

APPENDIX I

FORMS BOEM-0137

OCS PLAN INFORMATION FORM

General Information									
Type of OCS Plan:		Exploration Plan (EP)		Development Operations Coordination Document (DOCD)					
Company Name: Hilcorp Alaska, LLC				BOEM Operator Number:					
Address:				Contact Person: Kathryn Kaufman					
3800 Centerpoint Drive, Suite 1400				Phone Number: 907-777-8329					
Anchorage, AK 99503				E-Mail Address: kkaufman@hilcorp.com					
If a service fee is required under 30 CFR 550.125(a), provide the (\$4,238 x 10 wells) =				Amount paid		\$42,380		Receipt No. 25J1B0AH	
Project and Worst Case Discharge (WCD) Information									
Lease(s): OCS-Y1585, OCS-Y1650		Area: NR 06-03		Block(s): 208		Project Name (If Applicable): Liberty Drilling Island (LDI)			
Objective(s)		<input checked="" type="checkbox"/> Oil		<input type="checkbox"/> Gas		<input type="checkbox"/> Sulphur		<input type="checkbox"/> Salt	
Platform/Well Name: LDI		Total Volume of WCD: 91,219 bpd				API Gravity: 27°			
Distance to Closest Land (Miles): ~ 5 miles				Volume from uncontrolled blowout: 91,219 bpd					
Have you previously provided information to verify the calculations and assumptions for your WCD?								<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
If so, provide the Control Number of the EP or DOCD with which this information was provided									
Do you propose to use new or unusual technology to conduct your activities?								<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Do you propose to use a vessel with anchors to install or modify a structure?								<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Do you propose any facility that will serve as a host facility for deepwater subsea development?								<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Description of Proposed Activities and Tentative Schedule (Mark all that apply)									
Proposed Activity				Start Date		End Date		No. of Days	
Exploration drilling				N/A		N/A		N/A	
Development drilling				January 2019		July 2021		~600	
Well completion				January 2019		July 2021		~600	
Well test flaring (for more than 48 hours)				N/A		N/A		N/A	
Installation or modification of structure				January 2018		September 2018		~240	
Installation of production facilities				July 2018		May 2020		~700	
Installation of subsea wellheads and/or manifolds				N/A		N/A		N/A	
Installation of lease term pipelines				January 2019		May 2019		N/A	
Commence production				January 2020		January 2040			
Other (Specify and attach description)				See DPP					
Description of Drilling Rig					Description of Structure				
<input type="checkbox"/> Jackup		<input type="checkbox"/> Drillship			<input type="checkbox"/> Caisson		<input type="checkbox"/> Tension leg platform		
<input type="checkbox"/> Gorilla Jackup		<input type="checkbox"/> Platform rig			<input type="checkbox"/> Fixed platform		<input type="checkbox"/> Compliant tower		
<input type="checkbox"/> Semisubmersible		<input type="checkbox"/> Submersible			<input type="checkbox"/> Spar		<input type="checkbox"/> Guyed tower		
<input type="checkbox"/> DP Semisubmersible		<input checked="" type="checkbox"/> Other (Attach Description)			<input type="checkbox"/> Floating production system		<input type="checkbox"/> Other (Attach Description)		
Drilling Rig Name (If Known): Land Based Drill Rig					X - Gravel Island (See DPP)				
Description of Lease Term Pipelines									
From (Facility/Area/Block)		To (Facility/Area/Block)		Diameter (Inches)		Length (Feet)			
LDPI		Badami Pipeline		12"		37,805'			

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): Slot 1				Previously reviewed under an approved EP or DOCD?		Yes		No	
Is this an existing well or structure?		Yes		No		X		No	
If this is an existing well or structure, list the Complex ID or API No.				N/A					
Do you plan to use a subsea BOP or a surface BOP on a floating facility to conduct your proposed activities?						Yes		No	
WCD info		For wells, volume of uncontrolled blowout (Bbls/day): 90,544 bpd		For structures, volume of all storage and pipelines (Bbls):		API Gravity of fluid		27°	
Surface Location		Bottom-Hole Location (For Wells)		Completion (For multiple completions, enter separate lines)					
Lease No.		OCS Y1650		OCS Y1650		OCS Y1650 OCS			
Area Name		Beechey Point, NR 06-03		Beechey Point, NR 06-03		Beechey Point, NR 06-03			
Block No.		6820		6870		6870			
Blockline Departures (in feet)		N/S Departure: F <u> S </u> L 4829		N/S Departure: F <u> N </u> L 734		N/S Departure: F <u> N </u> L N/S Departure: F <u> </u> L N/S Departure: F <u> </u> L			
		E/W Departure: F <u> E </u> L 9023		E/W Departure: F <u> E </u> L 7807		E/W Departure: F <u> E </u> L E/W Departure: F <u> </u> L E/W Departure: F <u> </u> L			
Lambert X-Y coordinates		X: 1444783.741		X: 1445908.49		X: X: 1445802.34 X:			
		Y: 5952626.53		Y: 5947041.87		Y: Y: 5947568.93 Y:			
Latitude/ Longitude		Latitude 70.275228		Latitude 70.260055		Latitude Latitude 70.261487 Latitude			
		Longitude -147.582719		Longitude -147.572457		Longitude Longitude -147.573425 Longitude			
Water Depth (Feet): 19				MD (Feet): 11,456		TVD (Feet): 9,818		MD (Feet): MD (Feet): MD (Feet):	
Anchor Radius (if applicable) in feet:				N/A		TVD (Feet): TVD (Feet): TVD (Feet):			
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				
N/A	N/A	N/A	X = N/A	Y = N/A	N/A				
			X =	Y =					
			X =	Y =					
			X =	Y =					
			X =	Y =					
			X =	Y =					
			X =	Y =					

OCS PLAN INFORMATION FORM (CONTINUED)

Provide the following information for the well with the highest Worst Case Discharge volume:

Worst Case Discharge (WCD) Well Information							
WCD Well Name	Surface Lease	Surface Area/Block	Bottom Lease	Bottom Area/Block	Product Type	MD	TVD
	OCS-Y1650	NR 06-03/6820B	OCS-Y1650	NR 06-03/6820B	Crude Oil	13,763	11,600

Analog Well(s)			
Area/Block	OCS Lease	Well No.	API No.
NR 06-03/6820B	OCS-Y1650	Liberty #1	55-201-00009-00

Geologic Data for WCD

Open Hole Interval for WCD	
Top (TVD in feet)	Base (TVD in feet)
10,670'	11,600'

	Sand 1	Sand 2	Sand 3	Sand 4	Sand 5
Formation Data					
Sand Name	Kekikutuk				
Estimated Top TVD	10,670 ft				
Estimated Base TVD	10,985 ft				
Estimated Net Sand Height MD (Net Pay if hydrocarbon)	314				
Estimated Net Sand Height TVT (Net Pay if hydrocarbon)	250				
Fluid Type	Oil				
Used in WCD? (Yes/No)	Yes				

Seismic Survey Used	

Engineering Data for WCD

WCD Engineering Items									
WCD (STB/Day)	91,219 bbl/day								
WCD Calculated at	Mudline	Yes	No		Atmosphere	Yes	x	No	
Flow Correlation	Beggs and Brill								
Outlet Pressure (Psia)	50 psia								
Gas Turbulence Factor									
Software Model Used	CMG Reservoir Simulator								

	Sand 1	Sand 2	Sand 3	Sand 4	Sand 5
Formation Data					
Sand Name	Kekikutuk				
Permeability (mD)	500-1500				
Initial Pressure (PSIA)	5190				

OCS PLAN INFORMATION FORM (CONTINUED)

	Sand 1	Sand 2	Sand 3	Sand 4	Sand 5
Formation Data					
Reservoir Temperature (F)	223				
Porosity (0.00)	18-20%				
Water Saturation (0.00)	5%				
Rock Compressibility (microsips)	5e-6				
Water Salinity (ppm)					
Drive Mechanism	Solution Gas Drive				
Drainage Area (acres)					
Oil Reservoir Data					
Bubble Point Pressure (PSIA)	4973				
Initial Bo (RB/STB)	1.47				
Bo (RB/STB) @ Bubble Point	1.474				
Rsi (SCF/STB)	941				
Initial Oil Viscosity (Cp)	.68				
Oil Viscosity (CP) @ Bubble Point	.68				
Oil Compressibility (1/PSIA)	1e-5				
Oil API Gravity (API)	27				
Specific Gas Gravity (0.00)	.789				
Gas Reservoir Data					
Condensate API Gravity (API)					
Specific Gas Gravity (0.00)					
Yield (STB/MMCF)					

Source of Permeability Used			
Permeability from MDT	x		
Permeability from Core Analysis	Percussion core	Rotary sidewall core	Conventional core X
Pressure Transient Analysis			
Permeability from CMR or NMR log analysis			
Permeability from other source			

Provide Model Input Values for Relative Permeability:	
Residual Oil to Gas fraction (=1-Slc-Swc)	.69
Residual Oil to Water fraction (=Soc)	.12
Critical Gas fraction (Sgc, Gas/Oil-Water Systems)	.07
Residual Gas to Water fraction (Sgc, Gas/Gas-Water Systems)	
Kro Oil Curve Endpoint (fraction of absolute permeability)	1
Krg Gas Curve Endpoint (fraction of absolute permeability)	.8
Krw Water Curve Endpoint (fraction of absolute permeability)	.77

Paperwork Reduction Act of 1995 Statement: The Paperwork Reduction Act of 1995 (44 U.S.C. 2501 et seq.) requires us to inform you that BOEM collects this information as part of an applicant's Exploration Plan or Development Operations Coordination Document submitted for BOEM approval. We use the information to facilitate our review and data entry for OCS plans. We will protect proprietary data according to the Freedom of Information Act and 30 CFR 550.197. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid Office of Management and Budget Control Number. Responses are mandatory (43 U.S.C. 1334). The public reporting burden for this form is included in the burden for preparing Exploration Plans and Development Operations Coordination Documents. We estimate that burden to average 600 hours with an accompanying EP, or 700 hours with an accompanying DPP or DOCD, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the forms associated with subpart B. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Bureau of Ocean Energy Management, 381 Elden Street, Herndon, VA 20170.

OCS PLAN INFORMATION FORM

General Information									
Type of OCS Plan:		Exploration Plan (EP)		Development Operations Coordination Document (DOCD)					
Company Name: Hilcorp Alaska, LLC				BOEM Operator Number:					
Address:				Contact Person: Kathryn Kaufman					
3800 Centerpoint Drive, Suite 1400				Phone Number: 907-777-8329					
Anchorage, AK 99503				E-Mail Address: kkaufman@hilcorp.com					
If a service fee is required under 30 CFR 550.125(a), provide the (\$4,238 x 10 wells) =				Amount paid		\$42,380		Receipt No. 25J1B0AH	
Project and Worst Case Discharge (WCD) Information									
Lease(s): OCS-Y1585, OCS-Y1650		Area: NR 06-03		Block(s): 208		Project Name (If Applicable): Liberty Drilling Island (LDI)			
Objective(s)		<input checked="" type="checkbox"/> Oil		<input type="checkbox"/> Gas		<input type="checkbox"/> Sulphur		<input type="checkbox"/> Salt	
Platform/Well Name: LDI		Total Volume of WCD: 91,219 bpd				API Gravity: 27°			
Distance to Closest Land (Miles): ~ 5 miles				Volume from uncontrolled blowout: 91,219 bpd					
Have you previously provided information to verify the calculations and assumptions for your WCD?								Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
If so, provide the Control Number of the EP or DOCD with which this information was provided									
Do you propose to use new or unusual technology to conduct your activities?								Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Do you propose to use a vessel with anchors to install or modify a structure?								Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Do you propose any facility that will serve as a host facility for deepwater subsea development?								Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Description of Proposed Activities and Tentative Schedule (Mark all that apply)									
Proposed Activity				Start Date		End Date		No. of Days	
Exploration drilling				N/A		N/A		N/A	
Development drilling				January 2019		July 2021		~600	
Well completion				January 2019		July 2021		~600	
Well test flaring (for more than 48 hours)				N/A		N/A		N/A	
Installation or modification of structure				January 2018		September 2018		~240	
Installation of production facilities				July 2018		May 2020		~700	
Installation of subsea wellheads and/or manifolds				N/A		N/A		N/A	
Installation of lease term pipelines				January 2019		May 2019		N/A	
Commence production				January 2020		January 2040			
Other (Specify and attach description)				See DPP					
Description of Drilling Rig				Description of Structure					
<input type="checkbox"/> Jackup		<input type="checkbox"/> Drillship		<input type="checkbox"/> Caisson		<input type="checkbox"/> Tension leg platform			
<input type="checkbox"/> Gorilla Jackup		<input type="checkbox"/> Platform rig		<input type="checkbox"/> Fixed platform		<input type="checkbox"/> Compliant tower			
<input type="checkbox"/> Semisubmersible		<input type="checkbox"/> Submersible		<input type="checkbox"/> Spar		<input type="checkbox"/> Guyed tower			
<input type="checkbox"/> DP Semisubmersible		<input checked="" type="checkbox"/> Other (Attach Description)		<input type="checkbox"/> Floating production system		<input type="checkbox"/> Other (Attach Description)			
Drilling Rig Name (If Known): Land Based Drill Rig				X - Gravel Island (See DPP)					
Description of Lease Term Pipelines									
From (Facility/Area/Block)		To (Facility/Area/Block)		Diameter (Inches)		Length (Feet)			
LDPI		Badami Pipeline		12"		37,805'			

