UNITED STATES GOVERNMENT November 19, 2026
MEMORANDUM

To: Public Information (MS 5030)
From: Plan Coordinator, FO, Plans Section (MS 5231)

Subject: Public Information copy of plan

Control #	-	S-08243
Type	-	Supplemental Development Operations Coordinations Document
Lease(s)	-	OCS-G21685 Block - 308 South Timbalier Area OCS-G34536 Block - 40 Green Canyon Area OCS-G34879 Block - 1010 Ewing Bank Area
Operator	-	Talos QN Exploration LLC
Description	-	Subsea Well #2 and Platform A-Tarantula
Rig Type	-	Not Found

Attached is a copy of the subject plan.

It has been deemed submitted as of this date and is under review for approval.

Chiquita Hill
Plan Coordinator

Site Type/Name	Botm Lse/Area/Blk	Surface Location	Surf Lse/Area/Blk
????/A-TARANT		6452 FNL, 7075 FWL	G21685/ST/308
WELL/2	G34879/EW/1010	4216 FNL, 7861 FEL	G34536/GC/40

Plan Control No. S-8243

OCS-G 34536, GC 40, OCS-G 21685, ST 308, OCS-G 34879, EW 1010

Document Change Log

Amendment Submittal Date	Page Number	Summary of Amendment
10/05/2026	Appendix A - OCS Plan Info Form for Platform A & pay.gov receipt	Corrected Lease number for Platform A, ST308 Attached pay.gov receipt
10/08/2026	Appendix N	Attached Vicinity Map

GC40 & EW1010
Well(s): SS002
OCS-G 34536, OCS-G 34879
SUPPLEMENTAL DEVELOPMENT OPERATIONS COORDINATION DOCUMENT

September 29, 2026

Marine MInerals Administration
New Orleans Regional Office
ATTN: Plans Section
1201 Elmwood Park Boulevard
New Orleans, LA 70123

Ladies and Gentlemen:

Talos QN Exploration LLC (Talos) has reviewed NTLs 2008-G04, BOEM 2015-N01 and other relevant NTLs and FAQs for the activities proposed herein and included in this submittal all pertinent proprietary and public information and documentation in regards to those activities. Talos submits the following Supplemental DOCD for the previously approved DOCD (S-8204) for the Green Canyon Block 40 field.

The activities noted above are expected to commence on or about July 1, 2027.

All questions and/or correspondence regarding this plan should be submitted to Erin Harold at (713) 335-6952 or via email at erin.harold@talosenergy.com.

Your expedited review is greatly appreciated.

Respectfully,

Erin Harold

Talos QN Exploration LLC

TALOS
QN EXPLORATION LLC

SUPPLEMENTAL DEVELOPMENT OPERATIONS COORDINATION DOCUMENT

PUBLIC INFORMATION

Lease Number:	**OCS-G 34536, OCS-G 34879**
Area/Block:	**GC40 & EW1010**
Well(s):	**SS002**
Offshore:	**Louisiana**

Submitted By: **Talos QN Exploration LLC (03672)**
333 Clay St., Suite 3300
Houston, Tx 77002

Erin Harold
(713) 335-6952
erin.harold@talosenergy.com

Estimated Start-up Date: **Thursday, July 1, 2027**

September 2026

GC40 & EW1010
Well(s): SS002
OCS-G 34536, OCS-G 34879

SUPPLEMENTAL DEVELOPMENT OPERATIONS COORDINATION DOCUMENT

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APPENDIX A
PLAN CONTENTS

A) PLAN INFORMATION

Talos QN Exploration LLC (Talos) submits this Supplemental DOCD to provide for the drilling and completion of EW1010 #2 well. This well will surface from the previously approved surface location in Green Canyon Block 40, Plan Control No. S-8204. The well will tie back to the South Timbalier Block 308 A-Trantula platform via the installation of a lease term pipeline.

Included in the attachments for this appendix is the OCS Plan Information Form-137, providing information on the activities proposed herein.

B) LOCATION

A map depicting the proposed surface and bottomhole location(s) is included in the attachment(s) to this appendix of the proprietary information copy of this plan. A map depicting the proposed surface location(s) is included in the attachment(s) to this appendix of the public information copy of this plan.

C) SAFETY AND POLLUTION PREVENTION FEATURES

Talos QN Exploration LLC proposes to utilize a DP Semisubmersible/Drillship for the drilling of this prospect. Rig specifications will be included in the Application for Permit to Drill.

Safety features on the drilling unit selected will include pollution prevention, well control, and blowout prevention equipment as described in Title 30 CFR Part 250, Subparts C, D, E, and G; and as further clarified by DOI Notices to Lessees, and current policy making invoked by the DOI, Environmental Protection Agency and the U.S. Coast Guard. A Safety and Environmental Management System that is consistent with Title 30 CFR Part 250 Subparts "O" and "S" will be in effect during the proposed operations. In addition, the Well Control System, consisting of subsea BOP equipment, BOP control system, choke and kill lines, choke manifold, mud-gas separator, circulation system and monitoring (PVT) equipment will be installed and available upon demand when the riser and BOP is attached to the well. The emergency systems consisting of secondary BOP activation equipment, firefighting and abandonment equipment utilized will meet or exceed the regulatory requirements of the DOI and USCG.

Pollution prevention measures will include the installation of curbs, gutters, drip pans, and drains on drilling deck areas to collect all contaminants and debris.

The drilling rig and each of the marine vessels servicing the rig and its operations will be equipped with all U.S. Coast Guard required navigational safety aids to alert ships of its presence in all weather conditions.

D) STORAGE TANKS AND/OR PRODUCTION VESSELS

The table below provides information on oil storage tanks with a capacity of 25 barrels or more that will be used to conduct the activities proposed herein. Since the capacities for both rig types are almost identical, this table is representative of either type rig.

Type of Storage Tank	Type of Facility	Tank Capacity (bbls)	Number of Tanks	Total Capacity (bbls)	Fluid Gravity (API)
Fuel Oil	Support Vessel	6630	1	6630	6630
Fuel Oil	MODU	9250	4	37000	32.4
Fuel Oil	Crew Boat	394	1	394	30
Fuel Oil	Support Vessel	6630	1	6630	30

E) POLLUTION PREVENTION

In accordance with NTL 2008-G04, this information is not applicable to the activities proposed herein as the State of Florida is not an affected State.

F) ADDITIONAL MEASURES

Talos QN Exploration LLC (Talos) will comply with regulations in 30 CFR Part 250 in regards to safety, pollution prevention, and early spill detection measures. Talos has also reviewed the numerous industry and

commission reports, as well as DOI's NTL's, and other guidance documents prepared since the 2010 Macondo blowout. As a result, Talos QN Exploration LLC has joined the HWCG LLC, and is also a member of Clean Gulf Associates and the National Response Corporation.

G) SERVICE FEE

In accordance with 30 CFR 250.125, included in the attachments for this appendix is a copy of the pay.gov receipt for the required service fee for the activities proposed herein.

U.S. Department of the Interior
Bureau of Ocean Energy Management

OMB Control Number: 1010-0151
OMB Approval Expires: 6/30/2021

OCS PLAN INFORMATION FORM

General Information

Type of OCS Plan:		Exploration Plan (EP)	Development Operations Coordination Document (DOCD)	
			X	S-DOCD

Company Name: Talos QN Exploration LLC	BOEM Operator Number: 03672
Address:	Contact Person: Erin Harold
333 Clay Street, Suite 3300	Phone Number: (713) 335-6952
Houston, TX 77002	E-Mail Address: erin.harold@talosenergy.com

If a service fee is required under 30 CFR 550.125(a), provide the	Amount paid	$5,565	Receipt No.	

Project and Worst Case Discharge (WCD) Information

Lease(s): OCS-G 34536 & 34879	Area: GC & EW	Block(s):	Project Name (If Applicable): Katmai

Objective(s)	X	Oil		Gas		Sulphur		Salt	Onshore Support Base(s): Fourchon, Louisiana

Platform/Well Name: ST 308 A/Well #2	Total Volume of WCD: 360650	API Gravity: 36.7°
Distance to Closest Land (Miles): 77	Volume from uncontrolled blowout:	

Have you previously provided information to verify the calculations and assumptions for your WCD?	X	Yes		No
If so, provide the Control Number of the EP or DOCD with which this information was provided	S-8204			
Do you propose to use new or unusual technology to conduct your activities?	X	Yes		No
Do you propose to use a vessel with anchors to install or modify a structure?		Yes	X	No
Do you propose any facility that will serve as a host facility for deepwater subsea development?		Yes	X	No

Description of Proposed Activities and Tentative Schedule (Mark all that apply)

Proposed Activity	Start Date	End Date	No. of Days
Drilling	3/1/2027	5/30/2027	90
Development drilling			
Well completion	05/31/2027	07/30/2027	60
Future Rig Activity 2028-2035	01/01/2028	12/31/2035	60 days/year
Installation or modification of structure			
Installation of production facilities			
Installation of subsea wellheads and/or manifolds			
Installation of lease term pipelines	08/01/2027	08/30/2027	30
Commence production			
Other (Specify and attach description)			

Description of Drilling Rig

	Jackup	X	Drillship		Caisson		Tension leg platform
	Gorilla Jackup		Platform rig		Fixed platform		Compliant tower
	Semisubmersible		Submersible		Spar		Guyed tower
X	DP Semisubmersible		Other (Attach Description)		Floating production system		Other (Attach Description)

Drilling Rig Name (If Known):

Description of Structure

(See table above)

Description of Lease Term Pipelines

From (Facility/Area/Block)	To (Facility/Area/Block)	Diameter (Inches)	Length (Feet)
Well #2/EW1010	K1 PLET	8"	150'

BOEM 0137 OCS Plan Info Form

OCS PLAN INFORMATION FORM (CONTINUED)
Include one copy of this page for each proposed well/structure

Proposed Well/Structure Location

Well or Structure Name/Number (If renaming well or structure, reference previous name): A-Tarantula					Previously reviewed under an approved EP or DOCD?	X	Yes		No
Is this an existing well or structure?		Yes X		No	If this is an existing well or structure, list the Complex ID or API No.	1500-1			
Do you plan to use a subsea BOP or a surface BOP on a floating facility to conduct your proposed activities?							Yes	X	No

WCD info	For wells, volume of uncontrolled blowout (Bbls/day): 360650	For structures, volume of all storage and pipelines (Bbls): 37132	API Gravity of fluid

	Surface Location	**Bottom-Hole Location (For Wells)**	**Completion (For multiple completions, enter separate lines)**
Lease No.	OCS G21685	OCS	OCS OCS
Area Name	ST		
Block No.	308		
Blockline Departures (in feet)	N/S Departure: F N ___ L 6,452'	N/S Departure: F____ L	N/S Departure: F____ L N/S Departure: F____ L N/S Departure: F____ L
	E/W Departure: F W ___ L 7,075'	E/W Departure: F____ L	E/W Departure: F____ L E/W Departure: F____ L E/W Departure: F____ L
Lambert X-Y coordinates	X: 2,356,445.22'	X:	X: X: X:
	Y: -182,040.84'	Y:	Y: Y: Y:
Latitude/ Longitude	Latitude 28° 9' 41.0904"	Latitude	Latitude Latitude Latitude
	Longitude -90° 13' 39.45"	Longitude	Longitude Longitude Longitude

Water Depth (Feet): 484'	MD (Feet): N/A	TVD (Feet): N/A	MD (Feet): MD (Feet): MD (Feet):	TVD (Feet): TVD (Feet): TVD (Feet):
Anchor Radius (if applicable) in feet:	N/A			

Anchor Locations for Drilling Rig or Construction Barge (If anchor radius supplied above, not necessary)

Anchor Name or No.	Area	Block	X Coordinate	Y Coordinate	Length of Anchor Chain on Seafloor
			X =	Y =	
			X =	Y =	
			X =	Y =	
			X =	Y =	
			X =	Y =	
			X =	Y =	
			X =	Y =	
			X =	Y =	

BOEM 0137 OCS Plan Info Form

OCS PLAN INFORMATION FORM (CONTINUED)
Include one copy of this page for each proposed well/structure

Proposed Well/Structure Location

Well or Structure Name/Number (If renaming well or structure, reference previous name): Well #2				Previously reviewed under an approved EP or DOCD?		Yes	X	No
Is this an existing well or structure?		Yes		No X	If this is an existing well or structure, list the Complex ID or API No.			
Do you plan to use a subsea BOP or a surface BOP on a floating facility to conduct your proposed activities?						X Yes		No

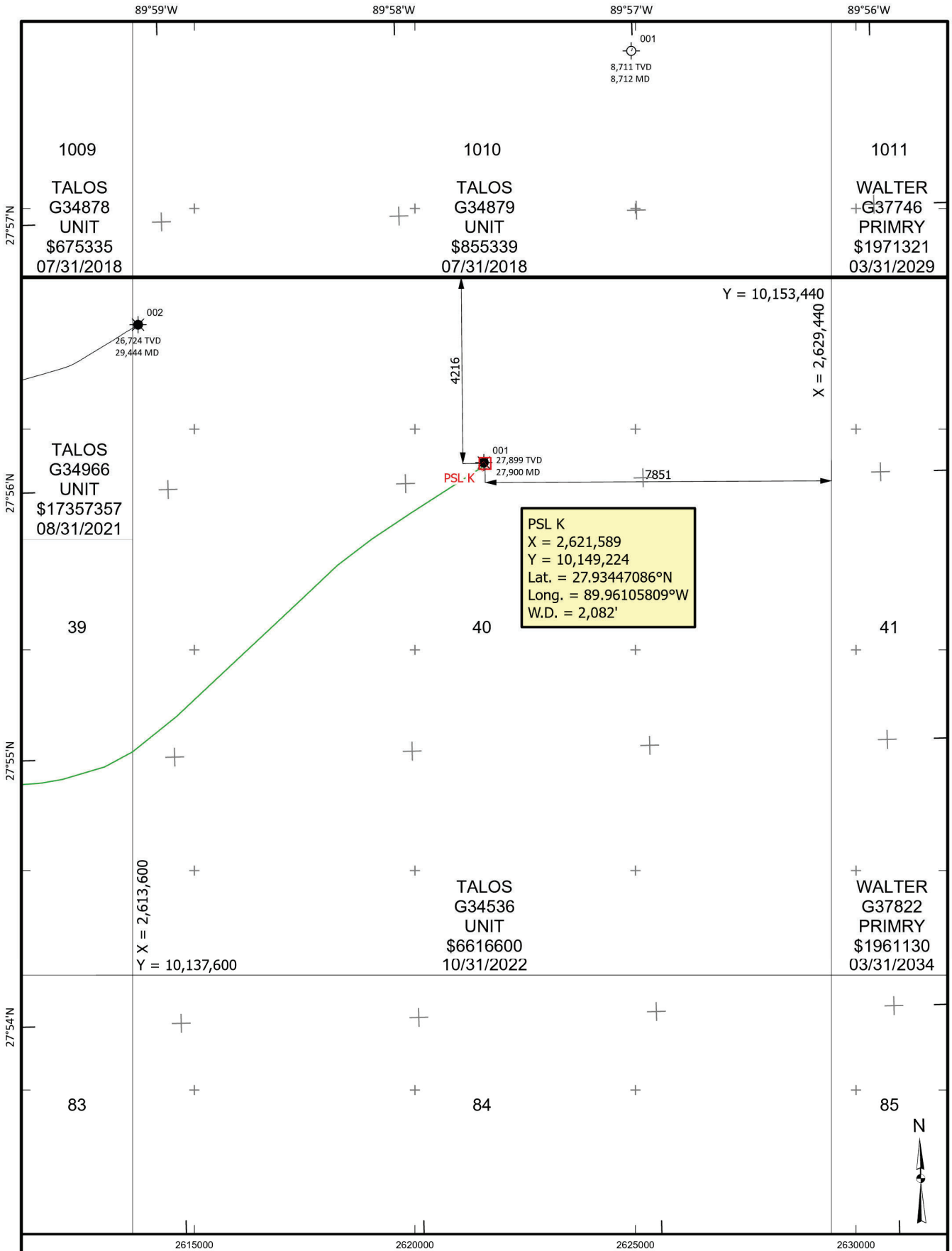
WCD info	For wells, volume of uncontrolled blowout (Bbls/day): 360,650	For structures, volume of all storage and pipelines (Bbls): 37132	API Gravity of fluid 36.7°	

	Surface Location	**Bottom-Hole Location (For Wells)**	**Completion (For multiple completions, enter separate lines)**
Lease No.	OCS G34536	OCS	OCS OCS
Area Name	Green Canyon		
Block No.	40		
Blockline Departures (in feet)	N/S Departure: F N ___ L 4,216.00'	N/S Departure: F S ___ L	N/S Departure: F____ L N/S Departure: F____ L N/S Departure: F____ L
	E/W Departure: F E ___ L 7,861.00'	E/W Departure: F E ___ L	E/W Departure: F____ L E/W Departure: F____ L E/W Departure: F____ L
Lambert X-Y coordinates	X: 2,621,589.00	X:	X: X: X:
	Y: 10,149,224.00	Y:	Y: Y: Y:
Latitude/ Longitude	Latitude 27.93447086°N	Latitude	Latitude Latitude Latitude
	Longitude 89.89.96105809°W	Longitude	Longitude Longitude Longitude
	Water Depth (Feet): 3212'	MD (Feet): / TVD (Feet):	MD (Feet): / TVD (Feet): MD (Feet): / TVD (Feet): MD (Feet): / TVD (Feet):
	Anchor Radius (if applicable) in feet: N/A		

Anchor Locations for Drilling Rig or Construction Barge (If anchor radius supplied above, not necessary)

Anchor Name or No.	Area	Block	X Coordinate	Y Coordinate	Length of Anchor Chain on Seafloor
			X =	Y =	
			X =	Y =	
			X =	Y =	
			X =	Y =	
			X =	Y =	
			X =	Y =	
			X =	Y =	
			X =	Y =	

BOEM 0137 OCS Plan Info Form



Legend

- Oil Pipelines (Active)
- Gas Pipelines (Active)
- Katmai East #2 PSL

Scale: 1:24,000

0 1,000 2,000 3,000 4,000 Feet

Spatial Reference
Name: NAD 1927 BLM Zone 15N
PCS: NAD 1927 BLM Zone 15N
GCS: GCS North American 1927
Datum: North American 1927
Projection: Transverse Mercator
Central Meridian: -93.0000
Latitude of Origin: 0.0000
Longitude of Origin: 0.0000
False Easting: 1,640,416.6667
False Northing: 0.0000
Scale Factor: 0.9996
Map Units: Foot US
Authority: EPSG
WKID: 32065

TALOS ENERGY INC.

Green Canyon Block 40 "Katmai East" Field
Gulf of Mexico

PUBLIC PLAT FOR KATMAI EAST PROPOSED LOCATION

Date Saved: 6/4/2025 8:05 AM
Author: KGallatin
Name: GC40_Katmai_East_Prop_#2_Public_Plat_20250602_KDG

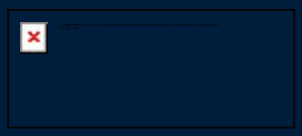
Location Plat

Path: K:\ARC\KGallatin\ArcPro\GOM\GC40_Katmai_East_Prop_#2_Public_Plat_20250602_KDG.aprx

Erin Harold

From: notification@pay.gov
Sent: Monday, October 5, 2026 8:14 AM
To: Erin Harold
Subject: Pay.gov Payment Confirmation: BOEM Development/DOCD Plan - BD


An official email of the United States government



Your payment has been submitted to Pay.gov and the details are below. If you have any questions regarding this payment, please contact Bert Readinger at (703) 787-1863 or bseefinanceaccountsreceivable@bsee.gov.

Application Name: BOEM Development/DOCD Plan - BD
Pay.gov Tracking ID: 286K6V2L
Agency Tracking ID: 77532135596
Transaction Type: Sale
Transaction Date: 10/05/2026 09:13:37 AM EDT
Account Holder Name: Melissa Sassella
Transaction Amount: $5,565.00
Card Type: MasterCard
Card Number: **********5056

Region: Gulf of America
Contact: Erin Harold (713) 335-6952
Company Name/No: Talos QN Exploration LLC, 03672
Lease Number(s): 34879, 34536
Area-Block: Ewing Bank EW, 1010: Green Canyon GC, 40
Type-Wells: Supplemental Plan, 1

THIS IS AN AUTOMATED MESSAGE. PLEASE DO NOT REPLY.


Pay.gov is a program of the U.S. Department of the Treasury, Bureau of the Fiscal Service

Pay.Gov Service Fee

APPENDIX B
GENERAL INFORMATION

A) APPLICATIONS & PERMITS

Listed in the table below are the applications and/or permits that are required to be filed prior to conducting the activities proposed herein:

Application/Permit	Issuing Agency	Status
Coastal Management Certification	LA Office of Coastal Management	Pending
Application for Permit to Drill (APD)	BSEE	Pending
NPDES	EPA	Pending
Pipeline Application	BSEE	Pending
Rig Emergency Evacuation Plan	USCG	Pending

B) DRILLING FLUIDS

In accordance with BOEM guidance, the required drilling fluid information has been incorporated into the Waste & Discharge tables which are included in the attachment(s) to the Waste & Discharge Information appendix.

