GTHT -___1

LDG 63A-7

June 29, 2015

Mr. Jim Griswold Environmental Bureau Chief NMOCD 1220 South St. Francis Drive Santa Fe, NM 87505 505.476.3465 Jim.Griswold@state.nm.us RECEIVED OCD

2015 JUL -1 A 8: 19

RE: Forms G-101, G-102, G-104, and G-112 for proposed injection well LDG 63A-7 at Lightning Dock Geothermal HI-01, LLC, Hidalgo County, New Mexico

Dear Mr. Griswold:

On behalf of Lightning Dock Geothermal HI-01, LLC, Geo-Science Solutions, LLC hereby submits the attached G-101, G-102, G-104, and G-112 forms to drill new injection well LDG 63A-7 as an integral part of the development of the Lightning Dock Geothermal project. Attached to the forms are a Drilling Handbook prepared by Capuano Engineering Company which includes a well schematic, a table of all wells within a one-mile radius, and a well location figure.

Mr. Randy Dade in your Artesia office will receive the third copy of these documents. Thank you very much for your assistance in the development of this important energy project. Should you have questions regarding this application package, please do not hesitate to contact me by email at dwjanney160@gmail.com or by phone at 505.508.9187. We ask that you treat the items marked "CONFIDENTIAL" as such as long as possible.

Respectfully submitted,

David W. Janney, PG

Agent for Lightning Dock Geothermal HI-01, LLC

Cc: Randy Dade - NMOCD Artesia

Kacie Peterson - Lightning Dock Geothermal HI-01, LLC Michelle Henrie - Lightning Dock Geothermal HI-01, LLC

Attachments

Two (2) Forms G-101, G-102, G-104, and G-112 with appropriate attachments including a Drilling Handbook, a well schematic, list of wells within one mile, and a location figure

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT		-	OIL CONSERV R. O. II SANTA FE, HE		form 6-181 Adveted 10-1-10 Revised 10-1-28			
NO. OF COPE & REC	EIVEO							
OISTI BUTION						5. Impicate 1	yes of Lease	
Fisq		AP	PLICATION FOR PE	RMIT TO DRILL DE	EPEN	STATE [PEE L	
04,04,0.M.				ERMAL RESOURCE		Sa State Lan	e rep.	
US.C.S.								
Operator						MIIIII		
Land Office						Allilli		
ta. Type of Work	Oras 🖾		Deepen 🗆	Plug Back	0	7. Unit Agree None	ment Name	
b. Type of Well	Geothermal Low-Temp			Temp Observation Injection/Disposal	0	8. Fed. N	M-34790	
2. Name of Operator				q	-	9, Well No.		
Lightning Doo	ck Geotherma	l HI-01, LLC					LDG 63A-7	
136 S. Main S		, Salt Lake Cit	y, UT 84104		I	ightning Dock I	CGRA	
4. Location of Well			ATEO 1403 PEE	25 South ace. 19	ast Led			
						12 Comp Hidalgo		
				1,500 feet	Quaternary al	luvium/Tertiary volcanic	Mud Rotary	
21. Urretions (Show 4208		F, 600.) 28A. N	and & Status Ping. Duni	248. Drilling Control TBD	tior .	9/1/2015	Date Work will start	
•			PROPOSED CASING	AND CEMENT PROGR	АМ		•	
SIZE OF HO	us s	ZE OF CASING	WEIGHT PER POO	OT SETTING DEP	TH SACK	S OF CEMENT	EST, TOP	
12.2:	5"	9.625"	- 36#	90'		6	GR	
8.5"		7"	23#	150'		20	GR	
6.12	6.125"		11.5#			None	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.

soly certify that the information above is true as	ed complete to the best of my knowledge and belief.	
Derrellistanney, PE	Agent for Lightning Dock Geothermal HI-0	1, LLC 6/29/2015
(This space for Easts Cas)		
PROVED BY	mg	
DINDITIONS OF APPROVAL, IF ANY		

GEOTHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

Operator			Mit districts into 1	the steep of the last of the l	daries of the Section.	Well No.
Lightning Doo	ck Genther	mal III.	-01 I'I C	Lease	ed. Geothermal NM-34	No. of Asian
Unit Letter	Section	inai III	Township	Range	County	1170
G		7	25 South	19 We	st Hidalg	go
Actual Fuotage Loca	tion of Well	l:	1			
1403	feet fea	in the	East	ine and 1934	feet from the North	
Ground Level Diev.		ucing For	emation	Pool		Dedicated Acreage:
4208		NA		NA		Acres
2. If more and roys 3. If more commun. Yes If answer is necessary.) No allowal	than one alty). than one nitization, and the literature of the li	lease of unitization of the over assign	f different ownersip is ion, force-pooling, etc.	dedicated to the was consolidation prions which have a	ctually been consolidate	thereof (both as to working interest of all owners been consolidated by ed. (Use reverse side of this form if (by communitization, unitization, approved by the Division.
				3208	'49.34604'' 9'57.52970'' Postit Ager Comm Get	or to Lightning Dock Geothermal HI-01, LLC

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

Form G-104 Adopted 10-1-74 Revised 10-1-78

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO PRODUCE GEOTHERMAL RESOURCES

