

GTLT - _____2_____

NMSU-TG-3

UL: J 14-29S-8W

Luna County

DRILLED: 8/8/1980

| | | |
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NEW MEXICO OIL CONSERVATION COMMISSION
P. O. Box 2088, Santa Fe 87501SUNDRY NOTICES AND REPORTS
ON
GEOTHERMAL RESOURCES WELLS5. Indicate Type of Lease
State ☐ Fee ☒

5.a State Lease No.

Do Not Use This Form for Proposals to Drill or to Deepen or Plug Back to a Different Reservoir. Use "Application For Permit -" (Form G-101) for Such Proposals.)

| | |
|--|--|
| 1. Type of well Geothermal Producer <input type="checkbox"/> Temp. Observation <input checked="" type="checkbox"/> Low-Temp Thermal <input type="checkbox"/> Injection/Disposal <input type="checkbox"/> | 7. Unit Agreement Name |
| 2. Name of Operator New Mexico State University C.A. Swanberg, Principal Investigator | 8. Farm or Lease Name NMSU |
| 3. Address of Operator Las Cruces, New Mexico 88003 | 9. Well No. TG-3 |
| 4. Location of Well Unit Letter _____ Feet From The _____ Line and _____ Feet From The <u>East</u> Line, Section <u>14</u> Township <u>29S</u> Range <u>R8W</u> NMPM. | 10. Field and Pool, or Wildcat Columbus |
| 15. Elevation (Show whether DF, RT, GR, etc.) 3997 MSL | 12. County Luna |

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐
PULL OR ALTER CASING ☐ CHANGE PLANS ☐
OTHER ☐

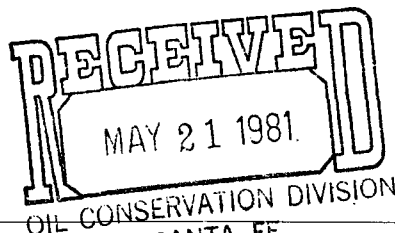
SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ PLUG & ABANDONMENT ☐
CASING TEST AND CEMENT JOB ☐
OTHER Information ☒

17. Describe Proposed or completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 203.

Well was drilled on August 8, 1980, and subsequently temperature logged several times.
PVC casing has been cut below grade and capped and the surface restored to original condition.

The well depth is approximately 100 ft. (see attached logs).



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

SIGNED Charles A. Swanberg TITLE Associate Professor DATE 5/15/81APPROVED BY Carl Ulvog TITLE SENIOR PETROLEUM GEOLOGIST DATE 6/4/81

CONDITIONS OF APPROVAL, IF ANY:

| | |
|------------------------|--|
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| File | |
| N. M. B. M. | |
| U. S. G. S. | |
| Operator | |
| Land Office | |

NEW MEXICO OIL CONSERVATION COMMISSION
P. O. Box 2088, Santa Fe 87501

SUNDRY NOTICES AND REPORTS
ON
GEOTHERMAL RESOURCES WELLS

5. Indicate Type of Lease
State ☐ Fee ☒
5.a State Lease No.

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| 2. Name of Operator New Mexico State University C.A. Swanberg, Principal Investigator | 8. Farm or Lease Name NMSU |
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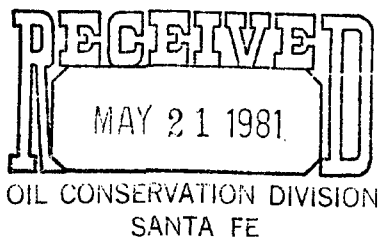
16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

| | | | |
|--|---|---|---|
| NOTICE OF INTENTION TO: | | SUBSEQUENT REPORT OF: | |
| PERFORM REMEDIAL WORK <input type="checkbox"/> | PLUG AND ABANDON <input type="checkbox"/> | REMEDIAL WORK <input type="checkbox"/> | ALTERING CASING <input type="checkbox"/> |
| TEMPORARILY ABANDON <input type="checkbox"/> | | COMMENCE DRILLING OPNS. <input type="checkbox"/> | PLUG & ABANDONMENT <input type="checkbox"/> |
| PULL OR ALTER CASING <input type="checkbox"/> | CHANGE PLANS <input type="checkbox"/> | CASING TEST AND CEMENT JOB <input type="checkbox"/> | |
| OTHER <input type="checkbox"/> | | OTHER Information | |

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The well depth is approximately 100 ft. (see attached logs).



