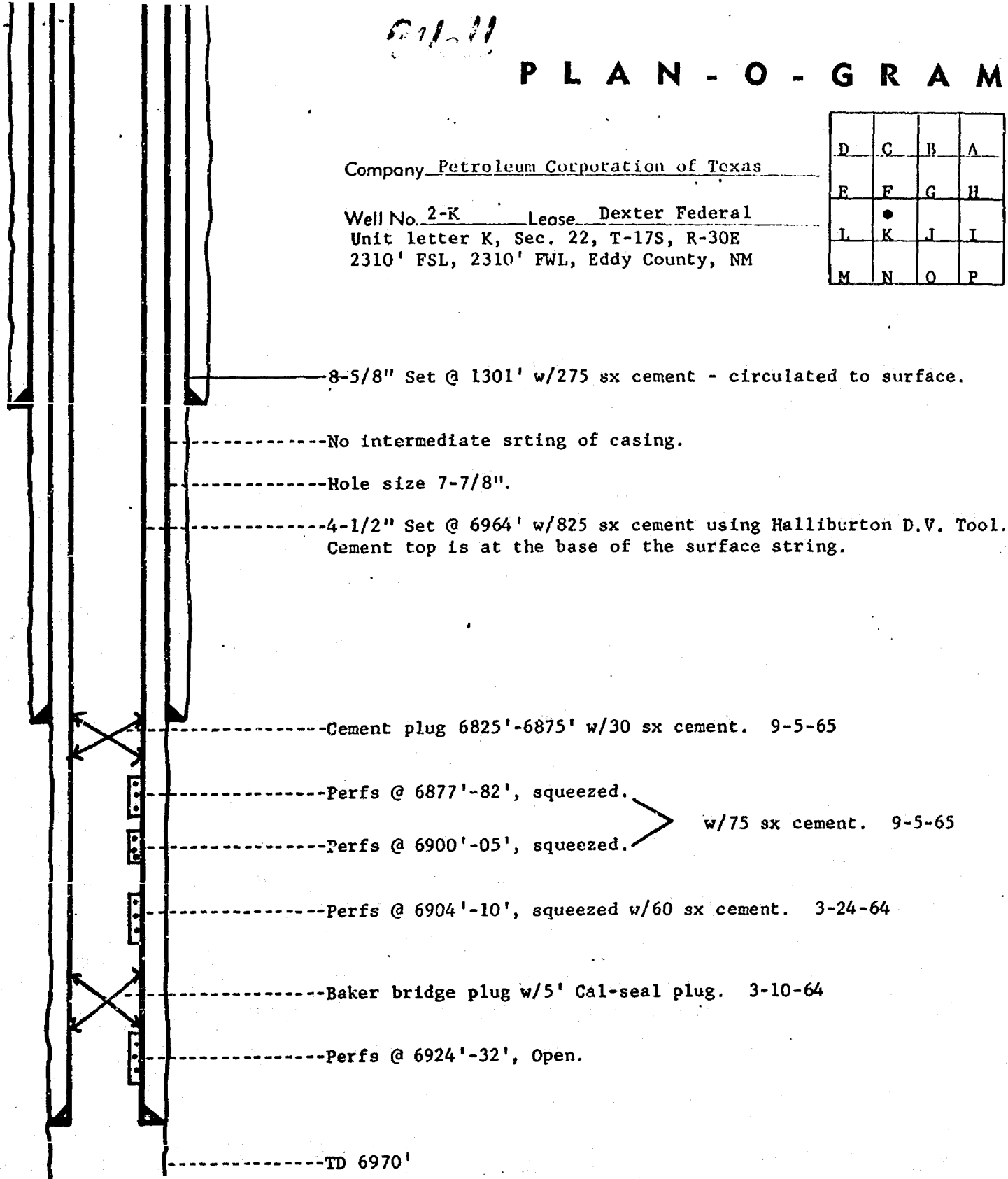


PLAN - O - G R A M

Company Petroleum Corporation of Texas

Well No. 2-K Lease Dexter Federal
Unit letter K, Sec. 22, T-17S, R-30E
2310' FSL, 2310' FWL, Eddy County, NM

D	C	B	A
E	F	G	H
L	K	J	I
M	N	O	P



Cementing

Special Tools

Acidizing

Chemical Services

284 SERVICE CENTERS

JUST MINUTES AWAY FROM YOUR WELL

Formation Testing

Fracturing

Dump Bailer

Casing Equipment



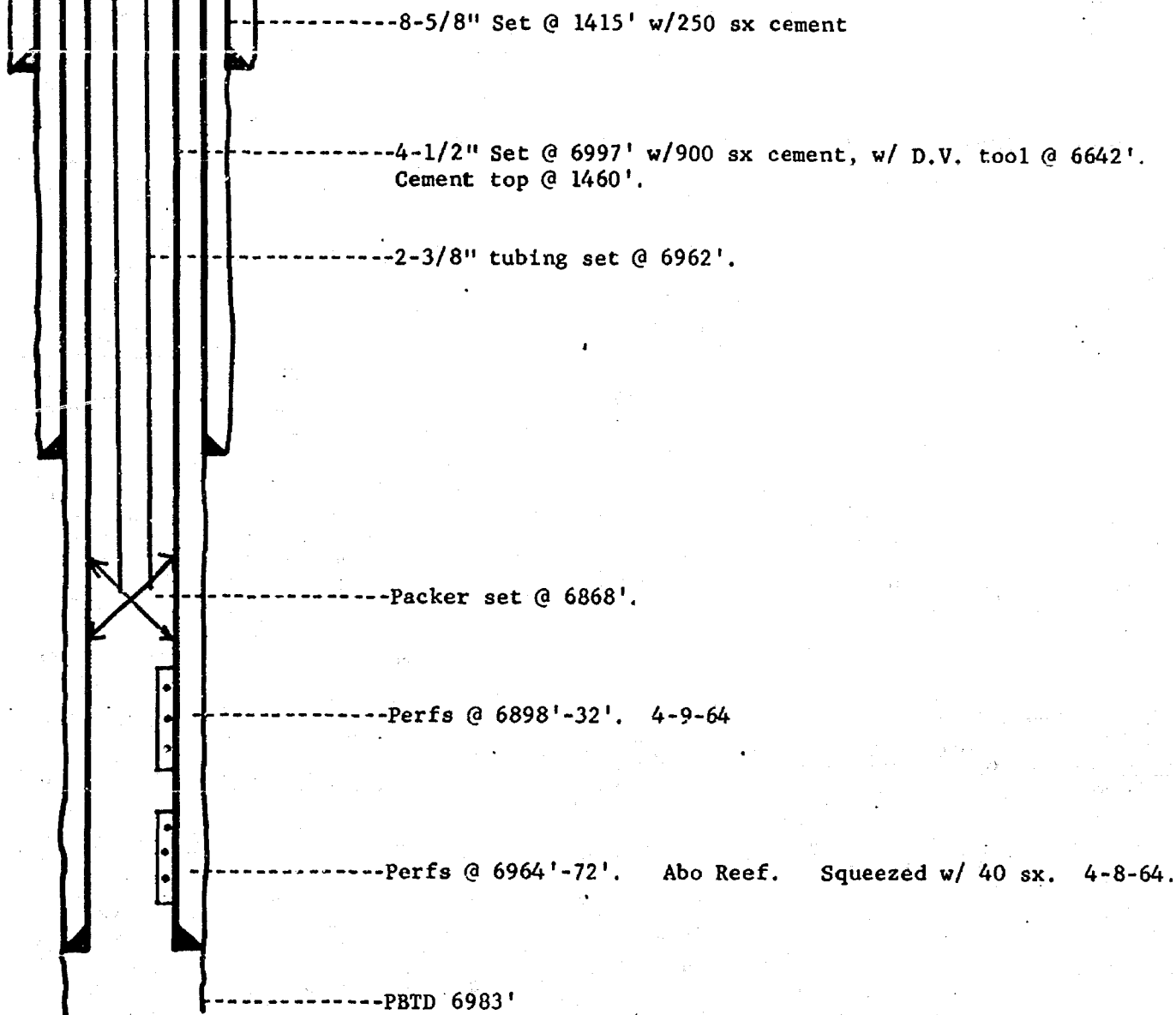
Well

PLAN-O-GRAM

Company Petroleum Corporation of Texas

Well No. 1-J Lease Graridge Federal
Unit Letter J, Sec 22, T-17S, R-30E
Eddy County, NM

D	C	B	A
E	F	G	H
L	K	J	I
M	N	O	P



Cementing

Special Tools

Acidizing

Chemical Services

24 SERVICE CENTERS . . .

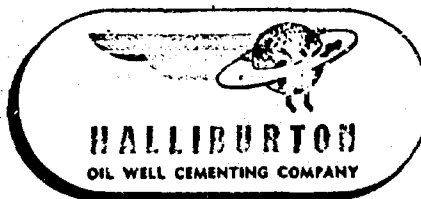
JUST MINUTES AWAY FROM YOUR WELL

Formation Testing

Fracturing

Dump Bailer

Casing Equipment



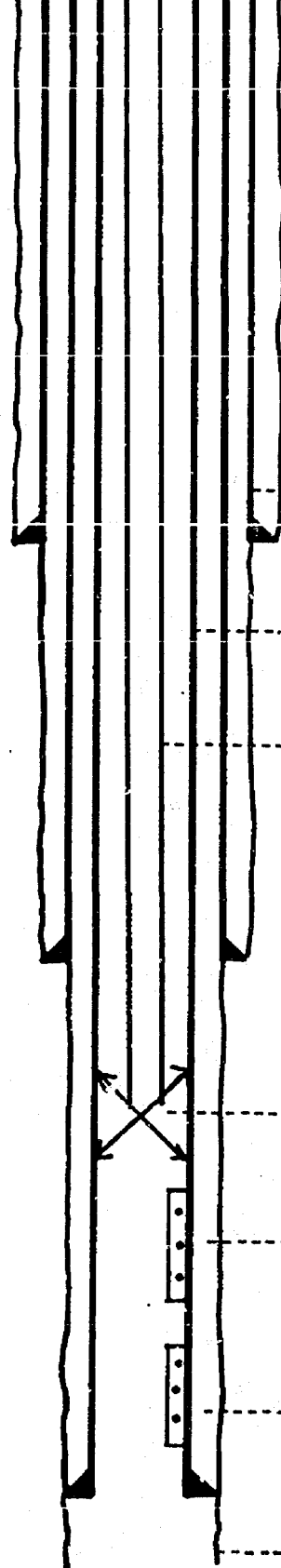
Well

PLAN - O - G R A M

Company Petroleum Corporation of Texas

Well No. 1-J Lease Graridge Federal
Unit Letter J, Sec 22, T-17S, R-30E
Eddy County, NM

D	C	B	A
E	F	G	H
L	K	J	I
M	N	O	P



-----8-5/8" Set @ 1415' w/250 sx cement

-----4-1/2" Set @ 6997' w/900 sx cement, w/ D.V. tool @ 6642'.
Cement top @ 1460'.

-----2-3/8" tubing set @ 6962'.

-----Packer set @ 6868'.

-----Perfs @ 6898'-32'. 4-9-64

-----Perfs @ 6964'-72'. Abo Reef. Squeezed w/ 40 sx. 4-8-64.

-----PBTD 6983'

Cementing

Special Tools

Acidizing

Chemical Services

284 SERVICE CENTERS . . .

JUST MINUTES AWAY FROM YOUR WELL!

Formation Testing

Fracturing

HALLIBURTON
OIL WELL CEMENTING COMPANY

Dump Bailer

Casing Equipment

Pitell

P L A N - O - G R A M

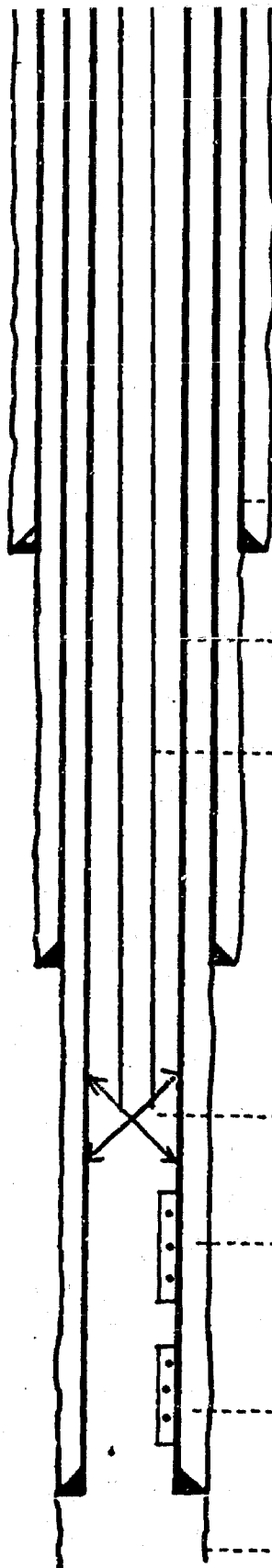
Company Petroleum Corporation of Texas

Well No. 1-J Lease Graridge Federal

Unit Letter J, Sec 22, T-17S, R-30E

Eddy County, NM

D	C	B	A
E	F	G	H
L	K	J	I
M	N	O	P



-----8-5/8" Set @ 1415' w/250 sx cement

-----4-1/2" Set @ 6997' w/900 sx cement, w/ D.V. tool @ 6642'.
Cement top @ 1460'.

-----2-3/8" tubing set @ 6962'.

-----Packer set @ 6868'.

-----Perfs @ 6898'-32'. 4-9-64

-----Perfs @ 6964'-72'. Abo Reef. Squeezed w/ 40 sx. 4-8-64.

-----PBTD 6983'

Cementing

Special Tools

Acidizing

Chemical Services

284 SERVICE CENTERS . . .

JUST MINUTES AWAY FROM YOUR WELL!

Formation Testing

Fracturing

Dump Bailer

Casing Equipment



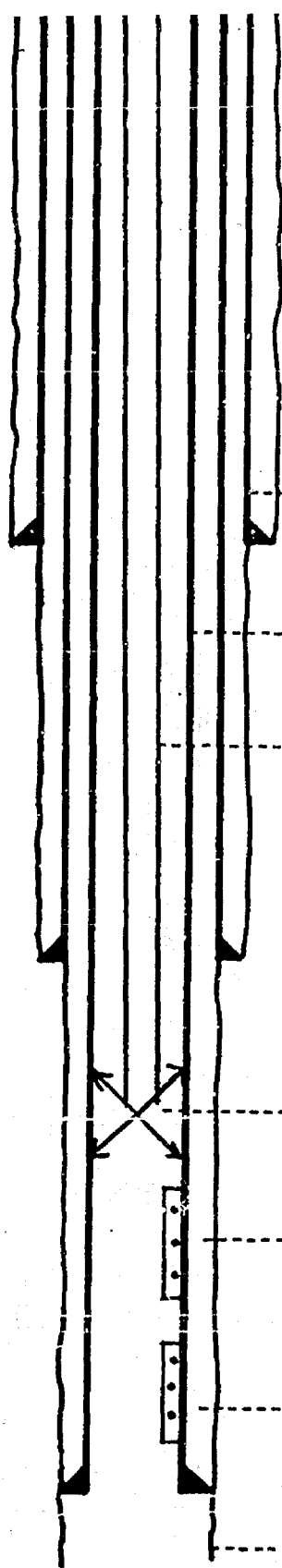
Plan

PLAN - O - G R A M

Company Petroleum Corporation of Texas

Well No. 1-J Lease Graridge Federal
Unit Letter J, Sec 22, T-17S, R-30E
Eddy County, NM

D	C	B	A
E	F	G	H
L	K	J	I
M	N	O	P



-----8-5/8" Set @ 1415' w/250 sx cement

-----4-1/2" Set @ 6997' w/900 sx cement, w/ D.V. tool @ 6642'.
Cement top @ 1460'.