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): Slot 2				Previously reviewed under an approved EP or DOCD?		Yes		No	
Is this an existing well or structure?		Yes		No		If this is an existing well or structure, list the Complex ID or API No.			
				X		N/A			
Do you plan to use a subsea BOP or a surface BOP on a floating facility to conduct your proposed activities?						Yes		No	
				X					
WCD info		For wells, volume of uncontrolled blowout (Bbls/day): 90,544		For structures, volume of all storage and pipelines (Bbls):		API Gravity of fluid		27°	
		Surface Location		Bottom-Hole Location (For Wells)		Completion (For multiple completions, enter separate lines)			
Lease No.		OCS OCS-Y1650		OCS OCS-Y1650		OCS -Y1650 OCS -			
Area Name		Beechey Point, NR 06-03		Beechey Point, NR 06-03		Beechey Point, NR 06-03			
Block No.		6820		6820		6820			
Blockline Departures (in feet)		N/S Departure: F <u> </u> S <u> </u> L <u> </u>		N/S Departure: F <u> </u> S <u> </u> L <u> </u>		N/S Departure: F <u> </u> S <u> </u> L <u> </u>			
		4833		934					
		E/W Departure: F <u> </u> E <u> </u> L <u> </u>		E/W Departure: F <u> </u> E <u> </u> L <u> </u>		E/W Departure: F <u> </u> E <u> </u> L <u> </u>			
		9037		11323					
Lambert X-Y coordinates		X: 1444769.24		X: 1442419.23		X: 1442651.19			
		Y: 5952630.41		Y: 5948768.52		Y: 5949149.71			
Latitude/Longitude		Latitude 70.275238		Latitude 70.264522		Latitude 70.2655803			
		Longitude -147.582838		Longitude -147.60102		Longitude -147.5992254			
Water Depth (Feet): 19				MD (Feet): 10,921		TVD (Feet): 9,870		MD (Feet): MD (Feet):	
Anchor Radius (if applicable) in feet:				N/A		TVD (Feet): TVD (Feet):		TVD (Feet): TVD (Feet):	
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				
N/A	N/A	N/A	X = N/A	Y = N/A	N/A				
			X =	Y =					
			X =	Y =					
			X =	Y =					
			X =	Y =					
			X =	Y =					
			X =	Y =					
			X =	Y =					

OCS PLAN INFORMATION FORM (CONTINUED)

Provide the following information for the well with the highest Worst Case Discharge volume:

Worst Case Discharge (WCD) Well Information							
WCD Well Name	Surface Lease	Surface Area/Block	Bottom Lease	Bottom Area/Block	Product Type	MD	TVD
	OCS-Y1650	NR 06-03/6820B	OCS-Y1650	NR 06-03/6820B	Crude Oil	13,763	11,600

Analog Well(s)			
Area/Block	OCS Lease	Well No.	API No.
NR 06-03/6820B	OCS-Y1650	Liberty #1	55-201-00009-00

Geologic Data for WCD

Open Hole Interval for WCD	
Top (TVD in feet)	Base (TVD in feet)
10,670'	11,600'

	Sand 1	Sand 2	Sand 3	Sand 4	Sand 5
Formation Data					
Sand Name	Kekikutuk				
Estimated Top TVD	10,670 ft				
Estimated Base TVD	10,985 ft				
Estimated Net Sand Height MD (Net Pay if hydrocarbon)	314				
Estimated Net Sand Height TVT (Net Pay if hydrocarbon)	250				
Fluid Type	Oil				
Used in WCD? (Yes/No)	Yes				

Seismic Survey Used	

Engineering Data for WCD

WCD Engineering Items									
WCD (STB/Day)	91,219 bbl/day								
WCD Calculated at	Mudline	Yes	No		Atmosphere	Yes	x	No	
Flow Correlation	Beggs and Brill								
Outlet Pressure (Psia)	14.7 psia								
Gas Turbulence Factor									
Software Model Used	CMG Reservoir Simulator								

	Sand 1	Sand 2	Sand 3	Sand 4	Sand 5
Formation Data					
Sand Name	Kekikutuk				
Permeability (mD)	500-1500				
Initial Pressure (PSIA)	5190				

OCS PLAN INFORMATION FORM (CONTINUED)

	Sand 1	Sand 2	Sand 3	Sand 4	Sand 5
Formation Data					
Reservoir Temperature (F)	223				
Porosity (0.00)	18-20%				
Water Saturation (0.00)	5%				
Rock Compressibility (microsips)	5e-6				
Water Salinity (ppm)					
Drive Mechanism	Solution Gas Drive				
Drainage Area (acres)					
Oil Reservoir Data					
Bubble Point Pressure (PSIA)	4973				
Initial Bo (RB/STB)	1.47				
Bo (RB/STB) @ Bubble Point	1.474				
Rsi (SCF/STB)	941				
Initial Oil Viscosity (Cp)	.68				
Oil Viscosity (CP) @ Bubble Point	.68				
Oil Compressibility (1/PSIA)	1e-5				
Oil API Gravity (API)	27				
Specific Gas Gravity (0.00)	.789				
Gas Reservoir Data					
Condensate API Gravity (API)					
Specific Gas Gravity (0.00)					
Yield (STB/MMCF)					

Source of Permeability Used			
Permeability from MDT	x		
Permeability from Core Analysis	Percussion core	Rotary sidewall core	Conventional core X
Pressure Transient Analysis			
Permeability from CMR or NMR log analysis			
Permeability from other source			

Provide Model Input Values for Relative Permeability:	
Residual Oil to Gas fraction (=1-Slc-Swc)	.69
Residual Oil to Water fraction (=Soc)	.12
Critical Gas fraction (Sgc, Gas/Oil-Water Systems)	.07
Residual Gas to Water fraction (Sgc, Gas/Gas-Water Systems)	
Kro Oil Curve Endpoint (fraction of absolute permeability)	1
Krg Gas Curve Endpoint (fraction of absolute permeability)	.8
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General Information									
Type of OCS Plan:		Exploration Plan (EP)		Development Operations Coordination Document (DOCD)					
Company Name: Hilcorp Alaska, LLC				BOEM Operator Number:					
Address:				Contact Person: Kathryn Kaufman					
3800 Centerpoint Drive, Suite 1400				Phone Number: 907-777-8329					
Anchorage, AK 99503				E-Mail Address: kkaufman@hilcorp.com					
If a service fee is required under 30 CFR 550.125(a), provide the (\$4,238 x 10 wells) =				Amount paid		\$42,380		Receipt No. 25J1B0AH	
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Lease(s): OCS-Y1585, OCS-Y1650		Area: NR 06-03		Block(s): 208		Project Name (If Applicable): Liberty Drilling Island (LDI)			
Objective(s)		<input checked="" type="checkbox"/> Oil		<input type="checkbox"/> Gas		<input type="checkbox"/> Sulphur		<input type="checkbox"/> Salt	
Onshore Support Base(s): Endicott SDI									
Platform/Well Name: LDI		Total Volume of WCD: 91,219 bpd				API Gravity: 27°			
Distance to Closest Land (Miles): ~ 5 miles				Volume from uncontrolled blowout: 91,219 bpd					
Have you previously provided information to verify the calculations and assumptions for your WCD?								Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
If so, provide the Control Number of the EP or DOCD with which this information was provided									
Do you propose to use new or unusual technology to conduct your activities?								Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Do you propose to use a vessel with anchors to install or modify a structure?								Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Do you propose any facility that will serve as a host facility for deepwater subsea development?								Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Description of Proposed Activities and Tentative Schedule (Mark all that apply)									
Proposed Activity				Start Date		End Date		No. of Days	
Exploration drilling				N/A		N/A		N/A	
Development drilling				January 2019		July 2021		~600	
Well completion				January 2019		July 2021		~600	
Well test flaring (for more than 48 hours)				N/A		N/A		N/A	
Installation or modification of structure				January 2018		September 2018		~240	
Installation of production facilities				July 2018		May 2020		~700	
Installation of subsea wellheads and/or manifolds				N/A		N/A		N/A	
Installation of lease term pipelines				January 2019		May 2019		N/A	
Commence production				January 2020		January 2039			
Other (Specify and attach description)				See DPP					
Description of Drilling Rig				Description of Structure					
Jackup				Drillship				Tension leg platform	
Gorilla Jackup				Platform rig				Compliant tower	
Semisubmersible				Submersible				Guyed tower	
DP Semisubmersible		<input checked="" type="checkbox"/>		Other (Attach Description)				Other (Attach Description)	
Drilling Rig Name (If Known): Land Based Drill Rig				Floating production system				X - Gravel Island (See DPP)	
Description of Lease Term Pipelines									
From (Facility/Area/Block)		To (Facility/Area/Block)		Diameter (Inches)		Length (Feet)			
LDPI		Badami Pipeline		12"		37,805'			

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): Slot 3				Previously reviewed under an approved EP or DOCD?		Yes		No	
Is this an existing well or structure?		Yes		No		X		No	
If this is an existing well or structure, list the Complex ID or API No.				N/A					
Do you plan to use a subsea BOP or a surface BOP on a floating facility to conduct your proposed activities?						Yes		No	
WCD info		For wells, volume of uncontrolled blowout (Bbls/day): 90,544		For structures, volume of all storage and pipelines (Bbls):		API Gravity of fluid		27°	
Surface Location		Bottom-Hole Location (For Wells)		Completion (For multiple completions, enter separate lines)					
Lease No.		OCS OCS-Y1650		OCS OCS-Y1650		OCS -Y1650 OCS -			
Area Name		Beechey Point, NR 06-03		Beechey Point, NR 06-03		Beechey Point, NR 06-03			
Block No.		6820		6820		6820			
Blockline Departures (in feet)		N/S Departure: F <u> </u> S <u> </u> L <u> </u> 4837		N/S Departure: F <u> </u> N <u> </u> L <u> </u> 3778		N/S Departure: F <u> </u> N <u> </u> L <u> </u> N/S Departure: F <u> </u> <u> </u> L <u> </u> N/S Departure: F <u> </u> <u> </u> L <u> </u>			
		E/W Departure: F <u> </u> E <u> </u> L <u> </u> 9052		E/W Departure: F <u> </u> E <u> </u> L <u> </u> 13809		E/W Departure: F <u> </u> E <u> </u> L <u> </u> E/W Departure: F <u> </u> <u> </u> L <u> </u> E/W Departure: F <u> </u> <u> </u> L <u> </u>			
Lambert X-Y coordinates		X: 1444754.74		X: 1440113.76		X: 1440460.83 X: X:			
		Y: 5952634.34		Y: 5959853.71		Y: 595313.83 Y: Y:			
Latitude/ Longitude		Latitude 70.275248		Latitude 70.294632		Latitude 70.2931826 Latitude Latitude			
		Longitude -147.582956		Longitude -147.622040		Longitude -147.619114 Longitude Longitude			
Water Depth (Feet): 19				MD (Feet): 14,279		TVD (Feet): 11,207		MD (Feet): MD (Feet): MD (Feet):	
Anchor Radius (if applicable) in feet:				N/A		TVD (Feet): TVD (Feet): TVD (Feet):			
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				
N/A	N/A	N/A	X = N/A	Y = N/A	N/A				
			X =	Y =					
			X =	Y =					
			X =	Y =					
			X =	Y =					
			X =	Y =					
			X =	Y =					
			X =	Y =					

OCS PLAN INFORMATION FORM (CONTINUED)

Provide the following information for the well with the highest Worst Case Discharge volume:

Worst Case Discharge (WCD) Well Information							
WCD Well Name	Surface Lease	Surface Area/Block	Bottom Lease	Bottom Area/Block	Product Type	MD	TVD
	OCS-Y1650	NR 06-03/6820B	OCS-Y1650	NR 06-03/6820B	Crude Oil	13,763	11,600

Analog Well(s)			
Area/Block	OCS Lease	Well No.	API No.
NR 06-03/6820B	OCS-Y1650	Liberty #1	55-201-00009-00

Geologic Data for WCD

Open Hole Interval for WCD	
Top (TVD in feet)	Base (TVD in feet)
10,670'	11,600'

	Sand 1	Sand 2	Sand 3	Sand 4	Sand 5
Formation Data					
Sand Name	Kekikutuk				
Estimated Top TVD	10,670 ft				
Estimated Base TVD	10,985 ft				
Estimated Net Sand Height MD (Net Pay if hydrocarbon)	314				
Estimated Net Sand Height TVT (Net Pay if hydrocarbon)	250				
Fluid Type	Oil				
Used in WCD? (Yes/No)	Yes				

Seismic Survey Used	

Engineering Data for WCD

WCD Engineering Items									
WCD (STB/Day)	91,219 bbl/day								
WCD Calculated at	Mudline	Yes	No		Atmosphere	Yes	x	No	
Flow Correlation	Beggs and Brill								
Outlet Pressure (Psia)	50 psia								
Gas Turbulence Factor									
Software Model Used	CMG Reservoir Simulator								

	Sand 1	Sand 2	Sand 3	Sand 4	Sand 5
Formation Data					
Sand Name	Kekikutuk				
Permeability (mD)	500-1500				
Initial Pressure (PSIA)	5190				

OCS PLAN INFORMATION FORM (CONTINUED)

	Sand 1	Sand 2	Sand 3	Sand 4	Sand 5
Formation Data					
Reservoir Temperature (F)	223				
Porosity (0.00)	18-20%				
Water Saturation (0.00)	5%				
Rock Compressibility (microsips)	5e-6				
Water Salinity (ppm)					
Drive Mechanism	Solution Gas Drive				
Drainage Area (acres)					
Oil Reservoir Data					
Bubble Point Pressure (PSIA)	4973				
Initial Bo (RB/STB)	1.47				
Bo (RB/STB) @ Bubble Point	1.474				
Rsi (SCF/STB)	941				
Initial Oil Viscosity (Cp)	.68				
Oil Viscosity (CP) @ Bubble Point	.68				
Oil Compressibility (1/PSIA)	1e-5				
Oil API Gravity (API)	27				
Specific Gas Gravity (0.00)	.789				
Gas Reservoir Data					
Condensate API Gravity (API)					
Specific Gas Gravity (0.00)					
Yield (STB/MMCF)					

Source of Permeability Used			
Permeability from MDT	x		
Permeability from Core Analysis	Percussion core	Rotary sidewall core	Conventional core X
Pressure Transient Analysis			
Permeability from CMR or NMR log analysis			
Permeability from other source			

Provide Model Input Values for Relative Permeability:	
Residual Oil to Gas fraction (=1-Slc-Swc)	.69
Residual Oil to Water fraction (=Soc)	.12
Critical Gas fraction (Sgc, Gas/Oil-Water Systems)	.07
Residual Gas to Water fraction (Sgc, Gas/Gas-Water Systems)	
Kro Oil Curve Endpoint (fraction of absolute permeability)	1
Krg Gas Curve Endpoint (fraction of absolute permeability)	.8
Krw Water Curve Endpoint (fraction of absolute permeability)	.77

Paperwork Reduction Act of 1995 Statement: The Paperwork Reduction Act of 1995 (44 U.S.C. 2501 et seq.) requires us to inform you that BOEM collects this information as part of an applicant's Exploration Plan or Development Operations Coordination Document submitted for BOEM approval. We use the information to facilitate our review and data entry for OCS plans. We will protect proprietary data according to the Freedom of Information Act and 30 CFR 550.197. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid Office of Management and Budget Control Number. Responses are mandatory (43 U.S.C. 1334). The public reporting burden for this form is included in the burden for preparing Exploration Plans and Development Operations Coordination Documents. We estimate that burden to average 600 hours with an accompanying EP, or 700 hours with an accompanying DPP or DOCD, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the forms associated with subpart B. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Bureau of Ocean Energy Management, 381 Elden Street, Herndon, VA 20170.

