

GTLT - _____17_____

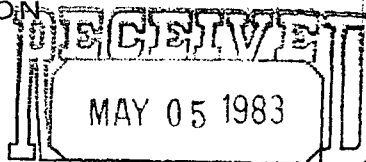
**Mountain Shadows
Development Ltd.
27-23S-2E
Dona Ana County**

Well Nos. 1 - 2

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

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



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

SUNDRY NOTICES AND REPORTS
ON
GEOTHERMAL RESOURCES WELLS

OIL CONSERVATION DIVISION
5. Indicate Type of Lease
State ☐ Fee ☒

5.a State Lease No.
N/A

NO. OF COPIES RECEIVED	
DISTRIBUTION	
File	<input checked="" type="checkbox"/>
N. M. B. M.	
U. S. G. S.	
Operator	
Land Office	

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
Mr. Samuel Jennings, Mountain Shadows Development Ltd.

8. Farm or Lease Name
MSDL-TG

3. Address of Operator
510 W. Amador Ave., Las Cruces, NM 88005

9. Well No.
1

4. Location of Well
Unit Letter F, 2,180 Feet From The West Line and 2,025 Feet From

10. Field and Pool, or Wildcat
Wildcat

The North Line, Section 27 Township 23S Range 2E NMPM.

15. Elevation (Show whether DF, RT, GR, etc.)
4,100

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.

Temperature gradient hole was plugged and abandoned in accordance with Oil Conservation Division regulations.
The PVC tubing was cut off 2 feet below the surface.
The top 8 feet of the PVC were filled with cement and the cement was allowed to overflow into the annular space to form a permanent cap.
The hole was backfilled and the surface reclaimed.
Plugging and abandonment took place on 3/24/83.

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

SIGNED Samuel Jennings TITLE General Partner DATE 29 Apr 83

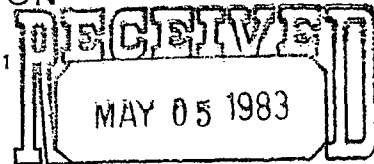
APPROVED BY Carl Wloog TITLE DISTRICT SUPERVISOR DATE 5/5/83

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 10-1-7
Revised 10-1-7

SUNDRY NOTICES AND REPORTS
ON
GEOTHERMAL RESOURCES WELLS

OIL CONSERVATION DIVISION
Indicate Type of Lease
SANTA FE ☐ Fee ☒

NO. OF COPIES RECEIVED	
DISTRIBUTION	
File	<input checked="" type="checkbox"/>
N. M. B. M.	
U. S. G. S.	
Operator	
Land Office	

5.a State Lease No.
N/A

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
Mr. Samuel Jennings, Mountain Shadows Development Ltd.

8. Farm or Lease Name
MSDL-TG

3. Address of Operator
510 W. Amador Ave., Las Cruces, NM 88005

9. Well No.
1

4. Location of Well
Unit Letter F, 2,180 Feet From The West Line and 2,025 Feet From
The North Line, Section 27 Township 23S Range 2E NMPM.

10. Field and Pool, or Wildcat
Wildcat

15. Elevation (Show whether DF, RT, GR, etc.)
4,100

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.

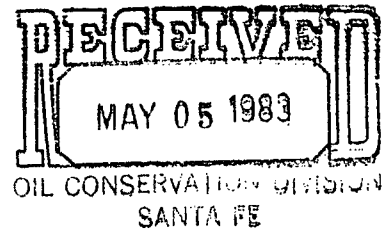
The hole was spudded on 2/7/83. A depth of 250 feet was reached. Drilling stopped on 2/7/83. 1½" PVC casing was placed in the hole. The annular space around the tubing was filled with drilling mud to 10 feet below the surface and with cement from 10 feet to 2 feet below the surface. No water was encountered.