-----2-3/8" tubing set @ 6962'.

-----Packer set @ 6868'.

-----Perfs @ 6898'-32'. 4-9-64

-----Perfs @ 6964'-72'. Abc Reef. Squeezed w/ 40 sx. 4-8-64.

-----PBTD 6983'

Cementing

Special Tools

Acidizing

Chemical Services

264 SERVICE CENTERS . . .

JUST MINUTES AWAY FROM YOUR WELL!

Formation Testing

Fracturing

Dump Bailer

Casing Equipment



Well

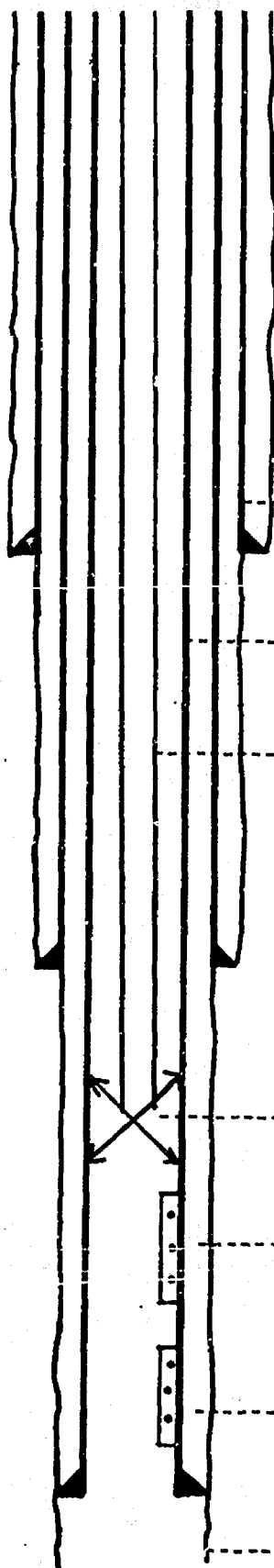
PLAN-O-GRAM

Company Petroleum Corporation of Texas

Well No. 1-J Lease Graridge Federal

Unit Letter J, Sec 22, T-17S, R-30E
Eddy County, NM

D	C	B	A
E	F	G	H
L	K	J	I
M	N	O	P



-----8-5/8" Set @ 1415' w/250 sx cement

-----4-1/2" Set @ 6997' w/900 sx cement, w/ D.V. tool @ 6642'.
Cement top @ 1460'.

-----2-3/8" tubing set @ 6962'.

-----Packer set @ 6868'.

-----Perfs @ 6898'-32'. 4-9-64

-----Perfs @ 6964'-72'. Abo Reef. Squeezed w/ 40 sx. 4-8-64.

-----PBTD 6983'

Cementing

Special Tools

Acidizing

Chemical Services

284 SERVICE CENTERS . . .

JUST MINUTES AWAY FROM YOUR WELL!

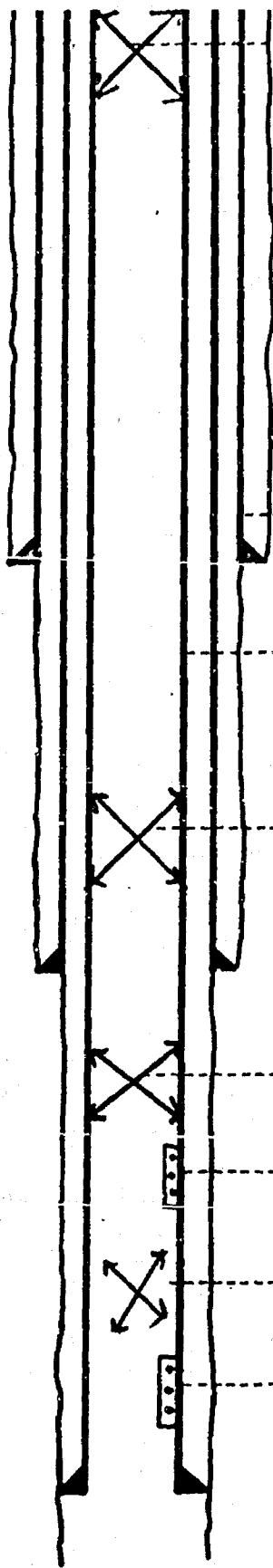
Formation Testing

Fracturing

Dump Bailer

Casing Equipment





10 sx cement plug. Well is P & A.

Well

P L A N - O - G R A M

Company Atlantic Richfield Company
Box 1978, Roswell, NM

Well No. 5 Lease Dale H. Parke, "B" Tr. A
Unit letter L, Sec. 23, T-17S, R-30E
2310' FSL & 990' FWL, Eddy County, NM

D	C	B	A
E	F	G	H
L	K	J	I
M	N	O	P

9-5/8" Set @ 1600'.

4-1/2" Set @ 6940' w/600 sx cement.

20 sx cement plug 2356'-2125'.

CIBP Set @ 6810' w/3 sx cement on top.

Perfs @ 6831'-64'. 8-4-67

CIBP Set @ 6875'. 8-1-67

Perfs @ 6890'-16'. Abo Reef. Squeezed w/100 sx cement. 8-2-67

Cementing

Special Tools

Acidizing

Chemical Services

284 SERVICE CENTERS

JUST MINUTES AWAY FROM YOUR WELL

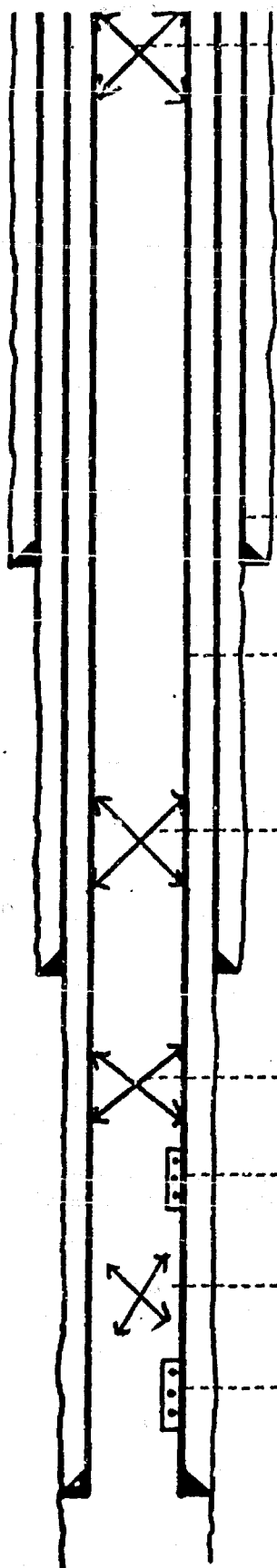
Formation Testing

Fracturing

Dump Bailer

Casing Equipment





10 sx cement plug. Well is P & A.

20k 11

PLAN - O - G R A M

Company Atlantic Richfield Company
Box 1978, Roswell, NM

Well No. 5 Lease Dale H. Parke, "B" Tr. A
Unit letter L, Sec. 23, T-17S, R-30E
2310' FSL & 990' FWL, Eddy County, NM

D	C	B	A
E	F	G	H
• L	K	J	I
M	N	O	P

9-5/8" Set @ 1600'.

4-1/2" Set @ 6940' w/600 sx cement.

20 sx cement plug 2356'-2125'.

CIBP Set @ 6810' w/3 sx cement on top.

Perfs @ 6831'-64'. 8-4-67

CIBP Set @ 6875'. 8-1-67

Perfs @ 6890'-16'. Abo Reef. Squeezed w/100 sx cement. 8-2-67

Cementing

Special Tools

Acidizing

Chemical Services

24 SERVICE CENTERS

JUST MINUTES AWAY FROM YOUR WELL

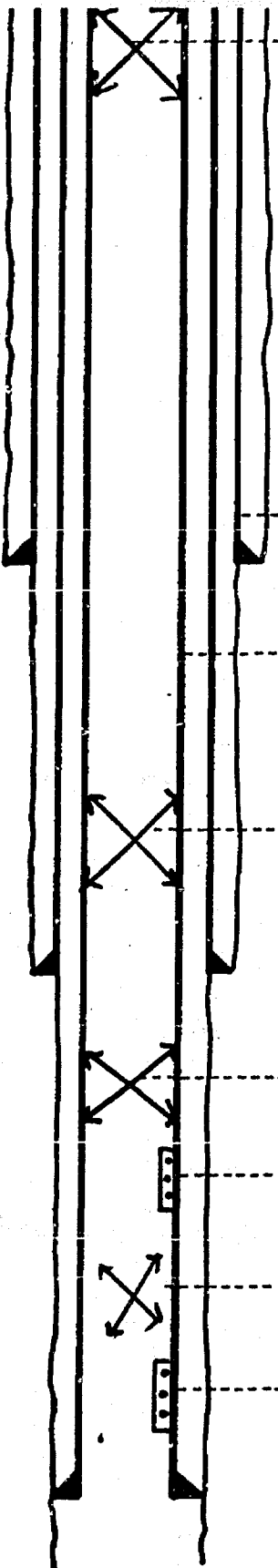
Formation Testing

Fracturing

Dump Bailer

Casing Equipment





10 sx cement plug. Well is P & A.

Well

P L A N - O - G R A M

Company Atlantic Richfield Company
Box 1978, Roswell, NM

Well No. 5 Lease Dale H. Parke, "B" Tr. A
 Unit letter L, Sec. 23, T-17S, R-30E
2310' FSL & 990' FWL, Eddy County, NM

D	C	B	A
E	F	G	H
● L	K	J	I
M	N	O	P

9-5/8" Set @ 1600'.

4-1/2" Set @ 6940' w/600 sx cement.

20 sx cement plug 2356'-2125'.

CIBP Set @ 6810' w/3 sx cement on top.

Perfs @ 6831'-64'. 8-4-67

CIBP Set @ 6875'. 8-1-67

Perfs @ 6890'-16'. Abo Reef. Squeezed w/100 sx cement. 8-2-67

Cementing

Special Tools

Acidizing

Chemical Services

284 SERVICE CENTERS . . .

JUST MINUTES AWAY FROM YOUR WELL!

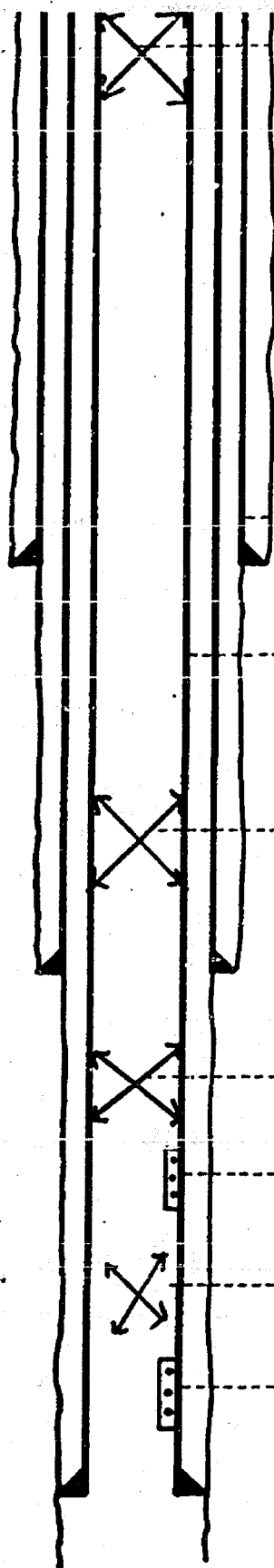
Formation Testing

Fracturing

Dump Bailer

Casing Equipment





10 sx cement plug. Well is P & A.

Well

P L A N - O - G R A M

Company Atlantic Richfield Company
Box 1978, Roswell, NM

Well No. 5 Lease Dale H. Parke, "B" Tr. A
 Unit letter L, Sec. 23, T-17S, R-30E
 2310' FSL & 990' FWL, Eddy County, NM

D	C	B	A
E	F	G	H
L	K	J	I
M	N	O	P

9-5/8" Set @ 1600'.

4-1/2" Set @ 6940' w/600 sx cement.

20 sx cement plug 2356'-2125'.

CIBP Set @ 6810' w/3 sx cement on top.

Perfs @ 6831'-64'. 8-4-67

CIBP Set @ 6875'. 8-1-67

Perfs @ 6890'-16'. Abo Reef. Squeezed w/100 sx cement. 8-2-67

Cementing

Special Tools

Acidizing

Chemical Services

Formation Testing

Fracturing

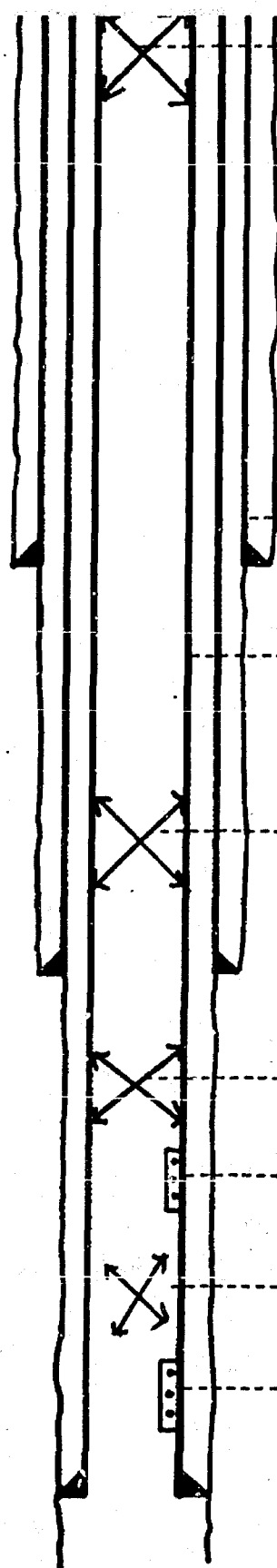
Dump Bailer

Casing Equipment



284 SERVICE CENTERS

JUST MINUTES AWAY FROM YOUR WELL



10 sx cement plug. Well is P & A.