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APPROVED BY Carl Ulvog TITLE SENIOR PETROLEUM GEOLOGIST DATE 6/4/81

CONDITIONS OF APPROVAL, IF ANY:



Lar Jon
DRILLING
COMPANY

P.O. BOX 925 MESILLA PARK, N.M. 88047

BORE HOLES AT COLUMBUS

Well Number

| | | | |
|-------|------------|---------|---|
| 1. | 33METERS | 108ft. | SAND, SANDY CLAY, CLAY |
| 2. | 31METERS | 101ft. | SAND, CLAY |
| 3. | 30.3METERS | 99ft. | SAND, SANDYCLAY, CLAY |
| 4. | 30.2METERS | 99ft. | SAND, SANDYCLAY, CLAY |
| 5. | 32.5METERS | 106ft. | SAND, SANDYCLAYS |
| 6. | 27.5METERS | 90ft. | SAND, STREADS OF CLAY |
| 7. | 26.5METERS | 87.5ft. | SAND, STREADS OF CLAY |
| 8. | 31.8METERS | 104ft. | ALLUVIUM, SANDYCLAYS, CLAY |
| 9. | 31.4METERS | 103ft. | ALLUVIUM, SANDYCLAYS, CLAY |
| 10. | 30.5METERS | 100ft. | SAND, SANDYCLAY, CLAYS |
| 11. | 30.5METERS | 100ft. | SAND, SANDYCLAYS, CLAYS |
| 12. | 30.5METERS | 100ft. | SAND, SANDYCLAYS, CLAYS |
| 13. | 31.5METERS | 103ft. | SAND, SANDYCLAYS, CLAYS |
| 14. | 34METERS | 111ft. | SAND, SANDYCLAYS |
| 15. | 32.5METERS | 106ft. | SAND, SANDYCLAYS, CLAYS |
| 16. | 28.8METERS | 94ft. | SAND, SANDYCLAYS |
| TG-3. | 31METERS | 101ft. | SAND, SANDYCLAYS, CLAYS (NMSU identification number TG-3) |

ALL BORE HOLES WERE DRILLED TO A DEPTH OF 100ft. + 10ft., BUT DUE TO SLUMPING AND CAVING SOME HOLES ARE NOT IN THE RANGE, THE METER DEPTH IS. THE ACTUAL AMOUNT OF 1" PVC CASING THAT WAS PUT DOWN HOLE.

Test Hole #13, Columbus, N.M.

| Depth m | 10/2/80 | Temp. °C |
|------------|---------|-------------|
| 5 | | 21.37 |
| 10 | | 20.18 |
| 15 | | 20.72 |
| 20 | | 20.95 |
| 25 | | 21.14 |
| 30 | | 21.34 |
| 31.5 | | 21.38 |

Test Hole #14, Columbus, N.M.

| Depth m | 10/2/80 | Temp. °C |
|------------|---------|-------------|
| 5 | | 21.04 |
| 10 | | 20.25 |
| 15 | | 20.64 |
| 20 | | 20.82 |
| 25 | | 21.00 |
| 30 | | 21.21 |
| 34 | | 21.36 |

Test Hole #15, Columbus, N.M.

| Depth m | 10/21/80 | Temp. °C |
|------------|----------|-------------|
| 5 | | 21.41 |
| 10 | | 20.78 |
| 15 | | 21.23 |
| 20 | | 21.52 |
| 25 | | 21.81 |
| 30 | | 22.04 |
| 32.5 | | 22.14 |

Test Hole #16, Columbus, N.M.

| Depth m | 10/21/80 | Temp. °C |
|------------|----------|-------------|
| 5 | | 21.05 |
| 10 | | 20.15 |
| 15 | | 20.44 |
| 20 | | 20.75 |
| 25 | | 20.97 |
| 28.8 | | 21.16 |