OCS PLAN INFORMATION FORM

General Information									
Type of OCS Plan:		Exploration Plan (EP)		Development Operations Coordination Document (DOCD)					
Company Name: Hilcorp Alaska, LLC				BOEM Operator Number:					
Address:				Contact Person: Kathryn Kaufman					
3800 Centerpoint Drive, Suite 1400				Phone Number: 907-777-8329					
Anchorage, AK 99503				E-Mail Address: kkaufman@hilcorp.com					
If a service fee is required under 30 CFR 550.125(a), provide the (\$4,238 x 10 wells) =				Amount paid		\$42,380		Receipt No. 25J1B0AH	
Project and Worst Case Discharge (WCD) Information									
Lease(s): OCS-Y1585, OCS-Y1650		Area: NR 06-03		Block(s): 208		Project Name (If Applicable): Liberty Drilling Island (LDI)			
Objective(s)		<input checked="" type="checkbox"/> Oil		<input type="checkbox"/> Gas		<input type="checkbox"/> Sulphur		<input type="checkbox"/> Salt	
Platform/Well Name: LDI		Total Volume of WCD: 91,219 bpd				API Gravity: 27°			
Distance to Closest Land (Miles): ~ 5 miles				Volume from uncontrolled blowout: 91,219 bpd					
Have you previously provided information to verify the calculations and assumptions for your WCD?								Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
If so, provide the Control Number of the EP or DOCD with which this information was provided									
Do you propose to use new or unusual technology to conduct your activities?								Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Do you propose to use a vessel with anchors to install or modify a structure?								Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Do you propose any facility that will serve as a host facility for deepwater subsea development?								Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Description of Proposed Activities and Tentative Schedule (Mark all that apply)									
Proposed Activity				Start Date		End Date		No. of Days	
Exploration drilling				N/A		N/A		N/A	
Development drilling				January 2019		July 2021		~600	
Well completion				January 2019		July 2021		~600	
Well test flaring (for more than 48 hours)				N/A		N/A		N/A	
Installation or modification of structure				January 2018		September 2018		~240	
Installation of production facilities				July 2018		May 2020		~700	
Installation of subsea wellheads and/or manifolds				N/A		N/A		N/A	
Installation of lease term pipelines				January 2019		May 2019		N/A	
Commence production				January 2020		January 2039			
Other (Specify and attach description)				See DPP					
Description of Drilling Rig					Description of Structure				
<input type="checkbox"/> Jackup		<input type="checkbox"/> Drillship			<input type="checkbox"/> Caisson		<input type="checkbox"/> Tension leg platform		
<input type="checkbox"/> Gorilla Jackup		<input type="checkbox"/> Platform rig			<input type="checkbox"/> Fixed platform		<input type="checkbox"/> Compliant tower		
<input type="checkbox"/> Semisubmersible		<input type="checkbox"/> Submersible			<input type="checkbox"/> Spar		<input type="checkbox"/> Guyed tower		
<input type="checkbox"/> DP Semisubmersible		<input checked="" type="checkbox"/> Other (Attach Description)			<input type="checkbox"/> Floating production system		<input type="checkbox"/> Other (Attach Description)		
Drilling Rig Name (If Known): Land Based Drill Rig					X - Gravel Island (See DPP)				
Description of Lease Term Pipelines									
From (Facility/Area/Block)		To (Facility/Area/Block)		Diameter (Inches)		Length (Feet)			
LDPI		Badami Pipeline		12"		37,805'			

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): Slot 4				Previously reviewed under an approved EP or DOCD?		Yes		No	
Is this an existing well or structure?		Yes		No		X		No	
If this is an existing well or structure, list the Complex ID or API No.				N/A					
Do you plan to use a subsea BOP or a surface BOP on a floating facility to conduct your proposed activities?						Yes		No	
WCD info		For wells, volume of uncontrolled blowout (Bbls/day): 90,544		For structures, volume of all storage and pipelines (Bbls):		API Gravity of fluid		27°	
Surface Location			Bottom-Hole Location (For Wells)			Completion (For multiple completions, enter separate lines)			
Lease No.		OCS OCS-Y1650		OCS OCS-Y1650		OCS -Y1650 OCS -			
Area Name		Beechey Point, NR 06-03		Beechey Point, NR 06-03		Beechey Point, NR 06-03			
Block No.		6820		6820		6820			
Blockline Departures (in feet)		N/S Departure: F <u> S </u> L 4840		N/S Departure: F <u> N </u> L 6263		N/S Departure: F <u> N </u> L N/S Departure: F <u> </u> L N/S Departure: F <u> </u> L			
		E/W Departure: F <u> E </u> L 9067		E/W Departure: F <u> E </u> L 8933		E/W Departure: F <u> E </u> L E/W Departure: F <u> </u> L E/W Departure: F <u> </u> L			
Lambert X-Y coordinates		X: 1444740.25		X: 1444950.78		X: 1444932.48 X: X:			
		Y: 5952638.26		Y: 5957286.86		Y: 5956882.65 Y: Y:			
Latitude/ Longitude		Latitude 70.275258		Latitude 70.287969		Latitude 70.286863 Latitude Latitude			
		Longitude -147.583074		Longitude -147.582349		Longitude -147.582412 Longitude Longitude			
Water Depth (Feet): 19				MD (Feet): 12,644		TVD (Feet): 11,669		MD (Feet): MD (Feet): MD (Feet):	
Anchor Radius (if applicable) in feet:				N/A		TVD (Feet): TVD (Feet): TVD (Feet):			
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				
N/A	N/A	N/A	X = N/A	Y = N/A	N/A				
			X =	Y =					
			X =	Y =					
			X =	Y =					
			X =	Y =					
			X =	Y =					
			X =	Y =					
			X =	Y =					

OCS PLAN INFORMATION FORM (CONTINUED)

Provide the following information for the well with the highest Worst Case Discharge volume:

Worst Case Discharge (WCD) Well Information							
WCD Well Name	Surface Lease	Surface Area/Block	Bottom Lease	Bottom Area/Block	Product Type	MD	TVD
	OCS-Y1650	NR 06-03/6820B	OCS-Y1650	NR 06-03/6820B	Crude Oil	13,763	11,600

Analog Well(s)			
Area/Block	OCS Lease	Well No.	API No.
NR 06-03/6820B	OCS-Y1650	Liberty #1	55-201-00009-00

Geologic Data for WCD

Open Hole Interval for WCD	
Top (TVD in feet)	Base (TVD in feet)
10,670'	10,600'

	Sand 1	Sand 2	Sand 3	Sand 4	Sand 5
Formation Data					
Sand Name	Kekikutuk				
Estimated Top TVD	10,670 ft				
Estimated Base TVD	10,985 ft				
Estimated Net Sand Height MD (Net Pay if hydrocarbon)	314				
Estimated Net Sand Height TVT (Net Pay if hydrocarbon)	250				
Fluid Type	Oil				
Used in WCD? (Yes/No)	Yes				

Seismic Survey Used	

Engineering Data for WCD

WCD Engineering Items									
WCD (STB/Day)	91,219 bbl/day								
WCD Calculated at	Mudline	Yes	No		Atmosphere	Yes	x	No	
Flow Correlation	Beggs and Brill								
Outlet Pressure (Psia)	14.7 psia								
Gas Turbulence Factor									
Software Model Used	CMG Reservoir Simulator								

	Sand 1	Sand 2	Sand 3	Sand 4	Sand 5
Formation Data					
Sand Name	Kekikutuk				
Permeability (mD)	500-1500				
Initial Pressure (PSIA)	5190				

OCS PLAN INFORMATION FORM (CONTINUED)

	Sand 1	Sand 2	Sand 3	Sand 4	Sand 5
Formation Data					
Reservoir Temperature (F)	223				
Porosity (0.00)	18-20%				
Water Saturation (0.00)	5%				
Rock Compressibility (microsips)	5e-6				
Water Salinity (ppm)					
Drive Mechanism	Solution Gas Drive				
Drainage Area (acres)					
Oil Reservoir Data					
Bubble Point Pressure (PSIA)	4973				
Initial Bo (RB/STB)	1.47				
Bo (RB/STB) @ Bubble Point	1.474				
Rsi (SCF/STB)	933				
Initial Oil Viscosity (Cp)	.68				
Oil Viscosity (CP) @ Bubble Point	.68				
Oil Compressibility (1/PSIA)	1e-5				
Oil API Gravity (API)	27				
Specific Gas Gravity (0.00)	.789				
Gas Reservoir Data					
Condensate API Gravity (API)					
Specific Gas Gravity (0.00)					
Yield (STB/MMCF)					

Source of Permeability Used			
Permeability from MDT	x		
Permeability from Core Analysis	Percussion core	Rotary sidewall core	Conventional core X
Pressure Transient Analysis			
Permeability from CMR or NMR log analysis			
Permeability from other source			

Provide Model Input Values for Relative Permeability:	
Residual Oil to Gas fraction (=1-Slc-Swc)	.69
Residual Oil to Water fraction (=Soc)	.12
Critical Gas fraction (Sgc, Gas/Oil-Water Systems)	.07
Residual Gas to Water fraction (Sgc, Gas/Gas-Water Systems)	
Kro Oil Curve Endpoint (fraction of absolute permeability)	1
Krg Gas Curve Endpoint (fraction of absolute permeability)	.8
Krw Water Curve Endpoint (fraction of absolute permeability)	.77

Paperwork Reduction Act of 1995 Statement: The Paperwork Reduction Act of 1995 (44 U.S.C. 2501 et seq.) requires us to inform you that BOEM collects this information as part of an applicant's Exploration Plan or Development Operations Coordination Document submitted for BOEM approval. We use the information to facilitate our review and data entry for OCS plans. We will protect proprietary data according to the Freedom of Information Act and 30 CFR 550.197. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid Office of Management and Budget Control Number. Responses are mandatory (43 U.S.C. 1334). The public reporting burden for this form is included in the burden for preparing Exploration Plans and Development Operations Coordination Documents. We estimate that burden to average 600 hours with an accompanying EP, or 700 hours with an accompanying DPP or DOCD, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the forms associated with subpart B. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Bureau of Ocean Energy Management, 381 Elden Street, Herndon, VA 20170.

OCS PLAN INFORMATION FORM

General Information									
Type of OCS Plan:		Exploration Plan (EP)		Development Operations Coordination Document (DOCD)					
Company Name: Hilcorp Alaska, LLC				BOEM Operator Number:					
Address:				Contact Person: Kathryn Kaufman					
3800 Centerpoint Drive, Suite 1400				Phone Number: 907-777-8329					
Anchorage, AK 99503				E-Mail Address: kkaufman@hilcorp.com					
If a service fee is required under 30 CFR 550.125(a), provide the (\$4,238 x 10 wells) =				Amount paid		\$42,380		Receipt No. 25J1B0AH	
Project and Worst Case Discharge (WCD) Information									
Lease(s): OCS-Y1585, OCS-Y1650		Area: NR 06-03		Block(s): 208		Project Name (If Applicable): Liberty Drilling Island (LDI)			
Objective(s)		<input checked="" type="checkbox"/> Oil		<input type="checkbox"/> Gas		<input type="checkbox"/> Sulphur		<input type="checkbox"/> Salt	
Platform/Well Name: LDI		Total Volume of WCD: 91,219 bpd				API Gravity: 27°			
Distance to Closest Land (Miles): ~ 5 miles				Volume from uncontrolled blowout: 91,219 bpd					
Have you previously provided information to verify the calculations and assumptions for your WCD?								Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
If so, provide the Control Number of the EP or DOCD with which this information was provided									
Do you propose to use new or unusual technology to conduct your activities?								Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Do you propose to use a vessel with anchors to install or modify a structure?								Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Do you propose any facility that will serve as a host facility for deepwater subsea development?								Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Description of Proposed Activities and Tentative Schedule (Mark all that apply)									
Proposed Activity				Start Date		End Date		No. of Days	
Exploration drilling				N/A		N/A		N/A	
Development drilling				January 2019		July 2021		~600	
Well completion				January 2019		July 2021		~600	
Well test flaring (for more than 48 hours)				N/A		N/A		N/A	
Installation or modification of structure				January 2018		September 2018		~240	
Installation of production facilities				July 2018		May 2020		~700	
Installation of subsea wellheads and/or manifolds				N/A		N/A		N/A	
Installation of lease term pipelines				January 2019		May 2019		N/A	
Commence production				January 2020		January 2039			
Other (Specify and attach description)				See DPP					
Description of Drilling Rig				Description of Structure					
<input type="checkbox"/> Jackup		<input type="checkbox"/> Drillship		<input type="checkbox"/> Caisson		<input type="checkbox"/> Tension leg platform			
<input type="checkbox"/> Gorilla Jackup		<input type="checkbox"/> Platform rig		<input type="checkbox"/> Fixed platform		<input type="checkbox"/> Compliant tower			
<input type="checkbox"/> Semisubmersible		<input type="checkbox"/> Submersible		<input type="checkbox"/> Spar		<input type="checkbox"/> Guyed tower			
<input type="checkbox"/> DP Semisubmersible		<input checked="" type="checkbox"/> Other (Attach Description)		<input type="checkbox"/> Floating production system		<input type="checkbox"/> Other (Attach Description)			
Drilling Rig Name (If Known): Land Based Drill Rig				X - Gravel Island (See DPP)					
Description of Lease Term Pipelines									
From (Facility/Area/Block)		To (Facility/Area/Block)		Diameter (Inches)		Length (Feet)			
LDPI		Badami Pipeline		12"		37,805'			

