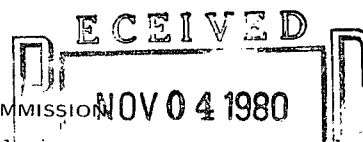


GTLT - _____2_____

NMSU PG-2

UL:C 27-23S-02E

Dona Ana County



NEW MEXICO OIL CONSERVATION COMMISSION

P. O. Box 2088, Santa Fe 87501

OIL CONSERVATION DIVISION
SANTA FE

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| U.S.G.S. | 1 | |
| Operator | 1 | |
| Land Office | BLM | |

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

5. Indicate Type of Lease

STATE ☐ FEE ☐

5.a State Lease No.

| | | | |
|------------------|--|---|------------------------------------|
| 1a. Type of Work | Drill <input checked="" type="checkbox"/> | Deepen <input type="checkbox"/> | Plug Back <input type="checkbox"/> |
| b. Type of Well | Geothermal Producer <input type="checkbox"/> | Temp Observation <input type="checkbox"/> | |
| | Low-Temp Thermal <input checked="" type="checkbox"/> | Injection/Disposal <input type="checkbox"/> | |

7. Unit Agreement Name

8. Farm or Lease Name

2. Name of Operator
Physical Plant Department, NMSU

9. Well No.

NMSU-PG-2

3. Address of Operator
Box 3-PPD, NMSU, Las Cruces, NM 88003

10. Field and Pool, or Wildcat

NMSU Property

4. Location of Well UNIT LETTER _____ LOCATED 3,000 FEET FROM THE East LINE

AND 1,200 FEET FROM THE North LINE OF SEC. 27 TWP. 23S RGE. 2E NMPM

12. County

Dona Ana

| | | |
|---|---|---|
| 19. Proposed Depth 505 ft. | 19A. Formation Unconsolidated Sedimentary | 20. Rotary or C.T. Rotary |
| 21. Elevations (Show whether DF, RT, etc.) 4,100 | 21A. Kind & Status Plug. Bond | 21B. Drilling Contractor Aqua Drilling Co., Anthony, |
| | | 22. Approx. Date Work will start 7/11/79 |

TX

PROPOSED CASING AND CEMENT PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | SACKS OF CEMENT | EST. TOP |
|--------------|----------------|-----------------|---------------|-----------------|----------|
| 9 7/8" | 6" | | | | |
| | | | | | |
| | | | | | |

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 M. F. Whalen Title Director Date 10/31/80

(This space for State Use)

APPROVED BY Carl Ulvog TITLE SENIOR PETROLEUM GEOLOGIST DATE 11-6-80

CONDITIONS OF APPROVAL, IF ANY:

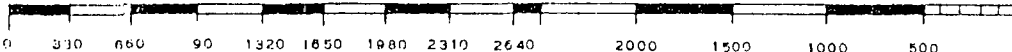
RECEIVED
DEDICATION PLATE

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

Section. NOV 04 1980 Well No. NMSU-P
OIL COM. RATION DIVISION
Dona ANITA FE

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

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.



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

Date 10/31/80

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.

Date Surveyed _____

Registered Professional Engineer
and/or Land Surveyor

Certificate No. _____

| | |
|------------------------|--|
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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

RECEIVED

OCT 14 1980

SUNDRY NOTICES AND REPORTS
ON OIL CONSERVATION
GEOTHERMAL RESOURCES WELLS SANTA FE

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 ☐ Temp. Observation ☐
Low-Temp Thermal ☒ Injection/Disposal ☐

7. Unit Agreement Name

2. Name of Operator

8. Farm or Lease Name

Physical Plant Department, NMSU

3. Address of Operator

9. Well No.

Box 3-PPD, NMSU, Las Cruces, NM

NMSU-PG-2

4. Location of Well

10. Field and Pool, or Wildcat

Unit Letter 3000 Feet From The East Line and 1200 Feet From

NMSU Property

The North Line, Section 27 Township 235 Range 2E NMPM.

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

4100

12. County

Dona Ana

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 ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ PLUG & ABANDONMENT ☐
CASING TEST AND CEMENT JOB ☐OTHER ☐OTHER Convert water well to low-temp. ☒
thermal well

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.

