GTHT -___001___

LDG 15-8

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION PO BOX 2088 SANTA FE, NEW MEXICO 87801

form 3-191 Respond 10-1-16 Restord 10-1-11

NO OF COM! J'AE	CEIVED								
DISTE BUTTO	N			3. Indicate Type of Leave					
File	المالية المالية	APPL	ICATION FOR PERM	STATE -	STATE TECT				
NUBV			IG BACK-GEOTHE	S a State Lea	P 70				
USGS									
Cocrator	13								
Land Office									
12. Type of Work	Drill 🔯		Оеереп 🔲	Plug Back	ū	7 Unit Agree None	ment Yame		
b. Type of Well	Geothermal Pr	oducer 🔲	T	emp Observation		€ # Fum of La	até Name		
	Low-Temp The	ermuli 🖸	In	jectian/Dispasal	CR	Fed. NM-34790			
Lightning Do	ck Geothermal H	II-01, LLC				9 Well No.	LDG 15-8		
La Address of Operation Kearns Bldg.		et, Ste. 600, Sa	alt Lake City, UT 84	1104		1	rnol, or Wildeat ig Dock KGRA		
ano 2141	_		SEC. 8 TWP. 25	South age 19	West NHOW	12 County			
						Hidalgo			
HIIIIII				19 Proposed Urpth	19A. Form	llion	O. Rutary or C.T.		
				1,500 feet	Quaternary allus	ium Tertiary volcanie	Mud Rotary		
21. kievsuons <i>(Sho</i> = 4230		tel 21A Kind	& Status Plug Burld	21th Disting Contra TBD	ctor	7/1/2015	Date Work will start		
*			ROPOSED CASING AN	O CEMENT PROGR	АМ				
SIZE OF HO	LE 5125	OF CASING	WEIGHT PER FOOT	SETTING DEP	TH SACKS	OF CEMENT	EST TOP		
12,2	5"	9.625"	36#	90'		6	GR		
8.5"		7"	23#	150*		20	GR		
6.12	5"	5**	11.5#	1.5002	1	None 1	1400"		

Drill a geothermal injection well on Federal lease NM-34790.

Please see attached location plat Form G-102.

Please see attached drilling handbook prepared by Capuano Engineering Company.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If a cone, Give blewdut prevenier program, if any,	reported to deepen or plug back, give data on present pr	aductive time and expected new productive
I hereby certify that the information above is true and comple	its to the best of my knowledge and belief.	
may Devil W. January, P6	Agent for Lightning Dock Geothermal HI-01, LLC	6/1/2015
	(III)	_ D. N
This up for State Clar		
APROVED BY	TITLE	
LONGITIONS OF APPROVAL, IF ANY		DATE

GEOTHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

		All distant	ces must be from	the outer boundaries	of the Section.		
Operator Lightning Doc	k Geothermal HI-		Lea	14	Geothermal NA	м-34790	LDG 15-8
Unit Letter	Section	Township		Itange	County		
L	8		25 South	19 West	<u> </u>	idalgo	
Actual Footage Loca 345	tion of Well:	West	line and	2141	feet from the S		line
Ground Level Dev.	Producing For	mation	Pon		-0.00000	Ded	icated Acreage:
							Ruci
3. If more commun	than one lease is alty). than one lease of itization, unitization. No If an "no," list the own	ed to the suited to different or on, force-poonswer is "yes ners and trained to the	bject well by continuous the well, outlined whersip is dedicated and the constant descriptions well until all	NA blored pencil or had iden ated to the well, colidation which have actual	have the inter	n the plat belowed the state of all own the state o	noth as to working interest mers been consolidated by reverse side of this form if amunitization, unitization, by the Division. ERTIFICATION CERTIFICATION CONTRIBUTE C
32°08'37.40:	1					Figure 1 Page 1	Solutions, LLC Solutions, LLC
f 310 860	19 1970 1850 1	an 2319 26	A) 2000	1202 1990	100 0		

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 10-1-78

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO PRODUCE GEOTHERMAL RESOURCES

