

Appendix XII

Cultural Resources Information

- Cultural Resources References Studies
- Section 106 Letter of Concurrence

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Appendix XII.1

Cultural Resources Reference Studies

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Table XII-1. Previous Cultural Resources Studies in the Analysis Area

Author	Date	Report Title	Survey Type	Notes
HDR	2018	Report of Findings: 2017 Cultural Resources Survey, Nanushuk Development Project.	Windshield and Pedestrian	Supplemental report for the proposed Nanushuk Project, focusing on Oliktok Road.
HDR	2017	Nanushuk Development Project Cultural Resources Survey Report	Aerial and Pedestrian	Report for the proposed Nanushuk Project.
Stephen R. Braund and Associates	2016	Quintillion Subsea Networks, LLC., Arctic Fiber Project, POA-2015-529	Desktop	Report for subsea fiber optic network in Arctic Alaska beginning in 2016 and continuing in subsequent years. Relevant portion of report discussing Oliktok Point was literature review only. No historic properties effected.
BOEM	2016	Page 25 of BOEM shipwreck database	N/A	N/A
Reanier and Associates	2015	Letter Report for the Repsol Qugruk Exploration Project, North Slope, Alaska, for the Year 2015	Aerial and Pedestrian	Report for the 2015-2016 winter drilling season. Project included ice roads, airstrips and pads to provide support and infrastructure to the drilling program. No adverse effect.
Reanier and Associates	2015	Letter Report for ConocoPhillips KCS Pad Expansion Cultural Resources 2015	Aerial and Pedestrian	Report for expansion of existing Kuparuk Construction Storage (KCS) gravel pad by 58.6 acres for the 2015-2016 winter season. No adverse effect.
Reanier and Associates	2015	Kuparuk Drilling Annex Pad - Cultural Resources	Aerial and Pedestrian	Report for construction of a new gravel pad during the winter of 2015-2016. No adverse effect.
ASRC	2015	Cultural Resource Desktop Study and Protection Plan Placer #3 Exploration, North Slope, Alaska 2015 ASRC	Desktop	Literature review to support the winter exploration program. No adverse effect.
Reanier and Associates	2015	Caelus Nuna 3D Seismic Survey	Desktop	Literature review for 2014-2015 winter seismic activities. Cultural resources located within APE protected with "environmentally sensitive zones." No adverse effect.
Reanier and Associates	2015	Request for Cultural Clearance for Drill Site 3O (DS-3O) Pad Expansion	Desktop	Literature review for expansion of the gravel production pad at Drill Site 3O (DS-3O) during the 2015-2016 winter season. No historic properties affected.
BLM	2015	Fairbanks District Office's Annual Report for 2014 pursuant to BLM protocol in Alaska	N/A	Fairbanks District Office's Assessment of Archaeological, Historical and Paleontological Resources annual report for 2014. Provides a summary of basic information on the year's cultural resource management activities.
ASRC	2014	2014 Cultural Resource Aerial Reconnaissance Survey for the Arctic National Broadband Network North Slope, Alaska DRAFT FINAL	Desktop for Oliktok Point	Report for project to provide broadband service to the North Slope Borough by connecting to an existing fiber optic network. Relevant portion of report discussing Oliktok Point is literature review only. No historic properties effected.
Reanier and Associates	2014	DS-3S Moraine Exploration Well Cultural Resources, ConocoPhillips Alaska, Inc.	Aerial and Pedestrian	Report for drilling activities during the 2014-2015 winter season. No historic properties affected.