AIMSU TG-3

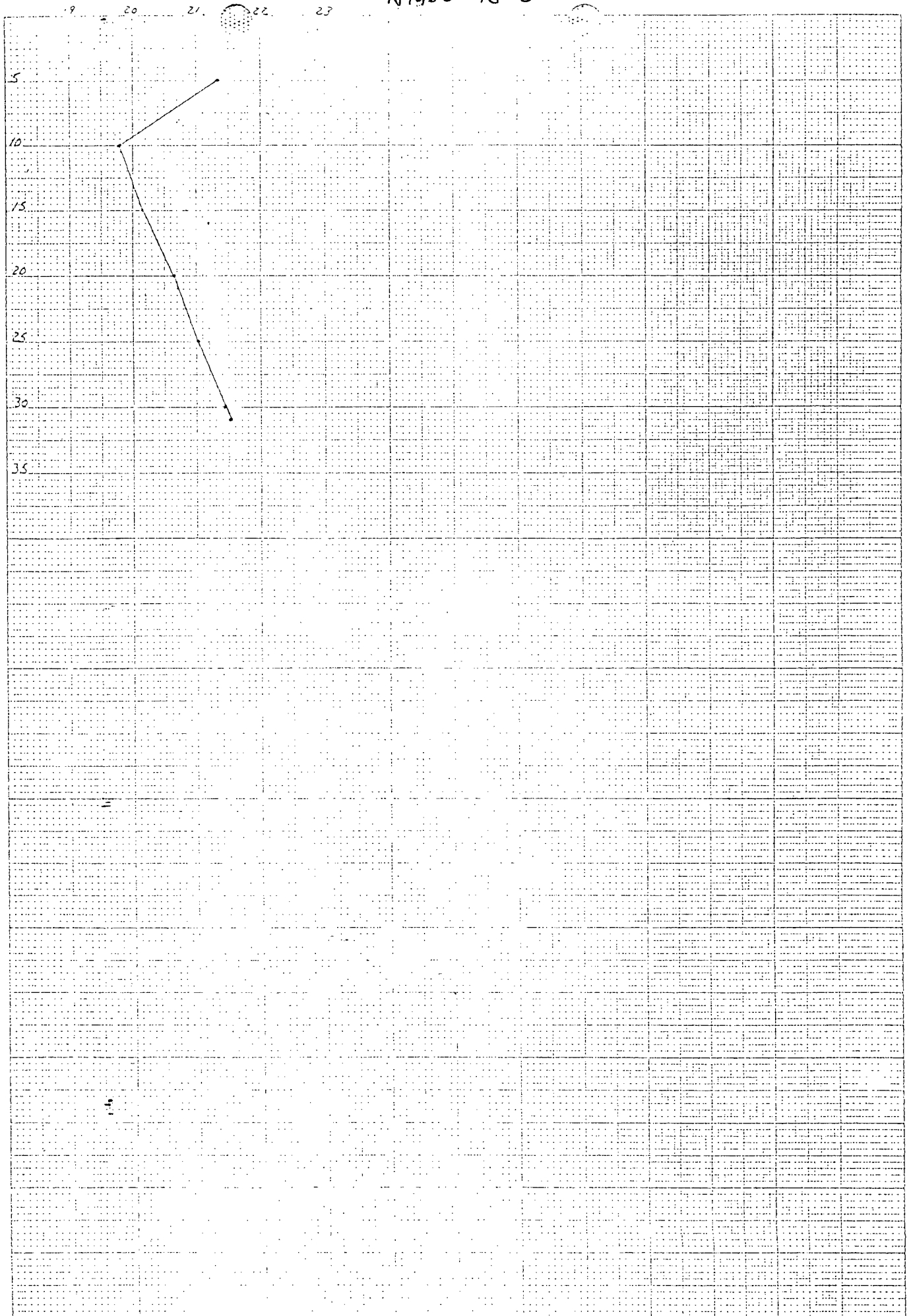
Test Hole #17, Columbus, N.M.

| Depth m | 10/2/80 | Temp. °C |
|------------|---------|-------------|
| 5 | | 21.32 |
| 10 | | 19.80 |
| 15 | | 20.16 |
| 20 | | 20.65 |
| 25 | | 21.01 |
| 30 | | 21.46 |
| 31 | | 21.52 |

