

GTHT - 001

G-102s

GEOHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

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

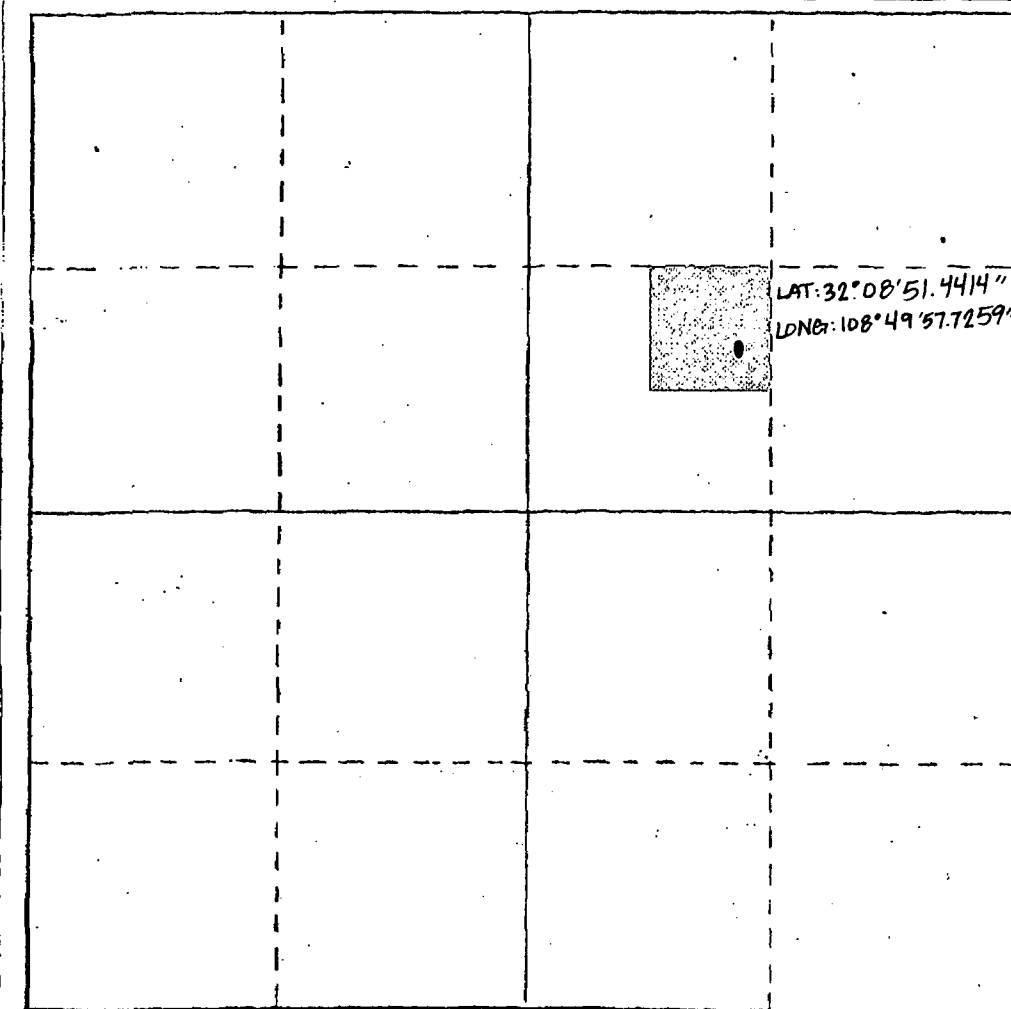
Operator Los Lobos Renewable Power, LLC		Lease NM 34790		Well No. LDG 63-7	
Unit Letter G	Section 7	Township 25S	Range 19W	County Hidalgo	
Actual Footage Location of Well: 1722 feet from the North line and 1420 feet from the East line					
Ground Level Elev. 4209 ft	Producing Formation Unknown	Pool Lightning Dock Field		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
David W. Janney, P.G.
Position
Permitting Agent
Company
AMEC Environment & Infrastructure, Inc.
Date
March 30, 2012

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.

4/3/2012
Date Surveyed
20249
Registered Professional Engineer and/or Land Surveyor
20249

Certificate No.

0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 6500 7000 7500 8000 8500 9000 9500 10000

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1090 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
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Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

* API Number		* Pool Code		* Pool Name Hacienda	
* Property Code		* Property Name Lightning Dock No 1			* Well Number 517
* OGRM No		* Operator Name Los Lobos Renewable Power, LLC			* Elevation 4108

10 Surface Location

UL or lot no.	Section	Township	Range	Lot 1/4	Feet from the	North/South line	Feet from the	East/West line	County
	07	25S	19W		169.2'	North	2406.9'	East	Hidalgo

11 Bottom Hole Location If Different From Surface

UL or lot no. Same	Section	Township	Range	Lot 1/4	Feet from the	North/South line	Feet from the	East/West line	County
* Dedicated Acres 20		* Joint or Infill		* Consolidation Code		* Order No			