Product Name	Amount to be Used	Reference Number
Bentonite	100 50-lb bags	CAS #1302-78-9
PureDrill IA-35	500 bbls	CAS #178603-63-9

C) PRODUCTION

PROPRIETARY INFORMATION

D) OIL CHARACTERISTICS

In accordance with NTL 2008-G04, this information is not applicable to the activities proposed herein as this is a DOCD that does not propose the production, handling, transporting or storing of oil where the State of Florida is an affected State, the activities proposed are not within the Protective Zones of the Flower Garden Banks and Stetson Bank, nor are we proposing to install a surface facility in water depths greater than 1,312 feet or a surface facility to support a subsea development in water depths greater than 1,312'.

E) NEW OR UNUSUAL TECHNOLOGY

Talos QN Exploration LLC (Talos) proposes the use of MPD to execute the proposed drilling activities. Specifics to the MPD program will be included as part of the Application for Permit to Drill.

F) BONDING STATEMENT

The bond requirements for the activities and facilities proposed in this DOCD are satisfied by a $3,000,000.00 areawide development bond, furnished and maintained according to 30 CFR 556, Subpart I, and NTL No. 2015-N04, "General Financial Assurance." Additional security will be satisfied in accordance with the regulations contained in 30 CFR 556.901(d) and NTL No. 2016-N01, "Requiring Additional Security."

G) OIL SPILL FINANCIAL RESPONSIBILITY

Talos QN Exploration LLC, BOEM company number 03672, has demonstrated oil spill financial responsibility for the facilities proposed in this EP according to 30 CFR Part 553; and NTL No. 2008-N05, "Guidelines for Oil Spill Financial Responsibility for Covered Facilities".

H) DEEPWATER WELL CONTROL STATEMENT

Talos QN Exploration LLC (01834) has the financial capability to drill a relief well and conduct other emergency well control operations.

I) SUSPENSION OF PRODUCTION

In accordance with NTL 2008-G04, this information is not applicable to this Development Operations Coordination Document as no suspensions of production have been approved, or are in the process of being obtained, or anticipated to be sought to hold the subject lease(s) or unit.

J) BLOWOUT SCENARIO

Talos provided a Blowout Scenario for the Worst Case Discharge Volume for the Katmai Field in Plan Control No. R-7160, approved on July 22, 2022, which established the Worst Case Discharge Volume for the Field. The proposed operations do not supersede the worst case discharge volume previously provided and approved.

APPENDIX C
GEOLOGICAL & GEOPHYSICAL INFORMATION

A) GEOLOGICAL DESCRIPTION
PROPRIETARY INFORMATION

B) STRUCTURE CONTOUR MAPS
A current structure map drawn to the top of each productive hydrocarbon sand, showing the location of the proposed well(s) and location(s) of geological cross-sections was previously provided under plan control no. S-8204.

C) INTERPRETED 2D/3D SEISMIC CROSS SECTIONS
In accordance with NTL 2008-G04, this information is not applicable to the activities proposed in this plan as no activities are being proposed in an area where the surface locations were not previously approved via Plan Control No. S-8204.

D) GEOLOGICAL STRUCTURE CROSS SECTIONS
This well is being drilled from a previously approved surface location, approved under plan control no. S-8204.

E) SHALLOW HAZARDS REPORT
An Archaeological and Hazard Survey and Site Clearance Letter proposed location was previously approved by letter dated January 21, 2020 under Plan Control No. N-10079.

F) SHALLOW HAZARDS ASSESSMENT
The Shallow Hazard Assessment was previously approved by letter dated January 21, 2020 under Plan Control No. N-10079.

G) HIGH RESOLUTION SEISMIC LINES
In accordance with NTL 2008-G04, this information is not applicable to the activities proposed in this plan as no activities are being proposed in an area where the surface locations were not previously approved via Plan Control No. S-8204.

H) TIME VS DEPTH TABLES
Sufficient well control data for the target areas proposed in this DOCD exists; therefore, seismic time versus depth tables for the proposed well locations are not required.

I) GEOCHEMICAL INFORMATION
In accordance with NTL 2008-G04, this information is not applicable to the activities proposed herein as the subject area is within the boundaries of the Gulf of Mexico.

J) FUTURE G&G ACTIVITIES
In accordance with NTL 2008-G04, this information is not applicable to the activities proposed herein as the subject area is within the boundaries of the Gulf of Mexico.

APPENDIX D
HYDROGEN SULFIDE INFORMATION

A) CONCENTRATION

In accordance with NTL 2008-G04, this information is not applicable to this plan as Talos QN Exploration LLC does not anticipate encountering any H2S during the operations proposed herein.

B) CLASSIFICATION

In accordance with 30 CFR 250.490(c), Lease No, OCS-G34536 has been classified by BOEM as H2S absent under the following Plans:

- Supplemental DOCD Control No. S-8127 approved on 12/12/2023
- Initial DOCD Control No. N-10079 approved on 01/21/2020

PROPRIETARY INFORMATION

C) H2S CONTINGENCY PLAN

In accordance with NTL 2008-G04, this information is not applicable to this plan as Talos QN Exploration LLC does not anticipate encountering H2S during the activities proposed herein.

D) MODELING REPORT

In accordance with NTL 2008-G04, this information is not applicable to this plan as Talos QN Exploration LLC does not anticipate encountering H2S during the activities proposed herein.

APPENDIX E
MINERAL RESOURCE CONSERVATION INFORMATION

A) TECHNOLOGY & RESERVOIR ENGINEERING PRACTICES & PROCEDURES
PROPRIETARY INFORMATION

B) TECHNOLOGY & RECOVERY PRACTICES & PROCEDURES
PROPRIETARY INFORMATION

C) RESERVOIR DEVELOPMENT
PROPRIETARY INFORMATION

APPENDIX F
BIOLOGICAL, PHYSICAL, & SOCIOECONOMIC INFORMATION

A) CHEMOSYNTHETIC COMMUNITIES REPORT
An assessment of chemosynthetic communities assocated with the subject lease area was included with the Shallow Hazards & Archaeological Assessment inlcluded in Plan Contorl No. N-10079.

B) TOPOGRAPHIC FEATURES MAP
In accordance with NTL 2008-G04, this information is not applicable to the activities proposed herein as no rig, barge or anchors,etc. will be placed within 1,000 feet of the "No Activity Zone" of an identified topographic feature.

C) TOPOGRAPHIC FEATURES STATEMENT (SHUNTING)
In accordance with NTL 2008-G04, this information is not applicable to the activities proposed herein as this is a Development Operations Coordination Document.

D) LIVE BOTTOM (PINNACLE TREND) MAP
In accordance with NTL 2008-G04, this information is not applicable to the activities proposed herein as the Live Bottom (Pinnacle Trend) lease stipulation is not attached to the subject lease(s).

E) LIVE BOTTOM (LOW RELIEF) MAP
In accordance with NTL 2008-G04, this information is not applicable to the activities proposed herein as the Live Bottom (Low Relief) lease stipulation is not attached to the subject lease(s).

F) POTENTIALLY SENSITIVE BIOLOGICAL FEATURES
In accordance with NTL 2009-G39. this information is not applicable to the activities proposed herein as the bottom-disturbing activities are not within 100 feet of potentially sensitive biological features.

G) REMOTELY OPERATED VEHICLE (ROV) SURVEYS
In accordance with NTL 2008-G04, this information is not applicable to the activities proposed herein as the location is in an area and block with a water depth less than 984 feet.

H) THREATENED & ENDANGERED SPECIES, CRITICAL HABITAT, & MARINE MAMMAL INFORMATION
Endangered marine mammal species as listed under the Endangered Species Act that might occur in the Gulf of Mexico are the Gulf of Mexico Bryde's Whale (Balaenoptera edeni), Oceanic Whitetip Shark (Carcharhinus longimanus), Giant Manta Ray (Manta birostris), West Indian manatee (Trichechus manatus), northern right whale (Eubalaena glacialis), fin whale (Balaenoptera physalus), humpback whale (Megaptera novaiangliae), sei whale (Balaenoptera borealis), sperm whale (Physeter macrocephalus), and blue whale (Balaenoptera musculus). Endangered or threatened sea turtle species that might occur in the Gulf of Mexico are Kemp's ridley (Lepidochelys kempii), green turtle (Chelonia mydas), hawksbill (Eretmochelys imbricate), leatherback (Demochelys coriacea), and loggerhead (Caretta caretta) (USDOI, OCS EIS/EA MMS 2007-2012). The only listed threatened fish species in the Gulf of Mexico is the Gulf sturgeon (Ancipenser oxyrincus desotoi).The subject area(s) and block(s) is not designated as a critical habitat for any of these species. Talos Energy does not anticipate that any threatened or endangered species will be adversely affected as a result of the activities proposed herein. However, in the unlikely event of an accident, adverse impacts to endangered marine mammal species are possible.
Talos Energy will adhere to the requirements as set forth in the following Notices to Lessees and guidelines, as applicable, to avoid or minimize impacts to any of the species listed in the ESA as a result of the operations conducted herein:

- NTL 2015-G03 "Marine Trash and Debris Awareness and Elimination"
- BOEM NTL 2016-G01 "Vessel Strike Avoidance and Injured/ Dead Protected Species Reporting
- BOEM NTL 2016-G02 "Implementation of Seismic Survey Mitigation Measures and Protected Species Observer Program" Biological Opinion 2020:
- Appendix A: Seismic Survey Mitigation and Protected Species Observer Protocols, found in the Biological Opinion issued by the National Marine Fisheries Service on March 13,2020
- Appendix B: Gulf of Mexico Marine Trash and Debris Awareness and Elimination Survey Protocols, found in the Biological Opinion issued by the National Marine Fisheries Service on March 13,2020
- Appendix C: Gulf of Mexico Vessel Strike Avoidance and Injured/Dead Aquatic Protected Species Reporting Protocols, found in the Biological Opinion issued by the National Marine Fisheries Service on March 13,2020
- Appendix J: Sea Turtle Handling and Resuscitation Guidelines, found in the Biological Opinion issued by the National Marine Fisheries Service on March 13,2020

I) ARCHAEOLOGICAL REPORT
An archaeological and geohazard assessment titled, "Archaeological, Engineering & HazardAssessment Proposed 'Katmai' Pipeline & Umbilical Routes," was conducted from Green Canyon 40 to South Timbalier 308 in June 2018 by Oceaneering International, Inc (OII). OII assigned thereport Project Number 198305. It was

previously approved under Plan Control No. N-10079 approved on January 21, 2020.

J) AIR & WATER QUALITY INFORMATION

In accordance with NTL 2008-G04, this information is not applicable to the activities proposed herein as the State of Florida is not an affected State.

K) SOCIOECONOMIC INFORMATION

In accordance with NTL 2008-G04, this information is not applicable to the activities proposed herein as the State of Florida is not an affected State.

APPENDIX G
WASTES AND DISCHARGES INFORMATION

A) PROJECTED GENERATED WASTES

In accordance with 30 CFR 550.217 and 30 CFR 550.248, information must be provided on all projected solid and liquid wastes likely to be generated by an operator's proposed activities including operational wastes permitted by the appropriate NPDES permit and any other identified wastes. Attached to this appendix is Table 2 entitled "Wastes you will generate, treat and downhole dispose or discharge to the GOM" which satisfies the requirements set forth by NTL 2008-G04 and the aforementioned CFRs.

B) PROJECTED OCEAN DISCHARGES

In accordance with 30 CFR 550.217 and 30 CFR 550.248, information must be provided on all projected solid and liquid wastes likely to be generated by an operator's proposed activities including operational wastes permitted by the appropriate NPDES permit and any other identified wastes. Attached to this appendix is Table 1 entitled "Wastes you will transport and/or dispose of onshore" which satisfies the requirements set forth by NTL 2008-G04 and the aforementioned CFRs.

C) MODELING REPORT

In accordance with NTL 2008-G04, this information is not applicable to the activities proposed herein as the subject activities do not require an individual NPDES permit. Therefore, a modeling report is not mandated.

D) NPDES PERMITS

The subject rig and/or facility will be covered under Talos QN Exploration LLC's General Permit upon commencement of the activities proposed herein.

E) COOLING WATER INTAKES

In accordance with NTL 2008-G04, this information is not applicable to the activities proposed herein as the associated leases are within the Gulf of Mexico Region.

TABLE 1. WASTES YOU WILL GENERATE, TREAT AND DOWNHOLE DISPOSE OR DISCHARGE TO THE GOM

please specify if the amount reported is a total or per well amount

Projected generated waste			Projected ocean discharges	
Type of Waste	**Composition**	**Projected Amount**	**Discharge rate**	**Discharge Method**
Will drilling occur ? If yes, you should list muds and cuttings		**Yes**		
Water-based drilling fluid	**Water based drilling fluids used while drilling riserless**	**72000 bbls/well**	**9000 bbls/day/well**	**discharge at seafloor during riserless operations**
Cuttings wetted with water-based fluid	**Cuttings generated while using water based drilling fluids in riserless operations**	**3840 bbls/well**	**480 bbls/day/well**	**discharge at seafloor during riserless operations**
Cuttings wetted with synthetic-based fluid	**Cuttings generated while using synthetic based drilling fluid**	**9680 bbls/well**	**110 bbls/day/well**	**dried & discharge overboard**
Will humans be there? If yes, expect conventional waste				
Domestic waste	**grey water from living quarters**	**23040 bbls/well**	**240 bbls/day/well**	**USCG approved MSD with chlorination and discharge overboard**
Sanitary waste	**treated sanitary waste from living quarters**	**18432 bbls/well**	**192 bbls/day/well**	**USCG approved MSD with chlorination and discharge overboard**
Is there a deck? If yes, there will be Deck Drainage				
Deck Drainage	**washwater, rain water and deck drainage**	**3781 bbls/well**	**288 bbls/hr/well**	**discharge overboard**
Will you conduct well treatment, completion, or workover?				
Well treatment fluids	**N/A**	**N/A**	**N/A**	**N/A**
Well completion fluids	**Calcium Bromide & Glycol**	**14,000 bbls**	**N/A**	**Completion fluid is recyled from well to well and is not discharged**
Workover fluids	**N/A**	**N/A**	**N/A**	**N/A**
Miscellaneous discharges. If yes, only fill in those associated with your activity.				
Desalinization unit discharge	**desalinization unit water**	**9600 bbls/well**	**100 bbls/day/well**	**discharge overboard**
Blowout prevent fluid	**Water-based hydraulic control fluid**	**192 bbls/well**	**2 bbls/day/well**	**discharged from vent ports on BOP stack**
Uncontaminated Ballast water	**Uncontaminated seawater**	**384000 bbls/well**	**4000 bbls/day/well**	**per MARPOL regulations**
Rig Wash Water	**Fresh Water & Soap**	**4800 bbls/well**	**50 bbls/day/well**	**discharge overboard**
Uncontaminated Bilge water	**Uncontaminated bilge water**	**1920 bbls/well**	**20 bbls/day/well**	**discharge overboard**
Excess cement at seafloor	**Water, CaCl Class H cement & rheological modifiers**	**2000 bbls/well**	**1000 bbls/day for 2 days/well (only when the 28" & 22" casing are run)**	**discharge at seafloor**
Cement Spacer	**Water base fluid, viscosifier, barite & gel**	**200 bbls/well**	**100 bbls/day for 2 days/well (only when the 28" & 22" casing are run)**	**discharge at seafloor**
Fire water	**Seawater**	**NA**	**NA**	**discharge overboard**
Uncontaminated Cooling water	**Seawater**	**NA**	**NA**	**discharge overboard**
Will you produce hydrocarbons? If yes fill in for produced water.				
Produced water (During Well Test)	**N/A**	**N/A**	**N/A**	**N/A**
Will you be covered by an individual or general NPDES permit ?		**General Permit**		
NOTE: If you will not have a type of waste, enter NA in the row.				

Projected Generated Wastes

TABLE 1. WASTES YOU WILL GENERATE, TREAT AND DOWNHOLE DISPOSE OR DISCHARGE TO THE GOM

please specify if the amount reported is a total or per well amount

Projected generated waste			Projected ocean discharges		Proje Down Disp
Type of Waste	Composition	Projected Amount	Discharge rate	Discharge Method	Answer
drilling occur ? If yes, you should list muds and cuttings		Yes			
Water-based drilling fluid	Water based drilling fluids used while drilling riserless	72000 bbls/well	9000 bbls/day/well	discharge at seafloor during riserless operations	N
Cuttings wetted with water-based fluid	Cuttings generated while using water based drilling fluids in riserless operations	3840 bbls/well	480 bbls/day/well	discharge at seafloor during riserless operations	N
Cuttings wetted with synthetic-based fluid	Cuttings generated while using synthetic based drilling fluid	9680 bbls/well	110 bbls/day/well	dried & discharge overboard	N
humans be there? If yes, expect conventional waste					
Domestic waste	grey water from living quarters	23040 bbls/well	240 bbls/day/well	USCG approved MSD with chlorination and discharge overboard	N
Sanitary waste	treated sanitary waste from living quarters	18432 bbls/well	192 bbls/day/well	USCG approved MSD with chlorination and discharge overboard	N
here a deck? If yes, there will be Deck Drainage					
Deck Drainage	washwater, rain water and deck drainage	3781 bbls/well	288 bbls/hr/well	discharge overboard	N
you conduct well treatment, completion, or workover?					
Well treatment fluids	N/A	N/A	N/A	N/A	N/
Well completion fluids	Calcium Bromide & Glycol	14,000 bbls	N/A	Completion fluid is recyled from well to well and is not discharged	N
Workover fluids	N/A	N/A	N/A	N/A	N/
cellaneous discharges. If yes, only fill in those associated with your activity.					
Desalinization unit discharge	desalinization unit water	9600 bbls/well	100 bbls/day/well	discharge overboard	N/
Blowout prevent fluid	Water-based hydraulic control fluid	192 bbls/well	2 bbls/day/well	discharged from vent ports on BOP stack	N
Uncontaminated Ballast water	Uncontaminated seawater	384000 bbls/well	4000 bbls/day/well	per MARPOL regulations	N
Rig Wash Water	Fresh Water & Soap	4800 bbls/well	50 bbls/day/well	discharge overboard	N
Uncontaminated Bilge water	Uncontaminated bilge water	1920 bbls/well	20 bbls/day/well	discharge overboard	N
Excess cement at seafloor	Water, CaCl Class H cement & rheological modifiers	2000 bbls/well	1000 bbls/day for 2 days/well (only when the 28" & 22" casing are run)	discharge at seafloor	N
Cement Spacer	Water base fluid, viscosifier, barite & gel	200 bbls/well	100 bbls/day for 2 days/well (only when the 28" & 22" casing are run)	discharge at seafloor	N
Fire water	Seawater	NA	NA	discharge overboard	N
Uncontaminated Cooling water	Seawater	NA	NA	discharge overboard	N
you produce hydrocarbons? If yes fill in for produced water.					
Produced water (During Well Test)	N/A	N/A	N/A	N/A	N/
you be covered by an individual or general NPDES permit ?		General Permit			
TE: If you will not have a type of waste, enter NA in the row.					