Name Lightning Dock Geotherma	al HI-01 I L C				
Address 136 S. Main Street, Ste.		ity, UT 84101			
Addiess					
TYPE OF WELL					
Geothermal Producer	Low-T	emperature The	ermal	Injectio	on/Disposal 🗸
REASON FOR FILING					
New Well Recompletion					
Change in Ownership Other (Please Explain)	signation of Purcha	aser			•
Office (Ficase Explain)					
DESCRIPTION OF WELL					
Lease Not Applicable	Well No LD0	G-63A-7	Name Reserv	of Lightning Dock	
NameKind of Lease	140.	Lease	Keseri	7011	
			34790		
, , _					
LOCATION				•	
Unit G . 1934		feet from the _		North	line and
Letter ; 1403				East	
		feet from the _			line of
Section Tow	vnship	230	_Range	19W	
County Hildago					
TI/DC OF DOOD!!OT				•	
TYPE OF PRODUCT Dry	Steam and			Low Temp.	
Steam	1	Vater		Thermal Water	
DESIGNATION OF PURCHASER	OF PRODUCT				
Name of Purchaser Public Service Compa	any of New Mexico	0			
Address of					
Purchaser 414 Silver Ave. Suite	4 Albuquerque, N	NM 87102			
D 1 . 1000				•	
Be Used For Residential and con	nmercial power				
CERTIFICATE OF COMPLIANCE		·•			•
I hereby certify that all rules an		erning geothern	nal resources	wells in the State of	New Mexico as
promulgated by the Oil Conserv					
subject well, and that the informa					
1					
Signed David What	mey PC		Age Position Geo	ent for Lightning Dock othermal HI-01, LLC	Date June 29, 2015
Signed	7/		- Control 2		
Approved			_Position		Date

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 Geoth	permal HI-0	1 11 C		Address	Main Stre	et, Suite 600 S	alt Lak	re City. U	T 84101
Lease Name	iciliai III-o.	Well	No.	Field	Iviani Stic	et, outle ood e	ont Dar		
Federal NM-34790		LI	OG 63A-7		htning Do	ck		Hie	dalgo
Location Unit Letter G	. Wett is t no	ated 19	34 Feet From	m The N	orth Lin	and 1403	Foet	From The E	East
Line, Section 7					NN				
			ISING AND T			TOP OF CEMEN	-	TOP DETE	RMINED BY
NAME OF STRING Conductor Pipe	SIZE	SETTING D	EPIH SA	CKS CEM	ENT	TOP OF CEMEN	-		
	9.625"	90'		6 су		GR		flow to	surface
Surface Casing	7"	150'		20		GR		flow to	surface
Long String						None			
	5" liner	1,500'		Vone	od Donth of			NA	
Tubing					ne Dehtu ol	Tubing Packer			
Name of Proposed Injection Forma	ation		NA	Top of F	ormation		Bottom	of Formation	n
Quaternary alluvium/Tert		rocks					1,500	,	
Is Injection Through Tubing, Casin			rations or Ope	150' on Hote?	Proposed In	terval(s) of injecti			
5" liner		slo	tted liner		150'-1,50	00'			
Is This a New Well Drilled For tnjection?	If Answer i	is No, For Wh	at Purpose wa	s Well Ori	ginally Drilled	? Has Well Ever Other Than th	Been Per e Propos	forated in A	Zone?
Yes List All Such Perforated Intervals a	and Sacks of Ce	ment used to	Seal Off or Sq	ueeze Eac	h				IVA
Not Applicable						,			
Depth of Bottom of Deepest Fresh in This Area Unkown	Water Zone	Is This Injector Water Di	ction for Purpossel? (See R	ose of Presules 501		o, for injection o	of spent	geothermal	water
Anticipated Daily Minimum	Maxi	mum 0	pen or Closed	Туре	Is Injection	on to be by Gravit	ty or	Approx, Pre	essure (psi)
Injection 4400'+ 720,000	0 1.00	00,000	Open Open		Pressure?	Gravity		<100	
Answer Yes or No Whether the Followship to such a Degree as to be Unfit for or Other Common No.	lowing Waters ar	re Mineralized	Water to be	Injected	Natural V	Vater in Injection		ter Anatyses nary on file	Attached? with OCD
Name and Address of Surface Owne									
Rosette, Inc. P.O. Box 1618 Ros	swell, NM 8820	02-1618							
List Names and Addresses of all Op-	erators Within O	ne-Half (1/2) N	dile of This In	jection We	14				
Americulture 25 Tilapia Trail	Animas, NM 88	8020							
Rosette Inc. PO Box 1618 Ross	well, NM 88202	2-1618							
							-		
Have Copies of this Application Bee Sent to Each Operator Within One-	n	_							
Half Mile of this Well?	Yes		not appl				Tol		4 1000
Are the Following Items Attached this Application (see Rule 503)	!	a	Sac C 103	Electrical		673			h of Well See drillin
	Yes	No L	See G-102	Yes	L No	X)	Yes	No.	hanbook
1 hereby	certify that the	information b	bove is true ar	nd complet	te to the best	of my knowledge	e and be	lief.	
Danielle Jann	4,86	Agent	for Lightning	Dock G	eothermal H	U-01,LLC J	une 29.	2015	1
(Carrier)				(, , , , ,				(Linete)	

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.