UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF OCEAN ENERGY MANAGEMENT

Pacific OCS	Region
(Insert Appropris	ite Regional Office)

APPLICATION FOR PERMIT TO CONDUCT GEOLOGICAL OR GEOPHYSICAL EXPLORATION FOR MINERAL RESOURCES OR SCIENTIFIC RESEARCH ON THE OUTER CONTINENTAL SHELF

(Section 11, Outer Continental Shelf Lands Act of August 7, 1953, as amended on September 18, 1978, by Public Law 95-372, 92 Statute 629, 43 U.S.C. 1340; and 30 CFR Parts 551 and 251)

	Beta Operating Company, LLC
	Name of Applicant
	111 W. Ocean Blvd. Suite 1240
_	Number and Street
	Long Beach, CA 90802
_	City, State, and Zip Code
Application is	made for the following activity: (check one)
	Geological exploration for mineral resources
4	Geological scientific research
e d	Geophysical exploration for mineral resources
	Geophysical scientific research
Submit: Origi information cop	nal plus three copies, totaling four copies, which include one digital copy, and one public by.
	To be completed by BOEM
Permit Numbe	er: Date:

A. General Information

1.	The activity will be conducted by:	
	EPI Group	Beta Operating Company, LLC
	Service Company Name	Purchaser(s) of the Data
	25 High Street, Cobham	111 W. Ocean Blvd. Ste. 1240
	Address	Address
	Surrey KT11 EDH, United Kingdom	Long Beach, CA 90802
	City, State, Zip	City, State, Zip
	+44 8702 40 66 99	1-562-628-1539
	Telephone/FAX Numbers	Telephone/FAX Numbers
	Richard.Thompson@epl.co.uk	Bruce.Berwager@amplifyenergy.com
	E-Mail Address	E-Mail Address
2.	The purpose of the activity is:	Mineral exploration
		Scientific research
	on marine life. Describe what steps are pl measures). For example: 1) Potential Eff Protected Species Observers (PSO's), ma	
	Project Description and Supporting	g Environmental Analysis
- 4.	The expected commencement date is:	
		eks to complete - October 2018
5.	The name of the individual(s) in charge of Richard Thompson, Director of M	-
	May be contacted at: Information provided below	
	Telephone (Local) +44 8702 40 66 9	9 (Marine)
	Email Address: Richard.Thompson@	Depi.co.uk

	6.	The vessel(s) to be used in	the operation is (are):		
		M/V Clean Ocean	Registry Number(s) 9202352	Radio Call Sign(s) WDE7605	Registered Owner(s) Metson
		M/V Silver Arrow	9495533	WDE8275	Hornbeck
		M/V Jab	338219566	Not Required	Theory
	7.	The port from which the v	essel(s) will operate is:	Port of Long Beac	:h
	8.	Briefly describe the navig			
		UnidenOceanus Rad	ios (2), SEA225 Sin	gleSide Band Radi	0
В.	Ge	omplete for Geologic eological Scientific R	esearch		s or
	1.	The type of operation(s)	to be employed is: (che	ck one)	
		a Deep str	ratigraphic test, or		
		bShallow	stratigraphic test with	proposed total depth of	, or
		c. X Other	Reflective 3D Seis	mic Survey	
	2.	Attach a page-size plat si appropriate, a polygon er coastline; point of referer Activity; 4) Label as "Pu	iclosing the test sites mance; 3) Distance and di	ly be used, 2) BOEM p	protraction areas;
		Please see Attached			
C.		omplete for Geophys eophysical Scientific		or Mineral Resourc	ces or
	1.	The proposed operation:	Geophysical Surve	ey	. <u></u>
		a. Acquisition method (b. Type of acquisition:CSEM, etc.)	OBN, OBC, Streamer):	OBN	smic, gravity, magnetic,
		3D Seismic			
	2.	Attach a page-size plat s a. The generalized prop b. BOEM protraction a c. Distance and directic d. Label as "Public Info	osed location of the act reas; coastline; point of on from a point of refere	reference,	

	3. List all energy source types to be used in the operation(s): (Air gun, air gun array(s), sub-bottom profiler, sparker, towed dipole, side scan sonar, etc.). Air gun array
	4. Explosive charges will will not _Xbe used. If applicable, indicate the type of Explosive and maximum charge size (in pounds) to be used:
	Type Pounds Equivalent Pounds of TNT
D.	Proprietary Information Attachments
	Use the appropriate form on page 9 for a "geological" permit application or the form on page 11 for a "geophysical" permit application. You must submit a separate Form BOEM-0327 to apply for each geological or geophysical permit.
E.	Certification
	I hereby certify that foregoing and attached information are true and correct.
	Print Name: Bruce Berwager
	SIGNED FALLE December 7, 2017
	TITLE Vice President of Operations-California
	COMPANY NAME: Beta Operating Company, LLC
	TO BE COMPLETED BY BOEM
Pe	ermit No Assigned by Date of BOEM
	his application is hereby:
	a Accepted
	b Returned for reasons in the attached
S	IGNED TITLE Regional Supervisor DATE

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NONEXCLUSIVE USE AGREEMENT FOR SCIENTIFIC RESEARCH ON THE OUTER CONTINENTAL SHELF

A.	State the time and manner in which data and information resulting from the proposed activity will be made available to the public for inspection and reproduction, such time being the earliest practicable time.	
	The survey is being proposed for Fall 2018. The survey information is	
	proprietary information, however Beta has been in discussion(s) with several	
	Universities and may share information for the purposes of research	
	and development.	
В.	resulting from the proposed activity will not be sold or withheld for exclusive use. (Signature of Applicant) Bruce Berwager (Type or Print Name of Applicant) Vice President of Operations - California (Title) December 7, 2017	
	(Date)	

Submit: Two originals, one digital copy, and one public copy (all with original signatures).