Projected Generated Wastes

TABLE 1. WASTES YOU WILL GENERATE, TREAT AND DOWNHOLE DISPOSE OR DISCHARGE TO THE GOM

please specify if the amount reported is a total or per well amount

Projected generated waste			Projected ocean discharges	
Type of Waste	**Composition**	**Projected Amount**	**Discharge rate**	**Discharge Method**
drilling occur ? If yes, you should list muds and cuttings		**Yes**		
Water-based drilling fluid	**Water based drilling fluids used while drilling riserless**	**72000 bbls/well**	**9000 bbls/day/well**	**discharge at seafloor during riserless operations**
Cuttings wetted with water-based fluid	**Cuttings generated while using water based drilling fluids in riserless operations**	**3840 bbls/well**	**480 bbls/day/well**	**discharge at seafloor during riserless operations**
Cuttings wetted with synthetic-based fluid	**Cuttings generated while using synthetic based drilling fluid**	**9680 bbls/well**	**110 bbls/day/well**	**dried & discharge overboard**
humans be there? If yes, expect conventional waste				
Domestic waste	**grey water from living quarters**	**23040 bbls/well**	**240 bbls/day/well**	**USCG approved MSD with chlorination and discharge overboard**
Sanitary waste	**treated sanitary waste from living quarters**	**18432 bbls/well**	**192 bbls/day/well**	**USCG approved MSD with chlorination and discharge overboard**
here a deck? If yes, there will be Deck Drainage				
Deck Drainage	**washwater, rain water and deck drainage**	**3781 bbls/well**	**288 bbls/hr/well**	**discharge overboard**
you conduct well treatment, completion, or workover?				
Well treatment fluids	**N/A**	**N/A**	**N/A**	**N/A**
Well completion fluids	**Calcium Bromide & Glycol**	**14,000 bbls**	**N/A**	**Completion fluid is recyled from well to well and is not discharged**
Workover fluids	**N/A**	**N/A**	**N/A**	**N/A**
cellaneous discharges. If yes, only fill in those associated with your activity.				
Desalinization unit discharge	**desalinization unit water**	**9600 bbls/well**	**100 bbls/day/well**	**discharge overboard**
Blowout prevent fluid	**Water-based hydraulic control fluid**	**192 bbls/well**	**2 bbls/day/well**	**discharged from vent ports on BOP stack**
Uncontaminated Ballast water	**Uncontaminated seawater**	**384000 bbls/well**	**4000 bbls/day/well**	**per MARPOL regulations**
Rig Wash Water	**Fresh Water & Soap**	**4800 bbls/well**	**50 bbls/day/well**	**discharge overboard**
Uncontaminated Bilge water	**Uncontaminated bilge water**	**1920 bbls/well**	**20 bbls/day/well**	**discharge overboard**
Excess cement at seafloor	**Water, CaCl Class H cement & rheological modifiers**	**2000 bbls/well**	**1000 bbls/day for 2 days/well (only when the 28" & 22" casing are run)**	**discharge at seafloor**
Cement Spacer	**Water base fluid, viscosifier, barite & gel**	**200 bbls/well**	**100 bbls/day for 2 days/well (only when the 28" & 22" casing are run)**	**discharge at seafloor**
Fire water	**Seawater**	**NA**	**NA**	**discharge overboard**
Uncontaminated Cooling water	**Seawater**	**NA**	**NA**	**discharge overboard**
you produce hydrocarbons? If yes fill in for produced water.				
Produced water (During Well Test)	**N/A**	**N/A**	**N/A**	**N/A**
you be covered by an individual or general NPDES permit ?		**General Permit**		
TE: If you will not have a type of waste, enter NA in the row.				

Projected Generated Wastes

TABLE 2. WASTES YOU WILL TRANSPORT AND /OR DISPOSE OF ONSHORE

Please specify whether the amount reported is a total or per well

Projected generated waste		Solid and Liquid Wastes transportation	Waste Disposal		
Type of Waste	Composition	Transport Method	Name/Location of Facility	Amount	Disposal Method
Will drilling occur ? If yes, fill in the muds and cuttings.					
Oil-based drilling fluid or mud	N/A	N/A	N/A	N/A	N/A
Synthetic-based drilling fluid or mud	Used SBM consisting of base oil (isomerized alpha olefin), barite, CaCl, Acrylate Copolymer, Limestone, Lime, and invert emulsifiers and wetting agent, assuming surface volume only	Below deck storage tanks on offshore support vessels	Mud Supplier Facility, Fourchon, LA	10000 bbls/well	Returned to Mud Supplier Facility in Fourchon and reconditioned for future use
Synthetic-based drilling fluid or mud	Contaminated used synthetic-based drilling fluid	Below deck storage tanks on offshore support vessels	ECOSERV/Fourchon	Varies	Recycle / Injection well
Cuttings wetted with Water-based fluid	N/A	N/A	N/A	N/A	N/A
Cuttings wetted with Synthetic-based fluid	Formation cuttings, SBM Base oil (isomerized alpha olefin), barite, CaCl, Acrylate Copolymer, LCM, Limestone, Lime, and invert emulsifiers and wetting agent contaminated with formation oil	Cuttings boxes on supply vessels	ECOSERV/Fourchon	10000 bbls/well	Recycle / Injection well
Cuttings wetted with oil-based fluids	N/A	N/A	N/A	N/A	N/A
Displacement Pills & Interface	Base oil, barite, water wetting agents, surfactants & viscosifyers	Hull Storage tanks or DOT tanks on supply vessels	R360 Environmental Solutions/Fourchon	1000 bbls/well	Injection well or recycled
Excess Water Base Mud	Freshwater, CaCl, NaCl, Barite, Bentonite, Lime, XCD Polymer	Below deck storage tanks on offshore support vessels	Mud Supplier Facility, Fourchon, LA	30000 bbls/well	Returned to Mud Supplier Facility in Fourchon and reconditioned for future use
Will you produce hydrocarbons? If yes fill in for produced sand.					
Produced sand	N/A	N/A	N/A	N/A	N/A
Will you have additional wastes that are not permitted for discharge? If yes, fill in the appropriate rows.					
Trash and debris	Domestic trash, plastic, paper, aluminum	40 cu ft super sacks transported by boat	Progresso Galliano Waste	800 lbs/week/well	Landfill or recycled and disposed per classification
Contaminated pills & interface	Base oil, barite, water wetting agents, surfactants & viscosifyers, contaminated mud and brine with formation oil	Transport to shore by boat in drums or DOT tanks for disposal at an approved disposal facility	R360 Environmental Solutions/Fourchon	1000 bbls/well	Recycle or Injection well
Used oil	Oil	550 gal tote tank transported by boat	Martin Energy/Fourchon	20 bbls/mo/well	Recycle
Wash water from mud tanks	Water, surfactants & solids from mud system if zero discharge	Hull Storage tanks or DOT tanks on supply vessels	R360 Environmental Solutions/Fourchon	1500 bbls/mo/well	Recycle or Injection well
Chemical Product Wastes	Paint & thinner waste	Drums or tote tanks on supply vessels	EDI Environmental Services/ Lafayette LA	10 bbls/mo/well	Recycle
Drums of oily rags & filters	Oily rags and filters impregnated with oil & grease	DOT drums transported by boat	Martin Energy/Fourchon	5 drums/mo/well	Recycle

NOTE: If you will not have a type of waste, enter NA in the row.

Projected Ocean Discharges

APPENDIX H
AIR EMISSIONS INFORMATION

A) Attached to this appendix are emissions worksheets showing the emissions calculations for the Plan Emissions, and if different, a set of worksheets showing the emissions calculations for the Complex Total emissions.

(A) AQR SCREENING QUESTIONS –

Screen Procedures for EP's	Yes	No
Is any calculated Complex Total (CT) Emission amount (tons) associated with your proposed exploration activities more than 90% of the amounts calculated using the following formulas: CT = $3400D^{2/3}$ for CO, and CT = 33.3D for the other air pollutants (where D = distance to shore in miles)?		X
Do your emission calculations include any emission reduction measures or modified emission factors?		X
Are your proposed exploration activities located east of 87.5° W longitude?		X
Do you expect to encounter H_2S at concentrations greater than 20 parts per million (ppm)?		X
Do you propose to flare or vent natural gas for more than 48 continuous hours from any proposed well?		X
Do you propose to burn produced hydrocarbon liquids?		X

AQR Screening Questions

OMB Control No. 1010-0151
OMB Approval Expires: 08/31/2023

COMPANY	Talos QN Exploration LLC
AREA	Ewing Bank
BLOCK	1010
LEASE	OCS-G34879
FACILITY	N/A
WELL	#2
COMPANY CONTACT	Erin Harold
TELEPHONE NO.	713-335-6952
REMARKS	Drilling & completion of 1 well (#2) using drillship or DP Semisubmersible and setting of 1 lease-term pipeline. This includes potential rig emissions each year to allow for scheduling flexibility.

LEASE TERM PIPELINE CONSTRUCTION INFORMATION:

YEAR	NUMBER OF PIPELINES	TOTAL NUMBER OF CONSTRUCTION DAYS
2026		
2027	1	30
2028		
2029		
2030		
2031		
2032		
2033		
2034		
2035		
2036		
2037		

AIR EMISSIONS COMPUTATION FACTORS

Fuel Usage Conversion Factors	Natural Gas Turbines				Natural Gas Engines		Diesel Recip. Engine		Diesel Turbines			
	SCF/hp-hr	9.524			SCF/hp-hr	7.143	GAL/hp-hr	0.0514	GAL/hp-hr	0.0514		

Equipment/Emission Factors	units	TSP	PM10	PM2.5	SOx	NOx	VOC	Pb	CO	NH3	REF.	DATE	Reference Links
Natural Gas Turbine	g/hp-hr		0.0086	0.0086	0.0026	1.4515	0.0095	N/A	0.3719	N/A	AP42 3.1-1& 3.1-2a	4/00	https://www3.epa.gov/ttnchie1/ap42/ch03/final/c03s01.pdf
RECIP. 2 Cycle Lean Natural Gas	g/hp-hr		0.1293	0.1293	0.0020	6.5998	0.4082	N/A	1.2009	N/A	AP42 3.2-1	7/00	https://www3.epa.gov/ttn/chief/ap42/ch03/final/c03s02.pdf
RECIP. 4 Cycle Lean Natural Gas	g/hp-hr		0.0002	0.0002	0.0020	2.8814	0.4014	N/A	1.8949	N/A	AP42 3.2-2	7/00	https://www3.epa.gov/ttn/chief/ap42/ch03/final/c03s02.pdf
RECIP. 4 Cycle Rich Natural Gas	g/hp-hr		0.0323	0.0323	0.0020	7.7224	0.1021	N/A	11.9408	N/A	AP42 3.2-3	7/00	https://www3.epa.gov/ttn/chief/ap42/ch03/final/c03s02.pdf
Diesel Recip. < 600 hp	g/hp-hr	1	1	1	0.0279	14.1	1.04	N/A	3.03	N/A	AP42 3.3-1	10/96	https://www3.epa.gov/ttnchie1/ap42/ch03/final/c03s03.pdf
Diesel Recip. > 600 hp	g/hp-hr	0.32	0.182	0.178	0.0055	10.9	0.29	N/A	2.5	N/A	AP42 3.4-1 & 3.4-2	10/96	https://www3.epa.gov/ttn/chief/ap42/ch03/final/c03s04.pdf
Diesel Boiler	lbs/bbl	0.0840	0.0420	0.0105	0.0089	1.0080	0.0084	5.14E-05	0.2100	0.0336	AP42 1.3-6; Pb and NH3: WebFIRE (08/2018)	9/98 and 5/10	https://www3.epa.gov/ttnchie1/ap42/ch01/final/c01s03.pdf https://cfpub.epa.gov/webfire/
Diesel Turbine	g/hp-hr	0.0381	0.0137	0.0137	0.0048	2.7941	0.0013	4.45E-05	0.0105	N/A	AP42 3.1-1 & 3.1-2a	4/00	https://www3.epa.gov/ttnchie1/ap42/ch03/final/c03s01.pdf
Dual Fuel Turbine	g/hp-hr	0.0381	0.0137	0.0137	0.0048	2.7941	0.0095	4.45E-05	0.3719	0.0000	AP42 3.1-1& 3.1-2a; AP42 3.1-1 & 3.1-2a	4/00	https://cfpub.epa.gov/webfire/
Vessels – Propulsion	g/hp-hr	0.320	0.1931	0.1873	0.0047	7.6669	0.2204	2.24E-05	1.2025	0.0022	USEPA 2017 NEI;TSP refer to Diesel Recip. > 600 hp reference	3/19	
Vessels – Drilling Prime Engine, Auxiliary	g/hp-hr	0.320	0.1931	0.1873	0.0047	7.6669	0.2204	2.24E-05	1.2025	0.0022	USEPA 2017 NEI;TSP refer to Diesel Recip. > 600 hp reference	3/19	https://www.epa.gov/air-emissions-inventories/2017-national-emissions-inventory-nei-data
Vessels – Diesel Boiler	g/hp-hr	0.0466	0.1491	0.1417	0.4400	1.4914	0.0820	3.73E-05	0.1491	0.0003	USEPA 2017 NEI;TSP (units converted) refer to Diesel Boiler Reference	3/19	
Vessels – Well Stimulation	g/hp-hr	0.320	0.1931	0.1873	0.0047	7.6669	0.2204	2.24E-05	1.2025	0.0022	USEPA 2017 NEI;TSP refer to Diesel Recip. > 600 hp reference	3/19	
Natural Gas Heater/Boiler/Burner	lbs/MMscf	7.60	1.90	1.90	0.60	190.00	5.50	5.00E-04	84.00	3.2	AP42 1.4-1 & 1.4-2; Pb and NH3: WebFIRE (08/2018)	7/98 and 8/18	https://www3.epa.gov/ttnchie1/ap42/ch01/final/c01s04.pdf https://cfpub.epa.gov/webfire/
Combustion Flare (no smoke)	lbs/MMscf	0.00	0.00	0.00	0.57	71.40	35.93	N/A	325.5	N/A	AP42 13.5-1, 13.5-2	2/18	https://www3.epa.gov/ttn/chief/ap42/ch13/final/C13S05_02-05-18.pdf
Combustion Flare (light smoke)	lbs/MMscf	2.10	2.10	2.10	0.57	71.40	35.93	N/A	325.5	N/A	AP42 13.5-1, 13.5-2	2/18	
Combustion Flare (medium smoke)	lbs/MMscf	10.50	10.50	10.50	0.57	71.40	35.93	N/A	325.5	N/A	AP42 13.5-1, 13.5-2	2/18	
Combustion Flare (heavy smoke)	lbs/MMscf	21.00	21.00	21.00	0.57	71.40	35.93	N/A	325.5	N/A	AP42 13.5-1, 13.5-2	2/18	
Liquid Flaring	lbs/bbl	0.42	0.0966	0.0651	5.964	0.84	0.01428	5.14E-05	0.21	0.0336	AP42 1.3-1 through 1.3-3 and 1.3-5	5/10	https://www3.epa.gov/ttnchie1/ap42/ch01/final/c01s03.pdf
Storage Tank	tons/yr/tank						4.300				2014 Gulfwide Inventory; Avg emiss (upper bound of 95% CI)	2017	https://www.boem.gov/environment/environmental-studies/2014-gulfwide-emission-inventory
Fugitives	lbs/hr/component						0.0005				API Study	12/93	https://www.apiwebstore.org/publications/item.cgi?9879d38a-8bc0-4abe-bb5c-9b623870125d
Glycol Dehydrator	tons/yr/dehydrator						19.240				2011 Gulfwide Inventory; Avg emiss (upper bound of 95% CI)	2014	https://www.boem.gov/environment/environmental-studies/2011-gulfwide-emission-inventory
Cold Vent	tons/yr/vent						44.747				2014 Gulfwide Inventory; Avg emiss (upper bound of 95% CI)	2017	https://www.boem.gov/environment/environmental-studies/2014-gulfwide-emission-inventory
Waste Incinerator	lb/ton		15.0	15.0	2.5	2.0	N/A	N/A	20.0	N/A	AP 42 2.1-12	10/96	https://www3.epa.gov/ttnchie1/ap42/ch02/final/c02s01.pdf
On-Ice – Loader	lbs/gal	0.043	0.043	0.043	0.040	0.604	0.049	N/A	0.130	0.003	USEPA NONROAD2008 model; TSP (units converted) refer to Diesel Recip. <600 reference	2009	https://www.epa.gov/moves/nonroad2008a-installation-and-updates
On-Ice – Other Construction Equipment	lbs/gal	0.043	0.043	0.043	0.040	0.604	0.049	N/A	0.130	0.003	USEPA NONROAD2008 model; TSP (units converted) refer to Diesel Recip. <600 reference	2009	
On-Ice – Other Survey Equipment	lbs/gal	0.043	0.043	0.043	0.040	0.604	0.049	N/A	0.130	0.003	USEPA NONROAD2008 model; TSP (units converted) refer to Diesel Recip. <600 reference	2009	
On-Ice – Tractor	lbs/gal	0.043	0.043	0.043	0.040	0.604	0.049	N/A	0.130	0.003	USEPA NONROAD2008 model; TSP (units converted) refer to Diesel Recip. <600 reference	2009	
On-Ice – Truck (for gravel island)	lbs/gal	0.043	0.043	0.043	0.040	0.604	0.049	N/A	0.130	0.003	USEPA NONROAD2008 model; TSP (units converted) refer to Diesel Recip. <600 reference	2009	
On-Ice – Truck (for surveys)	lbs/gal	0.043	0.043	0.043	0.040	0.604	0.049	N/A	0.130	0.003	USEPA NONROAD2008 model; TSP (units converted) refer to Diesel Recip. <600 reference	2009	
Man Camp - Operation (max people/day)	tons/person/day		0.0004	0.0004	0.0004	0.006	0.001	N/A	0.001	N/A	BOEM 2014-1001	2014	https://www.boem.gov/sites/default/files/uploadedFiles/BOEM/BOEM_Newsroom/Library/Publications/2014-1001.pdf
Vessels - Ice Management Diesel	g/hp-hr	0.320	0.1931	0.1873	0.0047	7.6669	0.2204	2.24E-05	1.2025	0.0022	USEPA 2017 NEI;TSP refer to Diesel Recip. > 600 hp reference	3/19	https://www.epa.gov/air-emissions-inventories/2017-national-emissions-inventory-nei-data
Vessels - Hovercraft Diesel	g/hp-hr	0.320	0.1931	0.1873	0.0047	7.6669	0.2204	2.24E-05	1.2025	0.0022	USEPA 2017 NEI;TSP refer to Diesel Recip. > 600 hp reference	3/19	

Sulfur Content Source	Value	Units
Fuel Gas	3.38	ppm
Diesel Fuel	0.0015	% weight
Produced Gas (Flare)	3.38	ppm
Produced Oil (Liquid Flaring)	1	% weight

Natural Gas Flare Parameters	Value	Units
VOC Content of Flare Gas	0.6816	lb VOC/lb-mol gas
Natural Gas Flare Efficiency	98	%

Density and Heat Value of Diesel Fuel		
Density	7.05	lbs/gal
Heat Value	19,300	Btu/lb

Heat Value of Natural Gas		
Heat Value	1,050	MMBtu/MMscf

AQR Spreadsheet

AIR EMISSIONS CALCULATIONS - 2ND YEAR

COMPANY	AREA		BLOCK	LEASE	FACILITY	WELL					CONTACT	PHONE	REMARKS
Talos QN Exploration LLC	Ewing Bank		1010	OCS-G34879	N/A	#2					Erin Herold	713-335-6952	Drilling & completion of 1 well (#2) using drillship or DP Semisubmersible and setting of 1 lease-term pipeline. This includes potential rig emissions each year to allow for scheduling flexibility.