Well

PLAN - O - G R A M

Company Atlantic Richfield Company
Box 1978, Roswell, NM

Well No. 5 Lease Dale H. Parke, "B" Tr. A
 Unit letter L, Sec. 23, T-17S, R-30E
2310' FSL & 990' FWL, Eddy County, NM

D	C	B	A
E	F	G	H
• L	K	J	I
M	N	O	P

9-5/8" Set @ 1600'.

4-1/2" Set @ 6940' w/600 sx cement.

20 sx cement plug 2356'-2125'.

CIBP Set @ 6810' w/3 sx cement on top.

Perfs @ 6831'-64'. 8-4-67

CIBP Set @ 6875'. 8-1-67

Perfs @ 6890'-16'. Abo Reef. Squeezed w/100 sx cement. 8-2-67

Cementing

Special Tools

Acidizing

Chemical Services

284 SERVICE CENTERS

JUST MINUTES AWAY FROM YOUR WELL

Formation Testing

Fracturing



Dump Bailer

Casing Equipment

10 sx cement plug. Well is P & A.

Well

PLAN - O - G R A M

Company Atlantic Richfield Company
Box 1978, Roswell, NM

Well No. 5 Lease Dale H. Parke, "B" Tr. A
Unit letter L, Sec. 23, T-17S, R-30E
2310' FSL & 990' FWL, Eddy County, NM

D	C	B	A
E	F	G	H
L	K	J	I
M	N	O	P

9-5/8" Set @ 1600'.

4-1/2" Set @ 6940' w/600 sx cement.

20 sx cement plug 2356'-2125'.

CIBP Set @ 6810' w/3 sx cement on top.

Perfs @ 6831'-64'. 8-4-67

CIBP Set @ 6875'. 8-1-67

Perfs @ 6890'-16'. Abo Reef. Squeezed w/100 sx cement. 8-2-67

Cementing

Special Tools

Acidizing

Chemical Services

Formation Testing

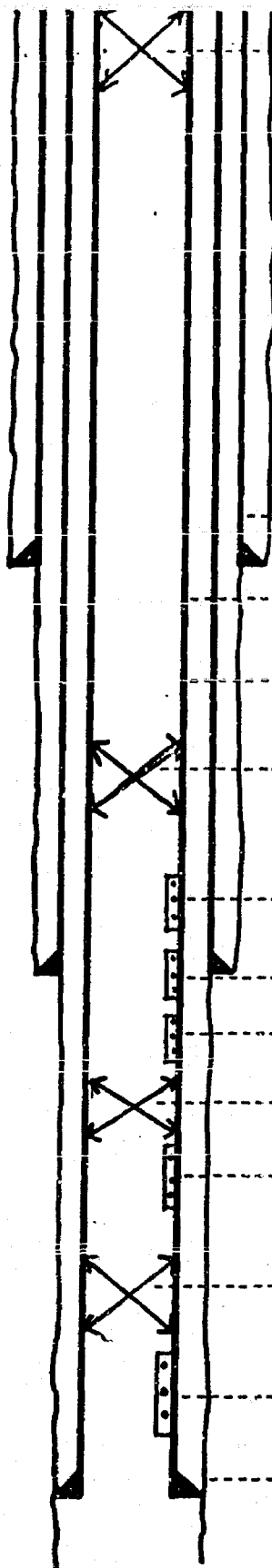
Fracturing

Dump Bailer

Casing Equipment

HALLIBURTON
OIL WELL CEMENTING COMPANY

JUST MINUTE AWAY FROM YOUR WELL



Surface plug 21' - 0'. Well P & A.

P L A N - O - G R A M

Company Shenandoa Oil Corporation
 1500 Commerce Bldg, Ft. Worth, Tx
 Well No. 5 Lease Gissler "A"
 Unit Letter F, Sec. 23, T-17S, R-30E
 2310' FNL & 1710' FWL, Eddy County, NM

D	C	B	A
E	F	G	H
L	K	J	I
M	N	O	P

8-5/8" Set @ 1470' w/450 sx cement.

Hole size 8".

4-1/2" Set @ 6995' w/1300 sx cement. Top cement estimated @ 1200'.

CIBP Set @ 1810' w/36' cement on top.

Perfs @ 1874'-78'.

Perfs @ 1890'-94'.

Perfs @ 2050'-51'.

CIBP @ 2950' w/35' cement on top.

Perfs @ 3020'-28'.

Packer depth not on forms.

Johnson 4-1/2" cast iron bridge plug w/3-1/2 sx cement on top.
 Top cement - 6815'.

Perfs @ 6910'-30'. Abo Reef - Squeezed, date unknown.

PBTD 6961'.

Cementing

Special Tools

Acidizing

Chemical Services

284 SERVICE CENTERS . . .

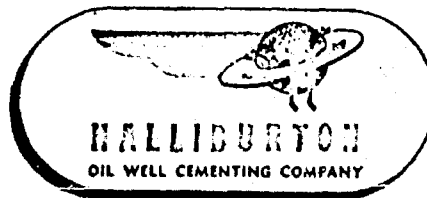
JUST MINUTES AWAY FROM YOUR WELL!

Formation Testing

Fracturing

Dump Bailer

Casing Equipment



Surface plug 21' - 0'. Well P & A.

PLAN - O - G R A M

Company Shenandoa Oil Corporation
1500 Commerce Bldg, Ft. Worth, Tx
Well No. 5 Lease Gissler "A"
Unit Letter F, Sec. 23, T-17S, R-30E
2310' FNL & 1710' FWL, Eddy County, NM

D	C	B	A
E	F	G	H
L	K	J	I
M	N	O	P

-----8-5/8" Set @ 1470' w/450 sx cement.

-----Hole size 8".

-----4-1/2" Set @ 6995' w/1300 sx cement. Top cement estimated @ 1200'.

-----CIBP Set @ 1810' w/36' cement on top.

-----Perfs @ 1874'-78'.

-----Perfs @ 1890'-94'.

-----Perfs @ 2050'-51'.

-----CIBP @ 2950' w/35' cement on top.

-----Perfs @ 3020'-28'.

Packer depth not on forms.

-----Johnson 4-1/2" cast iron bridge plug w/3-1/2 sx cement on top.
Top cement - 6815'.

-----Perfs @ 6910'-30'. Abo Reef - Squeezed, date unknown.

-----PETD 6961'.

Cementing

Special Tools

Acidizing

Chemical Services

284 SERVICE CENTERS . . .

JUST MINUTES AWAY FROM YOUR WELL

Formation Testing

Fracturing

Dump Bailer

Casing Equipment



Surface plug 21' - 0'. Well P & A.

PLAN - O - GRAM

Company Shenandoa Oil Corporation
1500 Commerce Bldg, Ft. Worth, Tx
Well No. 5 Lease Gissler "A"
Unit Letter F, Sec. 23, T-17S, R-30E
2310' FNL & 1710' FWL, Eddy County, NM

D	C	B	A
E	F	G	H
L	K	J	I
M	N	O	P

-----8-5/8" Set @ 1470' w/450 sx cement.

-----Hole size 8".

-----4-1/2" Set @ 6995' w/1300 sx cement. Top cement estimated @ 1200'.

-----CIBP Set @ 1810' w/36' cement on top.

-----Perfs @ 1874'-78'.

-----Perfs @ 1890'-94'.

-----Perfs @ 2050'-51'.

-----CIBP @ 2930' w/35' cement on top.

-----Perfs @ 3020'-28'.

Packer depth not on forms.

-----Johnson 4-1/2" cast iron bridge plug w/3-1/2 sx cement on top.
Top cement - 6815'.

-----Perfs @ 6910'-30'. Abo Reef - Squeezed, date unknown.

-----PBTD 6961'.

Cementing

Special Tools

Acidizing

Chemical Services

284 SERVICE CENTERS

Formation Testing

Fracturing

HALLIBURTON
OIL WELL CEMENTING COMPANY

JUST MINUTES AWAY FROM YOUR WELL!

Dump Bailer

Casing Equipment

Surface plug 21' - 0'. Well P & A.

PLAN - O - G R A M

Company Shenandoa Oil Corporation
1500 Commerce Bldg, Ft. Worth, Tx
Well No. 5 Lease Gissler "A"
Unit Letter F, Sec. 23, T-17S, R-30E
2310' FNL & 1710' FWL, Eddy County, NM

D	C	B	A
E	F	G	H
L	K	J	I
M	N	O	P

-----8-5/8" Set @ 1470' w/450 sx cement.

-----Hole size 8".

-----4-1/2" Set @ 6995' w/1300 sx cement. Top cement estimated @ 1200'.

-----CIBP Set @ 1810' w/36' cement on top.

-----Perfs @ 1874'-78'.

-----Perfs @ 1890'-94'.

-----Perfs @ 2050'-51'.

-----CIBP @ 2950' w/35' cement on top.

-----Perfs @ 3020'-28'.

Packer depth not on forms.

-----Johnson 4-1/2" cast iron bridge plug w/3-1/2 sx cement on top.
Top cement - 6815'.

-----Perfs @ 6910'-30'. Abo Reef - Squeezed, date unknown.

-----PBTD 6961'.

Cementing

Special Tools

Acidizing

Chemical Services

284 SERVICE CENTERS

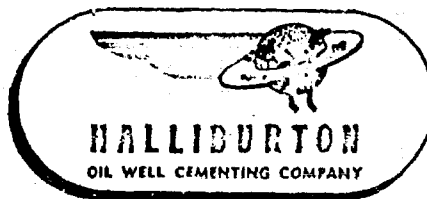
JUST MINUTES AWAY FROM YOUR WELL!

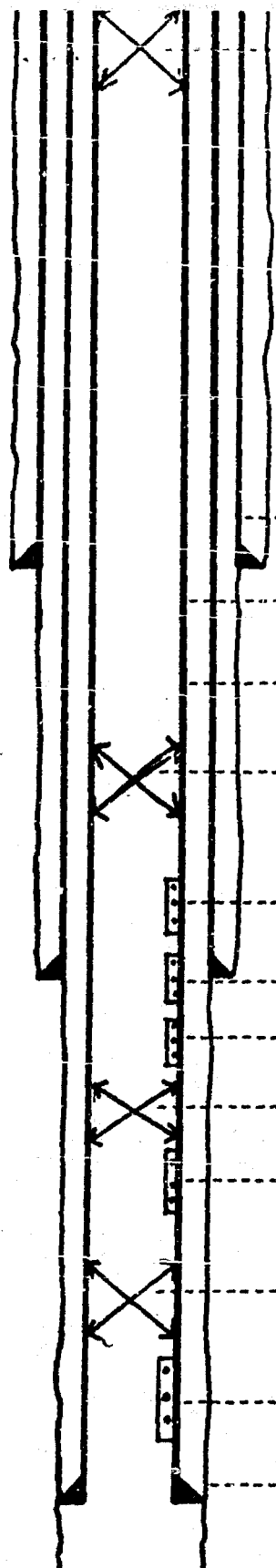
Formation Testing

Fracturing

Dump Bailer

Casing Equipment





Surface plug 21' - 0'. Well P & A.

PLAN - O - G R A M

Company Shenandoa Oil Corporation
 1500 Commerce Bldg. Ft. Worth, Tx
 Well No. 5 Lease Gissler "A"
 Unit Letter F, Sec. 23, T-17S, R-30E
 2310' FNL & 1710' FWL, Eddy County, NM

D	C	B	A
E	F	G	H
L	K	J	I
M	N	O	P

8-5/8" Set @ 1470' w/450 sx cement.

Hole size 8".

4-1/2" Set @ 6995' w/1300 sx cement. Top cement estimated @ 1200'.

CIBP Set @ 1810' w/36' cement on top.

Perfs @ 1874'-78'.

Perfs @ 1890'-94'.

Perfs @ 2050'-51'.

CIBP @ 2950' w/35' cement on top.

Perfs @ 3020'-23'.

Packer depth not on forms.

Johnson 4-1/2" cast iron bridge plug w/3-1/2 sx cement on top.
 Top cement - 6815'.

Perfs @ 6910'-30'. Abo Reef - Squeezed, date unknown.

PBTD 6961'.

Cementing

Special Tools

Acidizing

Chemical Services

284 SERVICE CENTERS . . .

JUST MINUTES AWAY FROM YOUR WELL!

Formation Testing

Fracturing

Dump Bailer

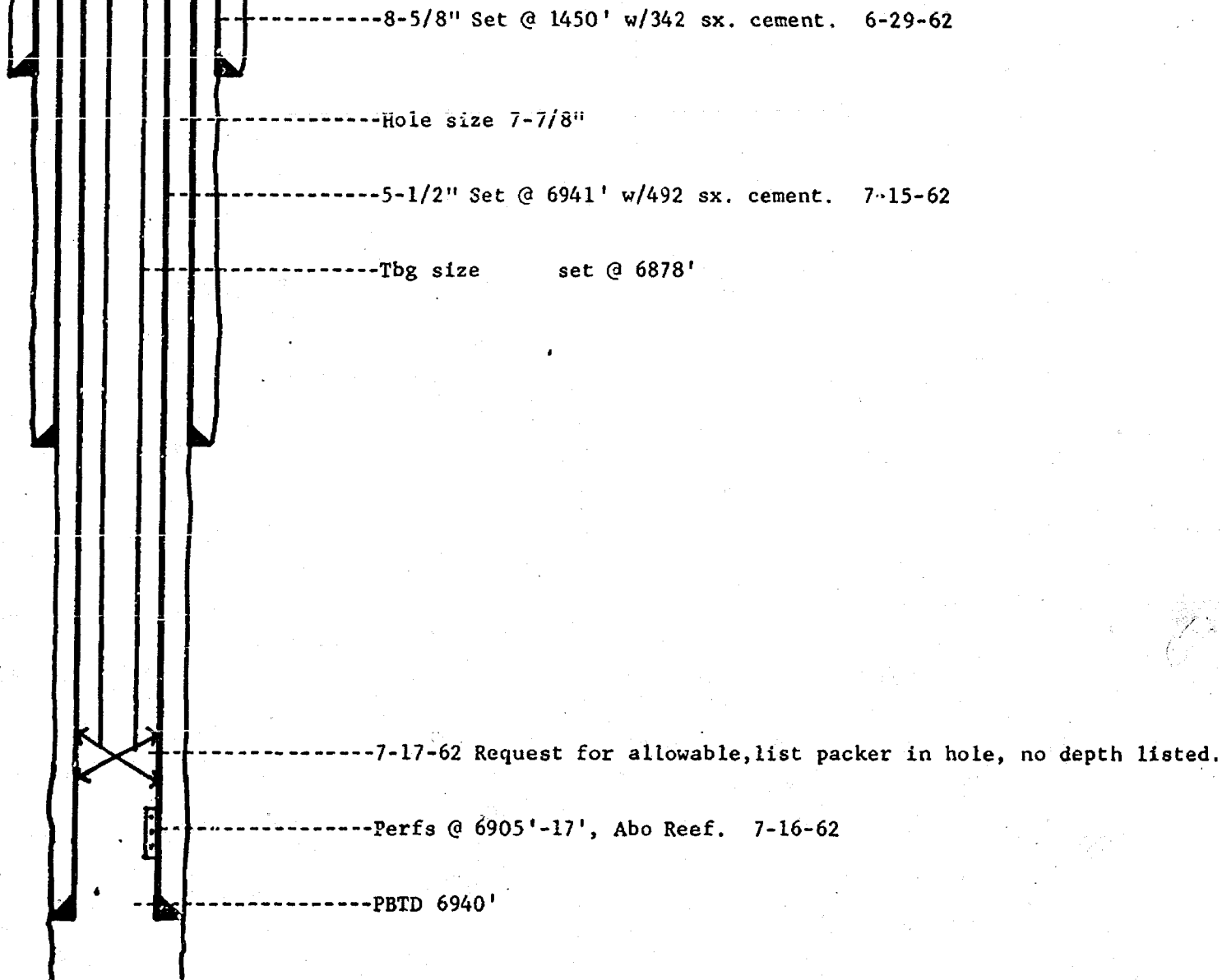
Casing Equipment



PLAN - O - G R A M

Company General American Oil Company of Texas
 Box 416 Loco Hills, NM
 Well No. 2 Lease Parke "E" Federal
 Unit Letter H, Sec. 22, T-17S, R-30E
 2310' FNL & 310' FEL, Eddy County, NM

D	C	B	A
E	F	G	H
L	K	J	I
M	N	O	P



Cementing

Special Tools

Acidizing

Chemical Services

284 SERVICE CENTERS

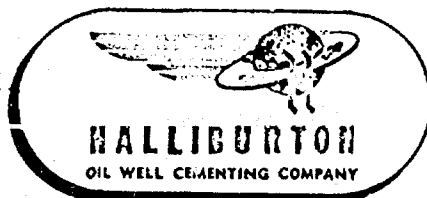
JUST MINUTES AWAY FROM YOUR WELL!