Purpose is to convert a water supply well to a low-temperature thermal

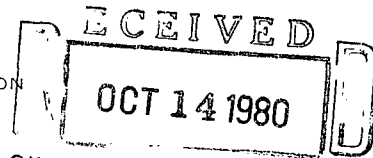
well, since the well encountered water hotter than was expected.

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

SIGNED William H. G. Jr. TITLE Director, Physical Plant DATE 10/9/80
Department, NMSU

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:



GEOHERMAL RESOURCES WELL SUMMARY REPORT
OIL CONSERVATION DIVISION
SANTA FE

Operator Physical Plant Department, NMSU Address Box 3-PPD, NMSU, Las Cruces, NM 88003
Lease Name _____ Well No. NMSU-PG-2
Unit Letter _____ Sec. 27 Twp. 235 Rge 2E
Reservoir NMSU Property County Dona Ana

Commenced drilling 7/11/79 GEOLOGICAL MARKERS DEPTH
Completed drilling 7/13/79
Total depth 505 Plugged depth _____
Junk _____
Commenced producing January 1980 Geologic age at total depth: _____
(Date)

| Date | Static test | | Production Test Data | | | | | | | | |
|---------|-------------------|--|----------------------|----------|-------------|----------|---------|----------------|--------------|-------------|----------|
| | Shut-in well head | | Total Mass Flow Data | | | | | Separator Data | | | |
| | | | Lbs/Hr | Temp. °F | Pres. Psig. | Enthalpy | Orifice | Water cuft/Hr | Steam Lbs/Hr | Pres. Psig. | Temp. °F |
| Jan. 30 | | | 9,000 | 118°F | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

CASING RECORD (Present Hole)

| Size of Casing | Weight of Casing/ft. | Grade of Casing | New or Used | Seamless or Lapweld | Depth of Shoe | Top of Casing | Number of Sacks of Cement | Top of Cement | Cement Top Determined By |
|----------------|----------------------|-----------------|-------------|---------------------|---------------|---------------|---------------------------|---------------|--------------------------|
| 6" | | | New | Lapweld | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

PERFORATED CASING

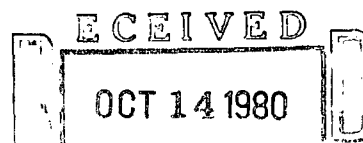
(Size, top, bottom, perforated intervals, size and spacing of perforation and method.)

Was analysis of effluent made? Yes Electrical log depths 505 feet Temperature log depths 505 feet

CERTIFICATION

I hereby certify that the information given above and the data and material attached hereto are true and complete to the best of my knowledge and belief.

Signed [Signature] Position Director, Physical Plant Department, NMSU Date 10/9/80

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

GEOTHERMAL RESOURCES WELL HISTORY

OIL CONSERVATION DIVISION
SANTA FE

Operator Physical Plant Department, NMSU Address Box 3-PPD, NMSU, Las Cruces, NM 88003
Lease Name _____ Well No. NMSU-PG-2
Unit Letter _____ Sec. 27 Twp. 235 Rge 2E
Reservoir NMSU Property County Dona Ana

It is of the greatest importance to have a complete history of the well. Use this form to report a full account of all important operations during the drilling and testing of the well or during re-drilling, altering of casing, plugging, or abandonment with the dates thereof. Be sure to include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, shooting, and initial production data and zone temperature. (Attach additional sheets if necessary.)

Date

/11/79 Well drilled as a water well by Aquia Drilling Co., Anthony, Texas. Well was drilled by rotary rig, with a hole size 9 7/8", and a 6" casing set to total depth of 507 feet. Well was gravel packed. Formation is unconsolidated sedimentary deposits. Well has a temperature of 118°F, producing from a zone between 451 and 471 feet deep.

/5/80 A pump was set in the well, and it successfully was flow tested at 18 gpm at 118°F.

CERTIFICATION

I hereby certify that the information given above and the data and material attached hereto are true and complete to the best of my knowledge and belief.