NMSU TG-3

depth
m
17
12/80

25120





Lar Jon

DRILLING
COMPANY

P.O. BOX 925 MESILLA PARK, N.M. 88047

BORE HOLES AT COLUMBUS

| <u>Well Number</u> | | | |
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| 1. | 33METERS | 108ft. | SAND, SANDY CLAY, CLAY |
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| 5. | 32.5METERS | 106ft. | SAND, SANDYCLAYS |
| 6. | 27.5METERS | 90ft. | SAND, STREADS OF CLAY |
| 7. | 26.5METERS | 87.5ft. | SAND, STREADS OF CLAY |
| 8. | 31.8METERS | 104ft. | ALLUVIUM, SANDYCLAYS, CLAY |
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| 15 | | 20.44 |
| 20 | | 20.75 |
| 25 | | 20.97 |
| 28.8 | | 21.16 |

NIMSU TG-3

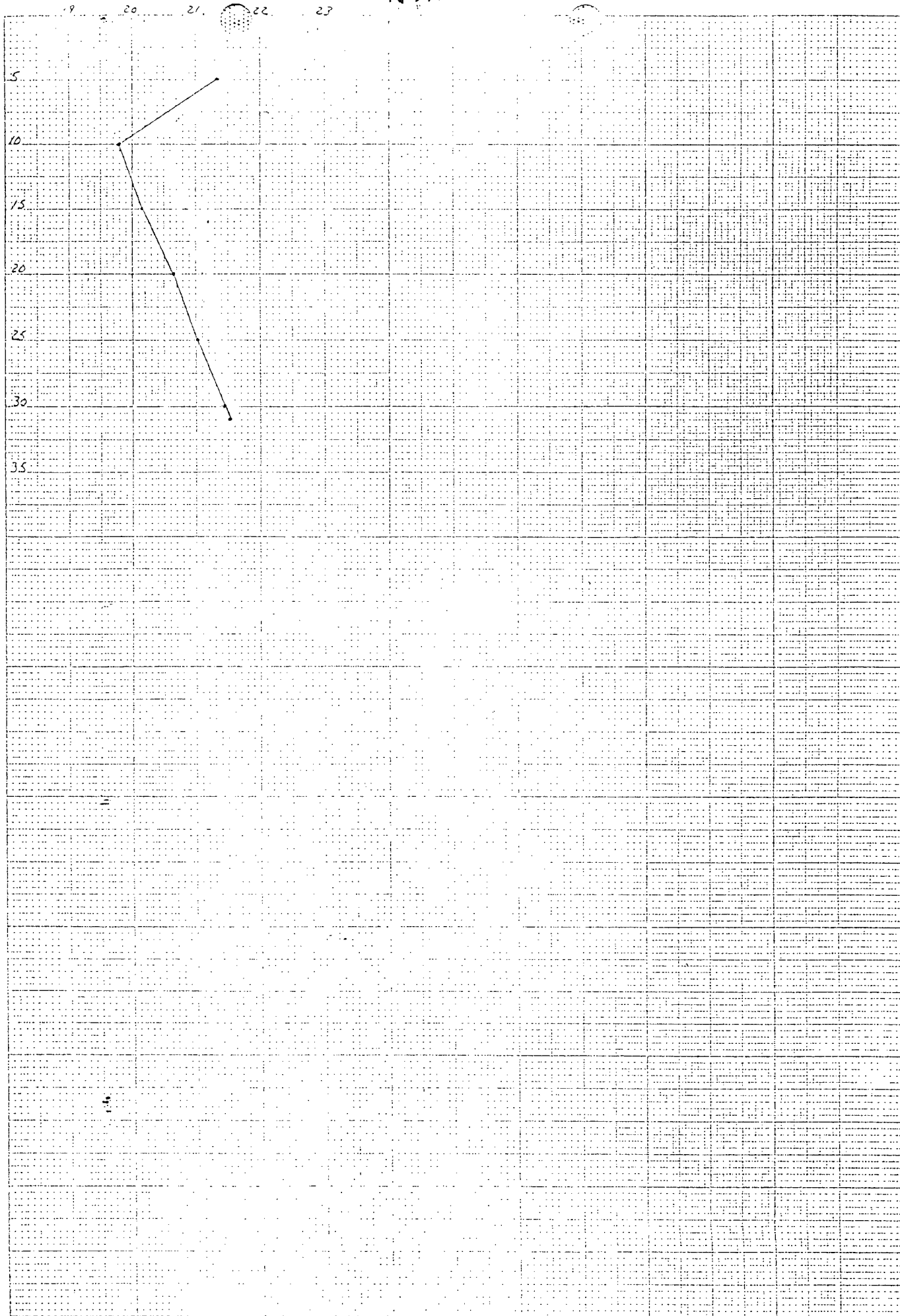
Test Hole #17, Columbus, N.M.

