

UNITED STATES GOVERNMENT
MEMORANDUM

SEP 02 1987

To: Supervisor, District Office
From: Petroleum Engineer, District Office
Subject: 1987 Island Inspection Trip Report

On August 27, 1987, the Alaska OCS Region conducted its annual island inspection trip. A list of attendees is on the following page. During this trip we landed and inspected the following islands: Tern, BF-37, Seal, Sandpiper and Mukluk. Additionally, we flew over the CIDS, the SSDC, Lease OCS-Y 0302 (where Amoco's Mars ice island was located during the 1986 drilling season) and we flew the coast line looking for evidence of pollution from Kuparuk west to Cape Helkett.

Two major points were brought out from this inspection. Tern Island had three positive sheen tests and a distinct hydrocarbon odor emanating from the sediments. Sandpiper Island has been severely eroded and the two wellheads (OCS-Y 0370 No. 1 and OCS-Y 0371 No. 1) are approximately 120 feet from the existing north side of the island. Both points are expanded upon in this write up.

During this inspection trip the District Office conducted sheen tests of the gravel on all islands except Mukluk. (In conducting a sheen test a 1 foot diameter hole is dug 12-18 inches deep. Approximately one quart of sea water is collected and a sample of gravel from the hole is mixed with the sea water and allowed to stand for 5 to 10 minutes. Each test was conducted in a separate mixing vessel, so as not to contaminate other samples of gravel). In addition, measurements were taken of the dimensions of BF-37 and Sandpiper Island.

Three sheen tests were conducted on Tern Island. One sample was taken from the north side of the island by the fuel pits. The second sample was taken on the east side of the drilling substructure and the third was taken from the center of the island. All three tests produced patchy, milky white colored sheens. Upon digging into the island a distinct hydrocarbon odor, probably diesel fuel was detected. The odor is more than likely due to the diesel adhering to the surface of the gravel. In time the fuel will probably be washed out of the island.

Overall, Tern was left by Shell in a state of disarray. All of the drilling equipment were left on the island. In addition to positive sheen tests, hydraulic fluid was found dripping from pipe rams in the rig substructure.

BF-37 was the cleanest of the four islands tested. Two sheen tests were conducted; one where the fuel tanks were and one in the area of the wellheads. Both tests were negative.

	Y0180 #1	Fig	GA
	Y0191 #1		"
	Y0195 #1		"
	Y0370 #1		"
	Y0371 #1		"
✓	Y0302 #1	GA	
	Y0334 #1	GA	

Measurements were taken on this island with a 100 foot long tape measure. The east to west measurement was 500 feet and the north to south measurement was 605 feet. This island is in the process of being eroded by the sea, with the east side of the island being hardest hit.

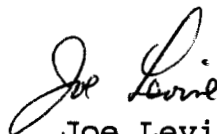
While on Seal Island two sheen tests were conducted. One at the wellheads, between the state well BF-47 and the Federal Well OCS-Y 0180 No. 1. The second test was taken on the east side of the island in the vicinity of where the fuel tanks were located. Both tests showed very slight traces of milky white colored, patchy sheens. No hydrocarbon odor from the gravel was detected. The island is in good physical shape with no major erosional features present. One additional item that should be mentioned is that Federal Well OCS-Y 0180 No. 1 had no well identification tag on it. This tag was present on the wellhead during the July 1986 island inspection trip.

The final island where sheen tests were conducted is Sandpiper. One test was conducted from a location between the two wellheads and the second test was taken from the northeast side of the island where the fuel tanks were setup. Both tests produced similar results as those on Seal Island. Slight traces of milky white colored patchy sheens were detected. No hydrocarbon odors were present in the gravel.

The major problem with Sandpiper is that of erosion. Many of the sandbags were gone and a large sand plume was coming from the north side of the island. Erosion had also bent the skirting around the dock on the south side of the island. The major problem on Sandpiper, from a safety point of view, was the erosion on the north side of the island. The existing north edge of the island is only 120 feet from the OCS-Y 0370 wellhead. The erosion of this side of the island should be monitored closely and slowed if possible. About 70 feet of sediment has been eroded from the island in the past year.

LIST OF ATTENDEES

Allen Adams	Joe Levine
Teresa Conner	Tom Murrell
Randy Howell	Evert Tornfelt
Yil Kuranel	Frank Wendling


Joe Levine

bcc:✓102-01(a) ISP 1-5 Area/District
Chron Area/District
CC Chron
J. Levine
JLevine:n11:08-31-87:JL2.doc

P.R. Chromanski 8-11-87

AUG 11 1987

Amoco Production Company
Attention: Mr. Kurt Unger
P.O. Box 100779
Anchorage, Alaska 99510

Gentlemen:

Enclosed are copies of the letters of Determination of
Producibility you requested. The determination letters are
for the Amoco wells drilled in the Alaskan OCS since the
summer drilling season of 1985.

Sincerely,

~~Orig. Sent. By~~ Brian Schoof

Brian F. Schoof
Supervisor, District Office
Field Operations

Enclosure

bcc: OCS-Y 0302 6A Area/District
OCS-Y 0371 6A Area/District
OCS-Y 0560 6A Area/District
OCS-Y 0639 6A Area/District
OCS-Y 0673 6A Area/District
OCS-Y 0707 6A Area/District
✓ OCS-Y 0719 6A Area/District
Chron Area/District
Cir Chron
RD Chron
Doug Chromanski
DChromanski:nll:08-11-87:a:dc12.doc

0302 6A

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FEB 17 1987

RECEIVED

Anchorage, Alaska

ENGINEERING SUMMARY

Amoco Production Company - Mars Project
Well OCS-Y 0302 #1

MAR 16 1987

REGIONAL SUPERVISOR
FIELD OPERATION
MINERALS MANAGEMENT SERVICE

I. Summary.

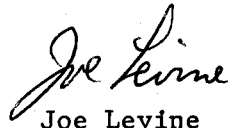
Amoco tested this well by conducting one Drill Stem Test (DST), consisting of four flow periods and four buildup periods from perforations located at 7345' to 7365' measured depth, total vertical depth (MD,TVD). This DST was conducted through 9-5/8" OD, L-80, 53.5 lb./ft. casing using 5.0" drillpipe on April 15 and 16, 1986, with its primary objective being the Ivishak Formation. Wellhead choke sizes during the test ranged from 16/64" to 30/64". This test employed a 23 barrel (bbl) water cushion. Based on the analysis of the DST results and other data submitted by Amoco, this well should be determined as non-productible in accordance with the provisions of Alaska OCS Order No. 4.

II. Test Data.

A total of 39.5 bbls of formation fluids was produced to the surface during this test. Flow period No. 4 produced formation water at an average rate of 439 Stock Tank Barrels Per Day (STB/D). The formation water was slightly gas cut with gas volumes too small to measure. The formation water produced during the last two hours of flow contained 18,000 ppm chlorides. Only a trace of oil was produced during the flow periods. One downhole fluid sample was recovered at the surface.

III. Analysis.

Shut-in periods 2,3, and 4 were analyzed using standard log-log and Horner plot techniques. All shut-in periods yielded an initial reservoir pressure for the Ivishak Formation of approximately 3718 psia. Reservoir temperature was determined to be 206° F. Shut-in period No. 4 yielded a permeability of 20.5 millidarcies with a skin value of +84 indicating severe damage. This damage was the result of drilling and cementing operations. Shut-in period No. 4 showed a radius of investigation of 602 feet. No flow barriers were indicated during the DST.


Joe Levine

bcc: ✓ OCS-Y 0302, File 6A Area/District
Chron Area/District

JLevine:lw:2-17-87:Eng. Summary

02302, 6c

DChoromanski 3-16-87

MAR 16 1987

Amoco Production Company
Attention: Mr. C. L. Conrad
P.O. Box 800
Denver, Colorado 80201

Gentlemen:

In response to your Producibility Determination letter of September 29, 1986, for Well OCS-Y 0302 No. 1, "Mars Prospect," Beaufort Sea, Alaska, and in accordance with Alaska OCS Order No. 4, we concur with your determination that Well OCS-Y 0302 No. 1, is non-productible.

Sincerely,

(Orig. Sgd.) Brian Schoof

Brian F. Schoof
Supervisor, District Office
Field Operations

bcc: ✓ OCS-Y 0302, 6A Area/District
Chron Area/District
RD Chron
D. Choromanski

DChoromanski:lw:3-14-87

0302 6A

R. Choromanski 3/20

UNITED STATES GOVERNMENT
MEMORANDUM

MAR 13 1987

To: Regional Supervisor, FO

From: Supervisor, DO

Subject: Wells OCS-Y 0302 No. 1, "Mars," -- Non-Producibility

Attached is a draft of the letter to Amoco re: Determination of Producibility for Well OCS-Y 0302 No. 1, "Mars Prospect," which is being submitted to you for your comments and/or concurrence.

Brian F. Schoof
Brian F. Schoof *Acting*

2 Attachments
Draft Letter to Amoco
Memo from District Geologist,
3-13-87

CONCUR

NON-CONCUR

(Orig. Sgd.) Barry A. Boudreau MAR 13 1987
Acting

(Name and Date)

(Name and Date)

bcc: ✓ OCS-Y 0302 No. 1, 6A Area/District w/cy attach
Chron Area/District w/o cy attach
D. Choromanski w/o cy attach

DChoromanski:lw:3-13-87

0302#1
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RECEIVED
Anchorage, Alaska

MAR 13 1987

REGIONAL SUPERVISOR
FIELD OPERATION
MINERALS MANAGEMENT SERVICE

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Brian F. Schoof

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3-13-87

CONCUR

NON-CONCUR

Barry A. Boulton 3-13-87
(Name and Date) Acting

(Name and Date)

JD Choromanski 3-13-87

DRAFT

Amoco Production Company
Attention: Mr. C. L. Conrad
P.O. Box 100779
Anchorage, AK 99510

Gentlemen:

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Sincerely,

Brian F. Schoof
Supervisor, District Office
Field Operations

bcc: OCS-Y 0302, 6A Area/District
Chron Area/District
RD Chron
D. Choromanski

DChoromanski:lw:3-13-87

UNITED STATES GOVERNMENT
MEMORANDUM

MAR 13 1987

To: Supervisor, District Office

From: District Geologist

Subject: Producibility Determination for Amoco's Well OCS-Y 0302 #1,
Beaufort Sea, Alaska

Amoco Production Company (Amoco) spudded well OCS-Y 0302 #1 on March 12, 1986. This exploratory well was drilled from an ice island constructed in 25 ft. of water on Block 140 NR 5-4, Beaufort Sea, Alaska. The well was permitted as an 8300 ft. measured depth (MD)/true vertical depth (TVD), straight hole. The primary objective, as stated in Amoco's Exploration Plan was:

"The Mars anomaly is a large northwest southeast trending stratigraphic trap on the south flank of the Barrow "Arch." It is defined on its northern limits by truncation of the Ivishak sandstone and Lisburne formation. West closure is delineated by intersecting structural contours with the Ivishak pinchout and eastern closure by the "structural" saddle between Mars and the Mukluk (Venus) structure. The saddle is believed to be a topographic low and developed by erosion on the Ivishak sandstone. As with Prudhoe Bay, Mars is an early trap combining structure and truncation and sealed by the Neocomian Pebble Shale and Upper Cretaceous pro-delta shales."

Well OCS-Y 0302 #1 was drilled to a total depth of 7982 ft. MD/7970 ft. TVD. The geotechnical evaluation consisted of running well logs, taking sidewall core samples, and attempting Repeat Formation Tester (RFT) evaluations. Utilizing the results of this geotechnical evaluation, Amoco decided to test a 20 ft. interval within the primary objective, the Ivishak Formation, for hydrocarbons and reservoir characteristics. Based on the results of this testing program, Well OCS-Y 0302 #1 was determined to be non-productible and was plugged and permanently abandoned on April 27, 1986.

The following is a summary of the well data submitted by Amoco for Well OCS-Y 0302 #1 and our evaluation of the well based on this well data:

A. Time Stratigraphic Correlation.

1. Time Stratigraphic Correlation based on Amoco's Well Completion Report.

<u>Measured Depth</u>	<u>Age (Formation)</u>
7197 ft.	Neocomian (Pebble Shale)
7350 ft.	Triassic (Ivishak)
7613 ft.	Permo-Triassic (Kavik Shale)
7659 ft.	Permo-Triassic (Kavik Sand)
7708 ft.	Mississippian (Lisburne)
7871 ft.	Mississippian (Kayak)

2. Biostratigraphic Report.

Amoco submitted a complete Paleontological Report for the Mars well. Palynology examinations were performed on 81 cuttings and 5 sidewall cores with the following biostratigraphic correlation prepared:

<u>Depth Interval</u>	<u>Age</u>
75 - 210 ft.	Plio-Pleistocene
210 - 420 ft.	Miocene
420 - 600 ft.	Oligocene
600 - 750 ft.	Late/middle Eocene
750 - 900 ft.	Mid/early Eocene
900 - 1890 ft.	Paleocene
1890 - 2100 ft.	Late Cretaceous, Maestrichtian
2100 - 2280 ft.	Late Cretaceous, Campanian
2280 - 2790 ft.	Late Cretaceous, early Senonian
2790 - 3300 ft.	Late Cretaceous, late Turonian
3300 - 3900 ft.	Late Cretaceous, early Turonian/Cenonian
3900 - 5880 ft.	Early Cretaceous, late/mid Albian
5880 - 7200 ft.	Early Cretaceous, Albian/Aptian
7200 - 7350 ft.	Early Cretaceous, late Neocomian (Pebble Shale)
7350 - 7690 ft.	Late Triassic (Ivishak)
7690 - 7870 ft.	Mississippian (Lisburne)
7870 - 7953 ft.	Argillite; age unknown (pre-Mississippian)

B. Well Summary Report.

1. Formation Pore Pressure.

Formation pore pressures were normal down to approximately 3400 ft. at which point mudweights gradually increased to 9.0 ppg at 4100 ft. Mudweights were increased to 9.6 ppg below 4100 ft. due to increased backround and connection gas. Below 5700 ft., pore pressures dropped to 9.0 ppg and remained within the normal range down to approximately 7000 ft.; 9.7 ppg mud was used below 7000 ft. to control poor well conditions. A minor increase pressure transition zone was indicated below 7000 ft.

2. Formation Overburden Pressure.

The following comments were presented in the Well Report: "Overburden pressure gradients have been used as a tool for abnormal pressure detection" and "Geopressure often occurs in claystone, and, due to the abnormally high porosity the bulk density is exceeding low." Well OCS-Y 0302 #1 was not over pressured above expected formation overburden pressures.

3. Formation Fracture Pressure.

The only interval which indicated an abnormal fracture gradient was penetrated at 7780 ft. Within this carbonate interval 65 barrels of drilling mud were lost to the formation. Drilling data suggests this zone is highly fractured.

C. Geochemical Report.

Eight (8) samples were analyzed by Core Labs Geochemical Services for Amoco. The interval analyzed was between 7213 ft. to 7848 ft. The first three samples were from the Neocomian section. These samples show low source rock potential, due primarily to the indigenous bitumen within the sample. The sample taken at 7350 ft. was entering the oil generating thermal window, whereas the shallower samples were immature for the generation of hydrocarbons. The remaining five samples were from reservoir rocks within the Ivishak and Lisburne formation and contained residual migrated hydrocarbons. The source rock for this reservoir interval is from a deeper buried source.

D. Core Data.

1. Conventional Core Data.

Well OCS-Y 0302 #1 was not conventionally cored.

2. Sidewall Cores (SWCs).

Fifty (50) SWCs were attempted within the interval 7213 ft. to 7908 ft.; thirty-seven (37) samples of which were recovered. Good to fair oil shows were observed in all the SWCs from 7352 ft. down to the final SWC recovered at 7848 ft. All these samples were from the reservoir objectives, the Ivishak and Lisburne formations. All the SWCs indicated moderate to faint hydrocarbon (HC) odor, and even to uneven dark brown to light brown staining. The fluorescence was spotty to none with colors primarily strong to pale yellows and bright to dull gold. Porosity and permeability values appeared generally poor to at best fair.