Signed [Signature] Position Director, Physical Plant Department, NMSU Date 10/9/80



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR
LARRY KEHOE
SECRETARY

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-2434

December 11, 1980

Mr. M. F. Whalen, Director
Physical Plant Department
New Mexico State University
Box 3545
Las Cruces, New Mexico 88003

Dear Mr. Whalen:

Permission is granted to dispose of the produced geothermal water from Well PG-2 into the potable water system located at the University.

It is my understanding that waters from this well will be utilized for heating purposes and that the waters when mixed with the waters from your present potable water supply will present no hazard for human consumption.

Yours very truly,

JOE D. RAMEY
Director

JDR/fd

cc: ✓ Carl Ulvog



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR

LARRY KEHOE
SECRETARY

November 20, 1980

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-2434

New Mexico State University
Physical Science Laboratory
Box 3-PSL
Las Cruces, New Mexico 88003

Attention: Mr. Roy A. Cunniff

Gentlemen:

Your request for approval of a temporary surface discharge for geothermal water is denied.

It is my opinion that all forms, reports, etc., due this office on all wells drilled by NMSU should be submitted before any further work is authorized. When these have been approved we will be happy to discuss further activities.

I regret going to this extreme but we need the information and I can see no other solution short of filing in District Court.

Yours very truly,

JOE D. RAMEY
Director

JDR/fd

cc: ✓ Carl Ulvog

COLLEGE OF AGRICULTURE AND HOME ECONOMICS

DEPARTMENT OF AGRONOMY
Box 30/Las Cruces, New Mexico 88003
Telephone (505) 646-3405



TO: Dr. Harold Daw

DATE: 8-14-79

FROM: Andrew Bristol

SUBJECT: President's House Water Sample

| -----meq/l----- | | | | | | | | | | |
|-----------------|-------|------|------|-------|------------|-------|-----------------|------------------|-----------------|-----------|
| Sample | Na | Ca | Mg | K | Tot Cat | Cl | CO ₃ | HCO ₃ | SO ₄ | Tot An |
| Pres. House | 16.60 | 0.96 | 2.22 | 4.47 | 24.25 | 11.90 | 0 | 8.34 | 4.71 | 24.95 |
| mg/l → | 381.6 | 19.2 | 27.0 | 174.8 | | 421.9 | 0 | 508.9 | 226.2 | |

| Sample | mmhos/cm | | | | | | | | | | | |
|----------------|----------|------|------|------|------|------------|------|------------------|------|------|--|--|
| | EC | pH | B | F | As | ppm TDS | P | SiO ₂ | Fe | Mn | | |
| Pres. House | 2.48 | 8.35 | 0.23 | 1.31 | .013 | 1704 | .135 | 57.50 | 0.55 | 1.05 | | |

SAR = 13.16

Alkalinity as CaCO₃ = 417 ppm

RSC = 5.16

Hardness as CaCO₃ = 159 ppm

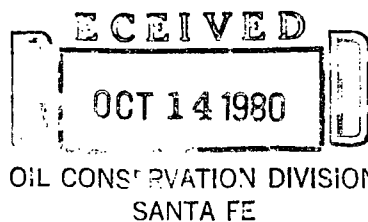
USDA Irrigation Class - C4-S4

Samples taken by MacGregor

| Sample | Hardness as CaCO ₃ | ppm | | |
|--------------|-------------------------------|-----|------|-------|
| | | | Fe | Mn |
| Large Bottle | 125.5 | | 4.10 | 0.69 |
| Pop Bottle | | | 1.69 | 1.47. |

NEW MEXICO ENERGY INSTITUTE

Box 3E1/Las Cruces, New Mexico 88003
Telephone (505) 646-1745



PG-2

October 10, 1980

Mr. Carl Ulvog
Senior Geologist
Oil Conservation Division
Energy and Minerals Department
P.O. Box 2088
State Land Office Building
Santa Fe, NM 87501

Dear Mr. Ulvog:

Please find enclosed a Form G-103 to convert a NMSU water well to a low-temperature thermal well. This application is a somewhat belated response to your letter of July 31, 1979, to Dr. Harold Daw. Apparently, your letter was misplaced and I am attempting to handle unfinished old business. Your letter also requested that Forms G-106 and G-107 be submitted which are enclosed.