| Depth m | 10/2/80 | Temp. °C |
|------------|---------|-------------|
| 5 | | 21.32 |
| 10 | | 19.80 |
| 15 | | 20.16 |
| 20 | | 20.65 |
| 25 | | 21.01 |
| 30 | | 21.46 |
| 31 | | 21.52 |

NMSU TG-3

depth
m
17
12/80

25120



Santa Fe, New Mexico 87501

May 18, 1981

Dear Mr. Ramey:

Please find enclosed a copy of Forms G-103 for the two geothermal wells in Luna County. The formation and temperature logs are attached.

A second mailing will contain this same material in triplicate as per the OCD Rules and Regulations. Thank you for your patience in this matter.

Sincerely yours,

Larry Icerman

Larry Icerman
Director

cjs

Enclosure

T G - 3

15. Elevation (Show whether DF, RT, CR, etc.)

3997 MSL

11. County

Luna

16.

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐PLUG AND ABANDON ☐TEMPORARILY ABANDON ☐PULL OR ALTER CASING ☐CHANGE PLANS ☐OTHER ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ALTERING CASING ☐COMMENCE DRILLING OPNS. ☐PLUG & ABANDONMENT ☐CASING TEST AND CEMENT JOBS ☐

OTHER Information

17. Describe Proposed or Completed Operations (Clearly state all pertinent details and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 203.

Well was drilled on August 8, 1980, and subsequently temperature logged several times. PVC casing has been cut below grade and capped and the surface restored to original condition.

The well depth is approximately 100 ft. (see attached logs).

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

SIGNED

Charles A. Swartz

TITLE

Associate Professor

DATE

5/15/81

APPROVED BY

TITLE

DATE

Well numbers
Bore Hole at Columbus

1. 33 meters 108 ft. Sand,
Sandy clay, Clay
2. 31 meters 101 ft. Sand,
Clay

Larkon Drilling Company
P.O. Box 925
Masilla Park
New Mexico 88047

505-526-8672

As per telephone conversation
by Sherilyn Gilber
May 19, 1981 11:00

| | | | | |
|-------|------------|---------|----------------------------|-----------------------------------|
| 3. | 30.3METERS | 99ft. | SAND, SANDYCLAY, CLAY | |
| 4. | 30.2METERS | 99ft. | SAND, SANDYCLAY, CLAY | |
| 5. | 32.5METERS | 106ft. | SAND, SANDYCLAYS | |
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ALL BORE HOLES WERE DRILLED TO A DEPTH OF 100ft. + 10ft., BUT DUE TO SLUMPING AND CARVING SOME HOLES AND NOT IN THE RANGE, THE WATER DEPTH IS. THE ACTUAL AMOUNT OF 1" PVC CASING THAT WAS PUT DOWN HOLE.

*WATER WELLS

*TEST HOLES

*PUMPS

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NMSU TG-3

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| 10 | | 19.80 |
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| 20 | | 20.63 |
| 25 | | 21.01 |
| 30 | | 21.46 |