Author	Date	Report Title	Survey Type	Notes
Reanier and Associates	2014	Repsol 2014 Geotechnical Program, West Miluveach Area	Desktop	Literature review for the 2014-2015 geotechnical program. No historic properties affected.
Reanier and Associates	2014	OTP Southern Expansion Letter Report	Desktop	Literature review for a 3-acre expansion of the Oooguruk Tie-In Pad (OTP). No historic properties affected.
Reanier and Associates	2014	Letter Report for the Repsol Qugruk Exploration 2014-2015 Winter Drilling Program, North Slope, Alaska	Desktop	Literature review for the 2014-2015 winter drilling program. Cultural resource sites in proximity to proposed infrastructure would be protected by a 500-foot "environmentally sensitive zone." No adverse effect.
Reanier and Associates	2014	Letter Report for the ConocoPhillips Oliktok Phase 2 3D Seismic Program, North Slope, Alaska, for the Year 2014	Desktop	Literature review for seismic operation in the Kuparuk River, Milne Point, Oooguruk, and Nikaitchuq units during the winter of 2015. Cultural resource sites within and near the Oliktok Point protected with "environmentally sensitive zones." No adverse Effect.
Mobley and Associates	2013	Cultural Resource Survey for Repsol's 2012/2013 Material Source Investigations, Colville River, North Slope, Alaska	Aerial and Discretionary Pedestrian	Report for proposed material sources in the Colville River region of the North Slope for Repsol. One AHRS site was determined to need buffering (HAR-162), and two other sites discovered after field work (HAR-171 and HAR-095) were discussed as well. No SHPO response was necessary as previous consultation had already occurred.
Mobley and Associates	2013	Cultural Resource Survey for Repsol's 2012/2013 Ice Roads and Ice Pads Investigations, Colville River, North Slope, Alaska	Aerial and Discretionary Pedestrian	Report for proposed ice roads and pads for 2012/2013 drilling exploration. Two new sites were recorded and several other previously known sites were visited during the course of the survey. No SHPO response was necessary as consultation had already occurred.
Mobley and Associates	2013	Cultural Resource Survey for Repsol's 2012/2013 3D Seismic Investigations, Colville River, North Slope, Alaska	Aerial and Discretionary Pedestrian	Report for proposed seismic investigations in the Colville River region. Cultural resources within the APE expected to be buffered. No SHPO response was necessary as consultation had previously occurred.
Reanier and Associates	2013	Letter RE: Qugruk and Shrader Bluff Prospect Cultural Resources	Aerial and Discretionary Pedestrian	Report for proposed winter drilling exploration areas and ice road routes. Cultural resource sites within the APE (HAR-00099 and HAR-00093) avoided and marked as "environmentally sensitive" areas. No adverse effect.
Reanier and Associates	2013	Letter Report RE: OTP Seawater Flowline, Seawater Tie-In Pad, and OTP and ODS Expansion	Aerial and Pedestrian	Report for proposed seawater flowline and expansion of the Oooguruk Tie-In Pad. Cultural resource sites in proximity to some of the proposed activity buffered and labeled as "environmentally sensitive." No adverse effect.
Reanier and Associates	2013	Letter Report RE; ConocoPhillips DS2S Development Project, North Slope, Alaska	Aerial and Pedestrian	Report for proposed development areas for the 2013 winter season. No historic properties affected.
Reanier and Associates	2013	Letter Report RE: ConocoPhillips KCS Pad Expansion Project, North Slope, Alaska	Aerial and Pedestrian	Report for proposed pad expansion. No historic properties affected.

Author	Date	Report Title	Survey Type	Notes
Reanier and Associates	2013	Letter Report for the Repsol 2013-2014 Geotechnical Program, North Miluveach and Mustang Areas	Desktop	Literature review for 2013-2014 geotechnical activities. No historic properties affected, with stipulation that the operator will need to ensure that nearby cultural resources would remain unaffected by the proposed action.
Reanier and Associates	2013	Letter Report RE: POA-2013-235 GPAC, Chukchi Sea, SAExploration Inc.	Desktop	Literature review for proposed seismic exploration between Oliktok Point and the western extent of the Colville River Delta. Cultural resource sites within the APE (HAR-00153 and HAR-00016) would be avoided and marked as "environmentally sensitive" areas. No adverse effect.
Reanier and Associates	2013	Letter Report RE: Placer Development Project Cultural Resources	Desktop	Literature review. No historic properties affected.
BLM	2013	BLM FY 2012 Annual Report, Fairbanks Field Office	N/A	Fairbanks District Office's Assessment of Archaeological, Historical and Paleontological Resources annual report for 2012. Provides a summary of basic information on the year's cultural resource management activities.
Mobley and Associates	2012	Letter Report RE: 2012 Archaeological Survey for Repsol's Colville River Material Sources	Aerial and Discretionary Pedestrian	Report for proposed material sources. Stipulates that nearby cultural resources be avoided. No historic properties affected.
Reanier and Associates	2012	Letter Report RE: Request for Cultural Resources Clearance, Tofkat Unit	Aerial and Pedestrian	Report for development operations during the 2012-2013 season. No historic properties affected.
Brooks Range Petroleum Corporation	2012	Letter Report RE: Request for Cultural Resources Clearance, Mustang Development Project	Aerial and Pedestrian	Report for development operations during the 2012-2013 season. No historic properties affected.
Mobley and Associates	2012	Letter Report RE: 2012 Archaeological Survey for Repsol's Colville River Ice Roads and Pads	Aerial and Pedestrian	Report for ice roads and pads for operations during the 2012-2013 winter season. No historic properties affected.
Reanier and Associates	2012	Cultural Resources Reconnaissance for the Shark Tooth Appraisal Well, North Slope, Alaska, for the Year 2011	Aerial and Pedestrian	Report for operations during the 2011 season. No historic properties affected.
Reanier and Associates	2012	Letter Report RE: Simpson Lagoon OBC Seismic Survey Cultural Clearance	Desktop	Literature review for seismic survey operations in Simpson Lagoon. Cultural resources sites within and adjacent to operations area prospected by 300-foot "environmentally sensitive zone." No adverse effect.
ConocoPhillips Alaska, Inc.	2012	Letter Re: Kuparuk River Unit, Drill Site 3S Tiltmeters Installation, ConocoPhillips Alaska, Inc.	Desktop	Literature review for equipment installation. No historic properties affected.
Reanier and Associates	2012	Letter Report Re: Scope Change, DS-1H Seismic Test Program, Kuparuk River Unit	Desktop	Literature review written due to a scope change for a seismic test program in the Kuparuk River Unit. No historic properties affected.