OPERATIONS	EQUIPMENT	EQUIPMENT ID	RATING	MAX. FUEL	ACT. FUEL	RUN TIME		MAXIMUM POUNDS PER HOUR									ESTIMATED TONS								
	Diesel Engines		HP	GAL/HR	GAL/D																				
	Nat. Gas Engines		HP	SCF/HR	SCF/D																				
	Burners		MMBTU/HR	SCF/HR	SCF/D	HR/D	D/YR	TSP	PM10	PM2.5	SOx	NOx	VOC	Pb	CO	NH3	TSP	PM10	PM2.5	SOx	NOx	VOC	Pb	CO	NH3
DRILLING	VESSELS- Drilling - Propulsion Engine - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS- Drilling - Propulsion Engine - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS- Drilling - Propulsion Engine - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS- Drilling - Propulsion Engine - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vessels - Diesel Boiler		0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vessels – Drilling Main Engines		37012	1904.1194	45698.86	24	150	26.11	15.75	15.28	0.38	625.60	17.99	0.00	98.12	0.18	47.00	28.36	27.51	0.68	1126.08	32.38	0.00	176.62	0.33
PIPELINE INSTALLATION	VESSELS - Pipeline Laying Vessel - Diesel		9052.5	465.71492	11177.16	24	30	6.39	3.85	3.74	0.09	153.01	4.40	0.00	24.00	0.04	2.30	1.39	1.35	0.03	55.08	1.58	0.00	8.64	0.02
	VESSELS - Pipeline Laying Vessel - Diesel		12070	620.95322	14902.88	24	30	8.52	5.14	4.98	0.12	204.02	5.87	0.00	32.00	0.06	3.07	1.85	1.79	0.04	73.45	2.11	0.00	11.52	0.02
	VESSELS - Pipeline Burying - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FACILITY INSTALLATION	VESSELS - Heavy Lift Vessel/Derrick Barge Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRODUCTION	RECIP.<600hp Diesel - DGE #8	DGE-8	915	47.07309	1129.75	24	0	2.02	2.02	2.02	0.06	28.44	2.10	--	6.11	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - DGE #9	DGE-9	913	46.970198	1127.28	24	0	2.01	2.01	2.01	0.06	28.38	2.09	--	6.10	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - N Crane	DGE-1	460	23.66516	567.96	24	0	1.01	1.01	1.01	0.03	14.30	1.05	--	3.07	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - S Crane	DGE-3	220	11.31812	271.63	24	0	0.49	0.49	0.49	0.01	6.84	0.50	--	1.47	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - PBA-6090	DGE-2	150	7.7169	185.21	24	0	0.33	0.33	0.33	0.01	4.66	0.34	--	1.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - Rental Gen	RENTALGEN	680	34.98328	839.60	24	0	1.50	1.50	1.50	0.04	21.14	1.56	--	4.54	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel Rental Generator		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Turbine #1	NGT-1	4500	231.507	5556.17	24	0	9.92	9.92	9.92	0.28	139.88	10.32	--	30.06	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Turbine #2	NGT-2	4500	231.507	5556.17	24	0	9.92	9.92	9.92	0.28	139.88	10.32	--	30.06	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Engine #1	NGE-1	414	21.298644	511.17	24	0	0.91	0.91	0.91	0.03	12.87	0.95	--	2.77	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Engine #2	NGE-2	1680	86.42928	2074.30	24	0	3.70	3.70	3.70	0.10	52.22	3.85	--	11.22	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Engine #3	NGE-3	1680	86.42928	2074.30	24	0	3.70	3.70	3.70	0.10	52.22	3.85	--	11.22	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Heater/Boiler/Burner	HTR	7.5	0.385845	9.26	24	0	0.02	0.02	0.02	0.00	0.23	0.02	--	0.05	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.>600hp Diesel Generator		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
			0	0	0.00	0	0	--	0.00	0.00	0.00	0.00	0.00	--	0.00	--	--	0.00	0.00	0.00	0.00	0.00	--	0.00	--
			0	0	0.00	0	0	--	0.00	0.00	0.00	0.00	0.00	--	0.00	--	--	0.00	0.00	0.00	0.00	0.00	--	0.00	--
			0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Dual Fuel Turbine		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	MISC.		BPD	SCF/HR	COUNT																				
	STORAGE TANK	ST-1			1	24	0	--	--	--	--	--	#DIV/0!	--	--	--	--	--	--	--	--	4.30	--	--	--
	COMBUSTION FLARE - no smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	COMBUSTION FLARE - no smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	FUGITIVES	FE-1			2	24	0	--	--	--	--	--	0.00	--	--	--	--	--	--	--	--	0.00	--	--	--
	COLD VENT	CV-1/CV-2			5774	24	0																		
	GLYCOL DEHYDRATOR	GLY1			1	24	0	--	--	--	--	--	#DIV/0!	--	--	--	--	--	--	--	--	19.24	--	--	--
	WASTE INCINERATOR		0			0	0	--	0.00	0.00	0.00	0.00	--	--	0.00	--	--	0.00	0.00	0.00	0.00	--	--	0.00	--
DRILLING WELL TEST	Liquid Flaring		5000			24	2	87.50	20.13	13.56	1242.50	175.00	2.98	0.01	43.75	7.00	2.10	0.48	0.33	29.82	4.20	0.07	0.00	1.05	0.17
	COMBUSTION FLARE - no smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	COMBUSTION FLARE - light smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	COMBUSTION FLARE - medium smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	COMBUSTION FLARE - heavy smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
ALASKA-SPECIFIC SOURCES	VESSELS		kW			HR/D	D/YR																		
	VESSELS - Ice Management Diesel		0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
2027	Facility Total Emissions							164.05	80.41	73.10	1,244.09	1,668.71	#DIV/0!	0.01	305.55	7.29	54.46	32.08	30.97	30.58	1,258.81	59.68	0.00	197.83	0.53
EXEMPTION CALCULATION	DISTANCE FROM LAND IN MILES																2,730.60			2,730.60	2,730.60	2,730.60		64,173.37	
	82.0																								
DRILLING	VESSELS- Crew Diesel		2265	116.52519	2796.60	18	150	1.60	0.96	0.94	0.02	38.28	1.10	0.00	6.00	0.01	2.16	1.30	1.26	0.03	51.68	1.49	0.00	8.11	0.02
	VESSELS - Supply Diesel		2265	116.52519	2796.60	18	150	1.60	0.96	0.94	0.02	38.28	1.10	0.00	6.00	0.01	2.16	1.30	1.26	0.03	51.68	1.49	0.00	8.11	0.02
	VESSELS - Tugs Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PIPELINE INSTALLATION	VESSELS - Support Diesel, Laying		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Support Diesel, Burying		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Crew Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Supply Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FACILITY INSTALLATION	VESSELS - Material Tug Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Crew Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Supply Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRODUCTION	VESSELS - Support Diesel (Crew)		2265	116.52519	2796.60	0	0	1.60	0.96	0.94	0.02	38.28	1.10	0.00	6.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Support Diesel (Supply)		2265	116.52519	2796.60	0	0	1.60	0.96	0.94	0.02	38.28	1.10	0.00	6.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ALASKA-SPECIFIC SOURCES	On-Ice Equipment			GAL/HR	GAL/D																				
	Man Camp - Operation (maximum people per day)		PEOPLE/DAY																						
	VESSELS		kW			HR/D	D/YR																		
	On-Ice – Loader			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Other Construction Equipment			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Other Survey Equipment			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Tractor			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Truck (for gravel island)			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Truck (for surveys)			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	Man Camp - Operation		0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	VESSELS - Hovercraft Diesel		0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2027	Non-Facility Total Emissions							6.39	3.86	3.74	0.09	153.14	4.40	0.00	24.02	0.04	4.31	2.60	2.52	0.06	103.37	2.97	0.00	16.21	0.03

AQR Spreadsheet

AIR EMISSIONS CALCULATIONS - 3rd YEAR

COMPANY	AREA		BLOCK	LEASE	FACILITY	WELL					CONTACT	PHONE	REMARKS
Talos ON Exploration LLC	Ewing Bank		1010	OCS-G34879	N/A	#2					Erin Harold	713-335-6952	Drilling & completion of 1 well (#2) using drillship or DP Semi submersible and setting of 1 lease-term pipeline. This includes potential rig emissions each year to allow for scheduling flexibility.

OPERATIONS	EQUIPMENT	EQUIPMENT ID	RATING	MAX. FUEL	ACT. FUEL	RUN TIME		MAXIMUM POUNDS PER HOUR										ESTIMATED TONS								
	Diesel Engines		HP	GAL/HR	GAL/D																					
	Nat. Gas Engines		HP	SCF/HR	SCF/D																					
	Burners		MMBTU/HR	SCF/HR	SCF/D	HR/D	D/YR	TSP	PM10	PM2.5	SOx	NOx	VOC	Pb	CO	NH3	TSP	PM10	PM2.5	SOx	NOx	VOC	Pb	CO	NH3
DRILLING	VESSELS- Drilling - Propulsion Engine - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS- Drilling - Propulsion Engine - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS- Drilling - Propulsion Engine - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS- Drilling - Propulsion Engine - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vessels - Diesel Boiler		0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vessels – Drilling Main Engines		37012	1904.1194	45698.86	24	60	26.11	15.75	15.28	0.38	625.60	17.99	0.00	98.12	0.18	18.80	11.34	11.00	0.27	450.43	12.95	0.00	70.65	0.13
PIPELINE INSTALLATION	VESSELS - Pipeline Laying Vessel - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Pipeline Burying - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FACILITY INSTALLATION	VESSELS - Heavy Lift Vessel/Derrick Barge Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRODUCTION	RECIP.<600hp Diesel - DGE #8	DGE-8	915	47.07309	1129.75	24	0	2.02	2.02	2.02	0.06	28.44	2.10	--	6.11	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - DGE #9	DGE-9	913	46.970198	1127.28	24	0	2.01	2.01	2.01	0.06	28.38	2.09	--	6.10	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - N Crane	DGE-1	460	23.66516	567.96	24	0	1.01	1.01	1.01	0.03	14.30	1.05	--	3.07	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - S Crane	DGE-3	220	11.31812	271.63	24	0	0.49	0.49	0.49	0.01	6.84	0.50	--	1.47	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - PBA-6090	DGE-2	150	7.7169	185.21	24	0	0.33	0.33	0.33	0.01	4.66	0.34	--	1.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - Rental GEN	RENTALGEN	680	34.98328	839.60	24	0	1.50	1.50	1.50	0.04	21.14	1.56	--	4.54	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel Rental Generator		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Turbine - #1	NGT-1	4500	231.507	5556.17	24	0	9.92	9.92	9.92	0.28	139.88	10.32	--	30.06	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Turbine - #2	NGT-2	4500	231.507	5556.17	24	0	9.92	9.92	9.92	0.28	139.88	10.32	--	30.06	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Engine - #1	NGE-1	414	21.298644	511.17	24	0	0.91	0.91	0.91	0.03	12.87	0.95	--	2.77	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Engine - #2	NGE-2	1680	86.42928	2074.30	24	0	3.70	3.70	3.70	0.10	52.22	3.85	--	11.22	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Engine - #3	NGE-3	1680	86.42928	2074.30	24	0	3.70	3.70	3.70	0.10	52.22	3.85	--	11.22	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Heater/Boiler/Burner	HTR	7.5	0.385845	9.26	24	0	0.02	0.02	0.02	0.00	0.23	0.02	--	0.05	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.>600hp Diesel Generator		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
			0	0	0.00	0	0	--	0.00	0.00	0.00	0.00	0.00	--	0.00	--	--	0.00	0.00	0.00	0.00	0.00	--	0.00	--
			0	0	0.00	0	0	--	0.00	0.00	0.00	0.00	0.00	--	0.00	--	--	0.00	0.00	0.00	0.00	0.00	--	0.00	--
			0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Dual Fuel Turbine		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	MISC.		BPD	SCF/HR	COUNT																				
	STORAGE TANK	ST-1			1	24	0	--	--	--	--	--	#DIV/0!	--	--	--	--	--	--	--	--	4.30	--	--	--
					0																				
	COMBUSTION FLARE - no smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	COMBUSTION FLARE - no smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
				0																					
	FUGITIVES	FE-1			2	24	0	--	--	--	--	--	0.00	--	--	--	--	--	--	--	--	0.00	--	--	--
	COLD VENT	CV-1/CV-2			5774	24	0																		
	GLYCOL DEHYDRATOR	GLY.1			1	24	0	--	--	--	--	--	#DIV/0!	--	--	--	--	--	--	--	--	19.24	--	--	--
	WASTE INCINERATOR		0			0	0	--	0.00	0.00	0.00	0.00	--	--	0.00	--	--	0.00	0.00	0.00	0.00			0.00	
DRILLING WELL TEST	Liquid Flaring		0			0	0	2026.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	COMBUSTION FLARE - no smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	COMBUSTION FLARE - light smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	COMBUSTION FLARE - medium smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	COMBUSTION FLARE - heavy smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
ALASKA-SPECIFIC SOURCES	VESSELS		kW			HR/D	D/YR																		
	VESSELS - Ice Management Diesel		0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
2028	Facility Total Emissions							2,087.65	51.29	50.82	1.37	1,126.68	#DIV/0!	0.00	205.80	0.18	18.80	11.34	11.00	0.27	450.43	36.49	0.00	70.65	0.13
EXEMPTION CALCULATION	DISTANCE FROM LAND IN MILES																2,730.60			2,730.60	2,730.60	2,730.60		64,173.37	
	82.0																								
DRILLING	VESSELS- Crew Diesel		2265	116.52519	2796.60	18	60	1.60	0.96	0.94	0.02	38.28	1.10	0.00	6.00	0.01	0.86	0.52	0.50	0.01	20.67	0.59	0.00	3.24	0.01
	VESSELS - Supply Diesel		2265	116.52519	2796.60	18	60	1.60	0.96	0.94	0.02	38.28	1.10	0.00	6.00	0.01	0.86	0.52	0.50	0.01	20.67	0.59	0.00	3.24	0.01
	VESSELS - Tugs Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PIPELINE INSTALLATION	VESSELS - Support Diesel, Laying		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Support Diesel, Burying		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Crew Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Supply Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FACILITY INSTALLATION	VESSELS - Material Tug Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Crew Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Supply Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRODUCTION	VESSELS - Support Diesel (Crew)		2265	116.52519	2796.60	6	0	1.60	0.96	0.94	0.02	38.28	1.10	0.00	6.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Support Diesel (Supply)		2265	116.52519	2796.60	10	0	1.60	0.96	0.94	0.02	38.28	1.10	0.00	6.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ALASKA-SPECIFIC SOURCES	On-Ice Equipment			GAL/HR	GAL/D																				
	Man Camp - Operation (maximum people per day)		PEOPLE/DAY																						
	VESSELS		kW			HR/D	D/YR																		
	On-Ice – Loader			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Other Construction Equipment			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Other Survey Equipment			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Tractor			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Truck (for gravel island)			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Truck (for surveys)			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	Man Camp - Operation		0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	
	VESSELS - Hovercraft Diesel		0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2028	Non-Facility Total Emissions							6.39	3.86	3.74	0.09	153.14	4.40	0.00	24.02	0.04	1.73	1.04	1.01	0.03	41.35	1.19	0.00	6.49	0.01

AQR Spreadsheet

AIR EMISSIONS CALCULATIONS - 4th YEAR

COMPANY	AREA		BLOCK	LEASE	FACILITY	WELL					CONTACT	PHONE	REMARKS
Talos ON Exploration LLC	Ewing Bank		1010	OCS-G34879	N/A	#2					Erin Harold	713-335-6952	Drilling & completion of 1 well (#2) using drillship or DP Semi submersible and setting of 1 lease-term pipeline. This includes potential rig emissions each year to allow for scheduling flexibility.

OPERATIONS	EQUIPMENT	EQUIPMENT ID	RATING	MAX. FUEL	ACT. FUEL	RUN TIME		MAXIMUM POUNDS PER HOUR										ESTIMATED TONS								
	Diesel Engines		HP	GAL/HR	GAL/D																					
	Nat. Gas Engines		HP	SCF/HR	SCF/D																					
	Burners		MMBTU/HR	SCF/HR	SCF/D	HR/D	D/YR	TSP	PM10	PM2.5	SOx	NOx	VOC	Pb	CO	NH3	TSP	PM10	PM2.5	SOx	NOx	VOC	Pb	CO	NH3
DRILLING	VESSELS- Drilling - Propulsion Engine - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS- Drilling - Propulsion Engine - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS- Drilling - Propulsion Engine - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS- Drilling - Propulsion Engine - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vessels - Diesel Boiler		0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vessels – Drilling Main Engines		37012	1904.1194	45698.86	24	60	26.11	15.75	15.28	0.38	625.60	17.99	0.00	98.12	0.18	18.80	11.34	11.00	0.27	450.43	12.95	0.00	70.65	0.13
PIPELINE INSTALLATION	VESSELS - Pipeline Laying Vessel - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Pipeline Burying - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FACILITY INSTALLATION	VESSELS - Heavy Lift Vessel/Derrick Barge Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRODUCTION	RECIP.<600hp Diesel - DGE #8	DGE-8	915	47.07309	1129.75	24	0	2.02	2.02	2.02	0.06	28.44	2.10	--	6.11	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - DGE #9	DGE-9	913	46.970198	1127.28	24	0	2.01	2.01	2.01	0.06	28.38	2.09	--	6.10	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - N Crane	DGE-1	460	23.66516	567.96	24	0	1.01	1.01	1.01	0.03	14.30	1.05	--	3.07	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - S Crane	DGE-3	220	11.31812	271.63	24	0	0.49	0.49	0.49	0.01	6.84	0.50	--	1.47	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - PBA-6090	DGE-2	150	7.7169	185.21	24	0	0.33	0.33	0.33	0.01	4.66	0.34	--	1.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - Rental GEN	RENTALGEN	680	34.98328	839.60	24	0	1.50	1.50	1.50	0.04	21.14	1.56	--	4.54	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel Rental Generator		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Turbine - #1	NGT-1	4500	231.507	5556.17	24	0	9.92	9.92	9.92	0.28	139.88	10.32	--	30.06	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Turbine - #2	NGT-2	4500	231.507	5556.17	24	0	9.92	9.92	9.92	0.28	139.88	10.32	--	30.06	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Engine - #1	NGE-1	414	21.298644	511.17	24	0	0.91	0.91	0.91	0.03	12.87	0.95	--	2.77	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Engine - #2	NGE-2	1680	86.42928	2074.30	24	0	3.70	3.70	3.70	0.10	52.22	3.85	--	11.22	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Engine - #3	NGE-3	1680	86.42928	2074.30	24	0	3.70	3.70	3.70	0.10	52.22	3.85	--	11.22	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Heater/Boiler/Burner	HTR	7.5	0.385845	9.26	24	0	0.02	0.02	0.02	0.00	0.23	0.02	--	0.05	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.>600hp Diesel Generator		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
			0	0	0.00	0	0	--	0.00	0.00	0.00	0.00	0.00	--	0.00	--	--	0.00	0.00	0.00	0.00	0.00	--	0.00	--
			0	0	0.00	0	0	--	0.00	0.00	0.00	0.00	0.00	--	0.00	--	--	0.00	0.00	0.00	0.00	0.00	--	0.00	--
			0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Dual Fuel Turbine		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	MISC.		BPD	SCF/HR	COUNT																				
	STORAGE TANK	ST-1			1	24	0	--	--	--	--	--	#DIV/0!	--	--	--	--	--	--	--	--	4.30	--	--	--
					0																				
	COMBUSTION FLARE - no smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	COMBUSTION FLARE - no smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
				0																					
	FUGITIVES	FE-1			2	24	0	--	--	--	--	--	0.00	--	--	--	--	--	--	--	--	0.00	--	--	--
		CV-1/CV-2			5774	24	0																		
	GLYCOL DEHYDRATOR	GLY.1			1	24	0	--	--	--	--	--	#DIV/0!	--	--	--	--	--	--	--	--	19.24	--	--	--
	WASTE INCINERATOR		0			0	0	--	0.00	0.00	0.00	0.00	--	--	0.00	0.00	--	0.00	0.00	0.00	0.00			0.00	
DRILLING WELL TEST	Liquid Flaring		0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	COMBUSTION FLARE - no smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	COMBUSTION FLARE - light smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	COMBUSTION FLARE - medium smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	COMBUSTION FLARE - heavy smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
ALASKA-SPECIFIC SOURCES	VESSELS		kW			HR/D	D/YR																		
	VESSELS - Ice Management Diesel		0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
2029	Facility Total Emissions							61.65	51.29	50.82	1.37	1,126.68	#DIV/0!	0.00	205.80	0.18	18.80	11.34	11.00	0.27	450.43	36.49	0.00	70.65	0.13
EXEMPTION CALCULATION	DISTANCE FROM LAND IN MILES																2,730.60			2,730.60	2,730.60	2,730.60		64,173.37	
	82.0																								
DRILLING	VESSELS- Crew Diesel		2265	116.52519	2796.60	18	60	1.60	0.96	0.94	0.02	38.28	1.10	0.00	6.00	0.01	0.86	0.52	0.50	0.01	20.67	0.59	0.00	3.24	0.01
	VESSELS - Supply Diesel		2265	116.52519	2796.60	18	60	1.60	0.96	0.94	0.02	38.28	1.10	0.00	6.00	0.01	0.86	0.52	0.50	0.01	20.67	0.59	0.00	3.24	0.01
	VESSELS - Tugs Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PIPELINE INSTALLATION	VESSELS - Support Diesel, Laying		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Support Diesel, Burying		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Crew Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Supply Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FACILITY INSTALLATION	VESSELS - Material Tug Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Crew Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Supply Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRODUCTION	VESSELS - Support Diesel (Crew)		2265	116.52519	2796.60	6	0	1.60	0.96	0.94	0.02	38.28	1.10	0.00	6.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Support Diesel (Supply)		2265	116.52519	2796.60	10	0	1.60	0.96	0.94	0.02	38.28	1.10	0.00	6.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ALASKA-SPECIFIC SOURCES	On-Ice Equipment			GAL/HR	GAL/D																				
	Man Camp - Operation (maximum people per day)		PEOPLE/DAY																						
	VESSELS		kW			HR/D	D/YR																		
	On-Ice – Loader			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Other Construction Equipment			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Other Survey Equipment			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Tractor			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Truck (for gravel island)			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Truck (for surveys)			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	Man Camp - Operation		0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	
	VESSELS - Hovercraft Diesel		0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2029	Non-Facility Total Emissions							6.39	3.86	3.74	0.09	153.14	4.40	0.00	24.02	0.04	1.73	1.04	1.01	0.03	41.35	1.19	0.00	6.49	0.01

AQR Spreadsheet

AIR EMISSIONS CALCULATIONS - 5th YEAR

COMPANY	AREA		BLOCK	LEASE	FACILITY	WELL					CONTACT	PHONE	REMARKS
Talos ON Exploration LLC	Ewing Bank		1010	OCS-G34879	N/A	#2					Erin Harold	713-335-6952	Drilling & completion of 1 well (#2) using drillship or DP Semi submersible and setting of 1 lease-term pipeline. This includes potential rig emissions each year to allow for scheduling flexibility.

