

GTLT - _____15_____

**Alex R. Masson, Inc.
10-21S-1W
Dona Ana County**

Well Nos. 16 - 35

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION



August 18, 1987

GARREY CARRUTHERS
GOVERNORPOST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-5800

Alex R. Masson, Inc.
c/o Radium Springs Farms
Box 20
Radium Springs, New Mexico 88054

Attention: Bruce Fitzgerald

Dear Bruce:

Enclosed please find copies of your well files for your operations in Radium Springs. A review of these well files has indicated that this office will require a few more forms as outlined by our rules and regulations. A summary of these forms is as follows:

WELL NO.	STATUS	101	102	103	104	105	106	107	112
15	Injection	X	X	X	X				X
16	Injection	X	X	X	X	X	X	X	X
17	P & A	X	X	X	N/A	X	X		N/A
19	Inj/Producer	X	X	X	X	X	X		X
20	P & A	X	X	X	N/A	X	X		N/A
21	Producer	X	X		X	X	X	X	N/A
22	Producer	X	X		X			X	N/A
23	Drilling	X	X						

The necessary forms to bring this project up-to-date are also enclosed and should you have any questions, please contact me at this office.

Sincerely,

ROY E. JOHNSON,
Sr. Petroleum Geologist

REJ/dr

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form G-101
Adopted 10-1-74
Revised 10-1-78

NO. OF COPIES RECEIVED	
DISTRIBUTION	
File	
N.M.B.M.	
U.S.G.S.	
Operator	
Land Office	

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 ☒ Deepen ☐ Plug Back ☐
b. Type of Well Geothermal Producer ☒ Temp Observation ☐
Low-Temp Thermal ☐ Injection/Disposal ☐
2. Name of Operator Alex R. Masson, Inc.
3. Address of Operator Draw F Linwood, Ks. 66052
4. Location of Well UNIT LETTER B LOCATED 833 FEET FROM THE N LINE
AND 2368 FEET FROM THE E LINE OF SEC. 10 TWP. 21 S RGE. 1 W NMPM

7. Unit Agreement Name
N/A
8. Farm or Lease Name
Bailey
9. Well No.
#16
10. Field and Pool, or Wildcat
Radium Sp. K.G.R.A.

12. County
Dona Ana
19. Proposed Depth
500 ft.
19A. Formation
20. Rotary or C.T.
Air Rotary
21. Elevations (Show whether DF, RT, etc.)
3980 ft.
21A. Kind & Status Plug. Bond
21B. Drilling Contractor
Lar-Jon
22. Approx. Date Work will start
3/86

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP Surface
9 7/8	7 O.D.	17#	80 ft.	20	

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 Bruce A. Fitzgerald Title Operator Date 2/28/86

(This space for State Use)
APPROVED BY David Catant TITLE Petroleum Engineer DATE March 25, 1986
CONDITIONS OF APPROVAL, IF ANY:

GEOTHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer boundary of the section.

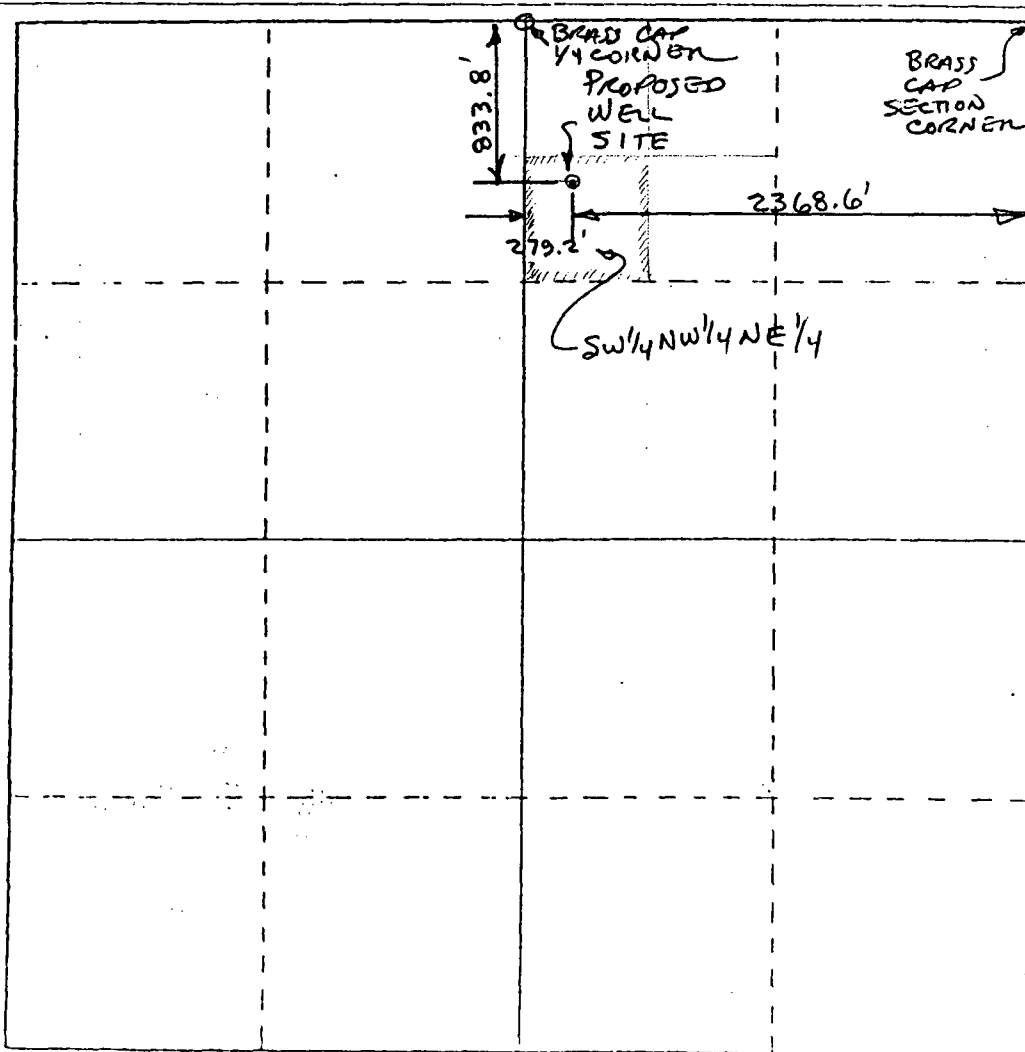
Operator Alex R. Masson, Inc.		Lease		Well No.	
Unit Letter	Section 10	Township T.21S.	Range R.1W.	County Dona Ana	
Actual Footage Location of Well:					
Ground Level Elev. 3990 ±	Producing Formation	Pool Radium Springs	Dedicated Acreage: 10 Acres		

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

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

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

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

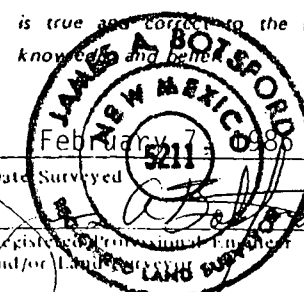


CERTIFICATION

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

Name **BRUCE A. FITZGERALD**
Position **OPERATOR**
Company **ALEX R. MASSON, INC.**
Date **2/14/80**

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.



LS #5211

Certificate No.

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form G-103
Adopted 10-1-74
Revised 10-1-78

NO. OF COPIES RECEIVED		
DISTRIBUTION		
File		
N. M. B. M.		
U. S. G. S.		
Operator		
Land Office		

SUNDRY NOTICES AND REPORTS
ON
GEOTHERMAL RESOURCES WELLS

5. 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"/> Low-Temp Thermal <input checked="" type="checkbox"/>	Temp. Observation <input type="checkbox"/> Injection/Disposal <input type="checkbox"/>	7. Unit Agreement Name N/A
2. Name of Operator Alex R. Masson, Inc.		8. Farm or Lease Name Bailey
3. Address of Operator Drawer F Linwood, KS 66052		9. Well No. # 16
4. Location of Well Unit Letter <u>B</u> <u>2368</u> Feet From The <u>East</u> Line and <u>833</u> Feet From The <u>North</u> Line, Section <u>10</u> Township <u>21 S</u> Range <u>1 W</u> NMPM.		10. Field and Pool, or Wildcat Radium Sprs. K.G.R.A.
15. Elevation (Show whether DF, RT, GR, etc.) 3980 ft.		12. County Dona Ana

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	

SUBSEQUENT REPORT OF:

REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG & ABANDONMENT <input type="checkbox"/>
CASING TEST AND CEMENT JOB <input type="checkbox"/>	
OTHER <input type="checkbox"/>	

* OTHER change classification of 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.

* Change Well Classification - Well # 16 was originally permitted as a geothermal producer. This well was drilled to produce low-temperature thermal water for the purpose of extracting heat for agriculture, therefore, a type well change is requested from Geothermal Producer to a Low Temp Thermal.

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

SIGNED [Signature] TITLE Operator DATE May 5, 86

APPROVED BY [Signature] TITLE District Supervisor DATE 6-4-86

CONDITIONS OF APPROVAL, IF ANY:

OIL CONSERVATION DIVISION

P. O. BOX 2088

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

Form G-104
Adopted 10-1-74
Revised 10-1-78CERTIFICATE OF COMPLIANCE
AND AUTHORIZATION TO PRODUCE
GEOTHERMAL RESOURCES

OWNER OR OPERATOR

Name ALEX R. MASSON INC
Address DRAWER F LINWOOD KANSAS 66052

TYPE OF WELL

Geothermal Producer ☐Low-Temperature Thermal ☐Injection/Disposal ☒

REASON FOR FILING

New Well ☐ Recompletion ☐Change in Ownership ☐ Designation of Purchaser ☐Other (Please Explain) ☐PER MR ROY E. JOHNSON LETTER DATED 11-18-86

DESCRIPTION OF WELL

Lease Name BAILEY Well No. 16 Name of Reservoir RADIUM SPRINGS

Kind of Lease (Fee, Fed. or State) _____ Lease Number _____

LOCATION

Unit Letter B; 833.8 feet from the NORTH line and 2368.6 feet from the EAST line ofSection 10 Township 21 S Range 1 WCounty DONA ANA

TYPE OF PRODUCT

Dry _____ Steam and Water _____ Low Temp. Thermal Water X

DESIGNATION OF PURCHASER OF PRODUCT

Name of Purchaser ALEX R MASSON INCAddress of Purchaser DRAWER F. LINWOOD KANSAS 66052Product Will Be Used For GREENHOUSE HEATING

CERTIFICATE OF COMPLIANCE

I hereby certify that all rules and regulations concerning geothermal resources wells in the State of New Mexico, as promulgated by the Oil Conservation Division of New Mexico, have been complied with, with respect to the subject well, and that the information given above is true and complete to the best of my knowledge and belief.

Signed Bruce A. Fitzgerald Position Operation Mgr. Date 2/22/87Approved Roy Johnson Position DISTRICT SUPERVISOR Date 4/22/87

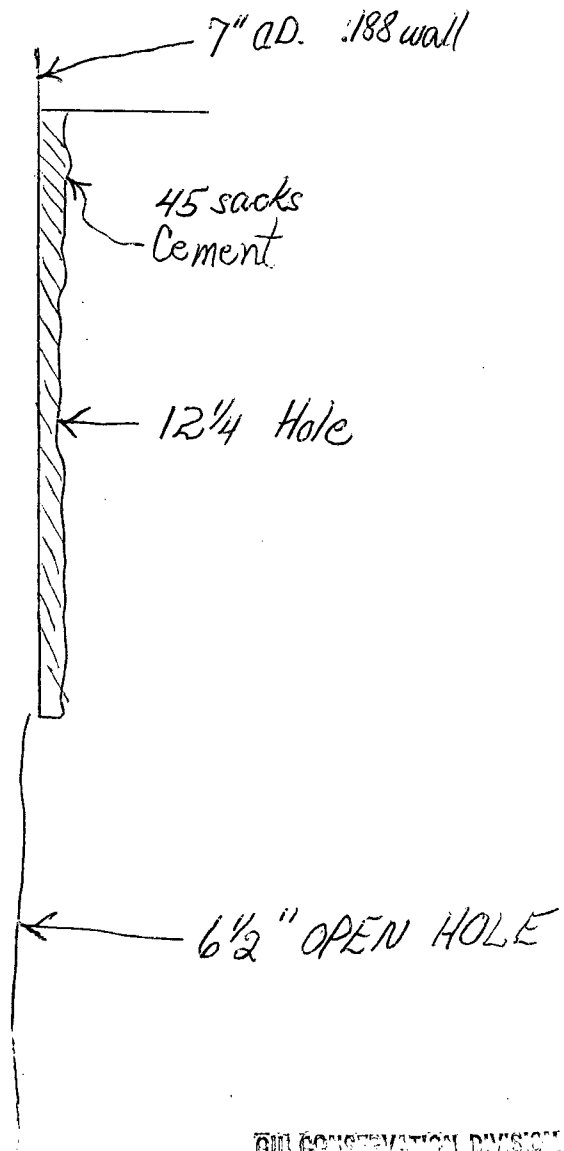
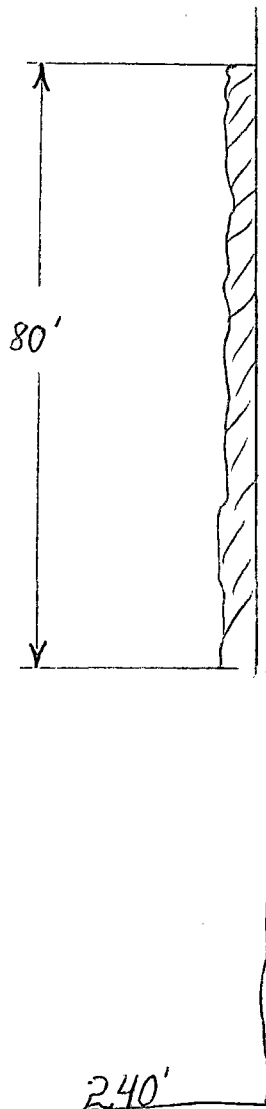


Lar Jon

DRILLING
COMPANY

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

Well #16



GIL CONSERVATION DIVISION

NEW MEXICO OIL CONSERVATION COMMISSION

P. O. Box 2088, Santa Fe 87501

GEOHERMAL RESOURCES WELL LOG

Operator Alex R. Masson, Inc.
 Address Drawer F, Linwood KS 66052
 Reservoir Radium Springs
 Lease Name Bailey Well No. 16 Unit Letter AB-4
 Location: 833.8 feet from the north line and 2368.6 feet from the east line Section 10
 Township 21 S Range 1 W County Dona Ana

FORMATIONS PENETRATED BY WELL

DEPTH TO		Thickness	Drilled or Cored	Recovery	DESCRIPTION
Top of Formation	Bottom of Formation				
0	255' TD	255'			

Attach Additional Sheets if Necessary

This form must be accompanied by copies of electric logs, directional surveys, physical or chemical logs, water analyses, tests, and temperature surveys (See Rule 205).

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 James T. Gross Position Project Hydrogeologist Date June 5, 1986

Lith Logs - R.S.

#16

0-255'

Light pink to pinkish-gray rhyolite porphyry, containing altered feldspar phenocrysts 0.25-0.50 mm, minor biotite phenocrysts. Minor oxidation at 190-240', mostly as coatings on chips. Drill cuttings are hard and angular, and somewhat larger towards lower half of hole. Upper 70' is partially weathered, but still recognizable as same rock.

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

GEOTHERMAL RESOURCES WELL SUMMARY REPORT

Operator Alex R. Masson, Inc. Address Drawer F, Linwood KS 66052
Lease Name Bailey Well No. 16
Unit Letter B Sec. 10 Twp. 21S Rge 1W
Reservoir Radium Springs County Dona Ana

Commenced drilling April 9, 1986 GEOLOGICAL MARKERS DEPTH
Completed drilling April 11, 1986 Bell Top Formation 0 - 255'
Total depth 255' Plugged depth 240'
Junk none
Commenced producing _____ Geologic age at total depth: Oligocene
(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	

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
9 7/8"	7" OD	17 lbs.		New	Seamless	80'	+ 1. feet	18	0 GR	visually
6 1/2"	open	hole completion								

PERFORATED CASING

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

Was analysis of effluent made? none Electrical log depths none Temperature log depths 140 feet

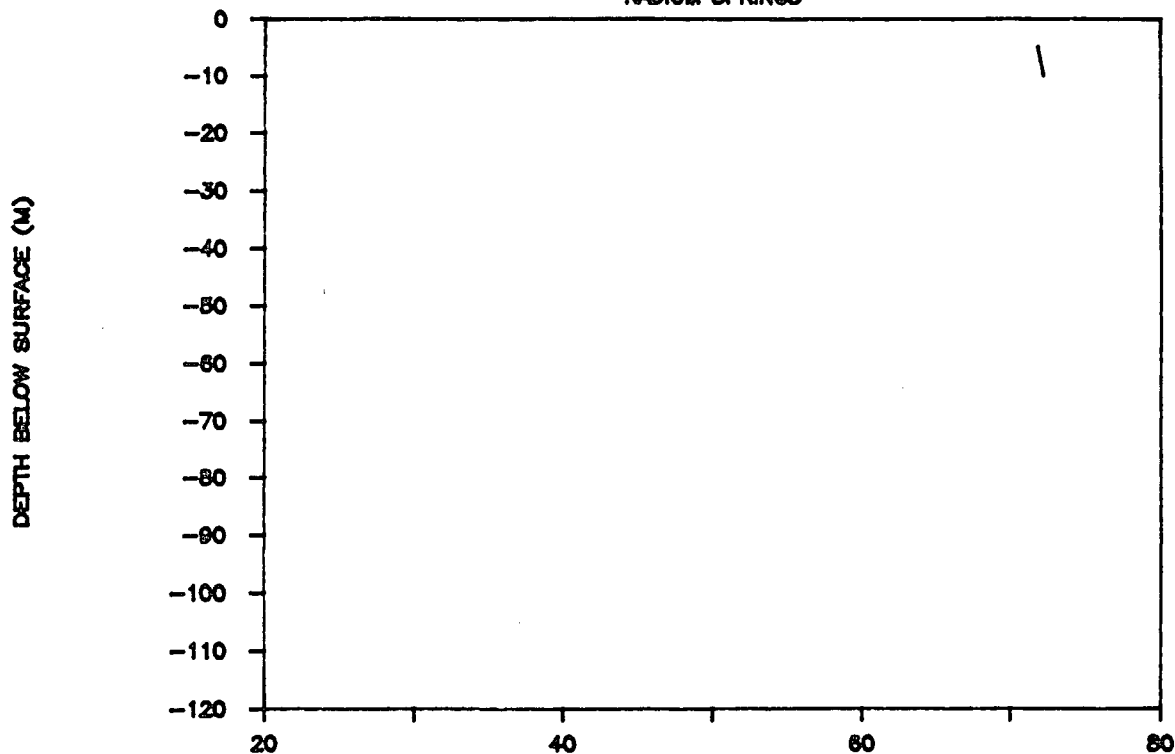
CERTIFICATION

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 James T. Gross Position Project Hydrogeologist Date June 6, 1986

BAILEY GEOTHERMAL WELL #15

RADIUM SPRINGS



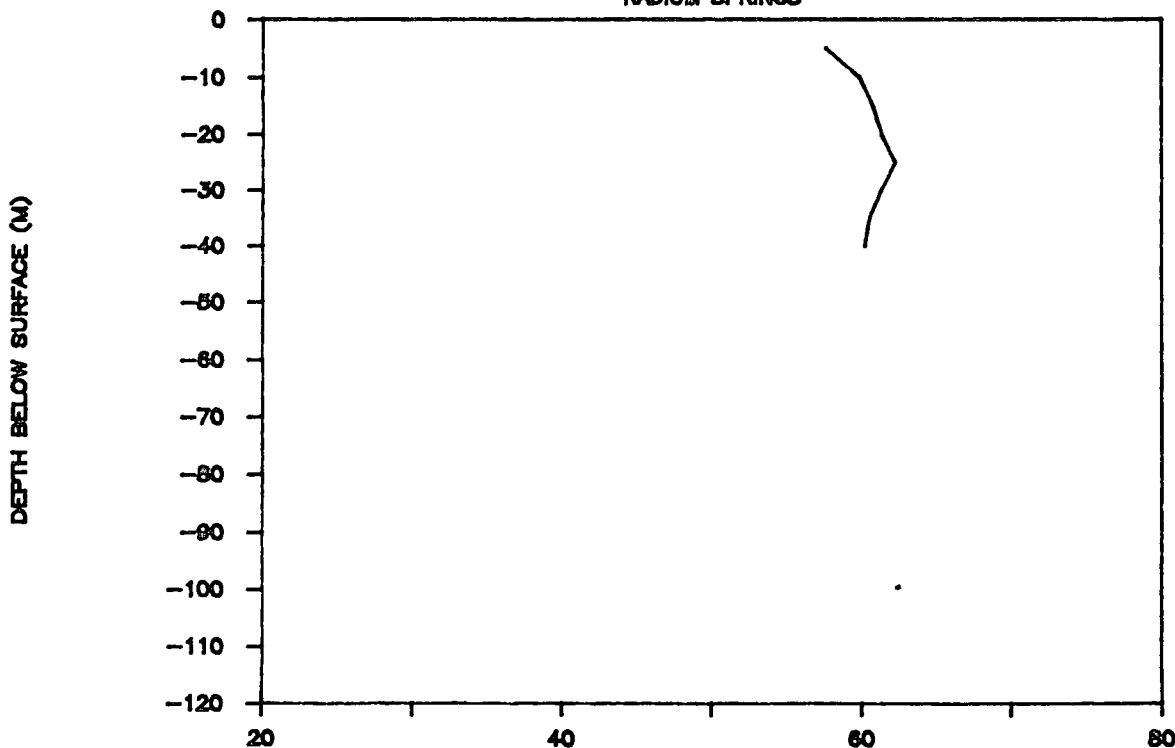
+ BHT (C): 72.2

◇ TD (M): 50

△ EST. GPM: 300

MASSON GEOTHERMAL WELL #16 ✓

RADIUM SPRINGS



+ BHT (C): 60.5

◇ TD (M): 73

△ EST. GPM: 150

APPLICATION TO PLACE WELL ON INJECTION-GEOTHERMAL RESOURCES AREA

Operator ALEX R. MASON, INC.		Address DRAWER F, LINWOOD, KS. 66052	
Lease Name	Well No. 16	Field RADIUM SPRINGS	County DONA ANA
Location Unit Letter B ; Well Is Located 2368 Feet From The E Line And 833 Feet From The N Line, Section 10 Township 21 S Range 1 W NMPM.			

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
Conductor Pipe					
Surface Casing	7"	80'	45	SURF.	CIRCULATION
Long String	N/A				
Tubing	N/A		Name, Model and Depth of Tubing Packer		

Name of Proposed Injection Formation TALM PARK FORMATION		Top of Formation 0	Bottom of Formation 240'
Is Injection Through Tubing, Casing, or Annulus? CASING	Perforations or Open Hole? OPEN HOLE	Proposed Interval(s) of Injection 80' - 240'	
Is This a New Well Drilled For Injection? YES	If Answer is No, For What Purpose Was Well Originally Drilled?	Has Well Ever Been Perforated in Any Zone Other Than the Proposed Injection Zone? NO	

List All Such Perforated Intervals and Sacks of Cement used to Seal Off or Squeeze Each

Depth of Bottom of Deepest Fresh Water Zone in This Area

Is This Injection for Purpose of Pressure Maintenance or Water Disposal? (See Rules 501 and 502)

WATER DISPOSAL

Anticipated Daily Injection Volume	Minimum 100 GPM	Maximum 200 GPM	Open or Closed Type System CLOSED	Is Injection to be by Gravity or Pressure? GRAVITY	Approx. Pressure (psi) N/A
Answer Yes or No Whether the Following Waters are Mineralized to such a Degree as to be Unfit for Domestic, Stock, Irrigation, or Other General Use— NO			Water to be Injected MODERATE MINERALIZATION	Natural Water in Injection Zone SAME	Are Water Analyses Attached? YES

Name and Address of Surface Owner (or Lessee, if State or Federal Land)

ALEX R. MASON, INC. DRAWER F, LINWOOD, KS. 66052

List Names and Addresses of all Operators Within One-Half (1/2) Mile of This Injection Well

HUNT ENERGY CORPORATION

THOMAS F. RYAN

HARRY N. BAILEY

WM. H. DALY

OIL CONSERVATION DIVISION

SEP 21 1986

RECEIVED

Have Copies of this Application Been Sent to Each Operator Within One-Half Mile of this Well?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Plat of Area	Electrical Log	Diagrammatic Sketch of Well
Are the Following Items Attached to this Application (see Rule 503)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

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

Bruce A. Fitzgerald
(Signature)

Designated Agent
(Title)

9/22/86
(Date)

NOTE: Should waivers from all operators within one-half mile of the proposed injection well not accompany this application, the New Mexico Oil Conservation Division will hold the application for a period of 20 days from the date of receipt by the Division's Santa Fe office. If at the end of the 20-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 503.

NO. OF COPIES RECEIVED		
DISTRIBUTION		
File		
N.M.B.M.		
U.S.G.S.		
Operator		
Land Office		

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 ☒ Deepen ☐ Plug Back ☐
b. Type of Well Geothermal Producer ☒ Temp Observation ☐
Low-Temp Thermal ☐ Injection/Disposal ☐

7. Unit Agreement Name
N/A
8. Farm or Lease Name
Bailey

2. Name of Operator
Alex R. Masson, Inc.

9. Well No.
#16

3. Address of Operator
Draw F Linwood, Ks. 66052

10. Field and Pool, or Wildcat
Radium Sp. K.G.R.A.

4. Location of Well UNIT LETTER B LOCATED 833 FEET FROM THE N LINE
AND 2368 FEET FROM THE E LINE OF SEC. 10 TWP. 21 S RGE. 1 W NMPM

12. County
Dona Ana

19. Proposed Depth 500 ft.	19A. Formation	20. Rotary or C.T. Air Rotary
21. Elevations (Show whether DF, RT, etc.) 3980 ft.	21A. Kind & Status Plug, Bond	21B. Drilling Contractor Lar-Jon
		22. Approx. Date Work will start 3/86

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP Surface
9 7/8	7 O.D.	17#	80 ft.	20	

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.

By Bruce A. Fitzgerald Title Operator Date 2/28/86

(This space for State Use)

APPROVED BY David Citanni TITLE Petroleum Engineer DATE March 25, 1986

CONDITIONS OF APPROVAL, IF ANY:

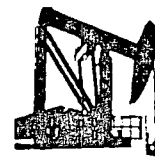


TONEY ANAYA
GOVERNOR

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

March 28, 1986

50 YEARS



1935 - 1985

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-5800

Alex R. Masson, Inc.
Drawer F
Linwood, Kansas 66052

Re: \$10,000 Multiple-Well Geothermal Observation
Well Bond; Alex R. Masson, Inc., Principal
American Manufacturers Mutual Insurance, Surety
Bond No. 585244

Gentlemen:

The Oil Conservation Division hereby approves the above-captioned Geothermal Bond effective March 25, 1986.

Sincerely,

R. L. STAMETS,
Director

dr/

cc: Oil Conservation Division - Santa Fe

Jim Davis ?

523-7367

Alex. R.



FINE POT PLANTS

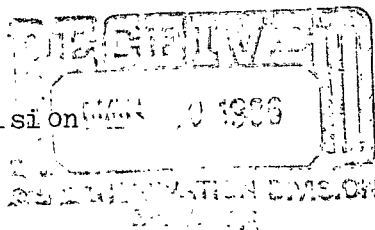
Exclusively Wholesale

913/ 723-3222

Drawer F Linwood, Kansas 66052

2/14/86

New Mexico Oil Conservation Division
P.O. Box 2088
Land Office Building
Santa Fe, N.M. 87501



ATTN: Mr. Roy Johnson
Senior Petroleum Geologist

Dear Mr. Johnson,

Please find enclosed application forms #G-101 and #G-102, and the necessary well bond information required to drill exploratory well # 16.

The drilling of well #16 would take place during March, 1986, upon satisfactory approval from your office.

If any further information is required, feel free to contact me at 505/523-7367, or Mr. Alexander Masson at 913/723-3222 in Linwood, Kansas.

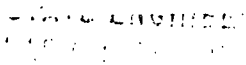
Sincerely Yours,

Bruce A. Fitzgerald

Bruce A. Fitzgerald

530 South Melendres
Las Cruces
78005

Masson's S.W.



EXPLORE

Date Received February 24, 1996 File No. 186-5006

- [illegible]

- I, Bruce Fitzgerald, affirm that the foregoing statements are true to the best of my knowledge and belief and that development shall not commence until approval of the permit has been obtained.



By: Deborah Nolan

Subscribed and filed

Secretary of State
My commission expires

Commission Expires

249

day of

February

A.D. 19 36

DeLores Nolan

Notary Public

ACTION OF STATE ENGINEER

After notice pursuant to statute and by authority vested in me, this application is approved provided it is not exercised to the detriment of any others having existing rights; further provided that all rules and regulations of the State Engineer pertaining to the drilling of _____ wells be complied with; and further subject to the following conditions:

1. The well shall be drilled by a drilling contractor licensed by the State Engineer of New Mexico.
2. Well log shall be filed with the State Engineer Office within ten (10) days of completion of drilling; pump-test data shall be filed within ten (10) days of completion of testing.
3. Water diverted under this permit shall be only used for purposes of testing the well for availability of water which shall not exceed ten (10) cumulative days.
4. The well shall be sealed with a welded cap at the end of the test period and shall be permanently plugged if use is not authorized by permit from the State Engineer prior to March 31, 1987.

Well Record
~~Proof of completion of well~~ shall be filed on or before March 31, 19 87

Proof of application of water to beneficial use shall be filed on or before _____, 19 _____

Witness my hand and seal this 3rd day of March, A.D., 19 86.

S. E. Reynolds, State Engineer

By: J. B. Nixon Engineer
 District III

INSTRUCTIONS

This form shall be executed, preferably typewritten, in triplicate and shall be accompanied by a filing fee of \$5.00. Each of triplicate copies must be properly signed and attested.

A separate application for permit must be filed for each well used.

Secs. 1-4—Fill out all blanks fully and accurately.

Sec. 5—Irrigation use shall be stated in acre feet of water per acre per annum to be applied on the land. If for municipal or other purposes, state total quantity in acre feet to be used annually.

Sec. 6—Describe only the lands to be irrigated or where water will be used. If on unsurveyed lands describe by legal subdivision "as projected" from the nearest government survey corners, or describe by metes and bounds and tie survey to some permanent, easily located natural object.

Sec. 7—If lands are irrigated from any other source, explain in this section. Give any other data necessary to fully describe water right sought.



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

SUNDRY NOTICES AND REPORTS
ON
GEOTHERMAL RESOURCES WELLS

NO. OF COPIES RECEIVED	
DISTRIBUTION	
File	
N. M. B. M.	
U. S. G. S.	
Operator	
Land Office	

5. Indicate Type of Lease State <input type="checkbox"/> Fee <input checked="" type="checkbox"/>
5.1 State Lease No.
7. Unit Agreement Name N/A
8. Farm or Lease Name Bailey
9. Well No. 17
10. Field and Pool, or Wildcat Radium Springs
12. County Dona Ana

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"/> Low-Temp Thermal <input checked="" type="checkbox"/>	Temp. Observation <input type="checkbox"/> Injection/Disposal <input type="checkbox"/>
2. Name of Operator Alex. R. Masson, Inc.	
3. Address of Operator Drawer F, Linwood KS 66052	
4. Location of Well Unit Letter C 225.8 Feet From The north Line and 3,036.1 Feet From The east Line, Section 10 Township 21S Range 1W NMPM.	

15. Elevation (Show whether DF, RT, GR, etc.)
3995 GR

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>

SUBSEQUENT REPORT OF:

REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG & ABANDONMENT <input checked="" type="checkbox"/>
CASING TEST AND CEMENT JOB <input type="checkbox"/>	OTHER <input type="checkbox"/>

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.

Plugged and abandoned:

20-360 feet - cuttings

0-20 feet - neat cement slurry

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

SIGNED James T. Brown TITLE Project Hydrogeologist DATE June 6, 1986

APPROVED BY Ry Johnson TITLE DISTRICT SUPERVISOR DATE 11-21-94

CONDITIONS OF APPROVAL IF ANY:

NO. OF COPIES RECEIVED	
DISTRIBUTION	
File	
N. M. B. M.	
U. S. G. S.	
Operator	
Land Office	

NEW MEXICO OIL CONSERVATION COMMISSION
P. O. Box 2088, Santa Fe 87501SUNDRY NOTICES AND REPORTS
ON
GEOTHERMAL RESOURCES WELLS

5. 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

N/A

2. Name of Operator

Alex. R. Masson, Inc.

8. Farm or Lease Name

Bailey

3. Address of Operator

Drawer F, Linwood KS 66052

9. Well No.

17

4. Location of Well

Unit Letter C C 225.8 Feet From The north Line and 3,036.1 Feet From

The east Line, Section 10 Township 21S Range 1W NMPM.

10. Field and Pool, or Wildcat

Radium Springs

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

3995 GR

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 ☐

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.

Plugged and abandoned:

20-360 feet - cuttings

0-20 feet - neat cement slurry

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

SIGNED James T. Brown TITLE Project Hydrogeologist DATE June 6, 1986

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

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

GEOTHERMAL RESOURCES WELL SUMMARY REPORT

Operator Alex R. Masson, Inc. Address Drawer F, Linwood KS 66052
Lease Name Bailey Well No. 17
Unit Letter C Sec. 17 Twp. 21 S Rge 1 W
Reservoir Radium Springs County Dona Ana

Commenced drilling April 22, 1986
Completed drilling April 23, 1986
Total depth 360' Plugged depth 0' (0)
Junk none
Well

GEOLOGICAL MARKERS

DEPTH

Palm Park Formation20 - 360'

Commenced producing _____
(Date)

Geologic age at total depth: Eocene

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	

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
9 7/8"	7" OD	17 lbs.		New	Seamless	40'	-2'	9	0 GR	visually

PERFORATED CASING

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

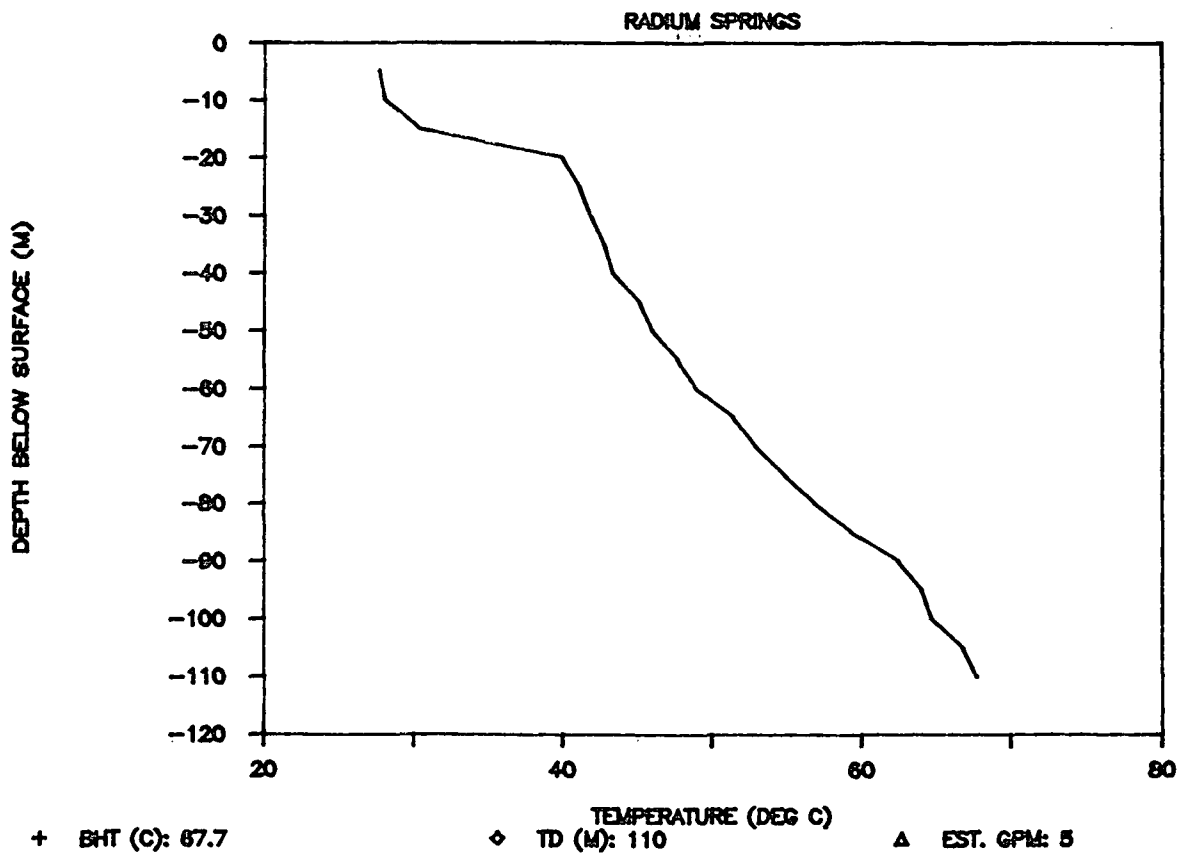
Was analysis of effluent made? none Electrical log depths none Temperature log depths 360 feet

CERTIFICATION

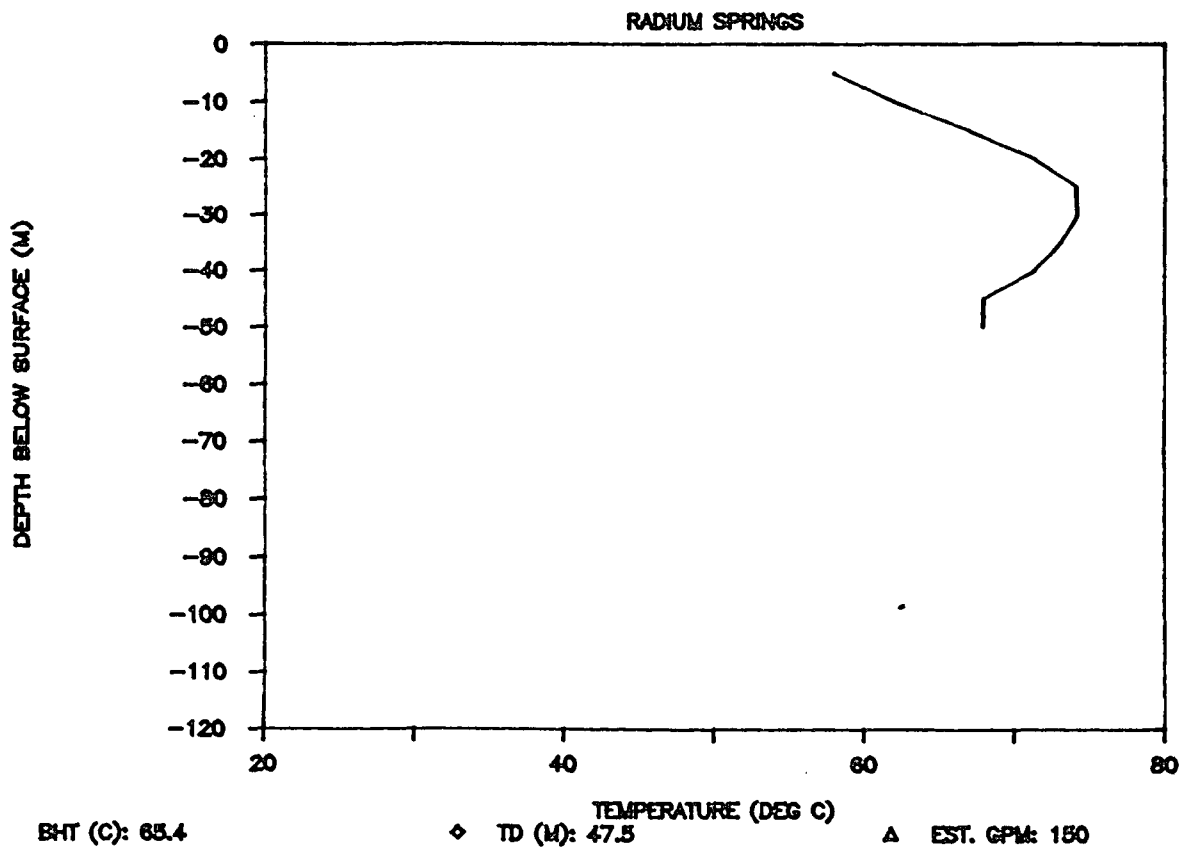
I hereby certify that the information given above and the data and material attached hereto are true and complete to the best of my knowledge and belief.