Author	Date	Report Title	Survey Type	Notes
Reanier and Associates	2011	Cultural Resources Reconnaissance for the Alpine Re-Supply Ice Road Pads Project, North Slope, Alaska, for the Year 2010	Aerial	Report for proposed ice roads and pads. No historic properties affected.
Reanier and Associates	2011	Cultural Resources Reconnaissance for the Nuna Project, North Slope, Alaska, for the Year 2010	Aerial and Discretionary Pedestrian	Report for operations during the 2010 season. No historic properties affected.
Mobley and Associates	2011	Letter Report RE: 2011 Archaeological Survey for Repsol's Colville River Ice Roads and Pads	Aerial and Pedestrian	Report for proposed winter drilling program during the 2011 winter season. No historic properties affected.
BLM	2011	BLM FY 2011 Annual Report, Fairbanks District Office	N/A	Fairbanks District Office's Assessment of Archaeological, Historical and Paleontological Resources annual report for 2011. Provides a summary of basic information on the year's cultural resource management activities.
Reanier and Associates	2010	Letter Report for the North Tarn Exploration Program	Aerial and Discretionary Pedestrian	Report for proposed exploration of North Tarn prospect includes drill site and access route. No historic properties affected.
Reanier and Associates	2010	Cultural Resources Reconnaissance for the West Kuparuk 3D Seismic Program, North Slope, Alaska, for the Year 2010	Aerial and Discretionary Pedestrian	Report for proposed seismic testing locations between the Kuparuk and Colville rivers. Twenty sites were updated/recorded (8 new) but none within APE. No historic properties affected.
Reanier and Associates	2010	Letter Report Re: Kuparuk 3D Seismic Program	Aerial and Discretionary Pedestrian	Report for seismic activities during the 2010 season. Six new AHRS sites and ten previously recorded sites within the APE protected by 300-foot "environmentally sensitive zone." No adverse effect.
Center for Environmental Management of Military Lands	2008	Annotated Bibliography: Distant Early Warning (DEW) System, Alaska	N/A	Annotated bibliography of documents that cover the DEW Line in Alaska and Northern Canada.
Reanier and Associates	2007	Letter Re Brooks Range Petroleum Corp. Proposal To Explore The Titania Prospect, Written For Brooks Range Petroleum Corp.	Aerial	Report for proposed exploration activities during 2007. No historic properties affected.
NLUR	2007	Letter Report Re: Cultural Resource Assessment of Proposed Development at Drill Site 3K, Kuparuk, Alaska	Desktop	Literature review for development and drilling operations during the 2007 season. No historic properties affected.
NLUR	2007	Letter Report Re: Cultural Resource Assessment of Proposed Development at Drill Site 2K, Kuparuk, Alaska	Desktop	Literature review for development and drilling operations during the 2007 season. No historic properties affected.
Reanier and Associates	2007	Letter Re Brooks Range Petroleum Corp. Proposal To Explore The Titania Prospect, Written For Brooks Range Petroleum Corp	Desktop	Literature review for exploration activities during the 2007 season. No historic properties affected.