T-C

19

20

21

22

23

depth

m

17

1/10

25.20

5

10

15

20

25

30

35

40

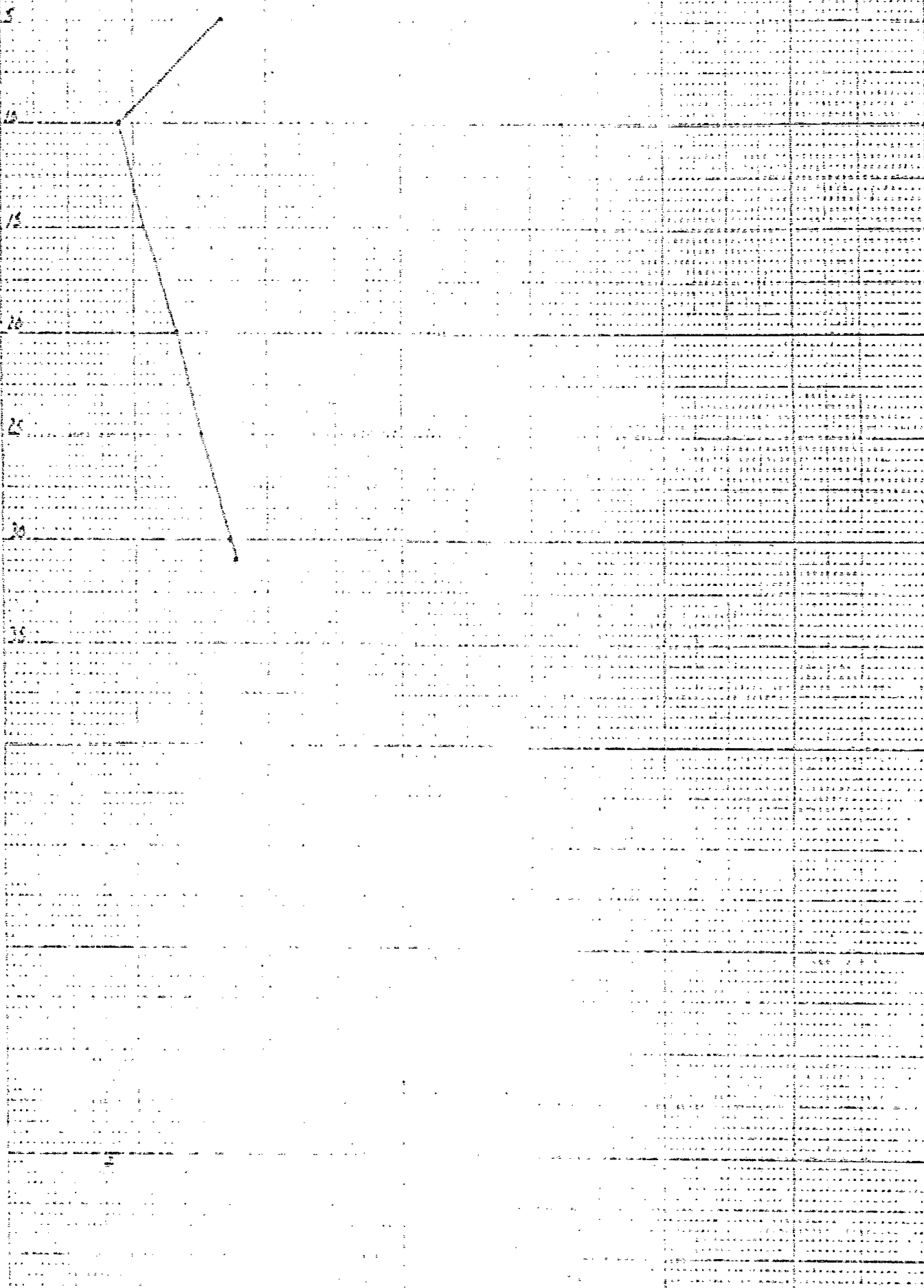
45

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55

60

65



NEW MEXICO ENERGY INSTITUTE

OFFICE OF THE DIRECTOR
Box 3EI/Las Cruces, New Mexico 88003
Telephone (505) 646-1745



May 11, 1981

File TG-3

Mr. Carl Ulvog
Senior Geologist
Oil Conservation Division
State Land Office Building
P.O. Box 2088
Santa Fe, New Mexico 87501

Dear Mr. Ulvog:

Please find enclosed copies of the well logs for two geothermal temperature gradient wells, NMSU TG-3 and NMSU DT-4, that were drilled near Columbus, New Mexico. Wells TG-3 and DT-4 were permitted for 100 ft. and 1,000 ft., respectively.