Core Labs performed an analyses on thirteen SWCs. The samples analyzed were from the interval 7357 ft. to 7715 ft. Only four SWCs were suitable for permeability analyses; note below:

<u>Depth</u>	<u>Permeability</u>	<u>Porosity</u>	<u>Lithology</u>
7540 ft.	6.6	23.3	Sandstone VF-Fine grain
7671 ft.	4.9	23.8	Sandstone VF-Fine grain
7678 ft.	46	23	Sandstone VF-Fine grain
7682 ft.	38	23.8	Sandstone VF-Fine grain

Helium porosity value for the samples analyzed ranged from 20% to 33.5%. All the sandstone samples analysed contained a slight percentage of oil in their pore space.

Amoco had a Petrographic Analysis performed on three SWCs by Core Lab. The results of this analysis indicated that the porosity values obtained in this standard Dean-Stark Analysis may be high. The thin sections did not support the high porosity values suggested by the analysis. The expandable clay content appears relatively high, which in time would reduce porosity values.

E. Mudlog Evaluation.

1. Oil Shows and Gas Chromatograph.

There were no oil shows indicated on the mudlog. Several intervals did indicate increased gas chromatograph reading. The interval 1680 ft. to 1755 ft. had a subtle increase in background gas and in the C_3-C_5 readings, this may be attributed to "TAR," which was noted as being recovered. The interval, 3915 ft. to 3975 ft., recorded significant increases in the background gas and connection gas readings; there was no corresponding increase in the C_3-C_5 readings which would suggest the gas being recorded was methane. The lithology column also indicated oil was observed over the "shakers" in the interval 4175 ft. to 4200 ft., which also had significant increases in the background gas and increases in the C_2-C_5 and cut analysis readings. There were similar responses in the intervals 5375 ft. to 5426 ft., 6040 ft. to 6095 ft.; and 7350 ft. to 7365 ft. These intervals also indicated oil as being observed in the returns.

2. Lithology.

The lithology information on the mudlog has been sublamented with age and formation data derived from the biostratigraphic report and the Well Completion Report.

<u>Depth Interval</u>	<u>Age</u>	<u>Formation</u>	<u>Primary Lithology</u>
0 - 210 ft.	Plio-Pleistocene	Gubik	Clay
210 - 420 ft.	Miocene	Sagavariaktok	Clays to sand and gravel
420 - 600 ft.	Oligocene	Sagavariaktok	Sand and gravel to clay
600 - 750 ft.	Late-Mid Eocene	Sagavariaktok	Clay, sand, and gravel
750 - 900 ft.	Mid-Early Eocene	Sagavariaktok	Sand and gravel, coal
900 - 1890 ft.	Paliocene	Sagavariaktok	Sand and gravel, coal, clay
1890 - 2100 ft.	L. Cret. Maestrichtian	Colville	Sand and gravel, siltstone, clay
2100 - 2280 ft.	L. Cret. Campanian	Colville	Sand and gravel, siltstone
2280 - 2790 ft.	L. Cret. E. Santonian	Colville	Siltstone, tuff shale
2790 - 3300 ft.	L. Cret. L. Turonian	Colville	Siltstone, sandstone
3300 - 3900 ft.	L. Cret. Turonian/Cenomanian	Colville	Tuff, siltstone, clay, shale
3900 - 5880 ft.	E. Cret. Albian	Nanushuk/Torok	Clay, siltstone, shale,, trace Dolomite, sandstone, and coal (TAR)
5880 - 7200 ft.	E. Cret. Albian/Aptian	Torok	Shale, siltstone, claystone, trace sandstone, tuff
7200 - 7350 ft.	E. Cret Neocomian	Pebble Shale	Shale, trace limestone
7350 - 7690 ft.	Late Triassic	Ivishak	Sandstone/sandstone conglomerate, shale
7690 - 7860 ft.	Mississippian	Lisburne	Limestone, Dolomite, shale
7860 - TD	Pre-Mississippian	Argillite	Quartzite

E. Well Log Evaluation.

The SP/GR curves depict very poor sandstone development down to 7350 ft. Sandstones which are present appeared to be thin and high in silt and clay content. Below 7350 ft. down to 7690 ft., the Ivishak sandstones are well developed. The braided stream depositional environment typical of the Ivishak formation is well depicted by the SP/GR curves. The resistivity curve down to 7350 ft. lacks any significant responses typical of hydrocarbons. The highest resistivity values appear to be associated with thin coal deposits.

There were no significant porosity responses observed in the well between approximately 4690 ft. and 7350 ft. The porosity values within this interval ranged between 6% and 20% on the density porosity curve, whereas the interval 4520 ft. to 4668 ft., had density porosity readings consistently above 30%. The remainder of the shallow section of the hole had density porosity readings between 15% and 30%.

Below 7350 ft., within the Ivishak and Lisburne formations, the resistivity responses were significantly higher, yet not significantly enough to suggest recoverable hydrocarbons as being present.

The porosity responses suggests that the Ivishak formation is fairly tight with porosity values commonly less than 10%.

F. Well Test Data.

A comprehensive reservoir report has been prepared by the District (see Attachment 1). Based on the results of the geotechnical evaluation, only one interval (7345 ft. to 7365 ft., see Attachment 2) in the Ivishak formation was selected for testing. The results of the well test were in agreement with what was suggested by the well logs; the formation is relatively tight and water wet. The test produced an average of 439 bpd of formation fluids with only a trace of oil and an amount of gas too small to accurately measure. Based on the results of the testing program, Well OCS-Y 0302 #1 should be determined non-productible.

A reservoir summation is being prepared for Well OCS-Y 0302 No. 1 by the District utilizing the Resource Evaluation Well Log Analysis Computer and will be submitted when complete.

Conclusion:

Well OCS-Y 0302 No. 1 was tested with only a trace of oil and only moderate amounts of water being produced from the Ivishak formation. This indicates that the well was located off structure or the hydrocarbons, which once were in the reservoir have migrated up structure. These hydrocarbons may have migrated along bounding faults or unconformities into shallower traps; or may have been lost to the environment. If the hydrocarbons are located higher up the structure, the chances of having a trap of sufficient areal and vertical extent to support development is very remote. The Exxon "Orion" Prospect Well OCS-Y 0804 No. 1 was located approximately 7 miles north of the Mars Prospect and was missing the entire Sag River, Ivishak, and Lisburne sections;; this reduces the potential for any Ivishak Prospect to the north. Results from the drilling and testing programs on Exxon's Antares wells OCS-Y 0280 No. 1 and No. 2, and the NPRA well W. T. Foran No. 1, further reduces the potential for significant hydrocarbon accumulation in the Ivishak west of Mars. The Mukluk well eliminates the potential of significant hydrocarbon accumulations east of Mars.



Douglas R. Choromanski

2 Attachments

FEB 17 1987

ENGINEERING SUMMARY

Amoco Production Company - Mars Project
Well OCS-Y 0302 #1

I. Summary.

Amoco tested this well by conducting one Drill Stem Test (DST), consisting of four flow periods and four buildup periods from perforations located at 7345' to 7365' measured depth, total vertical depth (MD,TVD). This DST was conducted through 9-5/8" OD, L-80, 53.5 lb./ft. casing using 5.0" drillpipe on April 15 and 16, 1986, with its primary objective being the Ivishak Formation. Wellhead choke sizes during the test ranged from 16/64" to 30/64". This test employed a 23 barrel (bbl) water cushion. Based on the analysis of the DST results and other data submitted by Amoco, this well should be determined as non-productible in accordance with the provisions of Alaska OCS Order No. 4.

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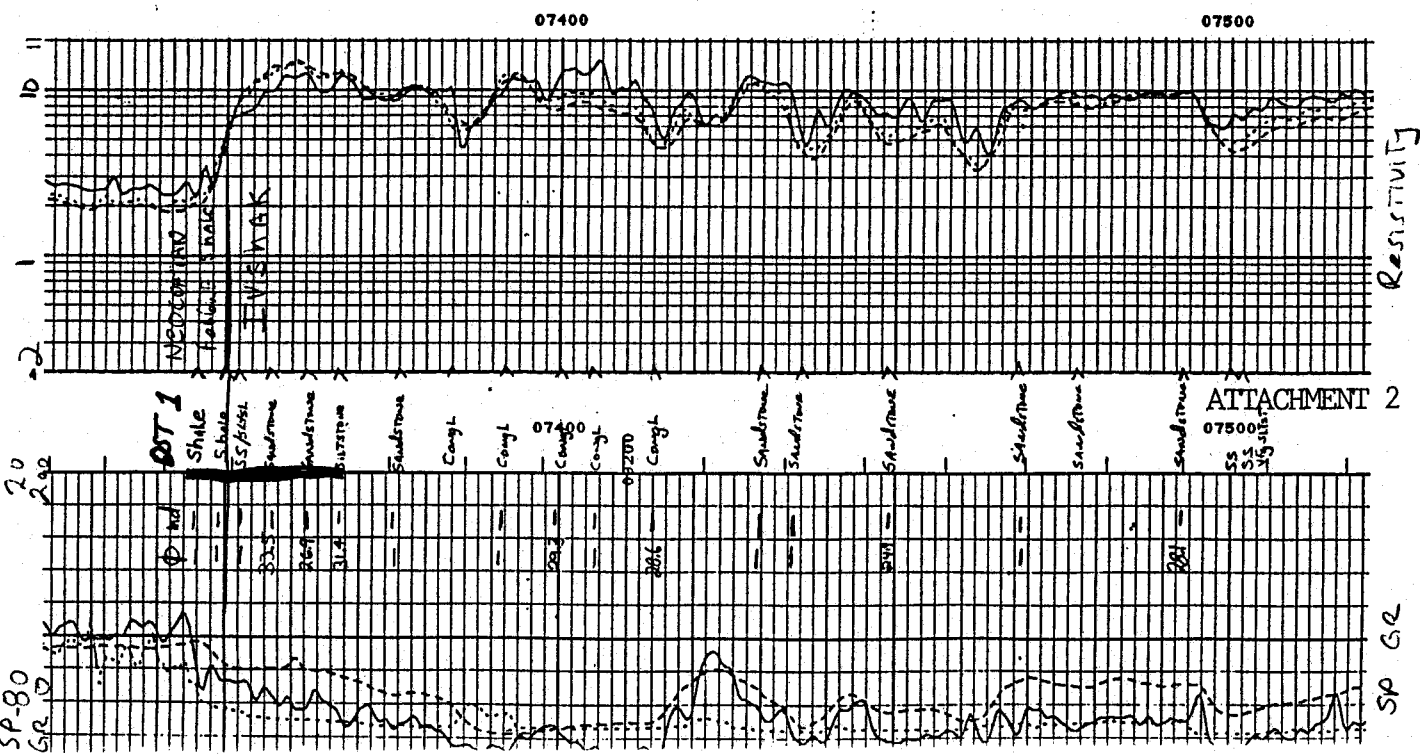
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Joe Levine

ATTACHMENT 1

ATTACHMENT 2



3-13-87 DRH/monish

UNITED STATES GOVERNMENT
MEMORANDUM

MAR 13 1987

To: Supervisor, District Office

From: District Geologist

Subject: Producibility Determination for Amoco's Well OCS-Y 0302 #1,
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3900 - 5880 ft.	Early Cretaceous, late/mid Albian
5880 - 7200 ft.	Early Cretaceous, Albian/Aptian
7200 - 7350 ft.	Early Cretaceous, late Neocomian (Pebble Shale)
7350 - 7690 ft.	Late Triassic (Ivishak)
7690 - 7870 ft.	Mississippian (Lisburne)
7870 - 7953 ft.	Argillite; age unknown (pre-Mississippian)

B. Well Summary Report.

1. Formation Pore Pressure.

Formation pore pressures were normal down to approximately 3400 ft. at which point mudweights gradually increased to 9.0 ppg at 4100 ft. Mudweights were increased to 9.6 ppg below 4100 ft. due to increased background and connection gas. Below 5700 ft., pore pressures dropped to 9.0 ppg and remained within the normal range down to approximately 7000 ft.; 9.7 ppg mud was used below 7000 ft. to control poor well conditions. A minor increase pressure transition zone was indicated below 7000 ft.

2. Formation Overburden Pressure.

The following comments were presented in the Well Report: "Overburden pressure gradients have been used as a tool for abnormal pressure detection" and "Geopressure often occurs in claystone, and, due to the abnormally high porosity the bulk density is exceeding low." Well OCS-Y 0302 #1 was not over pressured above expected formation overburden pressures.

3. Formation Fracture Pressure.

The only interval which indicated an abnormal fracture gradient was penetrated at 7780 ft. Within this carbonate interval 65 barrels of drilling mud were lost to the formation. Drilling data suggests this zone is highly fractured.

C. Geochemical Report.

Eight (8) samples were analyzed by Core Labs Geochemical Services for Amoco. The interval analyzed was between 7213 ft. to 7848 ft. The first three samples were from the Neocomian section. These samples show low source rock potential, due primarily to the indigenous bitumen within the sample. The sample taken at 7350 ft. was entering the oil generating thermal window, whereas the shallower samples were immature for the generation of hydrocarbons. The remaining five samples were from reservoir rocks within the Ivishak and Lisburne formation and contained residual migrated hydrocarbons. The source rock for this reservoir interval is from a deeper buried source.

D. Core Data.

1. Conventional Core Data.

Well OCS-Y 0302 #1 was not conventionally cored.

2. Sidewall Cores (SWCs).

Fifty (50) SWCs were attempted within the interval 7213 ft. to 7908 ft.; thirty-seven (37) samples of which were recovered. Good to fair oil shows were observed in all the SWCs from 7352 ft. down to the final SWC recovered at 7848 ft. All these samples were from the reservoir objectives, the Ivishak and Lisburne formations. All the SWCs indicated moderate to faint hydrocarbon (HC) odor; and even to uneven dark brown to light brown staining. The fluorescence was spotty to none with colors primarily strong to pale yellows and bright to dull gold. Porosity and permeability values appeared generally poor to at best fair.

Core Labs performed an analyses on thirteen SWCs. The samples analyzed were from the interval 7357 ft. to 7715 ft. Only four SWCs were suitable for permeability analyses; note below:

<u>Depth</u>	<u>Permeability</u>	<u>Porosity</u>	<u>Lithology</u>
7540 ft.	6.6	23.3	Sandstone VF-Fine grain
7671 ft.	4.9	23.8	Sandstone VF-Fine grain
7678 ft.	46	23	Sandstone VF-Fine grain
7682 ft.	38	23.8	Sandstone VF-Fine grain

Helium porosity value for the samples analyzed ranged from 20% to 33.5%. All the sandstone samples analysed contained a slight percentage of oil in their pore space.

Amoco had a Petrographic Analysis performed on three SWCs by Core Lab. The results of this analysis indicated that the porosity values obtained in this standard Dean-Stark Analysis may be high. The thin sections did not support the high porosity values suggested by the analysis. The expandable clay content appears relatively high, which in time would reduce porosity values.

E. Mudlog Evaluation.

1. Oil Shows and Gas Chromatograph.

There were no oil shows indicated on the mudlog. Several intervals did indicate increased gas chromatograph reading. The interval 1680 ft. to 1755 ft. had a subtle increase in background gas and in the C_3 - C_5 readings, this may be attributed to "TAR," which was noted as being recovered. The interval, 3915 ft. to 3975 ft., recorded significant increases in the background gas and connection gas readings; there was no corresponding increase in the C_3 - C_5 readings which would suggest the gas being recorded was methane. The lithology column also indicated oil was observed over the "shakers" in the interval 4175 ft. to 4200 ft., which also had significant increases in the background gas and increases in the C_2 - C_5 and cut analysis readings. There were similar responses in the intervals 5375 ft. to 5426 ft., 6040 ft. to 6095 ft., and 7350 ft. to 7365 ft. These intervals also indicated oil as being observed in the returns.