Author	Date	Report Title	Survey Type	Notes
NLUR	2007	Letter Report Re: Cultural Resource Survey of Proposed Development at Drill Site 3H, Kuparuk, Alaska	Pedestrian	Report for development and drilling activities during the 2007 season. No historic properties affected.
Reanier and Associates	2006	Letter Re 2006/2007 Ice Road Update, Oooguruk Development Project	Aerial and Discretionary Pedestrian	Report for proposed construction of two ice roads and three ice pads in the Oooguruk unit. No historic properties affected.
Reanier and Associates	2006	Cultural Resources Reconnaissance For The Oooguruk Development Project, North Slope, Alaska, For The Year 2005, Written By Reanier, R. E., Written For Pioneer Natural Resources Alaska, Inc.	Aerial and Discretionary Pedestrian	Report for proposed development activities during the 2005 season. No sites within APE and adjacent sites protected by buffer zones. No historic properties affected.
ConocoPhillips Alaska, Inc.	2006	Letter Re Installation of Snowfence at Drill Site 3G	Desktop	Literature review for installation of two permanent snow fences around Drill Site 3G and two ice roads to transport equipment. No historic properties affected.
ConocoPhillips Alaska, Inc.	2006	Letter Re Drill Site 2T Snowfence	Desktop	Literature review for installation of three permanent fences around Drill Site 2T including the construction of two ice roads to transport equipment. No historic properties affected.
NLUR	2006	Letter Report Re: Cultural Resource Analysis Regarding Proposed Snow Fence at DS2T, Kuparuk Oil Field, Alaska	Desktop	Literature review for installation of permanent snow fence (access via ice road). No historic properties affected.
NLUR	2006	Letter Report Re: Cultural Resource Analysis Regarding Proposed ULSD Pipeline from CPF1 to CPF3 and Proposed CPF3 Ice Road, Flare Pipeline, and KO Drum, Kuparuk Oil Field, North Slope, AK	Desktop	Literature review for proposed pipeline and ice road routes. No historic properties affected.
Reanier and Associates	2006	Letter Report Re Proposed Rolligon Route Leading From Drill Site 2L To The ASRC Mine Site	Desktop	Literature review for rolligon access routes. No historic properties affected.
ConocoPhillips Alaska, Inc.	2006	Letter Re Drill Site 2N-333 Thermosyphon, VSM, and Well Installation	None	Permitting documentation only. No historic properties affected.
ConocoPhillips Alaska, Inc.	2006	Letter Re Drill Site 2G Line Replacement	None	Permit documentation only. In support of proposed removal of 16,000 ft of 8-inch water injection pipe to be replaced with new 6-inch carbon steel pipeline. No historic properties affected.
ConocoPhillips Alaska, Inc.	2006	Letter Re Drill Site 3C-3, 4, 12, & 14, and Drill Site 3Q-2, 3, 4, 10, & 11 Thermosyphon Installations	None	Permit documentation only. In support of proposed installation of nine thermosyphons at existing locations. No historic properties affected.
ConocoPhillips Alaska, Inc.	2006	Letter Re Drill Sites 3A and 3F Helical Anchor Installation	None	Permit documentation only. In support of proposed installation of ten helical anchors to existing well houses at drill sites 3A and 3F; No historic properties affected.

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ConocoPhillips Alaska, Inc.	2006	Letter Re Oliktok Point Road Culvert Maintenance	None	Permit documentation only. In support of proposed removal of existing culverts at each of the two culvert batteries along the Oliktok Point Road to be replaced with 60 inch steel culverts. No historic properties affected.
ConocoPhillips Alaska, Inc.	2006	Letter Re Drill Site 2W Access Road Culvert Upgrade	None	Permit documentation only. In support of proposed replacement of existing corrugated metal culvert at Kalubik Creek with two steel pipe culverts. No historic properties affected.
ConocoPhillips Alaska, Inc.	2006	Letter Re Drill Site 2M-12, 13, 20, 22, 24, and 25 Thermosyphon Installations	None	Permit documentation only. In support of proposed installation of six thermosyphons, one at each location. No historic properties affected.
ConocoPhillips Alaska, Inc.	2006	Letter Re: CPF2 480V Transformer Buss Upgrade, Kuparuk River Unit	None	Permit documentation only. In support of proposed addition of three pilings, three VSMs and a platform under an existing transformer. No historic properties affected.
ConocoPhillips Alaska, Inc.	2006	Letter Re Installation of One VSM, One Thermosyphon, One Well and One Well House at Drill Site 2L-319, 327, and 330	None	Permit documentation only. In support of proposed installation of one VSM, one thermosyphon, one well and one well house at each location DS 2L-319, 327, 330. No historic properties affected.
ConocoPhillips Alaska, Inc.	2006	Letter Re Mine Site B VSM Maintenance	None	Permit documentation only. In support of proposed maintenance on three existing VSMs near mine site B, including lowering the VSMs and placing 18 cubic yards of gravel around the VSMs. No historic properties affected.
ConocoPhillips Alaska, Inc.	2006	Letter Re Installation of Fiber Cable at The KCS Storage Pad	None	Permit documentation only. No historic properties affected.
ConocoPhillips Alaska, Inc.	2006	Letter Re Drill Site 2N Snowfence Installation	None	Permit documentation only. In support of proposed installation of two permanent fences on the east side of Drill Site 2N and construction of an ice road to transport equipment. No historic properties affected.
Pioneer	2006	Letter Re Installation of One Temporary Communication Tower at Each of Three Locations at Oooguruk Drillsite, Oooguruk Tie-In Pad, and The 12-Acre Pad South of Oliktok	None	Permit documentation only. In support of proposed installation of temporary communication towers at each of three locations. No historic properties affected.
Pioneer	2006	Letter Re 2006/2007 Ice Road Update, LAS 25343, Oooguruk Development Project, Update of Dec. 2005 Project and Letter Report From Reanier & Associates	None	Permit documentation only. Updated letter for proposed ice road routes. Original letter and Reanier report submitted in 2005. No historic properties affected.