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

SIGNED Samuel Jennings TITLE General Partner DATE 29 Apr 83

APPROVED BY Carl Woog TITLE DISTRICT SUPERVISOR DATE 5/5/83

CONDITIONS OF APPROVAL, IF ANY:



April 27, 1983

Mr. Carl Ulvog
Oil Conservation Division
P.O. Box 2088
Santa Fe, NM 87501

Dear Mr. Ulvog:

Please find enclosed the following documents:

- (1) G-103, Commence Drilling Operations
- (2) G-103, Plug and Abandonment
- (3) Cementer's Affidavit

As you will note, I have supplied all of the information that you requested in your letter dated 4/19/83. I hope that this information is sufficient to satisfy the Oil Conservation Division Rules and Regulations. Should there be any further requirements, please inform me as I intend to fully comply with the law.

Sincerely,



SAM JENNINGS

Enclosures

CEMENTER'S AFFIDAVIT

OPERATOR: Mr. Samuel Jennings
Mountain Shadows Development
510 W. Amador Ave.
Las Cruces, NM 88005

HOLE TYPE: Temperature Gradient

HOLE NUMBER: 1

LOCATION: Unit letter F, Section 27, Township 23S, Range 2E

PLUG: 1 bag Portland Cement
Approximately ~~15~~ gallons water

PLUG DATE: 3/24/83

CEMENTING COMPANY: LarJon Drilling Co.
P.O. Box 925
Mesilla Park, NM 88047

SIGNED Barry Johnson for LarJon Drilling Co.

DATE 4/29/83



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

TONEY ANAYA
GOVERNOR

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

April 19, 1983

Mr. Samuel Jennings
510 W. Amador Ave.
Las Cruces, New Mexico 88005

Dear Mr. Jennings:

Attached are copies of recently submitted Forms G-103. Approval of action reported there-in has been suspended, awaiting your compliance with Memorandum of 2/27/81, copy of which was attached to-and became a condition of OCD approval of-your permit to drill. Another copy of said Memorandum is enclosed for your convenience.

Please note that this memorandum is used as a convenience to the operator. Lacking such a proviso, the operator is subject to Rule 302 of the State Geothermal Regulations. However, the stipulation of above-mentioned memorandum waives only the PRIOR notification by filing Form G-103; it does not exempt an operator from submitting the data required by Rule 302.

Yours truly,

CARL ULVOG
Geothermal Supervisor

CU/jc

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

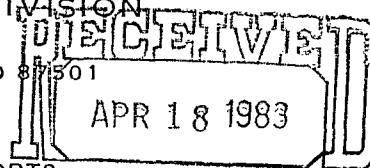
OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 871501

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

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N. M. B. M.		
U. S. G. S.		
Operator		
Land Office		



SUNDRY NOTICES AND REPORTS
ON
GEOHERMAL RESOURCES WELLS

Oil Conservation Division
Type of Lease
State ☐ Fee ☒

5.a State Lease No.
N/A

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
Mr. Samuel Jennings, Mountain Shadows Development Ltd.

8. Farm or Lease Name
MSDL-TG

3. Address of Operator
510 W. Amador Ave. Las Cruces, NM 88005

9. Well No.
1

4. Location of Well
Unit Letter F, 2180 Feet From The West Line and 2025 Feet From
The North Line, Section 27 Township 23S Range 2E NMPM.

10. Field and Pool, or Wildcat
Wildcat

15. Elevation (Show whether DF, RT, GR, etc.)
4100

12. County
Dona Ana

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

NOTICE OF INTENTION TO:

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

SUBSEQUENT REPORT OF:

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

7. 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.

Temperature gradient hole was plugged and abandoned in accordance with Oil Conservation Division regulations.

The PVC tubing was cut off 2 feet below the surface.
The top 8 feet of the PVC were filled with cement and the cement was allowed to overflow into the annular space to form a permanent cap.
The hole was backfilled and the surface reclaimed.