2. Lithology.

The lithology information on the mudlog has been sublated with age and formation data derived from the biostratigraphic report and the Well Completion Report.

<u>Depth Interval</u>	<u>Age</u>	<u>Formation</u>	<u>Primary Lithology</u>
0 - 210 ft.	Plio-Pleistocene	Gubik	Clay
210 - 420 ft.	Miocene	Sagavariaktok	Clays to sand and gravel
420 - 600 ft.	Oligocene	Sagavariaktok	Sand and gravel to clay
600 - 750 ft.	Late-Mid Eocene	Sagavariaktok	Clay, sand, and gravel
750 - 900 ft.	Mid-Early Eocene	Sagavariaktok	Sand and gravel, coal
900 - 1890 ft.	Pliocene	Sagavariaktok	Sand and gravel, coal, clay
1890 - 2100 ft.	L. Cret. Maestrichtian	Colville	Sand and gravel, siltstone, clay
2100 - 2280 ft.	L. Cret. Campanian	Colville	Sand and gravel, siltstone
2280 - 2790 ft.	L. Cret. E. Santonian	Colville	Siltstone, tuff shale
2790 - 3300 ft.	L. Cret. L. Turonian	Colville	Siltstone, sandstone
3300 - 3900 ft.	L. Cret. Turonian/Cenomanian	Colville	Tuff, siltstone, clay, shale
3900 - 5880 ft.	E. Cret. Albion	Nanushuk/Torok	Clay, siltstone, shale,, trace Dolomite, sandstone, and coal (TAR)
5880 - 7200 ft.	E. Cret. Albion/Aptian	Torok	Shale, siltstone, claystone, trace sandstone, tuff
7200 - 7350 ft.	E. Cret Neocomian	Pebble Shale	Shale, trace limestone
7350 - 7690 ft.	Late Triassic	Ivishak	Sandstone/sandstone conglomerate, shale
7690 - 7860 ft.	Mississippian	Lisburne	Limestone, Dolomite, shale
7860 - TD	Pre-Mississippian	Argillite	Quartzite

E. Well Log Evaluation.

The SP/GR curves depict very poor sandstone development down to 7350 ft. Sandstones which are present appeared to be thin and high in silt and clay content. Below 7350 ft. down to 7690 ft., the Ivishak sandstones are well developed. The braided stream depositional environment typical of the Ivishak formation is well depicted by the SP/GR curves. The resistivity curve down to 7350 ft. lacks any significant responses typical of hydrocarbons. The highest resistivity values appear to be associated with thin coal deposits.

There were no significant porosity responses observed in the well between approximately 4690 ft. and 7350 ft. The porosity values within this interval ranged between 6% and 20% on the density porosity curve, whereas the interval 4520 ft. to 4668 ft., had density porosity readings consistently above 30%. The remainder of the shallow section of the hole had density porosity readings between 15% and 30%.

Below 7350 ft., within the Ivishak and Lisburne formations, the resistivity responses were significantly higher, yet not significantly enough to suggest recoverable hydrocarbons as being present.

The porosity responses suggests that the Ivishak formation is fairly tight with porosity values commonly less than 10%.

F. Well Test Data.

A comprehensive reservoir report has been prepared by the District (see Attachment 1). Based on the results of the geotechnical evaluation, only one interval (7345 ft. to 7365 ft., see Attachment 2) in the Ivishak formation was selected for testing. The results of the well test were in agreement with what was suggested by the well logs; the formation is relatively tight and water wet. The test produced an average of 439 bpd of formation fluids with only a trace of oil and an amount of gas too small to accurately measure. Based on the results of the testing program, Well OCS-Y 0302 #1 should be determined non-productible.

A reservoir summation is being prepared for Well OCS-Y 0302 No. 1 by the District utilizing the Resource Evaluation Well Log Analysis Computer and will be submitted when complete.

Conclusion:

Well OCS-Y 0302 No. 1 was tested with only a trace of oil and only moderate amounts of water being produced from the Ivishak formation. This indicates that the well was located off structure or the hydrocarbons, which once were in the reservoir have migrated up structure. These hydrocarbons may have migrated along bounding faults or unconformities into shallower traps; or may have been lost to the environment. If the hydrocarbons are located higher up the structure, the changes of having a trap of sufficient areal and vertical extent to support development is very remote. The Exxon "Orion" Prospect Well OCS-Y 0804 No. 1 was located approximately 7 miles north of the Mars Prospect and was missing the entire Sag River, Ivishak, and Lisburne sections,; this reduces the potential for any Ivishak Prospect to the north. Results from the drilling and testing programs on Exxon's Antares wells OCS-Y 0280 No. 1 and No. 2, and the NPRA well W. T. Foran No. 1, further reduces the potential for significant hydrocarbon accumulation in the Ivishak west of Mars. The Mukluk well eliminates the potential of significant hydrocarbon accumulations east of Mars.

Orig. Signed by D. Choromanski

Douglas R. Choromanski

2 Attachments

bcc: ~~Well~~ OCS-Y 0302, 6A Area/District w/cy attach
Chron Area/District w/o cy attach

DChoromanski:lw:3-13-87

FEB 17 1987

ENGINEERING SUMMARY

Amoco Production Company - Mars Project
Well OCS-Y 0302 #1

I. Summary.

Amoco tested this well by conducting one Drill Stem Test (DST), consisting of four flow periods and four buildup periods from perforations located at 7345' to 7365' measured depth, total vertical depth (MD,TVD). This DST was conducted through 9-5/8" OD, L-80, 53.5 lb./ft. casing using 5.0" drillpipe on April 15 and 16, 1986, with its primary objective being the Ivishak Formation. Wellhead choke sizes during the test ranged from 16/64" to 30/64". This test employed a 23 barrel (bbl) water cushion. Based on the analysis of the DST results and other data submitted by Amoco, this well should be determined as non-productive in accordance with the provisions of Alaska OCS Order No. 4.

II. Test Data.

A total of 39.5 bbls of formation fluids was produced to the surface during this test. Flow period No. 4 produced formation water at an average rate of 439 Stock Tank Barrels Per Day (STB/D). The formation water was slightly gas cut with gas volumes too small to measure. The formation water produced during the last two hours of flow contained 18,000 ppm chlorides. Only a trace of oil was produced during the flow periods. One downhole fluid sample was recovered at the surface.

III. Analysis.

Shut-in periods 2,3, and 4 were analyzed using standard log-log and Horner plot techniques. All shut-in periods yielded an initial reservoir pressure for the Ivishak Formation of approximately 3718 psia. Reservoir temperature was determined to be 206° F. Shut-in period No. 4 yielded a permeability of 20.5 milidarcies with a skin value of +84 indicating severe damage. This damage was the result of drilling and cementing operations. Shut-in period No. 4 showed a radius of investigation of 602 feet. No flow barriers were indicated during the DST.


Joe Levine

District Office

FEB 17 1987

DATA TRANSMITTAL FORM

<u>Lease</u>	<u>Well</u>
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Description

0180	#1	1 Transmitted + 2 Page Confidential SB PA + 2 Pages
0302	#1	1 Transmitted + 4 Page Confidential SB PA + 2 Pages
0463	#1	1 Transmitted + 2 Page Confidential SB PA + 2 Pages
0398	#1	1 Transmitted + 3 Page Confidential SB PA + 2 Pages
0407	#1	1 Transmitted + 3 Page Confidential SB PA + 2 Pages
0586	#1	2 Page Confidential + 2 Pages

∴ 33 Page Total

Signed By:

Date:

Provided To:

(Section)

11 a. Borrowed Data

... Date Borrowed Data Returned:

The undersigned accepts responsibility for the security of the proprietary data listed above until it is returned to the District Office, and agrees to abide by the restrictions on proprietary data storage and use. The material must be kept in a Security Area when not in active use. The borrower may not duplicate, divulge, or transmit these data to another office without the prior approval of the District Supervisor.

b. Transmitted Data to OFO Vault

Please acknowledge receipt by signing below and retaining the original copy of this form for your records.

Signature:

Date:

~~CONFIDENTIAL~~ / Dist / 1st

Amoco Production Company
Attention: Mr. C. L. Conrad
P.O. Box 800
Denver, Colorado 80201

DEC 10 1986

Gentlemen:

The enclosed Inventory and Disposition List of Amoco Well Data has been prepared during the purging of our well data files. The excess sepia copies of well data are being returned and the blue line copies of duplicate data have been shredded per our previous conversation. This inventory list has been forwarded to you for your records.

At this time we wish to acknowledge our gratitude for your cooperation in submitting well data in a complete and most timely manner.

Sincerely,

(Orig. Sgd.) Brian Schoof

Brian F. Schoof
Supervisor, District Office
Field Operations

cc: Mr. W. G. Smith
Amoco Production Company
P.O. Box 100779
Anchorage, Alaska 99510

bcc: OCS-Y 0560 Well No. 1, 6A A/D
OCS-Y 0639 Well No. 1, 6A A/D
OCS-Y 0673 Well No. 1, 6A A/D
✓ OCS-Y ~~0673~~ Well No. 1, 6A A/D (0302)
OCS-Y 0719 Well No. 1, 6A A/D
Doug Choromanski
Chron Area/District

DChoromanski:n11:12-10-86:\cd5.doc

0302
67

INVENTORY OF SURPLUS DATA FROM
OCS-Y 0302 WELL NO. 1

The following Blueline copies have been shredded:

2" Dual Inductin focused Log Gamma Ray (paper copy)
Borehole Acoustic Log Gamma Ray (paper copy)

1:240 Exlog DLWD
1:240 Exlog DLWD
1:600 Exlog DLWD
1:600 Exlog Integrated Mud/GED Plot
(2) 1:3000 Exlog Drilling Data Pressure Log
(2) 1:3000 Exlog Mud Resistivity Log
(2) 1:3000 Exlog Pressure Evaluation Log
(2) 1:3000 Exlog Temperature Log



Amoco Production Company

Post Office Box 100779
Anchorage, Alaska 99510
907-272-8471

W. G. Smith
District Manager

September 29, 1986

File: FEW-239-WF (Mars)

TIGHT HOLE

U. S. Department of Interior
Minerals Management Service
District Office
P. O. Box 101159
Anchorage, Alaska 99510-1159

Attention: Brian F. Schoof

Gentlemen:

Producibility Determination
OCS-Y-0302 Well No. 1 (Mars)

In response to your letter of September 3, 1986 requesting an Application for Determination of Well Producibility and pursuant to OCS Order No. 4, Amoco Production Company submits the following:

Based on mud log shows, cased hole drill stem tests, and open hole logs, OCS-Y-0302 Well No. 1 (Mars), is not capable of producing oil or gas from its lease in "paying quantity".

Sincerely,

W. G. Smith
District Manager

cc: C. L. Conrad - Denver

KWU:cm

RECEIVED
OCS DISTRICT OFFICE

OCT 2 1986

MINERALS MANAGEMENT SERVICE
ANCHORAGE, ALASKA

DISTRICT FILE 6A



W. G. Smith
District Manager

September 23, 1986

File: FEW-235-WF

U. S. Department of Interior
Minerals Management Service
District Office
P. O. Box 101159
Anchorage, Alaska 99510-1159

Attention: Brian Schoof

Gentlemen:

Missing Geologic Data
Correspondence Address Change

In order to expedite Amoco's response to your requests for missing geologic data, in the future please address all such correspondence to:

Amoco Production Company
P. O. Box 800
Denver, Colorado 80201
Attention: C. L. Conrad

Carbon Copy to:

Amoco Production Company
P. O. Box 100779
Anchorage, Alaska 99510
Attention: W. G. Smith

A list of wells to which this address change applies is attached.

Very truly yours,

W. G. Smith
District Manager

cc: C. L. Conrad - Denver

KWU:cm

Amoco Production Company

Post Office Box 100779
Anchorage, Alaska 99510
907-272-8471

NOTED
SEP 25 1986
SCHOOF

RECEIVED
OCS DISTRICT OFFICE

SEP 25 1986
MINERALS MANAGEMENT SERVICE
ANCHORAGE, ALASKA

Y0302 #1
6A

Attachment

OCS-Y-0639 Well No. 1 - "Danielle"

OCS-Y-0560 Well No. 1 - "George"

OCS-Y-0673 Well No. 1 - "Misha"

OCS-Y-0707 Well No. 1 - "Nicole"

OCS-Y-0719 Well No. 1 - "Nancy"

OCS-Y-0371 Well No. 1 - "Sandpiper"

OCS-Y-0302 Well No. 1 - "Mars"

J.R. Chomel 9/3/86

RECEIVED

Anchorage, Alaska

SEP 11 1986

SEP 3 1986

REGIONAL SUPERVISOR
FIELD OPERATION
MINERALS MANAGEMENT SERVICE

CERTIFIED MAIL --
RETURN RECEIPT REQUESTED

Amoco Production Company
Attention: Mr. W. G. Smith
District Manager
P.O. Box 100779
Anchorage, AK 99510

Gentlemen:

The Conditions of Approval to Drill for Oil and Gas for Well OCS-Y 0302 No. 1, "Mars," states under Item 7, "Submit two copies of all well reports, geochemical analyses, and core analyses as soon as available."

Under Item 8 it is stated "Submit as soon as available two copies of a paleontological identification report of all foraminifera, nannoplankton and/or palynomorphs by depth, if prepared, and two copies of any velocity surveys, if run."

Our letter dated August 7, 1986, requested the data listed below to be submitted by August 22, 1986.

1. Sidewall Core (SWC) descriptions and analysis. (The Daily Reports of Operations indicated 50 SWCs were attempted; we received only a portion of this data.)
2. Borehole Seismic Log (second copy).
3. Two (2) copies of any biostratigraphic or micropaleontological data if prepared.

Alaska OCS Order No. 4 requires that an Application for Determination of Well Producibility be submitted within 60 days after the drilling rig has been moved from the well.

Choromanski 8/28/86

CERTIFIED MAIL--
RETURN RECEIPT REQUESTED

AUG 28 1986

Amoco Production Company
Attention: Mr. H. B. Zaremba
P.O. Box 102600
Anchorage, Alaska 99510

Gentlemen:

In reviewing our well data files, we observed the following data has not been received per your approved Exploration Plans and the enclosed Guidelines for Collection of Meteorological, Oceanographic and Performance data:

- 1) OCS-Y 0302 Meteorological and Oceanographic data (Met and Ocean), all.
- 2) OCS-Y 0560 Met and Ocean data for September and October.
- 3) OCS-Y 0673 Met and Ocean data for September and October.

Please submit this data by September 27, 1986, to the following address:

Minerals Management Service
Regional Supervisor, Field Operations, 6th Floor
949 East 36th Avenue
Anchorage, Alaska 99508

Sincerely,

Orig. Sgnd. By Nabil F. Masri
Nabil Masri
Acting Supervisor, District Office
Field Operations

Enclosure

bcc: ✓ OCS-Y 0302 Well No. 1 6A Area/District
OCS-Y 0560 Well No. 1 6A Area/District
OCS-Y 0673 Well No. 1 6A Area/District
Chron Area/District
Doug Choromanski

DChoromanski:n11:08-28-86

2044/0725
Jen
Tyci 8/21/86

Through: District Supervisor
Regional Supervisor, Field Operations
Supervisor, ORA Section

Updating of Well Data Files

Information requested by your office in a memorandum dated August 11, 1986 is only partially complete.

Meteorological and oceanographic data has not been submitted for the following leases: OCS-Y 0180, OCS-Y 0181, OCS-Y 0302, OCS-Y 0370, and OCS-Y 0371. In addition, the following leases have incomplete submittals:

<u>Well</u>	<u>Data not received</u>
OCS-Y 0463	February
OCS-Y 0560	September and October
OCS-Y 0673	September and October

According to Order No. 2, these data are to be submitted after well completion. These data are necessary to complete a forthcoming report on comparisons of actual collected information with predicted conditions for the different lease areas.