No allowable well be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

16		• 51-07	12 OPERATOR CERTIFICATION I hereby certify that the information on this plat is true and correct to the best of my knowledge and belief, and that I am duly qualified to perform the duties of an operator. _____ Helen Brown Operator	
			13 SURVEYOR CERTIFICATION I hereby certify that the well location as shown on this plat was determined from a recent ADS data provided to me and agrees with the actual field survey. _____ November 17, 2008 _____ Richard J. Tugerson Professional Surveyor	
			N.M.E.S. 2-01 _____ Professional Surveyor	

Revised
1425 N. Franklin Dr., Suite 100, Santa Fe, NM 87505
505.825.5111
1401 W. Center Avenue, Santa Fe, NM 87505
505.825.5111
1401 W. Center Avenue, Santa Fe, NM 87505
505.825.5111
1425 N. Franklin Dr., Suite 100, Santa Fe, NM 87505

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

APN Number		Well Name	
Property Code		Property Name	
Well No.		Operator Name	

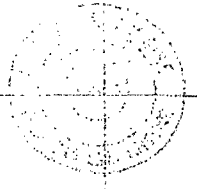
Surface Location

UTM Zone	Section	Township	Range	County	East from the	North/South line	East from the	East from the	County
12	25S	26N	12E	1524.5'	North	1524.5'	West	1524.5'	1524.5'

Bottom Hole Location If Different From Surface

UTM Zone	Section	Township	Range	County	East from the	North/South line	East from the	East from the	County
12	25S	26N	12E	1524.5'	North	1524.5'	West	1524.5'	1524.5'

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

				OPERATOR CERTIFICATION I hereby certify that the well location and acreage information on this plat was prepared from data as filed with me and does not reflect an actual field survey. Date: 3/03/09 Signature: <i>Steve R. Brown</i>	
				SURVEYOR CERTIFICATION I hereby certify that the well location and acreage information on this plat was prepared from data as filed with me and does not reflect an actual field survey. Date: 3/03/09 Signature: <i>Richard J. Tinsie</i>	

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code	³ Pool Name
⁴ Property Code	⁵ Property Name Lightning Dock No 1, HI-01 LLC	⁶ Well Number 42-18
⁷ OGRID No.	⁸ Operator Name Los Lobos Renewable Power, LLC	⁹ Elevation 4106

¹⁰ Surface Location

U.L. or lot no.	Section 18	Township 25S	Range 19W	Lot Idn	Feet from the 1307'	North/South line North	Feet from the 2123'	East/West line West	County Hidalgo
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¹¹ Bottom Hole Location If Different From Surface

U.L. or lot no. Same	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Dedicated Acres 20	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

¹⁶					¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or undivided mineral interest in the land including the proposed bottom hole location or has a right to drill this well in this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <i>[Signature]</i> Date: 4/2/08 Printed Name: Steven Brown
					¹⁸ SURVEYOR CERTIFICATION 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 belief. March 12, 2008 Date of Survey: Signature and Seal of Professional Surveyor: <i>[Signature]</i> 4/16/08 NMRLS 7240 Certificate Number

District I

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1301 W. Grand Avenue, Artesia, NM 88210

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1000 Rio Brazos Rd., Aztec, NM 87410

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code	³ Pool Name
⁴ Property Code	⁵ Property Name Lightning Dock No 1, HI-01 LLC		⁶ Well Number 13-07
⁷ OGRID No.	⁸ Operator Name Los Lobos Renewable Power, LLC		⁹ Elevation 4100

¹⁰ Surface Location

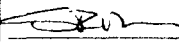
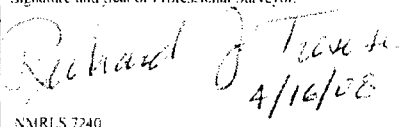
U.I. or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	07	25S	19W		3781'	South	530'	West	Hidalgo


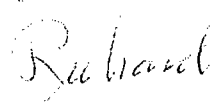
¹¹ Bottom Hole Location If Different From Surface

U.I. or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Same									

¹² Dedicated Acres 20	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

¹⁶ • 13-07	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or undivided mineral interest in the land including the proposed bottom hole location or has a right to drill this well in this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.			
	Signature:  Date: 4/21/08 Printed Name: Steven Brown			
	¹⁸ SURVEYOR CERTIFICATION 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 belief. March 12, 2008 Date of Survey: Signature and Seal of Professional Surveyor:  NMRLS 7240 Certificate Number:			

<p>16</p>	<p>33-07 •</p>		<p>17 OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or undivided mineral interest in the land including the proposed bottom hole location or has a right to drill this well in this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i></p> <p> 4/21/08</p> <p>Signature Date</p> <p><u>Shawn Brown</u></p> <p>Printed Name</p>
			<p>18 SURVEYOR CERTIFICATION <i>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 belief.</i></p> <p>March 12, 2008</p> <p>Date of Survey</p> <p>Signature and Seal of Professional Surveyor</p> <p> 4/16/08</p> <p>NMRLS 7240</p> <p>Certificate Number</p>

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code	³ Pool Name
⁴ Property Code	⁵ Property Name Lightning Dock No 1, HI-01 LLC		⁶ Well Number 45-07
⁷ OGRID No.	⁸ Operator Name Los Lohos Renewable Power, LLC		⁹ Elevation 4100