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

GNED Samuel Jennings TITLE General Partner DATE 13 Apr 83

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

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File	<input checked="" type="checkbox"/>
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 checked="" type="checkbox"/> Low-Temp Thermal <input type="checkbox"/> Injection/Disposal <input type="checkbox"/>		7. Unit Agreement Name N/A
2. Name of Operator Mr. Samuel Jennings, Mountain Shadows Development, Ltd.		8. Farm or Lease Name MSDL-TG
3. Address of Operator 510 W. Amador Ave., Las Cruces, New Mexico 88005		9. Well No. 1
4. Location of Well Unit Letter <u>F</u> located <u>2180</u> Feet From The <u>West</u> Line and <u>2025</u> Feet From The <u>North</u> Line, Section <u>27</u> Township <u>23S</u> Range <u>2E</u> NMPM.		10. Field and Pool, or Wildcat Wildcat
15. Elevation (Show whether DF, RT, GR, etc.) 4100 Feet		12. County Dona Ana

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

NOTICE OF INTENTION TO:

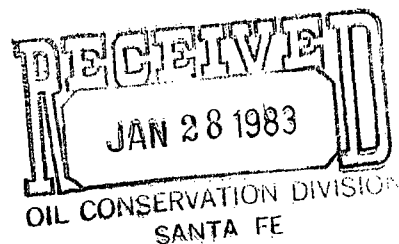
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input checked="" type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	
OTHER <input type="checkbox"/>	

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.

This hole was originally proposed to be drilled to 100 feet. It is now proposed that the hole be drilled to 250 feet. It is believed that this depth will provide more information for a geothermal temperature gradient. Should the water table be encountered before 250 feet drilling operations will cease within 20 feet.



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

SIGNED Samuel K. Jennings TITLE General Partner DATE 27 Jan 83

APPROVED BY Carl Ulvog TITLE DISTRICT SUPERVISOR DATE 1/28/83

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

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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
MSDL-TG

2. Name of Operator
Mr. Samuel Jennings, Mountain Shadows Development, Ltd.

9. Well No.
1

3. Address of Operator
510 W. Amador Ave., Las Cruces, New Mexico 88005

10. Field and Pool, or Wildcat
Wildcat

4. Location of Well UNIT LETTER F LOCATED 2180 FEET FROM THE West LINE
AND 2025 FEET FROM THE North LINE OF SEC. 27 TWP. 23S RGE. 2E NMPM

12. County
Dona Ana

21. Elevations (Show whether DF, RT, etc.) 4100 Feet	21A. Kind & Status Plug. Bond	21B. Drilling Contractor TO BE DETERMINED	19. Proposed Depth 100 Feet	19A. Formation Quaternary Alluvium	20. Rotary or C.T. Rotary	22. Approx. Date Work will start February 15, 1983
---	-------------------------------	--	--------------------------------	---------------------------------------	------------------------------	---

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP Surface
4"	1 1/2" OD	1 lb.	100 Feet	1	

PVC will be filled with fresh water and capped.
Temperature measurements will be made during the month following drilling.
Hole will be plugged and abandoned after final use.
Hole location will be restored.

APPROVAL VALID FOR 90 DAYS
PERMIT EXPIRES 4-24-83
UNLESS DRILLING UNDERWAY

OIL CONSERVATION COMMISSION TO BE NOTIFIED
WITHIN 24 HOURS OF BEGINNING OPERATIONS

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 Samuel Jennings Title General Partner Date 20 Jan 83
(This space for State Use)

APPROVED BY Carl Ulvog TITLE DISTRICT SUPERVISOR DATE Jan. 24, 1983
CONDITIONS OF APPROVAL, IF ANY:

GEOTHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

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

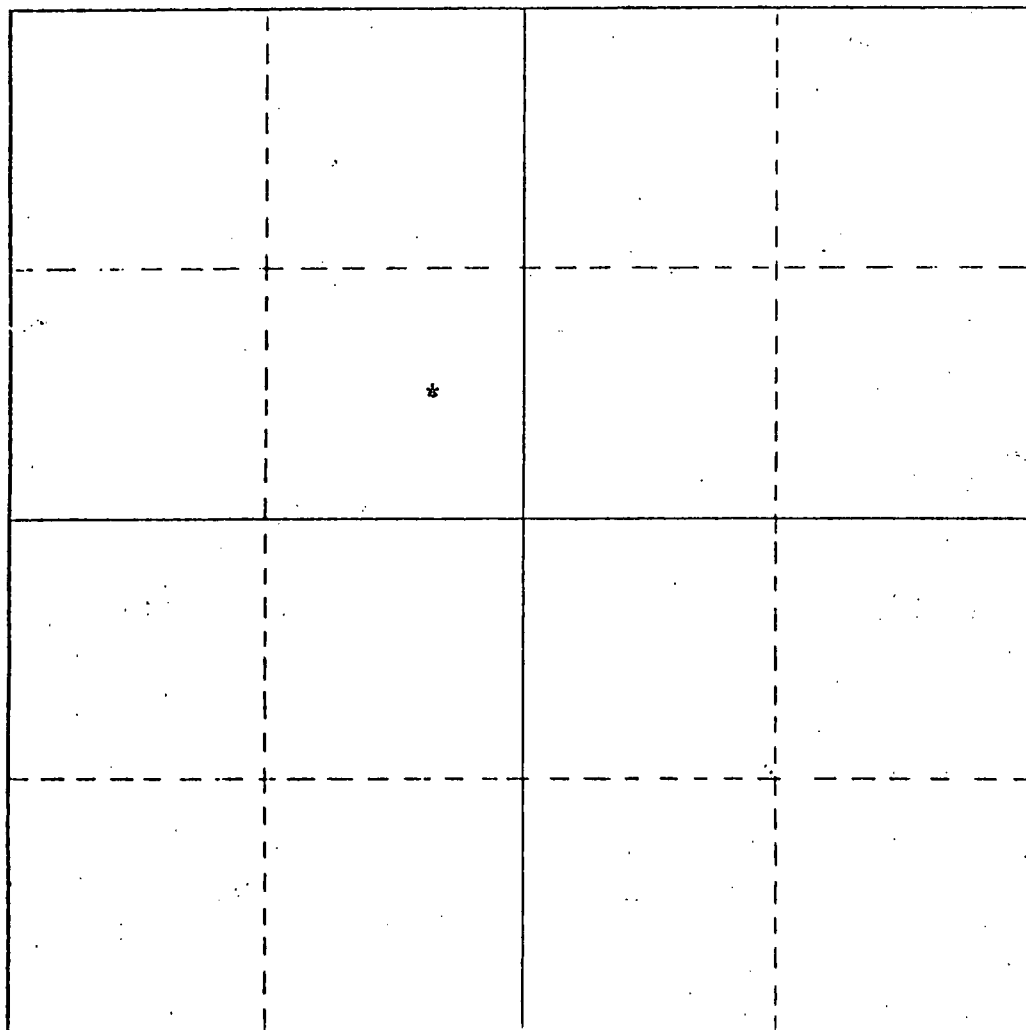
Operator Mr. Samuel Jennings Mountain Shadows Development, Ltd.			Lease MSDL-TG		Well No. 1
Unit Letter F	Section 27	Township 23S	Range 2E	County Dona Ana	
Actual Footage Location of Well: 2180 feet from the West line and 2025 feet from the North line					
Ground Level Elev. 4100	Producing Formation		Pool Wildcat		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.

Samuel Jennings

Name
General Partner

Position
Mt. Shadows Development, Ltd.

Company

Date

28 Jan 83

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.

0 300 600 900 1200 1500 1800 2100 2400 2700 3000 3300 3600 3900 4200 4500 4800 5100 5400 5700 6000



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

January 25, 1983

TONEY ANAYA
GOVERNOR

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

Commercial Union Insurance
P. O. Box 20666
El Paso, Texas 79998

Re: \$2,000 One-Well Geothermal Bond
Samuel Jennings, Mt. Shadows
Development, Ltd., Principal
Commercial Union Insurance Company,
Surety
Bond No. CR-71359-67

Gentlemen:

The Oil Conservation Division hereby approves
the above-referenced one-well geothermal bond effective
January 24, 1983.