✓ bcc: OCS-Y 0180 (area/dist)
(x-ref other files listed)
Chron (area/dist/ora)
CC
YKuranel
JNauman

RYKuranel:pam:8/18/86:ocean and met
Rewritten:JNauman:kdr:8/18/86
Rewritten:kdr:8/19/86
Final:kdr:8/20/86

UNITED STATES GOVERNMENT

Memorandum

TO : Regional Supervisor, Field Operations
Attention: John Nauman

DATE: AUG 13 1986
RECEIVED
Anchorage, Alaska

FROM : Supervisor, District Office

AUG 13 1986

SUBJECT: Updating of District Well Data Files

REGIONAL SUPERVISOR
FIELD OPERATION
MINERALS MANAGEMENT SERVICE

In our continuing effort to update our well data files, we are requesting that you review your inventory of meteorological and oceanographic data for the wells listed below. Please notify this office by August 20, 1986, as to whether any data is still outstanding. If we have not received any notification to the contrary, we will consider these wells as being in compliance:

OCS-Y 0180	OCS-Y 0583
OCS-Y 0302	OCS-Y 0586
OCS-Y 0370	OCS-Y 0599
OCS-Y 0371	OCS-Y 0639
OCS-Y 0398	OCS-Y 0673
OCS-Y 0407	OCS-Y 0707
OCS-Y 0425	OCS-Y 0719
OCS-Y 0463	OCS-Y 0804
OCS-Y 0560	OCS-Y 0849

Sincerely,


Brian F. School



5010-108

Buy U.S. Savings Bonds Regularly on the Payroll Savings Plan

D Choromanski 3/6/86

TO Regional Supervisor, Field Operations
Attention: John Nauman

FROM Supervisor, District Office

SUBJECT Updating of District Well Data Files

In our continuing effort to update our well data files, we are requesting that you review your inventory of meteorological and oceanographic data for the wells listed below. Please notify this office by August 20, 1986, as to whether any data is still outstanding. If we have not received any notification to the contrary, we will consider these wells as being in compliance:

OCS-Y 0180	OCS-Y 0583
OCS-Y 0302	OCS-Y 0586
OCS-Y 0370	OCS-Y 0599
OCS-Y 0371	OCS-Y 0639
OCS-Y 0398	OCS-Y 0673
OCS-Y 0407	OCS-Y 0707
OCS-Y 0425	OCS-Y 0719
OCS-Y 0463	OCS-Y 0804
OCS-Y 0560	OCS-Y 0849

Sincerely,

(Orig. Sgd.) Brian Schoof

Brian Schoof

bcc: OCS-Y 0180 Well No. 1, 6A, Area/District
✓ OCS-Y 0302 Well No. 1, 6A, Area/District
OCS-Y 0370 Well No. 1, 6A, Area/District
OCS-Y 0371 Well No. 1, 6A, Area/District
OCS-Y 0398 Well No. 1, 6A, Area/District
OCS-Y 0407 Well No. 1, 6A, Area/District
OCS-Y 0425 Well No. 1, 6A, Area/District
OCS-Y 0463 Well No. 1, 6A, Area/District
OCS-Y 0560 Well No. 1, 6A, Area/District
OCS-Y 0583 Well No. 1, 6A, Area/District
OCS-Y 0586 Well No. 1, 6A, Area/District
OCS-Y 0599 Well No. 1, 6A, Area/District
OCS-Y 0639 Well No. 1, 6A, Area/District
OCS-Y 0673 Well No. 1, 6A, Area/District
OCS-Y 0707 Well No. 1, 6A, Area/District
OCS-Y 0719 Well No. 1, 6A, Area/District
OCS-Y 0804 Well No. 1, 6A, Area/District
OCS-Y 0849 Well No. 1, 6A, Area/District
Chron Area/District

DChoromanski:lw:8-11-86

0302
10A

PZ Choromanski 8/7/86

AUG 7 1986

Amoco Production Company
Attention: W. G. Smith
District Manager
P.O. Box 100779
Anchorage, AK 99510

Gentlemen:

In reviewing our well data files for Lease OCS-Y 0302, Well No. 1, "Mars," we observed the following data has not been received.

1. Sidewall Core (SWC) descriptions and analysis. (The Daily Report of Operations indicated 50 SWCs were attempted; we have only a portion of this data.)
2. Borehole Seismic Log. (We require two (2) copies; we have received one copy.)
3. We request two (2) copies of any biostratigraphic or micropaleontological data prepared.

Please submit this data by August 22, 1986, to the District Office at the following address:

Minerals Management Service
District Office
949 East 36th Ave., Suite 503
Anchorage, AK 99508

Sincerely,

~~(Orig. Sent) Brian Schoof~~
Brian F. Schoof
Supervisor, District Office
Field Operations

bcc: ✓ OCS-Y 0302, Well No. 1, 6A Area/District
Chron Area/District
Doug Choromanski
DChoromanski:lw:8-7-86

0302,
1A

PR Choromanski 8/2/86

TO Supervisor, Resource Evaluation
THROUGH Supervisor, Field Operations
FROM Supervisor, District Office

AUG 6 1986

SUBJECT Updating of District Well Data Files

In our continuing effort to update our well data files, we are requesting that you review your inventory of samples for the wells listed below. Please notify this office by August 18, 1986, as to whether any samples are still outstanding. If we have not received any notification to the contrary, we will consider these wells as being in compliance:

OCS-Y 0180	OCS-Y 0583
OCS-Y 0302	OCS-Y 0586
OCS-Y 0370	OCS-Y 0599
OCS-Y 0371	OCS-Y 0639
OCS-Y 0398	OCS-Y 0673
OCS-Y 0407	OCS-Y 0707
OCS-Y 0425	OCS-Y 0719
OCS-Y 0463	OCS-Y 0804
OCS-Y 0560	OCS-Y 0849

Sincerely,

(Orig. Sgd.) Brian Schoof
Brian Schoof
Supervisor, District Office

bcc: OCS-Y 0180, Well No. 1, 6A Area/District
✓OCS-Y 0302, Well No. 1, 6A Area/District
OCS-Y 0370, Well No. 1, 6A Area/District
OCS-Y 0371, Well No. 1, 6A Area/District
OCS-Y 0398, Well No. 1, 6A Area/District
OCS-Y 0407, Well No. 1, 6A Area/District
OCS-Y 0425, Well No. 1, 6A Area/District
OCS-Y 0463, Well No. 1, 6A Area/District
OCS-Y 0560, Well No. 1, 6A Area/District
OCS-Y 0583, Well No. 1, 6A Area/District
OCS-Y 0586, Well No. 1, 6A Area/District
OCS-Y 0599, Well No. 1, 6A Area/District
OCS-Y 0639, Well No. 1, 6A Area/District
OCS-Y 0673, Well No. 1, 6A Area/District
OCS-Y 0707, Well No. 1, 6A Area/District
OCS-Y 0719, Well No. 1, 6A Area/District
OSC-Y 0804, Well No. 1, 6A Area/District
OSC-Y 0849, Well No. 1, 6A Area/District
Chron Area/District
DChoromanski:nll:08-06-86



Amoco Production Company

Post Office Box 100779
Anchorage, Alaska 99510
907-272-8471

W. G. Smith
District Manager

August 4, 1986

TIGHT HOLE

File: WGS-192-WF (Mars)

U. S. Department of Interior
Minerals Management Service
District Office
P. O. Box 101159
Anchorage, Alaska 99510-1159

Attn: Brian Schoof

RECEIVED
OCS DISTRICT OFFICE

AUG 04 1986
MINERALS MANAGEMENT SERVICE
ANCHORAGE, ALASKA

Gentlemen:

Form MMS-330, Well Completion or Recompletion Report and Log
OCS Y 0302 Mars No. 1

Please find attached two copies of Amoco Production Company's revised public information copy of the Well Completion or Recompletion Report and Log for the above mentioned well.

Very truly yours,

W. G. Smith/REN

W. G. Smith
District Manager

Attachments

REN/crc

302 H 1

64



Amoco Production Company

Post Office Box 100779
Anchorage, Alaska 99510
907-272-8471

W. G. Smith
District Manager

RECEIVED
Anchorage, Alaska

June 19, 1986

JUN 19 1986

File: WGS-157-WF (Mars)

U. S. Department of Interior
Minerals Management Service
District Office
P. O. Box 101159
Anchorage, Alaska 99510-1159

REGIONAL SUPERVISOR
FIELD OPERATION
MINERALS MANAGEMENT SERVICE

Attention: Mr. Rodney Smith

Dear Mr. Smith:

Mars Project Status

Please be advised that Amoco is still monitoring the Mars Ice Island. We anticipate a maximum of two more visits to the site over the next month. We will be forwarding monitoring data to you as soon as it is completed and ready for distribution at the end of our activities on the project site.

Please also be advised that we are sending a crew to clean up the project area and remove all solid waste materials from the site this week. Additionally, we will be sending a clean-up crew again next week to remove newly accumulated debris; if any.

Thank you very much for your consideration.

Sincerely,

W. G. Smith
District Manager

CAW/crc

0302, 6A



Amoco Production Company

Post Office Box 100779
Anchorage, Alaska 99510
907-272-8471

W. G. Smith
District Manager

June 3, 1986

File: WGS-150-WF (Mars)

Mr. Rodney Smith
U. S. Dept. of the Interior
Minerals Management Service
P. O. Box 101159
Anchorage, Alaska 99510-1159

Dear Mr. Smith:

Mars Prospect, OCS-Y-0302
Demobilization: Cleanup

Pursuant to Cheryl Winkler's conversation with Jeff Walker on May 28th, please be advised that Amoco Production Company is currently conducting inspections on the state of the ice island in order to ascertain when the island will begin to break up as well as float off the bottom. There are thermistors still in place on the island which will not be removed prior to the time the island breaks up. Per Mr. Walker's request, all monitoring information will be forwarded to the Minerals Management Service at the time of completion of that data.

Thank you very much for your interest in the project. Please contact Cheryl Winkler at (907) 261-8294 or (907) 562-2147.

Sincerely,

W. G. Smith
District Manager

CAW/crc

*sent
cc to District*

RECEIVED
Anchorage, Alaska

JUN 03 1986

REGIONAL SUPERVISOR
FIELD OPERATION
MINERALS MANAGEMENT SERVICE

Received

JUN 03 1986

ORA Section

0302,64



Amoco Production Company

Post Office Box 100779
Anchorage, Alaska 99510
907-272-8471

W. G. Smith
District Manager

RECEIVED
OCS DISTRICT OFFICE

RECEIVED
Anchorage, Alaska

May 20, 1986

JUN 03 1986

MAY 21 1986

File: WGS-140-422.914 (Mars)

MINERALS MANAGEMENT SERVICE
ANCHORAGE, ALASKA

REGIONAL SUPERVISOR
FIELD OPERATION
MINERALS MANAGEMENT SERVICE

Mr. Rodney Smith
Regional Director
Minerals Management Service
P. O. Box 101159
Anchorage, Alaska 99510-1159

NOTED
JUN 04 1986
SCHOOF

Dear Mr. Smith:

Mars Prospect Well No. 1 (OCS-Y-0302)

Please be advised that Amoco Production Company has completed the Mars Prospect operations at Cape Halkett with the exception that we are still monitoring the disposition of the ice island. Amoco will check the island condition a total of four more times over the course of the spring and summer.

Please contact Cheryl Winkler (272-8471/263-2209) should you have questions.

Very truly yours,

W. G. Smith
District Manager

CAW/jr

104/m

ROUTING
SLIP

DATE 5/21/86

OTHER INSTRUCTIONS

STRICT
RSFO
SECRETARY
LIBRARY
READING RACK
FILE

OS I left 13AB
M. view with
Hallin/Kinard/District
and Discum
OS

Please coordinate w/
District. Is this OK?
I believe it doesn't
answer the question of
picking up themselves
! other material?

FROM;

RM

~~Recd~~ BAB
Rod/Benny
Rishi OS.

5/28/06

file - Amos Mars EP OCS-Y 0302

Discussed island abandonment with Cheryl, regarding retrieval of instrumentation left on Mars. Cheryl indicated Amos would retrieve instrumentation if possible, but expected they would be unable to do so. Cheryl would send a letter clarifying Amos's intent, and that Amos would alert the USCG if the instruments were not recovered.

TH



Amoco Production Company

Post Office Box 100779
Anchorage, Alaska 99510
907-272-8471

W. G. Smith
District Manager

May 9, 1986

File: WGS-135-WF (Mars)

U. S. Department of Interior
Minerals Management Service
District Office
P. O. Box 101159
Anchorage, Alaska 99510-1159

Attn: Brian Schoof

Gentlemen:

Dept. of the Interior Form 9-152
Monthly Report of Operations-OCS
OCS-Y-0302, Mars

Attached are the original and two copies of the Monthly Report of Operations-Outer Continental Shelf for OCS-Y-0302, Mars for the months of February, March, and April, 1986. Please note that April is the final report for the above referenced well. Also attached are two public information copies.

Very truly yours,

W. G. Smith
District Manager

Attachment

/crc

Received
OCS District Office

MAY 09 1986
Minerals Management Service
Anchorage, Alaska

DISTRICT DISTRICT Y-0302 # 6A



Amoco Production Company

4502 East 41st Street
Post Office Box 3385
Tulsa, Oklahoma 74102
Research Center

TIGHT HOLE

May 6, 1986

86120ART0026

CONFIDENTIAL

U. S. Department of Interior
Minerals Management Service
District Office
P. O. Box 101159
Anchorage, AK 99510-1159

Attention: Brian Schoof

Gentlemen:

Subject: Form MMS-330, Well Completion Report
OCS-Y-0302 Mars No. 1

Please find attached two copies plus two public information copies of the completed MMS Form 330 Well Completion Report. Also attached are the final directional survey record and well abandonment diagram.

Very truly yours,

David B. Skidmore

David B. Skidmore
Staff Drilling Engineer

DBS:jw
Attachment

cc: Well File
R. E. Neal, Anchorage
CDF Tulsa

RECEIVED
OCS DISTRICT OFFICE

MAY 21 1986

MINERALS MANAGEMENT SERVICE
ANCHORAGE, ALASKA

DISTRICT FILE Y-0302#1-6A

MAY 08 1986

Mr. W. G. Smith
District Manager
Amoco Production Company
P.O. Box 10079
Anchorage, Alaska 99510

Dear Mr. Smith:

On April 29, 1986, a Minerals Management Service representative inspected the MARS ice island abandonment for removal of all debris in accordance with OCS Order No. 3, Part 2.9, "Clearance of Location." Due to the inability to land an aircraft near the location, the inspection was done from the air. From the flight over the ice road and ice island, there were no visible signs of debris, trash, or equipment except for poles marking the location of the thermistor relays. We understand the thermistor instrumentation is still installed and that Amoco intends to continue monitoring the island as long as possible. We request Amoco clarify its plan for retrieving any remaining instrumentation after completion of Amoco's monitoring program.

We would appreciate receiving copies of any additional data obtained from your continued monitoring program. This information would be used by our structural engineer and platform verification group for future evaluation of spray ice projects and to increase our understanding of how spray ice structures behave during spring thaw.

Sincerely,

(Orig. Sgd.) Barry A. Boudreau
Regional Supervisor Acting
Field Operations

✓ bcc: OCS-Y 0302 (area/dist)
Chron (area/dist/ora)
CC
RSLE
RD Chron

6A

PHallin:pam:5/1/86:w.g. smith
Rewritten:kdr:5/5/86
Rewritten:JWalker:kdr:5/6/86
Final:kdr:5/8/86

INSTRUCTIONS: Maintain General Disposition Report
File 202.07a and record also in 7A
Area or District Well Data File as
appropriate.