OWNER OR OPERATOR Name Lightning Dock Geothermal HI-01. L	1.0			
Address 136 S. Main Street, Ste. 600, Sali				
Address				
TYPE OF WELL Geothermal Producer	Low-Temperature The	rmal	Injection/I	Disposal 🗸
REASON FOR FILING New Well Recompletion Change in Ownership Other (Please Explain)				ξ1
DESCRIPTION OF WELL Lease Name Not Applicable	Well No. LDG-15-8	Name of	Lightning Dock	8
Kind of Lease (Fee, Fed. or State) Federal	Lease Number NM-3	•		
LOCATION Unit	feet from the _		South	line and
Section 8 Township County Hildago	050	_Range	19W	
TYPE OF PRODUCT		(40)	w Temp.	4
	am and ter Water		-	
	DUCT w Mexico erque, NM 87102		ermal Water	
DESIGNATION OF PURCHASER OF PRO Name of Purchaser Public Service Company of New Address of Purchaser 414 Silver Ave. Suite 4 Albuque	DUCT M Mexico erque, NM 87102 power ons concerning geothern vision of New Mexico,	nal resources we	ells in the State of Ne	w Mexico, as
DESIGNATION OF PURCHASER OF PRO Name of Purchaser Public Service Company of New Address of Purchaser 414 Silver Ave. Suite 4 Albuque Product Will Be Used For Residential and commercial CERTIFICATE OF COMPLIANCE I hereby certify that all rules and regulation promulgated by the Oil Conservation Di	DUCT M Mexico erque, NM 87102 power ons concerning geothern vision of New Mexico,	nal resources we have been conlete to the best	ells in the State of Ne	w Mexico, as pect to the belief.

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

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

Form G-112 Adopted 10-1-74 Revised 10-1-78

APPLICATION TO PLACE WELL ON INJECTION-GEOTHERMAL RESOURCES AREA

Operator Lightning Dock G	eother	mal HI-0	l. LLC	s ²²		Address 136 S		Street Suite 600	n Salt La	ke City U	T 84101	
Loase Name Federal NM-34790			Well No. 15-8			136 S. Main Street, Suite 600 S. Field Lightning Dock			o our bu	County Hidalgo		
Location Unit Letter L		Well Is Lo	caled	2141 _F	eet Fran	n The S	outh	Line And 345	Fcet	From The 1	Vest_	
Line, Section	8	_ Township	25S	R	langa	19W		_ NMPM.				
			· · · · · ·	CASING	AND T	JBING D	ATA					
NAME OF STRING		SIZE	SETTING	DEPTH	SA	CKS CEN	MENT	TOP OF CEME	NT	TOP DETE	RMINED BY	
Conductor Pipe		9.625"	90'	,	(б су		GR		flow to	surface	
Surface Casing		7"	150'		2	0	•	GR		flow to	surface	
Long String		5" liner	_1.500		66 N	lone		None		NA		
Tubing			1-7/		Name	Model a	nd Dept	h of Tubing Packer				
	1.				NA							
Name of Proposed Injection F						Top of F	ormatio	n	Bottom	of Formation		
Quaternary alluvium/7							1-		1,500'			
ts Injection Through Tubing, (Casing, o	r Annulus?		erforations slotted l		n Hole?		ed Interval(s) of Inje -1,500	ction			
Is This a New Well Drilled For Injection? Ves		If Answer	is No, For	What Purp	pose was	Well Or	ginally [Orilled? Has Well Ev Other Than	er Been Pe the Propo	rforated in A	ny Zone Zone? NA	
List Ali Such Perforated Inter-	vals and	Sacks of Ce	ment used	to Seal O	II or Sq	10020 EAG	:h				1177	
Not Applicable				33		18		*				
Depth of Bottom of Deepest F in This Area Unkown	resh Wa	iter Zone	is This II	njection fo Oisposal?	See Ri	se of Pre	ssure Ma and 502	No, for injection	n of spent	geothermal	water	
Anticipated Daily Minis	nticipated Daily Minimum Maximu				System			Is injection to be by Gravity of Pressure? Gravity		Approx. Pressure (psl) <100		
	e Mineralized Water to be Inject			njected	Nate	Natural Water in Injection Zone No		Are Water Analyses Attached? Summary on file with OCD				
Name and Address of Surface C) wner (c	or Lessee, if	State or Fe					110	1 3010	itially on the	WILL OCD	
Rosette, Inc. P.O. Box 1618												
List Names and Addresses of all) Mile of	This inje	iction We	31					
Thère are no other geothe	rmal_lea	ase owners	or operate	ors withi	n one-h	alf mile	of the p	roposed well.				
				_								
								450			• • • • • • • • • • • • • • • • • • • •	
0					_	-					·	
Have Copies of this Application Sent to Each Operator Within C Half Mile of this Well?		Yes [t appli	cable					7.	
Are the Following Items Attach this Application (see Rule 503)	ed to	Plat of Are	<u>, </u>	400		Electrical		No 🖾			See drillin	
1 5	last Armel	Yes I	No No			Yes			Yes		LX hanbook	
0 .0.1								best of my knowler			20	
Segnosurey	yste	-	Age	ntior Lig	zutning.	(Title)	eoinern	nal HI-01, LLC	<u>June 1, 2</u>	U14 [Date]		

NOTE: Should walvers from all operators within one-half nulle 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 walting 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.