OPERATIONS	EQUIPMENT	EQUIPMENT ID	RATING	MAX. FUEL	ACT. FUEL	RUN TIME		MAXIMUM POUNDS PER HOUR										ESTIMATED TONS								
	Diesel Engines		HP	GAL/HR	GAL/D																					
	Nat. Gas Engines		HP	SCF/HR	SCF/D																					
	Burners		MMBTU/HR	SCF/HR	SCF/D	HR/D	D/YR	TSP	PM10	PM2.5	SOx	NOx	VOC	Pb	CO	NH3	TSP	PM10	PM2.5	SOx	NOx	VOC	Pb	CO	NH3
DRILLING	VESSELS- Drilling - Propulsion Engine - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS- Drilling - Propulsion Engine - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS- Drilling - Propulsion Engine - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS- Drilling - Propulsion Engine - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vessels - Diesel Boiler		0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vessels – Drilling Main Engines		37012	1904.1194	45698.86	24	60	26.11	15.75	15.28	0.38	625.60	17.99	0.00	98.12	0.18	18.80	11.34	11.00	0.27	450.43	12.95	0.00	70.65	0.13
PIPELINE INSTALLATION	VESSELS - Pipeline Laying Vessel - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Pipeline Burying - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FACILITY INSTALLATION	VESSELS - Heavy Lift Vessel/Derrick Barge Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRODUCTION	RECIP.<600hp Diesel - DGE #8	DGE-8	915	47.07309	1129.75	24	0	2.02	2.02	2.02	0.06	28.44	2.10	--	6.11	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - DGE #9	DGE-9	913	46.970198	1127.28	24	0	2.01	2.01	2.01	0.06	28.38	2.09	--	6.10	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - N Crane	DGE-1	460	23.66516	567.96	24	0	1.01	1.01	1.01	0.03	14.30	1.05	--	3.07	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - S Crane	DGE-3	220	11.31812	271.63	24	0	0.49	0.49	0.49	0.01	6.84	0.50	--	1.47	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - PBA-6090	DGE-2	150	7.7169	185.21	24	0	0.33	0.33	0.33	0.01	4.66	0.34	--	1.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - Rental GEN	RENTALGEN	680	34.98328	839.60	24	0	1.50	1.50	1.50	0.04	21.14	1.56	--	4.54	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel Rental Generator		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Turbine - #1	NGT-1	4500	231.507	5556.17	24	0	9.92	9.92	9.92	0.28	139.88	10.32	--	30.06	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Turbine - #2	NGT-2	4500	231.507	5556.17	24	0	9.92	9.92	9.92	0.28	139.88	10.32	--	30.06	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Engine - #1	NGE-1	414	21.298644	511.17	24	0	0.91	0.91	0.91	0.03	12.87	0.95	--	2.77	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Engine - #2	NGE-2	1680	86.42928	2074.30	24	0	3.70	3.70	3.70	0.10	52.22	3.85	--	11.22	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Engine - #3	NGE-3	1680	86.42928	2074.30	24	0	3.70	3.70	3.70	0.10	52.22	3.85	--	11.22	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Heater/Boiler/Burner	HTR	7.5	0.385845	9.26	24	0	0.02	0.02	0.02	0.00	0.23	0.02	--	0.05	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.>600hp Diesel Generator		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
			0	0	0.00	0	0	--	0.00	0.00	0.00	0.00	0.00	--	0.00	--	--	0.00	0.00	0.00	0.00	0.00	--	0.00	--
			0	0	0.00	0	0	--	0.00	0.00	0.00	0.00	0.00	--	0.00	--	--	0.00	0.00	0.00	0.00	0.00	--	0.00	--
			0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Dual Fuel Turbine		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	MISC.		BPD	SCF/HR	COUNT																				
	STORAGE TANK	ST-1			1	24	0	--	--	--	--	--	#DIV/0!	--	--	--	--	--	--	--	--	4.30	--	--	--
					0																				
	COMBUSTION FLARE - no smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	COMBUSTION FLARE - no smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
				0																					
	FUGITIVES	FE-1			2	24	0	--	--	--	--	--	0.00	--	--	--	--	--	--	--	--	0.00	--	--	--
	COLD VENT	CV-1/CV-2			5774	24	0																		
	GLYCOL DEHYDRATOR	GLY.1			1	24	0	--	--	--	--	--	#DIV/0!	--	--	--	--	--	--	--	--	19.24	--	--	--
	WASTE INCINERATOR		0			0	0	--	0.00	0.00	0.00	0.00	--	--	0.00	0.00	--	0.00	0.00	0.00	0.00			0.00	
DRILLING	Liquid Flaring		0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WELL TEST	COMBUSTION FLARE - no smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	COMBUSTION FLARE - light smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	COMBUSTION FLARE - medium smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	COMBUSTION FLARE - heavy smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
ALASKA-SPECIFIC SOURCES	VESSELS		kW			HR/D	D/YR																		
	VESSELS - Ice Management Diesel		0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
2030	Facility Total Emissions							61.65	51.29	50.82	1.37	1,126.68	#DIV/0!	0.00	205.80	0.18	18.80	11.34	11.00	0.27	450.43	36.49	0.00	70.65	0.13
EXEMPTION CALCULATION	DISTANCE FROM LAND IN MILES																2,730.60			2,730.60	2,730.60	2,730.60		64,173.37	
	82.0																								
DRILLING	VESSELS- Crew Diesel		2265	116.52519	2796.60	18	60	1.60	0.96	0.94	0.02	38.28	1.10	0.00	6.00	0.01	0.86	0.52	0.50	0.01	20.67	0.59	0.00	3.24	0.01
	VESSELS - Supply Diesel		2265	116.52519	2796.60	18	60	1.60	0.96	0.94	0.02	38.28	1.10	0.00	6.00	0.01	0.86	0.52	0.50	0.01	20.67	0.59	0.00	3.24	0.01
	VESSELS - Tugs Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PIPELINE INSTALLATION	VESSELS - Support Diesel, Laying		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Support Diesel, Burying		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Crew Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Supply Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FACILITY INSTALLATION	VESSELS - Material Tug Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Crew Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Supply Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRODUCTION	VESSELS - Support Diesel (Crew)		2265	116.52519	2796.60	6	0	1.60	0.96	0.94	0.02	38.28	1.10	0.00	6.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Support Diesel (Supply)		2265	116.52519	2796.60	10	0	1.60	0.96	0.94	0.02	38.28	1.10	0.00	6.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ALASKA-SPECIFIC SOURCES	On-Ice Equipment			GAL/HR	GAL/D																				
	Man Camp - Operation (maximum people per day)		PEOPLE/DAY																						
	VESSELS		kW			HR/D	D/YR																		
	On-Ice – Loader			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Other Construction Equipment			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Other Survey Equipment			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Tractor			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Truck (for gravel island)			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Truck (for surveys)			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	Man Camp - Operation		0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	
	VESSELS - Hovercraft Diesel		0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2030	Non-Facility Total Emissions							6.39	3.86	3.74	0.09	153.14	4.40	0.00	24.02	0.04	1.73	1.04	1.01	0.03	41.35	1.19	0.00	6.49	0.01

AQR Spreadsheet

AIR EMISSIONS CALCULATIONS - 6th YEAR

COMPANY	AREA		BLOCK	LEASE	FACILITY	WELL					CONTACT	PHONE	REMARKS
Talos ON Exploration LLC	Ewing Bank		1010	OCS-G34879	N/A	#2					Erin Harold	713-335-6952	Drilling & completion of 1 well (#2) using drillship or DP Semi submersible and setting of 1 lease-term pipeline. This includes potential rig emissions each year to allow for scheduling flexibility.

OPERATIONS	EQUIPMENT	EQUIPMENT ID	RATING	MAX. FUEL	ACT. FUEL	RUN TIME		MAXIMUM POUNDS PER HOUR										ESTIMATED TONS								
	Diesel Engines		HP	GAL/HR	GAL/D																					
	Nat. Gas Engines		HP	SCF/HR	SCF/D																					
	Burners		MMBTU/HR	SCF/HR	SCF/D	HR/D	D/YR	TSP	PM10	PM2.5	SOx	NOx	VOC	Pb	CO	NH3	TSP	PM10	PM2.5	SOx	NOx	VOC	Pb	CO	NH3
DRILLING	VESSELS- Drilling - Propulsion Engine - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS- Drilling - Propulsion Engine - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS- Drilling - Propulsion Engine - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS- Drilling - Propulsion Engine - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vessels - Diesel Boiler		0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vessels – Drilling Main Engines		37012	1904.1194	45698.86	24	60	26.11	15.75	15.28	0.38	625.60	17.99	0.00	98.12	0.18	18.80	11.34	11.00	0.27	450.43	12.95	0.00	70.65	0.13
PIPELINE INSTALLATION	VESSELS - Pipeline Laying Vessel - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Pipeline Burying - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FACILITY INSTALLATION	VESSELS - Heavy Lift Vessel/Derrick Barge Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRODUCTION	RECIP.<600hp Diesel - DGE #8	DGE-8	915	47.07309	1129.75	24	0	2.02	2.02	2.02	0.06	28.44	2.10	--	6.11	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - DGE #9	DGE-9	913	46.970198	1127.28	24	0	2.01	2.01	2.01	0.06	28.38	2.09	--	6.10	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - N Crane	DGE-1	460	23.66516	567.96	24	0	1.01	1.01	1.01	0.03	14.30	1.05	--	3.07	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - S Crane	DGE-3	220	11.31812	271.63	24	0	0.49	0.49	0.49	0.01	6.84	0.50	--	1.47	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - PBA-6090	DGE-2	150	7.7169	185.21	24	0	0.33	0.33	0.33	0.01	4.66	0.34	--	1.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - Rental GEN	RENTALGEN	680	34.98328	839.60	24	0	1.50	1.50	1.50	0.04	21.14	1.56	--	4.54	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel Rental Generator		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Turbine - #1	NGT-1	4500	231.507	5556.17	24	0	9.92	9.92	9.92	0.28	139.88	10.32	--	30.06	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Turbine - #2	NGT-2	4500	231.507	5556.17	24	0	9.92	9.92	9.92	0.28	139.88	10.32	--	30.06	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Engine - #1	NGE-1	414	21.298644	511.17	24	0	0.91	0.91	0.91	0.03	12.87	0.95	--	2.77	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Engine - #2	NGE-2	1680	86.42928	2074.30	24	0	3.70	3.70	3.70	0.10	52.22	3.85	--	11.22	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Engine - #3	NGE-3	1680	86.42928	2074.30	24	0	3.70	3.70	3.70	0.10	52.22	3.85	--	11.22	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Heater/Boiler/Burner	HTR	7.5	0.385845	9.26	24	0	0.02	0.02	0.02	0.00	0.23	0.02	--	0.05	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.>600hp Diesel Generator		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
			0	0	0.00	0	0	--	0.00	0.00	0.00	0.00	0.00	--	0.00	--	--	0.00	0.00	0.00	0.00	0.00	--	0.00	--
			0	0	0.00	0	0	--	0.00	0.00	0.00	0.00	0.00	--	0.00	--	--	0.00	0.00	0.00	0.00	0.00	--	0.00	--
			0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Dual Fuel Turbine		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	MISC.		BPD	SCF/HR	COUNT																				
	STORAGE TANK	ST-1			1	24	0	--	--	--	--	--	#DIV/0!	--	--	--	--	--	--	--	--	4.30	--	--	--
					0																				
	COMBUSTION FLARE - no smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	COMBUSTION FLARE - no smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
				0																					
	FUGITIVES	FE-1			2	24	0	--	--	--	--	--	0.00	--	--	--	--	--	--	--	--	0.00	--	--	--
	COLD VENT	CV-1/CV-2			5774	24	0																		
	GLYCOL DEHYDRATOR	GLY.1			1	24	0	--	--	--	--	--	#DIV/0!	--	--	--	--	--	--	--	--	19.24	--	--	--
	WASTE INCINERATOR		0			0	0	--	0.00	0.00	0.00	0.00	--	--	0.00	0.00	--	0.00	0.00	0.00	0.00			0.00	
DRILLING	Liquid Flaring		0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WELL TEST	COMBUSTION FLARE - no smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	COMBUSTION FLARE - light smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	COMBUSTION FLARE - medium smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	COMBUSTION FLARE - heavy smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
ALASKA-SPECIFIC SOURCES	VESSELS		kW			HR/D	D/YR																		
	VESSELS - Ice Management Diesel		0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
2031	Facility Total Emissions							61.65	51.29	50.82	1.37	1,126.68	#DIV/0!	0.00	205.80	0.18	18.80	11.34	11.00	0.27	450.43	36.49	0.00	70.65	0.13
EXEMPTION CALCULATION	DISTANCE FROM LAND IN MILES																2,730.60			2,730.60	2,730.60	2,730.60		64,173.37	
	82.0																								
DRILLING	VESSELS- Crew Diesel		2265	116.52519	2796.60	18	60	1.60	0.96	0.94	0.02	38.28	1.10	0.00	6.00	0.01	0.86	0.52	0.50	0.01	20.67	0.59	0.00	3.24	0.01
	VESSELS - Supply Diesel		2265	116.52519	2796.60	18	60	1.60	0.96	0.94	0.02	38.28	1.10	0.00	6.00	0.01	0.86	0.52	0.50	0.01	20.67	0.59	0.00	3.24	0.01
	VESSELS - Tugs Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PIPELINE INSTALLATION	VESSELS - Support Diesel, Laying		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Support Diesel, Burying		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Crew Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Supply Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FACILITY INSTALLATION	VESSELS - Material Tug Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Crew Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Supply Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRODUCTION	VESSELS - Support Diesel (Crew)		2265	116.52519	2796.60	6	0	1.60	0.96	0.94	0.02	38.28	1.10	0.00	6.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Support Diesel (Supply)		2265	116.52519	2796.60	10	0	1.60	0.96	0.94	0.02	38.28	1.10	0.00	6.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ALASKA-SPECIFIC SOURCES	On-Ice Equipment			GAL/HR	GAL/D																				
	Man Camp - Operation (maximum people per day)		PEOPLE/DAY																						
	VESSELS		kW			HR/D	D/YR																		
	On-Ice – Loader			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Other Construction Equipment			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Other Survey Equipment			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Tractor			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Truck (for gravel island)			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Truck (for surveys)			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	Man Camp - Operation		0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	
	VESSELS - Hovercraft Diesel		0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2031	Non-Facility Total Emissions							6.39	3.86	3.74	0.09	153.14	4.40	0.00	24.02	0.04	1.73	1.04	1.01	0.03	41.35	1.19	0.00	6.49	0.01

AQR Spreadsheet

AIR EMISSIONS CALCULATIONS - 7th YEAR

COMPANY	AREA		BLOCK	LEASE	FACILITY	WELL					CONTACT	PHONE	REMARKS
Talos ON Exploration LLC	Ewing Bank		1010	OCS-G34879	N/A	#2					Erin Harold	713-335-6952	Drilling & completion of 1 well (#2) using drillship or DP Semi submersible and setting of 1 lease-term pipeline. This includes potential rig emissions each year to allow for scheduling flexibility.

OPERATIONS	EQUIPMENT	EQUIPMENT ID	RATING	MAX. FUEL	ACT. FUEL	RUN TIME		MAXIMUM POUNDS PER HOUR										ESTIMATED TONS								
	Diesel Engines		HP	GAL/HR	GAL/D																					
	Nat. Gas Engines		HP	SCF/HR	SCF/D																					
	Burners		MMBTU/HR	SCF/HR	SCF/D	HR/D	D/YR	TSP	PM10	PM2.5	SOx	NOx	VOC	Pb	CO	NH3	TSP	PM10	PM2.5	SOx	NOx	VOC	Pb	CO	NH3
DRILLING	VESSELS- Drilling - Propulsion Engine - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS- Drilling - Propulsion Engine - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS- Drilling - Propulsion Engine - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS- Drilling - Propulsion Engine - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vessels - Diesel Boiler		0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vessels – Drilling Main Engines		37012	1904.1194	45698.86	24	60	26.11	15.75	15.28	0.38	625.60	17.99	0.00	98.12	0.18	18.80	11.34	11.00	0.27	450.43	12.95	0.00	70.65	0.13
PIPELINE INSTALLATION	VESSELS - Pipeline Laying Vessel - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Pipeline Burying - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FACILITY INSTALLATION	VESSELS - Heavy Lift Vessel/Derrick Barge Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRODUCTION	RECIP.<600hp Diesel - DGE #8	DGE-8	915	47.07309	1129.75	24	0	2.02	2.02	2.02	0.06	28.44	2.10	--	6.11	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - DGE #9	DGE-9	913	46.970198	1127.28	24	0	2.01	2.01	2.01	0.06	28.38	2.09	--	6.10	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - N Crane	DGE-1	460	23.66516	567.96	24	0	1.01	1.01	1.01	0.03	14.30	1.05	--	3.07	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - S Crane	DGE-3	220	11.31812	271.63	24	0	0.49	0.49	0.49	0.01	6.84	0.50	--	1.47	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - PBA-6090	DGE-2	150	7.7169	185.21	24	0	0.33	0.33	0.33	0.01	4.66	0.34	--	1.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - Rental GEN	RENTALGEN	680	34.98328	839.60	24	0	1.50	1.50	1.50	0.04	21.14	1.56	--	4.54	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel Rental Generator		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Turbine - #1	NGT-1	4500	231.507	5556.17	24	0	9.92	9.92	9.92	0.28	139.88	10.32	--	30.06	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Turbine - #2	NGT-2	4500	231.507	5556.17	24	0	9.92	9.92	9.92	0.28	139.88	10.32	--	30.06	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Engine - #1	NGE-1	414	21.298644	511.17	24	0	0.91	0.91	0.91	0.03	12.87	0.95	--	2.77	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Engine - #2	NGE-2	1680	86.42928	2074.30	24	0	3.70	3.70	3.70	0.10	52.22	3.85	--	11.22	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Engine - #3	NGE-3	1680	86.42928	2074.30	24	0	3.70	3.70	3.70	0.10	52.22	3.85	--	11.22	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Heater/Boiler/Burner	HTR	7.5	0.385845	9.26	24	0	0.02	0.02	0.02	0.00	0.23	0.02	--	0.05	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.>600hp Diesel Generator		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
			0	0	0.00	0	0	--	0.00	0.00	0.00	0.00	0.00	--	0.00	--	--	0.00	0.00	0.00	0.00	0.00	--	0.00	--
			0	0	0.00	0	0	--	0.00	0.00	0.00	0.00	0.00	--	0.00	--	--	0.00	0.00	0.00	0.00	0.00	--	0.00	--
			0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Dual Fuel Turbine		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	MISC.		BPD	SCF/HR	COUNT																				
	STORAGE TANK	ST-1			1	24	0	--	--	--	--	--	#DIV/0!	--	--	--	--	--	--	--	--	4.30	--	--	--
					0																				
	COMBUSTION FLARE - no smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	COMBUSTION FLARE - no smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
				0																					
	FUGITIVES	FE-1			2	24	0	--	--	--	--	--	0.00	--	--	--	--	--	--	--	--	0.00	--	--	--
	COLD VENT	CV-1/CV-2			5774	24	0																		
	GLYCOL DEHYDRATOR	GLY.1			1	24	0	--	--	--	--	--	#DIV/0!	--	--	--	--	--	--	--	--	19.24	--	--	--
	WASTE INCINERATOR		0			0	0	--	0.00	0.00	0.00	0.00	--	--	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00		0.00	
DRILLING	Liquid Flaring		0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WELL TEST	COMBUSTION FLARE - no smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	COMBUSTION FLARE - light smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	COMBUSTION FLARE - medium smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	COMBUSTION FLARE - heavy smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
ALASKA-SPECIFIC SOURCES	VESSELS		kW			HR/D	D/YR																		
	VESSELS - Ice Management Diesel		0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
2032	Facility Total Emissions							61.65	51.29	50.82	1.37	1,126.68	#DIV/0!	0.00	205.80	0.18	18.80	11.34	11.00	0.27	450.43	36.49	0.00	70.65	0.13
EXEMPTION CALCULATION	DISTANCE FROM LAND IN MILES																2,730.60			2,730.60	2,730.60	2,730.60		64,173.37	
	82.0																								
DRILLING	VESSELS- Crew Diesel		2265	116.52519	2796.60	18	60	1.60	0.96	0.94	0.02	38.28	1.10	0.00	6.00	0.01	0.86	0.52	0.50	0.01	20.67	0.59	0.00	3.24	0.01
	VESSELS - Supply Diesel		2265	116.52519	2796.60	18	60	1.60	0.96	0.94	0.02	38.28	1.10	0.00	6.00	0.01	0.86	0.52	0.50	0.01	20.67	0.59	0.00	3.24	0.01
	VESSELS - Tugs Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PIPELINE INSTALLATION	VESSELS - Support Diesel, Laying		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Support Diesel, Burying		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Crew Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Supply Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FACILITY INSTALLATION	VESSELS - Material Tug Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Crew Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Supply Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRODUCTION	VESSELS - Support Diesel (Crew)		2265	116.52519	2796.60	6	0	1.60	0.96	0.94	0.02	38.28	1.10	0.00	6.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Support Diesel (Supply)		2265	116.52519	2796.60	10	0	1.60	0.96	0.94	0.02	38.28	1.10	0.00	6.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ALASKA-SPECIFIC SOURCES	On-Ice Equipment			GAL/HR	GAL/D																				
	Man Camp - Operation (maximum people per day)		PEOPLE/DAY																						
	VESSELS		kW			HR/D	D/YR																		
	On-Ice – Loader			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Other Construction Equipment			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Other Survey Equipment			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Tractor			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Truck (for gravel island)			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Truck (for surveys)			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	Man Camp - Operation		0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	
	VESSELS - Hovercraft Diesel		0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2032	Non-Facility Total Emissions							6.39	3.86	3.74	0.09	153.14	4.40	0.00	24.02	0.04	1.73	1.04	1.01	0.03	41.35	1.19	0.00	6.49	0.01

AQR Spreadsheet

AIR EMISSIONS CALCULATIONS - 8th YEAR

COMPANY	AREA		BLOCK	LEASE	FACILITY	WELL					CONTACT	PHONE	REMARKS
Talos ON Exploration LLC	Ewing Bank		1010	OCS-G34879	N/A	#2					Erin Harold	713-335-6952	Drilling & completion of 1 well (#2) using drillship or DP Semi submersible and setting of 1 lease-term pipeline. This includes potential rig emissions each year to allow for scheduling flexibility.