Author	Date	Report Title	Survey Type	Notes
Pioneer	2006	Letter Re Installation of Temporary Communication Towers at Oooguruk Development Project	Desktop	Literature review for proposed installation of one temporary communication tower at each of three locations, including the offshore drill site in East Harrison Bay, north of the Kuparuk River unit drill site 3H, and South of Oliktok dock on gravel pads or on blocks off gravel pads. No historic properties affected.
Reanier and Associates	2006	Letter Report RE: Cultural Resources Investigations for Prospects and Access Routes Located in the Northeast National Petroleum Reserve-Alaska	Pedestrian	Report for development activities during 2005-2006 season. One site within indirect APE protected with buffer zone. No historic properties affected.
ConocoPhillips Alaska, Inc.	2005	Letter Report, Coastal Project Questionnaire and Permit Applications Re: Kuparuk Drillsite Subsidence Project	None	Permit documentation only. Request for authorization of installation of thermosyphons and helical piers. No historic properties affected.
ConocoPhillips Alaska, Inc.	2005	Letter Re Proposed Installation of KCC Light Pole	None	Permit documentation only. In support of proposed installation of a light pole on the east area of existing facility pad. No historic properties affected.
ConocoPhillips Alaska, Inc.	2005	Letter Re Proposed Installation of One VSM, One Thermosyphon, and One Well at Drill Site Number 2I-309, North Slope Borough	None	Permit documentation only. In support of proposed installation of one VSM, a new wellhouse, and a new valve shelter. No historic properties affected.
ConocoPhillips Alaska, Inc.	2005	Letter Re Drill Site 2T-40, 203 & 208 Thermosyphon, VSM, and Well Installation	None	Permit documentation only. In support of proposed installation of two VSMs, four thermosyphons, and three wells at three locations. No historic properties affected.
ConocoPhillips Alaska, Inc.	2005	Letter Re News DS 3J-101 Appraisal Wells	None	Permit documentation only. In support of proposed drilling of one well and one side track well from existing Drill Site 3J gravel pad in the Kuparuk River field. No historic properties affected.
ConocoPhillips Alaska, Inc.	2005	Letter Re Drill Sites 3K, 3N and 3Q Helical Anchor Installation	None	Permit documentation only. In support of proposed installation of approximately 26 helical anchors to existing support members of existing process flowlines. No historic properties affected.
ConocoPhillips Alaska, Inc.	2005	Letter Re News DS1Q Appraisal Well	None	Permit documentation only. In support of proposed drilling operations on the drill site 1Q gravel pad on the Kuparuk River field. No historic properties affected.
ConocoPhillips Alaska, Inc.	2005	Letter Re Proposed Tundra Valve Access Road	None	Permit documentation only. In support of proposed gravel access road near Drill Site 3N. No historic properties affected.
ConocoPhillips Alaska, Inc.	2005	Letter Re: Replacement of Twelve Culverts Along the Kuparuk River Unit Road System	None	Permit documentation only. In support of proposed replacement of existing corrugated metal pipe with steel piping at twelve locations along the Kuparuk River unit road system. No historic properties affected.
Reanier and Associates	2005	Letter Report Re Pioneer Completion of The Oooguruk Development Project	Yes. Type Unknown	Report for development activities in the Oooguruk unit. No historic properties affected.