Signed James R. Gross Position Project Hydrogeologist Date June 6, 1986

MASSON GEOTHERMAL WELL #17 ✓



MASSON GEOTHERMAL WELL #19



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

GEOHERMAL RESOURCES WELL LOG

Operator Alex R. Masson, Inc.
Address Drawer F, Linwood KS 66052
Reservoir Radium Springs
Lease Name Bailey Well No. 17 Unit Letter C
Location: 225.8 feet from the north line and 3036.1 feet from the east line Section 10
Township 21 S Range 1 W County Dona Ana

FORMATIONS PENETRATED BY WELL

DEPTH TO		Thickness	Drilled or Cored	Recovery	DESCRIPTION
Top of Formation	Bottom of Formation				
0	20'	20			
20	40'	20			
40	360' TD	320'			

Attach Additional Sheets if Necessary

This form must be accompanied by copies of electric logs, directional surveys, physical or chemical logs, water analyses, tests, and temperature surveys (See Rule 205).

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 James T. Gross Position Project Hydrogeologist Date June 5, 1986

#17

0-20' Mostly coarse sand to medium pebbles of volcanic material. Pebbles are a mixture of subangular to subrounded clasts, probably of both local origin and upstream sources

20-40' Mixed volcanic debris, mostly reddish-brown aphanitic material that is partially weathered. Small amount (~10%) of white to greenish-white tuffaceous material

40'-360' Reddish-brown and greenish-gray volcanic mudflows, probably of the Palm Park Formation. Samples from 40 to 140' appear to be from a soft formation, either poorly consolidated or heavily weathered. Clay appears to comprise about 30%, with varying amounts of silt and fine to coarse-grained sand. Samples from 140' to 360' are somewhat less weathered. Permeability of the entire interval from 40 to 240' must be very low.

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form G-103
Adopted 10-1-74
Revised 10-1-78

NO. OF COPIES RECEIVED	
DISTRIBUTION	
File	
N. M. B. M.	
U. S. G. S.	
Operator	
Land Office	

SUNDRY NOTICES AND REPORTS
ON
GEOTHERMAL RESOURCES WELLS

5. Indicate Type of Lease
State <input type="checkbox"/> Fee <input checked="" type="checkbox"/>
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"/> Low-Temp Thermal <input checked="" type="checkbox"/>	Temp. Observation <input type="checkbox"/> Injection/Disposal <input type="checkbox"/>	7. Unit Agreement Name N/A
2. Name of Operator Alex R. Masson, Inc.		8. Farm or Lease Name Bailey
3. Address of Operator Drawer F Linwood, KS 66052		9. Well No. # 17
4. Location of Well Unit Letter <u>C</u> <u>225.8</u> Feet From The <u>North</u> Line and <u>3036.1</u> Feet From The <u>East</u> Line, Section <u>10</u> Township <u>21 S</u> Range <u>1 W</u> NMPM.		10. Field and Pool, or Wildcat Radium Sprs. K.G.R.A.
15. Elevation (Show whether DF, RT, GR, etc.) 3995 ft.		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 change classification of well ☒

OTHER ☐

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

* Change Well Classification - Well # 17 was originally permitted as a geothermal producer. This well was drilled to produce low-temperature thermal water for the purpose of extracting heat for agriculture, therefore, a type well change is requested from Geothermal Producer to a Low Temp Thermal.

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

SIGNED Alex R. Masson TITLE Operator DATE May 5, 86

APPROVED BY Ray E. Johnson TITLE District Supervisor DATE 6-4-86

CONDITIONS OF APPROVAL, IF ANY:

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form G-101
Adopted 10-1-74
Revised 10-1-78

NO. OF COPIES RECEIVED	
DISTRIBUTION	
File	
N.M.B.M.	
U.S.G.S.	
Operator	
Land Office	

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 ☒ Deepen ☐ Plug Back ☐
b. Type of Well Geothermal Producer ☒ Temp Observation ☐
Low-Temp Thermal ☐ Injection/Disposal ☐

7. Unit Agreement Name
N/A

8. Farm or Lease Name
Bailey

2. Name of Operator
Alex R. Masson, Inc.

9. Well No.
17

3. Address of Operator
Drawer F Linwood KS 66052

10. Field and Pool, or Wildcat
Radium Sprs KGRA

4. Location of Well UNIT LETTER C LOCATED 225.8 FEET FROM THE N LINE
AND 3036.1 FEET FROM THE E LINE OF SEC. 10 TWP. 21S RGE. 1W NMPM

12. County
Dona Ana

21. Elevations (Show whether DF, RT, etc.) 3995	21A. Kind & Status Plug. Bond	21B. Drilling Contractor LAR-JON Drilling	22. Approx. Date Work will start 4/86
--	-------------------------------	--	--

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE 9 7/8	SIZE OF CASING 7 O.D.	WEIGHT PER FOOT 17#	SETTING DEPTH 80 ft	SACKS OF CEMENT 20	EST. TOP surface
-----------------------	--------------------------	------------------------	------------------------	-----------------------	---------------------

* a minimum of 20' surf. cs9 or as much as necessary to
ensure cs9 shoe penetrates @ least 2 Feet of Rhyolite

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 Bruce A. Fitzgerald Title OPERATOR Date 4/16/86

(This space for State Use)

APPROVED BY [Signature] TITLE District Supervisor DATE 4-17-86

CONDITIONS OF APPROVAL, IF ANY:

SURVEYOR.

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

Ground Level Elev. 3995±	Producing Formation	Pool	Dedicated Acreage: Acre
-----------------------------	---------------------	------	----------------------------

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

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

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

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

[illegible]

CERTIFICATION

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

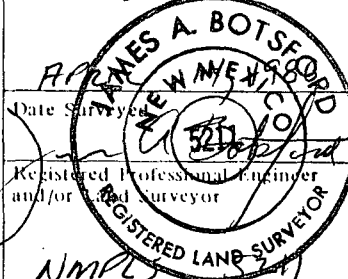
Name BRUCE A. FITZGERALD

Position OPERATOR

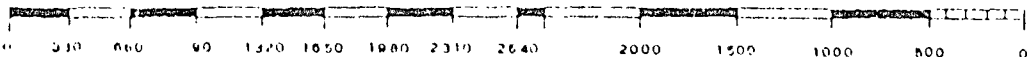
Company ALEX R. MASSON, INC.

Date 4/16/86

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.



Certificate No.



APPLICATION TO PLACE WELL ON INJECTION-GEOTHERMAL RESOURCES AREA

Operator ALEX R. MASON, INC.		Address DRAWER F, LINWOOD, KS. 66052	
Lease Name BAILEY	Well No. 19	Field RADIUM SPRINGS	County DONA ANA
Location Unit Letter B ; Well is Located 800.9 Feet From The N Line And 1682.5 Feet From The E Line, Section 10 Township 21 S Range 1 W NMPM.			

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
Conductor Pipe					
Surface Casing	7"	40'	23	SURF.	CIRCULATION
Long String	N/A				
Tubing	N/A		Name, Model and Depth of Tubing Packer		

Name of Proposed Injection Formation DALM PARK FORMATION		Top of Formation 25'	Bottom of Formation 360'
Is Injection Through Tubing, Casing, or Annulus? CASING		Perforations or Open Hole? OPEN HOLE	Proposed Interval(s) of Injection 40'-360'
Is This a New Well Drilled For Injection? YES	If Answer is No, For What Purpose was Well Originally Drilled?		Has Well Ever Been Perforated in Any Zone Other Than the Proposed Injection Zone? NO

List All Such Perforated Intervals and Sacks of Cement used to Seal Off or Squeeze Each

Depth of Bottom of Deepest Fresh Water Zone in This Area		Is This Injection for Purpose of Pressure Maintenance or Water Disposal? (See Rules 501 and 502) WATER DISPOSAL			
Anticipated Daily Injection Volume	Minimum 100 GPM	Maximum 200 GPM	Open or Closed Type System CLOSED	Is Injection to be by Gravity or Pressure? GRAVITY	Approx. Pressure (psi) N/A
Answer Yes or No Whether the Following Waters are Mineralized to such a Degree as to be Unfit for Domestic, Stock, Irrigation, or Other General Use— NO			Water to be Injected MODERATE MINERALIZATION	Natural Water in Injection Zone SAME	Are Water Analyses Attached? YES

Name and Address of Surface Owner (or Lessee, if State or Federal Land)

ALEX R. MASON, INC. DRAWER F, LINWOOD, KS. 66052

List Names and Addresses of all Operators Within One-Half (1/2) Mile of This Injection Well

HUNT ENERGY CORPORATION

THOMAS F RYAN

OIL CONSERVATION DIVISION

HARRY N. BAILEY

2 1986

WM. H. DALY

RECEIVED

Have Copies of this Application Been Sent to Each Operator Within One-Half Mile of this Well?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Are the Following Items Attached to this Application (see Rule 503)	Plat of Area Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Electrical Log Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Diagrammatic Sketch of Well Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
---	---	---	---	---	--

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

Bruce A. Fitzgerald
(Signature)

Designated Agent
(Title)

9/22/86
(Date)

NOTE: Should waivers from all operators within one-half mile of the proposed injection well not accompany this application, the New Mexico Oil Conservation Division will hold the application for a period of 20 days from the date of receipt by the Division's Santa Fe office. If at the end of the 20-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 503.

OIL CONSERVATION DIVISION

P. O. BOX 2088

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

Form G-104
Adopted 10-1-74
Revised 10-1-78CERTIFICATE OF COMPLIANCE
AND AUTHORIZATION TO PRODUCE
GEOTHERMAL RESOURCES

OWNER OR OPERATOR

Name ALEX R. MASSON INC.
Address DRAWER F LINWOOD KANSAS 66052

TYPE OF WELL

Geothermal Producer ☐Low-Temperature Thermal ☐Injection/Disposal ☒

REASON FOR FILING

New Well ☐Recompletion ☐Change in Ownership ☐Designation of Purchaser ☐Other (Please Explain) ☐PER MR ROY JOHNSON LETTER DATED 11-18-86

DESCRIPTION OF WELL

Lease Name BAILEY Well No. 19 Name of Reservoir RADIUM SPRINGS

Kind of Lease (Fee, Fed. or State) _____ Lease Number _____

LOCATION

Unit Letter B; 800.9 feet from the NORTH line and
1682.5 feet from the EAST line ofSection 10 Township 21 S Range 1 WCounty DONA BANA

TYPE OF PRODUCT

Dry _____ Steam and Water _____ Low Temp. Thermal Water: ☒

DESIGNATION OF PURCHASER OF PRODUCT

Name of Purchaser ALEX R. MASSON INCAddress of Purchaser DRAWER F. LINWOOD KANSAS 66052Product Will Be Used For GREEN HOUSE HEATING

CERTIFICATE OF COMPLIANCE

I hereby certify that all rules and regulations concerning geothermal resources wells in the State of New Mexico, as promulgated by the Oil Conservation Division of New Mexico, have been complied with, with respect to the subject well, and that the information given above is true and complete to the best of my knowledge and belief.

Signed: Bruce A. Fitzgerald Position Operation Mgr. Date 2/22/87
Approved: Roy Johnson Position DISTRICT SUPERVISOR Date 2-22-87

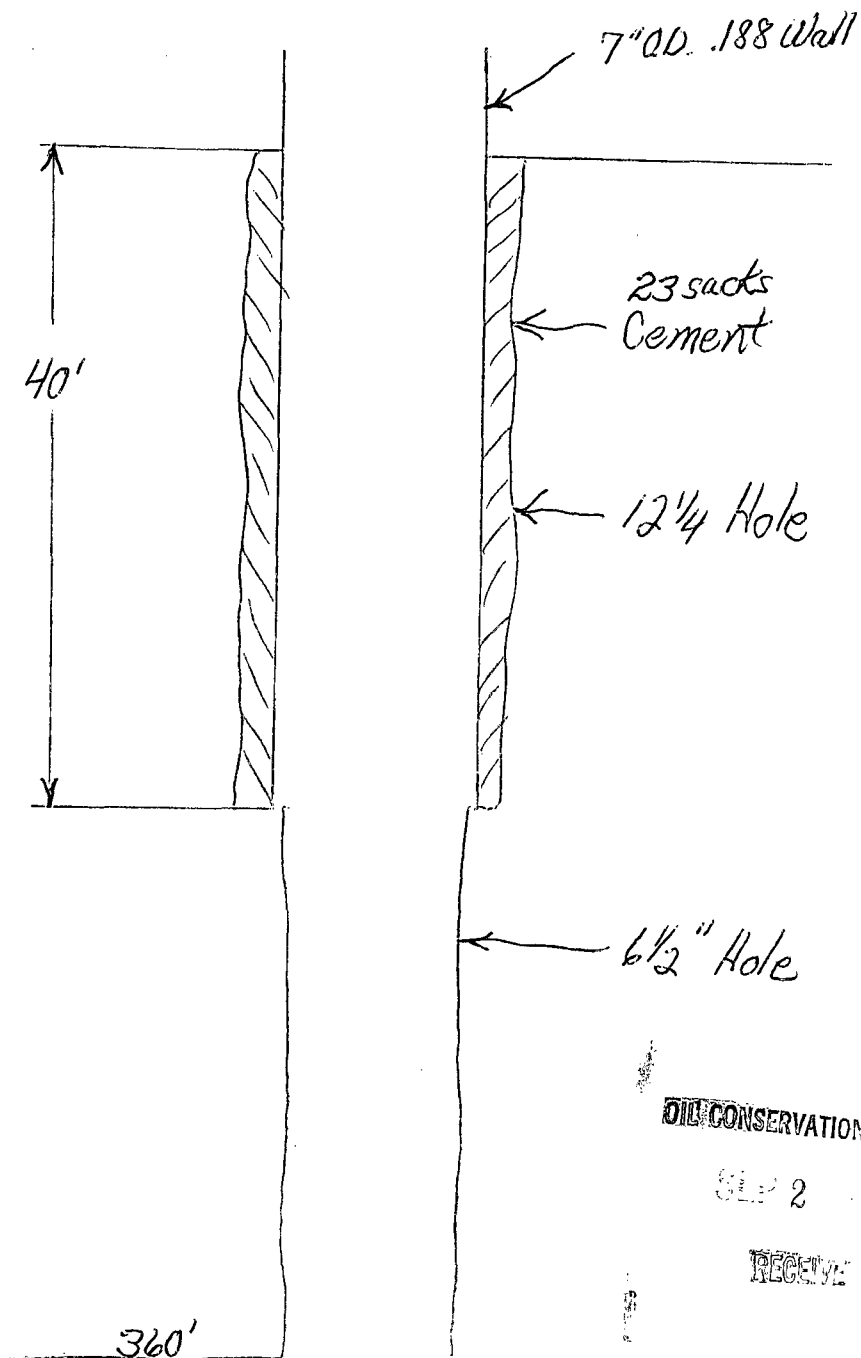


Lar Jon

DRILLING
COMPANY

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

Well #19



*WATER WELLS

*TEST HOLES

*PUMPS

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

GEOTHERMAL RESOURCES WELL SUMMARY REPORT

Operator Alex R. Messon, Inc. Address Drawer F, Linwood KS 66052
Lease Name Bailey Well No. 19
Unit Letter B Sec. 10 Twp. 21S Rge 1W
Reservoir Radium Springs County Dona Ana

Commenced drilling April 15, 1986
Completed drilling April 16, 1986
Total depth 160' Plugged depth 155'
Junk none

GEOLOGICAL MARKERS

DEPTH

Bell Top Formation 0-160'

Commenced producing _____
(Date)

Geologic age at total depth: Oligocene

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	

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
9 7/8"	7" OD	17 lbs.		New	Seamless	40'	+ 1 feet	9	0 GR	visually

PERFORATED CASING

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

Was analysis of effluent made? none Electrical log depths none Temperature log depths 160 feet

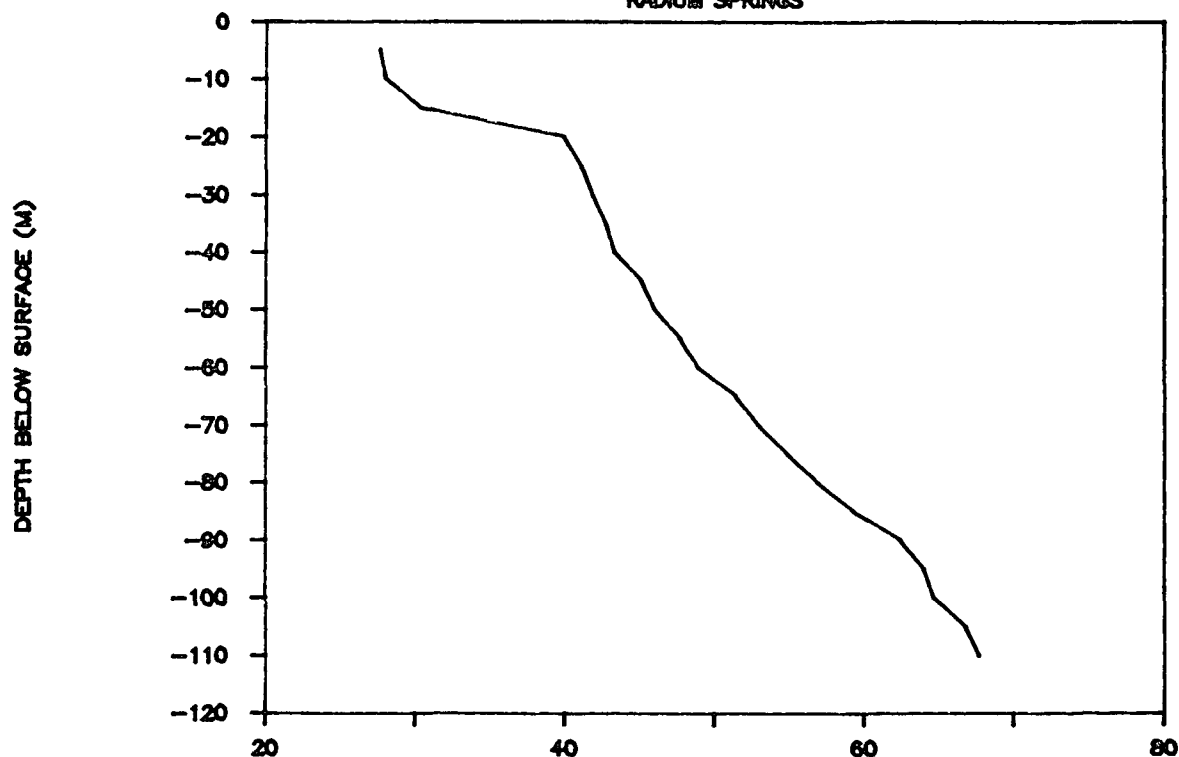
CERTIFICATION

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 James T. Gross Position Project Hydrogeologist Date June 6, 1986

MASSON GEOTHERMAL WELL #17

RADIUM SPRINGS



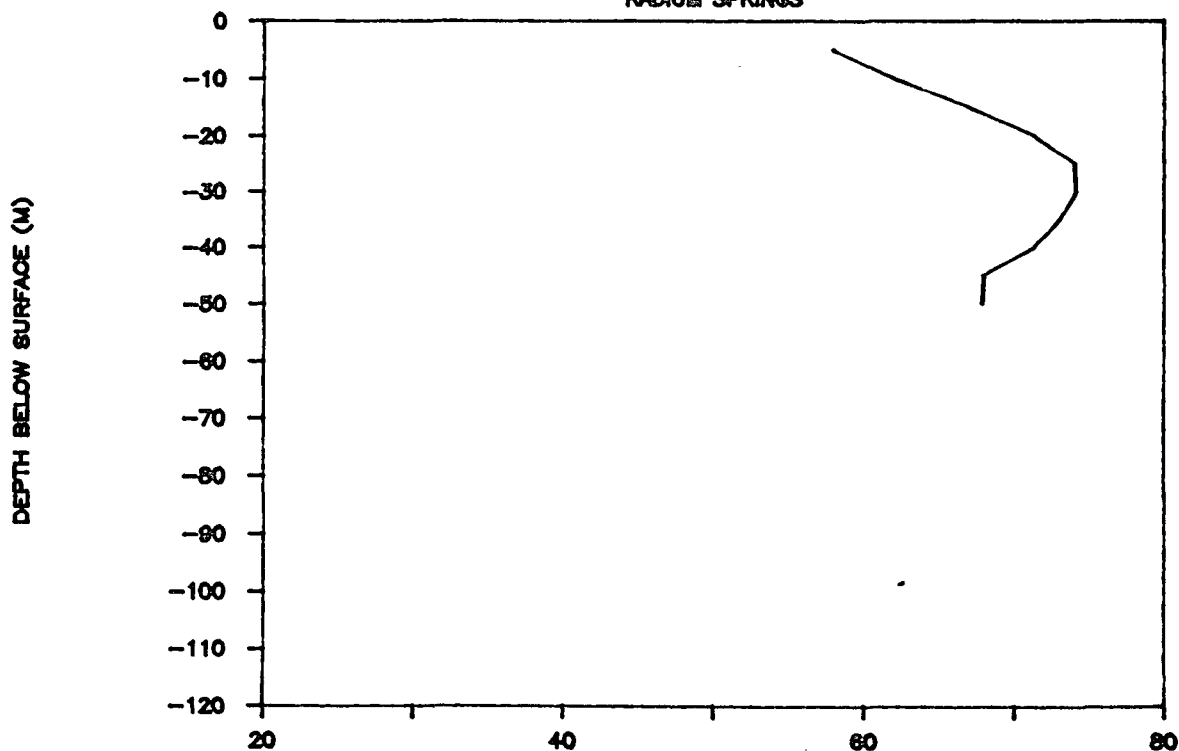
+ BHT (C): 67.7

◇ TD (M): 110

△ EST. GPM: 5

MASSON GEOTHERMAL WELL #19 ✓

RADIUM SPRINGS



BHT (C): 65.4

◇ TD (M): 47.5

△ EST. GPM: 150

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

GEOHERMAL RESOURCES WELL LOG

Operator Alex R. Masson, Inc
Address Drawer F, Linwood KS 66052
Reservoir Radium Springs
Lease Name Bailey Well No. 19 Unit Letter B
Location: 800.9 feet from the north line and 1682.5 feet from the east line Section 10
Township 21 S Range 1 W County Dona Ana

FORMATIONS PENETRATED BY WELL

DEPTH TO		Thickness	Drilled or Cored	Recovery	DESCRIPTION
Top of Formation	Bottom of Formation				
0	180' TD				

Attach Additional Sheets if Necessary

This form must be accompanied by copies of electric logs, directional surveys, physical or chemical logs, water analyses, tests, and temperature surveys (See Rule 205).

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 James P. Gross Position Project Hydrogeologist Date June 5, 1986

19

0-160'

Grayish-pink to reddish-brown rhyolite porphyry, partially weathered @ 0-30', and less so @ 30 to 160'. Drill chips from lower half of hole are angular and exhibit fresh, unaltered phenocrysts of biotite and hornblende

0-30' may be a different lith type. Softer, and contains abundant feldspar phenos. Darker reddish-brown color. May be PP and flaws

30-160' is nearly aphanitic, except for ^{minor} biotite & hornblende. traces of weathering @ 140-160'

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form G-103
Adopted 10-1-74
Revised 10-1-78

NO. OF COPIES RECEIVED	
DISTRIBUTION	
File	
N. M. B. M.	
U. S. G. S.	
Operator	
Land Office	

SUNDRY NOTICES AND REPORTS
ON
GEOTHERMAL RESOURCES WELLS

5. 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"/> Low-Temp Thermal <input checked="" type="checkbox"/>	Temp. Observation <input type="checkbox"/> Injection/Disposal <input type="checkbox"/>	7. Unit Agreement Name N/A
2. Name of Operator Alex R. Masson, Inc.		8. Farm or Lease Name Bailey
3. Address of Operator Drawer F Linwood, KS 66052		9. Well No. # 19
4. Location of Well Unit Letter B 800.9 Feet From The North Line and 1682.5 Feet From The East Line, Section 10 Township 21 S Range 1 W NMPM.		10. Field and Pool, or Wildcat Radium Sprs. K.G.R.A.
15. Elevation (Show whether DF, RT, GR, etc.) 3995 ft.		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 change classification of well ☒

OTHER ☐

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

* Change Well Classification - Well # 19 was originally permitted as a geothermal producer. This well was drilled to produce low-temperature thermal water for the purpose of extracting heat for agriculture, therefore, a type well change is requested from Geothermal Producer to a Low Temp Thermal.

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

SIGNED [Signature] TITLE Operator DATE May 5, 86

APPROVED BY [Signature] TITLE District Supervisor DATE 6-4-86

CONDITIONS OF APPROVAL, IF ANY:

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form G-101
Adopted 10-1-74
Revised 10-1-78

NO. OF COPIES RECEIVED	
DISTRIBUTION	
File	
N.M.B.M.	
U.S.G.S.	
Operator	
Land Office	

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 ☒ Deepen ☐ Plug Back ☐
b. Type of Well Geothermal Producer ☒ Temp Observation ☐
Low-Temp Thermal ☐ Injection/Disposal ☐

7. Unit Agreement Name
N/A
8. Farm or Lease Name
Bailey
9. Well No.
#19
10. Field and Pool, or Wildcat
Radium Sprs KGRA

2. Name of Operator
Alex R. Masson, Inc.
3. Address of Operator
Drawer F Linwood KS 66052
4. Location of Well UNIT LETTER B LOCATED 800.9 FEET FROM THE N LINE
AND 1682.5 FEET FROM THE E LINE OF SEC. 10 TWP. 21S RGE. 1W NMPM

12. County
Dona Ana

21. Elevations (Show whether DF, RT, etc.) 3995	21A. Kind & Status Plug. Bond	21B. Drilling Contractor LAR-Jon Drilling	22. Approx. Date Work will start 4/86
--	-------------------------------	--	--

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
9 7/8	7 O.D.	17#	80 ft *	20	surface

* Minimum of 20' surface csg., or as much as necessary to ensure csg. shoe penetrates at least 2 Feet of rhyolite.

[Signature]
B.A.F.

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 Bruce A. Flanagan Title OPERATOR Date 4/16/86

(This space for State Use)
APPROVED BY [Signature] TITLE District Supervisor DATE 4-17-86
CONDITIONS OF APPROVAL, IF ANY:

GEOHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

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

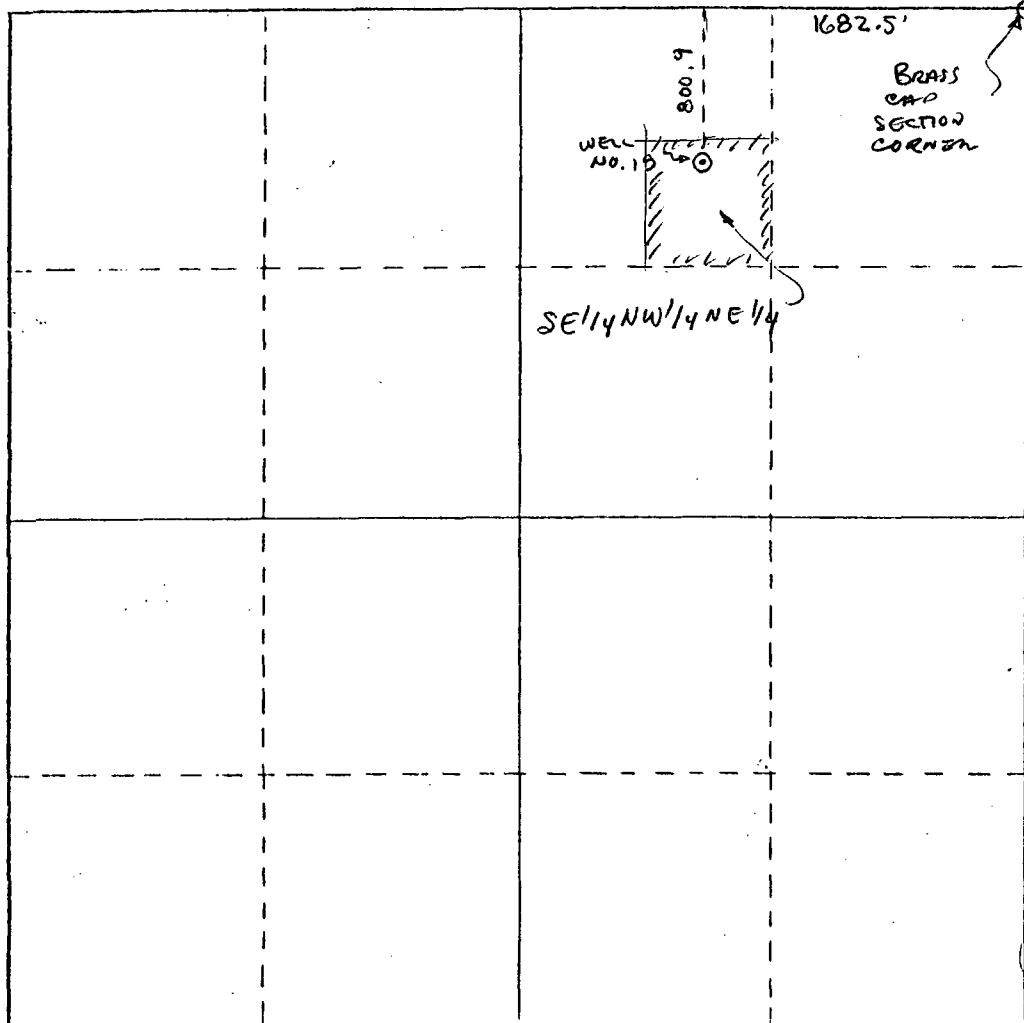
Operator		Lease		Well No. 19	
Unit Letter	Section 10	Township T21S	Range R1W	County DONA ANA COUNTY	
Actual Footage Location of Well: 1682.5 feet from the EAST line and 800.9 feet from the WEST NORTH line					
Ground Level Elev. 3995 ±	Producing Formation		Pool	Dedicated Acreage: Acres	

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownersip 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 Division.



CERTIFICATION

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

BRUCE A. FITZGERALD

Name
OPERATOR
Position
ALEX R. MASON, INC.
Company
4/16/86
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.

APR 16 1986
JAMES A. BOISEFC
Date Surveyed
Registered Professional Engineer and/or Land Surveyor
NMPES
Certificate No.

NO. OF COPIES RECEIVED		
DISTRIBUTION		
File		
N. M. B. M.		
U. S. G. S.		
Operator		
Land Office		

NEW MEXICO OIL CONSERVATION COMMISSION
P. O. Box 2088, Santa Fe 87501SUNDRY NOTICES AND REPORTS
ON
GEOTHERMAL RESOURCES WELLS

5. Indicate Type of Lease
State <input type="checkbox"/> Fee <input checked="" type="checkbox"/>
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"/> Low-Temp Thermal <input checked="" type="checkbox"/>	Temp. Observation <input type="checkbox"/> Injection/Disposal <input type="checkbox"/>	7. Unit Agreement Name N/A
2. Name of Operator Alex. R. Masson, Inc.		8. Farm or Lease Name Bailey
3. Address of Operator Drawer F, Linwood KS 66052		9. Well No. 20
4. Location of Well Unit Letter <u>B</u> <u>467.4</u> Feet From The <u>north</u> Line and <u>1708.8</u> Feet From The <u>east</u> Line, Section <u>10</u> Township <u>21S</u> Range <u>1W</u> NMPM.		10. Field and Pool, or Wildcat Radium Springs
15. Elevation (Show whether DF, RT, GR, etc.) 4000 GR		12. County Pona Ana

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 checked="" 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 <input type="checkbox"/>	

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.

Plugged and abandoned

20 - 160 feet - cuttings

0 - 20 feet - near casing

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

SIGNED James T. Gross TITLE Project Hydrogeologist DATE June 9, 1986

APPROVED BY Ry. [Signature] TITLE DISTRICT SUPERVISOR DATE 11-21-96

CONDITIONS OF APPROVAL, IF ANY:

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

GEOTHERMAL RESOURCES WELL SUMMARY REPORT

Operator Alex R. Masson, Inc. Address Drawer F, Linwood KS 66052
Lease Name Bailey Well No. 20
Unit Letter B Sec. 10 Twp. 21S Rge 1W
Reservoir Radium Springs County Dona Ana

Commenced drilling May 1, 1986 GEOLOGICAL MARKERS DEPTH
Completed drilling May 2, 1986 Palm Park Formation 0-160'
Total depth 160' Plugged depth 0'
Junk none

Commenced producing _____ (Date) Geologic age at total depth: Eocene

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

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
9 7/8"	7" OD	17 lbs.		New	Seamless	40'	- 2'	9	0 GR	visually

PERFORATED CASING

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

Was analysis of effluent made? none Electrical log depths none Temperature log depths 100 feet

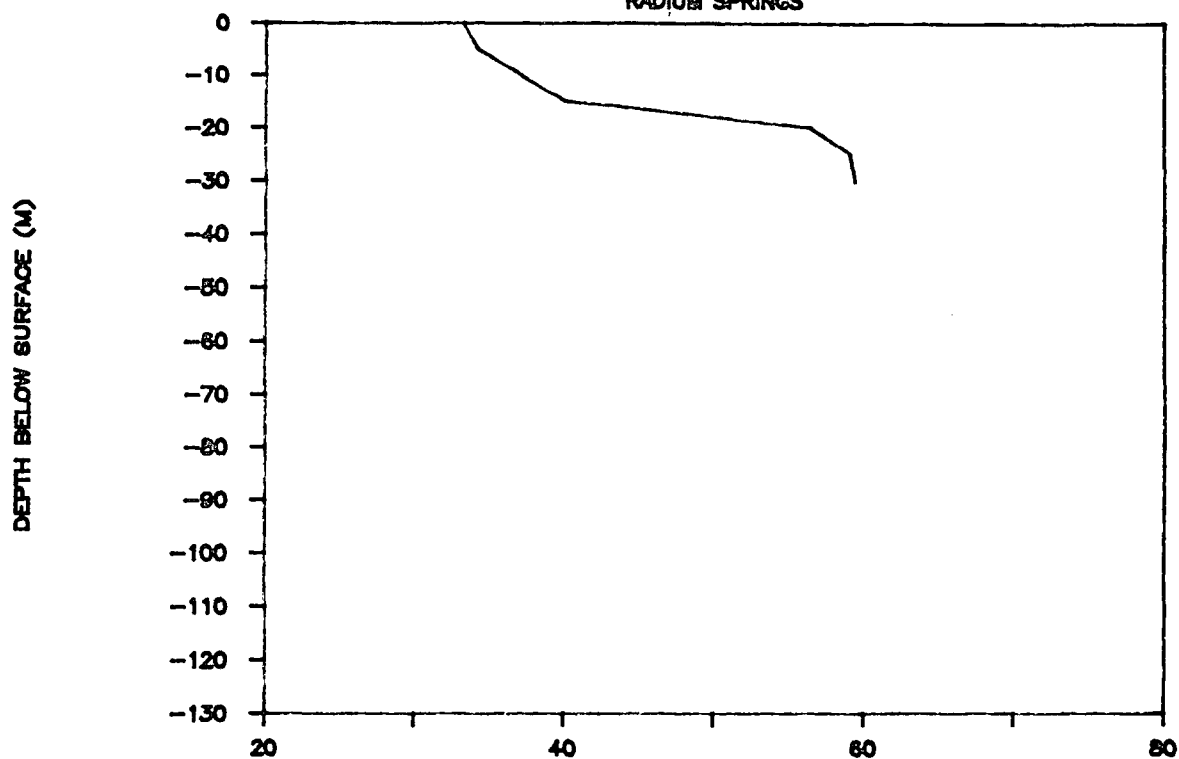
CERTIFICATION

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 James T. Gross Position Project Hydrogeologist Date June 9, 1986

MASSON GEOTHERMAL WELL #20

RADIUM SPRINGS



+ BHT (C): 56.4

◇ TD (M): 33.5

△ EST. GPM: 5

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

NO. OF COPIES RECEIVED		
DISTRIBUTION		
File		
N. M. B. M.		
U. S. G. S.		
Operator		
Land Office		

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

7. Unit Agreement Name

N/A

2. Name of Operator

Alex. R. Masson, Inc.

8. Farm or Lease Name

Bailey

3. Address of Operator

Drawer F, Linwood KS 66052

9. Well No.

20

4. Location of Well

Unit Letter B 467.4 Feet From The north Line and 1708.8 Feet From

10. Field and Pool, or Wildcat

Radium Springs

The east Line, Section 10 Township 21S Range 1W NMPM.

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

4000 GR

12. County

Donna 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 ☐

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.