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): Slot 5				Previously reviewed under an approved EP or DOCD?		Yes		No	
Is this an existing well or structure?		Yes		No		X		No	
If this is an existing well or structure, list the Complex ID or API No.				N/A					
Do you plan to use a subsea BOP or a surface BOP on a floating facility to conduct your proposed activities?						Yes		No	
WCD info		For wells, volume of uncontrolled blowout (Bbls/day): 90,544		For structures, volume of all storage and pipelines (Bbls):		API Gravity of fluid		27°	
Surface Location			Bottom-Hole Location (For Wells)			Completion (For multiple completions, enter separate lines)			
Lease No.		OCS OCS-Y1650		OCS OCS-Y1650		OCS -Y1650 OCS -			
Area Name		Beechey Point, NR 06-03		Beechey Point, NR 06-03		Beechey Point, NR 06-03			
Block No.		6820		6820		6820			
Blockline Departures (in feet)		N/S Departure: F <u> </u> S <u> </u> L <u> </u> 4844		N/S Departure: F <u> </u> S <u> </u> L <u> </u> 6555		N/S Departure: F <u> </u> S <u> </u> L <u> </u> N/S Departure: F <u> </u> L <u> </u> N/S Departure: F <u> </u> L <u> </u>			
		E/W Departure: F <u> </u> E <u> </u> L <u> </u> 9081		E/W Departure: F <u> </u> E <u> </u> L <u> </u> 4300		E/W Departure: F <u> </u> E <u> </u> L <u> </u> E/W Departure: F <u> </u> L <u> </u> E/W Departure: F <u> </u> L <u> </u>			
Lambert X-Y coordinates		X: 1444725.75		X: 1449536.60		X: 1449114.00 X: X:			
		Y: 5952642.17		Y: 5954274.76		Y: 5954131.34 Y: Y:			
Latitude/ Longitude		Latitude 70.275267		Latitude 70.280064		Latitude 70.279643 Latitude Latitude			
		Longitude -147.583192		Longitude -147.544624		Longitude -147.5480127 Longitude Longitude			
Water Depth (Feet): 19				MD (Feet): 12,809		TVD (Feet): 11,625		MD (Feet): MD (Feet): MD (Feet):	
Anchor Radius (if applicable) in feet:				N/A		TVD (Feet): TVD (Feet): TVD (Feet):			
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				
N/A	N/A	N/A	X = N/A	Y = N/A	N/A				
			X =	Y =					
			X =	Y =					
			X =	Y =					
			X =	Y =					
			X =	Y =					
			X =	Y =					
			X =	Y =					

OCS PLAN INFORMATION FORM (CONTINUED)

Provide the following information for the well with the highest Worst Case Discharge volume:

Worst Case Discharge (WCD) Well Information							
WCD Well Name	Surface Lease	Surface Area/Block	Bottom Lease	Bottom Area/Block	Product Type	MD	TVD
	OCS-Y1650	NR 06-03/6820B	OCS-Y1650	NR 06-03/6820B	Crude Oil	13,763	11,600

Analog Well(s)			
Area/Block	OCS Lease	Well No.	API No.
NR 06-03/6820B	OCS-Y1650	Liberty #1	55-201-00009-00

Geologic Data for WCD

Open Hole Interval for WCD	
Top (TVD in feet)	Base (TVD in feet)
10,670'	11,600'

	Sand 1	Sand 2	Sand 3	Sand 4	Sand 5
Formation Data					
Sand Name	Kekikutuk				
Estimated Top TVD	10,670 ft				
Estimated Base TVD	10,985 ft				
Estimated Net Sand Height MD (Net Pay if hydrocarbon)	314				
Estimated Net Sand Height TVT (Net Pay if hydrocarbon)	250				
Fluid Type	Oil				
Used in WCD? (Yes/No)	Yes				

Seismic Survey Used	

Engineering Data for WCD

WCD Engineering Items									
WCD (STB/Day)	91,219 bbl/day								
WCD Calculated at	Mudline	Yes	No		Atmosphere	Yes	x	No	
Flow Correlation	Beggs and Brill								
Outlet Pressure (Psia)	50 psia								
Gas Turbulence Factor									
Software Model Used	CMG Reservoir Simulator								

	Sand 1	Sand 2	Sand 3	Sand 4	Sand 5
Formation Data					
Sand Name	Kekikutuk				
Permeability (mD)	500-1500				
Initial Pressure (PSIA)	5190				

OCS PLAN INFORMATION FORM (CONTINUED)

	Sand 1	Sand 2	Sand 3	Sand 4	Sand 5
Formation Data					
Reservoir Temperature (F)	223				
Porosity (0.00)	18-20%				
Water Saturation (0.00)	5%				
Rock Compressibility (microsips)	5e-6				
Water Salinity (ppm)					
Drive Mechanism	Solution Gas Drive				
Drainage Area (acres)					
Oil Reservoir Data					
Bubble Point Pressure (PSIA)	4973				
Initial Bo (RB/STB)	1.47				
Bo (RB/STB) @ Bubble Point	1.474				
Rsi (SCF/STB)	941				
Initial Oil Viscosity (Cp)	.68				
Oil Viscosity (CP) @ Bubble Point	.68				
Oil Compressibility (1/PSIA)	1e-5				
Oil API Gravity (API)	27				
Specific Gas Gravity (0.00)	.789				
Gas Reservoir Data					
Condensate API Gravity (API)					
Specific Gas Gravity (0.00)					
Yield (STB/MMCF)					

Source of Permeability Used			
Permeability from MDT	x		
Permeability from Core Analysis	Percussion core	Rotary sidewall core	Conventional core X
Pressure Transient Analysis			
Permeability from CMR or NMR log analysis			
Permeability from other source			

Provide Model Input Values for Relative Permeability:	
Residual Oil to Gas fraction (=1-Slc-Swc)	.69
Residual Oil to Water fraction (=Soc)	.12
Critical Gas fraction (Sgc, Gas/Oil-Water Systems)	.07
Residual Gas to Water fraction (Sgc, Gas/Gas-Water Systems)	
Kro Oil Curve Endpoint (fraction of absolute permeability)	1
Krg Gas Curve Endpoint (fraction of absolute permeability)	.8
Krw Water Curve Endpoint (fraction of absolute permeability)	.77

Paperwork Reduction Act of 1995 Statement: The Paperwork Reduction Act of 1995 (44 U.S.C. 2501 et seq.) requires us to inform you that BOEM collects this information as part of an applicant's Exploration Plan or Development Operations Coordination Document submitted for BOEM approval. We use the information to facilitate our review and data entry for OCS plans. We will protect proprietary data according to the Freedom of Information Act and 30 CFR 550.197. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid Office of Management and Budget Control Number. Responses are mandatory (43 U.S.C. 1334). The public reporting burden for this form is included in the burden for preparing Exploration Plans and Development Operations Coordination Documents. We estimate that burden to average 600 hours with an accompanying EP, or 700 hours with an accompanying DPP or DOCD, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the forms associated with subpart B. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Bureau of Ocean Energy Management, 381 Elden Street, Herndon, VA 20170.

OCS PLAN INFORMATION FORM

General Information									
Type of OCS Plan:		Exploration Plan (EP)		Development Operations Coordination Document (DOCD)					
Company Name: Hilcorp Alaska, LLC				BOEM Operator Number:					
Address:				Contact Person: Kathryn Kaufman					
3800 Centerpoint Drive, Suite 1400				Phone Number: 907-777-8329					
Anchorage, AK 99503				E-Mail Address: kkaufman@hilcorp.com					
If a service fee is required under 30 CFR 550.125(a), provide the (\$4,238 x 10 wells) =				Amount paid		\$42,380		Receipt No. 25J1B0AH	
Project and Worst Case Discharge (WCD) Information									
Lease(s): OCS-Y1585, OCS-Y1650		Area: NR 06-03		Block(s): 208		Project Name (If Applicable): Liberty Drilling Island (LDI)			
Objective(s)		<input checked="" type="checkbox"/> Oil		<input type="checkbox"/> Gas		<input type="checkbox"/> Sulphur		<input type="checkbox"/> Salt	
Platform/Well Name: LDI		Total Volume of WCD: 91,219 bpd				API Gravity: 27°			
Distance to Closest Land (Miles): ~ 5 miles				Volume from uncontrolled blowout: 91,219 bpd					
Have you previously provided information to verify the calculations and assumptions for your WCD?								Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
If so, provide the Control Number of the EP or DOCD with which this information was provided									
Do you propose to use new or unusual technology to conduct your activities?								Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Do you propose to use a vessel with anchors to install or modify a structure?								Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Do you propose any facility that will serve as a host facility for deepwater subsea development?								Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Description of Proposed Activities and Tentative Schedule (Mark all that apply)									
Proposed Activity				Start Date		End Date		No. of Days	
Exploration drilling				N/A		N/A		N/A	
Development drilling				January 2019		July 2021		~600	
Well completion				January 2019		July 2021		~600	
Well test flaring (for more than 48 hours)				N/A		N/A		N/A	
Installation or modification of structure				January 2018		September 2018		~240	
Installation of production facilities				July 2018		May 2020		~700	
Installation of subsea wellheads and/or manifolds				N/A		N/A		N/A	
Installation of lease term pipelines				January 2019		May 2019		N/A	
Commence production				January 2020		January 2040			
Other (Specify and attach description)				See DPP					
Description of Drilling Rig					Description of Structure				
<input type="checkbox"/> Jackup		<input type="checkbox"/> Drillship			<input type="checkbox"/> Caisson		<input type="checkbox"/> Tension leg platform		
<input type="checkbox"/> Gorilla Jackup		<input type="checkbox"/> Platform rig			<input type="checkbox"/> Fixed platform		<input type="checkbox"/> Compliant tower		
<input type="checkbox"/> Semisubmersible		<input type="checkbox"/> Submersible			<input type="checkbox"/> Spar		<input type="checkbox"/> Guyed tower		
<input type="checkbox"/> DP Semisubmersible		<input checked="" type="checkbox"/> Other (Attach Description)			<input type="checkbox"/> Floating production system		<input type="checkbox"/> Other (Attach Description)		
Drilling Rig Name (If Known): Land Based Drill Rig					X - Gravel Island (See DPP)				
Description of Lease Term Pipelines									
From (Facility/Area/Block)		To (Facility/Area/Block)		Diameter (Inches)		Length (Feet)			
LDPI		Badami Pipeline		12"		37,805'			

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): Slot 6				Previously reviewed under an approved EP or DOCD?		Yes		No	
Is this an existing well or structure?		Yes		No		If this is an existing well or structure, list the Complex ID or API No.		N/A	
Do you plan to use a subsea BOP or a surface BOP on a floating facility to conduct your proposed activities?						Yes		No	
WCD info		For wells, volume of uncontrolled blowout (Bbbls/day): 90,544		For structures, volume of all storage and pipelines (Bbbls):		API Gravity of fluid		27°	
Surface Location			Bottom-Hole Location (For Wells)			Completion (For multiple completions, enter separate lines)			
Lease No.		OCS OCS-Y1650		OCS OCS-Y1650		OCS -Y1650 OCS -			
Area Name		Beechey Point, NR 06-03		Beechey Point, NR 06-03		Beechey Point, NR 06-03			
Block No.		6820		6820		6820			
Blockline Departures (in feet)		N/S Departure: F <u> S </u> L		N/S Departure: F <u> S </u> L		N/S Departure: F <u> S </u> L			
		4848		2342		N/S Departure: F <u> </u> L			
		E/W Departure: F <u> E </u> L		E/W Departure: F <u> W </u> L		E/W Departure: F <u> W </u> L			
		9096		1103		E/W Departure: F <u> </u> L			
Lambert X-Y coordinates		X: 1444711.25		X: 1454871.79		X: 1454155.79			
		Y: 5952646.09		Y: 5949971.02		Y: 5950159.53			
Latitude/ Longitude		Latitude 70.275277		Latitude 70.268673		Latitude 70.2691403			
		Longitude -147.58331		Longitude -147.500611		Longitude -147.506438			
Water Depth (Feet): 19				MD (Feet): 16,056		TVD (Feet): 11,482		MD (Feet): TVD (Feet):	
Anchor Radius (if applicable) in feet:				N/A		MD (Feet):		TVD (Feet):	
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				
N/A	N/A	N/A	X = N/A	Y = N/A	N/A				
			X =	Y =					
			X =	Y =					
			X =	Y =					
			X =	Y =					
			X =	Y =					
			X =	Y =					

OCS PLAN INFORMATION FORM (CONTINUED)

Provide the following information for the well with the highest Worst Case Discharge volume:

Worst Case Discharge (WCD) Well Information							
WCD Well Name	Surface Lease	Surface Area/Block	Bottom Lease	Bottom Area/Block	Product Type	MD	TVD
	OCS-Y1650	NR 06-03/6820B	OCS-Y1650	NR 06-03/6820B	Crude Oil	13,763	11,600

Analog Well(s)			
Area/Block	OCS Lease	Well No.	API No.
NR 06-03/6820B	OCS-Y1650	Liberty #1	55-201-00009-00

Geologic Data for WCD

Open Hole Interval for WCD	
Top (TVD in feet)	Base (TVD in feet)
10,670	11,600

	Sand 1	Sand 2	Sand 3	Sand 4	Sand 5
Formation Data					
Sand Name	Kekikutuk				
Estimated Top TVD	10,670 ft				
Estimated Base TVD	10,985 ft				
Estimated Net Sand Height MD (Net Pay if hydrocarbon)	314				
Estimated Net Sand Height TVT (Net Pay if hydrocarbon)	250				
Fluid Type	Oil				
Used in WCD? (Yes/No)	Yes				

Seismic Survey Used	

Engineering Data for WCD

WCD Engineering Items									
WCD (STB/Day)	91,219 bbl/day								
WCD Calculated at	Mudline	Yes	No		Atmosphere	Yes	x	No	
Flow Correlation	Beggs and Brill								
Outlet Pressure (Psia)	50 psia								
Gas Turbulence Factor									
Software Model Used	CMG Reservoir Simulator								

	Sand 1	Sand 2	Sand 3	Sand 4	Sand 5
Formation Data					
Sand Name	Kekikutuk				
Permeability (mD)	500-1500				
Initial Pressure (PSIA)	5190				

OCS PLAN INFORMATION FORM (CONTINUED)

	Sand 1	Sand 2	Sand 3	Sand 4	Sand 5
Formation Data					
Reservoir Temperature (F)	223				
Porosity (0.00)	18-20%				
Water Saturation (0.00)	5%				
Rock Compressibility (microsips)	5e-6				
Water Salinity (ppm)					
Drive Mechanism	Solution Gas Drive				
Drainage Area (acres)					
Oil Reservoir Data					
Bubble Point Pressure (PSIA)	4973				
Initial Bo (RB/STB)	1.47				
Bo (RB/STB) @ Bubble Point	1.474				
Rsi (SCF/STB)	933				
Initial Oil Viscosity (Cp)	.68				
Oil Viscosity (CP) @ Bubble Point	.68				
Oil Compressibility (1/PSIA)	1e-5				
Oil API Gravity (API)	27				
Specific Gas Gravity (0.00)	.789				
Gas Reservoir Data					
Condensate API Gravity (API)					
Specific Gas Gravity (0.00)					
Yield (STB/MMCF)					