Formation Testing

Fracturing

Dump Bailer

Casing Equipment



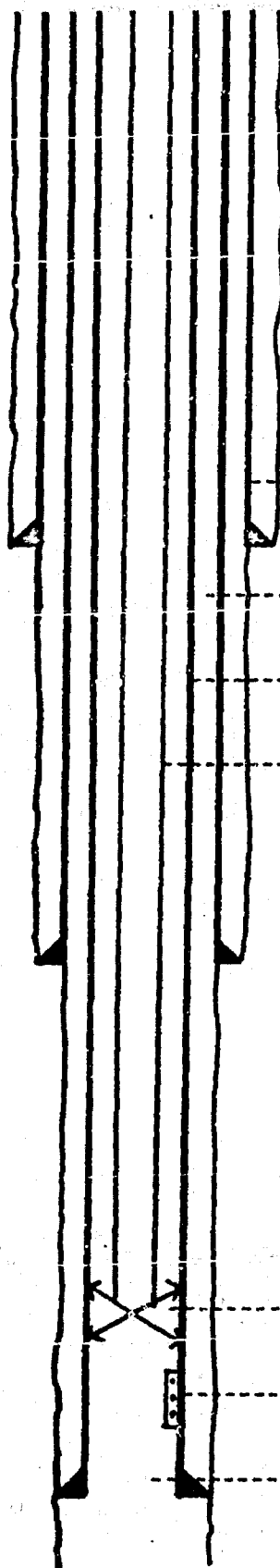
Well

P L A N - O - G R A M

Company General American Oil Company of Texas
Box 416 Loco Hills, NM.

Well No. 2 Lease Parke 'E' Federal
Unit Letter H, Sec. 22, T-17S, R-30E
2310' FNL & 310' FEL, Eddy County, NM

D	C	B	A
E	F	G	H
L	K	J	I
M	N	O	P



-----8-5/8" Set @ 1450' w/342 sx. cement. 6-29-62

-----Hole size 7-7/8"

-----5-1/2" Set @ 6941' w/492 sx. cement. 7-15-62

-----Tbg size set @ 6878'

-----7-17-62 Request for allowable, list packer in hole, no depth listed.

-----Perfs @ 6905'-17', Abo Reef. 7-16-62

-----PBTD 6940'

Cementing.

Special Tools

Acidizing

Chemical Services

284 SERVICE CENTERS

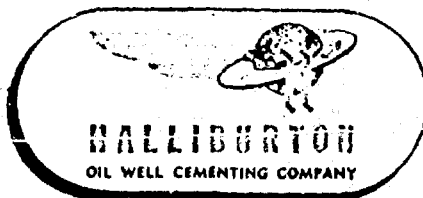
JUST MINUTES AWAY FROM YOUR WELL

Formation Testing

Fracturing

Dump Bailer

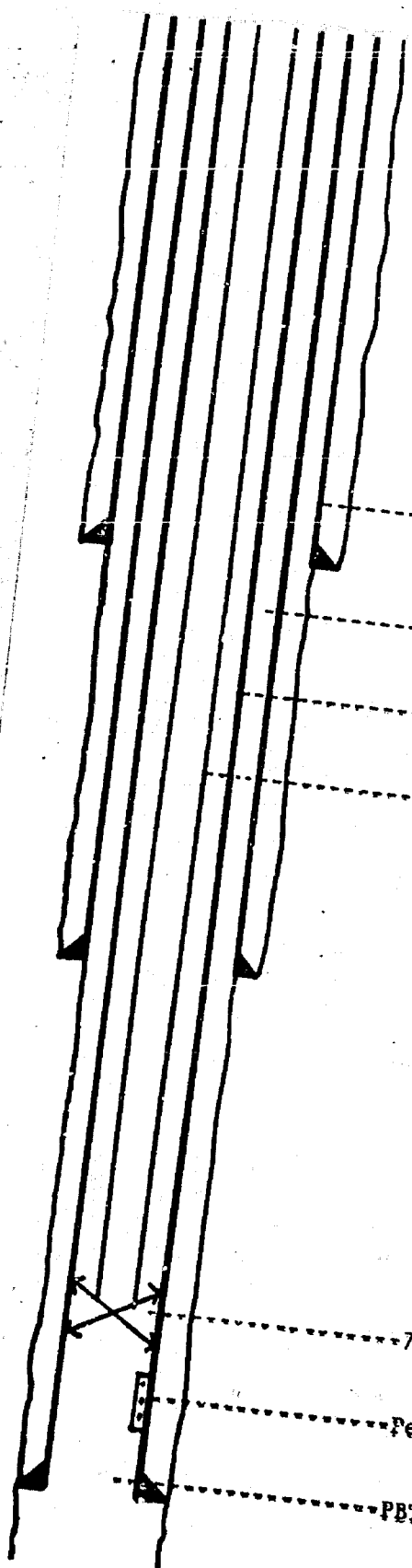
Casing Equipment



PLAN-O-GRAM

Company General American Oil Company of Texas
 Box 416 Loco Hills, NM
 Well No. 2 Lease Parke "E" Federal
 Unit Letter H, Sec. 22, T-17S, R-30E
 2310' FNL & 310' FEL, Eddy County, NM

D	C	B	A
E	F	G	H
L	K	J	I
M	N	O	P



8-5/8" Set @ 1450' w/342 sx. cement. 6-29-62

Hole size 7-7/8"

5-1/2" Set @ 6941' w/492 sx. cement. 7-15-62

Tbg size set @ 6878'

7-17-62 Request for allowable, list packer in hole, no depth listed.

Perfs @ 6905'-17', Abo Reef. 7-16-62

PBTD 6940'

Cementing

Special Tools

204 SERVICE CENTERS

Formation Testing

Fracturing



Acidizing

Chemical Services

JUST MINUTES AWAY FROM YOUR WELL!

Camp Bailer

Casing Equipment

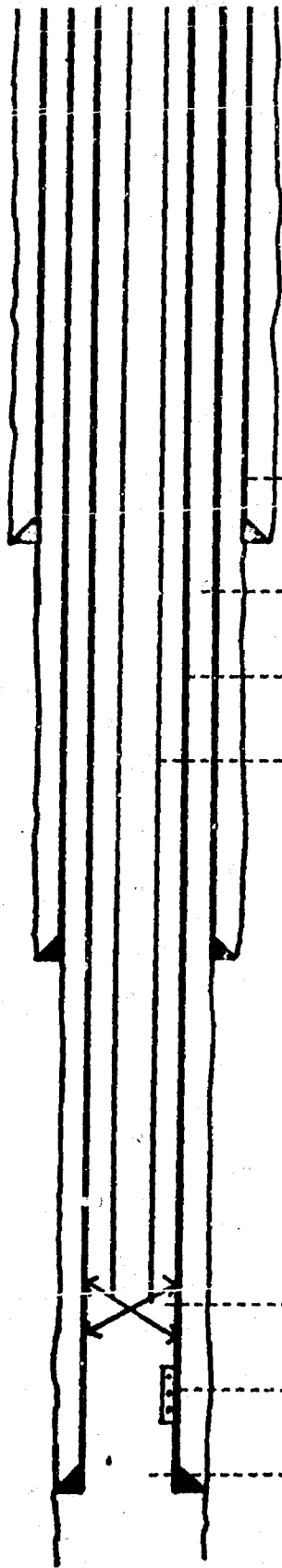
Call

PLAN - O - G R A M

Company General American Oil Company of Texas
Box 416 Loco Hills, NM

Well No. 2 Lease Parke "E" Federal
Unit Letter H, Sec. 22, T-17S, R-30E
2310' FNL & 310' FEL, Eddy County, NM

D	C	B	A
E	F	G	H
L	K	J	I
M	N	O	P



-----8-5/8" Set @ 1450' w/342 sx. cement. 6-29-62

-----Hole size 7-7/8"

-----5-1/2" Set @ 6941' w/492 sx. cement. 7-15-62

-----Tbg size set @ 6878'

-----7-17-62 Request for allowable, list packer in hole, no depth listed.

-----Perfs @ 6905'-17'; Abo Reef. 7-16-62

-----PBTD 6940'

Cementing

Special Tools

Acidizing

Chemical Services

284 SERVICE CENTERS

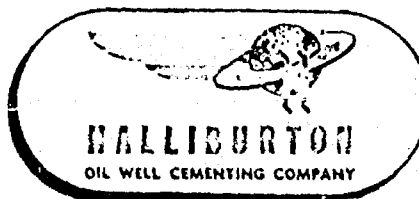
JUST MINUTES AWAY FROM YOUR WELL!

Formation Testing

Fracturing

Dump Bailer

Casing Equipment



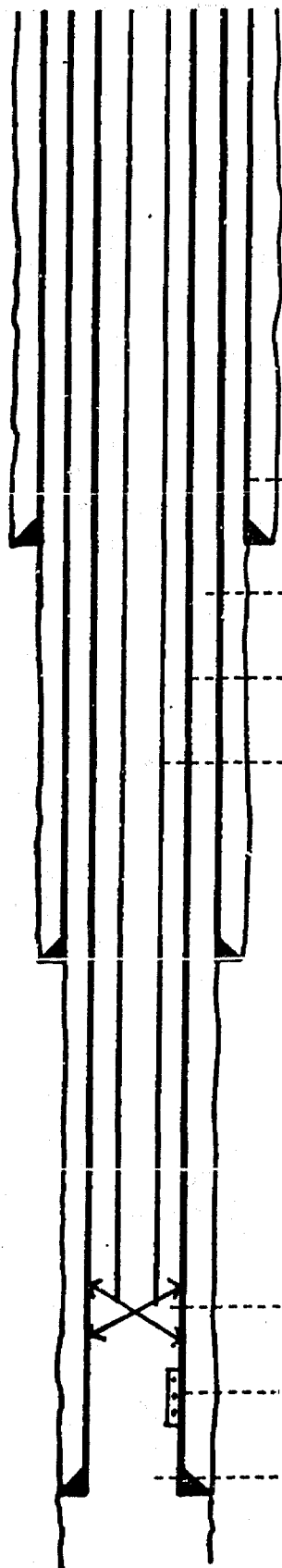
Page 11

PLAN-O-GRAM

Company General American Oil Company of Texas
Box 416 Loco Hills, NM.

Well No. 2 Leose Parke "E" Federal
Unit Letter H, Sec. 22, T-17S, R-30E
2310' FNL & 310' FEL, Eddy County, NM

D	C	B	A
E	F	G	H
L	K	J	I
M	N	O	P



-----8-5/8" Set @ 1450' w/342 sx. cement. 6-29-62

-----Hole size 7-7/8"

-----5-1/2" Set @ 6941' w/492 sx. cement. 7-15-62

-----Tbg size set @ 6878'

-----7-17-62 Request for allowable, list packer in hole, no depth listed.

-----Perfs @ 6905'-17', Abo Reef. 7-16-62

-----PBTD 6940'

Cementing.

Special Tools

Acidizing

Chemical Services

284 SERVICE CENTERS . . .

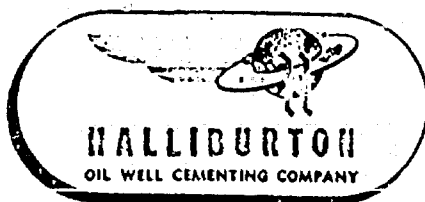
JUST MINUTES AWAY FROM YOUR WELL!

Formation Testing

Fracturing

Dump Bailer

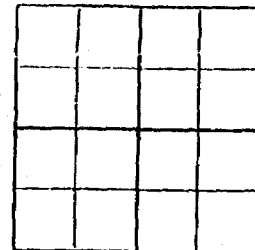
Casing Equipment



PLAN - O - G R A M

Company General American Oil Company of Tx
Box 416 Loco Hills, NM

Well No. 11 Lease Maddren "B"
 Unit Letter , Sec. 23, T-17S, R-30E
2310' FNL & 990' FWL, Eddy County, NM



-----8-5/8" Set @ 1544' w/551 sx. cement to surface. 5-30-62

-----5-1/2" Set @ 6940' w/392 sx cement.

-----Data we have does not show tubing or packer depth.

-----Perfs @ 6862'-74', Abo Reef, 12-4-62

-----Perfs @ 6902'-21', Abo Reef, 6-24-62

Cementing

Special Tools

Acidizing

Chemical Services

284 SERVICE CENTERS . . .

Formation Testing

Fracturing

JUST MINUTES AWAY FROM YOUR WELL!