DISPOSITION REPORT

LEASE NO./WELL NO. Y0302 #1

OPERATOR AMCO

TYPE OF DATA	No. of Copies	Proprietary Yes of No	Date Rec'd	Date it was Disposed of	Disposal Method	AREA	DISTRICT
RIG COPY OF APD	1	YES	12-13-85	4-29-86	SHRED		✓
<p>EXTRA COPY NO LONGER NEEDED IN DISTRICT FILES</p> <p>4-29-86</p>							

RECEIVED

Anchorage, Alaska

- ☐ Original to 202.07a General Disposition Report District File
- ☐ Copy to 202.07a General Disposition Report Area File
- ☐ Copy to District Well Data File 7A
- ☒ Copy to Area Well ~~File~~ File ~~6A~~ 6A

APR 30 1986

REGIONAL SUPERVISOR
FIELD OPERATION
MINERALS MANAGEMENT SERVICE



Amoco Production Company

Post Office Box 100779
Anchorage, Alaska 99510
907-272-8471

TIGHT HOLE

W. G. Smith
District Manager

April 29, 1986

File: WGS-128-WF (Mars)

Received
OCS District Office

APR 29 1986

U. S. Department of Interior
Minerals Management Service
District Office
P. O. Box 101159
Anchorage, Alaska 99510-1159

Minerals Management Service
Anchorage, Alaska

Attn: Brian Schoof

Gentlemen:

Form MMS-331, Sundry Notices and Reports on Wells
OCS-Y-0302 Mars No. 1

Please find attached the original and two copies of Amoco Production Company's subsequent report for permanent abandonment of the above referenced well. Also attached are two public information copies.

Very truly yours,

W. G. Smith
W. G. Smith
District Manager

Attachment

/crc

Y 0302 # 1 - NOT FILE 6A



Amoco Production Company
Post Office Box 100779 Anchorage, Alaska
Anchorage, Alaska 99510
907-272-8471

RECEIVED
FEB 17 1987

W. G. Smith
District Manager

TIGHT HOLE

April 29, 1986

File: WGS-128-WF (Mars)

REGIONAL SUPERVISOR
FIELD OPERATION
MINERALS MANAGEMENT SERVICE

Received
OCS District Office

APR 29 1986

U. S. Department of Interior
Minerals Management Service
District Office
P. O. Box 101159
Anchorage, Alaska 99510-1159

Minerals Management Service
Anchorage, Alaska

Attn: Brian Schoof

Gentlemen:

Form MMS-331, Sundry Notices and Reports on Wells
OCS-Y-0302 Mars No. 1

Please find attached the original and two copies of Amoco Production Company's subsequent report for permanent abandonment of the above referenced well. Also attached are two public information copies.

Very truly yours,

W. G. Smith
W. G. Smith
District Manager

Attachment

/crc

Y0302 #1 AREA FILE 6A

ATTACHMENT 2



Y03.241 6A AREA

MINERALS MANAGEMENT SERVICE
ALASKA OCS REGION

District Office

DATA TRANSMITTAL FORM

RECEIVED

Anchorage, Alaska

APR 17 1986

REGIONAL SUPERVISOR
FIELD OPERATION
MINERALS MANAGEMENT SERVICE

Lease Well

Description

VO 302	#1	SUNDAY NOTICE FOR PAA
		2 public information copies + 1 Confidential Copy

Signed By: Walter F... Date: 4-17-86

Provided To: OFO VAULT
(Section)

☐ a. Borrowed Data Date Borrowed Data Returned: _____

The undersigned accepts responsibility for the security of the proprietary data listed above until it is returned to the District Office, and agrees to abide by the restrictions on proprietary data storage and use. The material must be kept in a Security Area when not in active use. The borrower may not duplicate, divulge, or transmit these data to another office without the prior approval of the District Supervisor.

☒ b. Transmitted Data to OFO Vault

Please acknowledge receipt by signing below and retaining the original copy of this form for your records.

Signature: Edna M. Bruno Date: April 17, 1986

6A
VO 302 # 1
AREA



Amoco Production Company

Post Office Box 100779
Anchorage, Alaska 99510
907-272-8471

W. G. Smith
District Manager

TIGHT HOLE

April 17, 1986

File: WGS-125-WF

U. S. Department of Interior
Minerals Management Service
District Office
P. O. Box 101159
Anchorage, Alaska 99510-1159

Received
OCS District Office

APR 17 1986

Attn: Brian Schoof

Minerals Management Service
Anchorage, Alaska

Gentlemen:

Form MMS-331, Sundry Notices and Reports on Wells
OCS Y 0302 Mars No. 1

Please find attached the original and two copies of Amoco Production Company's report of drill stem testing of the above referenced well. Also attached are two public information copies.

Very truly yours,

W. G. Smith
District Manager

Attachment

/crc

DISTRICT FILE GA
ADVISORY FILE

Y03-2 #1



Amoco Production Company

Post Office Box 100779
Anchorage, Alaska 99510
907-272-8471

W. G. Smith
District Manager

April 17, 1986

File: WGS-124-WF

TIGHT HOLE

U. S. Department of Interior
Minerals Management Service
District Office
P. O. Box 101159
Anchorage, Alaska 99510-1159

Attn: Brian Schoof

Gentlemen:

Form MMS-331, Sundry Notices and Reports on Wells
OCS Y 0302 Mars No. 1

Please find attached the original and two copies of Amoco Production Company's proposed permanent abandonment of the above referenced well. Also attached are two public information copies.

Very truly yours,

W. G. Smith
W. G. Smith
District Manager

Attachment

/crc

Received
OCS District Office

APR 17 1986

Minerals Management Service
Anchorage, Alaska

X-302#

GA

dist. 1



TIGHT HOLE

Amoco Production Company

Post Office Box 100779
Anchorage, Alaska 99510
907-272-8471

W. G. Smith
District Manager

April 15, 1986

File: WGS-122-WF

U. S. Department of Interior
Minerals Management Service
District Office
P. O. Box 101159
Anchorage, Alaska 99510-1159

Attn: Brian Schoof

Gentlemen:

Form MMS-331, Sundry Notices and Reports on Wells
OCS Y 0302 Mars No. 1

Please find attached the original and two copies of Amoco Production Company's report of perforating and test procedures. Also attached are two public information copies.

Very truly yours,


W. G. Smith
District Manager

Attachment

/crc

Received
OCS District Office
OCS District Office

APR 15 1986
APR 14 1986

Minerals Management Service
Anchorage, Alaska
Received
OCS District Office

APR 15 1986

Minerals Management Service
Anchorage, Alaska

DISTRICT FILE

GA

Y03.2 #1

District Office

Lease Well

Description

[illegible]

Signed By:

Wahl Form

Date:

4-17-86

Provided To:

OF. VAULT

(Section)

11 a. Borrowed Data

Date Borrowed Data Returned:

The undersigned accepts responsibility for the security of the proprietary data listed above until it is returned to the District Office, and agrees to abide by the restrictions on proprietary data storage and use. The material must be kept in a Security Area when not in active use. The borrower may not duplicate, divulge, or transmit these data to another office without the prior approval of the District Supervisor.

~~II~~ b. Transmitted Data to OFO Vault

Please acknowledge receipt by signing below and retaining the original copy of this form for your records.

Signature:

Edna M. Bruno

Date:

April 22, 1980

0802

64



Amoco Production Company

Post Office Box 100779
Anchorage, Alaska 99510
907-272-8471

W. G. Smith
District Manager

March 31, 1986

TIGHT HOLE

File: WGS-100-WF

U. S. Department of Interior
Minerals Management Service
District Office
P. O. Box 101159
Anchorage, Alaska 99510-1159

Attn: Brian Schoof

Gentlemen:

Form MMS-331, Sundry Notices and Reports on Wells
OCS Y 0302 Mars No. 1

Please find attached the original plus two copies of Amoco Production Company's Sundry Notice for running of 13-3/8"-inch casing. Also attached are two public information copies.

Very truly yours,

W. G. Smith / RSN

W. G. Smith
District Manager

Attachments

CAH/crc

Received
OCS District Office

MAR 31 1986

Minerals Management Service
Anchorage, Alaska

DISTRICT FILE 6A
1/0302-41



Amoco Production Company

Post Office Box 100779
Anchorage, Alaska 99510
907-272-8471

W. G. Smith
District Manager

April 14, 1986

**Received
OCS District Office**

File: WGS-117-WF

APR 14 1986

U. S. Department of Interior
Minerals Management Service
District Office
P. O. Box 101159
Anchorage, Alaska 99510-1159

Minerals Management Service
Anchorage, Alaska

Attn: Brian Schoof

Gentlemen:

Form MMS-331, Sundry Notices and Reports on Wells
OCS Y 0302 Mars No. 1

Please find attached the original and two copies of Amoco Production Company's subsequent report of running 9-5/8" casing. Also attached are two public information copies.

Very truly yours,

W. G. Smith
District Manager

Attachment

/crc

DISTRICT

Y0302 #1
GA

MINERALS MANAGEMENT SERVICE
ALASKA OCS REGION

District Office

DATA TRANSMITTAL FORM

Lease

Well

Description

Y0302	1	SR RUNNING 9 5/8" CSG 2 public INF + 1 Confidential copy

Signed By:

Nah Fm

Date:

4-14-86

Provided To:

OFO VAULT

(Section)

☐ a. Borrowed Data

Date Borrowed Data Returned: _____

The undersigned accepts responsibility for the security of the proprietary data listed above until it is returned to the District Office, and agrees to abide by the restrictions on proprietary data storage and use. The material must be kept in a Security Area when not in active use. The borrower may not duplicate, divulge, or transmit these data to another office without the prior approval of the District Supervisor.

☒ b. Transmitted Data to OFO Vault

Please acknowledge receipt by signing below and retaining the original copy of this form for your records.

Signature:

Solvia M. Bruno

Date:

April 15, 1986

MINERALS MANAGEMENT SERVICE
ALASKA OCS REGION

District Office

DATA TRANSMITTAL FORM

RECEIVED
Anchorage, Alaska

APR 01 1986

REGIONAL SUPERVISOR
FIELD OPERATION
MINERALS MANAGEMENT SERVICE

<u>Lease</u>	<u>Well</u>
--------------	-------------

Description

[illegible]

Signed By: Nabil Fra Date: 4-1-86

Provided To: OFo VAULT
(Section)

~~2~~ a. Borrowed Data

... Date Borrowed Data Returned:

The undersigned accepts responsibility for the security of the proprietary data listed above until it is returned to the District Office, and agrees to abide by the restrictions on proprietary data storage and use. The material must be kept in a Security Area when not in active use. The borrower may not duplicate, divulge, or transmit these data to another office without the prior approval of the District Supervisor.

~~Transmitted Data to OFO Vault~~

Please acknowledge receipt by signing below and retaining the original copy of this form for your records.

Signature: Edna M. Bruno Date: ~~March~~ 7, 1986

6A



Amoco Production Company

Post Office Box 100779
Anchorage, Alaska 99510
907-272-8471

W. G. Smith
District Manager

March 18, 1986

TIGHT HOLE

File: WGS-090-WF

U. S. Department of Interior
Minerals Management Service
District Office
P. O. Box 101159
Anchorage, Alaska 99510-1159

Attn: Brian Schoof

Gentlemen:

Form MMS-331, Sundry Notices and Reports on Wells
OCS Y 00302 Mars No. 1

Please find attached the original plus two copies of Amoco Production Company's Sundry Notice submitting final location plats. Also attached are two public information copies.

Very truly yours,

W. G. Smith / psw
W. G. Smith
District Manager

Attachments

DBS:cm

DIRECT

OCS-Y 0302 #1
FILE #6.A.

MINERALS MANAGEMENT SERVICE
ALASKA OCS REGION

District Office

DATA TRANSMITTAL FORM

<u>Lease</u>	<u>Well</u>	<u>Description</u>
302	1	1.) SUNDAY NOTICE FOR CHANGE IN PLANS 2 PUBLIC INF + 1 CONF. COPY
		2.) " " " " " " " " " "
		3.) " " "SR NOTICE OF SPUD

Signed By: Wahf Fries Date: 3-14-86
 Provided To: OFO VAULT
 (Section)

☐ a. Borrowed Data

Date Borrowed Data Returned: _____

The undersigned accepts responsibility for the security of the proprietary data listed above until it is returned to the District Office, and agrees to abide by the restrictions on proprietary data storage and use. The material must be kept in a Security Area when not in active use. The borrower may not duplicate, divulge, or transmit these data to another office without the prior approval of the District Supervisor.

☒ b. Transmitted Data to OFO Vault

Please acknowledge receipt by signing below and retaining the original copy of this form for your records.

Signature: Shudert Robinson Date: 3/14/86

6A



Amoco Production Company

Post Office Box 100779
Anchorage, Alaska 99510
907-272-8471

W. G. Smith
District Manager

March 13, 1986

File: WGS-083-WF

TIGHT HOLE

U. S. Department of Interior
Minerals Management Service
District Office
P. O. Box 101159
Anchorage, Alaska 99510-1159

Attn: Brian Schoof

RECEIVED
OCS DISTRICT OFFICE

MAR 14 1986

MINERALS MANAGEMENT SERVICE
ANCHORAGE, ALASKA

Gentlemen:

Form MMS-331, Sundry Notices and Reports on Wells
OCS Y 00302 Mars No. 1

Please find attached the original plus two copies of Amoco Production Company's Sundry Notice requesting a change in kill mud volume maintained on location for the above well. Also attached are two public information copies.

Very truly yours,

W. G. Smith
District Manager

Attachments

DBS:cm

6A
Y-3-2 #1



Amoco Production Company

Post Office Box 100779
Anchorage, Alaska 99510
907-272-8471

W. G. Smith
District Manager

March 13, 1986

TIGHT HOLE

File: WGS-084-WF

U. S. Department of Interior
Minerals Management Service
District Office
P. O. Box 101159
Anchorage, Alaska 99510-1159

Attn: Brian Schoof

Gentlemen:

Form MMS-331, Sundry Notices and Reports on Wells
OCS Y 00302 Mars No. 1

Please find attached the original plus two copies of Amoco Production Company's Sundry Notice requesting elimination of the logging run at 1500 feet and a reduction in the logging program at 3000 feet. Logs to be run at 3000 feet will be DIL/BHC-AL/GR/SP/CAL. Also attached are two public information copies.

Very truly yours,

W. G. Smith/ron

W. G. Smith
District Manager

Attachments

DBS:cm

RECEIVED
OCS DISTRICT OFFICE

MAR 14 1986

MINERALS MANAGEMENT SERVICE
ANCHORAGE, ALASKA

FILE GA
Y030241



Amoco Production Company

Post Office Box 100779
Anchorage, Alaska 99510
907-272-8471

W. G. Smith
District Manager

TIGHT HOLE

March 13, 1986

File: WGS-081-WF

U. S. Department of Interior
Minerals Management Service
District Office
P. O. Box 101159
Anchorage, Alaska 99510-1159

Attn: Brian Schoof

Gentlemen:

Form MMS-331, Sundry Notices and Reports on Wells
OCS Y 00302 Mars No. 1

Please find attached the original plus two copies of Amoco Production Company's Sundry Notice indicating spudding of the well. Also attached are two public information copies.

Very truly yours,

W. G. Smith / REN

W. G. Smith
District Manager

Attachments
DBS:cm

RECEIVED
OCS DISTRICT OFFICE

MAR 14 1986

MINERALS MANAGEMENT SERVICE
ANCHORAGE, ALASKA

6A

Y0302#1

**U.S. DEPARTMENT OF THE INTERIOR
MINERALS MANAGEMENT SERVICE**

FILE UNDER:
*Amoco-Mars
Island Plot Verif.*

ROUTING of this TELEPHONE CONVERSATION RECORD:

1 *B. Boudreau BAB*

4

2 *J. Walker On*

5

3 *X. Keenan 17M*

6

Date: *3/13/86*

Time in office
originating
call

receiving
call *1:45P.*

NOTE: Last reader discards this copy unless it is needed other than as referenced above.