OPERATIONS	EQUIPMENT	EQUIPMENT ID	RATING	MAX. FUEL	ACT. FUEL	RUN TIME		MAXIMUM POUNDS PER HOUR										ESTIMATED TONS								
	Diesel Engines		HP	GAL/HR	GAL/D																					
	Nat. Gas Engines		HP	SCF/HR	SCF/D																					
	Burners		MMBTU/HR	SCF/HR	SCF/D	HR/D	D/YR	TSP	PM10	PM2.5	SOx	NOx	VOC	Pb	CO	NH3	TSP	PM10	PM2.5	SOx	NOx	VOC	Pb	CO	NH3
DRILLING	VESSELS- Drilling - Propulsion Engine - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS- Drilling - Propulsion Engine - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS- Drilling - Propulsion Engine - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS- Drilling - Propulsion Engine - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vessels - Diesel Boiler		0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vessels – Drilling Main Engines		37012	1904.1194	45698.86	24	60	26.11	15.75	15.28	0.38	625.60	17.99	0.00	98.12	0.18	18.80	11.34	11.00	0.27	450.43	12.95	0.00	70.65	0.13
PIPELINE INSTALLATION	VESSELS - Pipeline Laying Vessel - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Pipeline Burying - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FACILITY INSTALLATION	VESSELS - Heavy Lift Vessel/Derrick Barge Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRODUCTION	RECIP.<600hp Diesel - DGE #8	DGE-8	915	47.07309	1129.75	24	0	2.02	2.02	2.02	0.06	28.44	2.10	--	6.11	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - DGE #9	DGE-9	913	46.970198	1127.28	24	0	2.01	2.01	2.01	0.06	28.38	2.09	--	6.10	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - N Crane	DGE-1	460	23.66516	567.96	24	0	1.01	1.01	1.01	0.03	14.30	1.05	--	3.07	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - S Crane	DGE-3	220	11.31812	271.63	24	0	0.49	0.49	0.49	0.01	6.84	0.50	--	1.47	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - PBA-6090	DGE-2	150	7.7169	185.21	24	0	0.33	0.33	0.33	0.01	4.66	0.34	--	1.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - Rental GEN	RENTALGEN	680	34.98328	839.60	24	0	1.50	1.50	1.50	0.04	21.14	1.56	--	4.54	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel Rental Generator		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Turbine - #1	NGT-1	4500	231.507	5556.17	24	0	9.92	9.92	9.92	0.28	139.88	10.32	--	30.06	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Turbine - #2	NGT-2	4500	231.507	5556.17	24	0	9.92	9.92	9.92	0.28	139.88	10.32	--	30.06	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Engine - #1	NGE-1	414	21.298644	511.17	24	0	0.91	0.91	0.91	0.03	12.87	0.95	--	2.77	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Engine - #2	NGE-2	1680	86.42928	2074.30	24	0	3.70	3.70	3.70	0.10	52.22	3.85	--	11.22	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Engine - #3	NGE-3	1680	86.42928	2074.30	24	0	3.70	3.70	3.70	0.10	52.22	3.85	--	11.22	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Heater/Boiler/Burner	HTR	7.5	0.385845	9.26	24	0	0.02	0.02	0.02	0.00	0.23	0.02	--	0.05	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.>600hp Diesel Generator		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
			0	0	0.00	0	0	--	0.00	0.00	0.00	0.00	0.00	--	0.00	--	--	0.00	0.00	0.00	0.00	0.00	--	0.00	--
			0	0	0.00	0	0	--	0.00	0.00	0.00	0.00	0.00	--	0.00	--	--	0.00	0.00	0.00	0.00	0.00	--	0.00	--
			0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Dual Fuel Turbine		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	MISC.		BPD	SCF/HR	COUNT																				
	STORAGE TANK	ST-1			1	24	0	--	--	--	--	--	#DIV/0!	--	--	--	--	--	--	--	--	4.30	--	--	--
					0																				
	COMBUSTION FLARE - no smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	COMBUSTION FLARE - no smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
				0																					
	FUGITIVES	FE-1			2	24	0	--	--	--	--	--	0.00	--	--	--	--	--	--	--	--	0.00	--	--	--
	COLD VENT	CV-1/CV-2			5774	24	0																		
	GLYCOL DEHYDRATOR	GLY.1			1	24	0	--	--	--	--	--	#DIV/0!	--	--	--	--	--	--	--	--	19.24	--	--	--
	WASTE INCINERATOR		0			0	0	--	0.00	0.00	0.00	0.00	--	--	0.00	0.00	--	0.00	0.00	0.00	0.00			0.00	
DRILLING	Liquid Flaring		0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WELL TEST	COMBUSTION FLARE - no smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	COMBUSTION FLARE - light smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	COMBUSTION FLARE - medium smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	COMBUSTION FLARE - heavy smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
ALASKA-SPECIFIC SOURCES	VESSELS		kW			HR/D	D/YR																		
	VESSELS - Ice Management Diesel		0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
2033	Facility Total Emissions							61.65	51.29	50.82	1.37	1,126.68	#DIV/0!	0.00	205.80	0.18	18.80	11.34	11.00	0.27	450.43	36.49	0.00	70.65	0.13
EXEMPTION CALCULATION	DISTANCE FROM LAND IN MILES																2,730.60			2,730.60	2,730.60	2,730.60		64,173.37	
	82.0																								
DRILLING	VESSELS- Crew Diesel		2265	116.52519	2796.60	18	60	1.60	0.96	0.94	0.02	38.28	1.10	0.00	6.00	0.01	0.86	0.52	0.50	0.01	20.67	0.59	0.00	3.24	0.01
	VESSELS - Supply Diesel		2265	116.52519	2796.60	18	60	1.60	0.96	0.94	0.02	38.28	1.10	0.00	6.00	0.01	0.86	0.52	0.50	0.01	20.67	0.59	0.00	3.24	0.01
	VESSELS - Tugs Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PIPELINE INSTALLATION	VESSELS - Support Diesel, Laying		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Support Diesel, Burying		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Crew Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Supply Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FACILITY INSTALLATION	VESSELS - Material Tug Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Crew Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Supply Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRODUCTION	VESSELS - Support Diesel (Crew)		2265	116.52519	2796.60	6	0	1.60	0.96	0.94	0.02	38.28	1.10	0.00	6.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Support Diesel (Supply)		2265	116.52519	2796.60	10	0	1.60	0.96	0.94	0.02	38.28	1.10	0.00	6.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ALASKA-SPECIFIC SOURCES	On-Ice Equipment			GAL/HR	GAL/D																				
	Man Camp - Operation (maximum people per day)		PEOPLE/DAY																						
	VESSELS		kW			HR/D	D/YR																		
	On-Ice – Loader			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Other Construction Equipment			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Other Survey Equipment			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Tractor			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Truck (for gravel island)			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Truck (for surveys)			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	Man Camp - Operation		0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	
	VESSELS - Hovercraft Diesel		0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2033	Non-Facility Total Emissions							6.39	3.86	3.74	0.09	153.14	4.40	0.00	24.02	0.04	1.73	1.04	1.01	0.03	41.35	1.19	0.00	6.49	0.01

AQR Spreadsheet

AIR EMISSIONS CALCULATIONS - 9th YEAR

COMPANY	AREA		BLOCK	LEASE	FACILITY	WELL					CONTACT	PHONE	REMARKS
Talos ON Exploration LLC	Ewing Bank		1010	OCS-G34879	N/A	#2					Erin Harold	713-335-6952	Drilling & completion of 1 well (#2) using drillship or DP Semi submersible and setting of 1 lease-term pipeline. This includes potential rig emissions each year to allow for scheduling flexibility.

OPERATIONS	EQUIPMENT	EQUIPMENT ID	RATING	MAX. FUEL	ACT. FUEL	RUN TIME		MAXIMUM POUNDS PER HOUR										ESTIMATED TONS								
	Diesel Engines		HP	GAL/HR	GAL/D																					
	Nat. Gas Engines		HP	SCF/HR	SCF/D																					
	Burners		MMBTU/HR	SCF/HR	SCF/D	HR/D	D/YR	TSP	PM10	PM2.5	SOx	NOx	VOC	Pb	CO	NH3	TSP	PM10	PM2.5	SOx	NOx	VOC	Pb	CO	NH3
DRILLING	VESSELS- Drilling - Propulsion Engine - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS- Drilling - Propulsion Engine - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS- Drilling - Propulsion Engine - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS- Drilling - Propulsion Engine - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vessels - Diesel Boiler		0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vessels – Drilling Main Engines		37012	1904.1194	45698.86	24	60	26.11	15.75	15.28	0.38	625.60	17.99	0.00	98.12	0.18	18.80	11.34	11.00	0.27	450.43	12.95	0.00	70.65	0.13
PIPELINE INSTALLATION	VESSELS - Pipeline Laying Vessel - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Pipeline Burying - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FACILITY INSTALLATION	VESSELS - Heavy Lift Vessel/Derrick Barge Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRODUCTION	RECIP.<600hp Diesel - DGE #8	DGE-8	915	47.07309	1129.75	24	0	2.02	2.02	2.02	0.06	28.44	2.10	--	6.11	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - DGE #9	DGE-9	913	46.970198	1127.28	24	0	2.01	2.01	2.01	0.06	28.38	2.09	--	6.10	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - N Crane	DGE-1	460	23.66516	567.96	24	0	1.01	1.01	1.01	0.03	14.30	1.05	--	3.07	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - S Crane	DGE-3	220	11.31812	271.63	24	0	0.49	0.49	0.49	0.01	6.84	0.50	--	1.47	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - PBA-6090	DGE-2	150	7.7169	185.21	24	0	0.33	0.33	0.33	0.01	4.66	0.34	--	1.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - Rental GEN	RENTALGEN	680	34.98328	839.60	24	0	1.50	1.50	1.50	0.04	21.14	1.56	--	4.54	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel Rental Generator		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Turbine - #1	NGT-1	4500	231.507	5556.17	24	0	9.92	9.92	9.92	0.28	139.88	10.32	--	30.06	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Turbine - #2	NGT-2	4500	231.507	5556.17	24	0	9.92	9.92	9.92	0.28	139.88	10.32	--	30.06	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Engine - #1	NGE-1	414	21.298644	511.17	24	0	0.91	0.91	0.91	0.03	12.87	0.95	--	2.77	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Engine - #2	NGE-2	1680	86.42928	2074.30	24	0	3.70	3.70	3.70	0.10	52.22	3.85	--	11.22	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Engine - #3	NGE-3	1680	86.42928	2074.30	24	0	3.70	3.70	3.70	0.10	52.22	3.85	--	11.22	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Heater/Boiler/Burner	HTR	7.5	0.385845	9.26	24	0	0.02	0.02	0.02	0.00	0.23	0.02	--	0.05	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.>600hp Diesel Generator		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
			0	0	0.00	0	0	--	0.00	0.00	0.00	0.00	0.00	--	0.00	--	--	0.00	0.00	0.00	0.00	0.00	--	0.00	--
			0	0	0.00	0	0	--	0.00	0.00	0.00	0.00	0.00	--	0.00	--	--	0.00	0.00	0.00	0.00	0.00	--	0.00	--
			0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Dual Fuel Turbine		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	MISC.		BPD	SCF/HR	COUNT																				
	STORAGE TANK	ST-1			1	24	0	--	--	--	--	--	#DIV/0!	--	--	--	--	--	--	--	--	4.30	--	--	--
					0																				
	COMBUSTION FLARE - no smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	COMBUSTION FLARE - no smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
				0																					
	FUGITIVES	FE-1			2	24	0	--	--	--	--	--	0.00	--	--	--	--	--	--	--	--	0.00	--	--	--
	COLD VENT	CV-1/CV-2			5774	24	0																		
	GLYCOL DEHYDRATOR	GLY.1			1	24	0	--	--	--	--	--	#DIV/0!	--	--	--	--	--	--	--	--	19.24	--	--	--
	WASTE INCINERATOR		0			0	0	--	0.00	0.00	0.00	0.00	--	--	0.00	0.00	--	0.00	0.00	0.00	0.00			0.00	
DRILLING	Liquid Flaring		0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WELL TEST	COMBUSTION FLARE - no smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	COMBUSTION FLARE - light smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	COMBUSTION FLARE - medium smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	COMBUSTION FLARE - heavy smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
ALASKA-SPECIFIC SOURCES	VESSELS		kW			HR/D	D/YR																		
	VESSELS - Ice Management Diesel		0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
2034	Facility Total Emissions							61.65	51.29	50.82	1.37	1,126.68	#DIV/0!	0.00	205.80	0.18	18.80	11.34	11.00	0.27	450.43	36.49	0.00	70.65	0.13
EXEMPTION CALCULATION	DISTANCE FROM LAND IN MILES																2,730.60			2,730.60	2,730.60	2,730.60		64,173.37	
	82.0																								
DRILLING	VESSELS- Crew Diesel		2265	116.52519	2796.60	18	60	1.60	0.96	0.94	0.02	38.28	1.10	0.00	6.00	0.01	0.86	0.52	0.50	0.01	20.67	0.59	0.00	3.24	0.01
	VESSELS - Supply Diesel		2265	116.52519	2796.60	18	60	1.60	0.96	0.94	0.02	38.28	1.10	0.00	6.00	0.01	0.86	0.52	0.50	0.01	20.67	0.59	0.00	3.24	0.01
	VESSELS - Tugs Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PIPELINE INSTALLATION	VESSELS - Support Diesel, Laying		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Support Diesel, Burying		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Crew Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Supply Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FACILITY INSTALLATION	VESSELS - Material Tug Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Crew Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Supply Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRODUCTION	VESSELS - Support Diesel (Crew)		2265	116.52519	2796.60	6	0	1.60	0.96	0.94	0.02	38.28	1.10	0.00	6.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Support Diesel (Supply)		2265	116.52519	2796.60	10	0	1.60	0.96	0.94	0.02	38.28	1.10	0.00	6.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ALASKA-SPECIFIC SOURCES	On-Ice Equipment			GAL/HR	GAL/D																				
	Man Camp - Operation (maximum people per day)		PEOPLE/DAY																						
	VESSELS		kW			HR/D	D/YR																		
	On-Ice – Loader			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Other Construction Equipment			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Other Survey Equipment			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Tractor			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Truck (for gravel island)			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Truck (for surveys)			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	Man Camp - Operation		0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	
	VESSELS - Hovercraft Diesel		0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2034	Non-Facility Total Emissions							6.39	3.86	3.74	0.09	153.14	4.40	0.00	24.02	0.04	1.73	1.04	1.01	0.03	41.35	1.19	0.00	6.49	0.01

AQR Spreadsheet

AIR EMISSIONS CALCULATIONS - 10th YEAR

COMPANY	AREA		BLOCK	LEASE	FACILITY	WELL					CONTACT	PHONE	REMARKS
Talos ON Exploration LLC	Ewing Bank		1010	OCS-G34879	N/A	#2					Erin Harold	713-335-6952	Drilling & completion of 1 well (#2) using drillship or DP Semi submersible and setting of 1 lease-term pipeline. This includes potential rig emissions each year to allow for scheduling flexibility.

OPERATIONS	EQUIPMENT	EQUIPMENT ID	RATING	MAX. FUEL	ACT. FUEL	RUN TIME		MAXIMUM POUNDS PER HOUR										ESTIMATED TONS								
	Diesel Engines		HP	GAL/HR	GAL/D																					
	Nat. Gas Engines		HP	SCF/HR	SCF/D																					
	Burners		MMBTU/HR	SCF/HR	SCF/D	HR/D	D/YR	TSP	PM10	PM2.5	SOx	NOx	VOC	Pb	CO	NH3	TSP	PM10	PM2.5	SOx	NOx	VOC	Pb	CO	NH3
DRILLING	VESSELS- Drilling - Propulsion Engine - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS- Drilling - Propulsion Engine - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS- Drilling - Propulsion Engine - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS- Drilling - Propulsion Engine - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vessels - Diesel Boiler		0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vessels – Drilling Main Engines		37012	1904.1194	45698.86	24	60	26.11	15.75	15.28	0.38	625.60	17.99	0.00	98.12	0.18	18.80	11.34	11.00	0.27	450.43	12.95	0.00	70.65	0.13
PIPELINE INSTALLATION	VESSELS - Pipeline Laying Vessel - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Pipeline Burying - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FACILITY INSTALLATION	VESSELS - Heavy Lift Vessel/Derrick Barge Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRODUCTION	RECIP.<600hp Diesel - DGE #8	DGE-8	915	47.07309	1129.75	24	0	2.02	2.02	2.02	0.06	28.44	2.10	--	6.11	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - DGE #9	DGE-9	913	46.970198	1127.28	24	0	2.01	2.01	2.01	0.06	28.38	2.09	--	6.10	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - N Crane	DGE-1	460	23.66516	567.96	24	0	1.01	1.01	1.01	0.03	14.30	1.05	--	3.07	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - S Crane	DGE-3	220	11.31812	271.63	24	0	0.49	0.49	0.49	0.01	6.84	0.50	--	1.47	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - PBA-6090	DGE-2	150	7.7169	185.21	24	0	0.33	0.33	0.33	0.01	4.66	0.34	--	1.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - Rental GEN	RENTALGEN	680	34.98328	839.60	24	0	1.50	1.50	1.50	0.04	21.14	1.56	--	4.54	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel Rental Generator		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Turbine - #1	NGT-1	4500	231.507	5556.17	24	0	9.92	9.92	9.92	0.28	139.88	10.32	--	30.06	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Turbine - #2	NGT-2	4500	231.507	5556.17	24	0	9.92	9.92	9.92	0.28	139.88	10.32	--	30.06	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Engine - #1	NGE-1	414	21.298644	511.17	24	0	0.91	0.91	0.91	0.03	12.87	0.95	--	2.77	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Engine - #2	NGE-2	1680	86.42928	2074.30	24	0	3.70	3.70	3.70	0.10	52.22	3.85	--	11.22	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Engine - #3	NGE-3	1680	86.42928	2074.30	24	0	3.70	3.70	3.70	0.10	52.22	3.85	--	11.22	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Heater/Boiler/Burner	HTR	7.5	0.385845	9.26	24	0	0.02	0.02	0.02	0.00	0.23	0.02	--	0.05	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.>600hp Diesel Generator		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
			0	0	0.00	0	0	--	0.00	0.00	0.00	0.00	0.00	--	0.00	--	--	0.00	0.00	0.00	0.00	0.00	--	0.00	--
			0	0	0.00	0	0	--	0.00	0.00	0.00	0.00	0.00	--	0.00	--	--	0.00	0.00	0.00	0.00	0.00	--	0.00	--
			0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Dual Fuel Turbine		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	MISC.		BPD	SCF/HR	COUNT																				
	STORAGE TANK	ST-1			1	24	0	--	--	--	--	--	#DIV/0!	--	--	--	--	--	--	--	--	4.30	--	--	--
					0	0	0																		
	COMBUSTION FLARE - no smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	COMBUSTION FLARE - no smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
				0																					
	FUGITIVES	FE-1			2	24	0	--	--	--	--	--	0.00	--	--	--	--	--	--	--	--	0.00	--	--	--
					5774	24	0																		
	GLYCOL DEHYDRATOR				1	24	0	--	--	--	--	--	#DIV/0!	--	--	--	--	--	--	--	--	19.24	--	--	--
	WASTE INCINERATOR		0			0	0	--	0.00	0.00	0.00	0.00	--	--	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00		0.00	
DRILLING WELL TEST	Liquid Flaring		0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	COMBUSTION FLARE - no smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	COMBUSTION FLARE - light smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	COMBUSTION FLARE - medium smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	COMBUSTION FLARE - heavy smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
ALASKA-SPECIFIC SOURCES	VESSELS		kW			HR/D	D/YR																		
	VESSELS - Ice Management Diesel		0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
2035	Facility Total Emissions							61.65	51.29	50.82	1.37	1,126.68	#DIV/0!	0.00	205.80	0.18	18.80	11.34	11.00	0.27	450.43	36.49	0.00	70.65	0.13
EXEMPTION CALCULATION	DISTANCE FROM LAND IN MILES																2,730.60			2,730.60	2,730.60	2,730.60		64,173.37	
	82.0																								
DRILLING	VESSELS- Crew Diesel		2265	116.52519	2796.60	18	60	1.60	0.96	0.94	0.02	38.28	1.10	0.00	6.00	0.01	0.86	0.52	0.50	0.01	20.67	0.59	0.00	3.24	0.01
	VESSELS - Supply Diesel		2265	116.52519	2796.60	18	60	1.60	0.96	0.94	0.02	38.28	1.10	0.00	6.00	0.01	0.86	0.52	0.50	0.01	20.67	0.59	0.00	3.24	0.01
	VESSELS - Tugs Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PIPELINE INSTALLATION	VESSELS - Support Diesel, Laying		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Support Diesel, Burying		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Crew Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Supply Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FACILITY INSTALLATION	VESSELS - Material Tug Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Crew Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Supply Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRODUCTION	VESSELS - Support Diesel (Crew)		2265	116.52519	2796.60	6	0	1.60	0.96	0.94	0.02	38.28	1.10	0.00	6.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Support Diesel (Supply)		2265	116.52519	2796.60	10	0	1.60	0.96	0.94	0.02	38.28	1.10	0.00	6.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ALASKA-SPECIFIC SOURCES	On-Ice Equipment			GAL/HR	GAL/D																				
	Man Camp - Operation (maximum people per day)		PEOPLE/DAY																						
	VESSELS		kW			HR/D	D/YR																		
	On-Ice – Loader			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Other Construction Equipment			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Other Survey Equipment			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Tractor			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Truck (for gravel island)			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Truck (for surveys)			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	Man Camp - Operation		0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	
	VESSELS - Hovercraft Diesel		0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2035	Non-Facility Total Emissions							6.39	3.86	3.74	0.09	153.14	4.40	0.00	24.02	0.04	1.73	1.04	1.01	0.03	41.35	1.19	0.00	6.49	0.01

AQR Spreadsheet

AIR EMISSIONS CALCULATIONS - 10th YEAR

COMPANY	AREA		BLOCK	LEASE	FACILITY	WELL					CONTACT	PHONE	REMARKS
Talos ON Exploration LLC	Ewing Bank		1010	OCS-G34879	N/A	#2					Erin Harold	713-335-6952	Drilling & completion of 1 well (#2) using drillship or DP Semi submersible and setting of 1 lease-term pipeline. This includes potential rig emissions each year to allow for scheduling flexibility.