Source of Permeability Used			
Permeability from MDT	x		
Permeability from Core Analysis	Percussion core	Rotary sidewall core	Conventional core X
Pressure Transient Analysis			
Permeability from CMR or NMR log analysis			
Permeability from other source			

Provide Model Input Values for Relative Permeability:	
Residual Oil to Gas fraction (=1-Slc-Swc)	.69
Residual Oil to Water fraction (=Soc)	.12
Critical Gas fraction (Sgc, Gas/Oil-Water Systems)	.07
Residual Gas to Water fraction (Sgc, Gas/Gas-Water Systems)	
Kro Oil Curve Endpoint (fraction of absolute permeability)	1
Krg Gas Curve Endpoint (fraction of absolute permeability)	.8
Krw Water Curve Endpoint (fraction of absolute permeability)	.77

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OCS PLAN INFORMATION FORM

General Information									
Type of OCS Plan:		Exploration Plan (EP)		Development Operations Coordination Document (DOCD)					
Company Name: Hilcorp Alaska, LLC				BOEM Operator Number:					
Address:				Contact Person: Kathryn Kaufman					
3800 Centerpoint Drive, Suite 1400				Phone Number: 907-777-8329					
Anchorage, AK 99503				E-Mail Address: kkaufman@hilcorp.com					
If a service fee is required under 30 CFR 550.125(a), provide the (\$4,238 x 10 wells) =				Amount paid		\$42,380		Receipt No. 25J1B0AH	
Project and Worst Case Discharge (WCD) Information									
Lease(s): OCS-Y1585, OCS-Y1650		Area: NR 06-03		Block(s): 208		Project Name (If Applicable): Liberty Drilling Island (LDI)			
Objective(s)		<input checked="" type="checkbox"/> Oil		<input type="checkbox"/> Gas		<input type="checkbox"/> Sulphur		<input type="checkbox"/> Salt	
Platform/Well Name: LDI		Total Volume of WCD: 91,219 bpd				API Gravity: 27°			
Distance to Closest Land (Miles): ~ 5 miles				Volume from uncontrolled blowout: 91,219 bpd					
Have you previously provided information to verify the calculations and assumptions for your WCD?								Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
If so, provide the Control Number of the EP or DOCD with which this information was provided									
Do you propose to use new or unusual technology to conduct your activities?								Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Do you propose to use a vessel with anchors to install or modify a structure?								Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Do you propose any facility that will serve as a host facility for deepwater subsea development?								Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Description of Proposed Activities and Tentative Schedule (Mark all that apply)									
Proposed Activity				Start Date		End Date		No. of Days	
Exploration drilling				N/A		N/A		N/A	
Development drilling				January 2019		July 2021		~600	
Well completion				January 2019		July 2021		~600	
Well test flaring (for more than 48 hours)				N/A		N/A		N/A	
Installation or modification of structure				January 2018		September 2018		~240	
Installation of production facilities				July 2018		May 2020		~700	
Installation of subsea wellheads and/or manifolds				N/A		N/A		N/A	
Installation of lease term pipelines				January 2019		May 2019		N/A	
Commence production				January 2020		January 2039			
Other (Specify and attach description)				See DPP					
Description of Drilling Rig					Description of Structure				
<input type="checkbox"/> Jackup		<input type="checkbox"/> Drillship			<input type="checkbox"/> Caisson		<input type="checkbox"/> Tension leg platform		
<input type="checkbox"/> Gorilla Jackup		<input type="checkbox"/> Platform rig			<input type="checkbox"/> Fixed platform		<input type="checkbox"/> Compliant tower		
<input type="checkbox"/> Semisubmersible		<input type="checkbox"/> Submersible			<input type="checkbox"/> Spar		<input type="checkbox"/> Guyed tower		
<input type="checkbox"/> DP Semisubmersible		<input checked="" type="checkbox"/> Other (Attach Description)			<input type="checkbox"/> Floating production system		<input type="checkbox"/> Other (Attach Description)		
Drilling Rig Name (If Known): Land Based Drill Rig					X - Gravel Island (See DPP)				
Description of Lease Term Pipelines									
From (Facility/Area/Block)		To (Facility/Area/Block)		Diameter (Inches)		Length (Feet)			
LDPI		Badami Pipeline		12"		37,805'			

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): Slot 7				Previously reviewed under an approved EP or DOCD?		Yes		No	
Is this an existing well or structure?		Yes		No		If this is an existing well or structure, list the Complex ID or API No.		N/A	
Do you plan to use a subsea BOP or a surface BOP on a floating facility to conduct your proposed activities?						Yes		No	
WCD info		For wells, volume of uncontrolled blowout (Bbls/day): 90,544		For structures, volume of all storage and pipelines (Bbls):		API Gravity of fluid		27°	
Surface Location				Bottom-Hole Location (For Wells)		Completion (For multiple completions, enter separate lines)			
Lease No.		OCS OCS-Y1650		OCS OCS-Y1650		OCS -Y1650 OCS -			
Area Name		Beechey Point, NR 06-03		Beechey Point, NR 06-03		Beechey Point, NR 06-03			
Block No.		6820		6820		6820			
Blockline Departures (in feet)		N/S Departure: F <u> </u> S <u> </u> L		N/S Departure: F <u> </u> S <u> </u> L		N/S Departure: F <u> </u> S <u> </u> L			
		4851		5671					
		E/W Departure: F <u> </u> E <u> </u> L		E/W Departure: F <u> </u> E <u> </u> L		E/W Departure: F <u> </u> E <u> </u> L			
		9110		2235					
Lambert X-Y coordinates		X: 1444696.75		X: 1451587.71		X: 1451044.74			
		Y: 5952650.01		Y: 5953356.59		Y: 5953300.92			
Latitude/ Longitude		Latitude 70.275287		Latitude 70.277698		Latitude 70.277508			
		Longitude -147.583428		Longitude -147.52784		Longitude -147.532227			
Water Depth (Feet): 19				MD (Feet): 13,600		TVD (Feet): 11,568		MD (Feet): TVD (Feet):	
Anchor Radius (if applicable) in feet:				N/A		MD (Feet):		TVD (Feet):	
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				
N/A	N/A	N/A	X = N/A	Y = N/A	N/A				
			X =	Y =					
			X =	Y =					
			X =	Y =					
			X =	Y =					
			X =	Y =					
			X =	Y =					
			X =	Y =					

OCS PLAN INFORMATION FORM (CONTINUED)

Provide the following information for the well with the highest Worst Case Discharge volume:

Worst Case Discharge (WCD) Well Information							
WCD Well Name	Surface Lease	Surface Area/Block	Bottom Lease	Bottom Area/Block	Product Type	MD	TVD
	OCS-Y1650	NR 06-03/6820B	OCS-Y1650	NR 06-03/6820B	Crude Oil	13,763	11,600

Analog Well(s)			
Area/Block	OCS Lease	Well No.	API No.
NR 06-03/6820B	OCS-Y1650	Liberty #1	50-201-00009-00

Geologic Data for WCD

Open Hole Interval for WCD	
Top (TVD in feet)	Base (TVD in feet)
10,670'	11,600'

	Sand 1	Sand 2	Sand 3	Sand 4	Sand 5
Formation Data					
Sand Name	Kekikutuk				
Estimated Top TVD	10,670ft				
Estimated Base TVD	10,985 ft				
Estimated Net Sand Height MD (Net Pay if hydrocarbon)	314				
Estimated Net Sand Height TVT (Net Pay if hydrocarbon)	250				
Fluid Type	Oil				
Used in WCD? (Yes/No)	Yes				

Seismic Survey Used	

Engineering Data for WCD

WCD Engineering Items									
WCD (STB/Day)	91,219 bbl/day								
WCD Calculated at	Mudline	Yes	No		Atmosphere	Yes	x	No	
Flow Correlation	Beggs and Brill								
Outlet Pressure (Psia)	14.7 psia								
Gas Turbulence Factor									
Software Model Used	CMG Reservoir Simulator								

	Sand 1	Sand 2	Sand 3	Sand 4	Sand 5
Formation Data					
Sand Name	Kekikutuk				
Permeability (mD)	500-1500				
Initial Pressure (PSIA)	5190				

OCS PLAN INFORMATION FORM (CONTINUED)

	Sand 1	Sand 2	Sand 3	Sand 4	Sand 5
Formation Data					
Reservoir Temperature (F)	223				
Porosity (0.00)	18-20%				
Water Saturation (0.00)	5%				
Rock Compressibility (microsips)	5e-6				
Water Salinity (ppm)					
Drive Mechanism	Solution Gas Drive				
Drainage Area (acres)					
Oil Reservoir Data					
Bubble Point Pressure (PSIA)	4973				
Initial Bo (RB/STB)	1.47				
Bo (RB/STB) @ Bubble Point	1.474				
Rsi (SCF/STB)	941				
Initial Oil Viscosity (Cp)	.68				
Oil Viscosity (CP) @ Bubble Point	.68				
Oil Compressibility (1/PSIA)	1e-5				
Oil API Gravity (API)	27				
Specific Gas Gravity (0.00)	.789				
Gas Reservoir Data					
Condensate API Gravity (API)					
Specific Gas Gravity (0.00)					
Yield (STB/MMCF)					

Source of Permeability Used			
Permeability from MDT	x		
Permeability from Core Analysis	Percussion core	Rotary sidewall core	Conventional core X
Pressure Transient Analysis			
Permeability from CMR or NMR log analysis			
Permeability from other source			

Provide Model Input Values for Relative Permeability:	
Residual Oil to Gas fraction (=1-Slc-Swc)	.69
Residual Oil to Water fraction (=Soc)	.12
Critical Gas fraction (Sgc, Gas/Oil-Water Systems)	.07
Residual Gas to Water fraction (Sgc, Gas/Gas-Water Systems)	
Kro Oil Curve Endpoint (fraction of absolute permeability)	1
Krg Gas Curve Endpoint (fraction of absolute permeability)	.8
Krw Water Curve Endpoint (fraction of absolute permeability)	.77

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OCS PLAN INFORMATION FORM

General Information									
Type of OCS Plan:		Exploration Plan (EP)		Development Operations Coordination Document (DOCD)					
Company Name: Hilcorp Alaska, LLC				BOEM Operator Number:					
Address:				Contact Person: Kathryn Kaufman					
3800 Centerpoint Drive, Suite 1400				Phone Number: 907-777-8329					
Anchorage, AK 99503				E-Mail Address: kkaufman@hilcorp.com					
If a service fee is required under 30 CFR 550.125(a), provide the (\$4,238 x 10 wells) =				Amount paid		\$42,380		Receipt No. 25J1B0AH	
Project and Worst Case Discharge (WCD) Information									
Lease(s): OCS-Y1585, OCS-Y1650		Area: NR 06-03		Block(s): 208		Project Name (If Applicable): Liberty Drilling Island (LDI)			
Objective(s)		<input checked="" type="checkbox"/> Oil		<input type="checkbox"/> Gas		<input type="checkbox"/> Sulphur		<input type="checkbox"/> Salt	
Platform/Well Name: LDI		Total Volume of WCD: 91,219 bpd				API Gravity: 27°			
Distance to Closest Land (Miles): ~ 5 miles				Volume from uncontrolled blowout: 91,219 bpd					
Have you previously provided information to verify the calculations and assumptions for your WCD?								Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
If so, provide the Control Number of the EP or DOCD with which this information was provided									
Do you propose to use new or unusual technology to conduct your activities?								Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Do you propose to use a vessel with anchors to install or modify a structure?								Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Do you propose any facility that will serve as a host facility for deepwater subsea development?								Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Description of Proposed Activities and Tentative Schedule (Mark all that apply)									
Proposed Activity				Start Date		End Date		No. of Days	
Exploration drilling				N/A		N/A		N/A	
Development drilling				January 2019		July 2021		~600	
Well completion				January 2019		July 2021		~600	
Well test flaring (for more than 48 hours)				N/A		N/A		N/A	
Installation or modification of structure				January 2018		September 2018		~240	
Installation of production facilities				July 2018		May 2020		~700	
Installation of subsea wellheads and/or manifolds				N/A		N/A		N/A	
Installation of lease term pipelines				January 2019		May 2019		N/A	
Commence production				January 2020		January 2039			
Other (Specify and attach description)				See DPP					
Description of Drilling Rig					Description of Structure				
<input type="checkbox"/> Jackup		<input type="checkbox"/> Drillship			<input type="checkbox"/> Caisson		<input type="checkbox"/> Tension leg platform		
<input type="checkbox"/> Gorilla Jackup		<input type="checkbox"/> Platform rig			<input type="checkbox"/> Fixed platform		<input type="checkbox"/> Compliant tower		
<input type="checkbox"/> Semisubmersible		<input type="checkbox"/> Submersible			<input type="checkbox"/> Spar		<input type="checkbox"/> Guyed tower		
<input type="checkbox"/> DP Semisubmersible		<input checked="" type="checkbox"/> Other (Attach Description)			<input type="checkbox"/> Floating production system		<input type="checkbox"/> Other (Attach Description)		
Drilling Rig Name (If Known): Land Based Drill Rig					X - Gravel Island (See DPP)				
Description of Lease Term Pipelines									
From (Facility/Area/Block)		To (Facility/Area/Block)		Diameter (Inches)		Length (Feet)			
LDPI		Badami Pipeline		12"		37,805'			

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): Slot 8				Previously reviewed under an approved EP or DOCD?		Yes		No	
Is this an existing well or structure?		Yes		No		X		No	
If this is an existing well or structure, list the Complex ID or API No.				N/A					
Do you plan to use a subsea BOP or a surface BOP on a floating facility to conduct your proposed activities?						Yes		No	
WCD info		For wells, volume of uncontrolled blowout (Bbls/day): 90,544		For structures, volume of all storage and pipelines (Bbls): 12,136		API Gravity of fluid		27°	
Surface Location			Bottom-Hole Location (For Wells)			Completion (For multiple completions, enter separate lines)			
Lease No.		OCS OCS-Y1650		OCS OCS-Y1650		OCS -Y1650 OCS -			
Area Name		Beechey Point, NR 06-03		Beechey Point, NR 06-03		Beechey Point, NR 06-03			
Block No.		6820		6820		6820			
Blockline Departures (in feet)		N/S Departure: F <u> S </u> L		N/S Departure: F <u> N </u> L		N/S Departure: F <u> N </u> L			
		4855		5674		N/S Departure: F <u> </u> L			
		E/W Departure: F <u> E </u> L		E/W Departure: F <u> E </u> L		E/W Departure: F <u> E </u> L			
		9125		12012		E/W Departure: F <u> </u> L			
Lambert X-Y coordinates		X: 1444682.25		X: 1441880.91		X: 144211.42			
		Y: 5952653.92		Y: 5957926.93		Y: 5957493.02			
Latitude/ Longitude		Latitude 70.275296		Latitude 70.289498		Latitude 70.288329			
		Longitude -147.583546		Longitude -147.607325		Longitude -147.605367			
Water Depth (Feet): 19		MD (Feet): 13,111		TVD (Feet): 11,561		MD (Feet):		TVD (Feet):	
Anchor Radius (if applicable) in feet:				N/A		MD (Feet):		TVD (Feet):	
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				
N/A	N/A	N/A	X = N/A	Y = N/A	N/A				
			X =	Y =					
			X =	Y =					
			X =	Y =					
			X =	Y =					
			X =	Y =					
			X =	Y =					
			X =	Y =					