Dump Bailer

Casing Equipment

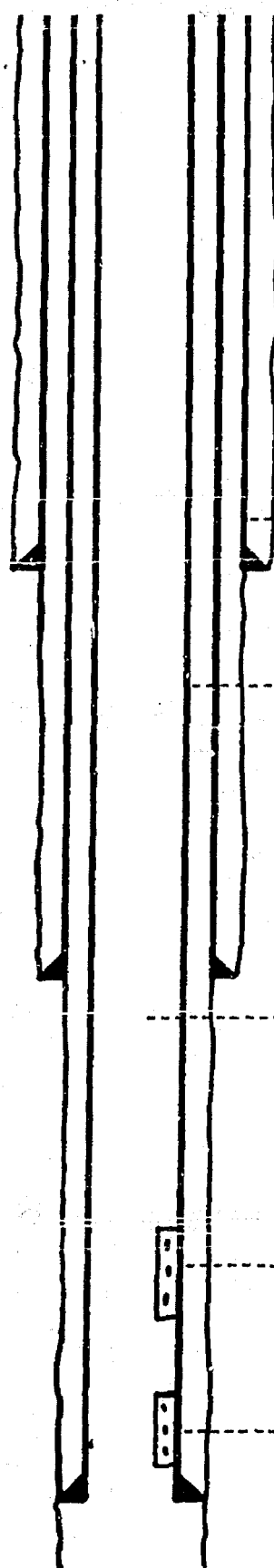


7-11-62

PLAN-O-GRAM

Company General American Oil Company of Tx
Box 416 Loco Hills, NM

Well No. 11 Lease Maddren "B"
Unit Letter , Sec. 23, T-17S, R-30E
2310' FNL & 990' FWL, Eddy County, NM



-----8-5/8" Set @ 1544' w/551 sx. cement to surface. 5-30-62

-----5-1/2" Set @ 6940' w/392 sx cement.

-----Data we have does not show tubing or packer depth.

-----Perfs @ 6862'-74', Abo Reef, 12-4-62

-----Perfs @ 6902'-21', Abo Reef, 6-24-62

Cementing

Special Tools

Acidizing

Chemical Services

284 SERVICE CENTERS . . .

JUST MINUTES AWAY FROM YOUR WELL!

Formation Testing

Fracturing

Dump Boiler

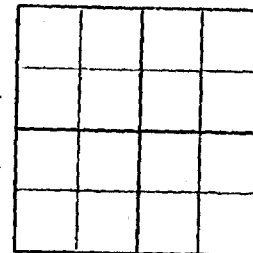
Casing Equipment



PLAN-O-GRAM

Company General American Oil Company of Tx
Box 416 Loco Hills, NM

Well No. 11 Lease Maddren "B"
Unit Letter , Sec. 23, T-17S, R-30E
2310' FNL & 990' FWL, Eddy County, NM



-----8-5/8" Set @ 1544' w/551 sx. cement to surface. 5-30-62

-----5-1/2" Set @ 6940' w/392 sx cement.

-----Data we have does not show tubing or packer depth.

-----Perfs @ 6862'-74', Abo Reef, 12-4-62

-----Perfs @ 6902'-21', Abo Reef, 6-24-62

Cementing

Special Tools

Acidizing

Chemical Services

284 SERVICE CENTERS

Formation Testing

Fracturing

JUST MINUTES AWAY FROM YOUR WELLS

Dump Bailer

Casing Equipment



Well

PLAN - O - G R A M

Company General American Oil Company of Tx
Box 416 Loco Hills, NM

Well No. 11 Lease Maddren "B"
Unit Letter , Sec. 23, T-17S, R-30E
2310' FNL & 990' FWL, Eddy County, NM

-----8-5/8" Set @ 1544' w/551 sx. cement to surface. 5-30-62

-----5-1/2" Set @ 6940' w/392 sx cement.

-----Data we have does not show tubing or packer depth.

-----Perfs @ 6862'-74', Abo Reef, 12-4-62

-----Perfs @ 6902'-21', Abo Reef, 6-24-62

Cementing

Special Tools

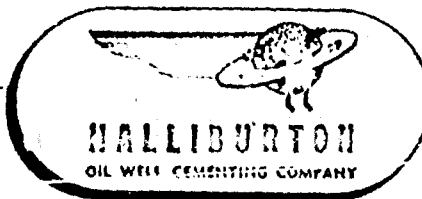
Acidizing

Chemical Services

284 SERVICE CENTERS . . .

Formation Testing

Fracturing



JUST MINUTES AWAY FROM YOUR WELL!

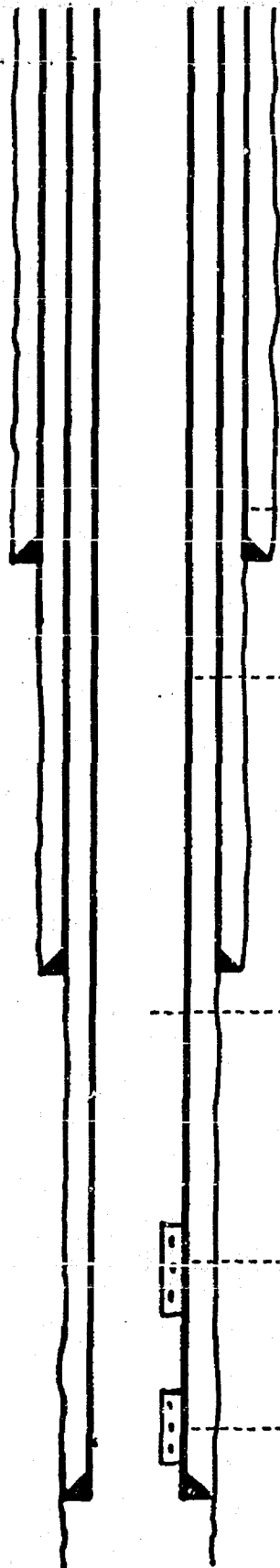
Dump Builer

Casing Equipment

PLAN-O-GRAM

Company General American Oil Company of Tx
Box 416 Loco Hills, NM

Well No. 11 Lease Maddren "B"
Unit Letter , Sec. 23, T-17S, R-30E
2310' FNL & 990' FWL, Eddy County, NM



-----8-5/8" Set @ 1544' w/551 sx. cement to surface. 5-30-62

-----5-1/2" Set @ 6940' w/392 sx cement.

-----Data we have does not show tubing or packer depth.

-----Perfs @ 6862'-74', Abo Reef, 12-4-62

-----Perfs @ 6902'-21', Abo Reef, 6-24-62

Cementing

Special Tools

Acidizing

Chemical Services

284 SERVICE CENTERS . . .

JUST MINUTES AWAY FROM YOUR WELL!

Formation Testing

Fracturing

Dump Bailer

Casing Equipment



copy

Memo

OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

6/21
From

D. S. NUTTER
CHIEF ENGINEER

To Peter Corp of Texas
Attn: Cleve Simo

Your application for administrative approval for salt water disposal into the Dexter Fed #1 is ineligible for administrative approval because of the proximity of several San Andres wells.

We will set this for hearing on the next available docket (July 20) unless we hear from you contrary to that date by June 29.

DSN



DIRECTOR
JOE D. RAMEY

OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO
P. O. BOX 2088 - SANTA FE
87501

LAND COMMISSIONER
PHIL R. LUCERO
October 13, 1977



STATE GEOLOGIST
EMERY C. ARNOLD

Petroleum Corporation of Texas
P. O. Box 911
Breckenridge, Texas 76024

Attention: Mr. Arthur Boice

Re: NMOCC Case No. 5996 (Order No. 5513)
Jackson-Abo Pool, Eddy County, N.M.

Gentlemen:

Your September 30th, 1977, application for permission to dispose of produced water from the Grayburg-Jackson Pool into the Dexter Federal Well No. 3, located in Unit I of Section 22, Township 17 South, Range 30 East, NMPM, Eddy County, New Mexico, has been duly filed in accordance with paragraphs 4 and 5 of New Mexico Oil Conservation Commission Order No. 5513.

Under the provisions of paragraph 6, New Mexico Oil Conservation Commission Order No. R-5513, you are hereby authorized to utilize said Well No. 3 to dispose of water produced from the Queen, Grayburg and San Andres formations from the following wells:

Dexter Federal "15" No. 1 located in Unit J of Section 15,
Flint Federal "B" Well No. 2, located in Unit M of Section 14,
Jenkins Federal "B" Well No. 1, located in Unit E of Section 20;
Jenkins Federal "B" Well No. 2, located in Unit D of Section 20;
Jenkins Federal "B" Well No. 3, located in Unit D of Section 20;
Jenkins Federal "B" Well No. 4, located in Unit F of Section 20;
Jenkins Federal "B" Well No. 5, located in Unit D of Section 20;
Jenkins Federal "B" Well No. 6, located in Unit C of Section 20;
all in Township 17 South, Range 30 East, NMPM, Eddy County.

Very truly yours,

JOE D. RAMEY
Secretary-Director

JDR/CU/og
cc: Oil Conservation Commission
Drawer DD
Artesia, New Mexico

PETROLEUM CORPORATION OF TEXAS

P. O. BOX 911
BRECKENRIDGE, TEXAS 76024



September 30, 1977

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

Attention: Mr. Carl Ulvag

Re: Dexter Federal No. 3-SWD
Unit Letter I, Twp. 17S,
Rng. 30E

Gentlemen:

When we applied for water disposal permit on the above lease, we asked for permission to dispose of the produced water from only the Dexter Federal Lease No. 1-J, Unit Letter J, Sec. 22, Twp. 17, Rng. 30. We have recently retested the water on the above lease, and find it fairly compatible with produced water from the following leases, located near this disposal well. We are requesting permission to dispose of the following produced water in this well.

Well Name	Well No	Unit	Sec	Twp	Rng	Bbls H ₂ O Month	Total Solids (Mg/l)	Lbs Solids Month
Dexter "J" Fed	1-J	J	22	17	30	3621	14796	18898
Dexter "15" Fed	1	J	15	17	30	810	20100	5743
Flint "B" Fed	2	M	14	17	30	4500	66198	105076
Jenkins "B" Fed	1	E	20	17	30	19	20600	138
Jenkins "B" Fed	2	D	20	17	30	9	20600	65
Jenkins "B" Fed	3	D	20	17	30	35	20600	254
Jenkins "B" Fed	4	F	20	17	30	45	20600	327
Jenkins "B" Fed	5	D	20	17	30	1500	20600	10900
Jenkins "B" Fed	6	C	20	17	30	1200	20600	8719
Totals						11739		150120

The water analysis that we sent with the original application are the latest water analysis that we have.

All wells are in the Grayburg Jackson (Queen, San Andres) Field, except the Dexter "J" Federal which is in the Jackson (Abo) Field.

Yours truly,

Arthur Boice
Division Superintendent



AHB/gw

817-559-3355



CCC, INC.
P. O. Box 5421
Midland, Texas 79701
682-7860

DE EMULSIFIERS • WATERFLOOD CHEMICALS • PARAFFIN SOLVENTS • SCALE REMOVER & INHIBITORS
P. O. DRAWER 1341
WICWOKA, OKLAHOMA 74884

Cochran Chemical Company, Inc.

August 8, 1977

Mr. Lowell Moore
PETROLEUM CORPORATION OF TEXAS
Dexter "J" Lease

Toco Hills, New Mexico

FILED RECEIVED AUG 22 1977		
PRODUCTION DEPARTMENT		
ROUTE	TO	DATE
FFD	SR	
SUB		
FILE		
ADD	✓	PHONE 257-2023
CDS		JAW
BBP		JD
ASM		JIM
CMS		BCH
JJ		VKW
WC		FILE:
MBT		WR
BO		

INTRODUCTION:

A sample of water has been analyzed in our laboratory and we are pleased to submit the Probable Mineral Composition of this water with our General Evaluation as to its problems, with our recommendations and suggestions for treatment of this well or wells as follows:

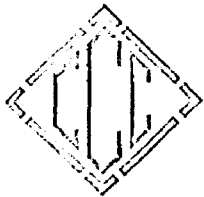
WATER ANALYSIS:

Total Solids	-----	14,796 Mg/L
pH	-----	6.85
Iron	-----	.2 Mg/L
Calcium Bicarbonate	(CaHCO ₃)-----	86 Mg/L
Calcium Sulfate	(CaSO ₄)-----	110 "
Calcium Chloride	(CaCl ₂)-----	4,700 "
Magnesium Chloride	(MgCl ₂)-----	3,800 "
Sodium Chloride	(NaCl)-----	6,100 "

GENERAL EVALUATION:

RECOMMENDED TREATMENT:

William B. Hughes, Ph.D.
Technical Director



(00352136)
Cochran Chemical Company, Inc.

DE-EMULSIFIERS • WATER TREATMENT CHEMICALS • PARAFFIN SOLVENTS • SCALE REMOVER & INHIBITORS

P. O. DRAWER 1341

PHONE 257-2825

C.C.C., INC.

P. O. Box 5421

MIDLAND, TEXAS 79701

32-7860

WENOKA, OKLAHOMA

74384

May 24, 1977

7.09 # per bbl

PETROLEUM CORPORATION OF TEXAS
Dexter "15" Lease
Loco Hills, New Mexico

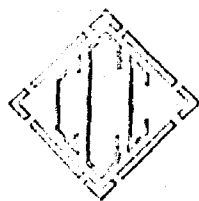
INTRODUCTION:

A sample of water has been analyzed in our laboratory and we are pleased to submit a water analysis which includes total dissolved solids, pH, and the concentrations of chlorides and sulfates.

WATER ANALYSIS:

Total Chlorides-----	10,160 Mg/L
pH-----	7.01
Sulfate-----	1,100 Mg/L
Total Solids-----	20,100 "

Dr. William B. Hughes
Chemist



Cochran Chemical Company, Inc.

DE-EMULSIFIERS • WATER-LOOSED CHEMICALS • PARAFFIN SOLVENTS • SCALE REMOVER & INHIBITORS

P. O. DRAWER 1341

PHONE 257-2825

INC.

Box 5421

AND, TEXAS 79701

7860

WEWOKA, OKLAHOMA

74084

May 23, 1977

PETROLEUM CORPORATION OF TEXAS
Flint "B" Federal Lease
Loco Hills, New Mexico

INTRODUCTION:

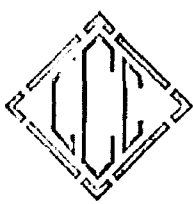
A sample of water has been analyzed in our laboratory and we are pleased to submit a water analysis which includes total dissolved solids, pH, and the concentrations of chlorides and sulfates.

WATER ANALYSIS:

Total Solids-----	66,198 Mg/L
pH-----	6.50-----
Iron-----	.5 Mg/L
Calcium Bicarbonate (CaHCO ₃)-----	86 Mg/L
Calcium Sulfate (CaSO ₄)-----	1,100 "
Calcium Chloride (CaCl ₂)-----	9,302 "
Magnesium Chloride (MgCl ₂)-----	7,110 "
Sodium Chloride (NaCl)-----	48,600 "

Dr. William B. Hughes
Chemist

USE



Cochran Chemical Company, Inc.