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

Sincerely yours,

Larry Icerman

Larry Icerman
Director

nar

Note: I attached a copy of my 5/3/79 letter to this for clarification. Apparently Dr. Daw (or whoever at NMSU) never filed C-101 or C-102 for the low-temp water well. Location given by forms sent with this letter does not agree with any of 3 permitted wells in Sec 27.

CU

SOLAR

GEOTHERMAL

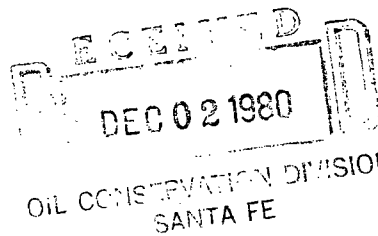
WIND

WASTE CONVERSION

PHYSICAL PLANT DEPARTMENT

Box 3545/Las Cruces, New Mexico 88003
Telephone (505) 646-3021

November 21, 1980



Re: University Center and Residence -
Geothermal Well

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

Dear Mr. Ramey:

This letter will confirm our conversation of this date relative to New Mexico State University PG-2, the geothermal well we are using to heat the University Center and Residence. The well is presently in production heating the building, having been started about two weeks ago. We do have our approval on Form G-101. It is the only well Physical Plant is completely responsible for.

We were first made aware of the need for a permit to dispose of the water on November 7 and called your office asking if we could inject it into the potable water system and to send proper forms and instructions. It is my understanding they are now enroute. I cite this only to show our intention to comply with all regulations as rapidly as possible.

You advised me it is all right to use the water for domestic purposes. Therefore, we are proceeding immediately to run a pipeline to the campus 3,000,000 gallon water tank. Please confirm this is approved.

Sincerely,

M. F. Whalen
M. F. Whalen, Director
Physical Plant Department

MFW/mm

approval letter
12/11/80



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR

LARRY KEHOE
SECRETARY

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-2434

December 11, 1980

Mr. M. F. Whalen, Director
Physical Plant Department
New Mexico State University
Box 3545
Las Cruces, New Mexico 88003

Dear Mr. Whalen:

Permission is granted to dispose of the produced geothermal water from Well PG-2 into the potable water system located at the University.

It is my understanding that waters from this well will be utilized for heating purposes and that the waters when mixed with the waters from your present potable water supply will present no hazard for human consumption.

Yours very truly,


JOE D. RAMEY
Director

JDR/fd

cc: Carl Ulvog



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR

LARRY KEHOE
SECRETARY

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-2434

July 31, 1979

Dr. Harold A. Daw
New Mexico State University
P. O. Box 3004
Las Cruces, New Mexico 88003

Dear Harold:

With respect to our telephone conversation today, here is what we propose:

I. For Jemez Springs well:

Submit Form G-103 to change status from "Temperature Observation" to "Low-Temperature Thermal" well. Refer to Rule 203-B (9) and Rule 203-C (5) and (7).

Submit Form G-106. Refer to Rule 206-B.
Submit Form G-107. Refer to Rule 207-B.

II. For New Mexico State University "Water Well":

Submit same forms as described above, except that Form G-103 will be for purpose of "convert water supply well" to "Low-Temperature Thermal" well. See Rule 203-B (9) and Rule 203-C (1), (2) and (3). This assumes of course that well is to be temporarily abandoned, ie, not to be put on production immediately.

It will be apparent that the foregoing described methods of getting the wells "legal" and helping us to get our files into some semblance of logical order, are somewhat unorthodox. However, these two cases are the first of their kinds and we are sort of "plowing new ground" so a little improvising may be justified on the basis that we are simplifying reaching our objective. Anyhow, the Jemez Springs deal was such a fiasco to begin with, that there is now no way that the rules could be complied with strictly. Incidentally, it might be wise to consider the operator of the well located in Unit A, Section 26, Township 18 North, Range 2 East to be the "Village of Jemez Springs" rather than "Eddie Armenta." (See copy of last G-103 filed by Kleeman, attached). Also, you could be "Project Manager" as of March 30th.