OCS PLAN INFORMATION FORM (CONTINUED)

Provide the following information for the well with the highest Worst Case Discharge volume:

Worst Case Discharge (WCD) Well Information							
WCD Well Name	Surface Lease	Surface Area/Block	Bottom Lease	Bottom Area/Block	Product Type	MD	TVD
	OCS-Y1650	NR 06-03/6820B	OCS-Y1650	NR 06-03/6820B	Crude Oil	13,763	11,600

Analog Well(s)			
Area/Block	OCS Lease	Well No.	API No.
NR 06-03/6820B	OCS-Y1650	Liberty #1	55-201-00009-00

Geologic Data for WCD

Open Hole Interval for WCD	
Top (TVD in feet)	Base (TVD in feet)
10,670'	11,600'

	Sand 1	Sand 2	Sand 3	Sand 4	Sand 5
Formation Data					
Sand Name	Kekikutuk				
Estimated Top TVD	10,670 ft				
Estimated Base TVD	10,985 ft				
Estimated Net Sand Height MD (Net Pay if hydrocarbon)	314				
Estimated Net Sand Height TVT (Net Pay if hydrocarbon)	250				
Fluid Type	Oil				
Used in WCD? (Yes/No)	Yes				

Seismic Survey Used	

Engineering Data for WCD

WCD Engineering Items									
WCD (STB/Day)	91,219 bbl/day								
WCD Calculated at	Mudline	Yes	No		Atmosphere	Yes	x	No	
Flow Correlation	Beggs and Brill								
Outlet Pressure (Psia)	50 psia								
Gas Turbulence Factor									
Software Model Used	CMG Reservoir Simulator								

	Sand 1	Sand 2	Sand 3	Sand 4	Sand 5
Formation Data					
Sand Name	Kekikutuk				
Permeability (mD)	500-1500				
Initial Pressure (PSIA)	5190				

OCS PLAN INFORMATION FORM (CONTINUED)

	Sand 1	Sand 2	Sand 3	Sand 4	Sand 5
Formation Data					
Reservoir Temperature (F)	223				
Porosity (0.00)	18-20%				
Water Saturation (0.00)	5%				
Rock Compressibility (microsips)	5e-6				
Water Salinity (ppm)					
Drive Mechanism	Solution Gas Drive				
Drainage Area (acres)					
Oil Reservoir Data					
Bubble Point Pressure (PSIA)	4973				
Initial Bo (RB/STB)	1.47				
Bo (RB/STB) @ Bubble Point	1.474				
Rsi (SCF/STB)	933				
Initial Oil Viscosity (Cp)	.68				
Oil Viscosity (CP) @ Bubble Point	.68				
Oil Compressibility (1/PSIA)	1e-5				
Oil API Gravity (API)	27				
Specific Gas Gravity (0.00)	.789				
Gas Reservoir Data					
Condensate API Gravity (API)					
Specific Gas Gravity (0.00)					
Yield (STB/MMCF)					

Source of Permeability Used			
Permeability from MDT	x		
Permeability from Core Analysis	Percussion core	Rotary sidewall core	Conventional core X
Pressure Transient Analysis			
Permeability from CMR or NMR log analysis			
Permeability from other source			

Provide Model Input Values for Relative Permeability:	
Residual Oil to Gas fraction (=1-Slc-Swc)	.69
Residual Oil to Water fraction (=Soc)	.12
Critical Gas fraction (Sgc, Gas/Oil-Water Systems)	.07
Residual Gas to Water fraction (Sgc, Gas/Gas-Water Systems)	
Kro Oil Curve Endpoint (fraction of absolute permeability)	1
Krg Gas Curve Endpoint (fraction of absolute permeability)	.8
Krw Water Curve Endpoint (fraction of absolute permeability)	.77

Paperwork Reduction Act of 1995 Statement: The Paperwork Reduction Act of 1995 (44 U.S.C. 2501 et seq.) requires us to inform you that BOEM collects this information as part of an applicant's Exploration Plan or Development Operations Coordination Document submitted for BOEM approval. We use the information to facilitate our review and data entry for OCS plans. We will protect proprietary data according to the Freedom of Information Act and 30 CFR 550.197. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid Office of Management and Budget Control Number. Responses are mandatory (43 U.S.C. 1334). The public reporting burden for this form is included in the burden for preparing Exploration Plans and Development Operations Coordination Documents. We estimate that burden to average 600 hours with an accompanying EP, or 700 hours with an accompanying DPP or DOCD, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the forms associated with subpart B. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Bureau of Ocean Energy Management, 381 Elden Street, Herndon, VA 20170.

OCS PLAN INFORMATION FORM

General Information									
Type of OCS Plan:		Exploration Plan (EP)		Development Operations Coordination Document (DOCD)					
Company Name: Hilcorp Alaska, LLC				BOEM Operator Number:					
Address:				Contact Person: Kathryn Kaufman					
3800 Centerpoint Drive, Suite 1400				Phone Number: 907-777-8329					
Anchorage, AK 99503				E-Mail Address: kkaufman@hilcorp.com					
If a service fee is required under 30 CFR 550.125(a), provide the (\$4,238 x 10 wells) =				Amount paid		\$42,380		Receipt No. 25J1B0AH	
Project and Worst Case Discharge (WCD) Information									
Lease(s): OCS-Y1585, OCS-Y1650		Area: NR 06-03		Block(s): 208		Project Name (If Applicable): Liberty Drilling Island (LDI)			
Objective(s)		<input checked="" type="checkbox"/> Oil		<input type="checkbox"/> Gas		<input type="checkbox"/> Sulphur		<input type="checkbox"/> Salt	
Platform/Well Name: LDI		Total Volume of WCD: 91,219 bpd				API Gravity: 27°			
Distance to Closest Land (Miles): ~ 5 miles				Volume from uncontrolled blowout: 91,219 bpd					
Have you previously provided information to verify the calculations and assumptions for your WCD?								Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
If so, provide the Control Number of the EP or DOCD with which this information was provided									
Do you propose to use new or unusual technology to conduct your activities?								Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Do you propose to use a vessel with anchors to install or modify a structure?								Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Do you propose any facility that will serve as a host facility for deepwater subsea development?								Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Description of Proposed Activities and Tentative Schedule (Mark all that apply)									
Proposed Activity				Start Date		End Date		No. of Days	
Exploration drilling				N/A		N/A		N/A	
Development drilling				January 2019		July 2021		~600	
Well completion				January 2019		July 2021		~600	
Well test flaring (for more than 48 hours)				N/A		N/A		N/A	
Installation or modification of structure				January 2018		September 2018		~240	
Installation of production facilities				July 2018		May 2020		~700	
Installation of subsea wellheads and/or manifolds				N/A		N/A		N/A	
Installation of lease term pipelines				January 2019		May 2019		N/A	
Commence production				January 2020		January 2039			
Other (Specify and attach description)				See DPP					
Description of Drilling Rig					Description of Structure				
<input type="checkbox"/> Jackup		<input type="checkbox"/> Drillship			<input type="checkbox"/> Caisson		<input type="checkbox"/> Tension leg platform		
<input type="checkbox"/> Gorilla Jackup		<input type="checkbox"/> Platform rig			<input type="checkbox"/> Fixed platform		<input type="checkbox"/> Compliant tower		
<input type="checkbox"/> Semisubmersible		<input type="checkbox"/> Submersible			<input type="checkbox"/> Spar		<input type="checkbox"/> Guyed tower		
<input type="checkbox"/> DP Semisubmersible		<input checked="" type="checkbox"/> Other (Attach Description)			<input type="checkbox"/> Floating production system		<input type="checkbox"/> Other (Attach Description)		
Drilling Rig Name (If Known): Land Based Drill Rig					X - Gravel Island (See DPP)				
Description of Lease Term Pipelines									
From (Facility/Area/Block)		To (Facility/Area/Block)		Diameter (Inches)		Length (Feet)			
LDPI		Badami Pipeline		12"		37,805'			

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): Slot 9				Previously reviewed under an approved EP or DOCD?		Yes		No	
Is this an existing well or structure?		Yes		No		X		No	
If this is an existing well or structure, list the Complex ID or API No.				N/A					
Do you plan to use a subsea BOP or a surface BOP on a floating facility to conduct your proposed activities?						Yes		No	
WCD info		For wells, volume of uncontrolled blowout (Bbls/day): 90,544		For structures, volume of all storage and pipelines (Bbls):		API Gravity of fluid		27°	
Surface Location		Bottom-Hole Location (For Wells)		Completion (For multiple completions, enter separate lines)					
Lease No.		OCS OCS-Y1650		OCS OCS-Y1650		OCS -Y1650 OCS -			
Area Name		Beechey Point, NR 06-03		Beechey Point, NR 06-03		Beechey Point, NR 06-03			
Block No.		6820		6820		6820			
Blockline Departures (in feet)		N/S Departure: F <u>S</u> L		N/S Departure: F <u>N</u> L		N/S Departure: F <u>N</u> L			
		4859		1559		N/S Departure: F <u> </u> L			
		E/W Departure: F <u>E</u> L		E/W Departure: F <u>W</u> L		E/W Departure: F <u>W</u> L			
		9139		2880		E/W Departure: F <u> </u> L			
Lambert X-Y coordinates		X: 1444667.75		X: 1456584.49		X: 1455886.29			
		Y: 5952657.84		Y: 5946040.27		Y: 5946427.99			
Latitude/ Longitude		Latitude 70.275306		Latitude 70.258052		Latitude 70.259065			
		Longitude -147.583664		Longitude -147.48599		Longitude -147.491708			
Water Depth (Feet): 19		MD (Feet): 18,178		TVD (Feet): 11,492		MD (Feet):		TVD (Feet):	
Anchor Radius (if applicable) in feet:				N/A		MD (Feet):		TVD (Feet):	
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				
N/A	N/A	N/A	X = N/A	Y = N/A	N/A				
			X =	Y =					
			X =	Y =					
			X =	Y =					
			X =	Y =					
			X =	Y =					
			X =	Y =					
			X =	Y =					

OCS PLAN INFORMATION FORM (CONTINUED)

Provide the following information for the well with the highest Worst Case Discharge volume:

Worst Case Discharge (WCD) Well Information							
WCD Well Name	Surface Lease	Surface Area/Block	Bottom Lease	Bottom Area/Block	Product Type	MD	TVD
	OCS-Y1650	NR 06-03/6820B	OCS-Y1650	NR 06-03/6820B	Crude Oil	13,763	11,600

Analog Well(s)			
Area/Block	OCS Lease	Well No.	API No.
NR 06-03/6820B	OCS-Y1650	Liberty #1	55-201-00009-00

Geologic Data for WCD

Open Hole Interval for WCD	
Top (TVD in feet)	Base (TVD in feet)
10,670'	11,600'

	Sand 1	Sand 2	Sand 3	Sand 4	Sand 5
Formation Data					
Sand Name	Kekiktuk				
Estimated Top TVD	10,670 ft				
Estimated Base TVD	10,985 ft				
Estimated Net Sand Height MD (Net Pay if hydrocarbon)	314				
Estimated Net Sand Height TVT (Net Pay if hydrocarbon)	250				
Fluid Type	Oil				
Used in WCD? (Yes/No)	Yes				

Seismic Survey Used	

Engineering Data for WCD

WCD Engineering Items									
WCD (STB/Day)	91,219 bbl/day								
WCD Calculated at	Mudline	Yes	No		Atmosphere	Yes	x	No	
Flow Correlation	Beggs and Brill								
Outlet Pressure (Psia)	50 psia								
Gas Turbulence Factor									
Software Model Used	CMG Reservoir Simulator								

	Sand 1	Sand 2	Sand 3	Sand 4	Sand 5
Formation Data					
Sand Name	Kekiktuk				
Permeability (mD)	500-1500				
Initial Pressure (PSIA)	5190				

OCS PLAN INFORMATION FORM (CONTINUED)

	Sand 1	Sand 2	Sand 3	Sand 4	Sand 5
Formation Data					
Reservoir Temperature (F)	223				
Porosity (0.00)	18-20%				
Water Saturation (0.00)	5%				
Rock Compressibility (microsips)	5e-6				
Water Salinity (ppm)					
Drive Mechanism	Solution Gas Drive				
Drainage Area (acres)					
Oil Reservoir Data					
Bubble Point Pressure (PSIA)	4973				
Initial Bo (RB/STB)	1.47				
Bo (RB/STB) @ Bubble Point	1.474				
Rsi (SCF/STB)	941				
Initial Oil Viscosity (Cp)	.68				
Oil Viscosity (CP) @ Bubble Point	.68				
Oil Compressibility (1/PSIA)	1e-5				
Oil API Gravity (API)	27				
Specific Gas Gravity (0.00)	.789				
Gas Reservoir Data					
Condensate API Gravity (API)					
Specific Gas Gravity (0.00)					
Yield (STB/MMCF)					

Source of Permeability Used			
Permeability from MDT	x		
Permeability from Core Analysis	Percussion core	Rotary sidewall core	Conventional core X
Pressure Transient Analysis			
Permeability from CMR or NMR log analysis			
Permeability from other source			

Provide Model Input Values for Relative Permeability:	
Residual Oil to Gas fraction (=1-Slc-Swc)	.69
Residual Oil to Water fraction (=Soc)	.12
Critical Gas fraction (Sgc, Gas/Oil-Water Systems)	.07
Residual Gas to Water fraction (Sgc, Gas/Gas-Water Systems)	
Kro Oil Curve Endpoint (fraction of absolute permeability)	1
Krg Gas Curve Endpoint (fraction of absolute permeability)	.8
Krw Water Curve Endpoint (fraction of absolute permeability)	.77

Paperwork Reduction Act of 1995 Statement: The Paperwork Reduction Act of 1995 (44 U.S.C. 2501 et seq.) requires us to inform you that BOEM collects this information as part of an applicant's Exploration Plan or Development Operations Coordination Document submitted for BOEM approval. We use the information to facilitate our review and data entry for OCS plans. We will protect proprietary data according to the Freedom of Information Act and 30 CFR 550.197. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid Office of Management and Budget Control Number. Responses are mandatory (43 U.S.C. 1334). The public reporting burden for this form is included in the burden for preparing Exploration Plans and Development Operations Coordination Documents. We estimate that burden to average 600 hours with an accompanying EP, or 700 hours with an accompanying DPP or DOCD, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the forms associated with subpart B. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Bureau of Ocean Energy Management, 381 Elden Street, Herndon, VA 20170.