DE-EMULSIFIERS • WATERFLOOD CHEMICALS • PARAFFIN SOLVENTS • SCALE REMOVER & INHIBITORS

P. O. DRAWER 1341

PHONE 257-2825

CCC, INC.
P. O. Box 5421
MIDLAND, TEXAS 79701
682-7860

WEWOKA, OKLAHOMA
74884

May 24, 1977

PETROLEUM CORPORATION OF TEXAS
Jenkins "B" Lease
Loco Hills, New Mexico

INTRODUCTION:

A sample of water has been analyzed in our laboratory and we are pleased to submit a water analysis which includes total dissolved solids, pH, and the concentrations of Chlorides and Sulfates.

WATER ANALYSIS:

Total Solids-----	20,600 Mg/L
Total Chlorides-----	9,620 "
pH-----	7.15
Sulfate-----	1,010 Mg/L

Dr. William B. Hughes
Chemist

PETROLEUM CORPORATION OF TEXAS
P. O. BOX 911
BRECKENRIDGE, TEXAS 76024

June 27, 1977

Anadarko Production Company
100 Park Avenue Building
Suite 300
Oklahoma City, OK 73102

Dexter Federal Well No. 3
Jackson Abo Field
Eddie County, New Mexico

Gentlemen:

Petroleum Corporation of Texas has made application to the New Mexico Conservation Commission to convert the Dexter Federal No. 3 (Unit letter I; Section 22; Township 17S; Range 30E; 2310' from the South line and 330' from the East line), to a salt water disposal well. The fluid will be injected into the Abo Reef zone at 6868'-77' and 6852'-64'.

If you have no objections to this conversion, please sign and return three copies of this letter in the enclosed envelope at your earliest convenience.

Yours very truly,

Cleve Sims

Cleve Sims
Engineering Assistant

CMS/gw

I have no objection to the granting of a permit to inject water into the above well at 6868'-77' and 6852'-64'.

By: *[Signature]*

Date: 7/1/77

This replaces our letter of June 17, 1977.

BEFORE EXAMINER STAMETS	
OIL CONSERVATION COMMISSION	
Appn	EXHIBIT NO. 2(a)
CASE NO. 5996	
Submitted by	
Hearing Date 7-20-77	



817-559-3955

PETROLEUM CORPORATION OF TEXAS

P. O. BOX 911
BRECKENRIDGE, TEXAS 7 024

June 27, 1977

Franklin, Aston & Fair
P. O. Box 1090
Roswell, NM 88201

Dexter Federal Well No. 3
Jackson Abo Field
Eddie County, New Mexico

Gentlemen:

Petroleum Corporation of Texas has made application to the New Mexico Conservation Commission to convert the Dexter Federal Well No. 3, (Unit letter I; Section 22; Township 17S; Range 30E; 2310' from the South line and 330' from the East line), to a salt water disposal well. The fluid will be injected into the Abo Reef zone at 6868'-77' and 6852'-64'.

If you have no objections to this conversion, please sign and return three copies of this letter in the enclosed envelope at your earliest convenience.

Yours very truly,

Cleve Sims
Engineering Assistant

CMS/gw

I have no objection to the granting of a permit to inject water into the above well at 6868'-77' and 6852'-64'.

By: [Signature]

Date: 7-13-77

This replaces our letter of June 17, 1977

BEFORE EXAMINER STAMETS	
OIL CONSERVATION COMMISSION	
Appn. EXHIBIT NO. 2(C)	
CASE NO. 5996	
Submitted by	
Hearing Date 7-20-77	



817-559-3355

Date Received JUL 14 1977			
PRODUCTION DEPARTMENT			
ROUTE TO	DATE CHECKED	ROUTE TO	DATE CHECKED
FFD		SEE	
BDP		JP	
BGI		CRA	
SHL		JAW	
MBT		ILD	
VKW		JLM	
CMS		ASN	
WC			
CDS			
JT			
JJ			
		FILE: WR	

PETROLEUM CORPORATION OF TEXAS

P. O. BOX 911
BRECKENRIDGE, TEXAS 76024

June 27, 1977

RECEIVED

JUN 13 1977

Atlantic Richfield Company -
P. O. Box 1710
Hobbs, NM 88240

CAMPBELL, BINGHAM AND
TULLY

Dexter Federal Well No. 3
Jackson Abo Field
Eddie County, New Mexico

Gentlemen:

Petroleum Corporation of Texas has made application to the New Mexico Conservation Commission to convert the Dexter Federal Well No. 3, (Unit letter I; Section 22, Township 17S; Range 30E; 2310' from the South line and 330' from the East line), to a salt water disposal well. The fluid will be injected into the Abo Reef zone (6868'-77' and 6852'-64').

If you have no objections to this conversion, please sign and return three copies of this letter in the enclosed envelope at your earliest convenience.

Yours very truly,

Cleve Sims
Engineering Assistant

CMS/gw

I have no objection to the granting of a permit to inject water into the above well at 6868'-77' and 6852'-64'.

By: J. J. Lued District Engineer

Date: 7-13-77

This replaces our letter of June 17, 1977

BEFORE EXAMINER STAMETS
OIL CONSERVATION COMMISSION

Appn. EXHIBIT NO. 2(d)

CASE NO. 5996

Submitted by

Filed Date 7-20-77



817-559-3355

PETROLEUM CORPORATION OF TEXAS

P. O. BOX 911
BRECKENRIDGE, TEXAS 76021

June 27, 1977



General American Oil Company
Meadows Building
Dallas, TX 75206

Dexter Federal Well No. 3
Jackson Abo Field
Eddie County, New Mexico

Gentlemen:

Petroleum Corporation of Texas has made application to the New Mexico Conservation Commission to convert the Dexter Federal Well No. 3, (Unit letter I; Section 22; Township 17S; Range 30E; 2310' from the South line and 330' from the East line), to a salt water disposal well. The fluid will be injected into the Abo Reef zone at 6868'-77' and 6852'-64'.

If you have no objections to this conversion, please sign and return three copies of this letter in the enclosed envelope at your earliest convenience.

Yours very truly,

Cleve Sims

Cleve Sims
Engineering Assistant

CMS/gw

I have no objection to the granting of a permit to inject water into the above well at 6868'-77' and 6852'-64'.

By: *[Signature]*

Date: *7/12/77*

BEFORE EXAMINER STAMETS
OIL CONSERVATION COMMISSION
Copper EXHIBIT NO. *26*
CASE NO. *5996*
Submitted by _____
Hearing Date *7-20-77*

This replaces our letter of June 17, 1977.



817-559-3355

Company Petroleum Corporation of Texas

Well No. 3 Lease Dexter Federal
Unit Letter I, Sec. 22, T-17S, R-30E
2310' ESL, 330' FEL, Eddie County, NM

D	C	B	A
E	F	G	H
I	K	J	L
M	N	O	P

A pressure gauge will be attached to the annulus at the surface.

11" Surface Hole.

8 5/8" Set @ 1437' w/500 sacks cement. Cement circulated to surface.

No intermediate string.

Casing - tubing annulus will be filled with an inert fluid.

2 3/8" EUE Salta lined tubing will be used.

BEFORE EXAMINER STAMETS
OIL CONSERVATION COMMISSION
EXHIBIT NO. 5
CASE NO. 5996

Submitted by _____
Sperling Date 7-20-77

Tension type packer will be set @ 6800'.
Water injection will be in perfs @ 6852'-6864' and 6868'-6877'.

Perfs @ 6852' - 6864' are open.

Perfs @ 6868' - 6877' are open.

Perfs @ 6884' - 6899' squeezed w/50 sacks cement. (11-64)

Perfs @ 6906'-6926' squeezed w/100 sacks cement. (11-63)

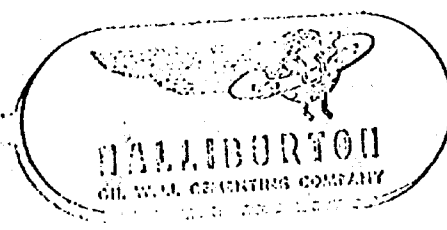
4 1/2" casing set @ 6939'. Cemented w/771 ex cement w/DV Tool @ 6670'.
6 1/4" Long string hole.
PB TD 6901'.

Cementing

Special Tools

Formation Testing

Fracturing



Acidizing

Chemical Services

Dump Boiler

Casing Equipment

Dockets Nos. 25-77 and 26-77 are tentatively set for hearing on August 3 and August 17, 1977. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - WEDNESDAY - JULY 20, 1977

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

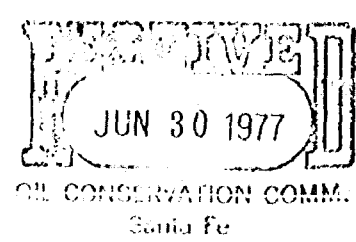
The following cases will be heard before Richard L. Stamets, Examiner, or Daniel S. Mutter, Alternate Examiner:

- ALLOWABLE: (1) Consideration of the allowable production of gas for August, 1977, from fifteen prorated pools in Lea, Eddy, Chavez, and Roosevelt Counties, New Mexico.
- (2) Consideration of the allowable production of gas for August, 1977, from four prorated pools in San Juan, Rio Arriba, and Sandoval Counties, New Mexico.
- CASE 5982: Application of Sam H. Snoddy for directional drilling and a non-standard gas proration unit, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the directional drilling of two 14,000-foot Morrow gas wells in Unit P of Section 25, Township 20 South, Range 32 East, South Salt Lake-Morrow Gas Pool, Lea County, New Mexico, one of which would be vertically drilled to a depth of 4000 feet from a surface location 660 feet from the South line and 760 feet from the East line of said Section 25, then directionally drilled in a North-Northwesterly direction and bottomed in the approximate center of the NE/4 of said Section 25, the N/2 of the section being dedicated to the well; the other well would be vertically drilled to a depth of 4000 feet from a surface location 760 feet from the South line and 660 feet from the East line of said Section 25, then directionally drilled in a West-Northwesterly direction and bottomed in the approximate center of the SW/4 of said Section 25, which would be a 160-acre non-standard unit for said well.
- CASE 5983: Application of Yates Petroleum Corporation for the amendment of Order No. R-5445, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of Order No. R-5445 to provide for a 200 percent risk factor for drilling the unit well rather than 20 percent. Said order pooled the N/2 of Section 19, Township 20 South, Range 25 East, Eddy County, New Mexico.
- CASE 5984: Application of Morris R. Antweil for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in and underlying the N/2 of Section 20, Township 18 South, Range 25 East, Eddy County, New Mexico, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof, as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.
- CASE 5985: Application of Orla Petco, Inc., for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its B. K. Morrison Well No. 1 to be located 1980 feet from the South line and 660 feet from the West line of Section 5, Township 19 South, Range 26 East, Eddy County, New Mexico, the S/2 of said Section 5 to be dedicated to the well.
- CASE 5986: Application of J. Gregory Merriam for downhole commingling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Devils Fork-Gallup and Mesaverde production in the wellbore of his Edna Well No. 2 located in Unit O of Section 7, Township 24 North, Range 6 West, Rio Arriba County, New Mexico.
- CASE 5987: Application of Getty Oil Company for downhole commingling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Gallup, Mesaverde, and Dakota production in the wellbore of its C. W. Roberts Well No. 5, located in Unit F of Section 17, Township 25 North, Range 3 West, Rio Arriba County, New Mexico. Applicant also seeks approval for the reopening of its C. W. Roberts Wells Nos. 3 and 4 and its Lydia Rentz Well No. 4 to commingle Dakota, Mesaverde, and possibly Gallup production within the wellbores of the above-described wells located in Units O, M, and A of Sections 18, 17, and 19, respectively, of the same township.
- CASE 5988: Application of Continental Oil Company for three unorthodox locations, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Rule 2-A of the Blanco-Mesaverde Gas Pool Rules, to permit the drilling of its AXI Apache "N" Wells Nos. 12 and 14 in the NW/4 of Sections 11 and 1, respectively, and its AXI Apache "O" Well No. 10 in the SE/4 of Section 3, all in Township 25 North, Range 4 West, Rio Arriba County, New Mexico. Each of said wells is the first Mesaverde well on its proration unit.

- CASE 5989: Application of Continental Oil Company for an unorthodox oil well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Marshall Well No. 8 to be located 2600 feet from the South line and 1230 feet from the West line of Section 19, Township 23 South, Range 33 East, Cruz-DeLaure Pool, Lea County, New Mexico.
- CASE 5990: Application of Continental Oil Company for an unorthodox location, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its AXI Apache "D" Well No. 5 to be located 2310 feet from the North line and 990 feet from the West line of Section 19, Township 24 North, Range 4 West, Ballard-Pictured Cliffs Pool, Rio Arriba County, New Mexico.
- CASE 5991: Application of Continental Oil Company for capacity allowable, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for a capacity allowable for its Pearl "B" Well No. 4 located 330 feet from the South line and 2310 feet from the West line of Section 25, Township 17 South, Range 32 East, Maljarar Grayburg-San Andres Pool, Lea County, New Mexico.
- CASE 5992: Application of Burleson & Huff for compulsory pooling and a non-standard unit, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests underlying the SE/4 NW/4 of Section 14, Township 24 South, Range 36 East, Jalmat Gas Pool, Lea County, New Mexico, to form a non-standard 40-acre gas proration unit to be dedicated to applicant's Cooper Well No. 1 located in Unit F of said Section 14, or in the alternative to drill another well at a standard location thereon. Also to be considered will be the cost of recompletion or of drilling and completing the unit well and the allocation of the cost thereof, as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in recompleting or drilling said well.
- CASE 5993: Application of Lively Exploration Company for an exception to the provisions of Order No. R-5459, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an exception to the provisions of Order No. R-5459 to exclude its Chacra Well No. 7Y in Unit E of Section 35, Township 30 North, Range 8 West, San Juan County, New Mexico, from the vertical limits of the Blanco-Mesaverde Pool as defined by said order.
- CASE 5994: Application of Tenneco Oil Company for an exception to the provisions of Order No. R-5459, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an exception to the provisions of Order No. R-5459 to exclude its Florence Well No. 29-A in Unit F of Section 25, and its Northeast Blanco Unit Well No. 64 in Unit P of Section 24, both in Township 30 North, Range 8 West, San Juan County, New Mexico, from the vertical limits of the Blanco-Mesaverde Pool.
- CASE 5995: Application of Tenneco Oil Company for dual completions and waterflood expansions, McKinley County, New Mexico. Applicant, in the above-styled cause, seeks authority to expand its South Hospah-Upper Sand and -Lower Sand Waterflood Projects by dually completing its Hospah Unit Wells Nos. 58 and 59, located in Units F and G, respectively, of Section 12, Township 17 North, Range 9 West, McKinley County, New Mexico, in such a manner as to permit water injection into each of said zones thru parallel strings of tubing.
- CASE 5996: Application of Petroleum Corporation of Texas for salt water disposal, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Abo formation through the perforated interval from 6852 feet to 6877 feet in its Dexter Federal Well No. 3 located in Unit I of Section 22, Township 17 South, Range 30 East, Jackson Abo Pool, Eddy County, New Mexico.
- CASE 5997: Application of Atlantic Richfield Company for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for its East Drinkard Unit Area comprising 3080 acres, more or less, of Federal and fee lands in Sections 11, 12, 13, 14, 23 and 24, Township 21 South, Range 37 East, Lea County, New Mexico.
- CASE 5998: Application of Atlantic Richfield Company for a waterflood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project on its East Drinkard Unit Area, Lea County, New Mexico, by the injection of water into the Drinkard formation through 30 wells.
- CASE 5999: Application of Atlantic Richfield Company for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for its East Blinbry Unit Area comprising 3080 acres, more or less, of Federal and fee lands in Sections 11, 12, 13, 14, 23, and 24, Township 21 South, Range 37 East, Lea County, New Mexico.
- CASE 6000: Application of Atlantic Richfield Company for a waterflood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project on its East Blinbry Unit Area, Lea County, New Mexico, by the injection of water into the Blinbry formation through 38 wells.