Plugged and abandoned

20 - 160 feet - cuttings

0 - 20 feet - neat cement slurry

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

SIGNED James P. Gross TITLE Project Hydrogeologist DATE June 9, 1986

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

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

GEOHERMAL RESOURCES WELL LOG

Operator Alex R. Hasson, Inc.
Address Drawer F, Linwood KS 66052
Reservoir Radium Springs
Lease Name Bailey Well No. 20 Unit Letter B
Location: 467.4 feet from the north line and 1708.8 feet from the east line Section 10
Township 21 S Range 1 W County Dona Ana

FORMATIONS PENETRATED BY WELL

DEPTH TO		Thickness	Drilled or Cored	Recovery	DESCRIPTION
Top of Formation	Bottom of Formation				
0	160'	160' TD			Light brown clay, silt, and sand; poorly sorted. Probably volcanic mudflows of Palm Park Formation.

Attach Additional Sheets if Necessary

This form must be accompanied by copies of electric logs, directional surveys, physical or chemical logs, water analyses, tests, and temperature surveys (See Rule 205).

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 James R. Gross Position Project Hydrogeologist Date June 5, 1986

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form G-101
Adopted 10-1-74
Revised 10-1-78

NO. OF COPIES RECEIVED	
DISTRIBUTION	
File	
N.M.B.M.	
U.S.G.S.	
Operator	
Land Office	

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 ☒ Deepen ☐ Plug Back ☐
b. Type of Well Geothermal Producer ☐ Temp Observation ☐
Low-Temp Thermal ☒ Injection/Disposal ☐

7. Unit Agreement Name
N/A

8. Farm or Lease Name
Bailey

2. Name of Operator
Alex R. Masson, Inc.

9. Well No.
20

3. Address of Operator
Drawer F Linwood, KS 66052

10. Field and Pool, or Wildcat
Radium Springs KGRA

4. Location of Well UNIT LETTER B LOCATED 1708.8 FEET FROM THE East LINE
AND 467.4 FEET FROM THE North LINE OF SEC. 10 TWP. T 21S RGE. R 1W NMPM

12. County
Dona Ana

21. Elevations (Show whether DF, RT, etc.)	21A. Kind & Status Plug. Bond	21B. Drilling Contractor Lar-Jon Drilling	22. Approx. Date Work will start 4/25/86
--	-------------------------------	--	---

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
9 7/8"	7 O.D.	# 17	20-80'	5-20	surface

* A minimum of 20' surface casing, or as much as necessary to ensure casing shoe penetrates at least 2' of Rhyolite.

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 Bruce A. Fitzgibbon Title Operator Date 4/25/86

(This space for State Use)

APPROVED BY Roy E. Johnson TITLE DISTRICT SUPERVISOR DATE 4-29-86

CONDITIONS OF APPROVAL, IF ANY:

GEOHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

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

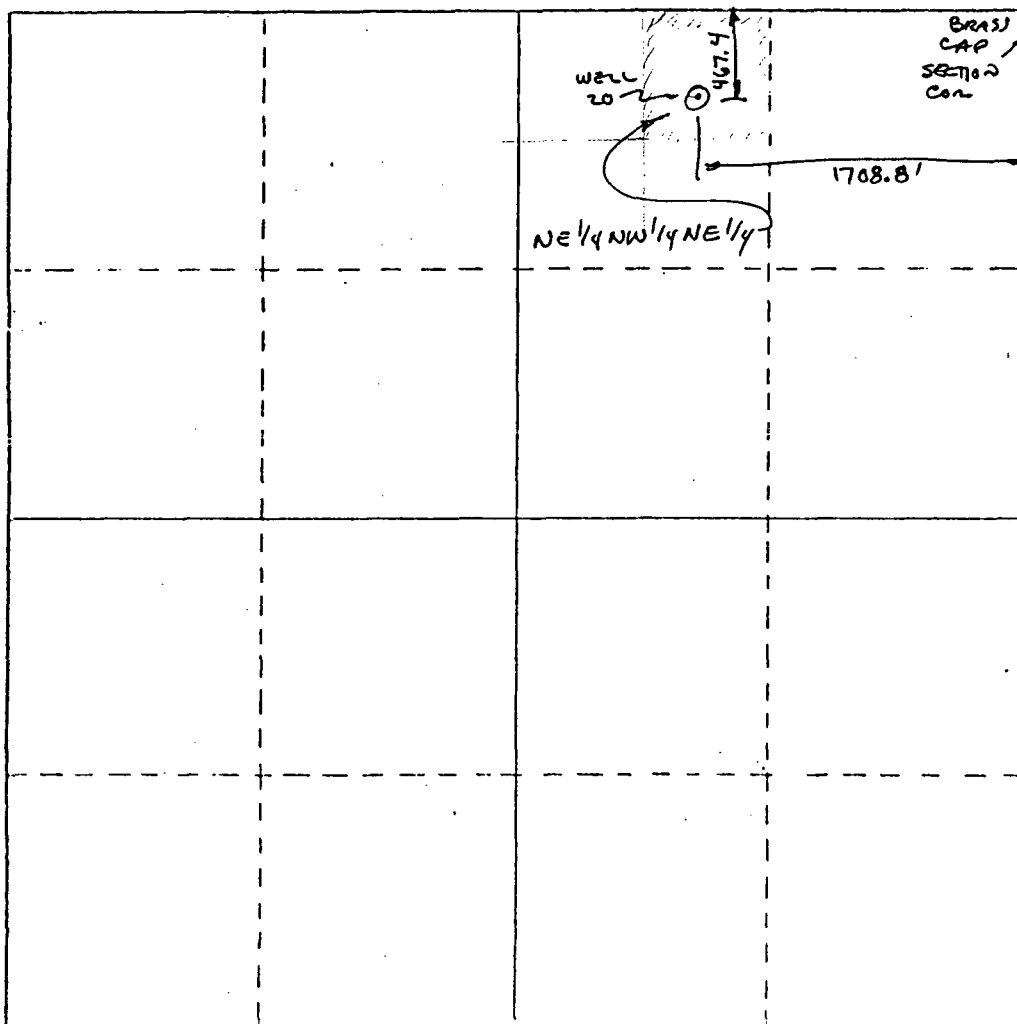
Operator		Lease		Well No. 20	
Unit Letter B	Section 10	Township T21S	Range R1W	County DONA ANA COUNTY	
Actual Footage Location of Well: 1708.8' feet from the EAST line and 467.4 feet from the NORTH line					
Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage: Acres		

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 Division.



CERTIFICATION

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

Name
BRUCE A. FITZGERALD
Position
OPERATOR
Company
ALEX R. WASSONS, INC.
Date
4/24/86

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
5211
Registered Professional Engineer
and/or Land Surveyor
JAMES A. BOTSFORD

NMPLS 5211

Certificate No.

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form G-103
Adopted 10-1-74
Revised 10-1-78

NO. OF COPIES RECEIVED	
DISTRIBUTION	
File	
N. M. B. M.	
U. S. G. S.	
Operator	
Land Office	

SUNDRY NOTICES AND REPORTS
ON
GEOTHERMAL RESOURCES WELLS

5. Indicate Type of Lease	
State <input type="checkbox"/>	Fee <input checked="" type="checkbox"/>
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 type="checkbox"/> Low-Temp Thermal <input checked="" type="checkbox"/> Injection/Disposal <input type="checkbox"/>		7. Unit Agreement Name N/A
2. Name of Operator ALEX R. MASSON, INC.		8. Farm or Lease Name BAILEY
3. Address of Operator DRAWER F. LINWOOD, KS 66052		9. Well No. 21
4. Location of Well Unit Letter <u>B</u> <u>2450.8</u> Feet From The <u>EAST</u> Line and <u>369.6</u> Feet From The <u>NORTH</u> Line, Section <u>10</u> Township <u>21S</u> Range <u>1W</u> NMPM.		10. Field and Pool, or Wildcat RADIUM SPGS. K.G.R.A.
15. Elevation (Show whether DF, RT, GR, etc.) 4005 FT		12. County DONA ANA

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	
PULL OR ALTER CASING <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
OTHER <u>CHANGE LOCATION</u> <input checked="" type="checkbox"/>	

SUBSEQUENT REPORT OF:

REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG & ABANDONMENT <input type="checkbox"/>
CASING TEST AND CEMENT JOB <input type="checkbox"/>	
OTHER <input type="checkbox"/>	

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.

ON 1-09-93 WE COMPLETED DRILLING AN EXPLORATORY WELL APPROXIMATELY 100 FEET NORTH OF WELL #21. THIS WELL SHOWS SIGNS OF BEING A GOOD PRODUCTION WELL. OUR INTENTION IS TO MOVE WELL #21 TO THIS LOCATION AND UTILIZE IT AS A PRODUCTION WELL.

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

SIGNED Brian A. Felt TITLE OPERATOR DATE 2/10/93

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form G-103
Adopted 10-1-74
Revised 10-1-78

NO. OF COPIES RECEIVED		
DISTRIBUTION		
File		
N. M. B. M.		
U. S. G. S.		
Operator		
Land Office		

SUNDRY NOTICES AND REPORTS
ON
GEOTHERMAL RESOURCES WELLS

5. 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"/> Low-Temp Thermal <input checked="" type="checkbox"/>	Temp. Observation <input type="checkbox"/> Injection/Disposal <input type="checkbox"/>	7. Unit Agreement Name N/A
2. Name of Operator ALEX R. MASSON, INC.		8. Farm or Lease Name BAILEY
3. Address of Operator DRAWER F LINWOOD, KS. 66052		9. Well No. 21
4. Location of Well Unit Letter B 2450.8 Feet From The EAST Line and 369.6 Feet From The NORTH Line, Section 10 Township 21 S Range 1 W NMPM.		10. Field and Pool, or Wildcat RADUM SPGS KGRA
15. Elevation (Show whether DF, RT, GR, etc.) 4000 FT.		12. County DONA ANA

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"/>	CHANGE PLANS <input checked="" type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG & ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input type="checkbox"/>	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.

Well #21 will NOT BE USED AS A PRODUCING WELL AT THIS TIME
DUE TO SMALL CASING SIZE, LIMITING PUMP SIZE REQUIRED.
Holt

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

SIGNED Bruce A. Fitzgerald TITLE Operator Mgr DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form G-101
Adopted 10-1-74
Revised 10-1-78

NO. OF COPIES RECEIVED	
DISTRIBUTION	
File	
N.M.B.M.	
U.S.G.S.	
Operator	
Land Office	

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 ☒ Deepen ☐ Plug Back ☐
b. Type of Well Geothermal Producer ☐ Temp Observation ☐
Low-Temp Thermal ☒ Injection/Disposal ☐

7. Unit Agreement Name
N/A
8. Farm or Lease Name
Bailey

2. Name of Operator
Alex R. Masson, Inc.
3. Address of Operator
Drawer F Linwood KS 66052

9. Well No.
21
10. Field and Pool, or Wildcat
Radium Springs KGRA

4. Location of Well UNIT LETTER B LOCATED 2450.8 FEET FROM THE East LINE
AND 369.6 FEET FROM THE North LINE OF SEC. 10 TWP. 21 S RGE. 1 W NMPM

12. County
Dona Ana

21. Elevations (Show whether DF, RT, etc.)	21A. Kind & Status Plug. Bond	21B. Drilling Contractor Lar-Jon Drilling	22. Approx. Date Work will start 4/25/86
--	-------------------------------	--	---

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
9 7/8"	7 O. D.	# 17	20-180'	5-20	surface

* A Minimum of 20' surface casing, or as much as necessary to ensure casing shoe penetrates at least 2' of Rhyolite.

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 Bruce A. Fitzgerald Title Operator Date 4/25/86

(This space for State Use)

APPROVED BY Roy E. Johnson TITLE DISTRICT SUPERVISOR DATE 4-29-86

CONDITIONS OF APPROVAL, IF ANY:

GEOHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

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

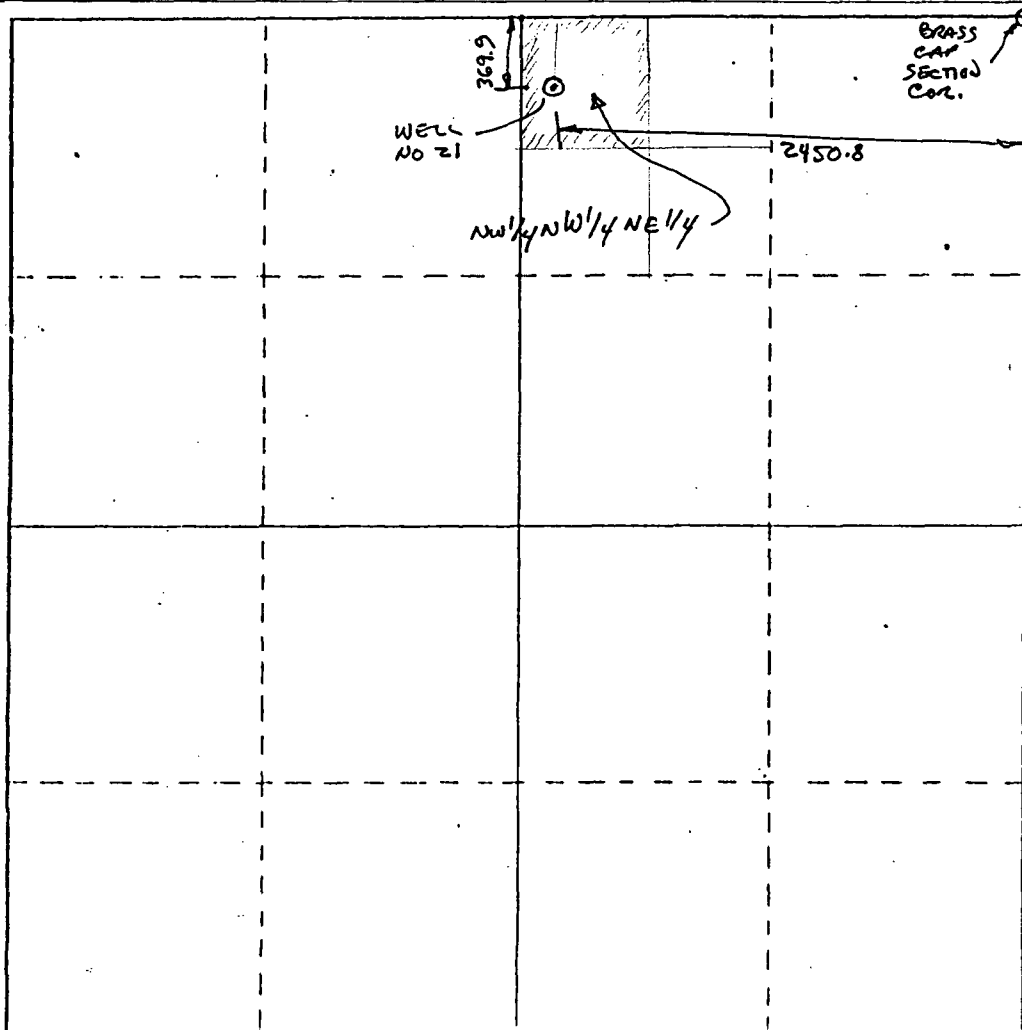
Operator		Lease		Well No. 21	
Unit Letter B	Section 10	Township T21S	Range R1W	County DONA ANA COUNTY	
Actual Footage Location of Well: 2450.8 feet from the EAST line and 369.9 feet from the NORTH line					
Ground Level Elev. 4000	Producing Formation		Pool	Dedicated Acreage: Acres	

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 Division.

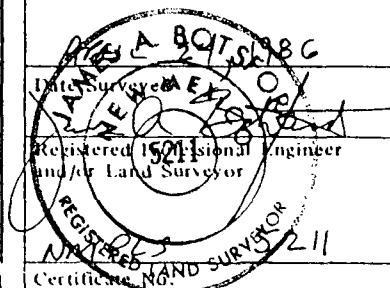


CERTIFICATION

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

Name **BRUCE A. FITZGERALD**
Position **OPERATOR**
Company **ALEX R. MASSON, INC.**
Date **4/24/86**

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.



NEW MEXICO OIL CONSERVATION COMMISSION

P. O. Box 2088, Santa Fe 87501

GEOHERMAL RESOURCES WELL LOG

Operator Alex. R. Masson, Inc
 Address Drawer F, Linwood KS 66052
 Reservoir Radium Springs
 Lease Name Bailey Well No. 21 Unit Letter B
 Location: 369.9 feet from the north line and 2450.8 feet from the east line Section 10
 Township 21S Range 1W County Dona Ana

FORMATIONS PENETRATED BY WELL

DEPTH TO		Thickness	Drilled or Cored	Recovery	DESCRIPTION
Top of Formation	Bottom of Formation				
0	10'	10'			
10	30'	20'			
30	50'	20'			
50'	280'	230'			

Attach Additional Sheets if Necessary

This form must be accompanied by copies of electric logs, directional surveys, physical or chemical logs, water analyses, tests, and temperature surveys (See Rule 205).

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 James R. Gross Position Project Hydrogeologist Date June 5, 1986

21

0-10' Light brown clay, silt, sand, and small to medium pebbles of volcanic fragments

10-30' Purplish-brown volcanic material containing abundant feldspar phenos. Probably mudflow, but possibly altered dacite(?) or (?)

30-50' Light brown clay, silt, and sand. Minor fragments of tuff.

50-280' Mostly pink to pinkish gray rhyolite porphyry. Chips are mostly angular; formation appears well indurated. Minor amount of light green tuff at 200 to 240'.

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

GEOHERMAL RESOURCES WELL SUMMARY REPORT

Operator Alex R. Masson, Inc Address Drawer F Linwood KS 66052
Lease Name Bailey Well No. 21
Unit Letter B Sec. 10 Twp. 21S Rge 1W
Reservoir Radium Springs County Dana Ana

Commenced drilling April 28, 1986 GEOLOGICAL MARKERS DEPTH
Completed drilling April 29, 1986 Bell Top Formation 0 - 280'
Total depth 280' Plugged depth _____
Junk none
Commenced producing _____ Geologic age at total depth: Oligocene
(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

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
9 7/8"	7" OD	17 lbs.		New	Seamless	35'	+ 1 feet	8	0 GR	visually

PERFORATED CASING

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

Was analysis of effluent made? none Electrical log depths none Temperature log depths 180 feet

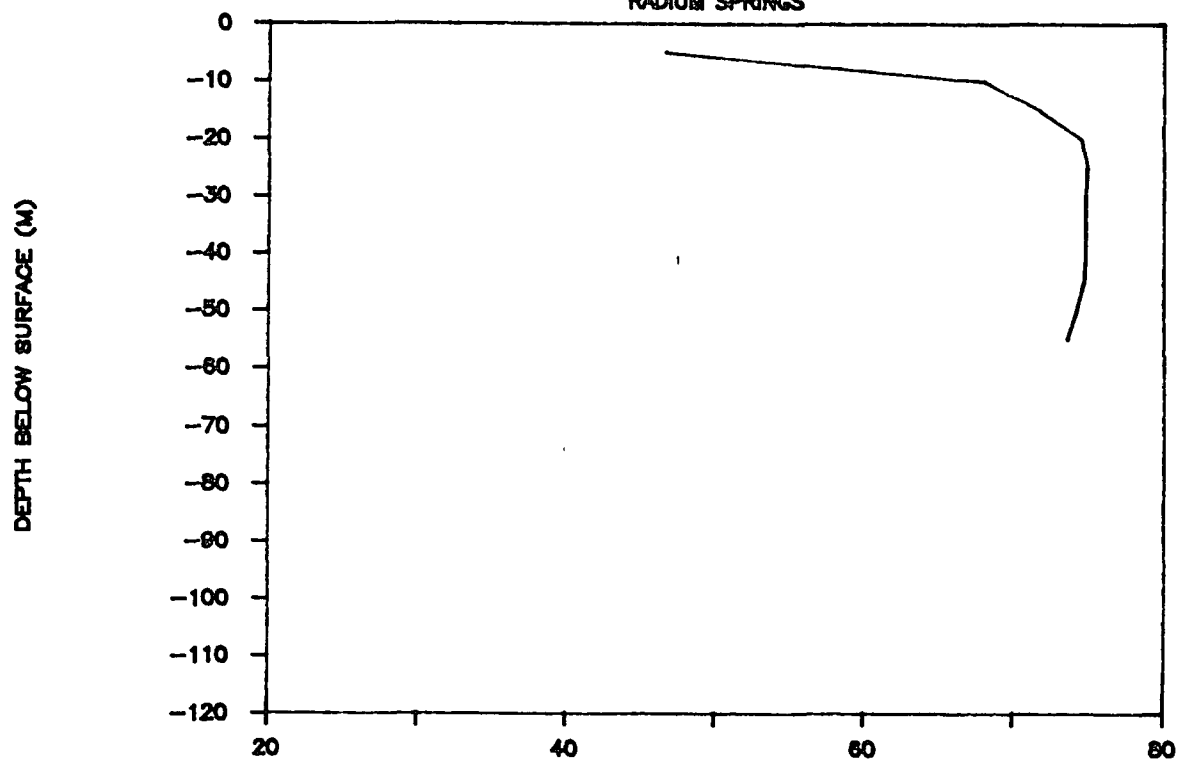
CERTIFICATION

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 James R. Gross Position Project Hydrogeologist Date June 9, 1986

MASSON GEOTHERMAL WELL #21

RADIUM SPRINGS



+ BHT (C): 73.6

◇ TD (M): 85

△ EST. GPM: 150

GEOHERMAL RESOURCES WELL HISTORY

Operator ALEX R. MASSON INC. Address DRAWER F. LINWOOD KANSAS 66452
Lease Name BAILEY Well No. 21
Unit Letter B Sec. 10 Twp. 21S Rge 1W
Reservoir Radium Springs 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

4/28/86 COMMENCED DRILLING (REF. FORM G-106-7)
4/29/86 COMPLETED DRILLING
CASING 7" OD SEAMLESS SHOE DEPTH 35'
CEMENTED TO SURFACE WITH 8 SACKS CEMENT, VISUALLY AT SURFACE
8/21-86 REF. RESULTS OF GROUND WATER MONITORING & PUMP TESTING
IN THE RADIUM SPRINGS GEOHERMAL AREA NEW MEXICO
SUBMITTED EARLIER PREPARED BY JAMES T. GROSS OF
MALCOLM PIRNIE INC. DATED 8-21-1986

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 Bruce A. Fitzgall Position Operations Mgr. Date 2/22/87

OIL CONSERVATION DIVISION

P. O. BOX 2088

Form G-104
Adopted 10-1-74
Revised 10-1-78STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

CERTIFICATE OF COMPLIANCE
AND AUTHORIZATION TO PRODUCE
GEOTHERMAL RESOURCES

OWNER OR OPERATOR

Name ALEX R. MASSON INC.
Address DRAWER F. LINWOOD KANSAS 66052

TYPE OF WELL

Geothermal Producer ☐Low-Temperature Thermal ☒Injection/Disposal ☐

REASON FOR FILING

New Well ☐Recompletion ☐Change in Ownership ☐Designation of Purchaser ☐Other (Please Explain) ☐PER/INR ROY JOHNSON LETTER DATED 11-18-86

DESCRIPTION OF WELL

Lease Name _____ Well No. 21 Name of Reservoir Radium Springs

Kind of Lease

Lease

(Fee, Fed. or State)

Number _____

LOCATION

Unit

Letter B; 369.9 feet from the NORTH line and
2450.8 feet from the EAST line ofSection 10 Township 21 S Range 1 WCounty DANA AND

TYPE OF PRODUCT

Dry

Steam and

Low Temp.

Steam

Water

Thermal Water

☒

DESIGNATION OF PURCHASER OF PRODUCT

Name of

Purchaser ALEX R. MASSON INC

Address of

Purchaser DRAWER F. LINWOOD KANSAS 66052

Product Will

Be Used For GREEN HOUSE HEATING

CERTIFICATE OF COMPLIANCE

I hereby certify that all rules and regulations concerning geothermal resources wells in the State of New Mexico, as promulgated by the Oil Conservation Division of New Mexico, have been complied with, with respect to the subject well, and that the information given above is true and complete to the best of my knowledge and belief.

Signed Bruce A. FitzgualdPosition Operation Mgr Date 2/22/87Approved [Signature]Position DISTRICT SUPERVISOR Date 4-22-87

ALEX R. MASSON, INC.

P.O. BOX 20
RADIUM SPRINGS, NM 88054
PHONE (505) 524-1791
FAX # 526-10-50



FAX
COMMUNICATION

COMPANY: O.C.DFROM: Bruce FITZGERALDATTN: ROY JOHNSONDATE: 2/10/93SUBJECT: SUNDRY NOTICES

NUMBER OF PAGES	INQUIRY	PLEASE CONFIRM	ORDER	IN RESPONSE TO YOUR REQUEST	FOR YOUR INFORMATION
2					

WELL #25 - DISPOSED WELLWELL #21 - CHANGE LOCATION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form G-103
Adopted 10-1-74
Revised 10-1-76

NO. OF COPIES RECEIVED	
DISTRIBUTION	
File	
N. M. B. M.	
U. S. G. S.	
Operator	
Land Office	

SUNDRY NOTICES AND REPORTS
ON
GEOTHERMAL RESOURCES WELLS

5. 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
W/A

2. Name of Operator
ALEX R. MASSON INC.

8. Farm or Lease Name
BAILEY

3. Address of Operator
DRAWER F, LINWOOD, KS 66052

9. Well No.
#22

4. Location of Well
Unit Letter A 2604 Feet From The EAST Line and 3741 Feet From

10. Field and Pool, or Wildcat
RADIUM SPGS K-G.R.A

The NORTH Line, Section 10 Township 21S Range 1W NMPM.

15. Elevation (Show whether DF, RT, GR, etc.)
4005 AC

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 COMMENCE PRODUCTION OPERATIONS ☒

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.

114222 WELL #22 AC A PRODUCTION WELL

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

SIGNED Bruce A. Fitzgerald TITLE Operator Mgr. DATE

APPROVED BY TITLE DATE

CONDITIONS OF APPROVAL, IF ANY:

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form G-101
Adopted 10-1-74
Revised 10-1-78

NO. OF COPIES RECEIVED	
DISTRIBUTION	
File	
N.M.B.M.	
U.S.G.S.	
Operator	
Land Office	

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

5. Indicate Type of Lease
STATE ☐ FEE ☒
5.a State Lease No.

7. Unit Agreement Name
N/A

8. Farm or Lease Name
MASSON

9. Well No.
22

10. Field and Pool, or Wildcat
RADIUM SRS. K.G.R.A

12. County
DONA ANA

19. Proposed Depth
150'

19A. Formation

20. Rotary or C.T.
ROTARY

21. Elevations (Show whether DF, RT, etc.)

21A. Kind & Status Plug. Bond

21B. Drilling Contractor
LAR-JON

22. Approx. Date Work will start
12/2/86

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
17 1/2"	12 3/4"	25.22	40'	32	SURFACE

* A MINIMUM OF 20' SURFACE CASING, OR AS MUCH AS NECESSARY
TO ENSURE CASING SHOE PENETRATES AT LEAST 2' OF RHYOLITE.

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.

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

Signed Bruce A. Felzquald Title OPERATOR Date 11/28/86

(This space for State Use)

APPROVED BY [Signature] TITLE DISTRICT SUPERVISOR DATE 12-1-86

CONDITIONS OF APPROVAL, IF ANY:

GEOHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

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

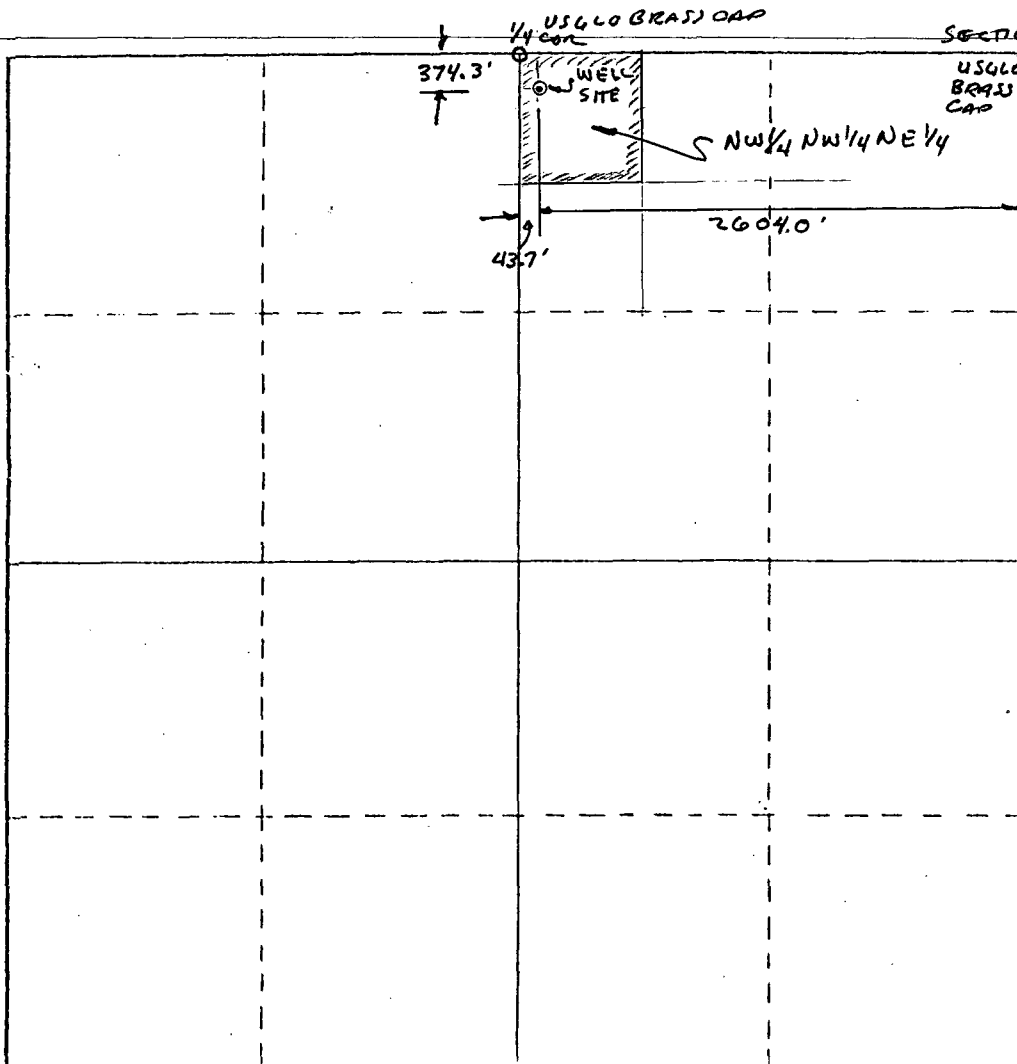
Operator ALEX R. MASSON Inc.		Lease		Well No. 22	
Unit Letter	Section 10	Township T.21S.	Range R.1W.	County DONA ANA	
Actual Footage Location of Well:					
feet from the		line and		feet from the line	
Ground Level Elev. 4005	Producing Formation		Pool RAIDUM SPRINGS	Dedicated Acreage: 10.00 Acres	

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

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

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

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



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

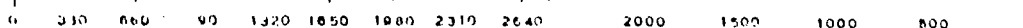
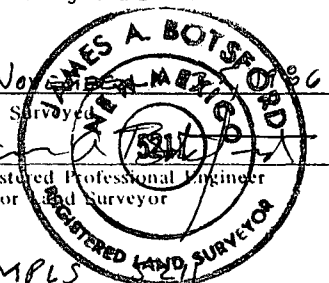
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

Registered Professional Engineer and/or Registered Surveyor

NMPLS

Certificate No.



OIL CONSERVATION DIVISION

P. O. BOX 2088

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

Form G-104
Adopted 10-1-74
Revised 10-1-78CERTIFICATE OF COMPLIANCE
AND AUTHORIZATION TO PRODUCE
GEOTHERMAL RESOURCES

OWNER OR OPERATOR

Name ALEX R. MASSON INC
Address DRAWER F LINWOOD KANSAS 66052

TYPE OF WELL

Geothermal Producer ☐Low-Temperature Thermal ☒Injection/Disposal ☐

REASON FOR FILING

New Well ☒ Recompletion ☐Change in Ownership ☐ Designation of Purchaser ☐Other (Please Explain) ☐PER MR. ROY JOHNSON LETTER DATED 11-18-86

DESCRIPTION OF WELL

Lease Name _____ Well No. 22 Name of Reservoir RADIUM SPRINGS

Kind of Lease (Fee, Fed. or State) _____ Lease Number _____

LOCATION

Unit Letter B; 2917 feet from the EAST line and
269 feet from the NORTH line ofSection 10 Township 21S Range 1W
County DONA ANA

TYPE OF PRODUCT

Dry _____ Steam and _____ Low Temp. _____
Steam _____ Water _____ Thermal Water X

DESIGNATION OF PURCHASER OF PRODUCT

Name of Purchaser ALEX R. MASSON INCAddress of Purchaser DRAWER F LINWOOD KANSAS 66052Product Will Be Used For GREEN HOUSE HEATING

CERTIFICATE OF COMPLIANCE

I hereby certify that all rules and regulations concerning geothermal resources wells in the State of New Mexico, as promulgated by the Oil Conservation Division of New Mexico, have been complied with, with respect to the subject well, and that the information given above is true and complete to the best of my knowledge and belief.

Signed Bruce A. Fitzgerald Position Operation Mgr Date 2/22/87
Approved Roy E. Johnson Position DISTRICT SUPERVISOR Date 4-22-87

GEOHERMAL RESOURCES WELL HISTORY

Operator ALEX R. MASSON INC. Address DRAWER F. LINWOOD KANSAS 66052
Lease Name BAILEY Well No. 22
Unit Letter B Sec. 10 Twp. 21S Rge. 1W
Reservoir RADIUM SPRINGS 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

THIS WELL WAS COMPLETED AT TD 120' AND IS UNDER GOING
STABILIZATION & TEMP. LOGGING AT THIS TIME
WELL 22 WILL BE TESTED AT A LATER DATE. AND THE INFORMATION
GATHERED FORWARDED AT THAT TIME
DRILLER'S LOG WILL BE FORWARDED WHEN RECEIVED

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 Bruce A. Fitzgall Position Operation Mgr. Date 2/22/87

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form G-103
Adopted 10-1-74
Revised 10-1-78

NO. OF COPIES RECEIVED	
DISTRIBUTION	
File	
N. M. B. M.	
U. S. G. S.	
Operator	
Land Office	

SUNDRY NOTICES AND REPORTS
ON
GEOTHERMAL RESOURCES WELLS

5. 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 type="checkbox"/> Low-Temp Thermal <input checked="" type="checkbox"/> Injection/Disposal <input type="checkbox"/>	7. Unit Agreement Name N/A
2. Name of Operator ALEX B. MASSON, INC.	8. Farm or Lease Name BAILEY
3. Address of Operator DRAVER F, LINWOOD, KS 66052	9. Well No. 23
4. Location of Well Unit Letter B 2460 Feet From The EAST Line and 369 Feet From The N Line, Section 10 Township 21S Range 1W NMPM.	10. Field and Pool, or Wildcat RADIIUM SPRING, K.G.R.A.
15. Elevation (Show whether DF, RT, GR, etc.) 4000 FT	12. County DANA 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 COMMENCE PRODUCTION OPERATIONS ☒

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.

UTILIZE WELL # 23 AS A PRODUCTION WELL AS REQUIRED

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

SIGNED Bruce A. Fitzgibbon TITLE Operator Mgr DATE

APPROVED BY TITLE DATE

CONDITIONS OF APPROVAL, IF ANY:

OIL CONSERVATION DIVISION

P. O. BOX 2088

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

Form G-104
Adopted 10-1-74
Revised 10-1-78CERTIFICATE OF COMPLIANCE
AND AUTHORIZATION TO PRODUCE
GEOTHERMAL RESOURCES

OWNER OR OPERATOR

Name ALEX R. MASSON, INC.Address DRAWER F, LINWOOD, KANSAS 66052

TYPE OF WELL

Geothermal Producer ☐Low-Temperature Thermal ☒Injection/Disposal ☐

REASON FOR FILING

New Well ☒ Recompletion ☐Change in Ownership ☐ Designation of Purchaser ☐Other (Please Explain) ☐PER MR. ROY JOHNSON LETTER DATED 11-18-86

DESCRIPTION OF WELL

Lease

Well

23

Name of

Reservoir

RADIUM SPRINGS

Kind of Lease

Lease

(Fee, Fed. or State)

Number

LOCATION

Unit

B2460

feet from the

EAST

line and

Letter

369

feet from the

NORTH

line of

Section

10

Township

21 S

Range

1 W

County

DONAANA

TYPE OF PRODUCT

Dry

Steam and

Steam

Water

Low Temp.

Thermal Water ☒

DESIGNATION OF PURCHASER OF PRODUCT

Name of

Purchaser

ALEX R. MASSON, INC.

Address of

Purchaser

DRAWER F, LINWOOD, KANSAS 66052

Product Will

Be Used For

GREENHOUSE HEATING

CERTIFICATE OF COMPLIANCE

I hereby certify that all rules and regulations concerning geothermal resources wells in the State of New Mexico, as promulgated by the Oil Conservation Division of New Mexico, have been complied with, with respect to the subject well, and that the information given above is true and complete to the best of my knowledge and belief.

Signed

Brian A. Fitzgerald

Position

Operation Mgr

Date

Approved

Position

Date



FLOWERING PLANTS
DECORATIVE FOLIAGE PLANTS
PLANT CARE ACCESSORIES

913 / 723-3222

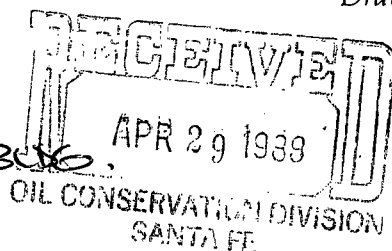
Drawer F Linwood, Kansas 66052

OIL CONSERVATION DIV.

P.O. STATE LAND OFFICE Bldg.

SANTA FE, N.M. 87501

ATTN: MR. ROY JOHNSON



ENCLOSED PLEASE FIND COPIES OF SEVERAL FORMS
STILL NOT COMPLETE IN OUR FILE. THERE WILL BE
OTHERS COMING SHORTLY TO COMPLETE THIS MATTER.

WELL NO.

21 - 103,

22 - 103

23 - 103, 104

PLEASE LET ME KNOW IF THESE ARE NOT COMPLETE,
PHONE 524-1791.

SORRY FOR THE DELAY

SINCERELY

Blaine Fitzgerald

P.S. I WILL BE IN CONTACT

WITH YOU SOON REGARDING DUMPING REQUIREMENTS ETC.,

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form G-103
Adopted 10-1-74
Revised 10-1-78

NO. OF COPIES RECEIVED		
DISTRIBUTION		
File		
N. M. B. M.		
U. S. G. S.		
Operator		
Land Office		

SUNDRY NOTICES AND REPORTS
ON
GEOTHERMAL RESOURCES WELLS

5. 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 ☐
2. Name of Operator Alex R Masson Inc.
3. Address of Operator DRAWER F LINWOOD KS 66052
4. Location of Well
Unit Letter S 2460.8 Feet From The EAST Line and 369.6 Feet From
NORTH
The Mid-Section Line, Section 10 Township T2LS Range R1W NMPM.