OCS PLAN INFORMATION FORM

General Information											
Type of OCS Plan:		Exploration Plan (EP)		Development Operations Coordination Document (DOCD)							
Company Name: Hilcorp Alaska, LLC				BOEM Operator Number:							
Address:				Contact Person: Kathryn Kaufman							
3800 Centerpoint Drive, Suite 1400				Phone Number: 907-777-8329							
Anchorage, AK 99503				E-Mail Address: kkaufman@hilcorp.com							
If a service fee is required under 30 CFR 550.125(a), provide the (\$4,238 x 10 wells) =				Amount paid		\$42,380		Receipt No.		25J1B0AH	
Project and Worst Case Discharge (WCD) Information											
Lease(s): OCS-Y1585, OCS-Y1650			Area: NR 06-03		Block(s): 208		Project Name (If Applicable): Liberty Drilling Island (LDI)				
Objective(s)		<input checked="" type="checkbox"/> Oil	<input type="checkbox"/> Gas	<input type="checkbox"/> Sulphur	<input type="checkbox"/> Salt	Onshore Support Base(s): Endicott SDI					
Platform/Well Name: LDI			Total Volume of WCD: 91,219 bpd					API Gravity: 27°			
Distance to Closest Land (Miles): ~ 5 miles				Volume from uncontrolled blowout: 91,219 bpd							
Have you previously provided information to verify the calculations and assumptions for your WCD?								Yes		<input checked="" type="checkbox"/> No	
If so, provide the Control Number of the EP or DOCD with which this information was provided											
Do you propose to use new or unusual technology to conduct your activities?								Yes		<input checked="" type="checkbox"/> No	
Do you propose to use a vessel with anchors to install or modify a structure?								Yes		<input checked="" type="checkbox"/> No	
Do you propose any facility that will serve as a host facility for deepwater subsea development?								Yes		<input checked="" type="checkbox"/> No	
Description of Proposed Activities and Tentative Schedule (Mark all that apply)											
Proposed Activity				Start Date		End Date		No. of Days			
Exploration drilling				N/A		N/A		N/A			
Development drilling				January 2019		July 2021		~600			
Well completion				January 2019		July 2021		~600			
Well test flaring (for more than 48 hours)				N/A		N/A		N/A			
Installation or modification of structure				January 2018		September 2018		~240			
Installation of production facilities				July 2018		May 2020		~700			
Installation of subsea wellheads and/or manifolds				N/A		N/A		N/A			
Installation of lease term pipelines				January 2019		May 2019		N/A			
Commence production				January 2020		January 2039					
Other (Specify and attach description)				See DPP							
Description of Drilling Rig						Description of Structure					
Jackup				Drillship		Caisson				Tension leg platform	
Gorilla Jackup				Platform rig		Fixed platform				Compliant tower	
Semisubmersible				Submersible		Spar				Guyed tower	
DP Semisubmersible		<input checked="" type="checkbox"/>		Other (Attach Description)		Floating production system				Other (Attach Description) X - Gravel Island (See DPP)	
Drilling Rig Name (If Known): Land Based Drill Rig											
Description of Lease Term Pipelines											
From (Facility/Area/Block)			To (Facility/Area/Block)			Diameter (Inches)			Length (Feet)		
LDPI			Badami Pipeline			12"			37,805'		

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): Slot 10				Previously reviewed under an approved EP or DOCD?		Yes		No	
Is this an existing well or structure?		Yes		No		If this is an existing well or structure, list the Complex ID or API No.			
				<input checked="" type="checkbox"/>		N/A			
Do you plan to use a subsea BOP or a surface BOP on a floating facility to conduct your proposed activities?						Yes		No	
				<input checked="" type="checkbox"/>					
WCD info		For wells, volume of uncontrolled blowout (Bbls/day): 90,544			For structures, volume of all storage and pipelines (Bbls):			API Gravity of fluid	
								27°	
		Surface Location			Bottom-Hole Location (For Wells)			Completion (For multiple completions, enter separate lines)	
Lease No.		OCS OCS-Y1650			OCS OCS-Y1650			OCS -Y1650 OCS -	
Area Name		Beechey Point, NR 06-03			Beechey Point, NR 06-03			Beechey Point, NR 06-03	
Block No.		6820			6820			6820	
Blockline Departures (in feet)		N/S Departure: F <u> </u> S <u> </u> L <u> </u>			N/S Departure: F <u> </u> S <u> </u> L <u> </u>			N/S Departure: F <u> </u> S <u> </u> L <u> </u>	
		4862			5051				
		E/W Departure: F <u> </u> E <u> </u> L <u> </u>			E/W Departure: F <u> </u> E <u> </u> L <u> </u>			E/W Departure: F <u> </u> E <u> </u> L <u> </u>	
		9154			3635				
Lambert X-Y coordinates		X: 1444653.25			X: 1450176.68			X: 1449694.19	
		Y: 5952661.76			Y: 5952759.28			Y: 5952750.76	
								Y: 5952750.76	
Latitude/Longitude		Latitude 70.275316			Latitude 70.27597			Latitude 70.275912	
		Longitude -147.583782			Longitude -147.539137			Longitude -147.543036	
								Longitude	
								Longitude	
Water Depth (Feet): 19				MD (Feet): 13,050		TVD (Feet): 11,645		MD (Feet):	
								TVD (Feet):	
Anchor Radius (if applicable) in feet:				N/A				MD (Feet):	
								TVD (Feet):	
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				
N/A	N/A	N/A	X = N/A	Y = N/A	N/A				
			X =	Y =					
			X =	Y =					
			X =	Y =					
			X =	Y =					
			X =	Y =					
			X =	Y =					
			X =	Y =					

OCS PLAN INFORMATION FORM (CONTINUED)

Provide the following information for the well with the highest Worst Case Discharge volume:

Worst Case Discharge (WCD) Well Information							
WCD Well Name	Surface Lease	Surface Area/Block	Bottom Lease	Bottom Area/Block	Product Type	MD	TVD
	OCS-Y1650	NR 06-03/6820B	OCS-Y1650	NR 06-03/6820B	Crude Oil	13,763	11,600

Analog Well(s)			
Area/Block	OCS Lease	Well No.	API No.
NR 06-03/6820B	OCS-Y1650	Liberty #1	55-201-00009-00

Geologic Data for WCD

Open Hole Interval for WCD	
Top (TVD in feet)	Base (TVD in feet)
10,670	11,600'

	Sand 1	Sand 2	Sand 3	Sand 4	Sand 5
Formation Data					
Sand Name	Kekikutuk				
Estimated Top TVD	10,670 ft				
Estimated Base TVD	10,985 ft				
Estimated Net Sand Height MD (Net Pay if hydrocarbon)	314				
Estimated Net Sand Height TVT (Net Pay if hydrocarbon)	250				
Fluid Type	Oil				
Used in WCD? (Yes/No)	Yes				

Seismic Survey Used	

Engineering Data for WCD

WCD Engineering Items									
WCD (STB/Day)	91,219 bbl/day								
WCD Calculated at	Mudline	Yes	No		Atmosphere	Yes	x	No	
Flow Correlation	Beggs and Brill								
Outlet Pressure (Psia)	50 psia								
Gas Turbulence Factor									
Software Model Used	CMG Reservoir Simulator								

	Sand 1	Sand 2	Sand 3	Sand 4	Sand 5
Formation Data					
Sand Name	Kekikutuk				
Permeability (mD)	500-1500				
Initial Pressure (PSIA)	5190				

OCS PLAN INFORMATION FORM (CONTINUED)

	Sand 1	Sand 2	Sand 3	Sand 4	Sand 5
Formation Data					
Reservoir Temperature (F)	223				
Porosity (0.00)	18-20%				
Water Saturation (0.00)	5%				
Rock Compressibility (microsips)	5e-6				
Water Salinity (ppm)					
Drive Mechanism	Solution Gas Drive				
Drainage Area (acres)					
Oil Reservoir Data					
Bubble Point Pressure (PSIA)	4973				
Initial Bo (RB/STB)	1.47				
Bo (RB/STB) @ Bubble Point	1.474				
Rsi (SCF/STB)	941				
Initial Oil Viscosity (Cp)	.68				
Oil Viscosity (CP) @ Bubble Point	.68				
Oil Compressibility (1/PSIA)	1e-5				
Oil API Gravity (API)	27				
Specific Gas Gravity (0.00)	.789				
Gas Reservoir Data					
Condensate API Gravity (API)					
Specific Gas Gravity (0.00)					
Yield (STB/MMCF)					

Source of Permeability Used			
Permeability from MDT	x		
Permeability from Core Analysis	Percussion core	Rotary sidewall core	Conventional core X
Pressure Transient Analysis			
Permeability from CMR or NMR log analysis			
Permeability from other source			

Provide Model Input Values for Relative Permeability:	
Residual Oil to Gas fraction (=1-Slc-Swc)	.69
Residual Oil to Water fraction (=Soc)	.12
Critical Gas fraction (Sgc, Gas/Oil-Water Systems)	.07
Residual Gas to Water fraction (Sgc, Gas/Gas-Water Systems)	
Kro Oil Curve Endpoint (fraction of absolute permeability)	1
Krg Gas Curve Endpoint (fraction of absolute permeability)	.8
Krw Water Curve Endpoint (fraction of absolute permeability)	.77

Paperwork Reduction Act of 1995 Statement: The Paperwork Reduction Act of 1995 (44 U.S.C. 2501 et seq.) requires us to inform you that BOEM collects this information as part of an applicant's Exploration Plan or Development Operations Coordination Document submitted for BOEM approval. We use the information to facilitate our review and data entry for OCS plans. We will protect proprietary data according to the Freedom of Information Act and 30 CFR 550.197. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid Office of Management and Budget Control Number. Responses are mandatory (43 U.S.C. 1334). The public reporting burden for this form is included in the burden for preparing Exploration Plans and Development Operations Coordination Documents. We estimate that burden to average 600 hours with an accompanying EP, or 700 hours with an accompanying DPP or DOCD, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the forms associated with subpart B. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Bureau of Ocean Energy Management, 381 Elden Street, Herndon, VA 20170.

OCS PLAN INFORMATION FORM

General Information									
Type of OCS Plan:		Exploration Plan (EP)		Development Operations Coordination Document (DOCD)					
Company Name: Hilcorp Alaska, LLC				BOEM Operator Number:					
Address:				Contact Person: Kathryn Kaufman					
3800 Centerpoint Drive, Suite 1400				Phone Number: 907-777-8329					
Anchorage, AK 99503				E-Mail Address: kkaufman@hilcorp.com					
If a service fee is required under 30 CFR 550.125(a), provide the (\$4,238 x 10 wells) =				Amount paid		\$42,380		Receipt No. 25J1B0AH	
Project and Worst Case Discharge (WCD) Information									
Lease(s): OCS-Y1585, OCS-Y1650		Area: NR 06-03		Block(s): 208		Project Name (If Applicable): Liberty Drilling Island (LDI)			
Objective(s)		<input checked="" type="checkbox"/> Oil		<input type="checkbox"/> Gas		<input type="checkbox"/> Sulphur		<input type="checkbox"/> Salt	
Platform/Well Name: LDI		Total Volume of WCD: 91,219 bpd				API Gravity: 27°			
Distance to Closest Land (Miles): ~ 5 miles				Volume from uncontrolled blowout: 91,219 bpd					
Have you previously provided information to verify the calculations and assumptions for your WCD?								Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
If so, provide the Control Number of the EP or DOCD with which this information was provided									
Do you propose to use new or unusual technology to conduct your activities?								Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Do you propose to use a vessel with anchors to install or modify a structure?								Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Do you propose any facility that will serve as a host facility for deepwater subsea development?								Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Description of Proposed Activities and Tentative Schedule (Mark all that apply)									
Proposed Activity				Start Date		End Date		No. of Days	
Exploration drilling				N/A		N/A		N/A	
Development drilling				January 2019		July 2021		~600	
Well completion				January 2019		July 2021		~600	
Well test flaring (for more than 48 hours)				N/A		N/A		N/A	
Installation or modification of structure				January 2018		September 2018		~240	
Installation of production facilities				July 2018		May 2020		~700	
Installation of subsea wellheads and/or manifolds				N/A		N/A		N/A	
Installation of lease term pipelines				January 2019		May 2019		N/A	
Commence production				January 2020		January 2039			
Other (Specify and attach description)				See DPP					
Description of Drilling Rig				Description of Structure					
<input type="checkbox"/> Jackup		<input type="checkbox"/> Drillship		<input type="checkbox"/> Caisson		<input type="checkbox"/> Tension leg platform			
<input type="checkbox"/> Gorilla Jackup		<input type="checkbox"/> Platform rig		<input type="checkbox"/> Fixed platform		<input type="checkbox"/> Compliant tower			
<input type="checkbox"/> Semisubmersible		<input type="checkbox"/> Submersible		<input type="checkbox"/> Spar		<input type="checkbox"/> Guyed tower			
<input type="checkbox"/> DP Semisubmersible		<input checked="" type="checkbox"/> Other (Attach Description)		<input type="checkbox"/> Floating production system		<input type="checkbox"/> Other (Attach Description)			
Drilling Rig Name (If Known): Land Based Drill Rig				X - Gravel Island (See DPP)					
Description of Lease Term Pipelines									
From (Facility/Area/Block)		To (Facility/Area/Block)		Diameter (Inches)		Length (Feet)			
LDPI		Badami Pipeline		12"		37,805'			