Case 5796

OIL CONSERVATION COMMISSION
Airesa DISTRICT



OIL CONSERVATION COMMISSION
BOX 2088
SANTA FE, NEW MEXICO

DATE 6-29-77
RE: Proposed MC _____
Proposed DHC _____
Proposed NSL _____
Proposed SWD X _____
Proposed WFX _____
Proposed PMX _____

Gentlemen:

I have examined the application dated See Attached
for the Petroleum Corp. 7 Leases Dapten Field #3 -1-22-17-30
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

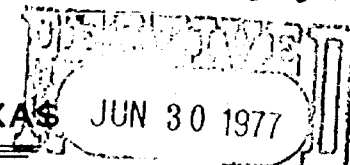
Does not qualify for Administrative Approval
Offsetting abo Production

Yours very truly,

W.A. Gressett

PETROLEUM CORPORATION OF TEXAS

P. O. BOX 911
BRECKENRIDGE, TEXAS 76024



OIL CONSERVATION COMM.
RECEIVED

June 27, 1977

JUN 29 1977

O. C. C.
ARTESIA, OFFICE

Oil Conservation Commission
P. O. Drawer DD
Artesia, NM 88210

Dexter Federal Well No. 3
Form C-108
Jackson Abo Field
Eddie County, New Mexico

Gentlemen:

This application replaces the one we sent you on June 3, 1977. Instead of perforating and injecting formation water at 3990'-4030', we will use the open perfs at 6868'-6877' and at 6852'-6864'.

A plat of the area and electrical logs were sent with the previous application.

Yours very truly,

Cleve Sims

Cleve Sims
Engineering Assistant

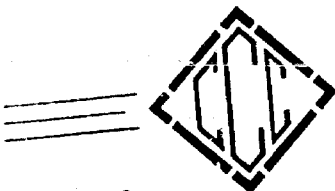
CMS/gw

Enclosures



817-550-3355

Case 5996



CCC, INC.
P. O. Box 5421
Midland, Texas 79701
682-7860

Cochran Chemical Company Inc.

DE-EMULSIFIERS • WATERFLOOD CHEMICALS • PARAFFIN SOLVENTS • SCALE REMOVERS • INHIBITORS

P. O. DRAWER 1341

WEWOKA, OKLAHOMA
74884

May 23, 1977

PETROLEUM CORPORATION OF TEXAS
Dexter Federal "J" Lease
Loco Hills, New Mexico

INTRODUCTION:

A sample of water has been analyzed in our laboratory and we are pleased to submit a water analysis which includes total dissolved solids pH, and the concentrations of chlorides and sulfates.

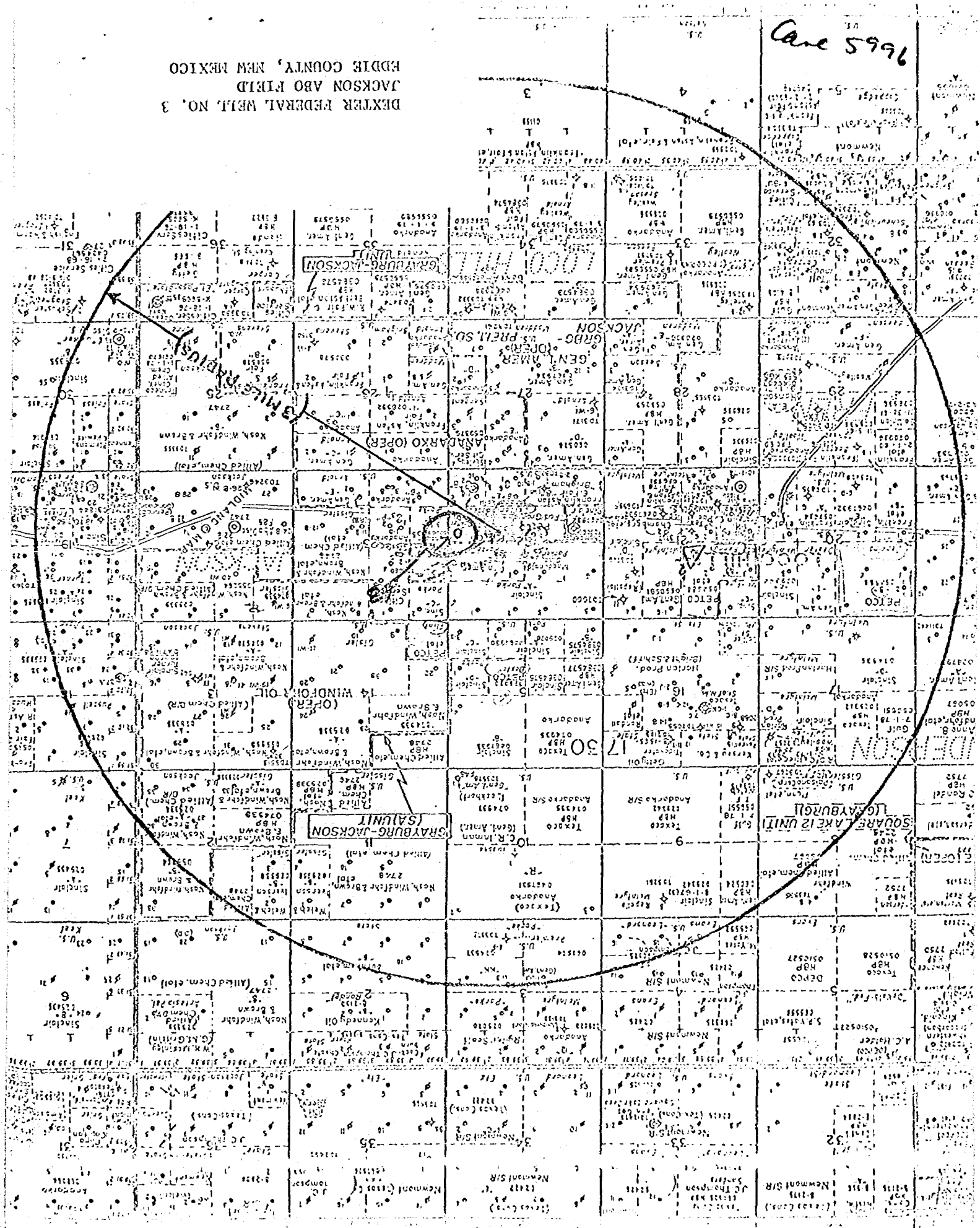
WATER ANALYSIS:

Total Solids	-----	2,171 Mg/L
pH	-----7.20-----	
Iron	-----	.09 Mg/L
Calcium Bicarbonate	(CaHCO ₃)-----	288 Mg/L
Calcium Sulfate	(CaSO ₄)-----	141 Mg/L
Calcium Chloride	(CaCl ₂)-----	222 Mg/L
Magnesium Chloride	(MgCl ₂)-----	160 Mg/L
Sodium Chloride	(NaCl)-----	1,360 Mg/L

Dr. William B. Hughes
Chemist

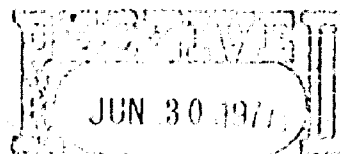
DEXTER FEDERAL WELL NO. 3
JACKSON ABO FIELD
HDDIE COUNTY, NEW MEXICO

Case 596



RECEIVED
JUN 30 1977

NOTE: Should waivers from the State Engineer, the surface owner, and all operators within one-half mile of the proposed injection well, not accompany this application, the New Mexico Oil Conservation Commission will hold the application for a period of 15 days from the date of receipt by the Commission's Santa Fe office. If at the end of the 15-day waiting period no protest has been received by the Santa Fe office, the application will be processed. If a protest is received, the application will be set for hearing, if necessary, by the Commission's Santa Fe office.



Case 5996

Oil Conservation Committee

Salto Fe

Company: Petroleum Corporation of ...

Well No. 3 ...
Hole 1, 22, 1-1/8, 3-1/2
2310' 231, 330' 236, Eddie County, NM

D	C	B	A
E	F	G	H
I	K	J	L
M	N	O	P

A pressure gauge will be attached to the annulus at the surface.

11" Surface Hole.

3 5/8" Set @ 1437' w/500 sacks cement. Cement circulated to surface.

No intermediate string.

Casing - tubing annulus will be filled with an inert fluid.

2 3/8" EUE Salto lined tubing will be used.

Tension type packer will be set @ 6800'.

Water injection will be in perfs @ 6852'-6864' and 6868'-6877'.

Perfs @ 6852' - 6864' are open.

Perfs @ 6868' - 6877' are open.

Perfs @ 6884' - 6899' squeezed w/50 sacks cement. (11-64)

Perfs @ 6906'-6926' squeezed w/100 sacks cement. (11-63)

4 1/2" casing set @ 6939'. Cemented w/771 sx cement w/DV Tool @ 6670'.
6 1/4" Long string hole.
PB TD 6901'.

Cementing

Special Tools

Acidizing

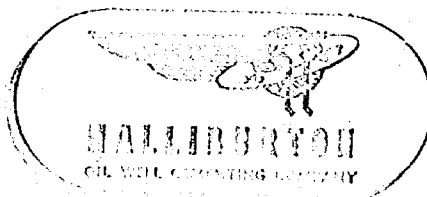
Chemical Services

Formation Fracturing

Fracturing

Camp Trailer

Casing Equipment



Case 5996



OIL CONSERVATION COMM.
Santa Fe

June 27, 1977

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

Dexter Federal Well No. 3
Form C-108
Jackson Abo Field
Eddie County, New Mexico

Gentlemen:

This application replaces the one we sent you on June 3, 1977. Instead of perforating and injecting formation water at 3990'-4030', we will use the open perfs at 6868'-6877' and at 6852'-6864'.

A plat of the area and electrical logs were sent with the previous application.

Yours very truly,

Cleve Sims

Cleve Sims
Engineering Assistant

CMS/gw

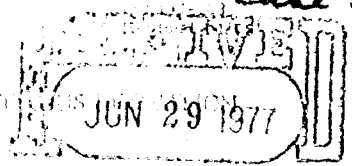
Enclosures



817-559-3355

Case 5796

APPLICATION TO PERMIT THE INJECTION OF FLUIDS INTO A WELL



Petroleum Corporation of Texas		P. O. Box 911		OIL CONSERVATION COMM.	
Dexter Federal		3		Santa Fe	
WELL NUMBER		2310		Depth	
Base		LINE SECTION 22		TOWNSHIP 30S	

NAME OF STRING	SIZE	DEPTH	TYPE OF CEMENT	TOP DEPTH
INTERMEDIATE	3 5/8"	1437'	500	Circulated
LONG STRING	4 1/2"	6939'	771	BY Tool Set @6670'
USING	2 3/8"	6800'	Tension Type	
NAME OF PROPOSED INJECTION FORMATION		TOP OF FORMATION		BOTTOM OF FORMATION
Abo Reef		3990' 6635'		4030' 6939'
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS?		PERFORATIONS OR OPEN HOLE?		PROPOSED INTERVAL(S) OF INJECTION
2 3/8" Salta Lined Tubing		Perforations		6868'-77' & 6852'-64'
IS THIS A NEW WELL DRILLED FOR OR LOCAL?		IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED FOR?		HAS THIS FORM BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE?
no		Oil Producer		yes
LIST ALL SUCH PERFORATED INTERVALS AND BACKS OF CEMENT USED TO SEAL OFF OR ISOLATE EACH				
6884'-99' squeezed w/50 sx cement; 6868'-77' & 6852'-64' are open				
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA
240'-260'		3310'-3380'		884'
ANTICIPATED DAILY INJECTION VOLUME (BBL/D)		OPEN OR CLOSED TYPE SYSTEM		IS INJECTION TO BE BY GRAVITY OR PRESSURE?
400 b/d		open		Pressure
ANSWER YES OR NO WHETHER THE FOLLOWING WATERS ARE MINERALIZED TO SUCH A DEGREE AS TO BE UNSUIT FOR DOMESTIC, STOCK, IRRIGATION, OR OTHER GENERAL USE		WATER TO BE DISPOSED OF		NATURAL WATER IN DISPOSAL ZONE
Yes		Produced		Salt Water
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND)		Pressure		Min 100% Max 500%
Federal Land - Lessee unknown.				Yes
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL				
Atlantic Richfield Company P. O. Box 1710 Hobbs, NM 88240				
Franklin, Aston & Fair P. O. Box 1090 Roswell, NM 88201				
General American Oil Company Meadows Building Dallas, TX 75206				
Anadarko Production Company 100 Park Ave Building Suite 300 Oklahoma City, OK 73102				
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?		SURFACE OWNER		EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL
Yes		Yes		Yes
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)?		PLAN OF AREA		ELECTRICAL LOG
		Yes		Yes
				Yes

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

Chas. Sims
(Signature)

Engineering Assistant
(Title)

June 27, 1977
(Date)

NOTE: Should waivers from the State Engineer, the surface owner, and all operators within one-half mile of the proposed injection well, not accompany this application, the New Mexico Oil Conservation Commission will hold the application for a period of 15 days from the date of receipt by the Commissioner's Santa Fe office. If at the end of the 15-day waiting period no protest has been received, the Santa Fe office, the application will be processed. If a protest is received, the application will be set for hearing. If the applicant so requests, see Rule 701.

Case 5796

JUN 29 1977

CH. CONSTRUCTION

Company: Petroleum Corporation of Texas

Well No. 3
Bait Letter I, Sec. 22, T-17S, R-10E
2310' ESL, 330' ESL, Eddie County, NM

D	C	B	A
E	F	G	H
I	K	J	L
M	N	O	P

A pressure gauge will be attached to the annulus at the surface.

11" Surface Hole.

8 5/8" Set @ 1437' w/500 sacks cement. Cement circulated to surface.

No intermediate string.

Casing - tubing annulus will be filled with an inert fluid.

2 3/8" EUE Salta lined tubing will be used.

Tension type packer will be set @ 6800'.