Author	Date	Report Title	Survey Type	Notes
Reanier and Associates	2004	Cultural Resources Reconnaissance For The Reclamation Wells Project, North Slope, Alaska, 2004. Written For ConocoPhillips Alaska, Inc.	Aerial	Report for proposed access routes from the North Slope gravel road system to the six inactive drill sites scheduled for reclamation activities. No historic properties affected.
ConocoPhillips Alaska, Inc.	2004	Letter Report, Coastal Project Questionnaire and Certification Statement Re: ConocoPhillips Alaska, Inc. Application For Temporary Water Use Permit at CPF3 Area Lake, North Slope, Alaska.	None	Permit documentation only. In support of water use permit. No historic properties affected.
Armstrong Alaska, Inc.	2004	Review of Historical and Archaeological Resources For The Two Bits Prospect Drilling Program, North Slope, Alaska. Written By Gustafson, S.	None	Letter report discussing consultation with Rick Reanier. The APE had been previously cleared for drilling in a report designed for Conoco-Phillips. No historic properties affected.
ConocoPhillips Alaska, Inc.	2004	Letter Report, Coastal Project Questionnaire and Certification Statement Re: ConocoPhillips Alaska, Inc. Installation of DS 12W-16 Thermosyphon, Drill Site 2W, Well 16, Kuparuk River Unit	Unknown	Permit documentation only. Request for authorization of installation of thermosyphons and helical piers. No historic properties affected.
Reanier and Associates	2003	Archaeological and Cultural Resources Reconnaissance for the Titania, Oberon, and Placer Prospects, North Slope, Alaska, for the Year 2002	Aerial and Discretionary Pedestrian	Report for prospect development. No historic properties affected.
Reanier and Associates	2003	Archaeological and Cultural Resources Reconnaissance For The Hot Ice Prospect, North Slope, Alaska, For The Year 2002	Pedestrian	Report for proposed drilling locations and ice roads. No historic properties affected.
Reanier and Associates	2003	Letter Report and Coastal Environmental Questionnaire RE Anadarko Petroleum Corporation Minor Modification in Plan of Operations for Hot Ice # 1	Yes. Type Unknown	Report for prospect development. No historic properties affected.
CH2MHILL	2002	UNOCAL Plan of Operations Kookpuk No. 1 Reserve Pit Closure	Unknown	Report for reclamation activities. Main area of APE previously disturbed. No historic properties affected.
CH2MHILL	2002	UNOCAL Plan of Operations Kalubik Creek No. 1 Reserve Pit Closure	Unknown	Report for reclamation activities. Main area of APE previously disturbed. No historic properties affected.
Reanier and Associates	2001	Letter Report RE: Phillips Alaska, Inc. Proposal to Develop Drill Site 3S (DS-3S), Written for Phillips Alaska	Aerial and Pedestrian	Report for proposed road, pipeline, pads, and other corridors. No historic properties affected.

Author	Date	Report Title	Survey Type	Notes
Reanier and Associates	2001	Letter Report RE: Anadarko Petroleum Corporation Proposal to Explore Two New Prospects, Whiskey Gulch A and Whiskey Gulch B	Aerial and Pedestrian	Report for proposed prospects, drilling pads, lade access routes, and ice roads. No historic properties affected.
USAF 611th Civil Engineers Squadron	1999	DEW & AC&W Roads, Gravel Pads, and Airfields National Register Eligibility AHRS Data Correspondence	N/A	Collection of correspondence between the Air Force and Alaska SHPO concerning eligibility of roads, gravel pads, and airfields present at Distant Early Warning (DEW) and Aircraft Control and Warning (AC&W) facilities for the NRHP. It includes site cards and aerial photographs of the relevant sites.
Lobdell and Associates	1998	Nuiqsut Natural Gas Pipeline Archeological and Cultural Resources Reconnaissance, North Slope, Alaska	Aerial	Report for proposed natural gas pipeline connecting to the already permitted Alpine Project Pipeline. One adjacent archaeological site (HAR-00158) protected by avoidance by construction personnel. No historic properties affected.
Lobdell and Associates	1998	1998 Greater Kuparuk Area Exploration Archeological and Cultural Resources Reconnaissance, North Slope, Alaska	Aerial and Discretionary Pedestrian	Report for Greater Kuparuk area exploration well sites and access routes. Relevant areas included in Silver Bow, Palm, and Telegraph exploration well alternatives. No adverse effects.
BLM	1998	BLM Assessment of Archaeological, Historic, and Paleontological Resources, F-92488, EA 98-083, Ron Yarnell, Wilderness: Alaska/Mexico	Desktop	Permit documentation for commercial river guiding permit. Assessment states that numerous cultural resources are known to be in the area, but standard guiding activities should not disturb them. Recommended granting permit with standard stipulations re newly discovered cultural resources.
Lobdell and Associates	1997	1997 Greater Kuparuk Area Exploration Archeological and Cultural Resources Reconnaissance, North Slope, Alaska	Aerial and Discretionary Pedestrian	Report for multiple proposed well sites and access routes. Relevant areas included in Telegraph 1-4 and Arete 1-6 exploration well site alternatives. No sites within the APE; two historic aged sites outside of the APE and several pingos that were pointed out for avoidance measures. Ni historic properties affected.
Lobdell and Associates	1996	Supplemental Report: Alpine Development Project Archeological and Cultural Resources Reconnaissance, North Slope, Alaska, Written For Arco Alaska, Inc.	Aerial and Discretionary Pedestrian	Report for exploration activities including construction and mining (for gravel materials). No historic properties affected,
BLM	1996	BLM Assessment of Archaeological, Historic, and Paleontological Resources, Serial No.:F-86516, Applicant Is O.J. Smith, Umiat Enterprises;	Desktop	Permit documentation for renewal of guiding permit. Assessment states that numerous cultural resources are known to be in the area, but standard guiding activities should not disturb them. Recommended granting permit with standard stipulations re newly discovered cultural resources and added that the permittee should advise clients not to disturb discovered remains.