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): Slot 11				Previously reviewed under an approved EP or DOCD?		Yes		No	
Is this an existing well or structure?		Yes		No		X		No	
If this is an existing well or structure, list the Complex ID or API No.				N/A					
Do you plan to use a subsea BOP or a surface BOP on a floating facility to conduct your proposed activities?						Yes		No	
WCD info		For wells, volume of uncontrolled blowout (Bbls/day): 90,544		For structures, volume of all storage and pipelines (Bbls):		API Gravity of fluid		27°	
Surface Location		Bottom-Hole Location (For Wells)		Completion (For multiple completions, enter separate lines)					
Lease No.		OCS OCS-Y1650		OCS OCS-Y1650		OCS -Y1650 OCS -			
Area Name		Beechey Point, NR 06-03		Beechey Point, NR 06-03		Beechey Point, NR 06-03			
Block No.		6820		6820		6820			
Blockline Departures (in feet)		N/S Departure: F <u> S </u> L		N/S Departure: F <u> S </u> L		N/S Departure: F <u> S </u> L			
		4866		4296		N/S Departure: F <u> </u> L			
		E/W Departure: F <u> E </u> L		E/W Departure: F <u> W </u> L		E/W Departure: F <u> W </u> L			
		9269		1595		E/W Departure: F <u> </u> L			
Lambert X-Y coordinates		X: 1444638.75		X: 1455395.75		X: 1454643.07			
		Y: 5952665.67		Y: 5951917.88		Y: 5951970.19			
Latitude/ Longitude		Latitude 70.275325		Latitude 70.274027		Latitude 70.274118			
		Longitude -147.58390		Longitude -147.496762		Longitude -147.502859			
Water Depth (Feet): 19		MD (Feet): 16,263		TVD (Feet): 11,436		MD (Feet):		TVD (Feet):	
Anchor Radius (if applicable) in feet:				N/A		MD (Feet):		TVD (Feet):	
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				
N/A	N/A	N/A	X = N/A	Y = N/A	N/A				
			X =	Y =					
			X =	Y =					
			X =	Y =					
			X =	Y =					
			X =	Y =					
			X =	Y =					
			X =	Y =					

OCS PLAN INFORMATION FORM (CONTINUED)

Provide the following information for the well with the highest Worst Case Discharge volume:

Worst Case Discharge (WCD) Well Information							
WCD Well Name	Surface Lease	Surface Area/Block	Bottom Lease	Bottom Area/Block	Product Type	MD	TVD
	OCS-Y1650	NR 06-03/6820B	OCS-Y1650	NR 06-03/6820B	Crude Oil	13763	11,600

Analog Well(s)			
Area/Block	OCS Lease	Well No.	API No.
NR 06-03/6820B	OCS-Y1650	Liberty #1	55-201-00009-00

Geologic Data for WCD

Open Hole Interval for WCD	
Top (TVD in feet)	Base (TVD in feet)
10,670'	11,600'

	Sand 1	Sand 2	Sand 3	Sand 4	Sand 5
Formation Data					
Sand Name	Kekikutuk				
Estimated Top TVD	10,670 ft				
Estimated Base TVD	10,985 ft				
Estimated Net Sand Height MD (Net Pay if hydrocarbon)	314				
Estimated Net Sand Height TVT (Net Pay if hydrocarbon)	250				
Fluid Type	Oil				
Used in WCD? (Yes/No)	Yes				

Seismic Survey Used	

Engineering Data for WCD

WCD Engineering Items									
WCD (STB/Day)	91,219 bbl/day								
WCD Calculated at	Mudline	Yes	No		Atmosphere	Yes	x	No	
Flow Correlation	Beggs and Brill								
Outlet Pressure (Psia)	50 psia								
Gas Turbulence Factor									
Software Model Used	CMG Reservoir Simulator								

	Sand 1	Sand 2	Sand 3	Sand 4	Sand 5
Formation Data					
Sand Name	Kekikutuk				
Permeability (mD)	500-1500				
Initial Pressure (PSIA)	5190				

OCS PLAN INFORMATION FORM (CONTINUED)

	Sand 1	Sand 2	Sand 3	Sand 4	Sand 5
Formation Data					
Reservoir Temperature (F)	223				
Porosity (0.00)	18-20%				
Water Saturation (0.00)	5%				
Rock Compressibility (microsips)	5e-6				
Water Salinity (ppm)					
Drive Mechanism	Solution Gas Drive				
Drainage Area (acres)					
Oil Reservoir Data					
Bubble Point Pressure (PSIA)	4973				
Initial Bo (RB/STB)	1.47				
Bo (RB/STB) @ Bubble Point	1.474				
Rsi (SCF/STB)	941				
Initial Oil Viscosity (Cp)	.68				
Oil Viscosity (CP) @ Bubble Point	.68				
Oil Compressibility (1/PSIA)	1e-5				
Oil API Gravity (API)	27				
Specific Gas Gravity (0.00)	.789				
Gas Reservoir Data					
Condensate API Gravity (API)					
Specific Gas Gravity (0.00)					
Yield (STB/MMCF)					

Source of Permeability Used			
Permeability from MDT	x		
Permeability from Core Analysis	Percussion core	Rotary sidewall core	Conventional core X
Pressure Transient Analysis			
Permeability from CMR or NMR log analysis			
Permeability from other source			

Provide Model Input Values for Relative Permeability:	
Residual Oil to Gas fraction (=1-Slc-Swc)	.69
Residual Oil to Water fraction (=Soc)	.12
Critical Gas fraction (Sgc, Gas/Oil-Water Systems)	.07
Residual Gas to Water fraction (Sgc, Gas/Gas-Water Systems)	
Kro Oil Curve Endpoint (fraction of absolute permeability)	1
Krg Gas Curve Endpoint (fraction of absolute permeability)	.8
Krw Water Curve Endpoint (fraction of absolute permeability)	.77

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OCS PLAN INFORMATION FORM

General Information									
Type of OCS Plan:		Exploration Plan (EP)		Development Operations Coordination Document (DOCD)					
Company Name: Hilcorp Alaska, LLC				BOEM Operator Number:					
Address:				Contact Person: Kathryn Kaufman					
3800 Centerpoint Drive, Suite 1400				Phone Number: 907-777-8329					
Anchorage, AK 99503				E-Mail Address: kkaufman@hilcorp.com					
If a service fee is required under 30 CFR 550.125(a), provide the (\$4,238 x 10 wells) =				Amount paid		\$42,380		Receipt No. 25J1B0AH	
Project and Worst Case Discharge (WCD) Information									
Lease(s): OCS-Y1585, OCS-Y1650		Area: NR 06-03		Block(s): 208		Project Name (If Applicable): Liberty Drilling Island (LDI)			
Objective(s)		<input checked="" type="checkbox"/> Oil		<input type="checkbox"/> Gas		<input type="checkbox"/> Sulphur		<input type="checkbox"/> Salt	
Platform/Well Name: LDI		Total Volume of WCD: 91,219 bpd				API Gravity: 27°			
Distance to Closest Land (Miles): ~ 5 miles				Volume from uncontrolled blowout: 91,219 bpd					
Have you previously provided information to verify the calculations and assumptions for your WCD?								<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
If so, provide the Control Number of the EP or DOCD with which this information was provided									
Do you propose to use new or unusual technology to conduct your activities?								<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Do you propose to use a vessel with anchors to install or modify a structure?								<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Do you propose any facility that will serve as a host facility for deepwater subsea development?								<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Description of Proposed Activities and Tentative Schedule (Mark all that apply)									
Proposed Activity				Start Date		End Date		No. of Days	
Exploration drilling				N/A		N/A		N/A	
Development drilling				January 2019		July 2021		~600	
Well completion				January 2019		July 2021		~600	
Well test flaring (for more than 48 hours)				N/A		N/A		N/A	
Installation or modification of structure				January 2018		September 2018		~240	
Installation of production facilities				July 2018		May 2020		~700	
Installation of subsea wellheads and/or manifolds				N/A		N/A		N/A	
Installation of lease term pipelines				January 2019		May 2019		N/A	
Commence production				January 2020		January 2040			
Other (Specify and attach description)				See DPP					
Description of Drilling Rig					Description of Structure				
<input type="checkbox"/> Jackup		<input type="checkbox"/> Drillship			<input type="checkbox"/> Caisson		<input type="checkbox"/> Tension leg platform		
<input type="checkbox"/> Gorilla Jackup		<input type="checkbox"/> Platform rig			<input type="checkbox"/> Fixed platform		<input type="checkbox"/> Compliant tower		
<input type="checkbox"/> Semisubmersible		<input type="checkbox"/> Submersible			<input type="checkbox"/> Spar		<input type="checkbox"/> Guyed tower		
<input type="checkbox"/> DP Semisubmersible		<input checked="" type="checkbox"/> Other (Attach Description)			<input type="checkbox"/> Floating production system		<input type="checkbox"/> Other (Attach Description)		
Drilling Rig Name (If Known): Land Based Drill Rig					X - Gravel Island (See DPP)				
Description of Lease Term Pipelines									
From (Facility/Area/Block)		To (Facility/Area/Block)		Diameter (Inches)		Length (Feet)			
LDPI		Badami Pipeline		12"		37,805'			

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): WCD Well				Previously reviewed under an approved EP or DOCD?		Yes		No	
Is this an existing well or structure?		Yes		No		If this is an existing well or structure, list the Complex ID or API No.		N/A	
Do you plan to use a subsea BOP or a surface BOP on a floating facility to conduct your proposed activities?						Yes		No	
WCD info		For wells, volume of uncontrolled blowout (Bbls/day): 90,544		For structures, volume of all storage and pipelines (Bbls):		API Gravity of fluid		27°	
Surface Location				Bottom-Hole Location (For Wells)		Completion (For multiple completions, enter separate lines)			
Lease No.		OCS OCS-Y1650;		OCS OCS Y1650;		OCS OCS			
Area Name		Liberty, NR 06-03		Liberty, NR 06-03					
Block No.		6820		6820					
Blockline Departures (in feet)		N/S Departure: F <u> S </u> L		N/S Departure: F <u> N </u> L		N/S Departure: F <u> </u> L			
		4829		4942		N/S Departure: F <u> </u> L			
		E/W Departure: F <u> E </u> L		E/W Departure: F <u> E </u> L		E/W Departure: F <u> </u> L			
		9023		12776		E/W Departure: F <u> </u> L			
Lambert X-Y coordinates		X:		X:		X:			
		Y:		Y:		Y:			
Latitude/ Longitude		Latitude 70.275229		Latitude 70.291473		Latitude Latitude Latitude			
		Longitude -147.58272		Longitude -147.613568		Longitude Longitude Longitude			
Water Depth (Feet): 19				MD (Feet): 13,763		TVD (Feet): 11,600		MD (Feet): MD (Feet): MD (Feet):	
Anchor Radius (if applicable) in feet:				N/A				TVD (Feet): TVD (Feet): TVD (Feet):	
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				
N/A	N/A	N/A	X = N/A	Y = N/A	N/A				
			X =	Y =					
			X =	Y =					
			X =	Y =					
			X =	Y =					
			X =	Y =					
			X =	Y =					
			X =	Y =					

OCS PLAN INFORMATION FORM (CONTINUED)

Provide the following information for the well with the highest Worst Case Discharge volume:

Worst Case Discharge (WCD) Well Information							
WCD Well Name	Surface Lease	Surface Area/Block	Bottom Lease	Bottom Area/Block	Product Type	MD	TVD
	OCS-Y1650	NR 06-03/6820B	OCS-Y1650	NR 06-03/6820B	Crude Oil	13,763	11,600

Analog Well(s)			
Area/Block	OCS Lease	Well No.	API No.
NR 06-03/6820B	OCS-Y1650	Liberty #1	55-201-00009-00

Geologic Data for WCD

Open Hole Interval for WCD	
Top (TVD in feet)	Base (TVD in feet)
10,670'	11,600'

	Sand 1	Sand 2	Sand 3	Sand 4	Sand 5
Formation Data					
Sand Name	Kekikutuk				
Estimated Top TVD	10,670 ft				
Estimated Base TVD	10,985 ft				
Estimated Net Sand Height MD (Net Pay if hydrocarbon)	314				
Estimated Net Sand Height TVT (Net Pay if hydrocarbon)	250				
Fluid Type	Oil				
Used in WCD? (Yes/No)	Yes				

Seismic Survey Used	

Engineering Data for WCD

WCD Engineering Items									
WCD (STB/Day)	91,219 bbl/day								
WCD Calculated at	Mudline	Yes	No		Atmosphere	Yes	x	No	
Flow Correlation	Beggs and Brill								
Outlet Pressure (Psia)	50 psia								
Gas Turbulence Factor									
Software Model Used	CMG Reservoir Simulator								

	Sand 1	Sand 2	Sand 3	Sand 4	Sand 5
Formation Data					
Sand Name	Kekikutuk				
Permeability (mD)	500-1500				
Initial Pressure (PSIA)	5190				

OCS PLAN INFORMATION FORM (CONTINUED)

	Sand 1	Sand 2	Sand 3	Sand 4	Sand 5
Formation Data					
Reservoir Temperature (F)	223				
Porosity (0.00)	18-20%				
Water Saturation (0.00)	5%				
Rock Compressibility (microsips)	5e-6				
Water Salinity (ppm)					
Drive Mechanism	Solution Gas Drive				
Drainage Area (acres)					
Oil Reservoir Data					
Bubble Point Pressure (PSIA)	4973				
Initial Bo (RB/STB)	1.47				
Bo (RB/STB) @ Bubble Point	1.474				
Rsi (SCF/STB)	941				
Initial Oil Viscosity (Cp)	.68				
Oil Viscosity (CP) @ Bubble Point	.68				
Oil Compressibility (1/PSIA)	1e-5				
Oil API Gravity (API)	27				
Specific Gas Gravity (0.00)	.789				
Gas Reservoir Data					
Condensate API Gravity (API)					
Specific Gas Gravity (0.00)					
Yield (STB/MMCF)					

Source of Permeability Used			
Permeability from MDT	x		
Permeability from Core Analysis	Percussion core	Rotary sidewall core	Conventional core X
Pressure Transient Analysis			
Permeability from CMR or NMR log analysis			
Permeability from other source			

Provide Model Input Values for Relative Permeability:	
Residual Oil to Gas fraction (=1-Slc-Swc)	.69
Residual Oil to Water fraction (=Soc)	.12
Critical Gas fraction (Sgc, Gas/Oil-Water Systems)	.07
Residual Gas to Water fraction (Sgc, Gas/Gas-Water Systems)	
Kro Oil Curve Endpoint (fraction of absolute permeability)	1
Krg Gas Curve Endpoint (fraction of absolute permeability)	.8
Krw Water Curve Endpoint (fraction of absolute permeability)	.77

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