OPERATIONS	EQUIPMENT	EQUIPMENT ID	RATING	MAX. FUEL	ACT. FUEL	RUN TIME		MAXIMUM POUNDS PER HOUR										ESTIMATED TONS								
	Diesel Engines		HP	GAL/HR	GAL/D																					
	Nat. Gas Engines		HP	SCF/HR	SCF/D																					
	Burners		MMBTU/HR	SCF/HR	SCF/D	HR/D	D/YR	TSP	PM10	PM2.5	SOx	NOx	VOC	Pb	CO	NH3	TSP	PM10	PM2.5	SOx	NOx	VOC	Pb	CO	NH3
DRILLING	VESSELS- Drilling - Propulsion Engine - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS- Drilling - Propulsion Engine - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS- Drilling - Propulsion Engine - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS- Drilling - Propulsion Engine - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vessels - Diesel Boiler		0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vessels – Drilling Main Engines		37012	1904.1194	45698.86	24	60	26.11	15.75	15.28	0.38	625.60	17.99	0.00	98.12	0.18	18.80	11.34	11.00	0.27	450.43	12.95	0.00	70.65	0.13
PIPELINE INSTALLATION	VESSELS - Pipeline Laying Vessel - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Pipeline Burying - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FACILITY INSTALLATION	VESSELS - Heavy Lift Vessel/Derrick Barge Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRODUCTION	RECIP.<600hp Diesel - DGE #8	DGE-8	915	47.07309	1129.75	24	0	2.02	2.02	2.02	0.06	28.44	2.10	--	6.11	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - DGE #9	DGE-9	913	46.970198	1127.28	24	0	2.01	2.01	2.01	0.06	28.38	2.09	--	6.10	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - N Crane	DGE-1	460	23.66516	567.96	24	0	1.01	1.01	1.01	0.03	14.30	1.05	--	3.07	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - S Crane	DGE-3	220	11.31812	271.63	24	0	0.49	0.49	0.49	0.01	6.84	0.50	--	1.47	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - PBA-6090	DGE-2	150	7.7169	185.21	24	0	0.33	0.33	0.33	0.01	4.66	0.34	--	1.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - Rental GEN	RENTALGEN	680	34.98328	839.60	24	0	1.50	1.50	1.50	0.04	21.14	1.56	--	4.54	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel Rental Generator		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Turbine - #1	NGT-1	4500	231.507	5556.17	24	0	9.92	9.92	9.92	0.28	139.88	10.32	--	30.06	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Turbine - #2	NGT-2	4500	231.507	5556.17	24	0	9.92	9.92	9.92	0.28	139.88	10.32	--	30.06	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Engine - #1	NGE-1	414	21.298644	511.17	24	0	0.91	0.91	0.91	0.03	12.87	0.95	--	2.77	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Engine - #2	NGE-2	1680	86.42928	2074.30	24	0	3.70	3.70	3.70	0.10	52.22	3.85	--	11.22	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Engine - #3	NGE-3	1680	86.42928	2074.30	24	0	3.70	3.70	3.70	0.10	52.22	3.85	--	11.22	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Heater/Boiler/Burner	HTR	7.5	0.385845	9.26	24	0	0.02	0.02	0.02	0.00	0.23	0.02	--	0.05	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.>600hp Diesel Generator		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
			0	0	0.00	0	0	--	0.00	0.00	0.00	0.00	0.00	--	0.00	--	--	0.00	0.00	0.00	0.00	0.00	--	0.00	--
			0	0	0.00	0	0	--	0.00	0.00	0.00	0.00	0.00	--	0.00	--	--	0.00	0.00	0.00	0.00	0.00	--	0.00	--
			0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Dual Fuel Turbine		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	MISC.		BPD	SCF/HR	COUNT																				
	STORAGE TANK	ST-1			1	24	0	--	--	--	--	--	#DIV/0!	--	--	--	--	--	--	--	--	4.30	--	--	--
					0	0	0																		
	COMBUSTION FLARE - no smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	COMBUSTION FLARE - no smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
				0																					
	FUGITIVES	FE-1			2	24	0	--	--	--	--	--	0.00	--	--	--	--	--	--	--	--	0.00	--	--	--
					5774	24	0																		
	GLYCOL DEHYDRATOR				1	24	0	--	--	--	--	--	#DIV/0!	--	--	--	--	--	--	--	--	19.24	--	--	--
	WASTE INCINERATOR		0			0	0	--	0.00	0.00	0.00	0.00	--	--	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00		0.00	
DRILLING WELL TEST	Liquid Flaring		0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	COMBUSTION FLARE - no smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	COMBUSTION FLARE - light smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	COMBUSTION FLARE - medium smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	COMBUSTION FLARE - heavy smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
ALASKA-SPECIFIC SOURCES	VESSELS		kW			HR/D	D/YR																		
	VESSELS - Ice Management Diesel		0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
2036	Facility Total Emissions							61.65	51.29	50.82	1.37	1,126.68	#DIV/0!	0.00	205.80	0.18	18.80	11.34	11.00	0.27	450.43	36.49	0.00	70.65	0.13
EXEMPTION CALCULATION	DISTANCE FROM LAND IN MILES																2,730.60			2,730.60	2,730.60	2,730.60		64,173.37	
	82.0																								
DRILLING	VESSELS- Crew Diesel		2265	116.52519	2796.60	18	60	1.60	0.96	0.94	0.02	38.28	1.10	0.00	6.00	0.01	0.86	0.52	0.50	0.01	20.67	0.59	0.00	3.24	0.01
	VESSELS - Supply Diesel		2265	116.52519	2796.60	18	60	1.60	0.96	0.94	0.02	38.28	1.10	0.00	6.00	0.01	0.86	0.52	0.50	0.01	20.67	0.59	0.00	3.24	0.01
	VESSELS - Tugs Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PIPELINE INSTALLATION	VESSELS - Support Diesel, Laying		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Support Diesel, Burying		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Crew Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Supply Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FACILITY INSTALLATION	VESSELS - Material Tug Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Crew Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Supply Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRODUCTION	VESSELS - Support Diesel (Crew)		2265	116.52519	2796.60	6	0	1.60	0.96	0.94	0.02	38.28	1.10	0.00	6.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Support Diesel (Supply)		2265	116.52519	2796.60	10	0	1.60	0.96	0.94	0.02	38.28	1.10	0.00	6.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ALASKA-SPECIFIC SOURCES	On-Ice Equipment			GAL/HR	GAL/D																				
	Man Camp - Operation (maximum people per day)		PEOPLE/DAY																						
	VESSELS		kW			HR/D	D/YR																		
	On-Ice – Loader			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Other Construction Equipment			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Other Survey Equipment			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Tractor			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Truck (for gravel island)			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Truck (for surveys)			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	Man Camp - Operation		0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	
	VESSELS - Hovercraft Diesel		0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2036	Non-Facility Total Emissions							6.39	3.86	3.74	0.09	153.14	4.40	0.00	24.02	0.04	1.73	1.04	1.01	0.03	41.35	1.19	0.00	6.49	0.01

AQR Spreadsheet

AIR EMISSIONS CALCULATIONS - 10th YEAR

COMPANY	AREA		BLOCK	LEASE	FACILITY	WELL					CONTACT	PHONE	REMARKS
Talos ON Exploration LLC	Ewing Bank		1010	OCS-G34879	N/A	#2					Erin Harold	713-335-6952	Drilling & completion of 1 well (#2) using drillship or DP Semi submersible and setting of 1 lease-term pipeline. This includes potential rig emissions each year to allow for scheduling flexibility.

OPERATIONS	EQUIPMENT	EQUIPMENT ID	RATING	MAX. FUEL	ACT. FUEL	RUN TIME		MAXIMUM POUNDS PER HOUR										ESTIMATED TONS								
	Diesel Engines		HP	GAL/HR	GAL/D																					
	Nat. Gas Engines		HP	SCF/HR	SCF/D																					
	Burners		MMBTU/HR	SCF/HR	SCF/D	HR/D	D/YR	TSP	PM10	PM2.5	SOx	NOx	VOC	Pb	CO	NH3	TSP	PM10	PM2.5	SOx	NOx	VOC	Pb	CO	NH3
DRILLING	VESSELS- Drilling - Propulsion Engine - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS- Drilling - Propulsion Engine - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS- Drilling - Propulsion Engine - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS- Drilling - Propulsion Engine - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vessels - Diesel Boiler		0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Vessels – Drilling Main Engines		37012	1904.1194	45698.86	24	60	26.11	15.75	15.28	0.38	625.60	17.99	0.00	98.12	0.18	18.80	11.34	11.00	0.27	450.43	12.95	0.00	70.65	0.13
PIPELINE INSTALLATION	VESSELS - Pipeline Laying Vessel - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Pipeline Burying - Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FACILITY INSTALLATION	VESSELS - Heavy Lift Vessel/Derrick Barge Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRODUCTION	RECIP.<600hp Diesel - DGE #8	DGE-8	915	47.07309	1129.75	24	0	2.02	2.02	2.02	0.06	28.44	2.10	--	6.11	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - DGE #9	DGE-9	913	46.970198	1127.28	24	0	2.01	2.01	2.01	0.06	28.38	2.09	--	6.10	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - N Crane	DGE-1	460	23.66516	567.96	24	0	1.01	1.01	1.01	0.03	14.30	1.05	--	3.07	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - S Crane	DGE-3	220	11.31812	271.63	24	0	0.49	0.49	0.49	0.01	6.84	0.50	--	1.47	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - PBA-6090	DGE-2	150	7.7169	185.21	24	0	0.33	0.33	0.33	0.01	4.66	0.34	--	1.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel - Rental GEN	RENTALGEN	680	34.98328	839.60	24	0	1.50	1.50	1.50	0.04	21.14	1.56	--	4.54	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.<600hp Diesel Rental Generator		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Turbine - #1	NGT-1	4500	231.507	5556.17	24	0	9.92	9.92	9.92	0.28	139.88	10.32	--	30.06	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Turbine - #2	NGT-2	4500	231.507	5556.17	24	0	9.92	9.92	9.92	0.28	139.88	10.32	--	30.06	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Engine - #1	NGE-1	414	21.298644	511.17	24	0	0.91	0.91	0.91	0.03	12.87	0.95	--	2.77	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Engine - #2	NGE-2	1680	86.42928	2074.30	24	0	3.70	3.70	3.70	0.10	52.22	3.85	--	11.22	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Engine - #3	NGE-3	1680	86.42928	2074.30	24	0	3.70	3.70	3.70	0.10	52.22	3.85	--	11.22	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	Natural Gas Heater/Boiler/Burner	HTR	7.5	0.385845	9.26	24	0	0.02	0.02	0.02	0.00	0.23	0.02	--	0.05	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	RECIP.>600hp Diesel Generator		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
			0	0	0.00	0	0	--	0.00	0.00	0.00	0.00	0.00	--	0.00	--	--	0.00	0.00	0.00	0.00	0.00	--	0.00	--
			0	0	0.00	0	0	--	0.00	0.00	0.00	0.00	0.00	--	0.00	--	--	0.00	0.00	0.00	0.00	0.00	--	0.00	--
			0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Dual Fuel Turbine		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	MISC.		BPD	SCF/HR	COUNT																					
	STORAGE TANK	ST-1			1	24	0	--	--	--	--	--	#DIV/0!	--	--	--	--	--	--	--	--	4.30	--	--	--
					0	0	0																		
	COMBUSTION FLARE - no smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	COMBUSTION FLARE - no smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
				0																					
	FUGITIVES	FE-1			2	24	0	--	--	--	--	--	0.00	--	--	--	--	--	--	--	--	0.00	--	--	--
					5774	24	0																		
	GLYCOL DEHYDRATOR				1	24	0	--	--	--	--	--	#DIV/0!	--	--	--	--	--	--	--	--	19.24	--	--	--
	WASTE INCINERATOR		0			0	0	--	0.00	0.00	0.00	0.00	--	--	0.00	--	--	0.00	0.00	0.00	0.00			0.00	
DRILLING WELL TEST	Liquid Flaring		0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	COMBUSTION FLARE - no smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	COMBUSTION FLARE - light smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	COMBUSTION FLARE - medium smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
	COMBUSTION FLARE - heavy smoke			0		0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--
ALASKA-SPECIFIC SOURCES	VESSELS		kW			HR/D	D/YR																		
	VESSELS - Ice Management Diesel		0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
2037	Facility Total Emissions							61.65	51.29	50.82	1.37	1,126.68	#DIV/0!	0.00	205.80	0.18	18.80	11.34	11.00	0.27	450.43	36.49	0.00	70.65	0.13
EXEMPTION CALCULATION	DISTANCE FROM LAND IN MILES																2,730.60			2,730.60	2,730.60	2,730.60		64,173.37	
	82.0																								
DRILLING	VESSELS- Crew Diesel		2265	116.52519	2796.60	18	60	1.60	0.96	0.94	0.02	38.28	1.10	0.00	6.00	0.01	0.86	0.52	0.50	0.01	20.67	0.59	0.00	3.24	0.01
	VESSELS - Supply Diesel		2265	116.52519	2796.60	18	60	1.60	0.96	0.94	0.02	38.28	1.10	0.00	6.00	0.01	0.86	0.52	0.50	0.01	20.67	0.59	0.00	3.24	0.01
	VESSELS - Tugs Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PIPELINE INSTALLATION	VESSELS - Support Diesel, Laying		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Support Diesel, Burying		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Crew Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Supply Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FACILITY INSTALLATION	VESSELS - Material Tug Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Crew Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Supply Diesel		0	0	0.00	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PRODUCTION	VESSELS - Support Diesel (Crew)		2265	116.52519	2796.60	6	0	1.60	0.96	0.94	0.02	38.28	1.10	0.00	6.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	VESSELS - Support Diesel (Supply)		2265	116.52519	2796.60	10	0	1.60	0.96	0.94	0.02	38.28	1.10	0.00	6.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ALASKA-SPECIFIC SOURCES	On-Ice Equipment			GAL/HR	GAL/D																				
	Man Camp - Operation (maximum people per day)		PEOPLE/DAY																						
	VESSELS		kW			HR/D	D/YR																		
	On-Ice – Loader			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Other Construction Equipment			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Other Survey Equipment			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Tractor			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Truck (for gravel island)			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	On-Ice – Truck (for surveys)			0	0.0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00
	Man Camp - Operation		0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	
	VESSELS - Hovercraft Diesel		0			0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2037	Non-Facility Total Emissions							6.39	3.86	3.74	0.09	153.14	4.40	0.00	24.02	0.04	1.73	1.04	1.01	0.03	41.35	1.19	0.00	6.49	0.01

AQR Spreadsheet

AIR EMISSIONS CALCULATIONS

COMPANY	AREA	BLOCK	LEASE	FACILITY	WELL	
Talos QN Exploration LLC	Ewing Bank	1010	OCS-G34879	N/A	#2	

Year	Facility Emitted Substance								
	TSP	PM10	PM2.5	SOx	NOx	VOC	Pb	CO	NH3
2027	54.46	32.08	30.97	30.58	1258.81	59.68	0.00	197.83	0.53
2028	18.80	11.34	11.00	0.27	450.43	36.49	0.00	70.65	0.13
2029	18.80	11.34	11.00	0.27	450.43	36.49	0.00	70.65	0.13
2030	18.80	11.34	11.00	0.27	450.43	36.49	0.00	70.65	0.13
2031	18.80	11.34	11.00	0.27	450.43	36.49	0.00	70.65	0.13
2032	18.80	11.34	11.00	0.27	450.43	36.49	0.00	70.65	0.13
2033	18.80	11.34	11.00	0.27	450.43	36.49	0.00	70.65	0.13
2034	18.80	11.34	11.00	0.27	450.43	36.49	0.00	70.65	0.13
2035	18.80	11.34	11.00	0.27	450.43	36.49	0.00	70.65	0.13
2036	18.80	11.34	11.00	0.27	450.43	36.49	0.00	70.65	0.13
2037	18.80	11.34	11.00	0.27	450.43	36.49	0.00	70.65	0.13
Allowable	2730.60			2730.60	2730.60	2730.60		64173.37	

APPENDIX I
OIL SPILLS INFORMATION

A) OIL SPILL RESPONSE PLANNING

Pursuant to CFR 250.219 and NTL BOEM 2015-N01, this appendix provides information regarding any potential oil spill(s), the assumptions and calculations used to determine the worst case discharge (WCD) measures scenario.

Below is a reference to and status of Talos QN Exploration LLC's Regional OSRP. A site specific OSRP nor a subregional OSRP is not required with this plan, as the State of Florida is not an affected State for the activities proposed herein.

1) REGIONAL OR SUBREGIONAL OSRP INFORMATION

All of the proposed activities and facilities in this Plan will be covered by the Regional Oil Spill Response Plan filed by Talos Production Inc. (BOEM Company No. 03283) in accordance with 30 CFR 254 and approved on August 1, 2024, OSRP Control No. O-1082. By letter dated December 18, 2024, the update was found to be in compliance. BSEE acknowledged that the following operators are covered under this OSRP:
Talos ERT LLC (02899)
Talos Petroleum LLC (01834)
Talos Energy Offshore LLC (03247)
Talos Energy Ventures, LLC (03026)Talos Oil and Gas LLC (03269)
Talos Third Coast LLC (03619)
Talos Gulf Coast Onshore, LLC (22691)
Talos Gulf Coast Offshore LLC (03201)
Talos QN Exploration LLC (03672)

2) SPILL RESPONSE SITES

The table below provides information on the location of the primary spill response equipment and the location of the planned staging area(s) that would be used should an oil spill occur resulting from the activities proposed herein.

Primary Response Equipment Location	Pre-planned Staging Location
Houma, LA; Harvey, LA; Leeville, LA	Houma, LA; Harvey, LA; Leeville, LA; Fourchon, LA

3) OIL SPILL REMOVAL ORGANIZATION (OSRO) INFORMATION

Talos' primary equipment provider is Clean Gulf Association (CGA). The Marine Spill Response Corporation's (MSRC) STARS network will closest available personnel, as well as a MSRC supervisor to operate the equipment. CGA and MSRC have equipment pre-staged around the Gulf of Mexico. The major locations of this equipment are Lake Charles, Houma, Fort Jackson, and Venice, Louisiana; Galveston and Ingleside, Texas; and Pascagoula, Mississippi.