Call to:

**RECEIVED
OCS DISTRICT OFFICE
area or FTS**

MAR 14 1986

Title &
Organization

Call from:

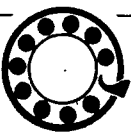
Cheryl Winkler, Amoco

Title &
Organization

area or FTS

SUBJECT:

**MINERALS MANAGEMENT SERVICE
ANCHORAGE, ALASKA**



*Cheryl called from Kuparuk facility about
the following 2 items:*

- 1. CUA report on Mars construction is likely to
be delayed by a few days. She wanted
extension from our 17th deadline to be
moved to March 21. After Discussions she
agreed to submit the report by 19th.
I told her the report should be submitted by CUA to us
directly.*
- 2. As per her their ice monitoring, recording
format is still not fully resolved. I told
her that Yil during his visit to the island
picked up a filled in form for the subject data
and that that would serve our purpose.
She had not seen this form and said
that she will ^{bring} all these forms for the period
up to 3/18 on the 18th to us. Then on they
will submit them daily.*

File



Amoco Production Company

Post Office Box 100779
Anchorage, Alaska 99510
907-272-8471

W. G. Smith
District Manager

TIGHT HOLE

March 18, 1986

File: WGS-089-WF

U. S. Department of Interior
Minerals Management Service
District Office
P. O. Box 101159
Anchorage, Alaska 99510-1159

Attn: Brian Schoof

Gentlemen:

Form MMS-331, Sundry Notices and Reports on Wells
OCS Y 00302 Mars No. 1

Please find attached the original plus two copies of Amoco Production Company's Sundry Notice for running of 20-inch casing. Also attached are two public information copies.

Very truly yours,

W. G. Smith/ren

W. G. Smith
District Manager

Attachments

DBS:cm

JTNIC

OCS-Y 0302-#1
File #6.A.

MAR 11 1986

B. 11 NR/1310
Wall 7/11/86
Tjen 3/11/86

Special Requirements - Approval Plans

Location:

G-503

NA PING NO.

PING

ENV

ACT

CK

Y

N

N/A

Exploration Plan

1. Is the operator collecting oceanographic, meteorological and performance data in accordance with the specified format?

Application for Permit to Drill

1. Is a standby vessel on location at all times when operations are being conducted?
2. If curtailment of operations is required, is it done in accordance with the COCP? (Letter to Amoco 2/24/86)
 - a. When severe weather occurs, winds are greater than 50 mph, and whiteout conditions exist, the well is shut in.
 - b. If the ice sheet movements around the island are detected to be greater than 25 feet during one event, the well is shut in.
 - c. If the above water slope of the island fringe geometry is not maintained at one, vertical, to three, horizontal, to the sea ice surface, the well is shut in. If a rubble field has formed at the sea-ice/island interface, the well is shut in.
 - d. Island pad cracking is repaired and if persistent widening of cracks, greater than 3 inches or more occurs, the well is shut in.
 - e. If excessive pad settlement and differential settlements greater than 2 feet total or greater than 2 feet differential below

0302, 6A

design elevation of +25 feet occur, the well is shut-in.

- f. If global movement of the island pad exceeds 0.1 feet, the well is shut-in.
- g. If the temperature of the water and slush mixture in the 6-foot culvert and 30-inch drive pipe annulus approaches 29°F, the water is circulated out.
- h. The following postconstruction monitoring instrumentation is installed and functional:
 - 1. monitoring of the island fringe geometry, 2. monitoring of the ice movements of the surrounding ice by the three wire ice stations, 3. settlement of the island through 7 sondex settlement tubes and 6 settlement rods, 4. pressures in the surrounding ice monitored through 3 haxpack panels and 6 horizontal flatjacks.

Stipulations

- 1. Discharge of mud cuttings are over the ice avoiding areas of sea-ice cracking and major stress factoring. (Stipulation No. 7)

Additional Requirements to be Monitored by the District which are not subject to a PINC.

- 1. The meteorological/oceanographic data must be submitted to MMS monthly.
- 2. Along with the daily report, the operator must submit daily summaries of the postconstruction monitoring data and the number of instruments not functioning. (Letter to Amoco 2/24/86)
- 3. If curtailment action is taken, the operator must submit information regarding the curtailment with the daily summaries required by No. 2 above. (Letter to Amoco 2/24/86)

0302, 6A

bcc: Mars APD correspondence
Chronos (area/dist/ora)
CC

TConner:pam:3/7/86:special
Rewritten:RYKuranel:pam:3/10/86
Rewritten:JWalker:sz:pam:3/11/86
Final:sz:3/11/86



Amoco Production Company

Post Office Box 100779
Anchorage, Alaska 99510
907-272-8471

W. G. Smith
District Manager

March 6, 1986

File: GJE-172-604.41(Mars)

Minerals Management Service
Alaska OCS Region
P. O. Box 10-1159
Anchorage, Alaska 99510

Attention: Brian Schoof
Gentlemen:

Received
OCS District Office

MAR 10 1986

Minerals Management Service
Anchorage, Alaska

Mars Freight and Scheduled Charter

Amoco will operate a Reeve Electra charter on a scheduled basis between Anchorage and Cape Halkett beginning approximately March 12, 1986. The charter will depart each Wednesday at 9:00 a.m. from the domestic terminal of the Anchorage International Airport. All personnel flying on the charter should check in by 8:00 a.m. at the Reeve ticket counter located in the departure section of the main terminal. All personnel desiring transportation on the charter flight should contact Skip Perry, Todd Morgan or Mark Moustakis at (907) 267-8532 or (907) 267-8500 no later than the preceding Monday morning for each Wednesday's flight. A preferable alternative to calling will be to send a facsimile to Skip Perry's attention listing the personnel's name, company, contact phone number, date of travel, and destination. The facsimile number is (907) 344-9559.

All vendors needing cargo shipped on the Wednesday Reeve Charter should adhere to the following procedure:

1. Contact Skip Perry at (907) 267-8532 and indicate the cargo description, number of pieces, weight and destination. Skip will indicate where the freight should be delivered.

The Reeve Electra charter flight should only be on Wednesdays. Freight needing more urgent handling or too bulky to be put on the charter will have to be transported through Deadhorse. Skip Perry, Todd Morgan or Mark Moustakis should be contacted to coordinate the best way to get the equipment to the Mars Drilling location.

Your consideration and cooperation with these matters is appreciated.

Very truly yours,

W. G. Smith
District Manager

DISTRICT FILE GA

Y.3-2 #1

MLM:cm

Amoco Production Company
Attn: Mr. W. G. Smith
P.O. Box 100779
Anchorage, AK 99510

MAR 10 1986

Gentlemen:

A preliminary rig and site inspection for Parker Rig #123, which will be used for drilling OCS-Y 0302 Well No. 1 on "Mars" Ice Island in Sale 71 Area of the Beaufort Sea, was conducted on March 8, 1986.

A final pre-drill inspection has been scheduled for March 11, 1986.

Parker Rig #123 is approved for drilling on Lease OCS-Y 0302 contingent on the rig passing the final pre-drill inspection prior to spud.

If you have any further questions, please call us at 261-4066.

Sincerely,

Orig. Sgnd. By Nabil F. Masri

for Brian F. Schoof
Supervisor, District Office
Field Operations

File: 1200-02 ISP 5-4(b) Rig Inspection & Approval, Parker #123
Area/District
OCS-Y 0302 #1, File 6A Area/District
Chron Area/District
Circ Chron
NMasri:lw:3-7-86

District Office

MAR 03 1986

DATA TRANSMITTAL FORM

Lease Well

Description

REGIONAL SUPERVISOR
FIELD OPERATION
MINERALS MANAGEMENT SERVICE

Y0302	1	2 PUBLIC INF COPIES + 1 CONFIDENTIAL COPY of APPROVED APD
-------	---	--------------------------------------------------------------

FOR GOVERNMENT USE ONLY

FOR GOVERNMENT USE ONLY

Signed By: Nebt Kra Date: 3-3-86

Provided To: 210 VACANT
(Section)

// a. Borrowed Data

Date Borrowed Data Returned:

The undersigned accepts responsibility for the security of the proprietary data listed above until it is returned to the District Office, and agrees to abide by the restrictions on proprietary data storage and use. The material must be kept in a Security Area when not in active use. The borrower may not duplicate, divulge, or transmit these data to another office without the prior approval of the District Supervisor.

/// b.. Transmitted Data to OFO Vault

Please acknowledge receipt by signing below and retaining the original copy of this form for your records.

Signature: Edna M. Bruno Date: March 3, 1986

AREA FILE

6A
X0302 #1



Amoco Production Company

Post Office Box 100779
Anchorage, Alaska 99510
907-272-8471

W. G. Smith
District Manager

RECEIVED
Anchorage, Alaska

March 3, 1986

MAR 03 1986

File: WGS-073-422.914 (Mars)

REGIONAL SUPERVISOR
FIELD OPERATION
MINERALS MANAGEMENT SERVICE
RECEIVED
OCS DISTRICT OFFICE

Mr. Rodney Smith
Regional Director
Minerals Management Service
P. O. Box 101159
Anchorage, Alaska 99510-1159

MAR 3 1986

MINERALS MANAGEMENT SERVICE
ANCHORAGE, ALASKA

Dear Mr. Smith:

Mars Prospect Well No. 1 (OCS-Y-0302)
Oil Spill Contingency Plan
Rig Inspection

Pursuant to your letter of October 21, 1985, please be advised that Amoco Production Company is requesting rig inspection for Parker Drilling Company, Rig No. 123 on March 10, 1986 at the Mars spray ice island, offshore from Cape Halkett. We would like to request that in the event the rig-up is completed prior to this date, the inspection could occur earlier to facilitate spudding as soon as possible.

Please also be advised pursuant to your October 12 letter that Amoco will have all trucks and large equipment, at Cape Halkett which will be used in the event of a spill to cut and remove ice or pick up oiled snow and debris from the site for transportation to an approved onshore disposal facility. Major contractors on site from which large equipment and trucks are currently leased are the following:

1. Catco - Trucks, dozers, blades, frontend loaders, rolligons
2. OTI - Frontend loaders, Vac-tank trucks, gin pole trucks

There will not be a crane maintained on site after construction activities are completed. Should one be needed Amoco can obtain it from the project contractor, Kodiak Oilfield Services, within 10 - 15 hours after notification.

AREA FILE 6A
403.2 #1

Mr. Rodney Smith
WGS-073-422.914 (Mars)
March 3, 1986
Page Two

Because of the need to facilitate crew changes and keep the Deadhorse aircraft available for other work, Amoco has a scheduled charter departing each Wednesday, beginning March 12, with Reeve Air to Cape Halkett. We would ask that all persons who have a need to go to Cape Halkett from your group use the charter, since there is no commercial service available to this area.

Please contact Cheryl Winkler (272-8471/263-2209) should you have questions or need to schedule reservations on the charter.

Very truly yours,

A handwritten signature in cursive script, appearing to read "W. G. Smith".

W. G. Smith
District Manager

Attachment

CAW/jr

059/m



Amoco Production Company

Post Office Box 100779
Anchorage, Alaska 99510
907-272-8471

W. G. Smith
District Manager

Received
OCS District Office

February 26, 1986

MAR 03 1986

File: WGS-069-422.914 (Mars)

Minerals Management Service
Anchorage, Alaska

U. S. Dept. of Interior
Minerals Management Service
District Office
P. O. Box 101159
Anchorage, Alaska 99510

Attention: Brian Schoof

Gentlemen:

In response to recent inquiries by your Mr. Nabil Masri, please note that the "pit watcher" will be designated to open the winterizer in the pit area if a hazardous background gas level in the mud is encountered.

The act of opening the winterizer will be simulated during BOP drills on the rig and noted on the driller's log.

Please contact Cheryl Winkler if you have additional questions or comments.

Very truly yours,

W. G. Smith / R. E. Neal
W. G. Smith
District Manager

cc: W. G. Smith
R. E. Neal
C. A. Winkler

REN/crc

DISTRICT FILE GA
Ys 342 #1



Amoco Production Company

Post Office Box 100779
Anchorage, Alaska 99510
907-272-8471

W. G. Smith
District Manager

February 13, 1986

Received
OCS District Office

File: WGS-058-422.914 (Mars)

FEB 13 1986

Mr. Brian Schoof
Minerals Management Service
P. O. Box 101159
Anchorage, Alaska 99510

Minerals Management Service
Anchorage, Alaska

Dear Mr. Schoof:

Mars Prospect (OCS-Y-0302)

Enclosed please find changes to the H₂S Plan for the Mars Prospect APD.
Please replace pages 75, 76, 81 and 84² with those currently in your copy.

Very truly yours,

W. G. Smith
District Manager

CAW/jr

050/m

Y0302 #1 6A
DISTRICT



Amoco Production Company

Post Office Box 100779
Anchorage, Alaska 99510
907-272-8471

W. G. Smith
District Manager

January 31, 1986

File: WGS-040-422.914 (Mars)

Mr. Brian Schoof
Minerals Management Service
Field Operations Supervisor

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OCS DISTRICT OFFICE

JAN 31 1986

MINERALS MANAGEMENT SERVICE
ANCHORAGE, ALASKA

Dear Mr. Schoof:

Mars Prospect (OCS-Y-0302)
Spray Ice Island
Critical Operations and Curtailment Plan

Pursuant to your letter of January 22, Amoco Production Company herewith submits the following information:

MMS Request

Amoco would state in the COCP how the well will be secured and what time will be needed for curtailment of operations and securing of the well when conditions warrant such an activity.

Amoco Response

Curtailment of critical drilling operations will normally occur in phases dictated by the severity of conditions which may jeopardize the safety of personnel, the environment or well equipment. Such conditions will include weather, ice conditions and ice island stability. Various combinations of these conditions may be sufficient to warrant curtailment of operations although any one could also be hazardous.

An explanation of the three phases of curtailment along with the time required for each is shown below:

Phase I: Prepare for securing the well (1 to 2 hours)

- (1) Analyze present conditions and determine action required in preparation for securing the well.
- (2) Analyze instrumentation/weather measurements/forecasts at least every twelve hours.
- (3) Recheck tools and equipment required for securing the well and ensure ready accessibility.

DISTRICT FILE Y302 H1
6A

Mr. Brian Schoof
File: WGS-040-422.914 (Mars)
January 31, 1986
Page 2

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JAN 31 1986

MINERALS MANAGEMENT SERVICE
ANCHORAGE, ALASKA

Phase II: Decrease level of drilling operations (1 to 4 hours)

Depending on the degree of severity of the existing condition of weather, ice or ice island stability or any combination thereof, the current level of drilling activity may either be decreased (i.e., continue present activity but do not begin a new activity unless it is of a remedial nature), or may be ceased altogether. When drilling ahead it will be desirable, time permitting, to pull into the last casing string and continue circulation until the limiting condition either passes, as in the case of a storm, or is remedied as could be required in leveling the rig.

Phase III: Suspend the well (1 to 4 hours)

The proposed method for suspending the well will be to set an RTTS packer with circulating valve inside the last casing string at a depth of 100 feet below the sea floor. The drill pipe above the packer will be retrieved and the blind rams in the BOP stack will be closed. This method will be applicable to suspending the well subsequent to setting 13-3/8 inch casing.

Prior to setting 13-3/8" casing, the well will be suspended by setting a 100 foot cement plug utilizing permafrost cement inside the last casing string with the top of the cement at 16 feet below mud line. The drill string will be removed from the hole and the wellbore will be monitored for flow on a continuous basis.

If any rig settlement is detected either by observing the plumb-bob characteristics of the rig or from instrumentation, Phase I alert procedures will be implemented immediately.

If the rig settles to the point of requiring leveling, Phase II will become effective. The degree of leveling and time expected to remedy the problem will determine whether the current activity is ceased.

If rig settling or misalignment occurs to the point that critical operations cannot be carried out safely, then Phase III procedures will be implemented. The well will either be suspended if remedial actions can be undertaken to allow the operations to proceed in a safe manner or, upon approval of the Minerals Management Service, the well will be plugged and abandoned according to OCS Order No. 3.

Mr. Brian Schoof
File: WGS-040-422.914 (Mars)
January 31, 1986
Page 3

MMS Request

Amoco must identify under what conditions operations would be curtailed, and/or what corrective actions would be taken if excessive heat loss from the insulated 30-inch drive pipe occurs which might threaten the integrity of the ice island. Amoco should identify how it intends to monitor heat loss from the annulus of the 6 feet and 30-inch casings into the island.