Author	Date	Report Title	Survey Type	Notes
BLM	1996	BLM Assessment of Archaeological, Historic, and Paleontological Resources, Serial No.:F-91572, Applicant Is Ray S. Smith, Umiat Enterprises	Desktop	Permit documentation for guiding permit. Assessment states that numerous cultural resources are known to be in the area, but standard guiding activities should not disturb them. Recommended granting permit with standard stipulations re newly discovered cultural resources and added that the permittee should advise clients not to disturb discovered remains.
BLM	1995	BLM Assessment of Archaeological, Historic, and Paleontological Resources, Serial No.:F-91540, Applicant Is Western Geophysical Company	Desktop	Permit documentation for geophysical exploration activities. Assessment states that cultural resources are known to be in the area, but snow cover and frozen ground should mitigate disturbances. Recommended granting permit with standard stipulations re newly discovered cultural resources.
Lobdell and Associates	1993	Kuparuk River Unit Exploration Well "K" Archaeological and Cultural Resources Reconnaissance, North Slope, Alaska	Aerial and Discretionary Pedestrian	Report for a proposed well site. Access route was not finalized at the time of survey, but author suggests access route likely free of cultural resources. No historic properties affected.
Lobdell and Associates	1993	Colville River #1 Exploration Well Archaeological and Cultural Resources Reconnaissance, North Slope, Alaska	Aerial and Pedestrian	Report for a proposed well site. Access route was not finalized at the time of survey, but author suggests access route likely free of cultural resources. No historic properties affected.
BLM	1993	BLM Assessment of Archeological, Historic, and Paleontological Resources, F-88520, W.J. Sands, Western Geophysical Exploration	Desktop	Permit documentation for seismic exploration activities. Assessment states that snow cover and frozen ground should mitigate any disturbances to cultural resources. Recommended granting permit with standard stipulations re newly discovered cultural resources.
Lobdell and Associates	1991	Kuparuk River Field Archaeological and Cultural Resources Reconnaissance, North Slope, Alaska, for 1992	Aerial and Discretionary Pedestrian	Report for proposed exploration activities in the Kuparuk River field. No historic properties affected.
BLM	1991	BLM Assessment of Archeological, Historic, and Paleontological Resources, F-87197, Steve Chronic, North Slope Borough	Desktop	Permit documentation for dredging activities. States that paleontological resources may be found but recommended granting permit with standard stipulations.
BLM	1991	BLM Assessment of Archeological, Historic, and Paleontological Resources, F-87980, Sarah Newman, North Slope Borough, CIP Division	Desktop	Permit documentation for dredging activities. No known cultural resources within APE, recommended granting permit with standard stipulations.
BLM	1991	BLM Assessment of Archeological, Historic, and Paleontological Resources, F-86838, Donald Troutman, Alaska North Sport & Recreation, Inc	Desktop	Permit documentation for renewal of guiding permit. At time of literature review it was not clear where the applicant expected to set camps. The area contained many archaeological sites, some of which are listed on the National Register. There were also many sites that had not been surveyed. Suggested further contact with the applicant essential.