Sincerely,

JOE D. RAMEY,
Director

dr/

cc: ✓ Oil Conservation Division
Santa Fe, New Mexico

Samuel K. Jennings

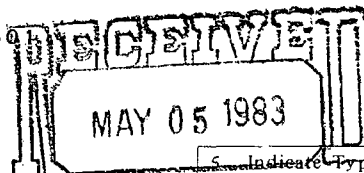
STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form G-103
Adopted 10-1-77
Revised 10-1-78



SUNDRY NOTICES AND REPORTS
ON
GEOTHERMAL RESOURCES WELLS

5. Indicate Type of Lease
State ☒ Fee ☒
State Lease No.
N/A

NO. OF COPIES RECEIVED	
DISTRIBUTION	
File	<input checked="" type="checkbox"/>
N. M. B. M.	
U. S. G. S.	
Operator	
Land Office	

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

1. Type of well Geothermal Producer <input type="checkbox"/> Temp. Observation <input checked="" type="checkbox"/> Low-Temp Thermal <input type="checkbox"/> Injection/Disposal <input type="checkbox"/>	7. Unit Agreement Name N/A
2. Name of Operator Mr. Samuel Jennings, Mountain Shadows Development Ltd.	8. Farm or Lease Name MSDL-TG
3. Address of Operator 510 W. Amador Ave., Las Cruces, NM 88005	9. Well No. 2
4. Location of Well Unit Letter G, 2,525 Feet From The East Line and 1,940 Feet From The North Line, Section 27 Township 23S Range 2E NMPM.	10. Field and Pool, or Wildcat Wildcat
15. Elevation (Show whether DF, RT, GR, etc.) 4,100	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.

Temperature gradient hole was plugged and abandoned in accordance with Oil Conservation Division regulations.
The PVC tubing was cut off 2 feet below the surface.
The top 8 feet of the PVC were filled with cement and the cement was allowed to overflow into the annular space to form a permanent cap.
The hole was backfilled and the surface reclaimed.
Plugging and abandonment took place on 3/24/83.

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

SIGNED Samuel Jennings TITLE General Partner DATE 29 Apr 83

APPROVED BY Carl Ulloa TITLE DISTRICT SUPERVISOR DATE 5/5/83

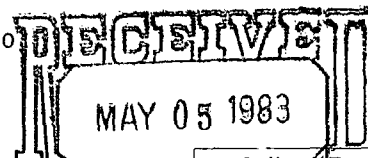
CONDITIONS OF APPROVAL, IF ANY:

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



SUNDRY NOTICES AND REPORTS
ON
GEOTHERMAL RESOURCES WELLS

OIL CONSERVATION DIVISION
SANTA FE
Indicate Type of Lease
State ☒ Private Fee ☒

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N. M. B. M.	
U. S. G. S.	
Operator	
Land Office	

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1. Type of well Geothermal Producer <input type="checkbox"/> Temp. Observation <input checked="" type="checkbox"/> Low-Temp Thermal <input type="checkbox"/> Injection/Disposal <input type="checkbox"/>	7. Unit Agreement Name N/A
2. Name of Operator Mr. Samuel Jennings, Mountain Shadows Development Ltd.	8. Farm or Lease Name MSDL-TG
3. Address of Operator 510 W. Amador Ave., Las Cruces, NM 88005	9. Well No. 2
4. Location of Well Unit Letter <u>G</u> , <u>2,525</u> Feet From The <u>East</u> Line and <u>1,940</u> Feet From The <u>North</u> Line, Section <u>27</u> Township <u>23S</u> Range <u>2E</u> NMPM.	10. Field and Pool, or Wildcat Wildcat
15. Elevation (Show whether DF, RT, GR, etc.) 4,100	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 <input type="checkbox"/>	

SUBSEQUENT REPORT OF:

REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
COMMENCE DRILLING OPNS. <input checked="" 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.