Amoco Response

Although the mud temperature will be controlled while drilling to 13-3/8 inch casing point at 3000 feet, some heat loss may be experienced from the mud into the ice adjacent to the wellbore.

The ability to monitor the ice temperature adjacent to the wellbore is an important and integral part of Amoco's proposed instrumentation program. Four thermistor strings will be installed in this area to monitor both the temperature of the spray ice and of the seawater between the six foot diameter culvert and the insulated 30 inch drive pipe.

If the seawater in the annulus between the six foot diameter culvert and the insulated 30 inch drive pipe is determined to be approaching 29.3 degrees Farenheit (-1.5 degrees Celsius), then this seawater will be pumped out of the annulus and replaced with seawater of sufficient temperature to preclude reaching a temperature of 29.3 degrees Farenheit (-1.5 degrees Celsius) in the annulus.

MMS Request

Amoco should identify increasing stages of alert in the "COCP Action Matrix" based on increasing levels of risk from environmental conditions and island performance. The action which will be taken at each stage of alert should also be included in the discussion.

Amoco Response

Risk levels, definable for this project, are already included in the matrix (attached). Actions were specified to the best of our ability. Further breakdown would not serve to increase safety, i.e., an alert to the condition is given and monitoring increased to constant appraisal, then when the conditions exist, appropriate action is taken depending on the magnitude of the risk involved.

Mr. Brian Schoof
File: WGS-040-422.914 (Mars)
January 31, 1986
Page 4

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JAN 31 1986

MINERALS MANAGEMENT SERVICE
ANCHORAGE, ALASKA

MMS Request

The "COCP Action Matrix" must describe and quantify the information to be obtained from the monitoring instrumentation and identify specific values for terms such as "severe", "extreme", "excessive", "increase frequency", etc.

Amoco Response

More detail is added to the matrix to describe boundary conditions, monitoring instruments and information retrieved for this request.

MMS Request

The "COCP Action Matrix" should identify what constitutes the "severe weather conditions" which warrant preparation for securing the well/suspension of testing.

Amoco Response

Noted on attached.

MMS Request

Identification of the location, number and frequency of surveys, coring and sampling of the rubble zone and the main body of island to be performed.

Amoco Response

Surveys to be conducted after construction:

- 1) 20 Cone Penetrometer Tests; uniformly distributed around island area.
- 2) 8 to 10 core holes, recovering an estimated 100 core samples; uniformly distributed around island area.
- 3) Rubble zone, if it occurs, will be monitored visually.

A second set of CPT and cores will be taken after the drill rig is moved out. Estimate about 5 CPT's and 2 or 3 core holes will be secured.

MMS Request

Identification of the location of wireline gauges and pressure monitoring instruments to be installed in the ice around the island, including the frequency of data collection.

Mr. Brian Schoof
File: WGS-040-422.914 (Mars)
January 31, 1986
Page 5

Amoco Response

Three ice movement stations have been installed.

- 1) \pm 1000' NE of island
- 2) \pm 1000' SE of island
- 3) \pm 1000' SW of island

Three ice stress plane stations have been installed.

- 1) \pm 200' NW of island
- 2) \pm 200' SE of island
- 3) \pm 1000' SW of island

A revised Appendix A is attached, showing more detail on data retrieval from the project instrumentation.

Sincerely,



W. G. Smith
District Manager

Attachments

CAW/jr

035/m

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CCS DISTRICT OFFICE

JAN 7 1968

AMOCO
MARS ICE ISLAND
CRITICAL OPERATIONS
CURTAILMENT PLAN

MINERALS MANAGEMENT SERVICE
ANCHORAGE, ALASKA

Certain operations performed during exploratory drilling are more critical than others with respect to well control and prevention of fire, explosion, oil spills, and other discharges or emissions. These operations, which include running and cementing casing, logging or wireline operations, well completion and testing operations, and drilling into formations anticipated to be abnormally pressured, will be limited or curtailed when particular meteorological, oceanographic, or ice conditions are, or are predicted to be, severe enough to adversely effect drilling operations or logistic support.

Specifically, the following conditions have been considered in developing the action matrix in Table I:

1. Global ice island shearing due to sea ice movement which could adversely affect the drilling operations due to misalignment of the drill rig or deformation of the borehole casings.
2. Ice island settlement resulting from the self-weight of the island and from the weight of the drilling rig components.
3. Adverse ice conditions, such as open leads between the shore and the ice island, that would prevent surface transportation of personnel, supplies and equipment that cannot be moved by alternate means such as helicopter.
4. Consolidation of rubble piles, intentionally generated at the edge of the ice island, which could result in higher ice loads than designed for due to crushing, rather than rubbing, of the surrounding ice sheet.
5. Severe weather which could cause ice movement and/or interruption of movement of personnel, supplies or equipment.
6. High winds which would affect drilling operations and/or testing.
7. Extended periods of warn weather which could adversely affect the island surface (although this is considered remote during the proposed drilling time frame).

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JAN 31 1986

HAZARDOUS MATERIALS MANAGEMENT SERVICE
ANCHORAGE, ALASKA

TABLE 1
AMOCO MARS ICE ISLAND
CRITICAL OPERATIONS CURTAILMENT PLAN
ACTION MATRIX

Condition Operation	Mobilization/ Demobilization	Drilling Operations	Testing	Instrumentation Involved
<u>Weather</u>				
1. Severe Weather Forecast (anticipated winds of +50mph, snow, and/or blowing snow)	Give priority to movement of critical personnel, supplies and equipment. Continue nonessential movements. Increase frequency of monitoring. Notify island personnel of forecast.	Prepare for securing the well	Prepare for suspension of testing.	Meteorological station with forecasts
2. Severe Weather Occurring (greater than 50mph white-outs, blowing snow occurring)	Suspend non-critical movements of personnel, supplies and equipment. Continue essential move- ments as required using caution. Increase monitoring frequency.	Decrease level of drilling operations activity and increase level of remedial measures in response to increases of severity of weather; in extreme conditions secure well.	Continue testing operations with caution while maintaining readi- ness to curtail operation	Meteorological station
<u>Sea Ice</u>				
1. Ice Sheet Movement Predicted (greater than 25' per event anticipated)	Alert ice access road users to potential for ice movement which could open cracks and/or leads in the roadway. Give priority to movement of critical personnel, sup- plies and equipment. Increase reporting frequency to drilling foreman or Amoco representative	Prepare for securing the well. Increase monitoring activity.	Prepare for sus- pension of testing operation.	3 ice movement stations (remote) monitored on the island.

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JAN 31 1986

MINERALS MANAGEMENT SERVICE
ANCHORAGE, ALASKA

TABLE 1
(continued)
AMOCO MARS ICE ISLAND
CRITICAL OPERATIONS CURTAILMENT PLAN
ACTION MATRIX

Condition Operation	Mobilization/ Demobilization	Drilling Operations	Testing	Instrumentation Involved
2. Ice Sheet Movement Detected (greater than 25' during one event)	Continue moving priority personnel, equipment and material; minimize non-critical movements; increase surveillance of the ice road; repair minor cracking by flooding; close road for open leads.	Increase frequency of ice monitoring; increase visual observation of island fringe; decrease level of drilling operations activity and increase level of remedial measures in response to increases in severity of movement.	Continue testing operations with caution while maintaining readiness to curtail operations if movement becomes severe.	Continuous monitoring of ice movement from 3 remote ice movement stations.

Island Fringe

1. Deterioration of Fringe Geometry	Increase surveillance. Prepare for application of spray ice on rubble pile to ground the mass on the sea floor and re-establish the island edge geometry as necessary.	Prepare for securing well, decrease level of drilling operations activity and increase level of remedial measures as necessary.	Continue testing operations as required.	Visual observations plus hand held cameras.
----------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------	------------------------------------------	---------------------------------------------

Island Pad

1. Pad Cracking	Increase reporting frequency to drilling foreman or Amoco representative. Prepare for application of spray ice and flood into heal cracks.	Prepare for securing well, decrease level of drilling operations activity and increase level of remedial measures based on severity of cracking.	Continue testing operations with caution while maintaining readiness to curtail operations if cracking becomes severe.	Visual observations
-----------------	--------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------	---------------------

NOTE: Repair with ice water slurry as required.

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JAN 31 1966

GENERAL MANAGEMENT SERVICE
ANCHORAGE, ALASKA

TABLE 1
(continued)
AMOCO MARS ICE ISLAND
CRITICAL OPERATIONS CURTAILMENT PLAN
ACTION MATRIX

Condition Operation	Mobilization/ Demobilization	Drilling Operations	Testing	Instrumentation Involved
2. Excessive Pad Settlement/ Differential Settlement (greater than 2' total or greater than 2' differential	Increase surveillance. Prepare for personnel, supplies and equipment movement as required.	Prepare for securing well and rig leveling as necessary; decrease level of drilling opera- tions activity and in- creases in the rate and magnitude of settlement.	Continue testing operations with caution while maintaining readi- ness to curtail operations if settlement becomes severe.	Sondex tubes (7) Settlement rods (6 sets)
3. Global Movement of Central Pad	Increase surveillance Prepare for personnel, supplies and equipment movement as required.	Adjust rig as necessary Prepare to secure well based on severity of movement.	Discontinue testing operations. Prepare to secure well based on severity of movement.	In place inclino- meters (3) monitored by computers, manual inclinometers (6)
4. Excessive Thermal Deterioration of Island Surface (Such that rig packages can no longer be maintained in required alignment).	Prepare for personnel, supplies and equipment movement as required; increase surveillance of ice road to detect melt holes.	In case of extended periods of abnormally elevated temperatures, increase temperature monitoring frequency, prepare for securing well and releveling the rig as necessary.	Increase temper- atures monitoring frequency, prepare for securing well and releveling the rig as necessary.	Surface - visual Subsurface - thermistor string

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OCS DISTRICT OFFICE

JAN 31 1986

MINERALS MANAGEMENT SERVICE
ANCHORAGE, ALASKA

APPENDIX A

Instrumentation and Monitoring Plan

<u>Parameter (Units)</u>	<u>Measurement Device (Quantity)</u>	<u>Maximum Frequency of Data Sampling</u>	<u>Normal Frequency of Data Sampling</u>
1. Lateral Shearing of Island (in)	* In place inclinometers (3) Manual inclinometers (6)	minute daily	hourly twice weekly
2. Settlement of Island (in)	Sondex settlement tubes (7) Settlement rods (6)	daily daily	twice weekly every 48 hours
3. Movement of surrounding ice (ft)	* Dual wireline ice movement stations (3)	minute	hourly
4. Pressure in surrounding ice (psi)	* Hexpack panels (3) and horizontal flat jacks (6)	minute	hourly
5. Spray ice temperature (°F)	Thermistor strings (10)	daily	every 48 hours
6. Meteorological conditions	Anemometer, barometer, and wet bulb/dry bulb thermometer (1 each)	hourly	hourly

* Automated measurements acquired through telemetry or hard wiring between sensor and central data acquisition system.

Additionally, weather and ice movement forecasts will be provided for time periods out to 72 hours.

* Normally means during routine operations.

Tyler 1/22/86
J Regg 1-22-86

JAN 22 1986

Amoco Production Company
Attn: W. G. Smith, District Mgr.
P.O. Box 100779
Anchorage, AK 99510

Gentlemen:

This office has completed the review of your Critical Operations and Curtailment Plan (COCP) and ice island post-construction monitoring program submitted with the Mars Prospect, OCS-Y 0302, Well No. 1, Application for Permit to Drill (APD). The following additional items are needed to facilitate approval for the Platform Verification Process and APD.

1. Amoco should state in the COCP how the well will be secured and what time will be needed for curtailment of operations and securing of the well when conditions warrant such an activity.
2. Amoco must identify under what conditions operations would be curtailed, and/or what corrective actions would be taken if excessive heat loss from the insulated 30-inch drive pipe occurs which might threaten the integrity of the ice island. Amoco should identify how it intends to monitor heat loss from the annulus of the 6 feet and 30-inch casings into the island.
3. Amoco should identify increasing stages of alert in the "COCP Action Matrix" based on increasing levels of risk from environmental conditions and island performance. The action which will be taken at each stage of alert should also be included in the discussion.
4. The "COCP Action Matrix" must describe and quantify the information to be obtained from the monitoring instrumentation and identify specific values for terms such as "severe", "extreme", "excessive", "increase frequency", etc.
5. The "COCP Action Matrix" should identify what constitutes the "severe weather conditions" which warrant preparation for securing the well/suspension of testing.

The post-construction monitoring program is an integral part of the COCP and its implementation. Conditional approval of the ice island design was given to allow construction to commence, contingent upon receiving a suitable COCP and post-construction monitoring program. Both the COCP and post-construction monitoring programs must be in place prior to

0302, 6A


final approval of the ice island design. The following items concerning the post-construction monitoring program are necessary to further process your permit:

1. Identification of the location, number, and frequency of surveys, coring, and sampling of the rubble zone and the main body of island to be performed.
2. Identification of the location of wireline gauges and pressure monitoring instruments to be installed in the ice around the island, including the frequency of data collection.

If you have any questions concerning these items, please contact us at: (907) 261-4066.

Sincerely,

Orig. Sgnd. By Nabil F. Masti

 Brian F. Schoof
Supervisor, District Office
Field Operations

bcc: ✓ OCS-Y 0302, Well No. 1, File 6A Area/District
Chron Area/District
RD Chron

JRegg:djs:1-17-86

Redrafted:JRegg:djs:1-21-86

Redrafted:RTyagi:JRegg:mw:1-21-86

1-178
JAN 17 1986

Amoco Production Company
Attn: W. G. Smith, District Mgr.
P. O. Box 100779
Anchorage, AK 99510

Gentlemen:

We request that Amoco inform our office when the drilling rig that will be used to drill OCS-Y 0302, Well No. 1, in Sale 71 area of the Beaufort Sea, will be available for inspection by the Minerals Management Service (MMS) personnel.

Prior to the rig inspection, we request that Amoco submit to MMS, the following:

1. The rig operating manual.
2. Information on the rig sump system.
3. The dimensions of the fuel tanks and berms, including the "Test Oil Tanks".

If you have any questions, please call us at 261-4066.

Sincerely,

Orig. Sgnd. By Brian Schoof

Brian F. Schoof
Supervisor, District Office
Field Operations

bcc: ✓ OCS-Y 0302 #1, 6A, Area/District
Chron Area/District
Circ Chron

NMasri:BSchoof:djs:1-17-86

memorandum

DATE: JAN 10 1986

REPLY TO
ATTN OF: Regional Supervisor, Field OperationsSUBJECT: Amoco Mars Prospect Critical Operations and Curtailment Plan (COCP)
Comments

TO: District Supervisor

We have reviewed Amoco's Critical Operations and Curtailment Plan (COCP) submitted with the proposed Application for Permit to Drill (APD) dated December 16, 1985. The COCP and associated monitoring program to implement the COCP are an integral part of the platform verification process for the spray ice island and will need to be reviewed by the Platform Verification Section and this office prior to approval by the District Supervisor. Following are items which should be included or expanded on in the COCP:

1. The COCP or the APD should address how moon pool temperatures will be monitored and controlled so that the integrity of the ice island platform around the moon pool will be insured. Amoco should identify critical numerical values for temperatures, the amount of thaw which might affect the island integrity, and the actions that will be taken when these values are reached.

2. The "Critical Operations Curtailment Plan Action Matrix," consisting of "Appendix A - Instrumentation and Monitoring Plan" and "Table I - COCP Action Matrix," must be tied in with the items identified in the "Design Basis Report" Section 5.0 entitled "Construction Verification and Monitoring" - page 112 through page 117, and Tables 5.1 "Recommended Post-Construction Verification Sampling and Testing" and 5.2 "Recommended Operational Monitoring Functions."

Specific design criteria values identified in the Design Basis Report must be related to when and what actions identified in Table I - "COCP Action Matrix" must be taken to secure the well, and/or to alleviate environmental loads or ice island conditions which could cause the island to slide or fail. This table must describe and quantify the information to be obtained from the monitoring instrumentation, i.e., ice pressures from the surrounding sea ice, sea ice movement, and island geometry of the rubble zone.