-2-

Enclosed are the forms referred to above. You will note that the rules specify they be filed in "triplicate." For our purposes one original and two copies suffice.

Should you be confused by the methods outlined above or have questions concerning the data required by the forms do not hesitate to contact us.

Yours truly,

CARL ULVOG
Senior Geologist

CU7og



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR

LARRY KEHOE
SECRETARY

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-2434

December 11, 1980

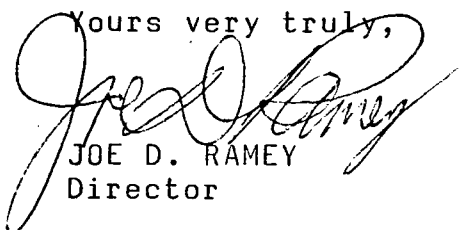
Mr. M. F. Whalen, Director
Physical Plant Department
New Mexico State University
Box 3545
Las Cruces, New Mexico 88003

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Yours very truly,



JOE D. RAMEY
Director

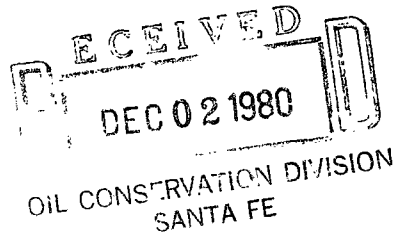
JDR/fd

cc: Carl Ulvog

PHYSICAL PLANT DEPARTMENT

Box 3545/Las Cruces, New Mexico 88003
Telephone (505) 646-3021

November 21, 1980



Re: University Center and Residence -
Geothermal Well

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

Dear Mr. Ramey:

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Sincerely,

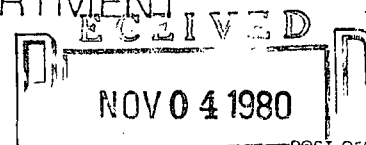
M. F. Whalen
M. F. Whalen, Director
Physical Plant Department

MFW/mm

approval letter
12/11/80

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

BRUCE KING
GOVERNORLARRY KEHOE
SECRETARY

July 31, 1979

POST OFFICE BOX 2088
STATE OF NEW MEXICO OFFICE BUILDING
OIL CONSERVATION DIVISION
SANTA FE, NEW MEXICO 87501
15051 827-2434

NEW MEXICO STATE UNIVERSITY

AUG 2 1979

ASSOCIATE ACADEMIC
VICE PRESIDENT

Dr. Harold A. Daw
New Mexico State University
P. O. Box 3004
Las Cruces, New Mexico 88003

Dear Harold:

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I. For Jemez Springs well:

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-2-

Enclosed are the forms referred to above. You will note that the rules specify they be filed in "triplicate." For our purposes one original and two copies suffice.

Should you be confused by the methods outlined above or have questions concerning the data required by the forms do not hesitate to contact us.

Yours truly,

Carl Ulvog

CARL ULVOG
Senior Geologist

CU/og

NEW MEXICO ENERGY INSTITUTE

Box 3E1/Las Cruces, New Mexico 88003
Telephone (505) 646-1745



October 31, 1980

Mr. Carl Ulvog
Senior Geologist
Oil Conservation Division
Energy and Minerals Department
P.O. Box 2088
State Land Office Building
Santa Fe, NM 87501

Dear Mr. Ulvog:

Pursuant to our discussions on October 28, 1980, please find enclosed Forms G-101 and G-102 for well number NMSU-PG-2. I have also enclosed for your convenience a copy of your letter of July 31, 1979, to Dr. Harold Daw that is referred to in my letter dated October 10, 1980, that accompanied the submission of Forms G-103, G-106, G-107 for well number NMSU-PG-2.

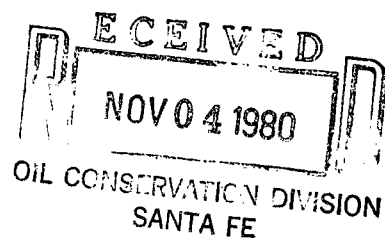
Thank you for your cooperation in this matter. If I can be of any further assistance, please do not hesitate to contact me.