7. Unit Agreement Name
N/A
8. Farm or Lease Name
MASSON
9. Well No.
23
10. Field and Pool, or Wildcat
RADIAN SPR. KGRA

15. Elevation (Show whether DF, RT, GR, etc.)
4000 OK

12. County
DRAWER

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 <input type="checkbox"/>	

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.

We propose to case this well to 20' with
12 2/3" 188 SEAMLESS CASING

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

SIGNED Bruce A. Fitzgerald TITLE OPERATOR DATE 11/19/96

APPROVED BY Ry E. Phum TITLE DISTRICT SUPERVISOR DATE 11-21-96

CONDITIONS OF APPROVAL, IF ANY:

OIL CONSERVATION DIVISION

P. O. BOX 2088

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

Form G-104
Adopted 10-1-74
Revised 10-1-78CERTIFICATE OF COMPLIANCE
AND AUTHORIZATION TO PRODUCE
GEOTHERMAL RESOURCES

OWNER OR OPERATOR

Name Alex R Masson Inc.
Address Drawer F Linwood KS 66052

TYPE OF WELL

Geothermal Producer ☐ Low-Temperature Thermal ☒ Injection/Disposal ☐

REASON FOR FILING

New Well ☒ Recompletion ☐
Change in Ownership ☐ Designation of Purchaser ☐
Other (Please Explain) ☐

DESCRIPTION OF WELL

Lease Name _____ Well No. 23 Name of Reservoir Radium Springs
Kind of Lease _____ Lease Number _____
(Fee, Fed. or State)

LOCATION

Unit Letter B; 2460.8 feet from the EAST line and
369.6 feet from the NORTH line of
Section 10 Township T21S Range R1W
County DONA ANA

TYPE OF PRODUCT

Dry _____ Steam and _____ Low Temp. _____
Steam _____ Water _____ Thermal Water _____

DESIGNATION OF PURCHASER OF PRODUCT

Name of Purchaser Alex R Masson Inc.
Address of Purchaser Drawer F Linwood KS 66052
Product Will Be Used For Green House Heating

CERTIFICATE OF COMPLIANCE

I hereby certify that all rules and regulations concerning geothermal resources wells in the State of New Mexico, as promulgated by the Oil Conservation Division of New Mexico, have been complied with, with respect to the subject well; and that the information given above is true and complete to the best of my knowledge and belief.

Signed Bruce A. Filizoglu Position G. Mgr. Date 11/14/96
Approved Ry Johnson Position DISTRICT SUPERVISOR Date 11-21-96

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form G-105
Adopted 10-1-74
Revised 10-1-78

GEOTHERMAL RESOURCES WELL LOG

Operator Alex R. Masson Inc.
 Address Drawer F Linwood KS 66052
 Reservoir Radium Springs
 Lease Name _____ Well No. 23 Unit Letter B
 Location: 2460.8 feet from the EAST line and _____
369.6 feet from the NORTH line Section 10
 Township T21S Range R1W County Don Ana

FORMATIONS PENETRATED BY WELL

DEPTH TO		Thickness	Drilled or Cored	Recovery	DESCRIPTION
Top of Formation	Bottom of Formation				
0	15	15			Fractured Rhyolite
15	120	105			Rhyolite with fewer fractures

Attach Additional Sheets if Necessary

This form must be accompanied by copies of electric logs, directional surveys, physical or chemical logs, water analyses, tests, and temperature surveys (See Rule 205).

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 Ben A. Fitzgerald Position Co. Mgr. Date 11/14/92

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form G-106
Adopted 10-1-74
Revised 10-1-78

GEOTHERMAL RESOURCES WELL SUMMARY REPORT

Operator Alex R. Masson Inc Address Drawer F Greenwood KS 66052
 Lease Name _____ Well No. 23
 Unit Letter B Sec. 10 Twp. T21S Rge R1W
 Reservoir Radium Springs County DONA ANA

Commenced drilling 11-28-89 GEOLOGICAL MARKERS _____ DEPTH _____
 Completed drilling 12-20-89 _____
 Total depth 120' Plugged depth _____
 Junk NONE _____
 Commenced producing _____ 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	

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
18 1/2	12 3/4	186 lb/ft		NEW	Seamless	NONE		23 CFT	SURFACE	VISUAL

PERFORATED CASING

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

Was analysis of effluent made? _____ Electrical log depths _____ Temperature log depths _____

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 Bruce A. Filz Position G. Mgr. Date 11/19/96

GEOHERMAL RESOURCES WELL HISTORY

Operator Alex R Masson Inc Address Drawer F Linwood KS 66052
Lease Name _____ Well No. 23
Unit Letter B Sec. 10 Twp. T21S Rge R1W
Reservoir Radium Springs 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

11-28-89 Commenced Drilling

12-20-89 Completed Drilling

CASING 12 $\frac{2}{3}$ " .188 WALL 20' NO SHOE 23 CUFT
CEMENT Pump

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 Bruce A. Fitzgerald Position G. Mgr Date 11/19/96

NO. OF COPIES RECEIVED	
DISTRIBUTION	
File	
N.M.B.M.	
U.S.G.S.	
Operator	
Land Office	

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 ☒ Deepen ☐ Plug Back ☐
b. Type of Well Geothermal Producer ☐ Temp Observation ☐
Low-Temp Thermal ☒ Injection/Disposal ☐

7. Unit Agreement Name
N/A
8. Farm or Lease Name
MASSON

2. Name of Operator
ALEX R. MASSON, INC.

9. Well No.
23

3. Address of Operator
DRAW F LINWOOD, KS. 66052

10. Field and Pool, or Wildcat
RADIUM SP6S-K.G.R.A.

4. Location of Well UNIT LETTER B LOCATED 2360 FEET FROM THE EAST LINE
AND 369 FEET FROM THE N LINE OF SEC. 10 TWP. 21 S RGE. 1W NMPM

12. County
Dona Ana

21. Elevations (Show whether DF, RT, etc.)	21A. Kind & Status Plug. Bond	19. Proposed Depth 150'	19A. Formation	20. Rotary or C.T. ROTARY	22. Approx. Date Work will start 4/22/87
--	-------------------------------	----------------------------	----------------	------------------------------	---

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
17 1/2"	12 3/4"	25.22	40'	32	SURFACE

* A MINIMUM OF 20' SURFACE CASING, OR AS MUCH AS NECESSARY
TO ENSURE CASING SHOE PENETRATES AT LEAST 2' OF
RYHOLITE.

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 Bruce A. Fitzgerald Title OPERATOR Date 4/15/87

APPROVED BY Ry E Johnson TITLE DISTRICT SUPERVISOR DATE 4-22-87
(This space for State Use)
CONDITIONS OF APPROVAL, IF ANY:

GEOHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

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

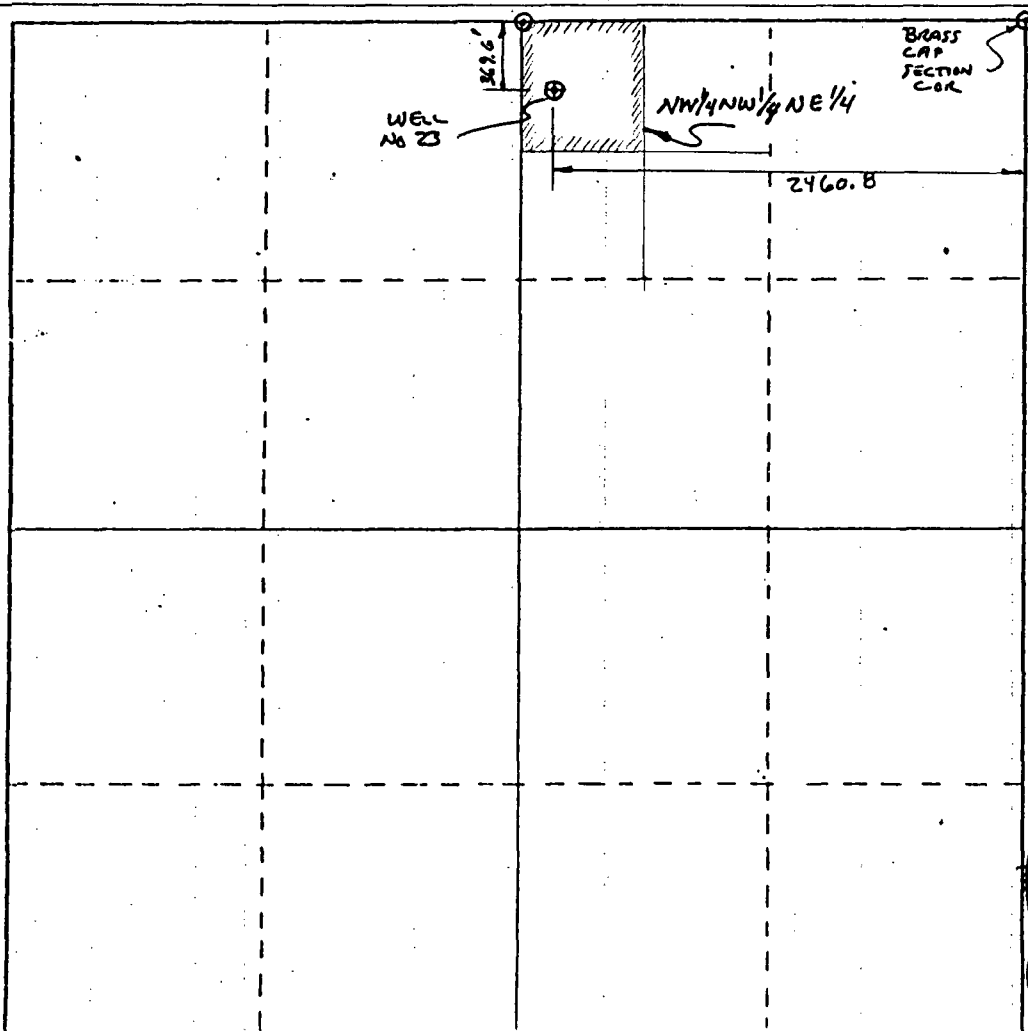
Operator ALEX R. MASSON, INC.		Lease		Well No. 23	
Unit Letter	Section 10	Township T21S	Range R1W	County DONA ANA	
Actual Footage Location of Well: 2460.8 feet from the EAST line and 369.6 feet from the NORTH line					
Ground Level Elev. 4000	Producing Formation		Pool RADIUM SPRINGS	Dedicated Acreage: 10 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 Division.



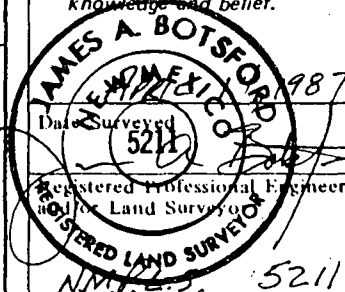
CERTIFICATION

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

BRUCE FITZGERALD

Name
OPERATOR
Position
ALEX R. MASSON, INC.
Company
4/15/87
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.

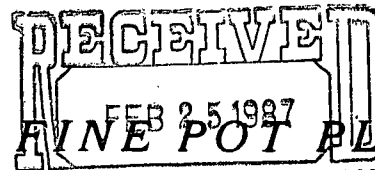


Certificate No.

Alex. R.

MASSON

INC.



OIL CONSERVATION DIVISION

SANTA FE

913/ 723-3222

Drawer F

Linwood, Kansas 66052

2/22/87

MR. ROY JOHNSON

O.C.D

DEAR ROY,

I APOLOGIZE FOR GETTING THESE FORMS TO YOU
SO LATE. HOPEFULLY, THEY ARE COMPLETED CORRECTED,
IF NOT, PLEASE CONTACT ME : 523 - 7367

THANKS,

BRUCE FITZGERALD



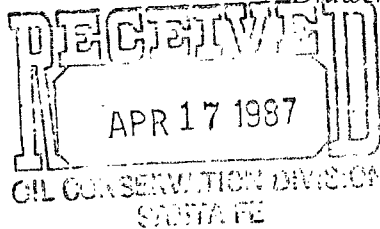
FLOWERING PLANTS
DECORATIVE FOLIAGE PLANTS
PLANT CARE ACCESSORIES

913 / 723-3222

Drawer F

Linwood, Kansas 66052

4/14/87



MR. BOY JOHNSON
OIL CONSERVATION DIVISION
LAND OFFICE BLDG.
SANTA FE, N.M. 87501

MR. JOHNSON,

FURTHER TO OUR TELEPHONE CONVERSATION, PLEASE FIND ENCLOSED,
FORMS, G-101 AND G-102 FOR YOUR APPROVAL.

WE WILL BE DESIGNATING THIS NEW WELL # 23, AND IT
WILL BE DRILLED ABOUT 10 FEET FROM WELL # 21.

I WILL BE IN TOUCH WITH YOU SOON,

KIND REGARDS,

BRUCE FITZGERALD

P.S. WE NOW HAVE AN ADDRESS IN RADIIUM SPRINGS:

RADIIUM SPRINGS FARMS
BOX 20
RADIIUM SPRINGS, NEW MEXICO
86054

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form G-103
Adopted 10-1-74
Revised 10-1-78

NO. OF COPIES RECEIVED		
DISTRIBUTION		
File		
N. M. B. M.		
U. S. G. S.		
Operator		
Land Office		

SUNDRY NOTICES AND REPORTS
ON
GEOTHERMAL RESOURCES WELLS

5. 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

N/A

2. Name of Operator
Alex R Masson Inc.

8. Farm or Lease Name

MASSON

3. Address of Operator
DRAVER F LINWOOD KS 66052

9. Well No.

24

4. Location of Well
Unit Letter C, 2486.5 Feet From The WEST Line and 175.2 Feet From
NORTH
The ~~MASSON~~ Line, Section 10 Township T21S Range R1W NMPM.

10. Field and Pool, or Wildcat
RADIAN SR. KGRA

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

4063

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 ☐

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.

Dry Hole Plugged and ABANDON

0-10' Cement Slurry

10-285 Ryolite CLAY

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

SIGNED Brian Fitzgerald

TITLE OPERATOR

DATE 10-15-89

APPROVED BY Ry Johnson

TITLE DISTRICT SUPERVISOR

DATE 11-29-96

CONDITIONS OF APPROVAL, IF ANY:

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form G-105
Adopted 10-1-74
Revised 10-1-78

GEOTHERMAL RESOURCES WELL LOG

Operator Alex R. Masson Inc.
 Address Drawer F Linwood KS 66052
 Reservoir Radium Springs
 Lease Name _____ Well No. 24 Unit Letter C
 Location: 2486.5 feet from the West line and _____
175.2 feet from the NORTH line Section 10
 Township T21S Range R1W County Dona Ana

FORMATIONS PENETRATED BY WELL

DEPTH TO		Thickness	Drilled or Cored	Recovery	DESCRIPTION
Top of Formation	Bottom of Formation				
0	4	4			Rhyolite Rubble
4	285	281			Rhyolite + CLAY

Attach Additional Sheets if Necessary

This form must be accompanied by copies of electric logs, directional surveys, physical or chemical logs, water analyses, tests, and temperature surveys (See Rule 205).

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 Bruce A. Fitzgerald Position G. Mgr. Date 11/19/96

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form G-106
Adopted 10-1-74
Revised 10-1-78

GEOTHERMAL RESOURCES WELL SUMMARY REPORT

Operator Alex R. Masson Inc. Address Drawer F Linwood KS 66052
 Lease Name _____ Well No. 24
 Unit Letter C Sec. 10 Twp. T21S Rge R1W
 Reservoir Radium Springs County Dona Ana

Commenced drilling 10-2-89

GEOLOGICAL MARKERS

DEPTH

Completed drilling 10-3-89Total depth 285 Plugged depth 10'

Junk _____

Commenced producing _____

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
</											

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
	NONE									

PERFORATED CASING

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

Was analysis of effluent made? _____ Electrical log depths _____ Temperature log depths _____

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 Bruce A. Fitzgerald Position G. Mgr Date 11/14/96

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form G-101
Adopted 10-1-74
Revised 10-1-78

NO. OF COPIES RECEIVED	
DISTRIBUTION	
TO	
N.M.D.M.	
U.S.C.S.	
Operator	
and Office	

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

5. Indicate type of lease

STATE 1 FEL

5.1 State 1 FEL

12. Type of Work Drill ☒ Deepen ☐ Plug Back ☐

13. Type of Well Geothermal Producer ☐ Temp Observation ☐
Low-Temp Thermal ☒ Injection/Disposal ☐

2. Name of Operator
ALAN R. MASSON, INC.

3. Address of Operator
DRAWER F LINWOOD, KANST 66052

4. Location of Well UNIT LETTER A LOCATED 175' FEET FROM THE N LINE

2486 FEET FROM THE W LINE OF SEC. 21 S RGE. 1 W NMPM

7. Unit A N/A

8. Farm or Lease Name
MASSON

9. Well No
24

10. Field or Pool or Wildcat
RADIUM SPRING, K.G. RA

12. County
DONA ANA

1. Elevation (Show whether DP, RT, etc.)
4063 ft

21A. Kind & Status Plug, Bond

19. Proposed Depth
300'

19A. Formation

20. Rotary or C
ROTARY

21B. Drilling Contractor
LAL JON

22. Approx. Date of work well start
8/1/90

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
<u>17 1/2"</u>	<u>12 3/4"</u>	<u>25.22</u>	<u>40'</u>	<u>32</u>	<u>SURFACE</u>

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 prevention program, if any.

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

Alan R. Masson Title OPERATOR

Date 7/25/90

(This space for State Use)

APPROVED BY [Signature] TITLE DISTRICT SUPERVISOR

DATE 9-14-90

CONDITIONS OF APPROVAL, IF ANY.

GEOHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

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

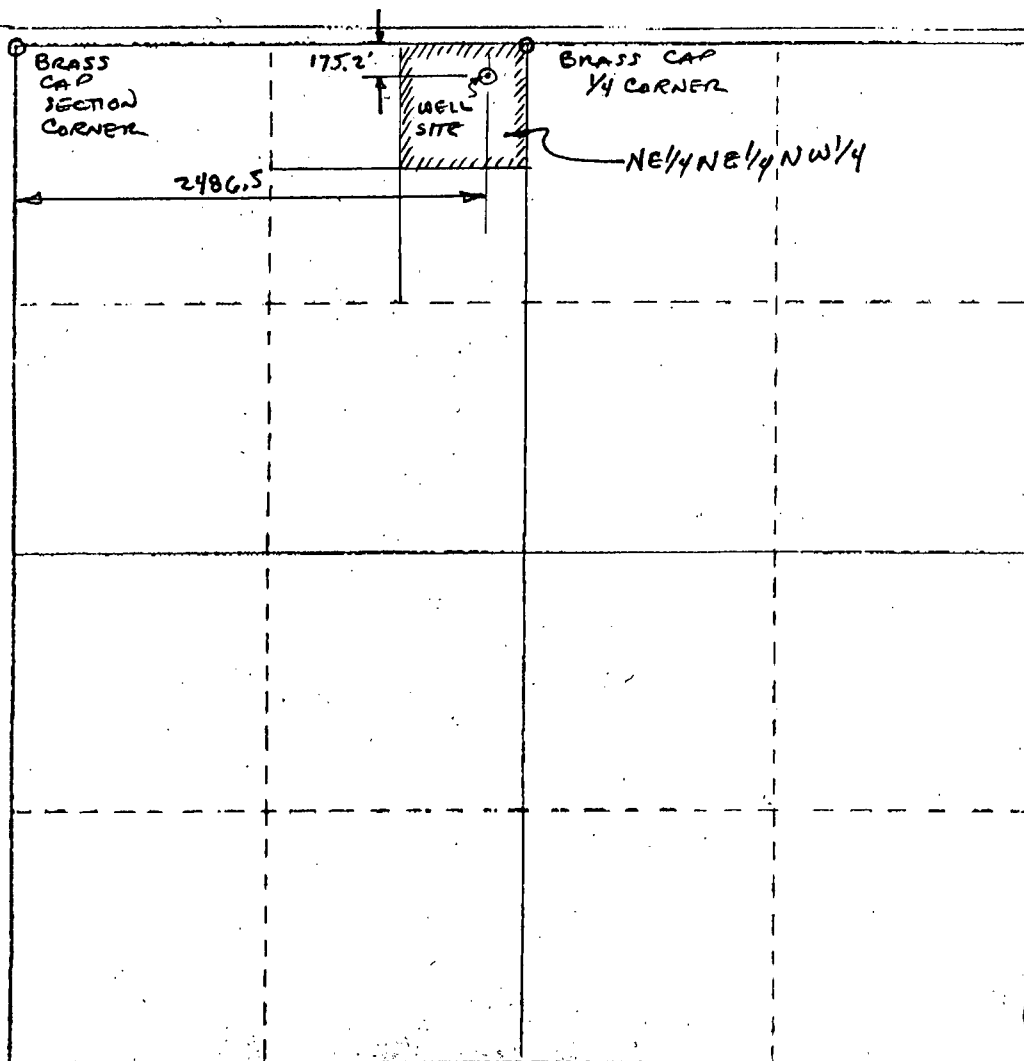
Operator ALEX R. MASSON, INC.		Lease		Well No. 24	
Unit Letter	Section 10	Township T21S	Range R1W	County DONA ANA	
Actual Footage Location of Well: 2486.5 feet from the WEST line and 175.2 feet from the NORTH line					
Ground Level Elev. 4063	Producing Formation		Pool RADIUM SPRINGS	Dedicated Acreage 10 Acres	

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 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 Division.



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 _____

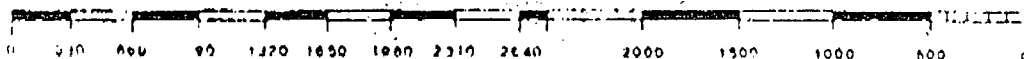
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed _____

Registered Professional Engineer and/or Land Surveyor

NMPLS

Certificate No. _____



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form G-103
Adopted 10-1-74
Revised 10-1-78

NO. OF COPIES RECEIVED	
DISTRIBUTION	
File	
N. M. B. M.	
U. S. G. S.	
Operator	
Land Office	

SUNDRY NOTICES AND REPORTS
ON
GEOTHERMAL RESOURCES WELLS

5. Indicate Type of Lease	
State <input type="checkbox"/>	Fee <input checked="" type="checkbox"/>
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 type="checkbox"/>		7. Unit Agreement Name	
		Low-Temp Thermal <input checked="" type="checkbox"/>		Injection/Disposal <input type="checkbox"/>		N/A	
2. Name of Operator							
ALEX R. MASSON, INC.							
3. Address of Operator							
DRAWER F. LINWOOD, KS 66052							
4. Location of Well							
Unit Letter <u>A</u> <u>2610</u> Feet From The <u>WEST</u> Line and <u>76.1</u> Feet From							
The <u>NORTH</u> Line, Section <u>10</u> Township <u>T21S</u> Range <u>R1W</u> NMPM.							
10. Field and Pool, or Wildcat							
RADIUM SPRGS. K.G.R.A.							
15. Elevation (Show whether DF, RT, GR, etc.)							
4065							
12. County							
DONA ANA							

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK <input checked="" type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>

SUBSEQUENT REPORT OF:

REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG & ABANDONMENT <input type="checkbox"/>
CASING TEST AND CEMENT JOB <input type="checkbox"/>	OTHER <input type="checkbox"/>

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.

WE PROPOSE TO WIDEN THE DIAMETER AND DEEPEN THE HOLE.
 ORIGINAL DIA. 8.75" DEPTH 120'
 PROPOSED DIA 12.75" DEPTH 200'

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

SIGNED Bruce A. Fitzgerald TITLE OPERATOR DATE 2/10/93

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

FEB-10-93 WED 13:42

505 524 1791

P.03

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

OIL CONSERVATION DIVISION
RECEIVED

Form G-103
Adopted 10-1-74
Revised 10-1-78

NO. OF COPIES RECEIVED	
DISTRIBUTION	
File	
N. M. B. M.	
U. S. G. S.	
Operator	
Land Office	

SUNDRY NOTICES AND REPORTS
ON
GEOTHERMAL RESOURCES WELLS

'93 FEB 15 AM 8 56

5. Indicate Type of Lease	
State <input type="checkbox"/>	Fee <input checked="" type="checkbox"/>
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 type="checkbox"/> Low-Temp Thermal <input checked="" type="checkbox"/> Injection/Disposal <input type="checkbox"/>		7. Unit Agreement Name N/A
2. Name of Operator ALEX R. MASSON, INC.		8. Farm or Lease Name MASSON
3. Address of Operator DRAWER F. LINWOOD, KS 66052		9. Well No. 25
4. Location of Well Unit Letter <u>A 2610</u> Feet From The <u>WEST</u> Line and <u>76.1</u> Feet From The <u>NORTH</u> Line, Section <u>10</u> Township <u>T21S</u> Range <u>R1W</u> NMPM.		10. Field and Pool, or Wildcat RADIUM SPGS. K.G.R.A.
15. Elevation (Show whether DF, RT, GR, etc.) 4065		12. County DONA ANA

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input checked="" 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 <input type="checkbox"/>	

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.

WE PROPOSE TO WIDEN THE DIAMETER AND DEEPEN THE HOLE.
ORIGINAL DIA. 8.75" DEPTH 120'
PROPOSED DIA 12.75" DEPTH 200'

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

SIGNED Bruce A. Fitzgerald TITLE OPERATOR DATE 2/10/93

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form G-101
Adopted 10-1-74
Revised 10-1-78

NO. OF COPIES RECEIVED	
DISTRIBUTION	
TO B.M.	
U.S.G.S.	
Operator	
and Office	

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

1a. Type of Work: Drill ☒ Deepen ☐ Plug Back ☐

1b. Type of Well: Geothermal Producer ☐ Temp Observation ☐
Low-Temp Thermal ☒ Injection/Disposal ☐

1. Name of Operator: ALTA R. MASSON, INC.

2. Address of Operator: DRAWER F LINWOOD, KANSAS 66052

3. Location of Well: UNIT LETTER A LOCATED 2610 FEET FROM THE WEST LINE.

5. Indicate Type of Lease: 100%

6. STATE: NE

6A. State of Lease: NE

7. Unit No.: N/A

8. Form of Lease: MASSON

9. Well No.: 25

10. Field: RADIUM SPGS, K612A

12. County: DONA ANA

4. 76.1 FEET FROM THE N LINE OF SEC. 10 TWP. T21S RGE. R1W NMPM

19. Proposed Depth: 3001

19A. Formation: TOTALY

20. Visitation (Show whether DP, RT, etc.): 40651

21A. Kind & Status Plug, Bond: 40651

21B. Drilling Contractor: W2-JON

22. Date: 8/15/90

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	REMARKS
17 1/2"	12 3/4"	25.22	40'	32	SURFILL

ABOVE SPACE DESCRIBE PROPOSED PROGRAM. If proposal is to deepen or plug back, give data on present productive zone & produce flow & pressure.
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.

By Bruce A. Fitzgibbon Title OPERATOR Date 7/25/90

(This space for State Use)

APPROVED BY [Signature] TITLE DISTRICT SUPERVISOR DATE 9-14-90

GEOHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

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

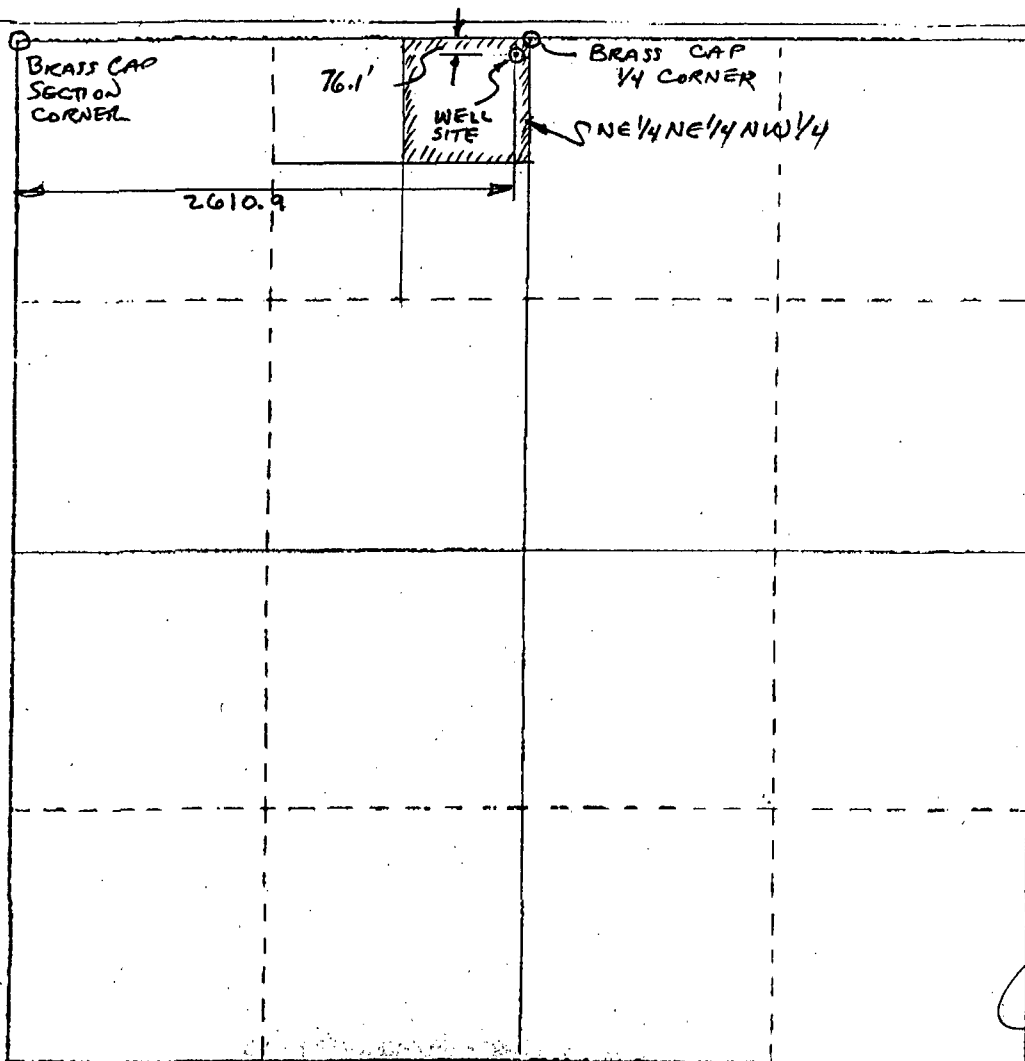
Operator ALEX R. MASSON, INC.		Lease		Well No. 25	
Unit Letter	Section 10	Township T21S	Range R1W	County DONA ANA	
Actual Footage Location of Well:					
2610.9 feet from the WEST line and		76.1 feet from the NORTH line			
Ground Level Elev. 4065	Producing Formation	Pool RADIUM SPRINGS	Dedicated Acreage 10 Acres		

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 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 Division.



CERTIFICATION

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

Name _____

Position _____

Company _____

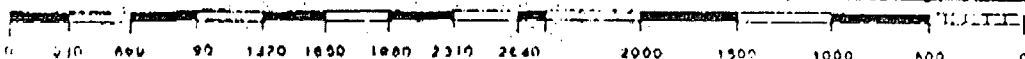
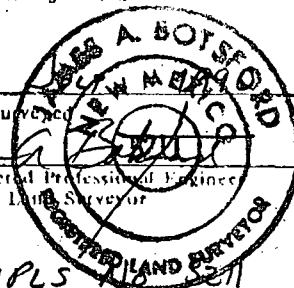
Date _____

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.

Date Surveyed _____

Registered Professional Engineer and/or Land Surveyor

Certificate No. _____



CERTIFICATE OF COMPLIANCE
AND AUTHORIZATION TO PRODUCE
GEOTHERMAL RESOURCES

OWNER OR OPERATOR

Name Alex R Masson Inc.
Address Drawer F Linwood KS 66052

TYPE OF WELL

Geothermal Producer ☐ Low-Temperature Thermal ☒ Injection/Disposal ☐

REASON FOR FILING

New Well ☒ Recompletion ☐
Change in Ownership ☐ Designation of Purchaser ☐
Other (Please Explain) ☐

DESCRIPTION OF WELL

Lease Name _____ Well No. 26 Name of Reservoir Radium Springs
Kind of Lease _____ Lease Number _____
(Fee, Fed. or State)

LOCATION

Unit Letter B; 2385.3 feet from the EAST line and
176.5 feet from the NORTH line of
Section 10 Township T21S Range R1W
County Dona Ana

TYPE OF PRODUCT

Dry _____ Steam and Low Temp. _____
Steam _____ Water _____ Thermal Water _____

DESIGNATION OF PURCHASER OF PRODUCT

Name of Purchaser Alex R Masson Inc.
Address of Purchaser Drawer F Linwood KS 66052
Product Will Be Used For Green House Heating

CERTIFICATE OF COMPLIANCE

I hereby certify that all rules and regulations concerning geothermal resources wells in the State of New Mexico, as promulgated by the Oil Conservation Division of New Mexico, have been complied with, with respect to the subject well, and that the information given above is true and complete to the best of my knowledge and belief.

Signed Bruce A Fitzgerald Position G. Mgr. Date 11/19/96
Approved Ry Johnson District Supervisor Date 11-21-96

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form G-105
Adopted 10-1-74
Revised 10-1-78

GEOTHERMAL RESOURCES WELL LOG

Operator Alex R Masson Inc.
 Address Drawer F Linwood KS 66052
 Reservoir Radium Springs
 Lease Name _____ Well No. 26 Unit Letter B
 Location: 2385.3 feet from the EAST line and
176.5 feet from the NORTH line Section 10
 Township T21S Range R1W County Dona Ana

FORMATIONS PENETRATED BY WELL

DEPTH TO		Thickness	Drilled or Cored	Recovery	DESCRIPTION
Top of Formation	Bottom of Formation				
0	10	10			Rhyolite Rubble
10	120	110			Fractured Rhyolite

Attach Additional Sheets if Necessary

This form must be accompanied by copies of electric logs, directional surveys, physical or chemical logs, water analyses, tests, and temperature surveys (See Rule 205).

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 Brian A Fitzgerald Position G. Mgr. Date 11/19/96

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form G-106
Adopted 10-1-74
Revised 10-1-78

GEOTHERMAL RESOURCES WELL SUMMARY REPORT

Operator Alex R. Masson Inc Address DRAWER F LINWOOD KS 66052
 Lease Name _____ Well No. 26
 Unit Letter B Sec. 10 Twp. 121S Rge. RIW
 Reservoir RADIM SPRINGS County DONA ANA

Commenced drilling 10-4-90

GEOLOGICAL MARKERS

DEPTH

Completed drilling 10-26-90Total depth 120 Plugged depth _____Junk None

Commenced producing _____ (Date)

Geologic age at total depth: _____

Date	Static test		Production Test Data									
	Shut-in well head		Total Mass Flow Data					Separator Data				
	Temp. °F	Pres. Psig.	Lbs/lhr	Temp. °F	Pres. Psig.	Enthalpy	Orifice	Water cuft/lhr	Steam Lbs/lhr	Pres. Psig.	Temp. °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 of Cement	Top of Cement	Cement Top Determined By
18	12 3/4	188		new	seamless	none		24	surface	visually

PERFORATED CASING

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

Was analysis of effluent made? _____ Electrical log depths _____ Temperature log depths _____

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 Brian A. Fitzgerald Position G. Mgr Date 11/15/92

GEOHERMAL RESOURCES WELL HISTORY

Operator Alex R Masson Inc. Address Drawer F Linwood KS 66052
Lease Name _____ Well No. 26
Unit Letter B Sec. 10 Twp. T21 S Rge. R1 N
Reservoir Radium Springs 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

10-4-90 Commenced Drilling

10-26-90 Completed Drilling

CASING 12 3/4" .188 WALL 20' Deep NO SHOE 24 Cu. FT
Cement Pump

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 Bruce A. Fitzgerald Position G. Mgr. Date 11/15/96

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form G-101
Adopted 10-1-74
Revised 10-1-78

NO. OF COPIES RECEIVED	
DISTRIBUTION	
File	
N.M.B.M.	
U.S.G.S.	
Operator	
Land Office	

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 ☒ Deepen ☐ Plug Back ☐
b. Type of Well Geothermal Producer ☐ Temp Observation ☐
Low-Temp Thermal ☒ Injection/Disposal ☐

7. Unit Agreement Name
N/A
8. Farm or Lease Name
MASSON

2. Name of Operator
ALEX R. MASSON, INC.

9. Well No.
26

3. Address of Operator
DRAWER F LINWOOD KINGS 66052

10. Field and Pool, or Wildcat
RADIUM SPRINGS K.G.R.

4. Location of Well UNIT LETTER A LOCATED 2385.3 FEET FROM THE EAST LINE
AND 176.5' FEET FROM THE NORTH LINE OF SEC. 10 TWP. 21 S RGE. 1W NMPM

12. County
DONA ANA

21. Elevations (Show whether DF, RT, etc.) 4017.5	21A. Kind & Status Plug. Bond	21B. Drilling Contractor LAR-JON	22. Approx. Date Work will start 9/5/90
--	-------------------------------	-------------------------------------	--

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
17 1/2"	12 3/4"	25.22	40'	32	SURFACE

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 Bm A Fitzgerald Title OPERATOR Date 8/28/90

(This space for State Use)

APPROVED BY [Signature] TITLE District II Supervisor DATE 3-12-91
CONDITIONS OF APPROVAL, IF ANY:

GEOHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

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

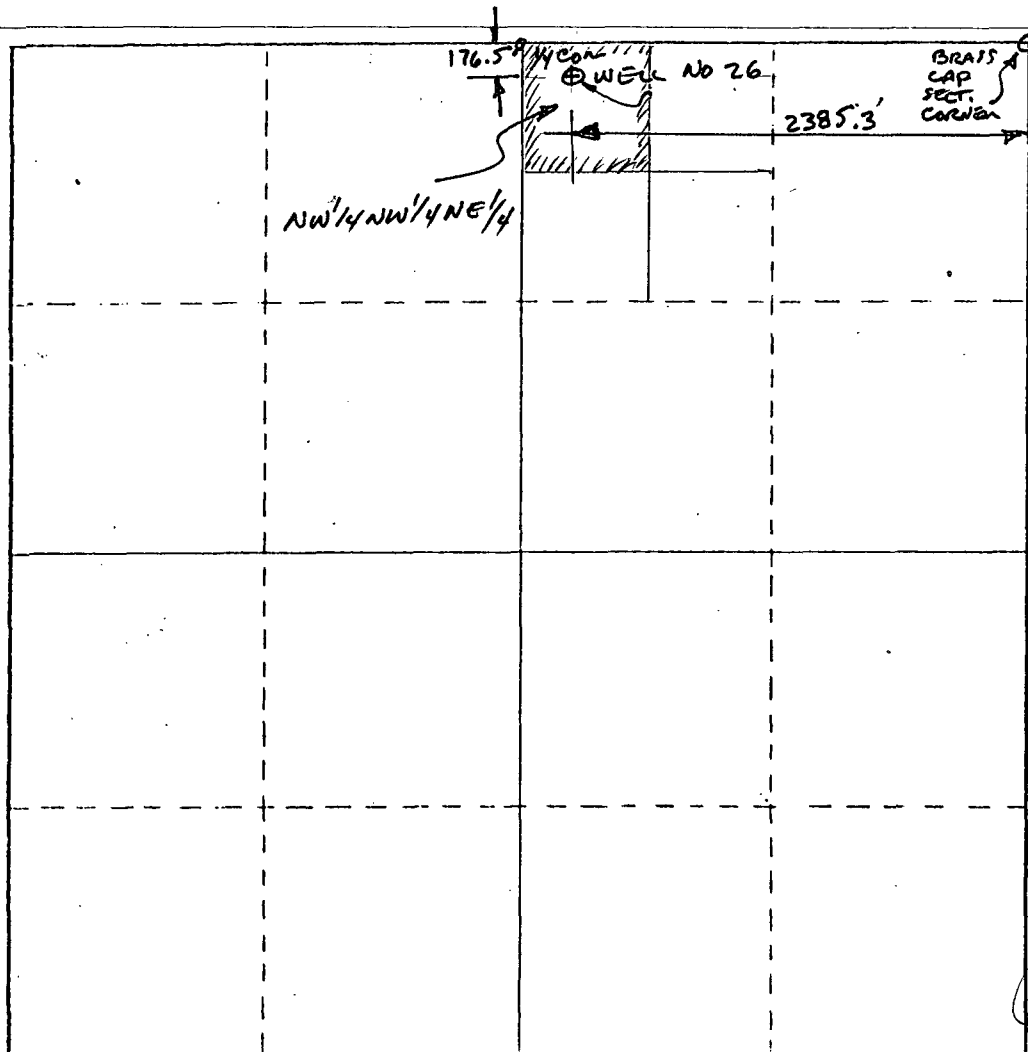
Operator ALEX R. MASSON, Inc.		Lease		Well No. 26	
Unit Letter	Section 10	Township T21S	Range R1W	County DONA ANA	
Actual Footage Location of Well: 2385.3 feet from the EAST line and 176.5 feet from the NORTH line					
Ground Level Elev. 4017±	Producing Formation		Pool Radium Springs	Dedicated Acreage: 10 Acres	

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 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 Division.