In Table I, "Sea Ice," item 1, "Ice Sheet Movement Predicted," the level of allowable ice sheet movement must be coordinated with the critical numerical values that are identified in the "Design Basis Report" and the Certified Verification Agent's (CVA's) "Design Verification Report." Under the item "Island Pad," part 1, "Pad Cracking," the frequency and width of cracking which would warrant curtailment actions must be identified. Under item 2, "Excessive Pad Settlement/Differential Settlement," the amount of

DISTRICT FILE DCS-9 0302, #6.AOPTIONAL FORM NO. 10
(REV. 1-80)
GSA FPMR (41 CFR) 101-11.6
5010-114

critical settlements must be tied to the design criteria for settlements identified in the "Design Basis Report" and the CVA's "Design Verification Report." Also in item 3, "Global Movement of Central Pad," the amount of movement and rate of movement must be tied in with the specific allowable values mentioned in the "Design Basis Report" and the CVA's "Design Verification Report." Similarly, with items 2 and 4, "Excessive Thermal Deterioration of Island Surface," specific temperature values/amount of creep which threaten the island integrity must be identified.

3. The "COCP Action Matrix" should identify what constitutes the severe weather conditions which would warrant preparation for securing the well/suspension of testing.

4. We believe Amoco needs to identify increasing stages of alerts in the "COCP Action Matrix" based on environmental conditions and island performance that define increasing levels of risk and the actions which will be taken at each stage of alert.

The postconstruction monitoring program is an integral part of the COCP and its implementation. Both the COCP and postconstruction monitoring programs must be in place prior to final approval of the ice island design. To facilitate approval for the Platform Verification Process and Application for Permit to Drill, the COCP and monitoring programs should be addressed simultaneously. In addition to the items identified above, the District should also request the following additional information that needs to be incorporated in the monitoring program in its letter to Amoco regarding the COCP.

1. The postconstruction monitoring program outlined in the "Design Basis Report" recommends surveys and coring and sampling of the rubble zone and main body of the island to assess island geometry and ice properties. The location, number, and frequency of this coring and survey program need to be identified.

2. The location of the wireline gauges to be installed after construction and pressure monitoring instrumentation in the surrounding ice should also be identified. The frequency of data collection from the instrumentation systems should be identified.

Since this is a unique and first time experience, we believe MMS should be especially concerned about details of all safety systems. We also hope to work with you in identifying special features and concerns which can be incorporated in the inspections program. If you have any questions about the above, do not hesitate to discuss them with the appropriate ORA Section people.

P. Smith



W. G. Smith
District Manager

January 6, 1986

Mr. Rodney Smith
Minerals Management Service
P.O. Box 101159
Anchorage, Alaska 99510-1159

File: WGS-006-922.412

Dear Mr. Smith:

Attached please find a courtesy copy of the press release issued by Amoco Production Company with regard to the Mars Spray Ice Island Project located 5 miles N.E. of Cape Halkett. We anticipate that this release will appear in tomorrow's papers.

W.G. Smith
District Manager

CAW/ph

cc: Distribution
Jan Sorice

014/m

Amoco Production Company

Post Office Box 100779
Anchorage, Alaska 99510
907-272-8471

RECEIVED
Anchorage, Alaska

JAN 07 1986

REGIONAL SUPERVISOR
FIELD OPERATION
MINERALS MANAGEMENT SERVICE

0302, 6A

Ted B. Neptune
Public Affairs Supervisor

Amoco Corporation

Western Area
1670 Broadway
Post Office Box 800
Denver, Colorado 80201
303-830-5397

Representing
The Amoco Companies

RECEIVED
Anchorage, Alaska

JAN 07 1986

REGIONAL SUPERVISOR
FIELD OPERATION
MINERALS MANAGEMENT SERVICE

For immediate release

ANCHORAGE (January 6) -- Amoco Production Company, acting as operator for itself and other companies, plans to start drilling an exploratory well from a specially constructed ice island in the Beaufort Sea about 100 miles west-northwest of Prudhoe Bay, Alaska, in late February of 1986.

According to Wayne G. Smith, Amoco's Anchorage District manager, the OCS-Y-0302 No. 1 Mars, in the OCS Sale 71 area, five miles northeast of Cape Halkett, will be drilled to a depth of 8,300 feet in 25 feet of water. A conventional rotary rig will be used to drill the well.

Smith said the ice island will be circular in shape, approximately 950 feet in diameter and extend 20 feet above sea level. The Mars project represents the first exploratory well to be drilled from an island built entirely of spray ice.

The spray ice technique calls for sea water to be pumped through nozzles and sprayed into the air where it forms ice granules that settle on the ocean's natural ice sheet. The process continues until the ice mass sinks to the ocean floor and is grounded.

Smith noted that logistical support for the Mars project includes an ice airstrip on an existing dry lake bed, an onshore

- more -

- 2 -

support base and living facilities and the ice island. He pointed out that the peak workforce during drilling will total between 80 and 90 people.

Drilling and testing of the well will take about 45 days, Smith said. Full clean-up and abandonment is expected to be complete by May 1, 1986. Shortly thereafter, the ice structures will melt, returning both onshore and offshore sites to their natural state.

Amoco acquired 104,362 net Federal acres at OCS Sale 71 in October of 1982 and 33,634 net acres at Alaska State Sale 43 in May of 1984. Amoco Production Company is the exploration and production subsidiary of Amoco Corporation. Amoco's Beaufort Sea operations are conducted out of Anchorage.

sale 87 7/8

#

January 6, 1986

MINERALS MANAGEMENT SERVICE
ALASKA OCS REGION

District Office

RECEIVED
Anchorage, Alaska

DEC 16 1985

DATA TRANSMITTAL FORM

REGIONAL SUPERVISOR
FIELD OPERATION
MINERALS MANAGEMENT SERVICE

Lease Well

Description

Y0302	1	AMULIN APD MARS PROSPECT
		PLEASE REVIEW THE ATTACHED APPENDICES AND GIVE
		US YOUR COMMENTS BY COB DEC 20 IF POSSIBLE.
		A FORMAL REQUEST LETTER WILL FOLLOW.
		1. APPENDIX C BOP EQUIPMENT -
		2. APPENDIX D ENVIRONMENTAL CONDITIONS.
		3. APPENDIX E CRITICAL OPERATIONS AND
		CURTAINMENT PLAN
		4. LOCATION MAP & APD FORM 331C.

Signed By: Nahel Fourn Date: 12-15-85

Provided To: ORA /OFO
(Section)

☐ a. Borrowed Data Date Borrowed Data Returned: _____

The undersigned accepts responsibility for the security of the proprietary data listed above until it is returned to the District Office, and agrees to abide by the restrictions on proprietary data storage and use. The material must be kept in a Security Area when not in active use. The borrower may not duplicate, divulge, or transmit these data to another office without the prior approval of the District Supervisor.

☒ b. Transmitted Data to OFO Vault

Please acknowledge receipt by signing below and retaining the original copy of this form for your records.

Signature: Ludell Robinson Date: 1/27/86

Y0302 GA
APR 10 1986

RECEIVED
Anchorage, Alaska

DEC 13 1985

REGIONAL SUPERVISOR
FIELD OPERATION
MINERALS MANAGEMENT SERVICE

Page 02

OCS-Y-0302 No. 1
Mars Prospect, Beaufort Sea

MARS PROSPECT

CONTENTS OF APPENDIX N

PROPRIETARY INFORMATION

- ✓ Structure and Stratigraphic Elements
- ✓ Drilling Prognosis
- ✓ Ivishak Cross Section (North - South)
- ✓ Ivishak Cross Section (East - West)
- ✓ Ivishak Structure/Shotpoint Base Map
- ✓ ASJ-417 Seismic Cross Section (East - West)
- ✓ ASJ-418 Seismic Cross Section (North - South)

Delivered by

Gregory A. Smith

Amoco

Received by

Nick Forster

Minerals Management Service

Date

12/13/85

RECEIVED
Anchorage, Alaska
OCS DISTRICT OFFICE
DEC 17 1985

REGIONAL SUPERVISOR
MINERALS MANAGEMENT SERVICE
FIELD OPERATION
ANCHORAGE, ALASKA
MINERALS MANAGEMENT SERVICE

AREA FILE

GA

Y0302 #1

MINERALS MANAGEMENT SERVICE
ALASKA OCS REGION

District Office

DATA TRANSMITTAL FORM

Lease

Well

Description

Y0302	1	DESIGN VERIFICATION REPORT NOV 85 MARS SPRAY ICE ISLAND

Signed By:

W. H. Freeman

Date:

12-20-85

Provided To:

OF. VAULT
(Section)

☒ a. Borrowed Data

Date Borrowed Data Returned: 12-23-85

The undersigned accepts responsibility for the security of the proprietary data listed above until it is returned to the District Office, and agrees to abide by the restrictions on proprietary data storage and use. The material must be kept in a Security Area when not in active use. The borrower may not duplicate, divulge, or transmit these data to another office without the prior approval of the District Supervisor.

☐ b. Transmitted Data to OFO Vault

Please acknowledge receipt by signing below and retaining the original copy of this form for your records.

Signature:

[Signature]

Date:

20 Dec / 1540

Y0302 #1 GA

RECEIVED
Anchorage, Alaska

OCS-Y-0302 No. 1
Mars Prospect, Beaufort Sea

DEC 13 1985

MARS PROSPECT

REGIONAL SUPERVISOR
FIELD OPERATION
MINERALS MANAGEMENT SERVICE

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- ✓ ASJ-418 Seismic Cross Section (North - South)

Delivered by *Paul Am. Smiley* Amoco

Received by *Ned Foras* Minerals Management Service

Date

12/13/85

RECEIVED
OCS DISTRICT OFFICE

DEC 13 1985

MINERALS MANAGEMENT SERVICE
ANCHORAGE, ALASKA

RECEIVED
Anchorage, Alaska

DEC 17 1985

REGIONAL SUPERVISOR
FIELD OPERATION
MINERALS MANAGEMENT SERVICE

Y63-2#1

CA AREA

ARCA/DIST 6A



W. G. Smith
District Manager

*please Hold For
8 F. Response*

*O.K.
covered in ENV. REPORT*

December 12, 1985

Mr. Brian Schoof
Minerals Management Servic
P.O. Box 101159
Anchorage, Alaska 99510-1159

File: WGS-132-422.914(MARS)

Re: MARS Prospect: OCS-Y-0302
Permission to burn/flare hydrocarbons

Dear Mr. Schoof:

Please be advised that Amoco Production Company, pursuant to the MARS Prospect (OCS-Y-0302), hereby requests permission to burn or flare hydrocarbons.

The Flopetrol system (Model #M808783/3) will be used at approximately 5000 bopd maximum anticipated rate with a 100% hydrocarbon burning efficiency. The area around the system will be monitored for deposition of any residual materials and will be cleaned-up should such an event occur.

Your signature of approval is requested below. Please return a signed copy to us.

Should you have any questions, kindly call Cheryl Winkler at 272-8471/263-2209.

Sincerely,

W. G. Smith
District Manager

Mr. Brian Schoof _____ Date

CAW/pgh

007/M

RECEIVED
OCS DISTRICT OFFICE

DEC 13 1985

MINERALS MANAGEMENT SERVICE
ANCHORAGE, ALASKA

NOT FILE Y0302 #1
6A 6A



Amoco Production Company

Post Office Box 100779
Anchorage, Alaska 99510
907-272-8471

W. G. Smith
District Manager

December 12, 1985

Mr. Brian Schoof
Minerals Management Service
P.O. Box 101159
Anchorage, Alaska 99510-1159

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Sincerely,

W. G. Smith
District Manager

Mr. Brian Schoof

Date

CAW/pgh

007/M

RECEIVED
OCS DISTRICT OFFICE

DEC 13 1985

MINERALS MANAGEMENT SERVICE
ANCHORAGE, ALASKA

AREA FILE Y0302 #1

62-1 CA

NOV 18 1985

Regional Supervisor, Field Operations

Mars Project

District Supervisor

A copy of Amoco Production Company's Critical Operations and Curtailment Plan (COCP) for Mars Project was hand delivered to your office on November 18, 1985. This plan has been submitted by Amoco with their design and construction plans for the subject island. The District should review the COCP and provide comments on its adequacy to the Operations, Review, and Approval Section by November 20, 1985.

(Orig. Sgd.) Rodney A. Smith

6A
bcc: Mars Project OCS-Y 0302 (area/dist)
Chron (area/dist/ora)
CC

RTyagi:pn:11/18/85:comments
Final:sz:11/18/85

NOTED
OCT 31 1985
SCHOOF

OCT 30 1985

Memorandum

To: Chief, Office of Program Support and Coordination, GOM OCS Region
From: Regional Supervisor, Field Operations
Subject: Meetings on November 6 and 7, 1985, on Shell's New, Bottom-Founded Structure and Amoco's Ice Island

On November 6, 1985, at 2 p.m., there will be meeting with Shell Western Exploration and Production, Inc. to discuss permitting and approval requirements for a new, bottom-founded structure for the Beaufort Sea. Also, at a meeting to be held on November 7, 1985, at 9 a.m., Amoco will make a presentation on their proposed ice island to be constructed on the Mars prospect in the Beaufort Sea.

We are requesting that, if possible, both Mr. Felix Dyhrkopp and Mr. Arvind Shah, who have been involved in reviewing gravel islands and other structures for use in the Beaufort Sea, attend these meetings. If their schedule permits, we should be able to set up a visit to the CIDS and/or Sandpiper Island where drilling is underway. Also, we hope to have discussions on new developments on ice pressures and other items of mutual interest.

(Orig. Sgd.) Rodney A. Smith

bcc: OCS-Y 0302 (area/dist)
Chron (area/dist/ora)
CC
YKuranel
RD Chron

6A

YKuranel:pmw:10/25/85:amoco
Redraft:RTyagi:sz:10/28/85
Redraft:RSmith:sz:10/29/85
Final:sz:10/29/85



W. G. Smith
District Manager

Amoco Production Company

Post Office Box 100779
Anchorage, Alaska 99510
907-272-8471

RECEIVED

Anchorage, Alaska

OCT 24 1985

October 24, 1985

File: WGS-087-422.914/MARS

REGIONAL SUPERVISOR
FIELD OPERATION
MINERALS MANAGEMENT SERVICE

United States Department of Interior
Minerals Management Service
Alaska OCS Regional
P.O. Box 101159
Anchorage, Alaska 99510

Attention: Mr. Rodney Smith
Regional Supervisor

MARS Prospect (OCS-Y-0302):
Ice Island Drilling Structure
Certified Verification Agent Selection

Amoco has selected Brian Watt Associates, Inc. to act as the Certified Verification Agent for the ice island. They have provided this service for Shell on Seal and Sandpiper (gravel islands) and are actively involved in state-of-the-art Arctic research and engineering projects. Consequently, we feel that they are well suited for this task.

Please also be advised that pursuant to C. A. Winkler's discussions with Jeff Walker today, we plan to provide a confidential technical review of the ice island design for MMS on November 7 at 9 a.m. in your office.

Please call Cheryl Winkler (263-2209/272-8471) should you have questions.

Sincerely,

W. G. Smith

CAW/alh

cc: Jeff Walker

024/H

Bennett
8/9/85

AUG 12 1985

Mr. Jim Saviers
Amoco Production Company
P.O. Box 100779
Anchorage, Alaska 99510

Dear Mr. Saviers:

The Minerals Management Service has no setback requirement for exploratory wells which will be plugged and abandoned upon completion. Drill sites for production wells will be set back 500 feet from lease boundary lines.

Sincerely,

Orig. signed by Barry A. Boudreau
Acting
Regional Supervisor
Field Operations

bcc: ~~U~~CS-Y 0302 3A 6A
Chron (area/dist)
CC
RD Chron

KMonkellien:tlb:8/07/85:Saviers
Final:tlb:8/09/85