Sincerely yours,

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

Larry Icerman
Director

Enclosures



SOLAR

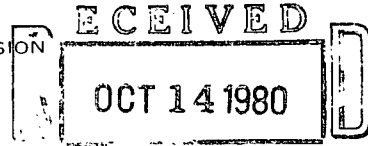
GEOTHERMAL

WIND

WASTE CONVERSION

| | | |
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| 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

OIL CONSERVATION DIVISION
SANTA FE 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 ☐ Temp. Observation ☐
Low-Temp Thermal ☒ Injection/Disposal ☐

7. Unit Agreement Name

2. Name of Operator

Physical Plant Department, NMSU

8. Farm or Lease Name

3. Address of Operator

Box 3-PPD, NMSU, Las Cruces, NM

9. Well No.

NMSU-PG-2

4. Location of Well

Unit Letter _____ 3000 Feet From The East Line and 1200 Feet From

10. Field and Pool, or Wildcat

NMSU Property

The North Line, Section 27 Township 235 Range 2E NMPM.

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

4100

12. County

Dona Ana

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 Convert water well to low-temp. thermal well ☒

SUBSEQUENT REPORT OF:

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

OTHER ☐

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.

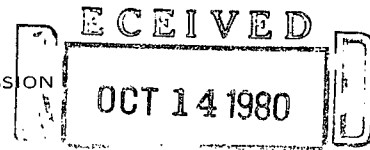
Purpose is to convert a water supply well to a low-temperature thermal well, since the well encountered water hotter than was expected.

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

SIGNED [Signature] TITLE Director, Physical Plant DATE 10/9/80
Department, NMSU

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:



OIL CONSERVATION DIVISION
SANTA FE
GEOHERMAL RESOURCES WELL SUMMARY REPORT

Operator Physical Plant Department, NMSU Address Box 3-PPD, NMSU, Las Cruces, NM 88003
Lease Name _____ Well No. NMSU-PG-2
Unit Letter _____ Sec. 27 Twp. 235 Rge 2E
Reservoir NMSU Property County Dona Ana

Commenced drilling 7/11/79 GEOLOGICAL MARKERS DEPTH
Completed drilling 7/13/79
Total depth 505 Plugged depth _____
Junk _____
Commenced producing January 1980 Geologic age at total depth: _____
(Date)

| Date | Static test | | Production Test Data | | | | | | | | |
|-----------|-------------------|-------------|----------------------|----------|-------------|----------|---------|----------------|--------------|-------------|----------|
| | Shut-in well head | | Total Mass Flow Data | | | | | Separator Data | | | |
| | Temp. °F | Pres. Psig. | Lbs/Hr | Temp. °F | Pres. Psig. | Enthalpy | Orifice | Water cuft/Hr | Steam Lbs/Hr | Pres. Psig. | Temp. °F |
| Jan. 1980 | | | 9,000 | 118°F | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

CASING RECORD (Present Hole)

| Size of Hole | Size of Casing | Weight of Csg/ft. | Grade of Casing | New or Used | Seamless or Lapweld | Depth of Shoe | Top of Casing | Number of Sacks Cement | Top of Cement | Cement Top Determined By |
|--------------|----------------|-------------------|-----------------|-------------|---------------------|---------------|---------------|------------------------|---------------|--------------------------|
| | 6" | | | New | Lapweld | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

PERFORATED CASING

(Size, top, bottom, perforated intervals, size and spacing of perforation and method.)

Was analysis of effluent made? Yes Electrical log depths 505 feet Temperature log depths 505 feet

CERTIFICATION

I hereby certify that the information given above and the data and material attached hereto are true and complete to the best of my knowledge and belief.

Signed [Signature] Position Director, Physical Plant Department, NMSU Date 10/9/80



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

GEOHERMAL RESOURCES WELL HISTORY

Operator Physical Plant Department, NMSU Address Box 3-PPD, NMSU, Las Cruces, NM 88003
Lease Name _____ Well No. NMSU-PG-2
Unit Letter _____ Sec. 27 Twp. 235 Rge. 2E
Reservoir NMSU Property County Dona Ana

It is of the greatest importance to have a complete history of the well. Use this form to report a full account of all important operations during the drilling and testing of the well or during re-drilling, altering of casing, plugging, or abandonment with the dates thereof. Be sure to include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, shooting, and initial production data and zone temperature. (Attach additional sheets if necessary.)