CERTIFICATION

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

Name

Position

Company

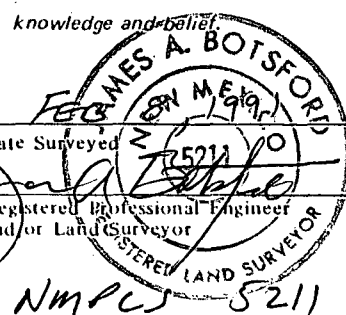
Date

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.

Date Surveyed

Registered Professional Engineer and/or Land Surveyor

Certificate No.



METER INFORMATION FORM

ATTN: MR. JOHNSON

FILE NO.: LRG 4489

NAME: GEOTHERMAL # 27 (DISP.)
MASSON

THIS PERMIT REQUIRES THAT A WELL METER BE INSTALLED PRIOR TO APPROPRIATION OF WATER.

PLEASE COMPLETE METER INFORMATION, SIGN, DATE AND RETURN TO THE STATE ENGINEER OFFICE AS SOON AS THE METER IS INSTALLED. THE METER INSTALLATION WILL THEN BE INSPECTED BY PERSONNEL FROM THE STATE ENGINEER OFFICE.

DATE INSTALLED:	10-08-91
METER TYPE:	TURBINE FM 400-R
METER SIZE:	6"
SERIAL NO.:	11220 WELL #27 - DISP.)
REGISTER:	0000006 (BEGINNING)
MULTIPLIER:	X 1000
UNITS:	GALLONS

BY: MARTHA REY

DATE: 10-08-91

#27

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form G-105
Adopted 10-1-74
Revised 10-1-78

GEOHERMAL RESOURCES WELL LOG

Operator Alex R Masson Inc
Address Drawel F Linwood KS 66052
Reservoir Radium Springs
Lease Name _____ Well No. 27 Unit Letter B
Location: 1809.3 feet from the EAST line and
799.4 feet from the NORTH line Section 10
Township T21S Range R1W County Dona Ana

FORMATIONS PENETRATED BY WELL

DEPTH TO		Thickness	Drilled or Cored	Recovery	DESCRIPTION
Top of Formation	Bottom of Formation				
0	3	3			SAND & SILT
3	12	9			Rhyolite Rubble
12	80	68			Fractured Rhyolite

Attach Additional Sheets if Necessary

This form must be accompanied by copies of electric logs, directional surveys, physical or chemical logs, water analyses, tests, and temperature surveys (See Rule 205).

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 Bruce A. Elzy Position G.Mgr. Date 11/19/96

OIL CONSERVATION DIVISION

P. O. BOX 2088

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

Form G-104
Adopted 10-1-74
Revised 10-1-78CERTIFICATE OF COMPLIANCE
AND AUTHORIZATION TO PRODUCE
GEOTHERMAL RESOURCES

OWNER OR OPERATOR

Name Alex R. Masson Inc.
Address Drawer F Linwood KS 66052

TYPE OF WELL

Geothermal Producer ☐Low-Temperature Thermal ☒Injection/Disposal ☐

REASON FOR FILING

New Well ☒ Recompletion ☐Change in Ownership ☐ Designation of Purchaser ☐Other (Please Explain) ☐

DESCRIPTION OF WELL

Lease _____ Well No. 27 Name of Reservoir Radium SpringsKind of Lease _____ Lease Number _____
(Fee, Fed. or State)

LOCATION

Unit _____
Letter B; 1809.3 feet from the EAST line and
799.4 feet from the NORTH line ofSection 10 Township T21S Range R1WCounty Donna Ana

TYPE OF PRODUCT

Dry _____ Steam and _____ Low Temp. _____
Steam _____ Water _____ Thermal Water ☒

DESIGNATION OF PURCHASER OF PRODUCT

Name of Purchaser Alex R. Masson Inc.Address of Purchaser Drawer F Linwood KS. 66052Product Will Be Used For Re-Injection of Geothermal water

CERTIFICATE OF COMPLIANCE

I hereby certify that all rules and regulations concerning geothermal resources wells in the State of New Mexico, as promulgated by the Oil Conservation Division of New Mexico, have been complied with, with respect to the subject well, and that the information given above is true and complete to the best of my knowledge and belief.

Signed Bruce A. Fitzgerald Position B. Mgr. Date 4/19/96
Approved Ry. Johnson District Supervisor 4/21-96

P. O. BOX 2088

STATE OF NEW MEXICO

• ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

Operator Alex R Masson Address Drawer F Linwood KS 66052
Lease Name _____ Well No. 27
Unit Letter B Sec. 10 Twp. 1215 Rge. R1W
Reservoir Radium Springs County Dona Ana

Commenced drilling	11-5-90			GEOLOGICAL MARKERS	DEPTH
Completed drilling	11-6-90				
Total depth	80	Plugged depth			
Junk	none				
Commenced producing	(Date)			Geologic age at total depth:	

[illegible][illegible]

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

Was analysis of effluent made? _____ Electrical log depths _____ Temperature log depths _____

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 Bruce A. Elzner Position G. Mgr. Date 11/19/96

GEOTHERMAL RESOURCES WELL HISTORY

Operator Alex R Masson Address Drewel R Linwood KS 66052
Lease Name _____ Well No. 27
Unit Letter B Sec. 10 Twp. T21S Rge. R1W
Reservoir Radium Springs 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

11-5-90 Commenced Drilling

11-6-90 Completed Drilling

CASING 6 5/8" 188 WLL 20' Deep 5 cubic Feet
Cement Pump

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 Bruce A. T. [Signature] Position G. Mgr. Date 11/16/96

APPLICATION TO PLACE WELL ON INJECTION-GEOTHERMAL RESOURCES AREA

Operator <u>Alex R Masson</u>		Address <u>Drawer F Linwood KS 66052</u>	
Lease Name	Well No. <u>27</u>	Field <u>Radium Springs</u>	County <u>Dona Ana</u>
Location Unit Letter <u>B</u> ; Well is Located <u>1809.3</u> Feet From The <u>EAST</u> Line And <u>799.4</u> Feet From The <u>NORTH</u> Line, Section <u>10</u> Township <u>T21S</u> Range <u>R1W</u> NMPM.			

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
Conductor Pipe					
Surface Casing	<u>6 5/8</u>	<u>20</u>	<u>5</u>	<u>SURFACE</u>	<u>CIRCULATION</u>
Long String	<u>N/A</u>				
Tubing	<u>N/A</u>		Name, Model and Depth of Tubing Packer		

Name of Proposed Injection Formation <u>Palm Park Formation</u>		Top of Formation <u>30</u>	Bottom of Formation <u>80</u>
Is Injection Through Tubing, Casing, or Annulus? <u>CASINGS</u>	Perforations or Open Hole? <u>open hole</u>	Proposed Interval(s) of Injection <u>30-80</u>	
Is This a New Well Drilled For Injection? <u>yes</u>	If Answer is No, For What Purpose was Well Originally Drilled?	Has Well Ever Been Perforated in Any Zone Other Than the Proposed Injection Zone? <u>NO</u>	
List All Such Perforated Intervals and Sacks of Cement used to Seal Off or Squeeze Each			
Depth of Bottom of Deepest Fresh Water Zone in This Area		Is This Injection for Purpose of Pressure Maintenance or Water Disposal? (See Rules 501 and 502) <u>WATER DISPOSAL</u>	
Anticipated Daily Injection Volume	Minimum <u>100</u>	Maximum <u>200</u>	Open or Closed Type System <u>CLOSED</u>
Is Injection to be by Gravity or Pressure? <u>GRAVITY</u>		Approx. Pressure (psi) <u>N/A</u>	
Answer Yes or No Whether the Following Waters are Mineralized to such a Degree as to be Unfit for Domestic, Stock, Irrigation, or Other General Use— <u>NO</u>		Water to be Injected <u>MODERATE MINERALIZATION</u>	Natural Water in Injection Zone <u>SAME</u>
Are Water Analyses Attached? <u>NO</u>			
Name and Address of Surface Owner (or Lessee, if State or Federal Land) <u>Alex R Masson Inc Drawer F Linwood, KS 66052</u>			
List Names and Addresses of all Operators Within One-Half (1/2) Mile of This Injection Well			
Have Copies of this Application Been Sent to Each Operator Within One-Half Mile of this Well? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
Are the Following Items Attached to this Application (see Rule 503)		Plat of Area Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Electrical Log Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
		Diagrammatic Sketch of Well Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

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

B. A. Fitzgerald
(Signature)

G. M. G.
(Title)

11/19/46
(Date)

NOTE: Should waivers from all operators within one-half mile of the proposed injection well not accompany this application, the New Mexico Oil Conservation Division will hold the application for a period of 20 days from the date of receipt by the Division's Santa Fe office. If at the end of the 20-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 503.

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form G-101
Adopted 10-1-74
Revised 10-1-78

NO. OF COPIES RECEIVED	
DISTRIBUTION	
File	
N.M.B.M.	
U.S.G.S.	
Operator	
Land Office	

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 ☒ Deepen ☐ Plug Back ☐
b. Type of Well Geothermal Producer ☐ Temp Observation ☐
Low-Temp Thermal ☒ Injection/Disposal ☐

7. Unit Agreement Name
N/A
8. Farm or Lease Name
MASSON

2. Name of Operator
ALTEX R MASSON, INC.

9. Well No.
27

3. Address of Operator
DRAWER F LINWOOD, KANSAS 66052

10. Field and Pool, or Wildcat
RADIUM SPGS K.G.R.

4. Location of Well UNIT LETTER A LOCATED 1809.3 FEET FROM THE EAST LINE
AND 799.4 FEET FROM THE N LINE OF SEC. 10 TWP. 21 S RGE. 12 W NMPM

12. County
DONA ANA

19. Proposed Depth 150'
19A. Formation
20. Rotary or C.T. ROTARY

21. Elevations (Show whether DF, RT, etc.) 3990
21A. Kind & Status Plug. Bond
21B. Drilling Contractor LAR-TON
22. Approx. Date Work will start 9/1/90

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
17 1/2"	12 3/4"	25.22	40'	32	SURFACE

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 Bruce A. Fitzgerald Title OPERATOR Date 3/12/91

(This space for State Use)
APPROVED BY [Signature] TITLE District II Supervisor DATE 3-12-91
CONDITIONS OF APPROVAL, IF ANY:

GEOTHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

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

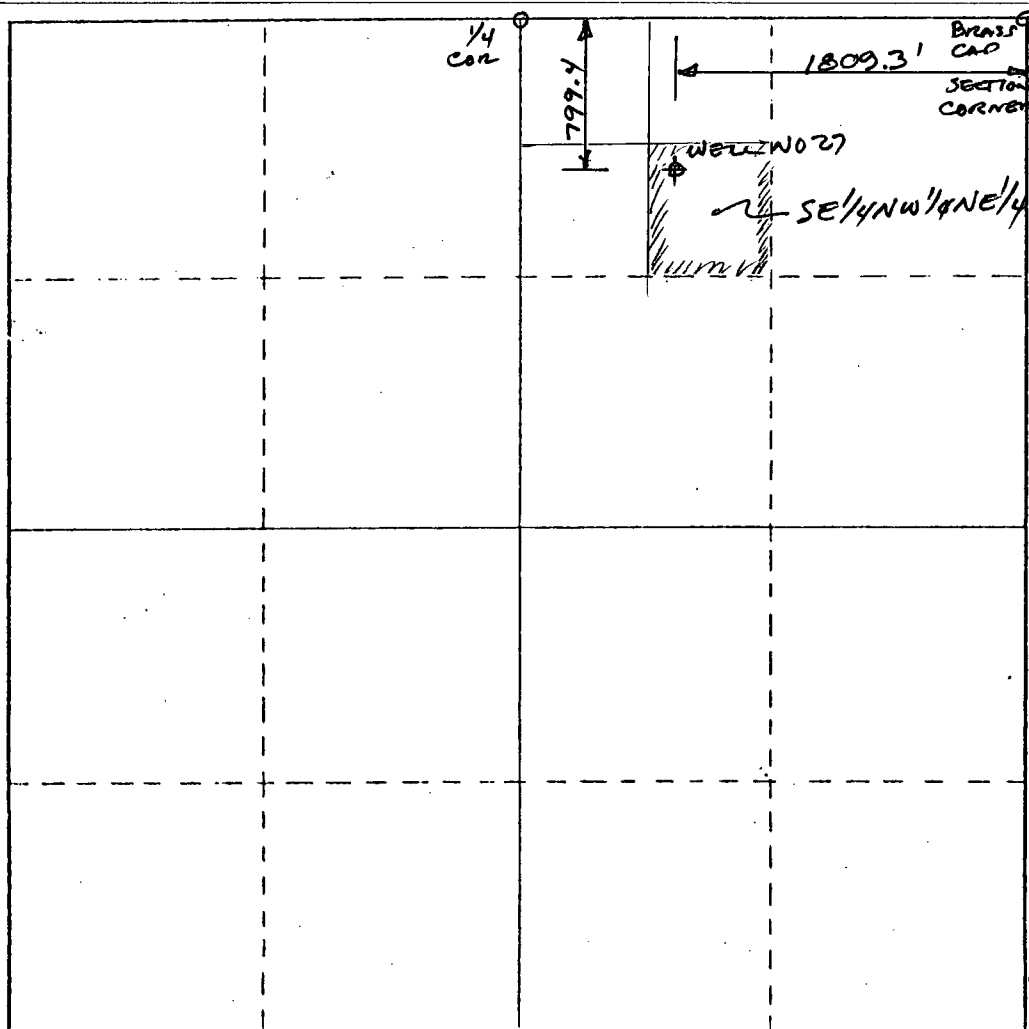
Operator ALEX R. MASSON, Inc.		Lease		Well No. 27	
Unit Letter	Section 10	Township T21S	Range R1W	County DONA ANA	
Actual Footage Location of Well: 1809.3 feet from the EAST line and 799.4 feet from the NORTH line					
Ground Level Elev. 3990	Producing Formation		Pool RADIUM SPRINGS	Dedicated Acreage: 10 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 Division.



CERTIFICATION

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

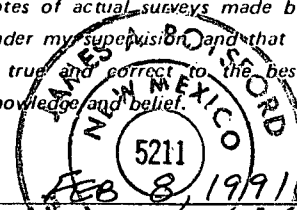
Name

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.

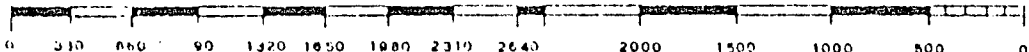


Date Surveyed

Registered Professional Engineer and/or Land Surveyor

NMPLS # 5211

Certificate No.



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form G-103
Adopted 10-1-74
Revised 10-1-78

NO. OF COPIES RECEIVED		
DISTRIBUTION		
File		
N. M. B. M.		
U. S. G. S.		
Operator		
Land Office		

SUNDRY NOTICES AND REPORTS
ON
GEOTHERMAL RESOURCES WELLS

5. Indicate Type of Lease	
State <input type="checkbox"/>	Fee <input checked="" type="checkbox"/>
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 type="checkbox"/> Low-Temp Thermal <input checked="" type="checkbox"/> Injection/Disposal <input type="checkbox"/>		7. Unit Agreement Name N/A
2. Name of Operator ALEX R. MASSON, INC.		8. Farm or Lease Name BAILEY
3. Address of Operator DRAWER F. LINWOOD, KS 66052		9. Well No. 28 28
4. Location of Well Unit Letter B 2450.8 Feet From The EAST Line and 369.6 Feet From The NORTH Line, Section 10 Township 21S Range 1W NMPM.		10. Field and Pool, or Wildcat RADIUM SPGS. K.G.R.A.
15. Elevation (Show whether DF, RT, GR, etc.) 4005 FT		12. County DONA ANA

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	
PULL OR ALTER CASING <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
OTHER CHANGE LOCATION <input checked="" type="checkbox"/>	

SUBSEQUENT REPORT OF:

REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG & ABANDONMENT <input type="checkbox"/>
CASING TEST AND CEMENT JOB <input type="checkbox"/>	
OTHER <input type="checkbox"/>	

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.

ON 1-09-93 WE COMPLETED DRILLING AN EXPLORATORY WELL APPROXIMATELY 100 FEET NORTH OF WELL #21. THIS WELL SHOWS SIGNS OF BEING A GOOD PRODUCTION WELL. OUR INTENTION IS TO MOVE WELL #21 TO THIS LOCATION AND UTILIZE IT AS A PRODUCTION WELL.

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

SIGNED Bruce A. Felt TITLE OPERATION DATE 2/10/93

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

GEOHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

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

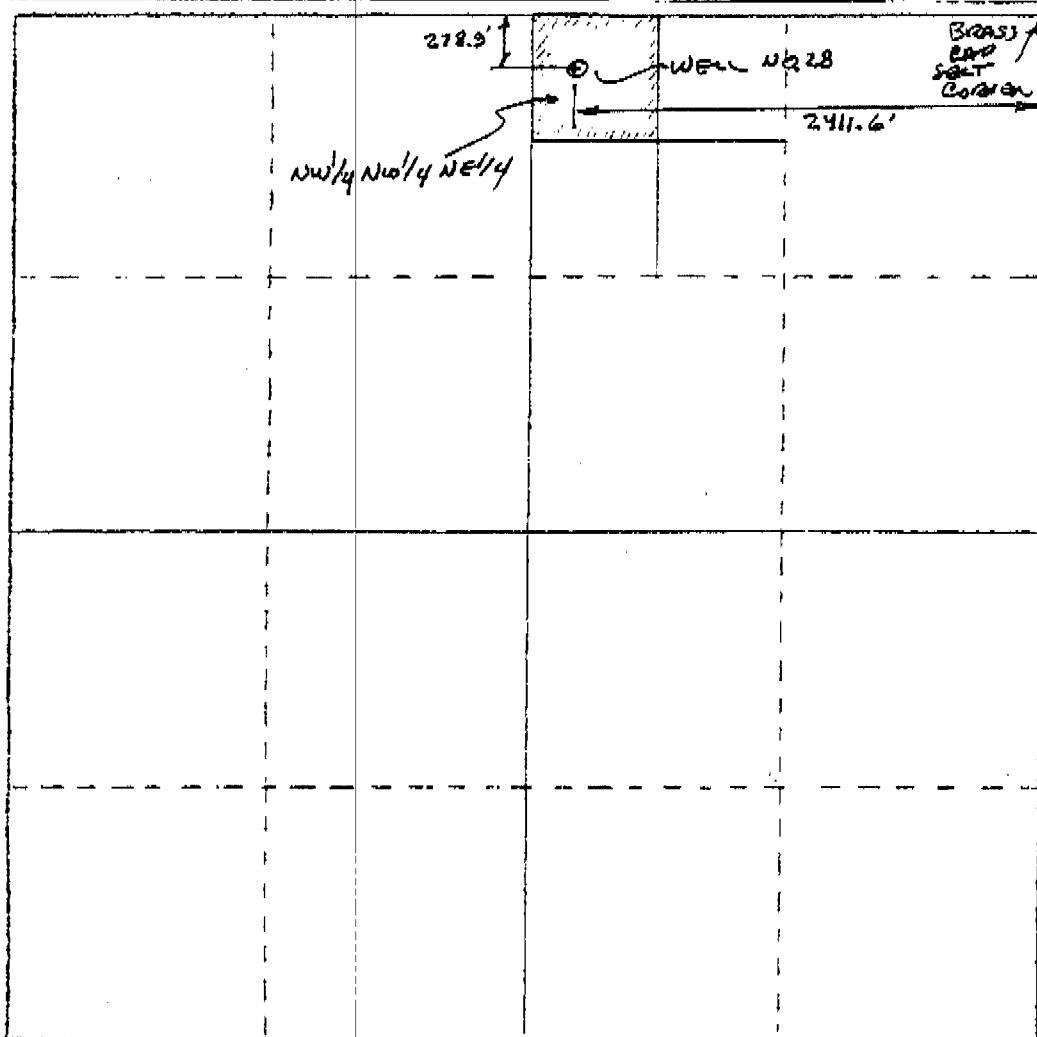
Operator ALEX R. MASSON, INC		Lease		Well No. 28	
Unit Letter	Section 10	Township TR15	Range R1W	County DONA ANA	
Actual Postage Location of Well. 2411.6 feet from the EAST line and 278.9' feet from the NORTH line					
Ground Level Elev. 4006.5	Producing Formation		Pool RADIUM SPRINGS	Dedicated Acreage 10 Acres	

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 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 Division.



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.

FEB 24 1993

Date Surveyed _____

Registered Professional Engineer and/or Land Surveyor

NM PLS #5211

Certificate No. _____

OIL CONSERVATION DIVISION

P. O. BOX 2088

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

Form G-104
Adopted 10-1-74
Revised 10-1-78CERTIFICATE OF COMPLIANCE
AND AUTHORIZATION TO PRODUCE
GEOTHERMAL RESOURCES

OWNER OR OPERATOR

Name ALEX R. MASSON INC.Address DRAWER F, LINWOOD, KANSAS 66052

TYPE OF WELL

Geothermal Producer ☐Low-Temperature Thermal ☒Injection/Disposal ☐

REASON FOR FILING

New Well ☒ Recompletion ☐Change in Ownership ☐ Designation of Purchaser ☐Other (Please Explain) ☐

DESCRIPTION OF WELL

Lease Name ALEX R. MASSON INC. Well No. 28 Name of Reservoir RADIUM SPRINGS

Kind of Lease (Fee, Fed. or State) _____ Lease Number _____

LOCATION

Unit Letter _____ ; 2411.6 feet from the EAST line and 278.9 feet from the NORTH line ofSection 10 Township T21S Range R1W

County _____

TYPE OF PRODUCT

Dry

Steam and

Low Temp.

☐

Steam

Water

Thermal Water

☒

DESIGNATION OF PURCHASER OF PRODUCT

Name of Purchaser ALEX R. MASSON INC.Address of Purchaser DRAWER F, LINWOOD, KANSAS 66052Product Will Be Used For GREEN HOUSE HEATING

CERTIFICATE OF COMPLIANCE

I hereby certify that all rules and regulations concerning geothermal resources wells in the State of New Mexico, as promulgated by the Oil Conservation Division of New Mexico, have been complied with, with respect to the subject well, and that the information given above is true and complete to the best of my knowledge and belief.

Signed B. A. Fitzgerald Position Operator Date 2/24/93

Approved _____ Position _____ Date _____

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form 6-106
Adopted 10-1-74
Revised 10-1-78

GEOTHERMAL RESOURCES WELL SUMMARY REPORT

Operator ALEX R. MASSON INC. Address DRAWER F, LINWOOD KANSAS 66052
 Lease Name ALEX R. MASSON INC. Well No. 28
 Unit Letter B Sec. 10 Twp. T215 Rge. RIW
 Reservoir RADIUM SPRINGS County DONA ANA

Commenced drilling 1-22-93 GEOLOGICAL MARKERS DEPTH
 Completed drilling 1-9-93 FRACTURED RHYOLITE 99-154
 Total depth 154' Plugged depth _____
 Junk _____
 Commenced producing _____ Geologic age at total depth: _____
 (Date)

Static test	Production Test Data										
	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

CASING RECORD (Present 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
15	140D	54.57	NEW	SEAMLESS	12'6"	2'	10	0 GR	VISUALLY

PERFORATED CASING

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

Was analysis of effluent made? NONE Electrical log depths NONE Temperature log depths NONE

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 Bruce A. Filzgerald Position OPERATOR Date 2/24/93

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTOIL CONSERVATION DIVISION
P. O. BOX 2048
SANTA FE, NEW MEXICO 87501Form G-101
Adopted 10-1-74
Revised 10-1-78

NO. OF COPIES RECEIVED	
DISTRIBUTION	
File	
N.M.B.M.	
U.S.G.S.	
Operator	
Land Office	

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"/>
5.2 State Lease No.

1a. Type of Work Drill ☒ Deepen ☐ Plug Back ☐
b. Type of Well Geothermal Producer ☐ Temp Observation ☐
Low-Temp Thermal ☒ Injection/Disposal ☐

7. Unit Agreement Name
N/A8. Farm or Lease Name
MASSON'S9. Well No.
#2810. Field and Pool, or Wildcat.
RADIUM SPRINGS KGRA2. Name of Operator
ALEX R. MASSON, INC.3. Address of Operator
DRAWER F LINWOOD KS, 660524. Location of Well UNIT LETTER _____ LOCATED 2411.6 FEET FROM THE EAST LINE
AND 278.9 FEET FROM THE NORTH LINE OF SEC. 10 TWP. T21S RGE. RIW NMPM12. County
DONA ANA

19. Proposed Depth 200 FT	19A. Formation	20. Rotary or C.T. ROTARY
21. Elevations (Show whether DP, RT, etc.)	21A. Kind & Status Plug. Bond	21B. Drilling Contractor KEN HOEY
		22. Approx. Date Work will start 12-30-92

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
15	14 OD	54.57	12' 6"	10	SURFACE

* A MINIMUM OF 20' SURFACE CASING, OR AS MUCH AS NECESSARY TO ENSURE CASING SHOE PENETRATES AT LEAST 2' OF RHYOLITE.

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 B. A. Fitzgerald Title OPERATOR Date 2/24/93
(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY: _____

is true and correct to the best of my knowledge and belief.

FEB 24 1993

Date Submitted
Registered Professional Engineer
and/or Land Surveyor

NM PLS #5211

Certificate No.

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form G-101
Adopted 10-1-74
Revised 10-1-78

NO. OF COPIES RECEIVED	
DISTRIBUTION	
File	
N.M.B.M.	
U.S.G.S.	
Operator	
Land Office	

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

5. Indicate Type of Lease
STATE ☐ FEE ☒

5.a State Lease No.

7. Unit Agreement Name

N/A

8. Farm or Lease Name

MASSON

9. Well No.

29

10. Field and Pool, or Wildcat

Radium SPR. KGRA

12. County

DONA ANA

1a. Type of Work Drill ☐ Deepen ☐ Plug Back ☐

b. Type of Well Geothermal Producer ☐ Temp Observation ☐

Low-Temp Thermal ☒ Injection/Disposal ☐

2. Name of Operator

Alex R Masson Inc.

3. Address of Operator

Drawer F Linwood KS 66052

4. Location of Well UNIT LETTER B LOCATED 67.8 FEET FROM THE NORTH LINE

AND 94.5 FEET FROM THE ^{mid}section LINE OF SEC. 10 TWP. T21S RGE. R1W NMPM

19. Proposed Depth

300'

19A. Formation

20. Rotary or C.T.

ROTARY HAMMER

21. Elevations (Show whether DF, RT, etc.)

21A. Kind & Status Plug. Bond

21B. Drilling Contractor

KD Huey

22. Approx. Date Work will start

1-1-95

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12"					

This is an exploratory well to try and locate
an ample supply of hot geothermal water
to heat a green house

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 Brian A Fitzgerald Title GMgr

Date 11/19/96

(This space for State Use)

APPROVED BY

[Signature]

TITLE

DISTRICT SUPERVISOR

DATE

11-21-96

CONDITIONS OF APPROVAL, IF ANY:

GEOHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

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

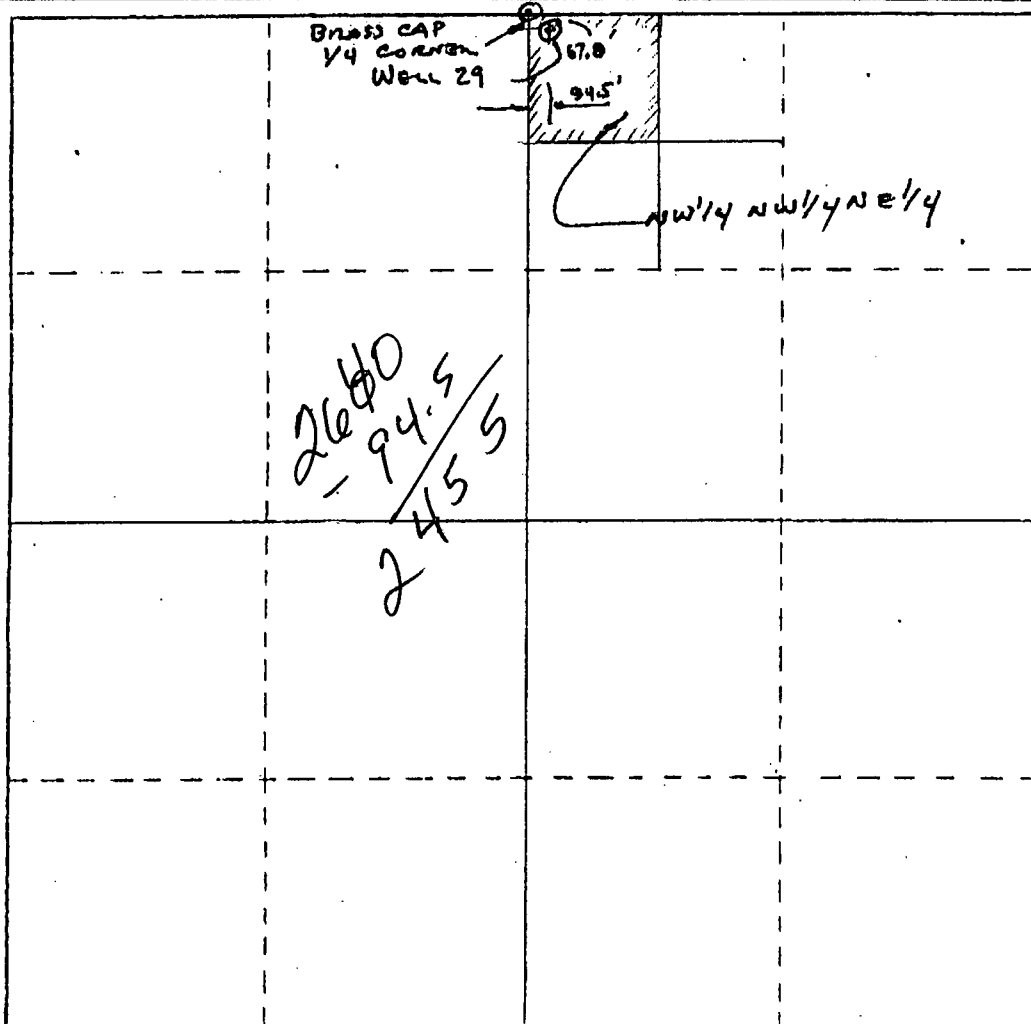
Operator			Lease			Well No. 29		
Unit Letter	Section 10	Township T21S	Range R1W	County Dona Ana				
Actual Footage Location of Well:								
67.8 feet from the NORTH line and			94.5 feet from the MIDSECTION line					
Ground Level Elev. 4633.2	Producing Formation			Pool			Dedicated Acreage:	
								Acres

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

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

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

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



CERTIFICATION

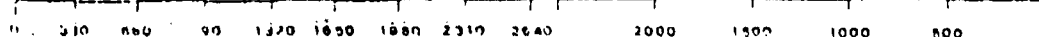
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

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.

CHARLES A. BOTSFORD
 Date Surveyed **8/1/80**
 Registered Professional Engineer and Land Surveyor
 N.M. **5211**

Certificate No. _____



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form G-103
Adopted 10-1-74
Revised 10-1-78

NO. OF COPIES RECEIVED	
DISTRIBUTION	
File	
N. M. B. M.	
U. S. G. S.	
Operator	
Land Office	

SUNDRY NOTICES AND REPORTS
ON
GEOTHERMAL RESOURCES WELLS

5. 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 type="checkbox"/> Low-Temp Thermal <input checked="" type="checkbox"/> Injection/Disposal <input type="checkbox"/>	7. Unit Agreement Name N/A
2. Name of Operator Alex R Masson Inc	8. Farm or Lease Name Masson
3. Address of Operator Drawer F Linwood KS 66052	9. Well No. 29
4. Location of Well Unit Letter B 67.8 Feet From The North Line and 94.5 Feet From The Mid-Section Line, Section 10 Township T21S Range R1W NMPM.	10. Field and Pool, or Wildcat Radium Spa K&RA
15. Elevation (Show whether DF, RT, GR, etc.) 4033.2 GR	12. County Dona Ana

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 checked="" type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG & ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input type="checkbox"/>	OTHER <input type="checkbox"/>

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.

Plugged and Abandoned
35 - 266 Feet cuttings
0 - 35 Feet cement slurry

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

SIGNED Bruce A. Fitzgerald TITLE G. Mgr. DATE 11/19/96
APPROVED BY [Signature] TITLE DISTRICT SUPERVISOR DATE 11-21-96
CONDITIONS OF APPROVAL, IF ANY:

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form G-106
Adopted 10-1-74
Revised 10-1-78

GEOTHERMAL RESOURCES WELL SUMMARY REPORT

Operator Alex R Masson Address Drawer F Linwood KS 66052
 Lease Name _____ Well No. 29
 Unit Letter B Sec. 10 Twp. T21S Rge R1W
 Reservoir Radium Springs County Dona Ana

Commenced drilling 1-14-95

GEOLOGICAL MARKERS

DEPTH

Completed drilling 1-17-95Total depth 191 Plugged depth 35'Junk NONECommenced producing _____
(Date)

Geologic age at total depth: _____

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	

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

PERFORATED CASING

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

Was analysis of effluent made? NONE Electrical log depths NONE Temperature log depths NONE

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 Bruce A. Fitzgerald Position G Mgr Date 11/19/96

JUN 1 1995

Form G-101
Adopted 10-1-74
Revised 10-1-78STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTOIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

NO. OF COPIES RECEIVED	
DISTRIBUTION	
File	
N.M.B.M.	
U.S.G.S.	
Operator	
Land Office	

APPLICATION FOR PERMIT TO DRILL, DEEPEN,
OR PLUG BACK--GEOTHERMAL RESOURCES WELL5. Indicate Type of Lease
STATE ☐ FEE ☒
5.a State Lease No.

1a. Type of Work Drill ☒ Deepen ☐ Plug Back ☐
 b. Type of Well Geothermal Producer ☐ Temp Observation ☐
 Low-Temp Thermal ☒ Injection/Disposal ☐

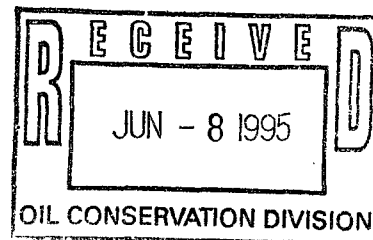
7. Unit Agreement Name
N/A8. Farm or Lease Name
MASSON'S2. Name of Operator
ALEX R. MASSON, INC.9. Well No.
293. Address of Operator
DRAWER F LINWOOD, KS 6605210. Field and Pool, or Wildcat
RADIIUM SPRING KGBA4. Location of Well UNIT LETTER B LOCATED 67.8 FEET FROM THE NORTH LINE
MIDSECTION
AND 94.5 FEET FROM THE LINE LINE OF SEC. 10 TWP. 21 S RGE. RIW NMPM12. County
DONA ANA

19. Proposed Depth 300' 19A. Formation 20. Rotary or C.T. ROTARY
 21. Elevations (Show whether DF, RT, etc.) 4033.2 21A. Kind & Status Plug. Bond 21B. Drilling Contractor KEN HULEY, INC. 22. Approx. Date Work will start FEB, 1995

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
7/8 6 1/8					

* A MINIMUM OF 20' SURFACE CASING, OR AS MUCH AS
NECESSARY TO ENSURE CASING SHOE PENETRATES AT LEAST
2' OF RHYOLITE.



IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new product 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 Bruce A. Fitzgerald Title OPERATOR Date 6/1/95

(This space for State Use)

APPROVED BY Ry E. [Signature] TITLE DISTRICT SUPERVISOR DATE 6/8/95
CONDITIONS OF APPROVAL, IF ANY:

GEOHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

JUN 1 1995

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

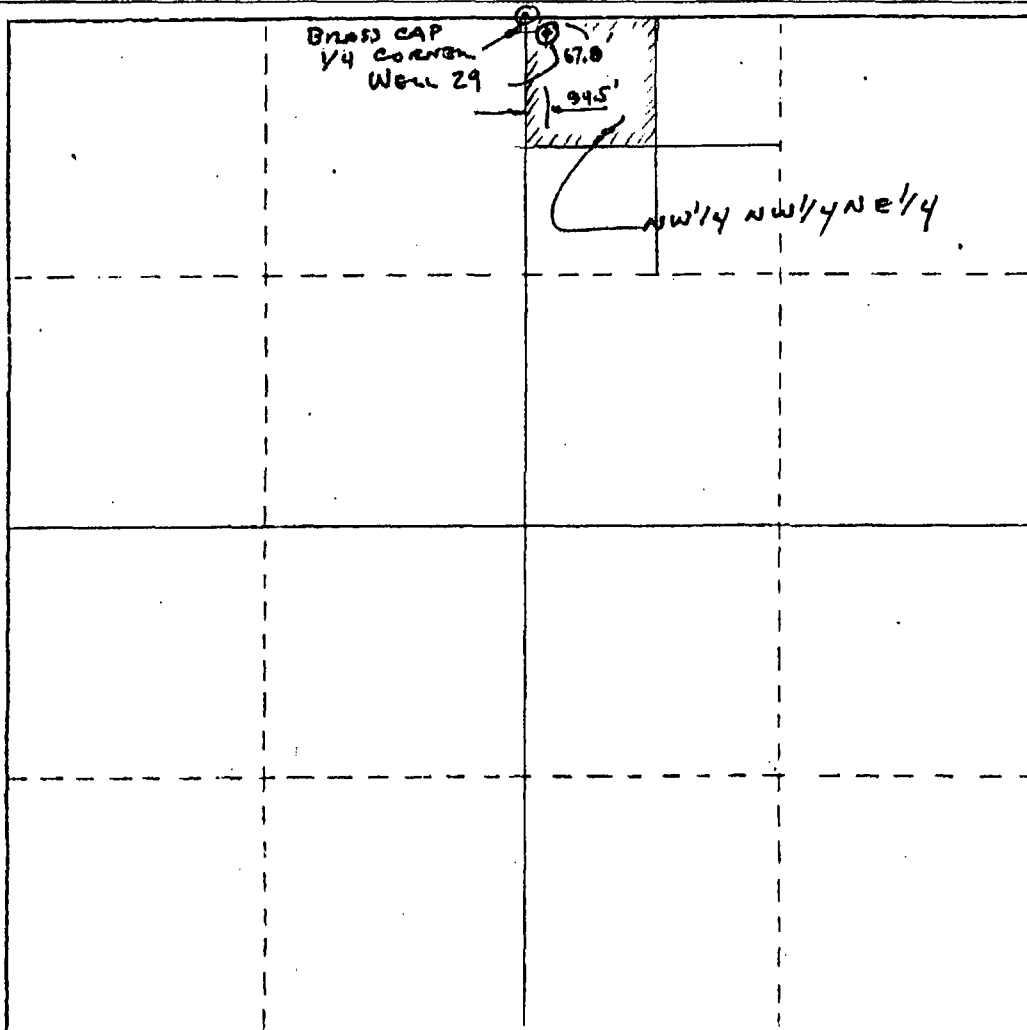
Operator		Lease		Well No. 29	
Unit Letter	Section 10	Township T21S	Range R1W	County DONA ANA	
Actual Footage Location of Well: 67.8 feet from the North line and 94.5 feet from the MIDSECTION line					
Ground Level Elev. 4033.2	Producing Formation		Pool	Dedicated Acreage: Acres	

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 Division.



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.

Date Surveyed

Registered Professional Engineer and Land Surveyor

N.M. 5211

Certificate No.

0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form G-101
Adopted 10-1-74
Revised 10-1-78

NO. OF COPIES RECEIVED	
DISTRIBUTION	
File	
N.M.B.M.	
U.S.G.S.	
Operator	
Land Office	

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 ☐ Deepen ☐ Plug Back ☐
b. Type of Well Geothermal Producer ☐ Temp Observation ☐
Low-Temp Thermal ☒ Injection/Disposal ☐

7. Unit Agreement Name
N/A
8. Farm or Lease Name
MASSON

2. Name of Operator
ALEX P. MASSON INC.
3. Address of Operator
DRAVER F LINWOOD KS 66052
4. Location of Well
UNIT LETTER B LOCATED 231.6 FEET FROM THE NORTH LINE
AND 2396.4 FEET FROM THE EAST LINE OF SEC. 10 TWP. 7215 RGE. R1W NMPM

9. Well No.
#30
10. Field and Pool, or Wildcat
Radium Spas, KGRA

12. County
DONAHUE

19. Proposed Depth 300'	19A. Formation	20. Rotary or C.T. ROTARY HORIZON
21. Elevations (Show whether DF, RT, etc.)	21A. Kind & Status Plug. Bond	21B. Drilling Contractor K.D. Huey Drilling
		22. Approx. Date Work will start 1-1-96

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
8					

THIS IS AN EXPLORATORY WELL TO TRY AND LOCATE AN
AMPLE SUPPLY OF HOT GEOTHERMAL WATER TO HEAT A
GREEN HOUSE

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 Brian A. Fitzgerald Title G. Mgr. Date 11/19/96

(This space for State Use)

APPROVED BY [Signature] TITLE DISTRICT SUPERVISOR DATE 11-21-96

CONDITIONS OF APPROVAL, IF ANY:

GEOHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

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

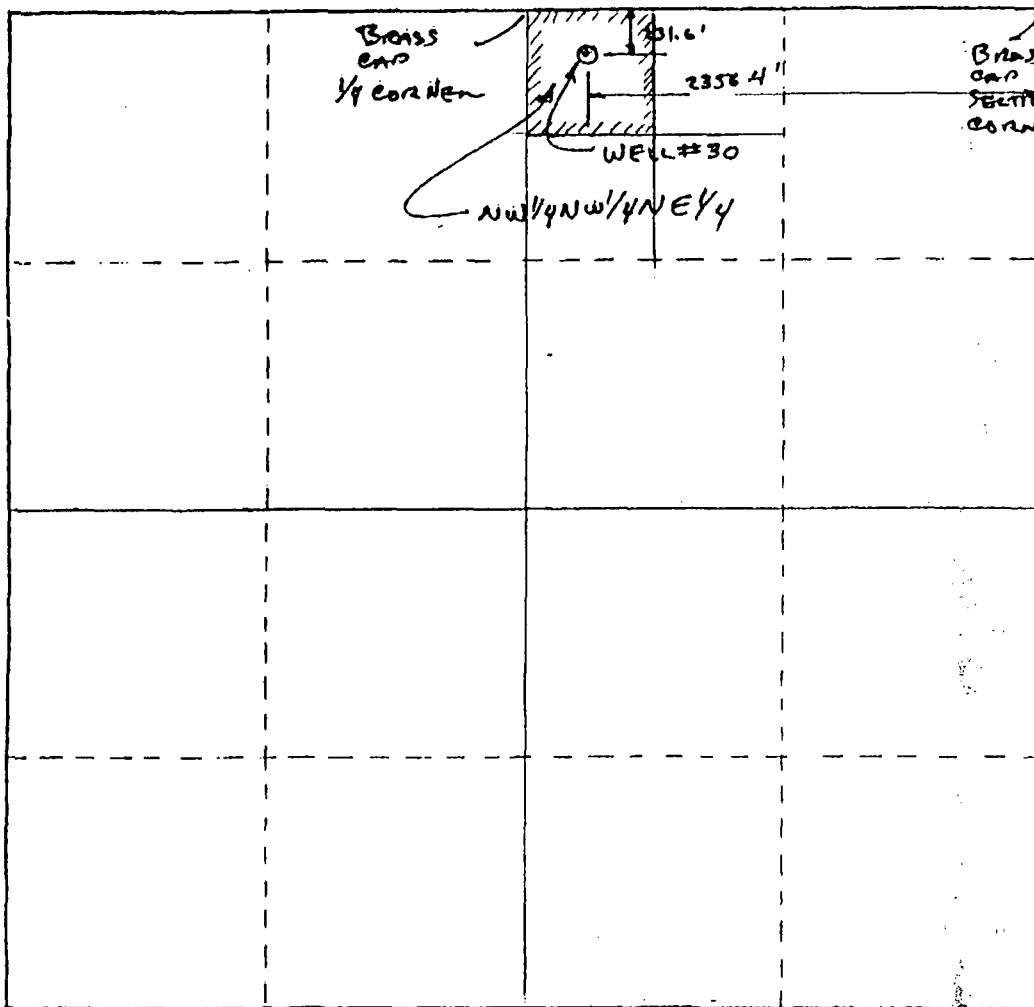
Operator		Lease		Well No. 30	
Unit Letter	Section 10	Township T21S	Range R1W	County DONA ANA	
Actual Footage Location of Well: 231.6 feet from the NORTH line and 2356.4 feet from the EAST line					
Ground Level Elev. 4017.0 TPC Caswly	Producing Formation		Pool	Dedicated Acreage: Acres	

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.

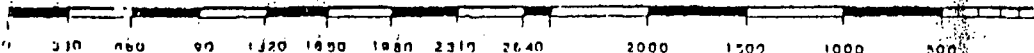
March 28, 1995

Date Surveyed

[Signature]
Registered Professional Engineer
and/or Land Surveyor

NMPS 5211

Certificate No.



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form G-103
Adopted 10-1-74
Revised 10-1-78

NO. OF COPIES RECEIVED	
DISTRIBUTION	
File	
N. M. B. M.	
U. S. G. S.	
Operator	
Land Office	

SUNDRY NOTICES AND REPORTS
ON
GEOTHERMAL RESOURCES WELLS

5. 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 type="checkbox"/> Low-Temp Thermal <input checked="" type="checkbox"/> Injection/Disposal <input type="checkbox"/>	7. Unit Agreement Name N/A
2. Name of Operator Alex R. Masson Inc.	8. Farm or Lease Name MASSON
3. Address of Operator Deaner F. Linwood, KS 66052	9. Well No. #30
4. Location of Well Unit Letter B 231.6 Feet From The North Line and 2356.4 Feet From The EAST Line, Section 10 Township T21S Range R1W NMPM.	10. Field and Pool, or Wildcat Radium Spgs. KGRA
15. Elevation (Show whether DF, RT, GR, etc.) 4017.6 GR.	12. County DONA DONA

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

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

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.

we propose to case this hole with 16" OD seamless
to a depth of 20' and 12" ID FIBERGLASS to a
depth of 220'

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

SIGNED Ben A. Fitzgerald TITLE C. Mgr DATE 11/19/96

APPROVED BY Ry. E. Johnson TITLE DISTRICT SUPERVISOR DATE 11-21-96

CONDITIONS OF APPROVAL, IF ANY:

OIL CONSERVATION DIVISION

P. O. BOX 2088

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

Form G-104
Adopted 10-1-74
Revised 10-1-78CERTIFICATE OF COMPLIANCE
AND AUTHORIZATION TO PRODUCE
GEOTHERMAL RESOURCES

OWNER OR OPERATOR

Name Alex R. Masson Inc
Address Drawer F Linwood KS 66052

TYPE OF WELL

Geothermal Producer ☐ Low-Temperature Thermal ☒ Injection/Disposal ☐

REASON FOR FILING

New Well ☒ Recompletion ☐
Change in Ownership ☐ Designation of Purchaser ☐
Other (Please Explain) ☐

DESCRIPTION OF WELL

Lease Name _____ Well No. 30 Name of Reservoir Radium Springs
Kind of Lease _____ Lease Number _____
(Fee, Fed. or State)

LOCATION

Unit Letter B ; 231.6 feet from the NORTH line and
2356.4 feet from the EAST line of
Section 10 Township T21S Range R1W
County DONA ANA

TYPE OF PRODUCT

Dry _____ Steam and _____ Low Temp. _____
Steam _____ Water _____ Thermal Water ☒

DESIGNATION OF PURCHASER OF PRODUCT

Name of Purchaser Alex R. Masson Inc
Address of Purchaser Drawer F Linwood KS 66052
Product Will Be Used For Green House Heating

CERTIFICATE OF COMPLIANCE

I hereby certify that all rules and regulations concerning geothermal resources wells in the State of New Mexico, as promulgated by the Oil Conservation Division of New Mexico, have been complied with, with respect to the subject well, and that the information given above is true and complete to the best of my knowledge and belief.

Signed Bruce A. Elzsgut Position G.Mgr. Date 11/19/96
Approved Ry Elzsgut Position DISTRICT SUPERVISOR Date 11-21-96

GEOHERMAL RESOURCES WELL LOG

Operator Alex R. Masson Inc.
Address Drawer F Linwood KS 66052
Reservoir Radium Springs
Lease Name _____ Well No. 30 Unit Letter B
Location: 231.6 feet from the NORTH line and
2356.4 feet from the EAST line Section 10
Township T21S Range R1W County Dona Ana

FORMATIONS PENETRATED BY WELL

DEPTH TO		Thickness	Drilled or Cored	Recovery	DESCRIPTION
Top of Formation	Bottom of Formation				
0	60	60			Purple Shale
60	216	156			Rhyolite
216	241	25			GRAY-purple Shale
241	316	65			Purple Rhyolite

Attach Additional Sheets if Necessary

This form must be accompanied by copies of electric logs, directional surveys, physical or chemical logs, water analyses, tests, and temperature surveys (See Rule 205).

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 Ben A Fitzgerald Position G. Mgr Date 11/19/96

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form G-106
Adopted 10-1-74
Revised 10-1-78

GEOTHERMAL RESOURCES WELL SUMMARY REPORT

Operator Alex R Masson Address Drawer F Linwood KS 66052
 Lease Name _____ Well No. 30
 Unit Letter B Sec. 10 Twp. T21S Rge. R1W
 Reservoir Radium Springs County Dona Ana

Commenced drilling 1-18-95

GEOLOGICAL MARKERS

DEPTH

Completed drilling 1-21-95Total depth 216 Plugged depth _____Junk None

Commenced producing _____

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	

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
17 1/2	16 OD	36.91		new	seamless	20	+1 Feet	40 CF	0 GR	visually
	12 ID	4		new	seamless	220	+1 Feet			

PERFORATED CASING

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

Was analysis of effluent made? None Electrical log depths None Temperature log depths None

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 Bruce A. Fitzgerald Position G. Mgr Date 11/19/96

GEOHERMAL RESOURCES WELL HISTORY

Operator Alex R. Masson Inc. Address Drawer F Linwood KS 66052
Lease Name _____ Well No. #30
Unit Letter B Sec. 10 Twp. T21S Rge. R1W
Reservoir Radium Springs County Dona

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

1-18-95 Commenced Drilling

1-21-95 Completed Drilling

CASING 16" OD Seamless 20' 40 cubic Feet
Redi Mix

CASING 12" ID Fiber Glass 220'

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 B. A. Fitzgerald Position G. Mgr Date 11/19/96

JUN 1 1995

Form G-101
Adopted 10-1-74
Revised 10-1-78STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTOIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

NO. OF COPIES RECEIVED		
DISTRIBUTION		
File		
N.M.B.M.		
U.S.G.S.		
Operator		
Land Office		

APPLICATION FOR PERMIT TO DRILL, DEEPEN,
OR PLUG BACK---GEOTHERMAL RESOURCES WELL5. Indicate Type of Lease
STATE ☐ FEE ☒

5.a State Lease No.

1a. Type of Work Drill ☒ Deepen ☐ Plug Back ☐
 b. Type of Well Geothermal Producer ☐ Temp Observation ☐
 Low-Temp Thermal ☒ Injection/Disposal ☐

7. Unit Agreement Name
N/A8. Farm or Lease Name
MASSON'S2. Name of Operator
ALEX R. MASSON, INC.9. Well No.
303. Address of Operator
DRAWER F LINWOOD, KS. 6605210. Field and Pool, or Wildcat
RADIIUM SPGS KGRA

4. Location of Well UNIT LETTER B LOCATED 231.6 FEET FROM THE NORTH LINE
 AND 2356.4 FEET FROM THE EAST LINE OF SEC. 10 TWP. T21S RGE. R1W NMPM

12. County
DONA ANA

19. Proposed Depth 3001
 19A. Formation
 20. Rotary or C.T. ROTARY
 21. Elevations (Show whether DF, RT, etc.) 4017
 21A. Kind & Status Plug. Bond
 21B. Drilling Contractor KEN HUEY
 22. Approx. Date Work will start MARCH, 1995

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
15 1/2"	12"				

* A MINIMUM OF 20' SURFACE CASING, OR AS MUCH AS
 NECESSARY TO ENSURE CASING SHOE PENETRATES AT LEAST
 2' OF RHYOLITE.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new production 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 Bruce A. Fitzgerald Title OPERATOR Date 6/1/95

(This space for State Use)

APPROVED BY Ry E. Johnson TITLE DISTRICT SUPERVISOR DATE 6/8/95
 CONDITIONS OF APPROVAL, IF ANY:

GEOTHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

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

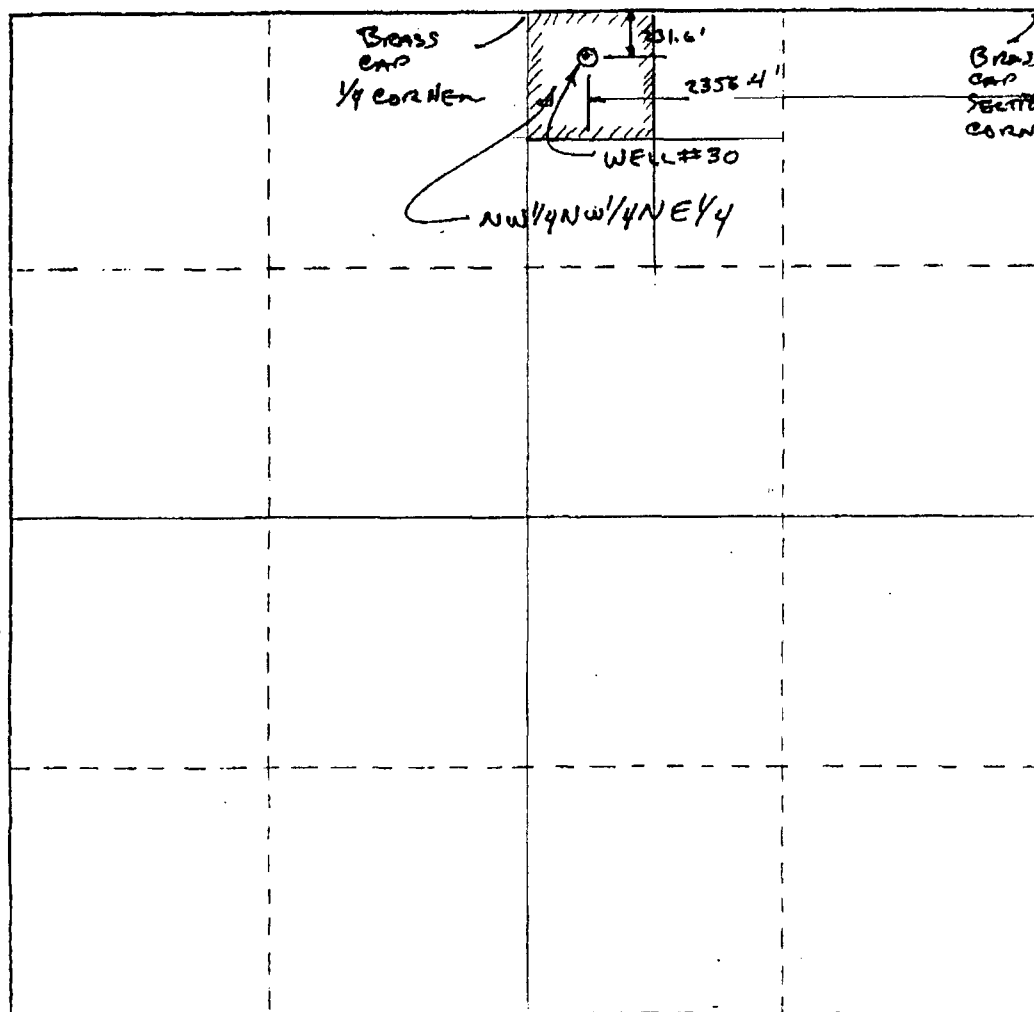
Operator		Lease		Well No. 30	
Unit Letter	Section 10	Township T21S	Range R1W	County DONA ANA	
Actual Footage Location of Well: 231.6 feet from the NORTH line and 2356.4 feet from the EAST line					
Ground Level Elev. 4017.0 TOP CASING	Producing Formation		Pool	Dedicated Acreage: Acres	

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.

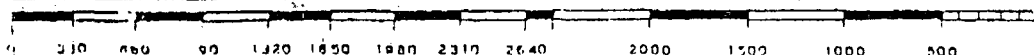
March 28, 1995

Date Surveyed

[Signature]
Registered Professional Engineer
and/or Land Surveyor

NMPS 5211

Certificate No.



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form G-101
Adopted 10-1-74
Revised 10-1-78

NO. OF COPIES RECEIVED	
DISTRIBUTION	
File	
N.M.B.M.	
U.S.G.S.	
Operator	
Land Office	

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 ☐ Deepen ☐ Plug Back ☐
1b. Type of Well Geothermal Producer ☐ Temp Observation ☐
Low-Temp Thermal ☒ Injection/Disposal ☐

7. Unit Agreement Name
N/A
8. Farm or Lease Name
Radium Springs Farm
9. Well No.
#31

2. Name of Operator
ALEX R. MASSON, INC
3. Address of Operator
DANIEL F LINWOOD KS,
4. Location of Well UNIT LETTER B LOCATED 203.3 FEET FROM THE NORTH LINE
AND 2160.3 FEET FROM THE EAST LINE OF SEC. 10 TWP. 7215 RGE. R1W NMPM

10. Field and Pool, or Wildcat
Radium Springs KGRA
12. County
DONA ANA

19. Proposed Depth 300'
19A. Formation
20. Rotary or C.T. ROTARY & HAMMER
21. Elevations (Show whether DF, RT, etc.)
21A. Kind & Status Plug. Bond
21B. Drilling Contractor K. D. Huey Drilling
22. Approx. Date Work will start 2-29-95

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
17 3/4	16 OD	3425	20-80	9-12	SURFACE

* A minimum of 20' surface casing, or as much as necessary to ensure casing shoe penetrates at least 2' of Rhgolite

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 Bruce A. Tetzner Title G. Mgr. Date 11/18/96

(This space for State Use)

APPROVED BY Ry Elham TITLE DISTRICT SUPERVISOR DATE 11-21-96

CONDITIONS OF APPROVAL, IF ANY:

GEOTHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

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

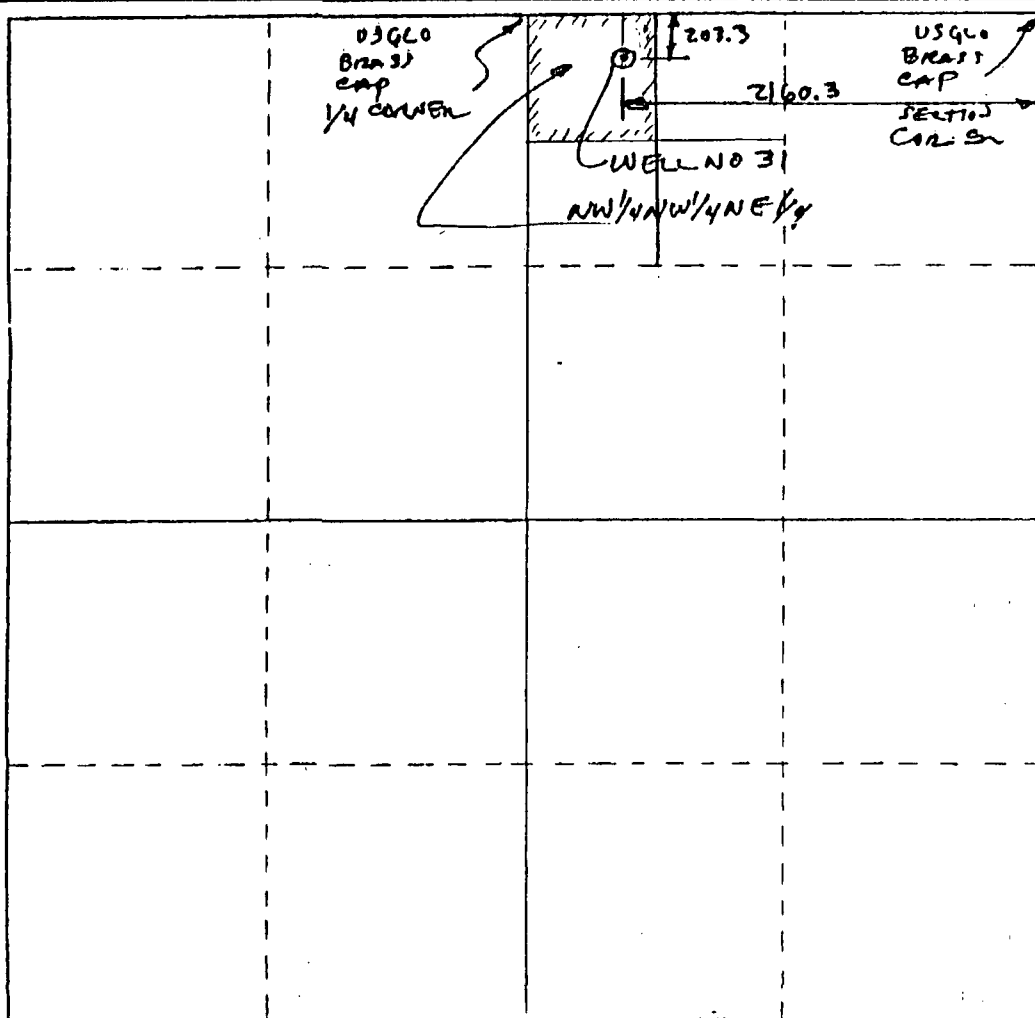
Operator		Lease		Well No. 31	
Unit Letter	Section 10	Township T21S	Range R1W	County DONA ANA	
Actual Footage Location of Well: 203.3 feet from the NORTH line and 2160.3 feet from the EAST line					
Ground Level Elev. 4057.7	Producing Formation		Pool	Dedicated Acreage: Acres	

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.

MARCH 28, 1995

Date Surveyed

[Signature]
Registered Professional Engineer
and/or Land Surveyor

NMPS No 5211

Certificate No.

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form G-103
Adopted 10-1-74
Revised 10-1-78

NO. OF COPIES RECEIVED	
DISTRIBUTION	
File	
N. M. B. M.	
U. S. G. S.	
Operator	
Land Office	

SUNDRY NOTICES AND REPORTS
ON
GEOTHERMAL RESOURCES WELLS

5. 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 type="checkbox"/> Low-Temp Thermal <input checked="" type="checkbox"/> Injection/Disposal <input type="checkbox"/>	7. Unit Agreement Name N/A
2. Name of Operator ALEX RIMASSON INC.	8. Farm or Lease Name Radium Springs FARM
3. Address of Operator DRAWER F LINWOOD, KS 66052	9. Well No. #31
4. Location of Well Unit Letter <u>B</u> <u>203.3</u> Feet From The <u>North</u> Line and <u>2160.3</u> Feet From The <u>EAST</u> Line, Section <u>10</u> Township <u>T21S</u> Range <u>R1W</u> NMPM.	10. Field and Pool, or Wildcat RADIIUM SPRINGS K GRA
15. Elevation (Show whether DF, RT, GR, etc.) 4051.7 GL	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 ☐

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.

We propose to case this hole with 12" ID
Fiber GLASS CASING TO A DEPTH OF 260'

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

SIGNED Bruce A. Fitzgerald TITLE GMgr DATE 11/19/96

APPROVED BY Ry Johnson TITLE DISTRICT SUPERVISOR DATE 11-21-96

CONDITIONS OF APPROVAL, IF ANY:

OIL CONSERVATION DIVISION

P. O. BOX 2088

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

Form G-104
Adopted 10-1-74
Revised 10-1-78CERTIFICATE OF COMPLIANCE
AND AUTHORIZATION TO PRODUCE
GEOTHERMAL RESOURCES

OWNER OR OPERATOR

Name Alex R. Masson Inc.
Address Drawer F Linwood KS. 66052

TYPE OF WELL

Geothermal Producer ☐ Low-Temperature Thermal ☒ Injection/Disposal ☐

REASON FOR FILING

New Well ☒ Recompletion ☐
Change in Ownership ☐ Designation of Purchaser ☐
Other (Please Explain) ☐

DESCRIPTION OF WELL

Lease Name _____ Well No. 31 Name of Reservoir Radium Springs
Kind of Lease (Fee, Fed. or State) _____ Lease Number _____

LOCATION

Unit Letter B; 203.3 feet from the NORTH line and
2160.3 feet from the EAST line of
Section 10 Township T21S Range RIW
County DONA ANA

TYPE OF PRODUCT

Dry _____ Steam and Water _____ Low Temp. Thermal Water ☒

DESIGNATION OF PURCHASER OF PRODUCT

Name of Purchaser Alex R. Masson Inc.
Address of Purchaser Drawer F. Linwood KS. 66052
Product Will Be Used For Green House Heating

CERTIFICATE OF COMPLIANCE

I hereby certify that all rules and regulations concerning geothermal resources wells in the State of New Mexico, as promulgated by the Oil Conservation Division of New Mexico, have been complied with, with respect to the subject well, and that the information given above is true and complete to the best of my knowledge and belief.

Signed Bruce A. Tisdale Position G. Mgr. Date 11/19/96
Approved Ry. Chapman Position DISTRICT SUPERVISOR Date 11-21-96

GEOHERMAL RESOURCES WELL LOG

Operator Alex R Masson Inc.
Address Drawer F Linwood KS 66052
Reservoir Radium Springs
Lease Name _____ Well No. 31 Unit Letter B
Location: 203.3 feet from the NORTH line and 2160.3 feet from the EAST line Section 10
Township T21S Range R1W County DONA ANA

FORMATIONS PENETRATED BY WELL

DEPTH TO		Thickness	Drilled or Cored	Recovery	DESCRIPTION
Top of Formation	Bottom of Formation				
0	12	12'			SAND-GRAVEL-Boulders
12	119	107'			GRAY TO Purple shale
119	277	158'			Purple Rhyolite
277	292	15'			GRAY Rhyolite

Attach Additional Sheets if Necessary

This form must be accompanied by copies of electric logs, directional surveys, physical or chemical logs, water analyses, tests, and temperature surveys (See Rule 205).

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 Bruce A. Fitzgerald Position G. Mgr. Date 11/19/96

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO

P. O. BOX 2088

Form G-106
Adopted 10-1-74
Revised 10-1-78

ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

GEOTHERMAL RESOURCES WELL SUMMARY REPORT

Operator Alex R. Masson Inc Address Danwel F Linwood KS 66052
 Lease Name _____ Well No. 31
 Unit Letter B Sec. 10 Twp. T21S Rge R1W
 Reservoir Radium Springs County Dona Ana

Commenced drilling 2-9-95

GEOLOGICAL MARKERS

DEPTH

Completed drilling 5-14-95Total depth 260 Plugged depth _____Junk NONECommenced producing _____
(Date)

Geologic age at total depth: _____

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	

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
12 3/4	16 OD	3425		NEW	SEAMLESS	20	41 Feet	9	0 GR	VISUALLY
	12 ID	FG #4		NEW	SEAMLESS	260	41 Feet			

PERFORATED CASING

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

Was analysis of effluent made? NONE Electrical log depths NONE Temperature log depths NONE

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 Bruce A. Fitzgerald Position G. Mgr Date 4/19/96

GEOHERMAL RESOURCES WELL HISTORY

Operator Alex R Masson Inc. Address Drawer F Linwood KS, 66052
Lease Name _____ Well No. 31
Unit Letter B Sec. 10 Twp. T21S Rge. R1W
Reservoir Radium Springs 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

2-9-95 Commenced Drilling
5-14-95 Completed Drilling
CASING 16" A seamless 20' 27 cubic Feet Cement Dumped
CASING 12" ID FiberGlass 260' ^{mix}

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 Brian A. Filzgerald Position G. Mgr. Date 11/19/96

JUN 1 1995

Form G-101
Adopted 10-1-74
Revised 10-1-78STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTOIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

NO. OF COPIES RECEIVED	
DISTRIBUTION	
File	
N.M.B.M.	
U.S.G.S.	
Operator	
Land Office	

APPLICATION FOR PERMIT TO DRILL, DEEPEN,
OR PLUG BACK--GEOTHERMAL RESOURCES WELL5. Indicate Type of Lease
STATE ☐ ☒ FEE
5.a State Lease No.

1a. Type of Work Drill ☒ Deepen ☐ Plug Back ☐
 b. Type of Well Geothermal Producer ☐ Temp Observation ☐
 Low-Temp Thermal ☒ Injection/Disposal ☐

7. Unit Agreement Name
N/A8. Farm or Lease Name
MASSON'S2. Name of Operator
ALEX R. MASSON, INC.9. Well No.
313. Address of Operator
DRAWER F LINWOOD, KS 6605210. Field and Pool, or Wildcat
RADIUM SPGS 1662A4. Location of Well UNIT LETTER B LOCATED 203.3 FEET FROM THE NORTH LINE
AND 2160. FEET FROM THE EAST LINE OF SEC. 10 TWP. T21S RGE. R1W NMPM12. County
DONA ANA

19. Proposed Depth 300'
 19A. Formation
 20. Rotary or C.T. ROTARY
 21. Elevations (Show whether DF, RT, etc.) 4051.7
 21A. Kind & Status Plug. Bond
 21B. Drilling Contractor KEN HUEY
 22. Approx. Date Work will start APRIL, 1995

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
15 3/4"	12"				

* A MINIMUM OF 20' SURFACE CASING, OR AS MUCH AS
NECESSARY TO ENSURE CASING SHOE PENETRATES AT
LEAST 2' OF RHYOLITE.

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 Bruce A. Fitzgerald Title OPERATOR Date 6/1/95

(This space for State Use)

APPROVED BY [Signature] TITLE DISTRICT SUPERVISOR DATE 6/8/95

CONDITIONS OF APPROVAL, IF ANY:

JUN 1 1995

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.



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.

March 28, 1995

Date Surveyed _____

Registered Professional Engineer
and/or Land Surveyor

NMPS No 5211

Certificate No.

MONTHLY GEOTHERMAL PRODUCTION REPORT

SUBMIT IN DUPLICATE

Month of 1/30/02 TO 2/28/02

Operator <u>ALEX R. MASSON</u>					Address <u>P.O. Box 20, Radium Springs N.M. 88054</u>									
Lease Name <u>MASSON</u>					Reservoir <u>RADIUM SPRINGS, KGRA</u>					County <u>DONA ANA</u>				

NOTE: Report actual production (NOT SALES). Use Form G-109 for water injection wells.

Well No.	Unit Ltr.	Sec.	Twp.	Rge	Total mass produced (Lbs x 10 ⁶)	Dry steam produced (Lbs x 10 ⁶)	Flow temp. (°F)	Flow pres. (psig)	Water produced (acre-feet)	Minerals produced (type and tons)	Method of Prod (F. or P.)	No. days well prod	If well not on production, state reason
32		10	21S	1W	*		145.5		*		P		
33		10	21S	1W			168.0						BACK-UP
34		10	21S	1W							P		
TOTALS													

Notes

* Our production Flow meter is still in for Repairs -- Water production is currently being metered by the Disposal Injection Flow meter.

PRODUCTION METER IS STILL OUT OF SERVICE.

Masson Farms of New Mexico, Inc.
2100 C.R. D061
P.O. Box 20
Radium Springs, N.M. 88054

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

(Signature)

(Title)

(Date)

MONTHLY GEOTHERMAL INJECTION REPORT

Operator ALEX R. MASSON						Address P.O. BOX 20 RADIUM SPRINGS, N.M. 88054					
Lease Name MASSON				Field RADIUM SPRINGS, KGRA			County DONA ANA				
Well No.	Location				P.M. or D.	Acre Feet Water Inj.	Ave. Surf. Inj. Pres.	Ave. Temp. Inj. Wtr.	Cumulative Water Inj.	Name of Inj. Zone	Source of Water
	UL	S	T	R							
19		10	215	1W		81.95	20.2	126	26,704,318		PRODUCTION
25		10	215	1W							BACK-UP
15	INACTIVE										
16	1										
TOTALS						81.95			26,704,318		

P.M. is injection into a producing zone for the purpose of building up or maintaining pressure.
D. is injection into a zone other than a producing zone for disposal purposes.
I hereby certify that the above is true and complete to the best of my knowledge and belief.

Masson Farms of New Mexico, Inc.
2100 C.R. D061
P.O. Box 20
Radium Springs, N.M. 88054

Remarks: ALL READINGS ARE FROM
THE INJECTION FLOW METER
UNTIL INSTALLATION OF THE NEW
METER IS COMPLETE

Name ANTONIO HEREDIA JR.
Company MASSON FARMS OF NEW MEXICO
Title MAINT. SUPERVISOR Date 8-10-02

MONTHLY GEOTHERMAL PRODUCTION REPORT

SUBMIT IN DUPLICATE

Month of 3/31/02 TO 5/9/02

Operator <u>ALEX R. MASSON</u>	Address <u>P.O. BOX 20, RADIUM SPRINGS, N.M. 88054</u>
Lease Name <u>MASSON</u>	Reservoir <u>RADIUM SPRINGS, KGRA</u>
	County <u>DONA ANA</u>

NOTE: Report actual production (NOT SALES). Use Form G-109 for water injection wells.

Well No.	Unit Ltr.	Sec.	Twp.	Rge	Total mass produced (Lbs x 10 ⁶)	Dry steam produced (Lbs x 10 ⁶)	Flow temp. (°F)	Flow pres. (psig)	Water produced (acre-feet)	Minerals produced (type and tons)	Method of Prod (F. or P.)	No. days well prod	If well not on production, state reason
32		10	21S	1W			143.93				P		
33		10	21S	1W			167.62				P		
34		10	21S	1W									BACK-UP
22	INACTIVE												
23													
26													
28													
30													
31													
TOTALS													

PRODUCTION METER IS STILL OUT OF SERVICE.

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

Alex R. Masson (Signature) MAINT Supervisor (Title) Masson Farms of New Mexico, Inc. (Date) 10-02
2100 C.R. D061
P.O. Box 20
Radium Springs, N.M. 88054

MONTHLY GEOTHERMAL PRODUCTION REPORT

SUBMIT IN DUPLICATE

Month of 6/6/02 7/9/02

Operator	Alex R. Masson	Address	P.O. Box 20 Radium Springs N.M. 88054
Lease Name	Masson	Reservoir	Radium Springs KGRA
		County	Dona Ana

NOTE: Report actual production (NOT SALES). Use Form G-109 for water injection wells.