If I can be of any further assistance in this matter, please do not hesitate to contact me.

Sincerely yours,

A handwritten signature in cursive script that reads "Larry Icerman".

Larry Icerman
Director

cjs

Enclosure



Lar Jon

DRILLING COMPANY

P.O. BOX 925 MESILLA PARK, N.M. 88047

BORE HOLES AT COLUMBUS

Well Number

| | | | |
|-------|------------|---------|---|
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| 2. | 31METERS | 101ft. | SAND, CLAY |
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Memo

4/30/81

From

CARL ULVOG

To File NMSU #TG-3
J-14-295-8W

On 10/1/80 this well had been drilled and capped-plastic pipe was in place. It is near the deep well now drilling below 750'.

4/29 - Could not find well. It may be in a water-filled depression (recent rain) of which there are many; or it could have been run over by vehicles and location obliterated. Attendants at Border Station had no knowledge of any activity in area after deep well was drilled and abandoned.

| | |
|------------------------|-------|
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| DISTRIBUTION | |
| File | 1 ✓ |
| N.M.B.M. | 1 |
| U.S.G.S. | 1 |
| Operator | 1 |
| Land Office | BLM 1 |

NEW MEXICO OIL CONSERVATION COMMISSION

P. O. Box 2088, Santa Fe 87501

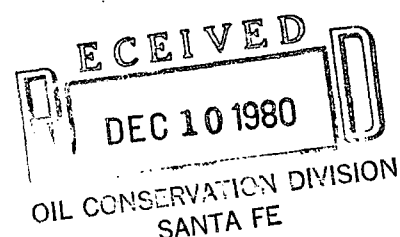
APPLICATION FOR PERMIT TO DRILL, DEEPEN,
OR PLUG BACK---GEOTHERMAL RESOURCES WELL

| |
|--|
| 5. Indicate Type of Lease |
| STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/> |
| 5.a State Lease No. |

| | | |
|---|--|--|
| 1a. Type of Work | Drill <input checked="" type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> | 7. Unit Agreement Name |
| b. Type of Well | Geothermal Producer <input type="checkbox"/> Temp Observation <input checked="" type="checkbox"/> Low-Temp Thermal <input type="checkbox"/> Injection/Disposal <input type="checkbox"/> | 8. Farm or Lease Name NMSU |
| 2. Name of Operator | New Mexico State University C.A. Swanberg, Principal Investigator | 9. Well No. TG-3 |
| 3. Address of Operator | Las Cruces, New Mexico | 10. Field and Pool, or Wildcat Columbus |
| 4. Location of Well | UNIT LETTER <u>J</u> LOCATED <u>2012.11 Ft. West and 132.47 Ft.</u> <u>South of the East Quarter Corner</u> OF SEC. 14 TWP. T29S RGE. R8W NMPM | 12. County Luna |
| 19. Proposed Depth 100' | | 19A. Formation alluvial |
| 21. Elevations (Show whether DF, RT, etc.) 3997 MSL | | 20. Rotary or C.T. Rotary |
| 21A. Kind & Status Plug. Bond Fireman's Fund | | 22. Approx. Date Work will start 8/8/80 |
| 21B. Drilling Contractor Lar Jon Drilling Co., Las Cruces, NM | | |
| Grindell & Rollings, Bond No. 6358015 PROPOSED CASING AND CEMENT PROGRAM | | |

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | SACKS OF CEMENT | EST. TOP |
|--------------|----------------|-----------------|---------------|-----------------|----------|
| 6" | 1" | plastic | 100' | back filled | |
| | | | | | |
| | | | | | |

Note: Carry Location as 2772.5' FNL and 2012.1' FEL



IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. Give blowout preventer program, if any.