4) WORST CASE SCENARIO COMPARISON

The table below provides a comparison of the worst-case discharge scenario from the above referenced Regional OSRP with the worst-case scenario from the activities proposed herein. Please note the Regional OSRP distance to shore scenarios are approximate and will be updated as required with modifications to the OSRP. The distance to shore for the proposed activities is accurate and based on survey data.

Worst Case Discharge Comparison Chart				
Category	**DRILLING**		**PRODUCTION**	
	REGIONAL OSRP WCD	DOCD WCD CURRENT PLAN	REGIONAL OSRP WCD	DOCD WCD CURRENT PLAN
Type of Activity	EXPLORATORY WELL	DOCD WCD	Production > 10 miles from shore	DOCD WCD
Facility Location (Area/Block)	GC 39	GC 40	GC 200	GC 40
Facility Designation	Katmai West #2	Well 002	TA009	Well 002
Distance to Shore (miles)	73	73	88	73
Volume Lease Term Pipelines				

Worst Case Discharge Comparison Chart				
Category	**DRILLING**		**PRODUCTION**	
	REGIONAL OSRP WCD	DOCD WCD CURRENT PLAN	REGIONAL OSRP WCD	DOCD WCD CURRENT PLAN
Type of Activity	EXPLORATORY WELL	DOCD WCD	Production > 10 miles from shore	DOCD WCD
Storage				
Flowlines (on facility)				
Uncontrolled Blowout	388000.00	360650.00	54689.00	37132.00
Total Volume	**388000.00**	**360650.00**	**54689.00**	**37132.00**
Type of Oil(s) (crude, condensate, diesel)	Crude	Crude	Crude	Crude
API Gravity	37.9	36	24.9	36

The WCD volume shown above was reviewed and approved under Plan R-7160. The WCD volume for Plan R-7160 is higher than the volume for the activities proposed herein.

Since Talos QN Exploration LLC has the capacity to respond to the worst case spill scenario included in our Regional OSRP approved on August 1, 2024 and determined in compliance December 18, 2024, and since the worst case scenario determined for our Plan does not replace the worst case scenario in our Regional OSRP, Talos hereby certifies that we have the capacity to respond, to the maximum extent practicable, to a worst case discharge, or substantial threat of such a discharge, resulting from the activities proposed in this Plan.

5) WORST CASE DISCHARGE SCENARIOS AND ASSUMPTIONS

As a basis for discussion in this section, it is assumed that a subsea blowout with uncontrollable release of formation fluids could result in liquid hydrocarbons being released into OCS waters at any time during the life cycle of a well.

6) OIL SPILL RESPONSE DISCUSSION

Talos provided an Oil Spill Response Discussion for the Worst Case Discharge Volume for GC40 in Plan Control No. R-7160, approved on July 22, 2022, which established the Worst Case Discharge Volume for the Field.The proposed operations do not supersede the worst case discharge volume previously provided and approved.

7) MODELING

In accordance with NTL 2008-G04, this information is not required for the activities proposed herein as the State of Florida is not an affected State, no surface facility is being installed in water depths greater than 1,312 feet, nor is a surface facility being installed in any water depth that supports a subsea development in water depths greater than 1,312 feet.

APPENDIX J
ENVIRONMENTAL MONITORING INFORMATION

A) MONITORING SYSTEMS

The proposed drilling units are equipped with Acoustic Doppler Current Profile (ADCP) monitoring equipment. Data from these meters are reported to the National Data Buoy Center website.

B) INCIDENTAL TAKES

There is no reason to believe that any of the endangered species or marine mammals as listed in the ESA will be "taken" as a result of the operations proposed under this plan.To date, it has been documented that the use of explosives and/or seismic devices can affect marine life. Operations proposed in this plan will not be utilizing either of these devices. Operations in this plan will also not be utilizing pile driving. The pipeline proposed in this plan will not be making landfall.

Talos QN Exploration LLC will adhere to the requirements as set forth in the following Notices to Lessees and guidelines, as applicable, to avoid or minimize impacts to any of the species listed in the ESA as a result of the operations conducted herein:

NTL 2015-G03 "Marine Trash and Debris Awareness and Elimination" BOEM NTL 2016-G01 "Vessel Strike Avoidance and Injured/ Dead Protected Species Reporting" BOEM NTL 2016-G02 "Implementation of Seismic Survey Mitigation Measures and Protected Species Observer Program"

2020 Biological Opinion:

- Appendix A: Seismic Survey Mitigation and Protected Species Observer Protocols, found in the Biological Opinion issued by the NAtional Marine Fisheries Service on March 13, 2020
- Appendix B: Gulf of Mexico Marine Trash and Debris Awareness and Elimination Survey Protocols, found in the Biological Opinion issued by the National Marine Fisheries Service on March 13, 2020
- Appendix C: Gulf of Mexico Vessel STrike Avoidance and Injured/Dead Aquatic Protected Species Reporting Protocols, found in the Biological Opinion issued by the National Marine Fisheries Service on March 13, 2020
- Appendix J: Sea Turtle Handling and Resuscitation Guidelines, found in the Biological Opinion issued by the National Marine Fisheries Services on March 13, 2020

C) FLOWER GARDEN BANKS NATIONAL MARINE SANCTUARY

In accordance with NTL 2008-G04, this information is not applicable to the activities proposed herein as the subject area and block(s) are not located within the Protective Zones of the Flower Garden Banks and Stetson Bank.

APPENDIX K
LEASE STIPULATIONS INFORMATION

A) Lease stipulations are developed and implemented on a sale by sale basis and are applied to individual leases based on specific instructions in the applicable Final Notice of Sale Package. Stipulations place restrictions and operating requirements on lessees. This may involve protection of environmentally sensitive organisms or communities that exist in the area covered by the lease, conflicts with other uses such as military operations, LNG or sand extraction. The activities proposed herein are subject to the following stipulations attached to the subject lease(s).

Marine Protected Species
Lease Stipulation No. 8 is designed to protect threatened and endangered species and marine mammals and apply to activities on the Outer Continental Shelf (OCS). The Outer Continental Shelf Lands Act (OCSLA; at 43 U.S.C. §1332) provides that the OCS should be made available for expeditious and orderly development and that operations on the OCS should be conducted in a manner that prevents or minimizes damage to the environment. The Bureau of Ocean Energy Management (BOEM) and Bureau of Safety and Environmental Enforcement (BSEE) implement these laws on the OCS.

APPENDIX L
ENVIRONMENTAL MITIGATION MEASURES INFORMATION

A) MEASURES TAKEN TO AVOID, MINIMIZE, AND MITIGATE IMPACTS

In accordance with NTL 2008-G04, this information is not applicable to the activities proposed herein as the State of Florida is not an affected State.

B) INCIDENTAL TAKES

Talos QN Exploration LLC will adhere to the requirements as set forth in the following Notices to Lessees, as applicable, to avoid or minimize impacts to any of the species listed in the ESA as a result of the operations conducted herein:NTL 2015-G03 "Marine Trash and Debris Awareness and Elimination"BOEM NTL 2016-G01 "Vessel Strike Avoidance and Injured/ Dead Protected Species Reporting"BOEM NTL 2016-G02 "Implementation of Seismic Survey Mitigation Measures and Protected Species Observer Program"Biological Opinion 2020:Appendix A: Seismic Survey Mitigation and Protected Species Observer Protocols, found in the Biological Opinion issued by the NAtional Marine Fisheries Service on March 13, 2020Appendix B: Gulf of Mexico Marine Trash and Debris Awareness and Elimination Survey Protocols, found in the Biological Opinion issued by the National Marine Fisheries Service on March 13, 2020Appendix C: Gulf of Mexico Vessel STrike Avoidance and Injured/Dead Aquatic Protected Species Reporting Protocols, found in the Biological Opinion issued by the National Marine Fisheries Service on March 13, 2020Appendix J: Sea Turtle Handling and Resuscitation Guidelines, found in the Biological Opinion issued by the National Marine Fisheries Services on March 13, 2020Note: The proposed operations will not utilize a casing hammer to drive pipe. Talos does not propose any new pipelines that will make landfall.

Talos will utilize a Drilling Rig with a typical moonpool that is used in all Deepwater Dynamically Positioned Drillships and Semi-submersibles. The moonpool is located on or about the center of the rig. The moonpool's purpose is to allow access to the water level to drill, complete and workover wells. This also allows access to run the Blowout Preventers, Marine Riser and ancillary equipment to the seafloor. There is no closing mechanism for the moonpool area as it is always open to the sea.

In the extremely rare instance that marine life would get entrapped or entangled by equipment in the moonpool, or by any other equipment on the rig, below are mitigations that will be put in place to protect the marine life in case of an incident:

- Talos will provide a dedicated crew member to survey the moonpool area for marine life while moving any equipment in or out of that area.
- If marine life is detected in the moonpool area, we will cease all operations until it is free and clear.
- Monitor video from the camera(s) that is focused on the moonpool area.
- If endangered marine life is seen in the area, a live video feed can be streamed real-time for additional coverage.
- If marine life is entrapped or entangled, we can safely lower someone into the moonpool to free it.

APPENDIX M
RELATED FACILITIES & OPERATIONS INFORMATION

A) RELATED OCS FACILITIES AND OPERATIONS

Under this plan of operations, Talos QN Exploration LLC (Talos) is proposing to drill and produce one (1) subsea well in Ewing Bank Block 1010, OCS-G 34879, Well No. 002.

A lease term pipeline will transport bulk oil to an existing PLET in the GC 40 block.

This production will tie back to the South Timbalier Block 308 "A-Tarantula" platform.

B) TRANSPORTATION SYSTEM

A lease term pipeline will be installed to transport produced hydrocarbons from the proposed GC 40 #3 well to an existing pipeline within GC 40. No new nearshore or onshore pipelines or facilities will be constructed.

C) PRODUCED LIQUID HYDROCARBONS TRANSPORTATION VESSELS

In accordance with NTL 2008-G04, this information is not applicable to the activities proposed herein as no liquid hydrocarbons will be transported by means other than a pipeline.

APPENDIX N
SUPPORT VESSELS AND AIRCRAFT INFORMATION

A) GENERAL

The most practical direct route from the shorebase in ICY, Louisiana, as permitted by weather and traffic conditions will be utilized.

The vessels, supply boats, etc. utilized for the proposed activities will not transit the Rice's Whale area.

Type	Maximun Fuel Tank Capacity	Maximun Number in Area at Any Time	Trip Frequency or Duration
Supply Boat	6630 bbls	2	3 trips per week
Helicopter	260 gallons	1	Daily
Crew boats	394 bbls	1	4 trips per week

B) DIESEL OIL SUPPLY VESSELS

The table below provides information on the vessels that will be used to supply diesel oil. It also includes all vessels that will transfer diesel oil that will be used for purposes other than fuel.

Size of Fuel Supply Vessel	Capacity of Fuel Supply Vessel	Frequency of Fuel Transfers	Route Fuel Supply Vessel Will Take
320 feet	6,000 bbls	Weekly	Most Direct route from shorebase

C) DRILLING FLUID TRANSPORTATION

In accordance with NTL 2008-G04, this information is not applicable to the activities proposed herein as the State of Florida is not an affected State.

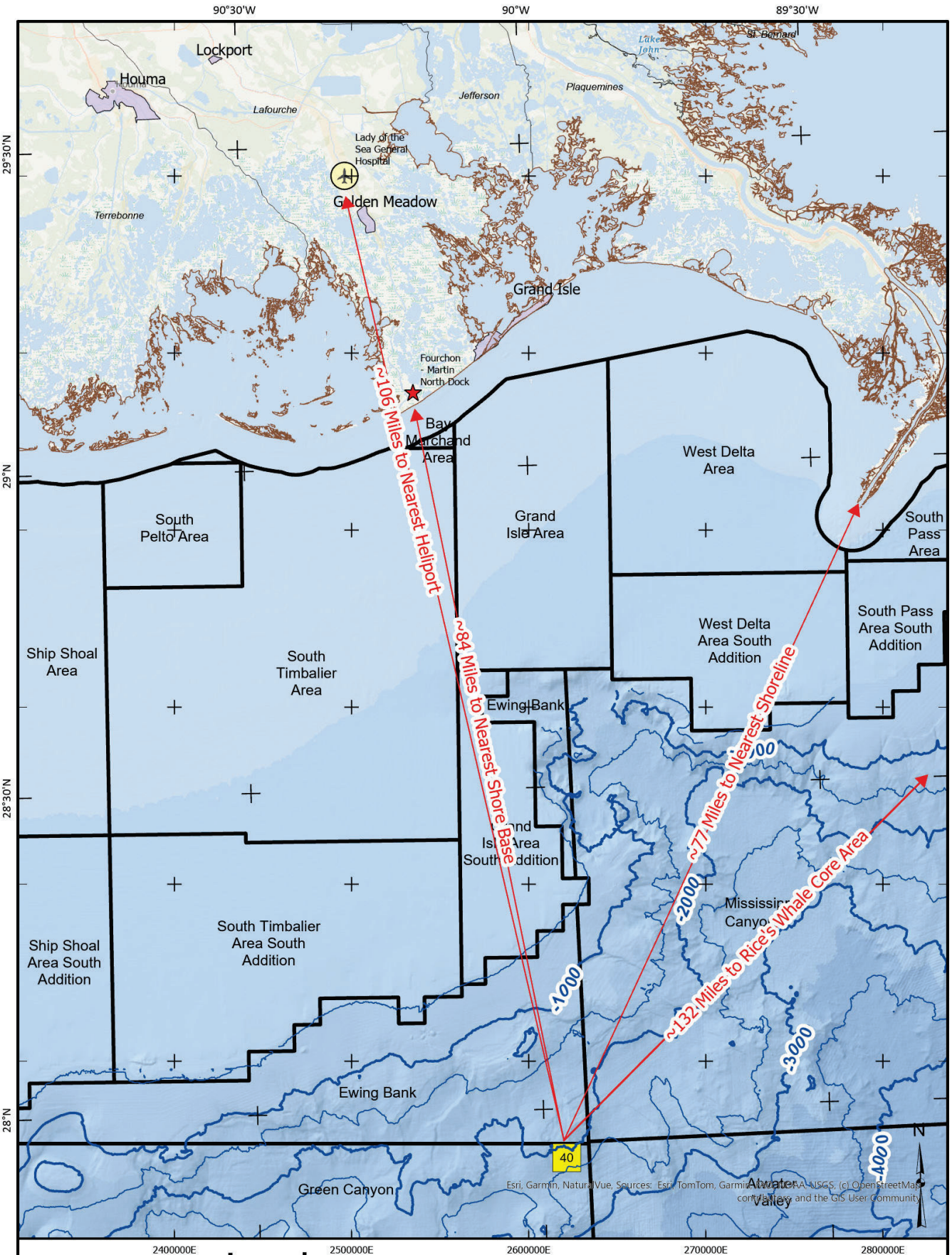
D) SOLID AND LIQUID WASTE TRANSPORTATION

In accordance with BOEM guidance, the required data regarding the solid and liquid waste which will be transported from the site of the activities proposed herein has been incorporated into the Waste & Discharge tables which are included in the attachment(s) to the Waste & Discharge Information appendix.

E) VICINITY MAP

Enclosed as an attachment to this appendix is a vicinity map for the activities proposed herein depicting the location of same relative to the shoreline with the distance of the proposed activities from the shoreline and the primary route(s) of the support vessels and aircraft which will be used when traveling between the onshore support facilities and the proposed operations.

The vessels, supply boats, etc. utilized for the proposed activities will not transit the Rice's Whale area.



Legend

- GC40 Katmai East
- Shore Base - Fourchon
- Municipal_Boundaries
- RLC Heliport GAO, Galiano, LA

Scale: 1:600,000

0 5 10 15 20 Miles

Spatial Reference
Name: NAD 1927 BLM Zone 15N
PCS: NAD 1927 BLM Zone 15N
GCS: GCS North American 1927
Datum: North American 1927
Projection: Transverse Mercator
Central Meridian: -93.0000
Latitude of Origin: 0.0000
Longitude of Origin: 0.0000
False Easting: 1,640,416.6667
False Northing: 0.0000
Scale Factor: 0.9996
Map Units: Foot US
Authority: EPSG
WKID: 32065

TALOS ENERGY INC.

Green Canyon Block 40 "Katmai East" Field
Gulf of Mexico

VICINITY PLAT FOR GC40 KATMAI EAST

Date Saved: 6/4/2025 12:05 PM
Author: KGallatin
Name: GC40_Katmai_East_Vicinity_20250528_KDG

Vicinity Map

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APPENDIX O
ONSHORE SUPPORT FACILITIES INFORMATION

A) GENERAL

The table below is a list of the onshore facilities that will be used to provide supply and service support for the activities proposed herein.

Name of Shorebase	Location	Existing/New/Modified
ICY Shorebase	Abbeville, LA	Existing
MI Swaco Dock	Port Fourchon, LA	Existing
Halliburton/Baroid Dock	Port Fourchon, LA	Existing
Cameron Dock	Lake Charles, LA	Existing
Halliburton/Baroid	Galveston, TX	Existing
Dulac Shorebase	Dulac, LA	Existing
GIS Dock	Venice, LA	Existing
Fourchon Shorebase	Port Fourchon, LA	Existing
Martin Midstream	Galveston, TX	Existing

B) SUPPORT BASE CONSTRUCTION OR EXPANSION

In accordance with NTL 2008-G04, this information is not applicable to the activities proposed herein as Talos QN Exploration LLC will use an existing onshore base facility and will not need to expand or modify those facilities to accomodate the operations proposed herein.

C) SUPPORT BASE CONSTRUCTION OR EXPANSION TIMETABLE

In accordance with NTL 2008-G04, this information is not applicable to the activities proposed herein as no land is being acquired to construct or expand an onshore support base.

D) WASTE DISPOSAL

In accordance with BOEM guidance, the required data regarding the facilities that will be used to store and dispose of any solid and liquid wastes generated by the activities proposed herein has been incorporated into the Waste & Discharge tables which are included in the attachment(s) to the Waste & Discharge Information appendix.

E) AIR EMISSIONS

In accordance with NTL 2008-G04, this information is not applicable to the activites proposed herein as the air emissions information in this section is not required for plans where the activities being proposed are within the boundaries of the Gulf of Mexico Region.

F) UNUSUAL SOLID AND LIQUID WASTES

In accordance with NTL 2008-G04, this information is not appliable to the activities proposed herein as the unusual solid and liquid wastes information generated by onshore support facilities is not required for plans that propose activities that fall within the boundaries of the Gulf of Mexico Region.

APPENDIX P
COASTAL ZONE MANAGEMENT (CZMA) INFORMATION

A) In accordance with NTL 2008-G04, this information is not applicable to the activities proposed herein as no new multi-well structures for which Louisiana, Mississippi and Texas would be an affected state is being proposed.

APPENDIX Q
ENVIRONMETAL IMPACT ANALYSIS

A) In accordance with NTL 2008-G04, this information is not applicable to the activites proposed as the Environmental Impact Analysis for the subject lease(s) has been previously approved by BOEM under Plan Control No. S-8204.

APPENDIX R
ADMINISTRATIVE INFORMATION

A) EXEMPTED INFORMATION DESCRIPTION

Proprietary information included in the proprietary copy of this plan is listed below.

- BHL, TVD, and MD information on Form 137
- WCD sand and depth information on Form 137 and supporting documentation
- Certain items and enclosures under Geological and Geophysical information
- Correlative well information used to justify the H2S classification
- Casing summary information
- Charts containing sand tops and bases in the analog wells
- Directional Survey
- Wellbore Schematics

B) BIBLIOGRAPHY

Below is a listing of all referenced material used to development this plan.

- BOEM Notice to Lessees No. 2016-G01 "Vessel Strike Avoidance and Injured/Dead Protected Species Reporting"
- BOEM Notice to Lessees No. 2016-G02 "Implementation of Seismic Survey Mitigation Measures and Protected Species Observer Program"
- BOEM Notice to Lessees No. 2016-N01 "Requiring Additional Security"
- BOEM Notice to Lessees No. 2015-N01 "Information Requirements for Exploration Plans, Development and Production Plans, and Development Operations Coordination Documents on the OCS for Worst Case Discharge and Blowout Scenarios"
- Notice to Lessees No. 2015-G03 "Marine Trash and Debris Awareness and Elimination"
- Notice to Lessees No. 2011-G01 (Joint) "Revisions to the List of OCS Lease Blocks Requiring Archaeological Resource Surveys and Reports"
- Notice to Lessees No. 2009-G40 "Deepwater Benthic Communities"
- Notice to Lessees No. 2009-G39 "Biologically-Sensitive Underwater Features and Areas"
- Notice to Lessees No. 2008-G04 "Information Requirements for Exploration Plans and Development Operations Coordination Documents"
- Notice to Lessees No. 2008-G05 "Shallow Hazards Program"
- Notice to Lessees No. 2005-G07 "Archaeological Resource Surveys and Reports"