Well No.	Unit Ltr.	Sec.	Twp.	Rge	Total mass produced (Lbs x 10 ⁶)	Dry steam produced (Lbs x 10 ⁶)	Flow temp. (°F)	Flow pres. (psig)	Water produced (acre-feet)	Minerals produced (type and tons)	Method of Prod (F. or P.)	No. days well prod	If well not on production, state reason
32		10	21S	IW			157.7				P		
33		10	21S	IW									Back up
34		10	21S	IW									Back up.
22													
23													
26													
28													
30													
31													
TOTALS													

Inactive

Production meter is still out of service

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

[Signature]
(Signature)

MAINTENANCE Supervisor
Masson Farms of New Mexico, Inc.
2100 C.R. D061
P.O. Box 20
Radium Springs, N.M. 88054

7-9-02
(Date)

MONTHLY GEOTHERMAL PRODUCTION REPORT

SUBMIT IN DUPLICATE

Month of 2/28/02 TO 3/31/02

Operator ALEX R. MASSON Address P.O. Box 20, Radium Springs, N.M. 88054
Lease Name MASSON Reservoir Radium Springs, KGRA County Dona Ana

NOTE: Report actual production (NOT SALES). Use Form G-109 for water injection wells.

Well No.	Unit Ltr.	Sec.	Twp.	Rge	Total mass produced (Lbs x 10 ⁶)	Dry steam produced (Lbs x 10 ⁶)	Flow temp. (°F)	Flow pres. (psig)	Water produced (acre-feet)	Minerals produced (type and tons)	Method of Prod (F. or P.)	No. days well prod	If well not on production, state reason
32		10	21S	1W			150.3				P		
33		10	21S	1W			169.3				P		
34		10	21S	1W									BACK-UP
22													
23													
26													
28													
30													
31													
TOTALS													

PRODUCTION METER IS
STILL OUT OF SERVICE.

22 INACTIVE
23
26
28
30
31

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

[Signature]
(Signature)

MAINT. Supervisor
(Title)
Masson Farms of New Mexico, Inc.
2100 C.R. D061
P.O. Box 20
Radium Springs, N.M. 88054

4-5-02
(Date)

MONTHLY GEOTHERMAL PRODUCTION REPORT

SUBMIT IN DUPLICATE

Month of 10/30/01 TO 11/30/01

Operator <u>ALEX R. MASSON</u>						Address <u>P.O. BOX 20, RADIUM SPRINGS, NM. 88054</u>							
Lease Name <u>MASSON</u>					Reservoir <u>RADIUM SPRINGS</u>					County <u>DONA ANA</u>			
NOTE: Report actual production (NOT SALES). Use Form G-109 for water injection wells.													
Well No.	Unit Ltr.	Sec.	Twp.	Rge	Total mass produced (Lbs x 10 ⁶)	Dry steam produced (Lbs x 10 ⁶)	Flow temp. (°F)	Flow pres. (psig)	Water produced (acre-feet)	Minerals produced (type and tons)	Method of Prod (F. or P.)	No. days well prod	If well not on production, state reason
32		10	21S	1W	10,490,210		146.2		32.193		P		PRODUCTION
33		10	21S	1W	10,490,210		168.1		32.193		P		PRODUCTION
22													INACTIVE /
23													
26													
28													
30													
TOTALS					20,980,420				64.38%				

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

[Signature]
(Signature)

ALEX R. MASSON, INC
2100 C.R. D081
PO BOX 20
RADIUM SPRINGS, NM 88054

MAINT. SUPERVISOR
(Title)

10 Dec 01
(Date)

MONTHLY GEOTHERMAL PRODUCTION REPORT

SUBMIT IN DUPLICATE

Month of 9/29/01 To 10/30/01

Operator ALEX R. MASSON Address P.O. Box 20 RADIUM SPRINGS, N.M. 88054
Lease Name MASSON Reservoir RADIUM SPRINGS County DONA ANA

NOTE: Report actual production (NOT SALES). Use Form G-109 for water injection wells.

Well No.	Unit Ltr.	Sec.	Twp.	Rge	Total mass produced (Lbs x 10 ⁶)	Dry steam produced (Lbs x 10 ⁶)	Flow temp. (°F)	Flow pres. (psig)	Water produced (acre-feet)	Minerals produced (type and tons)	Method of Prod (F. or P.)	No. days well prod	If well not on production, state reason
32		10	21S	1W	9,479,090		148.62		29.09		P		PRODUCTION
33		10	21S	1W	9,479,090		168.96		29.09		P		PRODUCTION

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

Alex R. Masson
(Signature)

MAINT Supervisor
(Title)

10/30/01
(Date)

ALEX R. MASSON, INC
2100 C.R. D081
PO BOX 20
RADIUM SPRINGS, NM 88054

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTOIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form G-101
Adopted 10-1-74
Revised 10-1-78

NO. OF COPIES RECEIVED	
DISTRIBUTION	
File	
N.M.B.M.	
U.S.G.S.	
Operator	
Land Office	

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

5. Indicate Type of Lease

STATE ☐FEE ☒

5.a State Lease No.

7. Unit Agreement Name

N/A

8. Farm or Lease Name

MASSON

9. Well No.

32

10. Field and Pool, or Wildcat

RADIUM SPGS, KGR

12. County

DONA ANA

1a. Type of Work Drill ☒ Deepen ☐ Plug Back ☐

b. Type of Well Geothermal Producer ☒ Temp Observation ☐
Low-Temp Thermal ☐ Injection/Disposal ☐

2. Name of Operator ALEX R. MASSON, INC

3. Address of Operator DRAWER F LINWOOD KANSAS

4. Location of Well UNIT LETTER _____ LOCATED 55 FEET FROM THE N LINE
AND 1891.8 FEET FROM THE E LINE OF SEC. 10 TWP. 21S RGE. 1W NMPM

19. Proposed Depth 300	19A. Formation	20. Rotary or C.T. ROTARY
21. Elevations (Show whether DF, RT, etc.) 4054	21A. Kind & Status Plug. Bond	21B. Drilling Contractor K.O. HUEY CO.
		22. Approx. Date Work will start 9-29-97

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
17 1/2"	12 3/4"	25.22	40'	32	SURFACE

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.

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

Signed Bruce A. Fitzgerald Title Operator Date 11/15/97

(This space for State Use)

APPROVED BY [Signature] TITLE DISTRICT SUPERVISOR DATE 12/29/97

CONDITIONS OF APPROVAL, IF ANY:

GEOTHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

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

Operator ALEX R. MASON, INC.		Lease		Well no. 32	
Unit Letter	Section 10	Township 21 SOUTH	Range 1 WEST	County DONA ANA	
Actual Footage Location of Well: 55.0 feet from the NORTH line and 1891.8 feet from the EAST line					
Ground Level Elevation 4054	Producing Formation RADIUM SPRINGS		Dedicated Acreage: 10 Acres		

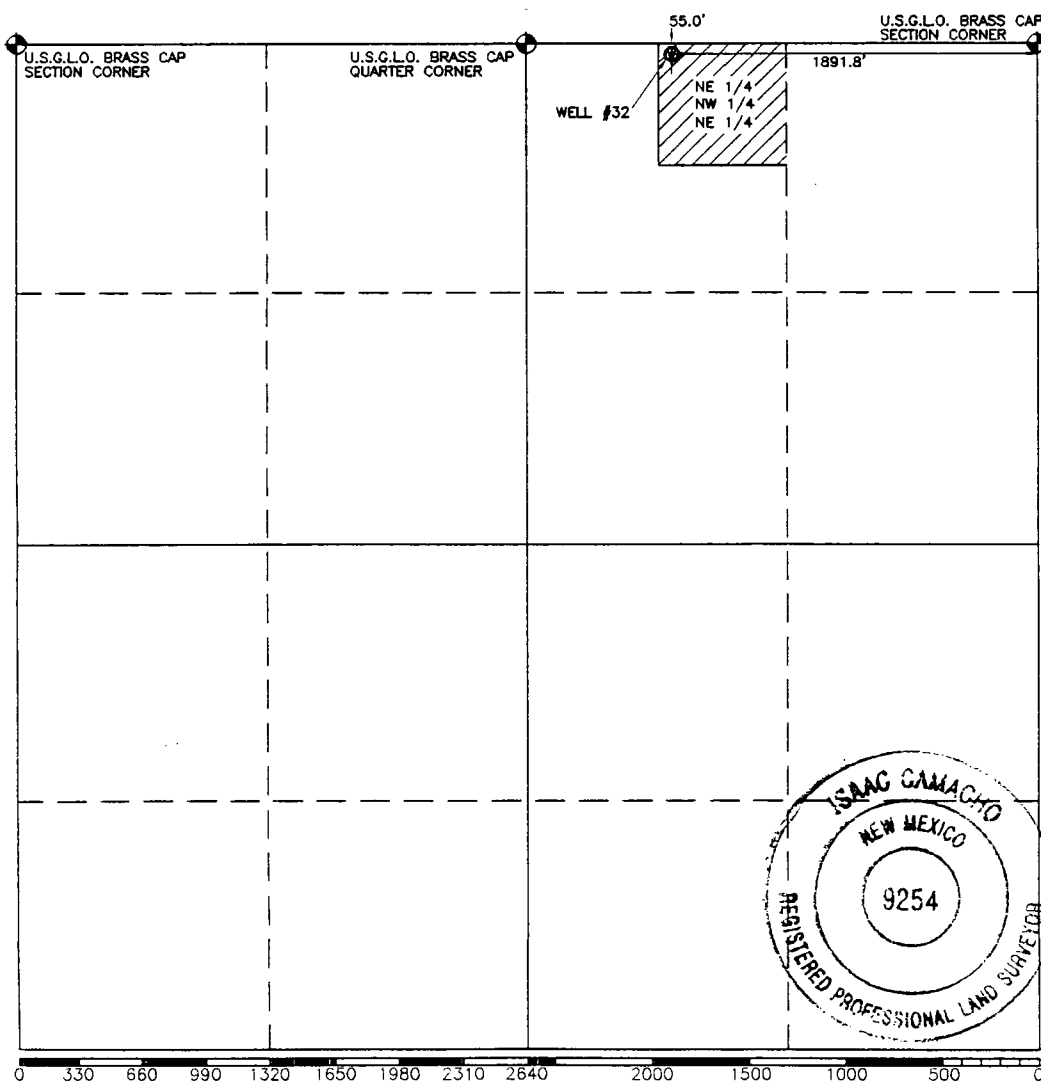
1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is 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 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 Division.



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.

Date Surveyed _____

NOVEMBER 10, 1997

Registered Professional Engineer
and/or Land Surveyor*Isaac Gamacho*

Certificate No. _____

N.M.P.S. NO. 9254

GEOTHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

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

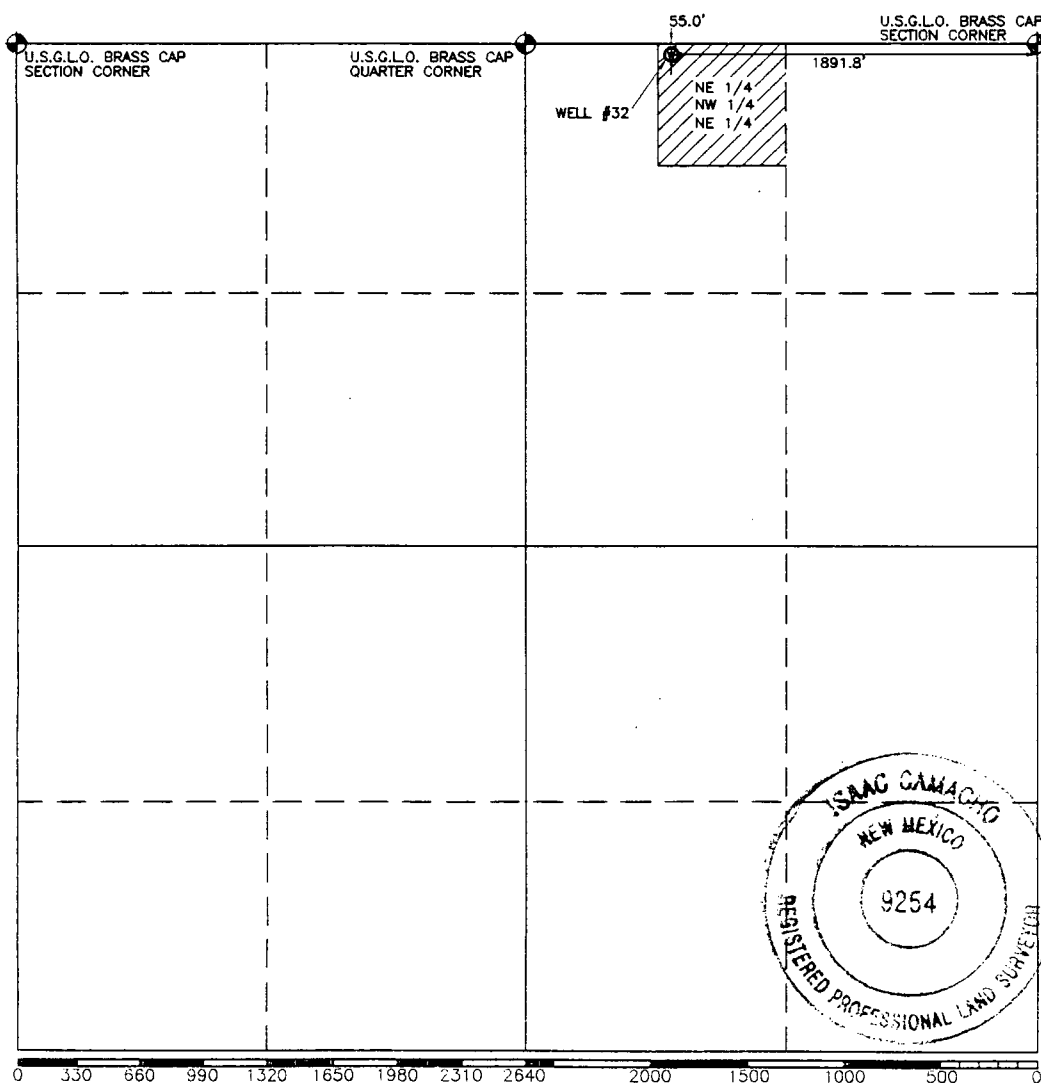
Operator ALEX R. MASON, INC.		Lease		Well no. 32	
Unit Letter	Section 10	Township 21 SOUTH	Range 1 WEST	County DONA ANA	
Actual Footage Location of Well: 55.0 feet from the NORTH line and 1891.8 feet from the EAST line					
Ground Level Elevation 4054	Producing Formation RADIUM SPRINGS		Dedicated Acreage: 10 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 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 Division.



CERTIFICATION

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

Jim Moore
Name
Maunt Ags.
Position
Alex R. Mason Inc.
Company
12-16-97
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.

Date Surveyed
NOVEMBER 10, 1997
Registered Professional Engineer and/or Land Surveyor
Isaac Camacho
Certificate No.

N.M.P.S. NO. 9254

NO. OF COPIES RECEIVED	
DISTRIBUTION	
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.

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
N/A

2. Name of Operator
Alex. R. Masson, Inc.

8. Farm or Lease Name
MASSON

3. Address of Operator
Drawer F, Linwood KS 66052

9. Well No.
32

4. Location of Well
Unit Letter 55 Feet From The NORTH Line and 1891.8 Feet From
The EAST Line, Section 10 Township 21 S Range 1 W NMPM.

10. Field and Pool, or Wildcat
Radium Springs

15. Elevation (Show whether DF, RT, GR, etc.)
4054 GR.

12. County
Deer Ariz

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 ☐

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.)

Drilling Start on 9-29-97 and Complete on 10-3-97. Low temp Geothermal well Drilled to 300 feet and Cased with 12" fiberglass casing to the bottom the casing is perforated for 200 feet to 300 feet and the Goulds 10 Hc turbine pump is Set at 240' with 6" x 10' column pipe below the pump making the intake level 250'
Projected gpm to be 350 to 450

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

SIGNED Jim Moore TITLE Maint. Eng. DATE 12-16-97

APPROVED BY Ry. E. Johnson TITLE DISTRICT SUPERVISOR DATE 12/29/97

CONDITIONS OF APPROVAL (IF ANY)

OIL CONSERVATION DIVISION

P. O. BOX 2088

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

Form G-104
Adopted 10-1-74
Revised 10-1-78CERTIFICATE OF COMPLIANCE
AND AUTHORIZATION TO PRODUCE
GEOTHERMAL RESOURCES

OWNER OR OPERATOR

Name

Alex R Masson Inc.

Address

DRAWER F LINWOOD KS 66052

TYPE OF WELL

Geothermal Producer ☐Low-Temperature Thermal ☒Injection/Disposal ☐

REASON FOR FILING

New Well ☒Recompletion ☐Change in Ownership ☐Designation of Purchaser ☐Other (Please Explain) ☐

DESCRIPTION OF WELL

Lease

Well

32

Name of

Name

No.

Reservoir

Radium Springs

Kind of Lease

Lease

(Fee, Fed. or State)

Number

LOCATION

Unit

Letter

55

feet from the

North

line and

1891.8

feet from the

EAST

line of

Section

10

Township

21 S

Range

1 W

County

DONA ANA

TYPE OF PRODUCT

Dry

Steam and

Low Temp.

Steam

Water

Thermal Water

☒

DESIGNATION OF PURCHASER OF PRODUCT

Name of

Purchaser

Alex R Masson Inc.

Address of

Purchaser

DRAWER F LINWOOD KS 66052

Product Will

Be Used For

GREEN HOUSE HEATING

CERTIFICATE OF COMPLIANCE

I hereby certify that all rules and regulations concerning geothermal resources wells in the State of New Mexico, as promulgated by the Oil Conservation Division of New Mexico, have been complied with, with respect to the subject well, and that the information given above is true and complete to the best of my knowledge and belief.

Signed

Jim Mogg

Position

Maint. Insp.

Date

12-16-97

Approved

Ry E Johnson

DISTRICT SUPERVISOR

12/29/97

GEOTHERMAL RESOURCES WELL LOG

Operator Alex R. Masson, Inc.
Address Dravel F. Linwood K.S. 66052
Reservoir Radium Springs
Lease Name _____ Well No. 32 Unit Letter _____
Location: 55 feet from the NORTH line and
1891.8 feet from the EAST line Section 10
Township 21 S Range 1 W County DONA ANA

FORMATIONS PENETRATED BY WELL

DEPTH TO		Thickness	Drilled or Cored	Recovery	DESCRIPTION
Top of Formation	Bottom of Formation				
0	26	26			SAND, GRAVEL, BOULDERS
26	170	144			GRAY TO PURPLE SHALE
170	300	130			PURPLE RHYOLITE

Attach Additional Sheets if Necessary

This form must be accompanied by copies of electric logs, directional surveys, physical or chemical logs, water analyses, tests, and temperature surveys (See Rule 205).

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 Jim Moore Position Plant Mgr. Date 12-16-97

GEOHERMAL RESOURCES WELL SUMMARY REPORT.

Operator ALEX R. MASSON, INC Address DRAWER F LINWOOD, KS. 66052
Lease Name _____ Well No. 32
Unit Letter _____ Sec. 10 Twp. 21 S Rge. 1 W
Reservoir RADIUM SPRINGS County DONA ANA

Commenced drilling 9-29-97 GEOLOGICAL MARKERS _____ DEPTH _____
Completed drilling 10-3-97
Total depth 300 ft Plugged depth _____
Junk NONE

Commenced producing _____ (Date) _____ Geologic age at total depth: _____

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

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
18"	16"	36.87		NEW		NONE		24	SURFACE	VISUALLY
	12"	F.6		NEW		CAPPED				

PERFORATED CASING

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

12" F.6. 200' to 300'

Was analysis of effluent made? _____ Electrical log depths _____ Temperature log depths _____

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 Jim Moore Position Maint. Mgr. Date 12-16-97

GEOHERMAL RESOURCES WELL HISTORY

Operator ALEX R. MASSON, INC Address DRAWER F LINCOLN, KS 66052
Lease Name _____ Well No. 32
Unit Letter _____ Sec. 10 Twp. 21S Rge. 1W
Reservoir RADIUM SPRINGS 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 10-29-97 Commenced Drilling
10-3-97 Completed Drilling
Casing 12" F.C. 188 well 300' deep, no shoe 24 cu ft
Cement pump

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 Jim Moore Position Maint Mgr. Date 12-16-97

MONTHLY GEOTHERMAL PRODUCTION REPORT

SUBMIT IN DUPLICATE

Month of 5-3-03 To 6-8-03

Operator Alex R. Masson					Address P.O. Box 20 Radium Springs N.M. 88054									
Lease Name Masson					Reservoir Radium Springs KGRA					County Dona Ana				

NOTE: Report actual production (NOT SALES). Use Form G-109 for water injection wells.

Well No.	Unit Ltr.	Sec.	Twp.	Rge	Total mass produced (Lbs x 10 ⁶)	Dry steam produced (Lbs x 10 ⁶)	Flow temp. (°F)	Flow pres. (psig)	Water produced (acre-feet)	Minerals produced (type and tons)	Method of Prod (F. or P.)	No. days well prod	If well not on production, state reason
33		10	21S										Back up
34		10	21S				194				P		
meter still out.													
22	Inactive ↓												
23													
26													
28													
30													
31													
32													
TOTALS													

Masson Farms of New Mexico, Inc.
2100 C.R. D061
P.O. Box 20
Radium Springs, N.M. 88054

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

Richard Price
(Signature)

MAINTENANCE
(Title)

6-12-03
(Date)

SUBMIT IN DUPLICATE

Month of 3-10-03 to 4-3-03

Address P.O. Box 20 Radium Springs N.M. 88054

Reservoir
Radum Springs KGRA

County Dona Ana

NOTE: Report actual production (NOT SALES). Use Form G-109 for water injection wells.

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

Richard Pierce
(Signature) Massor

Masson Farms of New Mexico, Inc. (Title)
2100 C.R. D061
P.O. Box 20
Radium Springs, N.M. 88054

4-4-03
(Date)

MONTHLY GEOTHERMAL PRODUCTION REPORT

SUBMIT IN DUPLICATE

Month of 7/14/02 - 8/14/02

Operator Alex R. Masson

Address P.O. Box 20 Radium Springs, N.M. 88054

Lease Name Masson

Reservoir Radium Springs KGRH

County Dona Ana

NOTE: Report actual production (NOT SALES). Use Form G-109 for water injection wells.

Well No.	Unit Ltr.	Sec.	Twp.	Rge	Total mass produced (Lbs x 10 ⁶)	Dry steam produced (Lbs x 10 ⁶)	Flow temp. (°F)	Flow pres. (psig)	Water produced (acre-feet)	Minerals produced (type and tons)	Method of Prod (F. or P.)	No. days well prod	If well not on production, state reason
32		10	21S	IW			159				P		
33		10	21S	IW									Backup
34		10	21S	IW									Backup
22													
23													
26													
28													
30													
31													
TOTALS													

Inactive

Production meter
is still out of
service.

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

(Signature)

Masson Farms of New Mexico, Inc.
2100 C.R. D061
P.O. Box 20
Radium Springs, N.M. 88054

(Title)

(Date)

8-14-02

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTOIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form G-101
Adopted 10-1-74
Revised 10-1-78

NO. OF COPIES RECEIVED	
DISTRIBUTION	
File	
N.M.B.M.	
U.S.G.S.	
Operator	
Land Office	

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

5. Indicate Type of Lease

STATE ☐ FEE ☒

5.a State Lease No.

7. Unit Agreement Name

N/A

8. Farm or Lease Name

MASSON

9. Well No.

33

10. Field and Pool, or Wildcat

RADIUM SPGS, KGR

13. County

DONA ANA

1a. Type of Work Drill ☒ Deepen ☐ Plug Back ☐b. Type of Well Geothermal Producer ☒ Temp Observation ☐Low-Temp Thermal ☐ Injection/Disposal ☐

2. Name of Operator ALEX R. MASSON, INC

3. Address of Operator DRAWER F LINWOOD KANSAS

4. Location of Well UNIT LETTER _____ LOCATED 16.98 FEET FROM THE N LINE

AND 1852.11 FEET FROM THE E LINE OF SEC. 10 TWP. 21S R05. 1W NMPM

19. Proposed Depth

300

19A. Formation

20. Rotary or C.T.

ROTARY

21. Elevations (Show whether DF, RT, etc.)

4055

21A. Kind & Status Plug. Bond

21B. Drilling Contractor

K.D. HUEY CO

22. Approx. Date Work will start

10-3-97

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
17 1/2"	12 3/4"	25.22	40'	32	SURFACE

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 Brian A. FitzgeraldTitle 11/15/97 OperatorDate 11/15/97

(This space for State Use)

APPROVED BY

[Signature]

TITLE

DISTRICT SUPERVISOR

DATE

12/29/97

CONDITIONS OF APPROVAL, IF ANY:

GEOTHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

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

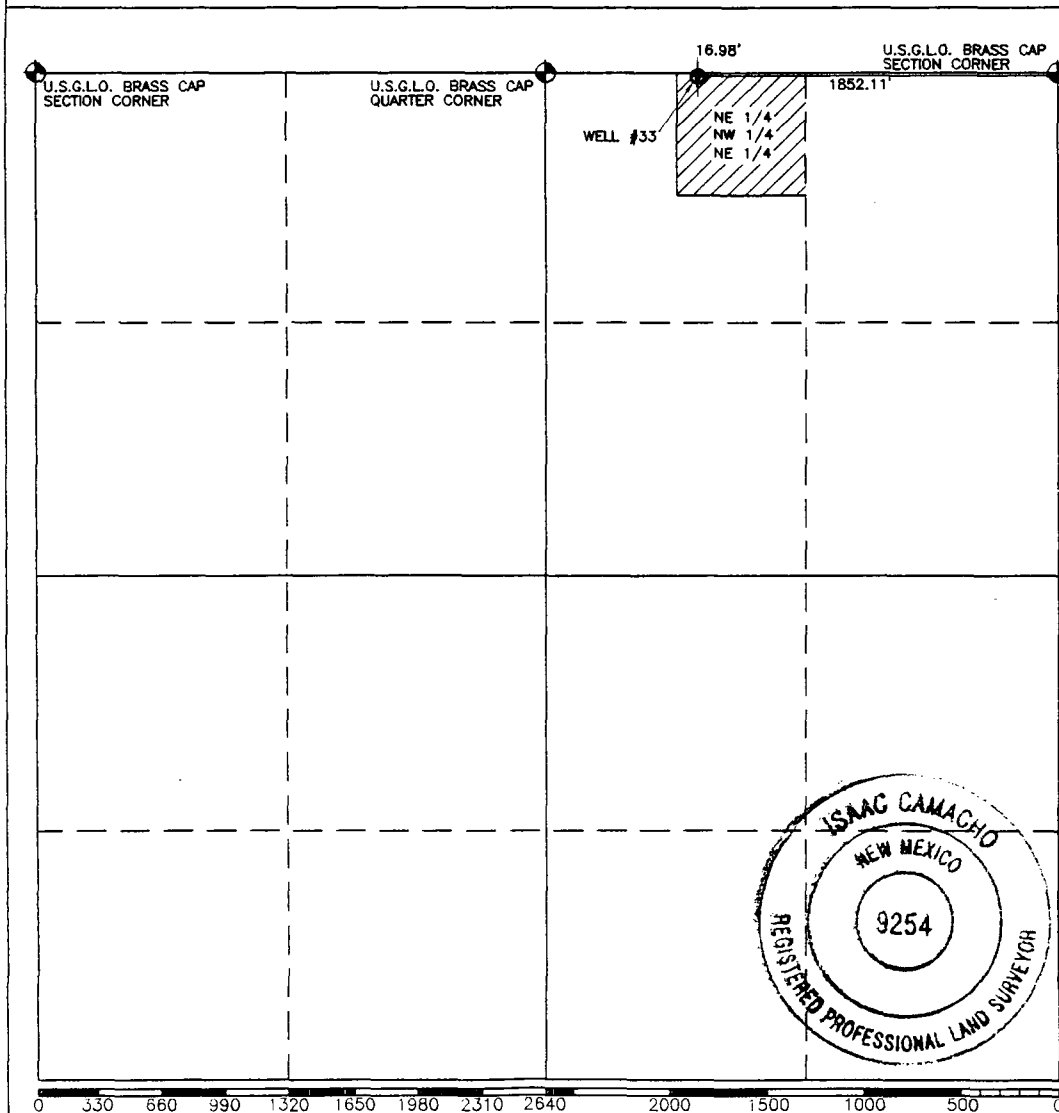
Operator ALEX R. MASON, INC.		Lease		Well no. 33	
Unit Letter	Section 10	Township 21 SOUTH	Range 1 WEST	County DONA ANA	
Actual Footage Location of Well: 16.98 feet from the NORTH line and 1852.11 feet from the EAST line					
Ground Level Elevation 4055	Producing Formation		Pool RADIUM SPRINGS	Dedicated Acreage: 10 Acres	

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 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 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 Division.



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 of under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

NOVEMBER 10, 1997

Registered Professional Engineer
and/or Land Surveyor

Isaac Camacho

Certificate No.

N.M.P.S. NO. 9254

GEOTHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

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

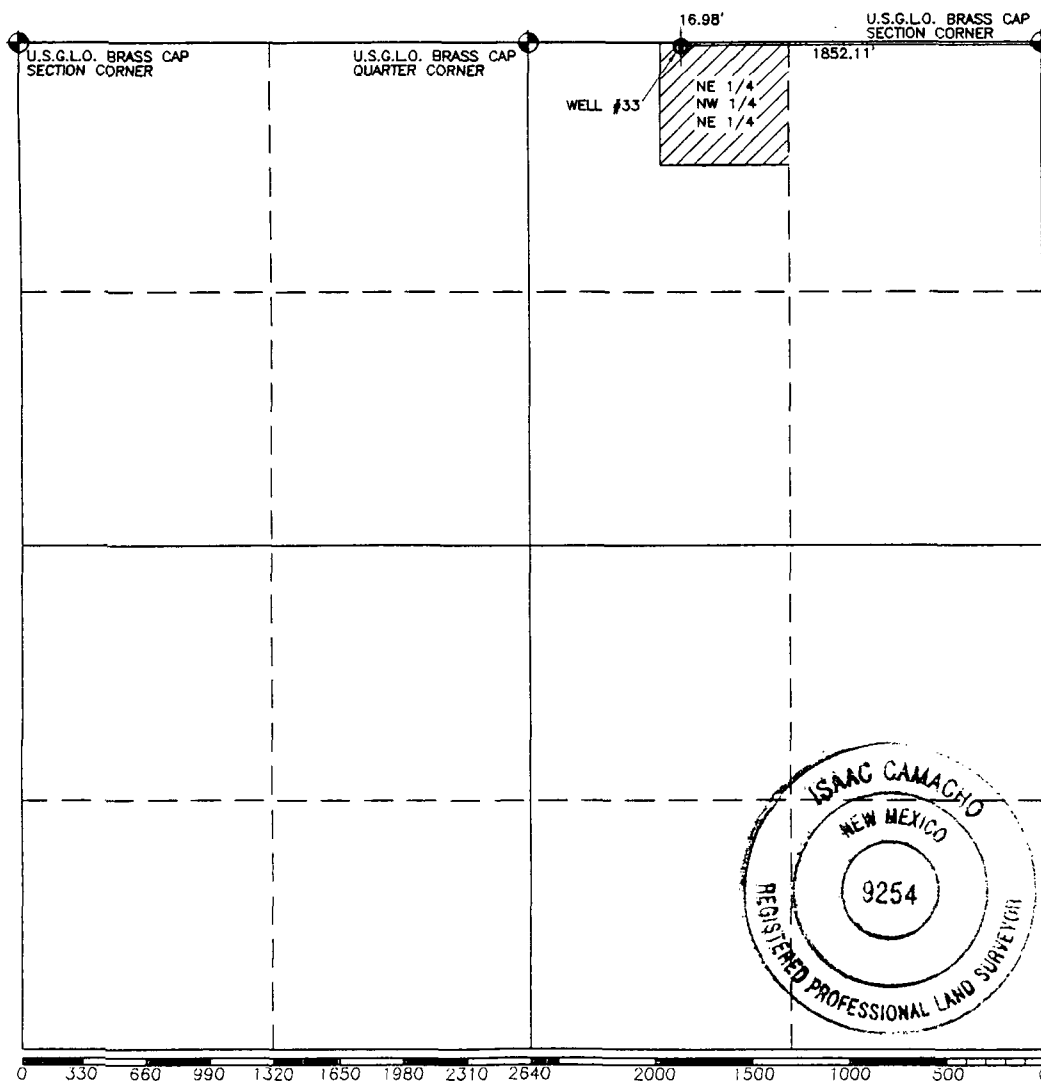
Operator ALEX R. MASON, INC.		Lease		Well no. 33	
Unit Letter	Section 10	Township 21 SOUTH	Range 1 WEST	County DONA ANA	
Actual Footage Location of Well: 16.98 feet from the NORTH line and 1852.11 feet from the EAST line					
Ground Level Elevation 4055	Producing Formation		Pool RADIUM SPRINGS	Dedicated Acreage: 10 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 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 Division.



CERTIFICATION

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

Name Jim Moore
Position Manager
Company Alex R. Mason, Inc.
Date 12-16-97

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 NOVEMBER 10, 1997
Registered Professional Engineer and/or Land Surveyor
Isaac Camacho
Certificate No. _____

N.M.P.S. NO. 9254

NO. OF COPIES RECEIVED	
DISTRIBUTION	
File	
N. M. B. N.	
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 ☒
5.1 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
N/A

2. Name of Operator
Alex. R. Masson, Inc.

8. Farm or Lease Name
MASSON

3. Address of Operator
Drawer F, Linwood KS 66052

9. Well No.
33

4. Location of Well
Unit Letter 16.98 Feet From The NORTH Line and 1852.11 Feet From
The EAST Line, Section 10 Township 21 S Range 1 W NMPM.

10. Field and Pool, or Wildcat
Radium Springs

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

12. County
Deer Ariz

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 ☐

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.)

Drilling Start on 10-3-97 and complete on 10-9-97 Low temp Geothermal well drilled to 300 feet and cased with 12" fiberglass to the bottom. The casing is perforated from 200' to 300' and the Goulds 10 Hc turbine pump is set at 240' with 6" x 10' column pipe below the pump making the intake level 250'
Projected gpm to be 350 to 450

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

SIGNED Jim Moore TITLE Maint Mgr. DATE 12-16-97

APPROVED BY R. E. Johnson TITLE DISTRICT SUPERVISOR DATE 12/29/97

CONDITIONS OF APPROVAL IF ANY:

OIL CONSERVATION DIVISION

P. O. BOX 2088

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

Form G-104
Adopted 10-1-74
Revised 10-1-78CERTIFICATE OF COMPLIANCE
AND AUTHORIZATION TO PRODUCE
GEOTHERMAL RESOURCES

OWNER OR OPERATOR

Name

ALEX R MASSON INC

Address

DRAWER F LINWOOD KS 66052

TYPE OF WELL

Geothermal Producer ☐Low-Temperature Thermal ☒Injection/Disposal ☐

REASON FOR FILING

New Well ☒Recompletion ☐Change in Ownership ☐Designation of Purchaser ☐

Other (Please Explain)

☐

DESCRIPTION OF WELL

Lease

Well

33

Name of

Name

No.

Reservoir

RADON SPRINGS

Kind of Lease

Lease

(Fee, Fed. or State)

Number

LOCATION

Unit

Letter

16.98

feet from the

NORTH

line and

1852.11

feet from the

EAST

line of

Section

10

Township

21S

Range

1W

County

DONA ANA

TYPE OF PRODUCT

Dry

Steam and

Low Temp.

Steam

Water

Thermal Water

☒

DESIGNATION OF PURCHASER OF PRODUCT

Name of

Purchaser

ALEX R MASSON INC

Address of

Purchaser

DRAWER F LINWOOD KS. 66052

Product Will

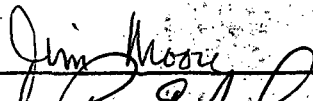
Be Used For

GREEN HOUSE HEATING

CERTIFICATE OF COMPLIANCE

I hereby certify that all rules and regulations concerning geothermal resources wells in the State of New Mexico, as promulgated by the Oil Conservation Division of New Mexico, have been complied with, with respect to the subject well, and that the information given above is true and complete to the best of my knowledge and belief.

Signed



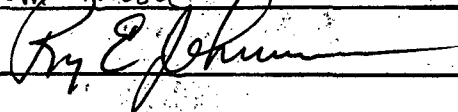
Position

District Mgr.

Date

12-16-97

Approved



DISTRICT SUPERVISOR

GEOHERMAL RESOURCES WELL LOG

Operator Alex. R. Masson, Inc.
Address Dravel F. Linwood, KS 66052
Reservoir Radium Springs
Lease Name _____ Well No. 33 Unit Letter _____
Location: 16.98 feet from the North line and _____
1852.11 feet from the EAST line Section 10
Township 21S Range 1 W. County Dona Ana

FORMATIONS PENETRATED BY WELL

DEPTH TO		Thickness	Drilled or Cored	Recovery	DESCRIPTION
Top of Formation	Bottom of Formation				
0	36	36			SAND, GRAVEL, BOULDERS
36	170	134			Purple to Gray Shale
170	300	130			Purple Rhyolite

Attach Additional Sheets if Necessary

This form must be accompanied by copies of electric logs, directional surveys, physical or chemical logs, water analyses, tests, and temperature surveys (See Rule 205).

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 Jim Moore Position Manager Date 12-16-97

GEOHERMAL RESOURCES WELL SUMMARY REPORT.