The hole was spudded on 2/2/83. A depth of 300 feet was reached. Drilling stopped on 2/5/83. 1½" PVC casing was placed in the hole. The annular space around the tubing was filled with drilling mud to 10 feet below the surface and with cement from 10 feet to 2 feet below the surface. No water was encountered.

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

SIGNED Samuel Jennings TITLE General Partner DATE 29 Apr 83

APPROVED BY Carl Wloog TITLE DISTRICT SUPERVISOR DATE 5/5/83

CONDITIONS OF APPROVAL, IF ANY:

CEMENTER'S AFFADAVIT

OPERATOR: Mr. Samuel Jennings
Mountain Shadows Development
510 W. Amador Ave.
Las Cruces, NM 88005

HOLE TYPE: Temperature Gradient

HOLE NUMBER: 2

LOCATION: Unit letter G, Section 27, Township 23S, Range 2E

PLUG: 1 bag Portland Cement
Approximately ~~15~~ gallons water

PLUG DATE: 3/24/83

CEMENTING COMPANY: LarJon Drilling Co.
P.O. Box 925
Mesilla Park, NM 88047

SIGNED Sarry Johnson for LarJon Drilling Co.

DATE 4/29/83



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

TONEY ANAYA
GOVERNOR

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

April 19, 1983

Mr. Samuel Jennings
510 W. Amador Ave.
Las Cruces, New Mexico 88005

Dear Mr. Jennings:

Attached are copies of recently submitted Forms G-103. Approval of action reported there-in has been suspended, awaiting your compliance with Memorandum of 2/27/81, copy of which was attached to-and became a condition of OCD approval of-your permit to drill. Another copy of said Memorandum is enclosed for your convenience.

Please note that this memorandum is used as a convenience to the operator. Lacking such a proviso, the operator is subject to Rule 302 of the State Geothermal Regulations. However, the stipulation of above-mentioned memorandum waives only the PRIOR notification by filing Form G-103; it does not exempt an operator from submitting the data required by Rule 302.

Yours truly,

CARL ULVOG
Geothermal Supervisor

CU/jc

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

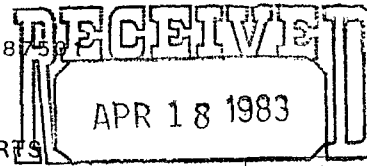
OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

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

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N. M. B. M.	
U. S. G. S.	
Operator	
Land Office	



SUNDRY NOTICES AND REPORTS
ON
GEOTHERMAL RESOURCES WELLS

OIL CONSERVATION DIVISION
SANTA FE

Type of Lease ☐ Fee ☒

5.a State Lease No.
N/A

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
Mr. Samuel Jennings, Mountain Shadows Development Ltd.

8. Farm or Lease Name
MSDL-TG

3. Address of Operator
510 W. Amador Ave. Las Cruces, NM 88005

9. Well No.
2

4. Location of Well
Unit Letter G, 2525 Feet From The East Line and 1940 Feet From
The North Line, Section 27 Township 23S Range 2E NMPM.

10. Field and Pool, or Wildcat
Wildcat

15. Elevation (Show whether DF, RT, GR, etc.)
4100

12. County
Dona Ana

6. 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 ☐

7. 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.

Temperature gradient hole was plugged and abandoned in accordance with Oil Conservation Division regulations.

The PVC tubing was cut off 2 feet below the surface.
The top 8 feet of the PVC were filled with cement and the cement was allowed to overflow into the annular space to form a permanent cap.
The hole was backfilled and the surface reclaimed.