Date

7/11/79 Well drilled as a water well by Aqua Drilling Co., Anthony, Texas. Well was drilled by rotary rig, with a hole size 9 7/8", and a 6" casing set to total depth of 507 feet. Well was gravel packed. Formation is unconsolidated sedimentary deposits. Well has a temperature of 118°F, producing from a zone between 451 and 471 feet deep.

1/5/80 A pump was set in the well, and it successfully was flow tested at 18 gpm at 118°F.

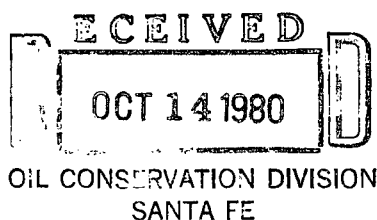
CERTIFICATION

I hereby certify that the information given above and the data and material attached hereto are true and complete to the best of my knowledge and belief.

Signed [Signature] Position 70 Director, Physical Plant Department, NMSU Date 10/9/80

NEW MEXICO ENERGY INSTITUTE

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



PG-2

October 10, 1980

Mr. Carl Ulvog
Senior Geologist
Oil Conservation Division
Energy and Minerals Department
P.O. Box 2088
State Land Office Building
Santa Fe, NM 87501

Dear Mr. Ulvog:

Please find enclosed a Form G-103 to convert a NMSU water well to a low-temperature thermal well. This application is a somewhat belated response to your letter of July 31, 1979, to Dr. Harold Daw. Apparently, your letter was misplaced and I am attempting to handle unfinished old business. Your letter also requested that Forms G-106 and G-107 be submitted which are enclosed.

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

Sincerely yours,

Larry Icerman
Larry Icerman
Director

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Note: I attached a copy of my 5/3/79 letter to this for clarification. Apparently Dr. Daw (or whoever at NMSU) never filed C-101 or C-102 for the low-temp water well. Location given by forms sent with this letter does not agree with any of 3 permitted wells in Sec 27.

CU

SOLAR

GEOTHERMAL

WIND

WASTE CONVERSION



STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR

LARRY KEHOE
SECRETARY

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-2434

July 31, 1979

Dr. Harold A. Daw
New Mexico State University
P. O. Box 3004
Las Cruces, New Mexico 88003

Dear Harold:

With respect to our telephone conversation today, here is what we propose:

I. For Jemez Springs well:

Submit Form G-103 to change status from "Temperature Observation" to "Low-Temperature Thermal" well. Refer to Rule 203-B (9) and Rule 203-C (5) and (7).

Submit Form G-106. Refer to Rule 206-B.
Submit Form G-107. Refer to Rule 207-B.

II. For New Mexico State University "Water Well":

Submit same forms as described above, except that Form G-103 will be for purpose of "convert water supply well" to "Low-Temperature Thermal" well. See Rule 203-B (9) and Rule 203-C (1), (2) and (3). This assumes of course that well is to be temporarily abandoned, ie, not to be put on production immediately.

It will be apparent that the foregoing described methods of getting the wells "legal" and helping us to get our files into some semblance of logical order, are somewhat unorthodox. However, these two cases are the first of their kinds and we are sort of "plowing new ground" so a little improvising may be justified on the basis that we are simplifying reaching our objective. Anyhow, the Jemez Springs deal was such a fiasco to begin with, that there is now no way that the rules could be complied with strictly. Incidentally, it might be wise to consider the operator of the well located in Unit A, Section 26, Township 18 North, Range 2 East to be the "Village of Jemez Springs" rather than "Eddie Armenta." (See copy of last G-103 filed by Kleeman, attached). Also, you could be "Project Manager" as of March 30th.

-2-

Enclosed are the forms referred to above. You will note that the rules specify they be filed in "triplicate." For our purposes one original and two copies suffice.

Should you be confused by the methods outlined above or have questions concerning the data required by the forms do not hesitate to contact us.

Yours truly,

CARL ULVOG
Senior Geologist

CU/og



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

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