Operator ALEX R. MASSON Address DRAWER F LINWOOD KS. 66052
Lessee Name _____ Well No. 33
Unit Letter _____ Sec. 10 Twp. 21 S. Rge. 1 W
Reservoir RADIUM SPRINGS County DONA ANA

Commenced drilling 10-3-97 GEOLOGICAL MARKERS _____ DEPTH _____
Completed drilling 10-9-97
Total depth 300' Mugged depth _____
Junk NONE
Commenced producing _____ 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

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
18"	16"	36.87		NEW		NONE		24	SURFACE	VISUALLY
	12"	F.6.		NEW		CAPPED				

PERFORATED CASING

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

12" F.6. 200' To 300 feet

Was analysis of effluent made? _____ Electrical log depths _____ Temperature log depths _____

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 Jim Moore Position Manit Mgr. Date 12-16-97

GEOHERMAL RESOURCES WELL HISTORY

Operator ALEX R. MASSON, INC Address DRAWER F LINWOOD KS 66052
Lease Name _____ Well No. _____
Unit Letter _____ Sec. 10 Twp. 21 S Rge. 1 W
Reservoir RADIUM SPRINGS 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

10-3-97 Commenced Drilling

10-9-97 Completed Drilling

Casing 12" F.G. .188 wall 300' deep, NO Shoe
24 cu ft cement, pump

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

Jim Moore

Position

Marrit Ings

Date

12-16-97

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTOIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form 6-101
Adopted 10-1-76
Revised 10-1-78

NO. OF COPIES RECEIVED	
DISTRIBUTION	
File	
N.M.B.M.	
U.S.G.S.	
Operator	
Land Office	

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"/>
b. Type of Well	Geothermal Producer <input checked="" type="checkbox"/>	Temp Observation <input type="checkbox"/>	
	Low-Temp Thermal <input type="checkbox"/>	Injection/Disposal <input type="checkbox"/>	

7. Unit Agreement Name	N/A
8. Farm or Lease Name	MASSON

2. Name of Operator	ALEX R. MASSON, INC
3. Address of Operator	DRAWER F LINWOOD KANSAS
4. Location of Well	UNIT LETTER _____ LOCATED 36.12 FEET FROM THE NORTH LINE AND 1632.04 FEET FROM THE E. LINE OF SEC. 10 TWP. 21S RGE. 1W. NMPM

9. Well No.	34
10. Field and Pool, or Wildcat	RADIUM SP6S1 KGR
12. County	DONA ANA

19. Proposed Depth	300	19A. Formation		20. Rotary or C.T.	ROTARY
21. Elevations (Show whether DF, RT, etc.)	3999	21A. Kind & Status Plug. Bond		21B. Drilling Contractor	K.D. HUEY CO.
				22. Approx. Date Work will start	10-9-97

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
7 7/8"	8 3/8"	19.64	5'		

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 Bruce A. [Signature] Title Operator Date 11/15/97

(This space for Stamp Use)

APPROVED BY [Signature] TITLE DISTRICT SUPERVISOR DATE 12/29/97

CONDITIONS OF APPROVAL, IF ANY:

GEOTHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

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

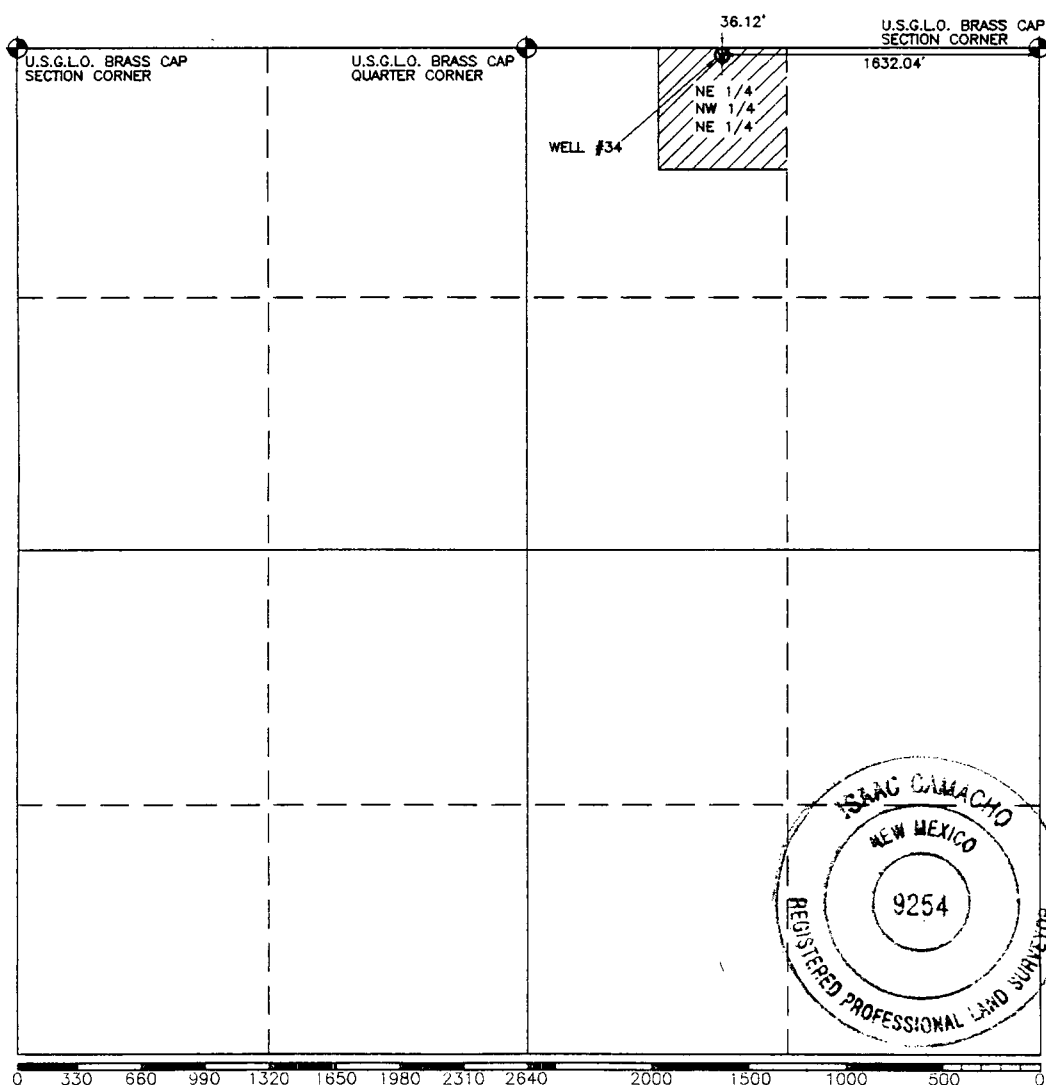
Operator ALEX R. MASON, INC.		Lease		Well no. 34	
Unit - Letter	Section 10	Township 21 SOUTH	Range 1 WEST	County DONA ANA	
Actual Footage Location of Well: 36.12 feet from the NORTH line and 1632.04 feet from the EAST line					
Ground Level Elevation 3999	Producing Formation		Pool RADIUM SPRINGS		Dedicated Acreage: 10 Acres

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

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

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (use reverse side of 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 Division.



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 of under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed _____

NOVEMBER 10, 1997

Registered Professional Engineer
and/or Land Surveyor*Isaac Camacho*

Certificate No. _____

N.M.P.S. NO. 9254

GEOTHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

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

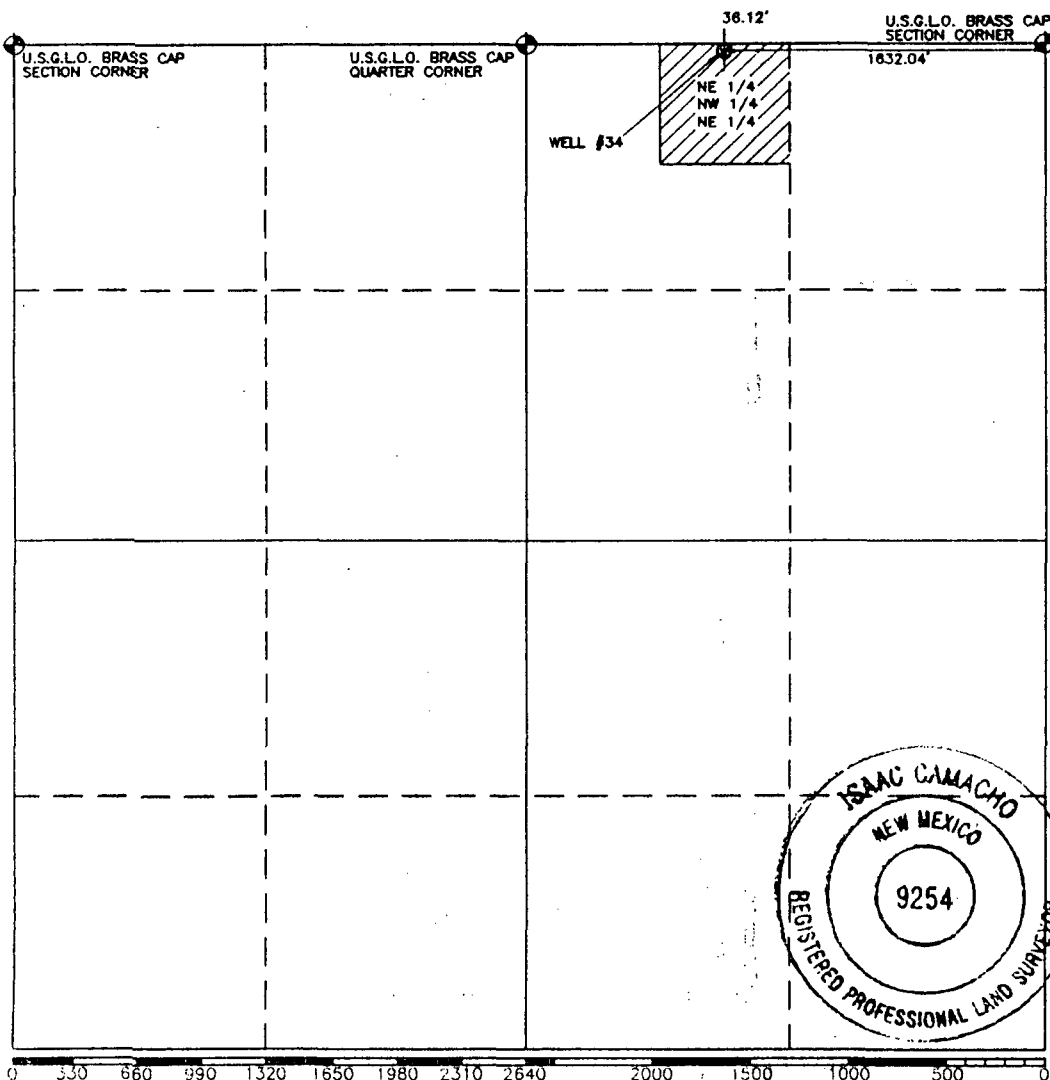
Operator ALEX R. MASON, INC.		Lease		Well no. 34	
Unit Letter	Section 10	Township 21 SOUTH	Range 1 WEST	County DONA ANA	
Actual Footage Location of Well: 36.12 feet from the NORTH line and 1632.04 feet from the EAST line					
Ground Level Elevation 3999	Producing Formation		Pool RADIUM SPRINGS	Dedicated Acreage: 10 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 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 Division.



CERTIFICATION

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

Name Jim Moore
Position Manager
Company Alex R. Mason, Inc.
Date 12-16-97

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 NOVEMBER 10, 1997
Registered Professional Engineer and/or Land Surveyor Isaac Camacho
Certificate No. _____

N.M.P.S. NO. 9254

GEOTHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

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

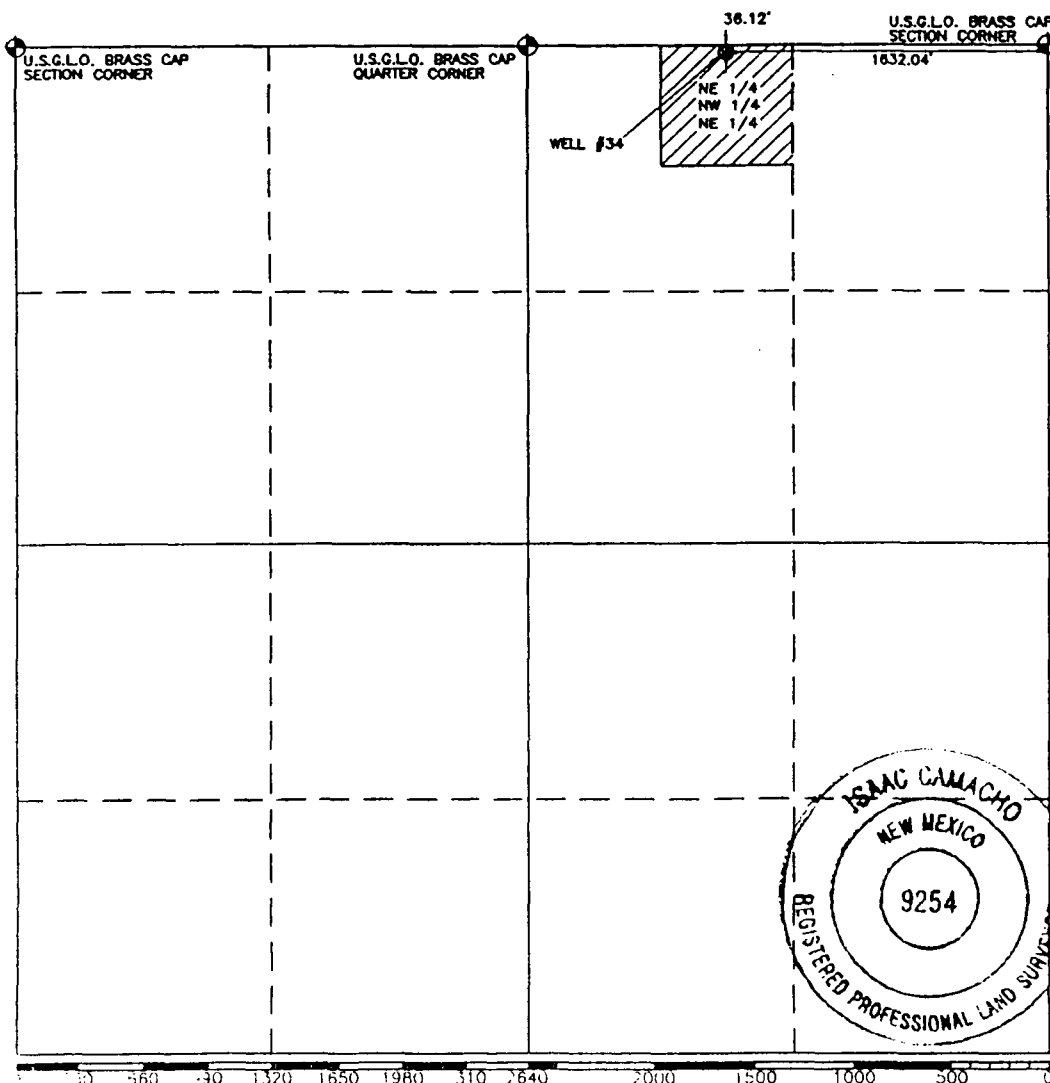
Operator ALEX R. MASON, INC.		Lease		Well no. 34	
Unit Letter	Section 10	Township 21 SOUTH	Range 1 WEST	County DONA ANA	
Actual Footage Location of Well: 36.12 feet from the NORTH line and 1632.04 feet from the EAST line					
Ground Level Elevation 3999	Producing Formation		Pool RADIUM SPRINGS	Dedicated Acreage: 10 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 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 Division.



CERTIFICATION

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

Name Jim Moore
Position Minist Mgr.
Company Alex R. Mason, Inc.
Date 12-16-97

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 NOVEMBER 10, 1997
Registered Professional Engineer and/or Land Surveyor
Isaac Camacho
Certificate No. _____

N.M.P.S. NO. 9254

NO. OF COPIES RECEIVED	
DISTRIBUTION	
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.

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 ☐
2. Name of Operator Alex. R. Masson, Inc.
3. Address of Operator Drawer F, Linwood KS 66052
4. Location of Well Unit Letter 36.12 Feet From The NORTH Line and 1632.04 Feet From
The EAST Line, Section 10 Township 21 South Range 1 West NMPM.

7. Unit Agreement Name
N/A
8. Farm or Lease Name
MASSON
9. Well No.
34

10. Field and Pool, or Wildcat
Radium Springs

15. Elevation (Show whether DF, RT, GR, etc.)
3999 GR

12. County
Doña 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 ☐

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.

Drilling start on 10-9-97 and complete on 10-14-97
8 5/8" casing to 5', depth of hole 300 feet. Test hole only
no further work done on this hole

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

SIGNED Jim Moore TITLE Manit Mgr DATE 12-16-97

APPROVED BY _____ TITLE DISTRICT SUPERVISOR DATE _____

CONDITIONS OF APPROVAL, IF ANY:

OIL CONSERVATION DIVISION

P. O. BOX 2088

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

Form G-104
Adopted 10-1-74
Revised 10-1-78CERTIFICATE OF COMPLIANCE
AND AUTHORIZATION TO PRODUCE
GEOTHERMAL RESOURCES

OWNER OR OPERATOR

Name

Alex R. Masson Inc.

Address

Drawer F Linwood KS 66052

TYPE OF WELL

Geothermal Producer ☐Low-Temperature Thermal ☒Injection/Disposal ☐

REASON FOR FILING

New Well ☒Recompletion ☐Change in Ownership ☐Designation of Purchaser ☐

Other (Please Explain)

☐

DESCRIPTION OF WELL

Lease

Well

34

Name of

Name

No.

Reservoir

Radium Springs

Kind of Lease

Lease

(Fee, Fed. or State)

Number

LOCATION

Unit

Letter

36.12

feet from the

North

line and

1632.04

feet from the

East

line of

Section

10

Township

21 South

Range

1 West

County

DONA ANA

TYPE OF PRODUCT

Dry

Steam and

Low Temp.

Steam

Water

Thermal Water

☒

DESIGNATION OF PURCHASER OF PRODUCT

Name of

Purchaser

Alex R. Masson Inc.

Address of

Purchaser

Drawer F Linwood KS. 66052

Product Will

Be Used For

GREEN HOUSE HEATING

CERTIFICATE OF COMPLIANCE

I hereby certify that all rules and regulations concerning geothermal resources wells in the State of New Mexico, as promulgated by the Oil Conservation Division of New Mexico, have been complied with, with respect to the subject well, and that the information given above is true and complete to the best of my knowledge and belief.

Signed

Jim Moore

Position

District Supervisor

Date

12-16-97

Approved

[Signature]

DISTRICT SUPERVISOR

GEOHERMAL RESOURCES WELL LOG

Operator Alex R. Masson Inc.
Address DIAMOND F. LINWOOD KS 66052
Reservoir Radium Springs
Lease Name _____ Well No. _____ Unit Letter _____
Location: _____ feet from the _____ line and _____
_____ feet from the _____ line Section _____
Township _____ Range _____ County _____

FORMATIONS PENETRATED BY WELL

DEPTH TO		Thickness	Drilled or Cored	Recovery	DESCRIPTION
Top of Formation	Bottom of Formation				
0	25	25			PURPLE SHALE
25	190	165			GRAY TO PURPLE SHALE
190	208	18			YELLOW RHYOLITE
208	212	4			PURPLE RHYOLITE
212	225	13			RED TO PURPLE RHYOLITE
225	300	75			PURPLE TO GRAY RHYOLITE

Attach Additional Sheets if Necessary

This form must be accompanied by copies of electric logs, directional surveys, physical or chemical logs, water analyses, tests, and temperature surveys (See Rule 205).

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 Jim Moore Position Plant Mgr. Date 12-16-97

GEOHERMAL RESOURCES WELL SUMMARY REPORT.

Operator ALEX R. MASSON, INC Address DRAWER F LINWOOD, KS 66052
Lease Name _____ Well No. 34
Unit Letter _____ Sec. 10 Twp. 21 S. Rge. 1 W
Reservoir RADIUM SPRINGS County DONA ANA

Commenced drilling 10-9-97 GEOLOGICAL MARKERS _____ DEPTH _____
Completed drilling 10-14-97 _____
Total depth 300' Plugged depth _____
Junk _____
Commenced producing _____ 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/ft	Temp. °F	Pres. Psig.	Enthalpy	Orifice	Water cuft/Hr	Steam Lbs/Hr	Pres. Psig.	Temp. °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
	<u>8 5/8</u>	<u>19.64</u>		<u>NEW</u>		<u>NONE</u>				

PERFORATED CASING

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

Was analysis of effluent made? No Electrical log depths _____ Temperature log depths _____

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 Jim Moore Position Manager Date 12-16-97

GEOHERMAL RESOURCES WELL HISTORY

Operator ALEX R. MASSON Address DRAWER F LINWOOD, KS 66052
Lease Name _____ Well No. 34
Unit Letter _____ Sec. 10 Twp. 21 S Rge. 1 W
Reservoir RADIUM SPRINGS 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

10-9-97

Commenced Drilling

10-14-97

Completed Drilling 8 5/8" casing to 5 feet - test hole only

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

Jim Kiser

Position

Plant Mgr.

Date

12-16-97

FLOWERING & TROPICAL FOLIAGE PLANTS

JIM MOORE

Sunflower Sue.



MAINTENANCE
MANAGER

NOTE:
NEW LEGAL

ALEX R. MASSON, INC.
P.O. Box 20
Radium Springs, NM 88054

GROWN JUST FOR YOU

505-524-1791
FAX 505-526-1050

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTOIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form 6-101
Adopted 10-1-74
Revised 10-1-78

NO. OF COPIES RECEIVED	
DISTRIBUTION	
File	
N.M.B.M.	
U.S.G.S.	
Operator	
Land Office	

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

5. Indicate Type of Lease

STATE ☐ FEE ☒

5.a State Lease No.

7. Unit Agreement Name

N/A

8. Farm or Lease Name

MASSON

9. Well No.

35

10. Field and Pool, or Wildcat

RADIUM SPGS, KGR

12. County

DONA ANA

1a. Type of Work Drill ☒ Deepen ☐ Plug Back ☐

b. Type of Well Geothermal Producer ☐ Temp Observation ☐
Low-Temp Thermal ☐ Injection/Disposal ☒

2. Name of Operator ALEX R. MASSON, INC

3. Address of Operator DRAWER F LINWOOD KANSAS

4. Location of Well UNIT LETTER _____ LOCATED 523.66 FEET FROM THE NORTH LINE
AND 2461.19 FEET FROM THE W LINE OF SEC. 10 TWP. 21S. RGE. 1 W NMPM

19. Proposed Depth 300

19A. Formation

20. Rotary or C.T. ROTARY

21. Elevations (Show whether DF, RT, etc.) 3974

21A. Kind & Status Plug. Bond

21B. Drilling Contractor K.D. HUEY Co.

22. Approx. Date Work will start 11-25-97

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
17 1/2"	12 3/4"	25.22	40'	32	SURFACE

N 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 Bruce A. Fitzgerald Title Operator Date 11/15/97

APPROVED BY [Signature] TITLE DISTRICT SUPERVISOR DATE 12/29/97

CONDITIONS OF APPROVAL, IF ANY:

GEOTHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

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

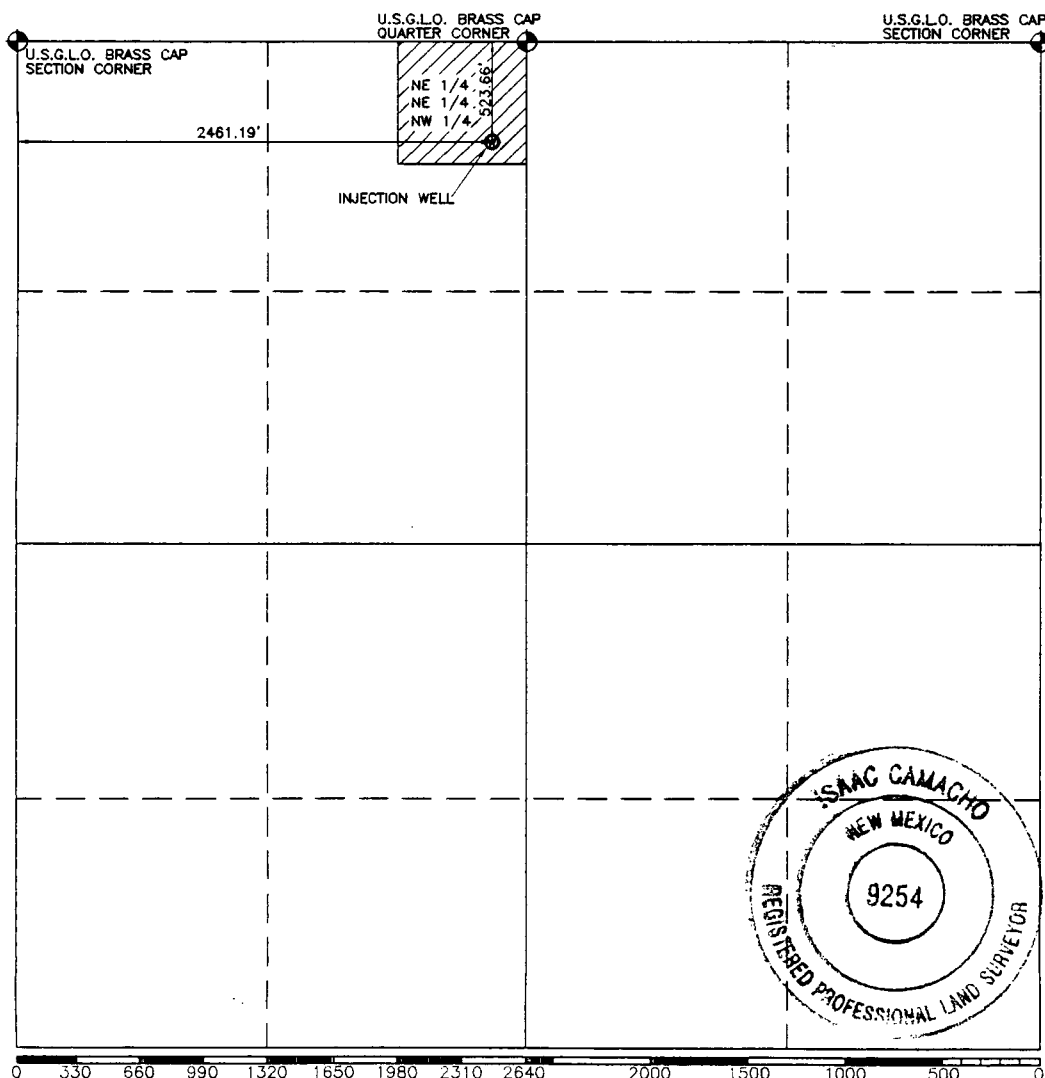
Operator ALEX R. MASON, INC.		Lease		Well no. INJECTION WELL
Unit Letter	Section 10	Township 21 SOUTH	Range 1 WEST	County DONA ANA
Actual Footage Location of Well: 523.66 feet from the NORTH line and 2461.19 feet from the WEST line				
Ground Level Elevation 3974	Producing Formation		Pool RADIUM SPRINGS	Dedicated Acreage: 10 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 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 Division.



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.

Date Surveyed

NOVEMBER 14, 1997

Registered Professional Engineer
and/or Land Surveyor*Isaac Camacho*

Certificate No.

N.M.P.S. NO. 9254

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form 6-301
Adopted 10-1-76
Revised 10-1-78

NO. OF COPIES RECEIVED	
DISTRIBUTION	
File	
N.M.B.M.	
U.S.G.S.	
Operator	
Land Office	

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

5. Indicate Type of Lease

STATE ☐ FEE ☒

5.a State Lease No.

7. Unit Agreement Name

N/A

8. Farm or Lease Name

MASSON

9. Well No.

35

10. Field and Pool, or Wildcat

RADIUM SPGS, KGR

13. County

DONA ANA

1a. Type of Work Drill ☒ Deepen ☐ Plug Back ☐

b. Type of Well Geothermal Producer ☐

Temp Observation ☐

Low-Temp Thermal ☐

Injection/Disposal ☒

2. Name of Operator ALEX R. MASSON, INC

3. Address of Operator DRAWER F LINWOOD KANSAS

4. Location of Well UNIT LETTER LOCATED 443.0 FEET FROM THE NORTH LINE

AND 2621.5 FEET FROM THE W LINE OF SEC. 10 TWP. 21 S. RGE. 1 W NMPM

19. Proposed Depth

300

19A. Formation

20. Rotary or C.T.

ROTARY

21. Elevations (Show whether DF, RT, etc.)

3984

21A. Kind & Status Plug. Band

21B. Drilling Contractor

K.D. HUEY CO

22. Approx. Date Work will start

11-25-97

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
17 1/2"	12 3/4"	25.22	40'	32	SURFACE

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 Bruce A. Fitzgerald Title Operator Date 11/15/97

(This space for State Use)

APPROVED BY

TITLE

DISTRICT SUPERVISOR

DATE

12/29/97

CONDITIONS OF APPROVAL, IF ANY:

GEOTHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

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

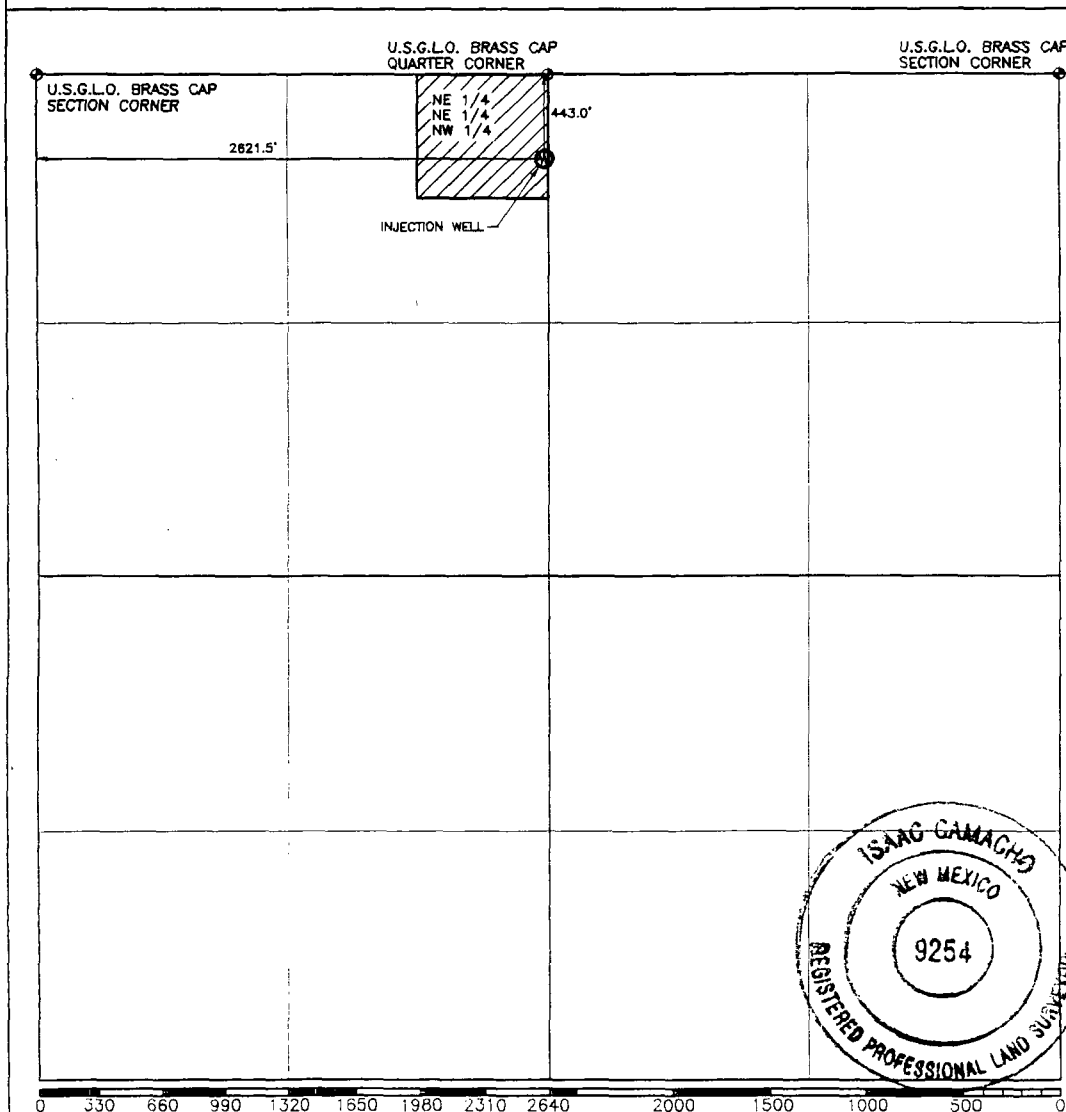
Operator ALEX R. MASSON, INC.		Lease		Well no. INJECTION WELL	
Unit Letter	Section 10	Township 21 SOUTH	Range 1 WEST	County DONA ANA	
Actual Footage Location of Well: 443.0 feet from the NORTH line and 2621.5 feet from the WEST line					
Ground Level Elevation 3984	Producing Formation		Pool RADIUM SRPINGS	Dedicated Acreage: 10 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 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 Division.



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.

Date Surveyed _____

FEBRUARY 12, 1998

Registered Professional Engineer
and/or Land Surveyor

ISAAC CAMACHO
ISAAC CAMACHO

Certificate No. _____

N.M.P.S. NO. 9254

NEW MEXICO OIL CONSERVATION COMMISSION
P. O. Box 2088, Santa Fe 87501SUNDRY NOTICES AND REPORTS
ON
GEOTHERMAL RESOURCES WELLS

NO. OF COPIES RECEIVED		
DISTRIBUTION		
File		
N. M. B. M.		
U. S. G. S.		
Operator		
Land Office		

5. 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

N/A

2. Name of Operator
Alex. R. Masson, Inc.

8. Farm or Lease Name

MASSON

3. Address of Operator
Drawer F, Linwood KS 66052

9. Well No.

35

4. Location of Well
Unit Letter 443.0 Feet From The NORTH Line and 2621.5 Feet From10. Field and Pool, or Wildcat
Radium Springs

The WEST Line, Section 10 Township 21 S Range 1 W NMPM.

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

3984 GR.

12. County

Deer Arc

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 _____

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.

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

SIGNED Jim Moore TITLE Maint. Mgr. DATE 1-26-98

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

GEOHERMAL RESOURCES WELL LOG

Operator Alex R. Masson Inc.
Address Dravel F. Linwood KS 66052
Reservoir Radium Springs
Lease Name MASSON Well No. 35 Unit Letter
Location: 443.0 feet from the NORTH line and 2621.5 feet from the WEST line Section 10
Township 21 S. Range 1 W. County DONA ANA

FORMATIONS PENETRATED BY WELL

DEPTH TO		Thickness	Drilled or Cored	Recovery	DESCRIPTION
Top of Formation	Bottom of Formation				
0	2'	2			SAND, GRAVEL, BOULDERS
2'	13'	11			GRAY TO PURPLE SHALE
13'	100'	87			RYHOLITE

Attach Additional Sheets if Necessary

This form must be accompanied by copies of electric logs, directional surveys, physical or chemical logs, water analyses, tests, and temperature surveys (See Rule 205).

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 Jim Moore Position Maint. Mgr. Date 2.25.98

GEOHERMAL RESOURCES WELL SUMMARY REPORT.

Operator ALEX R. MASSON Address P.O. Box 20 RADIUM SPRINGS, NM 88054
Leas Name _____ Well No 35
Unit Letter _____ Sec. 10 Twp. 213 Rge 1W
Reservoir RADIUM SPRINGS County DONA ANA

Commenced drilling 1-26-98 GEOLOGICAL MARKERS _____ DEPTH _____
Completed drilling 2-10-98
Total depth 100' Mugged depth _____
Junk _____
Commenced producing _____ 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/lt	Temp. °F	Pres. Psig.	Enthalpy	Orifice	Water cuft/ltr	Steam Lbs/ltr	Pres. Psig.	Temp. °F	

CASING RECORD (Present 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
17 1/4	16"	42.05	P	NEW	NONE	0			
17 1/4	12" I.D.	F.G.		NEW		0	32	SURFACE	VISUAL

PERFORATED CASING

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

12" F.G. PERF 17' to 100'

Wax analysis of effluent made? _____ Electrical log depths _____ Temperature log depths _____

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 Jim Moore Position Plant Mgr. Date 2-25-98

GEOHERMAL RESOURCES WELL HISTORY

Operator Alex R. Masson Address P.O. Box 20 Radium Springs NM 88054
Lease Name _____ Well No. 35
Unit Letter _____ Sec. 10 Twp. 21 S Rge. 1 W
Reservoir RADIUM SPRINGS 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

1-26-98

Commenced Drilling

2-10-98

Completed Drilling

Casing 12" F.G. 188 well 100' deep no Shoe
24 cuft Cement Pump

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

Position

Date

APPLICATION TO PLACE WELL ON INJECTION-GEOTHERMAL RESOURCES AREA

Operator <u>ALAN R. MASSON</u>		Address <u>P.O. Box 20 RADIUM SPRINGS, NM. 88054</u>	
Lease Name	Well No. <u>35</u>	Field <u>Radium Springs</u>	County <u>Dona Ana</u>
Location Unit Letter _____ Well is Located <u>443.0</u> Feet From The <u>NORTH</u> Line And <u>2621.5</u> Feet From The <u>WEST</u> Line, Section <u>10</u> Township <u>21 S.</u> Range <u>1 WEST</u> NMPM.			

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
Conductor Pipe					
Surface Casing	<u>12 3/4"</u>	<u>100'</u>	<u>32</u>	<u>SURF.</u>	<u>CIRCULATION</u>
Long String					
Tubing			Name, Model and Depth of Tubing Packer		

Name of Proposed Injection Formation <u>RHYOLITE (PAKM PARK FORMATION)</u>		Top of Formation <u>13'</u>	Bottom of Formation <u>100'</u>
Is Injection Through Tubing, Casing, or Annulus? <u>CASING</u>		Perforations or Open Hole? <u>PERF.</u>	Proposed Interval(s) of Injection <u>13' - 100'</u>
Is This a New Well Drilled For Injection? <u>YES</u>	If Answer is No, For What Purpose was Well Originally Drilled?		Has Well Ever Been Perforated in Any Zone Other Than the Proposed Injection Zone? <u>NO</u>
List All Such Perforated Intervals and Sacks of Cement used to Seal Off or Squeeze Each			

Depth of Bottom of Deepest Fresh Water Zone in This Area		Is This Injection for Purpose of Pressure Maintenance or Water Disposal? (See Rules 501 and 502) <u>WATER DISPOSAL</u>			
Anticipated Daily Injection Volume	Minimum	Maximum	Open or Closed Type System <u>CLOSED</u>	Is Injection to be by Gravity or Pressure? <u>PRESSURE</u>	Approx. Pressure (psi) <u>15</u>
Answer Yes or No Whether the Following Waters are Mineralized to such a Degree as to be Unfit for Domestic, Stock, Irrigation, or Other General Use—		Water to be Injected <u>YES</u>		Natural Water in Injection Zone <u>YES</u>	Are Water Analyses Attached? <u>NO</u>

Name and Address of Surface Owner (or Lessee, if State or Federal Land) <u>HARRY N. BAILEY</u>	
List Names and Addresses of all Operators Within One-Half (1/2) Mile of This Injection Well <u>HUNT ENERGY CORP</u> <u>THOMAS F. RYAN</u> <u>HARRY N. BAILEY</u> <u>WM. H. DALY</u>	

Have Copies of This Application Been Sent to Each Operator Within One-Half Mile of This Well?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Are the Following Items Attached to this Application (see Rule 503)	Plat of Area Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Electrical Log Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Diagrammatic Sketch of Well Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

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

Jim Moore
(Signature)Maint. Mgr.
(Title)2.25.98
(Date)

NOTE: Should waivers from all operators within one-half mile of the proposed injection well not accompany this application, the New Mexico Oil Conservation Division will hold the application for a period of 20 days from the date of receipt by the Division's Santa Fe office. If at the end of the 20-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 503.