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

SIGNED Samuel Jennings TITLE General Partner DATE 13 Apr 83

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

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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 checked="" type="checkbox"/>	7. Unit Agreement Name
	Low-Temp Thermal <input type="checkbox"/>	Injection/Disposal <input type="checkbox"/>	N/A
2. Name of Operator	Mr. Samuel Jennings, Mountain Shadows Development, Ltd.		8. Farm or Lease Name
			MSDL-TG
3. Address of Operator	510 W. Amador Ave., Las Cruces, New Mexico 88005		9. Well No.
			2
4. Location of Well	Unit Letter <u>G</u> located <u>2525</u> Feet From The <u>East</u> Line and <u>1940</u> Feet From		10. Field and Pool, or Wildcat
	The <u>North</u> Line, Section <u>27</u> Township <u>23S</u> Range <u>2E</u> NMPM.		Wildcat
15. Elevation (Show whether DF, RT, GR, etc.)			12. County
4100 Feet			Dona Ana

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

NOTICE OF INTENTION TO:

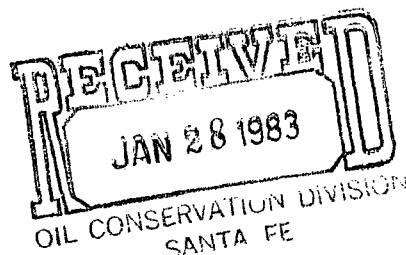
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	
PULL OR ALTER CASING <input type="checkbox"/>	CHANGE PLANS <input checked="" type="checkbox"/>
OTHER <input type="checkbox"/>	

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.

This hole was originally proposed to be drilled to 100 feet. It is now proposed that the hole be drilled to 300 feet. It is believed that this depth will provide more information for a geothermal temperature gradient. Should the water table be encountered before 300 feet drilling operations will cease within 20 feet.



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

SIGNED Samuel K Jennings TITLE General Partner DATE 27 Jan 83

APPROVED BY Carl Ulvog TITLE DISTRICT SUPERVISOR DATE 1/28/83

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

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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
MSDL-TG

2. Name of Operator
Mr. Samuel Jennings, Mountain Shadows Development, Ltd.
3. Address of Operator
510 W. Amador Ave., Las Cruces, New Mexico 88005
4. Location of Well UNIT LETTER G LOCATED 2525 FEET FROM THE East LINE
AND 1940 FEET FROM THE North LINE OF SEC. 27 TWP. 23S RGE. 2E NMPM

9. Well No.
2
10. Field and Pool, or Wildcat
Wildcat

12. County
Dona Ana

19. Proposed Depth 100 Feet	19A. Formation Quaternary Alluvium	20. Rotary or C.T. Rotary
21. Elevations (Show whether DF, RT, etc.) 4100 Feet	21A. Kind & Status Plug. Bond TO BE DETERMINED	22. Approx. Date Work will start February 15, 1983

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
4"	1 1/2" OD	1 lb.	100 Feet	1	Surface

PVC will be filled with fresh water and capped.
Temperature measurements will be made during the month following drilling.
Hole will be plugged and abandoned after final use.
Hole location will be restored.

APPROVAL VALID FOR 90 DAYS
PERMIT EXPIRES 4-24-83
UNLESS DRILLING UNDERWAY

OIL CONSERVATION COMMISSION TO BE NOTIFIED
WITHIN 24 HOURS OF BEGINNING OPERATIONS

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 Samuel Jennings Title General Partner Date 20 Jan 83
(This space for State Use)

APPROVED BY Carl Ulvog TITLE DISTRICT SUPERVISOR DATE Jan. 24, 1983
CONDITIONS OF APPROVAL, IF ANY:

GEOTHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

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

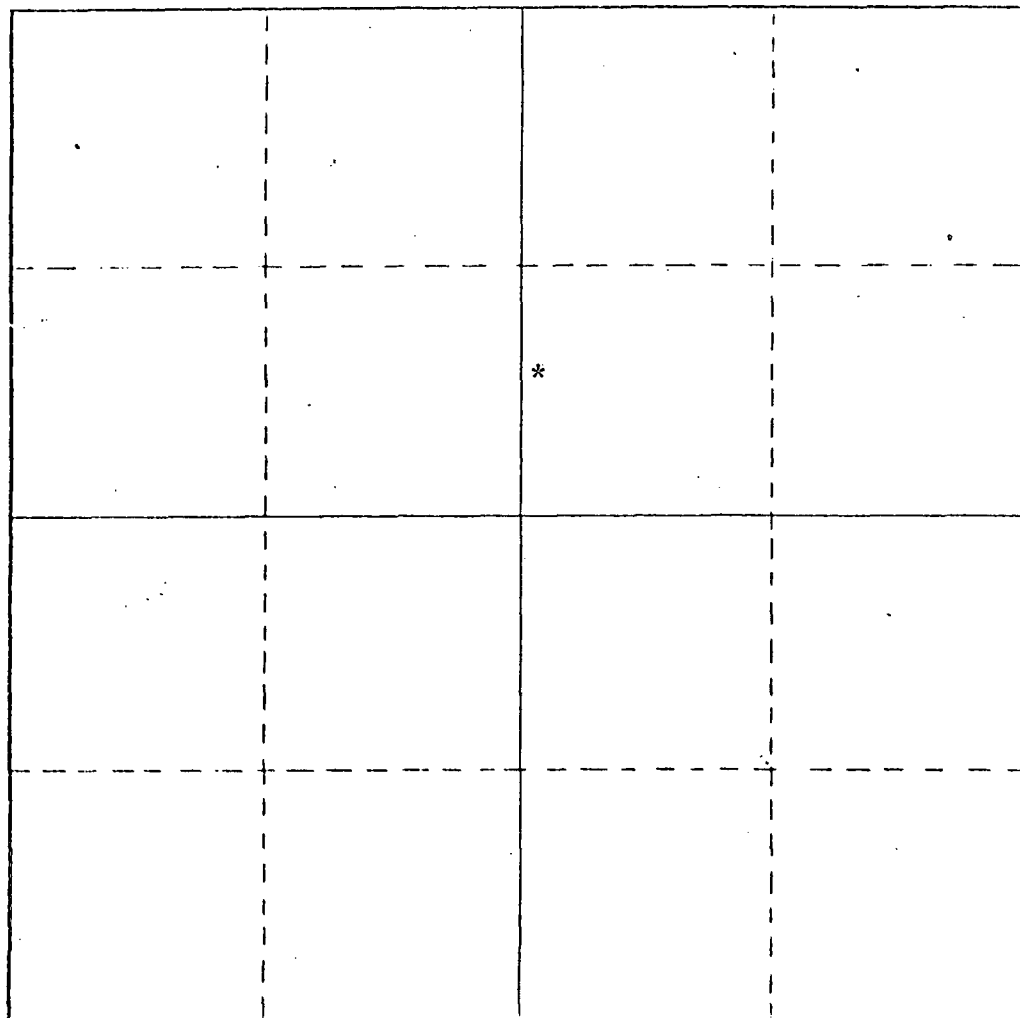
Operator Mr. Samuel Jennings, Mountain Shadows Development, Ltd.			Lease MSDL-TG		Well No. 2
Unit Letter G	Section 27	Township 23S	Range 2E	County Dona Ana	
Actual Footage Location of Well: 2525 feet from the East line and 1940 feet from the North line					
Ground Level Elev. 4100	Producing Formation		Pool Wildcat		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.

Mr. Samuel Jennings

Name
General Partner

Position
Mt. Shadows Development, Ltd.

Company

Date

20 Jan 83

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.

Samuel Jennings
Date Surveyed

Registered Professional Engineer
and/or Land Surveyor

Certificate No.

0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

January 25, 1983

TONY ANAYA
GOVERNOR

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

Commercial Union Insurance
P. O. Box 20666
El Paso, Texas 79998

Re: \$2,000 One-Well Geothermal Bond
Samuel Jennings - Mt. Shadows
Development, Ltd., Principal
Commercial Union Insurance Co.,
Surety
Bond No. CR-71359-66

Gentlemen:

The Oil Conservation Division hereby approves
the above-referenced geothermal bond effective
January 24, 1983.

Sincerely,

JOE D. RAMEY,
Director

dr/

cc: Carl Ulvog - OCD
Santa Fe

Samuel K. Jennings
510 W. Amador Avenue
Las Cruces, New Mexico