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

Signed Larry Andrew Wood Title Engineer and Land Surveyor Date Dec. 9, 1980
(This space for State Use)

APPROVED BY Carl Helweg TITLE SENIOR PETROLEUM GEOLOGIST DATE 12/11/80
CONDITIONS OF APPROVAL, IF ANY:

GEOHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

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

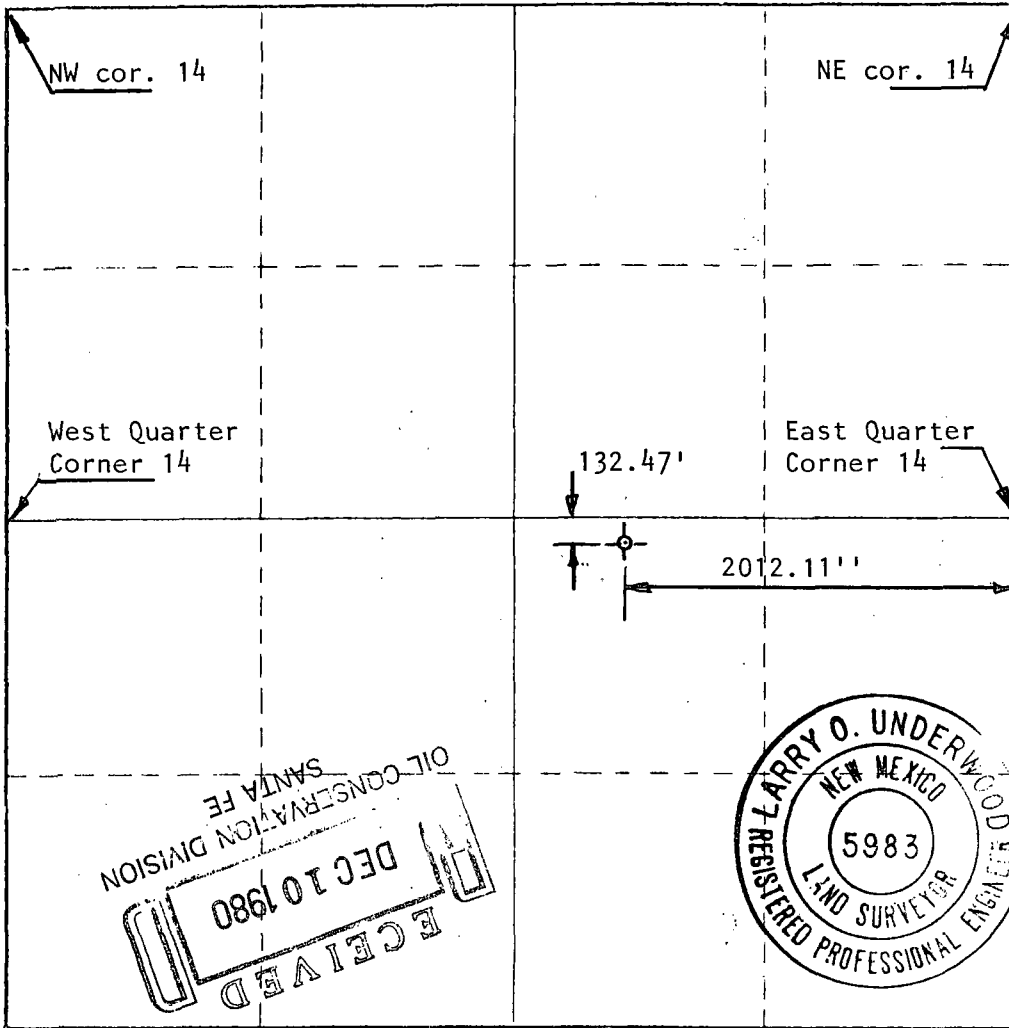
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|---|---------------|---------------------|--------------|-------------------------------------|--|
| Operator New Mexico State University C.A. Swanberg, Principal Investigator | | Lease NMSU | | Well No. TG-3 | |
| Unit Letter J | Section 14 | Township T29S | Range R8W | County Luna | |
| Actual Footage Location of Well: 2012.11 Ft. West and 132.47 Ft. South of the East Quarter Corner of said Section 14 | | | | | |
| Ground Level Elev. 3997 | | Producing Formation | | Pool Dedicated Acreage: Acres | |

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

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

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

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



CERTIFICATION

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

Name

Position

Company

Date

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

Dec. 9, 1980

Date Surveyed

Larry Underwood
Registered Professional Engineer
and/or Land Surveyor

Larry O. Underwood
P.E. and L.S. # 5983

Certificate No.