Author	Date	Report Title	Survey Type	Notes
BLM	1991	BLM Assessment of Archeological, Historic, and Paleontological Resources, F-86530, Richard A. Guthrie	Desktop	Permit documentation for renewal of guiding permit. At time of literature review it was not clear where the applicant expected to set camps. The area contained many archaeological sites, some of which are listed on the National Register. There were also many sites that had not been surveyed. Suggested further contact with the applicant essential.
BLM	1991	BLM Assessment of Archeological, Historic, and Paleontological Resources, F-86516, O.J. Smith, Umiat Enterprises, Inc.	Desktop	Permit documentation for renewal of guiding permit. Assessment states that numerous cultural resources are known to be in the area, but standard guiding activities should not disturb them. Recommended granting permit with standard stipulations re newly discovered cultural resources and added that the permittee should advise clients not to disturb discovered remains.
Lobdell and Associates	1989	An Archeological Reconnaissance of the Proposed Construction Localities at the Prudhoe Bay and Kuparuk River Fields, Alaska 1989	Aerial and Discretionary Pedestrian; Selective Subsurface	This report is the eleventh in a continuing yearly series of preconstruction reconnaissance for ARCO Alaska, Inc. The majority of the results of proposed construction site cultural resource surveys were negative. Exploration Drill Site #2 and its alternatives may require special precautions, including protection, monitoring, or excavation of a historic and prehistoric archaeological site on a nearby pingo. Exploration Drill Sites #10 and #11 require avoidance of the known historic village of Qalvi and the nearby cemetery. No adverse effects.
Lobdell and Associates	1986	The Kuparuk Pingo Site: A Northern Archaic Hunting Camp of the Arctic Coastal Plain, North Alaska	Pedestrian and Excavation	Report on excavation and artifacts collected at the Kuparuk Pingo Site (XBP-033). Includes an aerial photo of the site, a photograph of some of the artifacts and catalog.
Lobdell, J.E.	1982	An Archeological Reconnaissance of the Proposed Construction Localities at the Prudhoe Bay and Kuparuk River Fields Alaska for 1982	Aerial and Discretionary Pedestrian; Selective Subsurface	This report is the fifth in a continuing yearly series of preconstruction reconnaissance for ARCO Alaska, Inc. No sites were found within the proposed development areas. Oliktok Point (XBP-002), Qulvi (HAR-015), and Qulvi Graves (HAR-016) are discussed because they are adjacent. No adverse effects.

Note: N/A (Not Applicable)

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Appendix XII.2

Section 106 Letter of Concurrence

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THE STATE
of **ALASKA**
GOVERNOR BILL WALKER

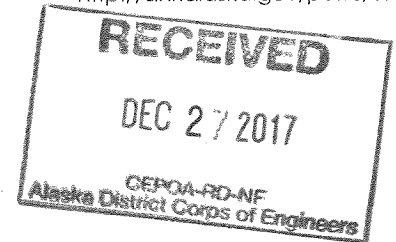
Department of Natural Resources

DIVISION OF PARKS & OUTDOOR RECREATION
Office of History & Archaeology

550 West 7th Ave., Suite 1310
Anchorage, Alaska 99501-3565
Main: 907.269.8721
<http://dnr.alaska.gov/parks/oha>

December 18, 2017

File No.: POA-2015-25
2017-01353



Ellen Lyons
Project Manager
U.S. Army Corps of Engineers, Alaska District
2175 University Avenue, Suite 201E
Fairbanks, AK 99709-4927

Subject: Determination of Effect for the Nanushuk Development Project

Dear Ms. Lyons:

We received your correspondence (dated December 5, 2017) on December 8, 2017 concerning the Nanushuk Development Project. We reviewed this undertaking for potential impacts to historic and archaeological resources pursuant to Section 106 of the National Historic Preservation Act.

We concur with your finding of No Adverse Effect for the proposed project, with the stipulation provided by your office:

- To the extent possible, project facilities will be located outside of a 500-foot buffer from documented cultural resources.

As stipulated in 36 CFR 800.3, other consulting parties such as the local government and Tribes are required to be notified of the undertaking. Additional information provided by the local government, Tribes, or other consulting parties may cause our office to re-evaluate our comments and recommendations. Please note that our response does not end the 30-day review period provided to other consulting parties.

Should unidentified archaeological resources be discovered in the course of the project, work must be interrupted until the resources have been evaluated in terms of the National Register of Historic Places eligibility criteria (36 CFR 60.4), in consultation with our office.

Thank you for the opportunity to comment. Please contact Sarah Meitl at 907-269-8720 or sarah.meitl@alaska.gov, if you have any questions or if we can be of further assistance.

Sincerely,

A handwritten signature in cursive script, appearing to read "Judith E. Bittner".

Judith E. Bittner
State Historic Preservation Officer

JEB:sjm