¹⁰ Surface Location

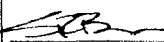
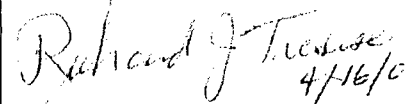
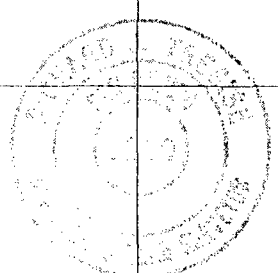
U/L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	07	25S	19W		2360'	South	2278'	West	Hidalgo

¹¹ Bottom Hole Location If Different From Surface

U/L or lot no. Same	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

¹² Dedicated Acres 20	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

¹⁶ <div style="text-align: center;">45-07 •</div>	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest in, or leased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.  Signature Date 4/21/08 Steven Brown Printed Name		
	¹⁸ SURVEYOR CERTIFICATION 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 belief. March 31, 2008 Date of Survey Signature and Seal of Professional Surveyor.  NMRLS 7240 Certificate Number		
			

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☐ AMENDED REPORT**WELL LOCATION AND ACREAGE DEDICATION PLAT**

¹ API Number 30-023-20016		² Pool Code	³ Pool Name
⁴ Property Code	⁵ Property Name Lightning Dock No 1, HI-01 LLC		⁶ Well Number 477
⁷ OGRID No. 262071	⁸ Operator Name Los Lobos Renewable Power, LLC		⁹ Elevation 3100

¹⁰ Surface Location

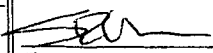
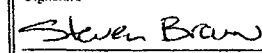
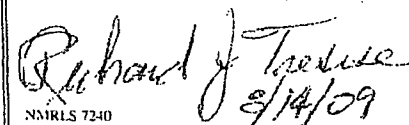
UL or lot no.	Section 07	Township 25S	Range 19W	Lot Idn	Feet from the 1155'	North/South line South	Feet from the 2266'	East/West line West	County Hidalgo
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. Same	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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¹² Dedicated Acres 20	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

16				¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or undivided mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore enacted by the division.  Signature: e/12/09 Date:  Printed Name:
				¹⁸ SURVEYOR CERTIFICATION 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 belief. March 31, 2008 Date of Survey Signature and Seal of Professional Surveyor:  NMRLS 7240 Certificate Number

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1000 Rio Brazos Rd., Aztec, NM 87410

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State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102

Revised October 12, 2005

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code	³ Pool Name	
⁴ Property Code	⁵ Property Name Lightning Dock No 1, H1-01 LLC			⁶ Well Number 53-07
⁷ OGRID No.	⁸ Operator Name Los Lobos Renewable Power, LLC			⁹ Elevation 4106

¹⁰ Surface Location


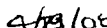

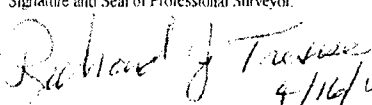
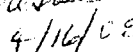
UL or lot no.	Section 07	Township 25S	Range 19W	Lot Idn	Feet from the 3775'	North/South line South	Feet from the 3052'	East/West line West	County Hidalgo
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¹¹ Bottom Hole Location If Different From Surface

U.L. or lot no. Same	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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¹² Dedicated Acres 20	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

16				<p>17 OPERATOR CERTIFICATION</p> <p><i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or undivided mineral interest in the land including the proposed bottom hole location or has a right to drill this well on this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i></p> <p>   </p> <p> Signature _____ Date _____ </p> <p>  </p> <p>Printed Name _____</p>
		53-07 •		<p>18 SURVEYOR CERTIFICATION</p> <p><i>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 belief.</i></p> <p>March 12, 2008</p> <p>Date of Survey _____</p> <p>Signature and Seal of Professional Surveyor.</p> <p>   </p> <p>NMRLS 7240</p> <p>Certificate Number _____</p>

OIL CONSERVATION DIVISION
P. O. BOX 3089
SANTA FE, NEW MEXICO 87501

Form G-102
Adopted 10-1-74
Revised 10-1-78

GEOTHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

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

Operator Lightning Dock Geothermal HI-01, LLC		Lease Federal NM-34790		Well No. TFD 55-7	
Unit Letter N/A	Section 7	Township 25S	Range 19W	County Hildalgo	
Actual Footage Location of Well: 2454 feet from the East line and 2345 feet from the South line					
Ground Level Elev. 4201'	Producing Formation open hole		Pool wildcat	Dedicated Acreage: N/A 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.

Minerals -- All section 7 - Federal Lease NM-34790
Surface -- SE 1/4 - Archie L. Green

x --- 2454'

2345'

0 500 1000 1500 2000

CERTIFICATION

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

Benjamin J. Barker

Name

Benjamin J. Barker

Position

V.P. Resource Dev.

Company

Raser Technologies

Date

April 12, 2010

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.
see attached certified
survey plat

Date Surveyed

April 9, 2010

Registered Professional Engineer
and/or Land Surveyor

John F. Esquibel

Certificate No.

5949