Water injection will be in perfs @ 6852'-6864' and 6868'-6877'.

Perfs @ 6852' - 6864' are open.

Perfs @ 6868' - 6877' are open.

Perfs @ 6884' - 6899' squeezed w/50 sacks cement. (11-64)

Perfs @ 6906'-6926' squeezed w/100 sacks cement. (11-63)

4 1/2" casing set @ 6939'. Cemented w/771 sx cement w/DV Tool @ 6670'.

6 1/4" long string hole.

PB TD 6901'.

Cementing

Special Tools

Acidizing

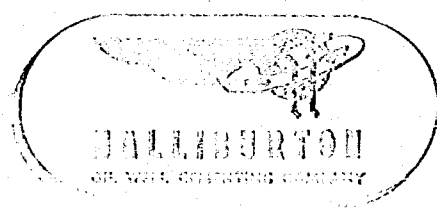
Chemical Services

Production Testing

Fracturing

Dump Boiler

Casing Equipment



NEW MEXICO OIL CONSERVATION COMMISSION

APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

Case 5776 Set for hearing

From C-1-18
Revised 1-83

SA. prod

OPERATOR
Petroleum Corporation of Texas

ADDRESS
P. O. Box 911, Jackson Abo, NM 876024

LEASE NAME
Dexter Federal

WELL NO.
3

FIELD
Jackson Abo

LOCATION
UNIT LETTER I; WELL IS LOCATED 2310 FEET FROM THE South LINE AND 330 FEET FROM THE East LINE, SECTION 22 TOWNSHIP 17S RANGE 30E NMMP. Santa Fe

JUN 21 1977

OIL CONSERVATION COMM.

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	8 5/8"	1437'	500		Circulated
INTERMEDIATE					
LONG STRING	4 1/2"	6939'	771		DV Tool set @ 6670'
TUBING	2 3/8"	3940'			

NAME OF PROPOSED INJECTION FORMATION
Lower San Andres

TOP OF FORMATION
3990'

BOTTOM OF FORMATION
4030'

IS INJECTION THROUGH TUBING, CASING, OR ANNULUS?
2 3/8" Salta Lined Tubing

PERFORATIONS OR OPEN HOSE?
Perforations

PROPOSED INJECTION(S) OF INJECTION
3990'-4030'

IS THIS A NEW WELL DRILLED FOR DISPOSAL?
no

IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED?
oil producer

HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE?
yes

LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH
6884'-99' squeezed w/5- sx cement; 6868'-77' & 6852'-64' are open

DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA
240'-260'

DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA
3310'-3380'

DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA
6884'

ANTICIPATED DAILY INJECTION VOLUME (BBLs.)
400 b/d

MINIMUM
400 b/d

MAXIMUM
675 b/d

OPEN OR CLOSED TYPE SYSTEM
open

IS INJECTION TO BE BY GRAVITY OR PRESSURE?
Pressure

APPROX. PRESSURE (PSI)
Min 100#; Max 1500#

ANSWER YES OR NO WHETHER THE FOLLOWING WATERS ARE MINERALIZED TO SUCH A DEGREE AS TO BE UNSUITABLE FOR DOMESTIC, STOCK, IRRIGATION, OR OTHER GENERAL USE -
yes

WATER TO BE DISPOSED OF
Produced

NATURAL WATER IN DISPOSITION ZONE
salt water

WATER ANALYSES ATTACHED?
yes

NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND)
Federal Land - Lessee unknown.

LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL

Atlantic Richfield Box 1978 Roswell, NM 88201

Franklin, Aston & Fair P. O. Box 1090 Roswell, NM 88201

General American Oil Company Meadows Building Dallas, TX 75206

Anadarko Production Company 100 Park Ave. Building, Suite 300 Oklahoma City, OK 73102

HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?
yes

SURFACE OWNER
yes

EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL
yes

THE NEW MEXICO STATE ENGINEER
yes

ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)?
yes

PLAT OF AREA
yes

ELECTRICAL LOG
yes

DIAGRAMMATIC SKETCH OF WELL
yes

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

Clare Sims
(Signature)

Engineering Assistant
(Title)

June 3, 1977
(Date)

NOTE: Should waivers from the State Engineer, the surface owner, and all operators within one-half mile of the proposed injection well, not accompany this application, the New Mexico Oil Conservation Commission will hold the application for a period of 15 days from the date of receipt by the Commission's Santa Fe office. If at the end of the 15-day waiting period no protest has been received by the Santa Fe office, the application will be processed. If a protest is received, the application will be set for hearing, if the applicant so requests. SEE RULE 701.

Well

PLAN-O-GRAM

Location

D	C	B	A
E	F	G	H
L	K	J	I ^o
M	N	O	P

Company Petroleum Corporation of Texas

Well No. 3 Lease Dexter Federal

Unit Letter I, Sec. 22, T-17S, R-30E

2310' FSL, 330' FEL, Eddie County, NM

A pressure gauge will be attached to the annulus at the surface.

-----11" Surface Hole.

-----8 5/8" Set @ 1437' w/500 sacks cement. Cement circulated to surface.

-----No intermediate string.

-----Casing - tubing annulus will be filled with an inert fluid.

-----2 3/8" EUE Salta line tubing will be used.

-----Tension type packer will be set @ 3940'.

Water injection perfs will be @ 3990'-4030'

Bridge plug will be set @ 6800' w/10' plug on top.

Perfs @ 6852'-64' are open

Perfs @ 6868'-77' are open

Perfs @ 6884'-99' Squeezed w/50 sacks cement (11-64)

Perfs @ 6906'-26' Squeezed w/100 sacks cement (11-63)

-----4 1/2" casing set @ 6939'. Cemented w/771 sacks cement w/DV Tool @ 6670'.
6 1/4" Long string hole.
PB TD 6901'.

Cementing

Special Tools

Acidizing

Chemical Services

Formation Testing

Fracturing

Dump Bailer

Casing Equipment

HALLIBURTON
OIL WELL CEMENTING COMPANY



Cochran Chemical Company, Inc.

DE-EMULSIFIERS • WATERFLOOD CHEMICALS • PARAFFIN SOLVENTS • SCALE REMOVER & INHIBITORS

P. O. DRAWER 1341

PHONE 257-2825

CCC, INC.
P. O. Box 5421
MIDLAND, TEXAS 79701
682.7860

WEWOKA, OKLAHOMA
74884

May 23, 1977

PETROLEUM CORPORATION OF TEXAS
Dexter Federal "J" Lease
Loco Hills, New Mexico

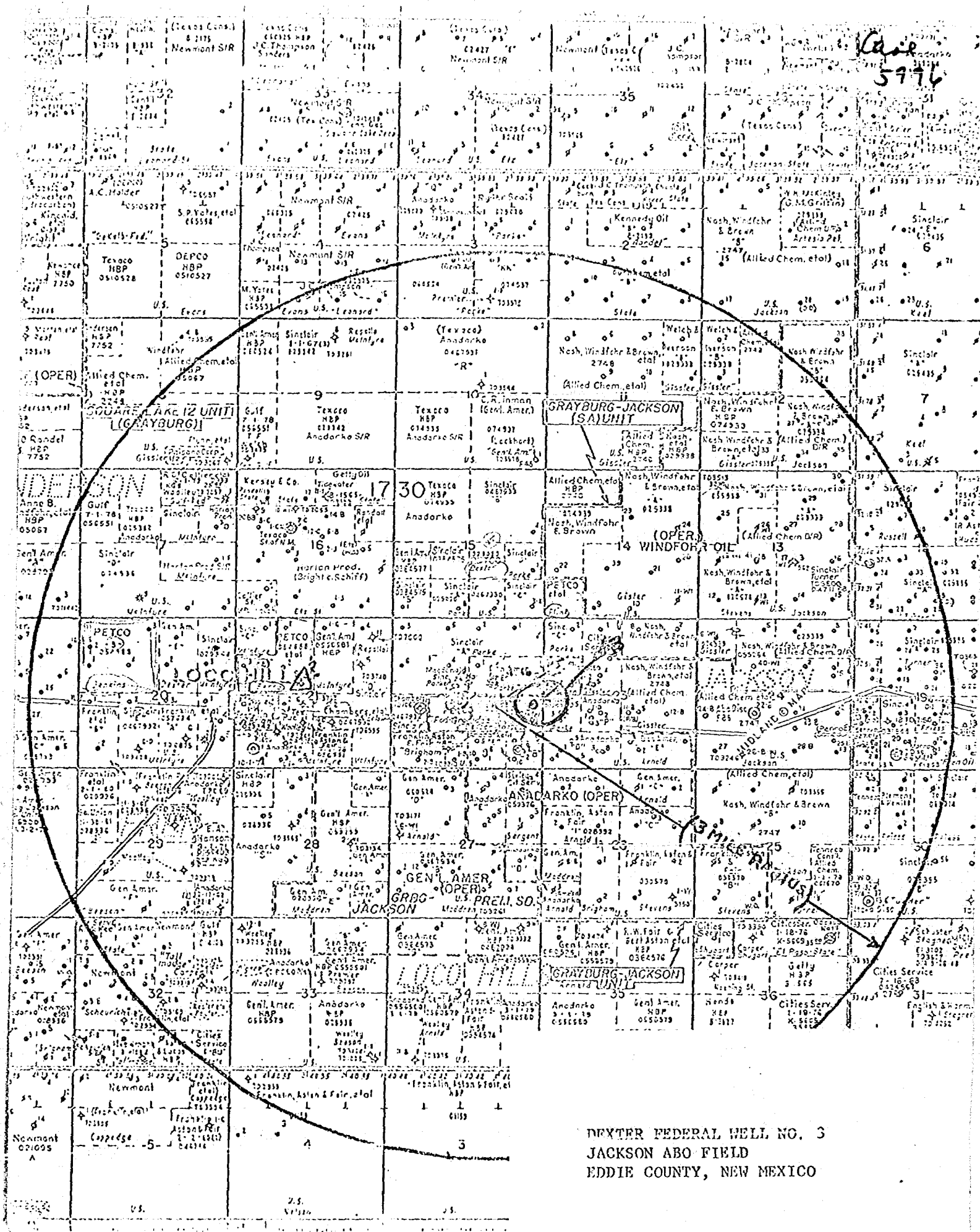
INTRODUCTION:

A sample of water has been analyzed in our laboratory and we are pleased to submit a water analysis which includes total dissolved solids, pH, and the concentrations of chlorides and sulfates.

WATER ANALYSIS:

Total Solids-----		2,171 Mg/L
pH-----	7.20-----	
Iron-----		.09 Mg/L
Calcium Bicarbonate (CaHCO ₃)-----		288 Mg/L
Calcium Sulfate (CaSO ₄)-----		141 Mg/L
Calcium Chloride (CaCl ₂)-----		222 Mg/L
Magnesium Chloride (MgCL ₂)-----		160 Mg/L
Sodium Chloride (NaCl)-----		1,360 Mg/L

Dr. William B. Hughes
Chemist



DEXTER FEDERAL WELL NO. 3
JACKSON ABO FIELD
EDDIE COUNTY, NEW MEXICO

DRAFT

dr/

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

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

[Signature] CASE NO. 5996

Order No. R- 5513

[Signature] APPLICATION OF PETROLEUM CORPORATION
OF TEXAS FOR SALT WATER DISPOSAL,
EDDY COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on July 20, 1977
at Santa Fe, New Mexico, before Examiner, Richard L. Stamets.

NOW, on this day of July, 1977, the Commission,
a quorum being present, having considered the testimony, the
record, and the recommendations of the Examiner, and being fully
advised in the premises,

FINDS:

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

(2) That the applicant, Petroleum Corporation of Texas,
is the owner and operator of the Dexter Federal Well No. 3,
located in Unit I of Section 22, Township 17 South,
Range 30 East, NMPM, Jackson Abo Pool,
Eddy County, New Mexico.

(3) That the applicant proposes to utilize said well to
dispose of produced salt water into the Abo
formation, with injection into the perforated interval
from approximately 6,852 feet to 6,877 feet.

(4) That the injection should be accomplished through
2 3/8-inch plastic lined tubing installed in a packer
set at approximately 6800 feet; that the casing-tubing annulus
should be filled with an inert fluid; and that a pressure gauge
or approved leak detection device should be attached to the

annulus in order to determine leakage in the casing, tubing, or packer.

(4) That the injection well or system should be equipped with a pop-off valve or acceptable substitute which will limit the wellhead pressure on the injection well to no more than ¹³⁷⁰~~700~~ psi.

see under
(5) That There should be no injection of ~~no~~ water produced into said well of water produced from any ~~other~~ formation other than the Abo formation without ~~the~~ written authorization ^{from} of the Secretary - Director of the Commission.

(1) That the applicant, Petroleum Corporation of Texas, is hereby authorized to utilize its Dexter Federal Well No. 3, located in Unit I of Section 22, Township 17 South, Range 30 East, NMPM, Jackson Abo Pool, Eddy County, New Mexico, to dispose of produced salt water into the Abo formation, injection to be accomplished through 2 3/8-inch tubing installed in a packer set at approximately 6800 feet, with injection into the perforated interval from approximately 6,852 feet to 6,877 feet;

PROVIDED HOWEVER, that the tubing shall be plastic-lined; that the casing-tubing annulus shall be filled with an inert fluid; and that a pressure gauge shall be attached to the annulus or the annulus shall be equipped with an approved leak detection device in order to determine leakage in the casing, tubing, or packer.

(2) That the injection well or system shall be equipped with a pop-off valve or acceptable substitute which will limit the wellhead pressure on the injection well to no more than ¹³⁷⁰ ~~2000~~ psi.

(3) That the operator shall notify the supervisor of the Artesia district office of the Commission of the date and time of the installation of disposal equipment so that the same may be inspected.

(4) That the operator shall immediately notify the supervisor of the Commission's Artesia district office of the failure of the tubing, casing, or packer, in said well or the leakage of water from or around said well and shall take such steps as may be timely and necessary to correct such failure or leakage.

(5) That the applicant shall submit monthly reports of its disposal operations in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.

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

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

(4) That prior to injection of ~~any~~ ^{any} into said well of ~~any~~ ^{any} ~~produced~~ waters produced from any formation other than the Abo formation. The operator shall obtain written approval from the Secretary-Director of the Commission.

(5) To obtain such approval. The operator shall submit an application setting forth the source and volume of such non-Abo formation waters, ~~and~~ an analysis of such non-Abo formation waters, and an analysis of the combined waters to be disposed of.

(6) The Secretary Director may administratively authorize the disposal of such additional waters if the

same does not result in the contamination of
which there may be a

(5) To obtain such approval. The operator shall submit an application setting forth the source and volume of such non-Abo formation waters, ~~and~~ an analysis of such non-Abo formation waters, and an analysis of the combined waters to be disposed of.

(6) The Secretary Director may administratively authorize the disposal of such additional waters if the same does not result in the contamination of waters for which there may be a reasonably foreseeable use.

