

SUBMIT: ORIGINAL,  
ONE COPY, AND ONE  
PUBLIC INFORMATION  
COPY.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
MINERALS MANAGEMENT SERVICE

OMB Approval No. 1010-0077  
Expires: OCTOBER 31, 1994

NOTICE OF INTENT/REPORT OF WELL ABANDONMENT										
1. FIELD NAME <i>Wildcat</i>			2. MMS LEASE, UNIT OR COMM. NO. (6) <i>Y 0866 0</i>			3. MMS OPERATOR NUMBER (5) <i>635</i>				
4. OPERATOR WELL NUMBER (7) <i>3</i>		5. DATE (RE)COMPLETED (6) YYMMDD <i>93-10-05</i>		6. API NUMBER (10 OR 12) STATE (2) COUNTY (3) SEQUENCE (5) TRACK (2) <i>55 171 00010</i>		SIDE COMPLETION CODE (3)				
7. OPERATOR NAME AND ADDRESS (SUBMITTING OFFICE) <i>ARCO Alaska, Inc. PO Box 100360 Anchorage, Ak 99510-0360</i>				8. WELL TYPE (1) <i>E</i>		9. DATE SPUDDED (6) YYMMDD <i>93/99</i>				
				10. SIDETRACKED (6) YYMMDD <i>NA</i>		LEAVE BLANK				
11. FINAL LOCATION OF WELL (12) Surface: <i>7743' FWL, 9643' FSL of Block 673</i> Production zone: <i>NA</i> Total depth: <i>NA</i>				12. OPERATING AREA CODE (2) <i>F1</i>		13. BLOCK NUMBER (6) <i>673</i>				
				14. MAP OR OFFICIAL PROTRACTOR DIAGRAM NUMBER (7) <i>NR 6-4, Flaxman Island</i>						
15. OPERATOR LEASE UNIT OR COMMUNITIZATION NAME <i>Kuvium</i>				16. NOTICE OF INTENT SUBMITTAL SUBSEQUENT REPORT <input checked="" type="checkbox"/>		17. TYPE OF ABANDONMENT TEMPORARY <input type="checkbox"/> PERMANENT <input checked="" type="checkbox"/>				
18. DATE TD REACHED (6) YYMMDD <i>93/09/28</i>		19. TOTAL DEPTH (5) MD <i>8000'</i> TVD <i>8000'</i>		20. PLUG BACK DEPTH (5) MD <i>233'</i> TVD <i>233'</i>		21. DATE ABANDONED (6) YYMMDD PROPOSED <input type="checkbox"/> COMPLETED <input checked="" type="checkbox"/> <i>93/10/05</i>				
22. ELECTRIC AND OTHER LOGS RUN (MAY BE OMITTED IF PREVIOUSLY SUBMITTED) <i>AIT Sonic, GR, SP, LDT, CNL, NGT, Microlog, FMI, PERCUSSION SWC, RFT, VSP</i>										
23. CASING RECORD <i>(Report all strings unless previously submitted)</i>										
HOLE SIZE (4)	CASING SIZE (4), LB/FT (5) & GRADE	SETTING DEPTH				QUANTITY OF CEMENT (CU. FT./TYPE)				
		MD (5)	TVD (5)	MD (5)	TVD (5)					
<i>26"</i>	<i>30" 457 X-52</i>	<i>308'</i>	<i>308'</i>			<i>30" casing drilled in place</i>				
<i>26"</i>	<i>20" 133 X-56</i>	<i>1023'</i>	<i>1023'</i>			<i>3790 cu. ft. Arctic Set I</i>				
<i>17.5"</i>	<i>13-3/8" 68 L-80</i>	<i>3681'</i>	<i>3681'</i>			<i>1729 cu. ft. Class G w/ 2% gel, 449 cu. ft. Class G</i>				
CASING PULLED										
CASING SIZE (4)	SHOT/CUT AT		PULLED FROM		DEPTH SET MD (5)		BRIDGE PLUGS/RETAINERS			
	MD (5)	TVD (5)	MD(5)	TVD (5)			DESCRIPTION			
					<i>400' RKB</i>		<i>13-3/8" EZSV bridge plug</i>			
					<i>3625' RKB</i>		<i>13-3/8" EZSV retainer</i>			
JUNK IN HOLE										
DESCRIPTION							FROM	TO		
PLUGGING RECORD										
DEPTH INTERVAL MD (5)		AMOUNT, SLURRY COMPOSITION, AND METHOD OF PLACEMENT								
<i>6176'-6500'</i>		<i>264 cu ft Class G, open hole balanced plug</i>								
<i>3500'-3822'</i>		<i>163 cu ft Class G cement below retainer @ 3625' and 105 cu ft cement above retainer</i>								
<i>223'-400'</i>		<i>140 cu ft Arctic Set I above retainer @ 400' RKB</i>								

Form MMS-332 (November 1991)  
(Supersedes Form MMS-332 (July 1988)  
which will not used)

CONTINUED ON REVERSE  
COMPLETE REVERSE SIDE, SIGN, AND DATE

MINERALS MANAGEMENT SERVICE  
ANCHORAGE, ALASKA

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OCT 06 1993

**24. PRODUCTION HISTORY** (Development wells only)

DATE LAST PROD (4) YYMM	WELL STATUS	PROD. FOR LAST PERIOD	OIL-BBL (6)	GAS-MCF (6)	WATER-BBL (6)	GAS/OIL RATIO (6)	SHUT-IN TUBING PRESSURE (5)
NA							

ALL PERFORATED INTERVALS CURRENTLY OPEN (5)

REASON FOR ABANDONMENT (include supportive well logs and test data):  
NA

SITE CLEARANCE DATE (6) YYMMDD 10/5/93	EXTENT OF SITE SEARCH 65' radius / well	SITE CLEARED BY Divers performed visual inspection
--	---	--

SUMMARY OF POROUS ZONES: SHOW ALL ZONES CONTAINING HYDROCARBONS; ALL CORED INTERVALS; AND ALL DRILL STEM TESTS, INCLUDING DEPTH AND INTERVAL TESTED, CUSHION USE, TIME TOOL WAS OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES.

FORMATION	TOP		BOTTOM		DESCRIPTION, CONTENTS, ETC.
	MD (5)	TVD (5)	MD (5)	TVD (5)	
Sagavanirktok	6330'	6330'	6375'	6375'	Quartzose with some chert and other sedimentary lithic grains, medium to light gray, siltstone to very fine grained sandstone, finely laminated, subangular grains, moderately to poorly sorted, locally silty or muddy, weak oil stain.

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GEOLOGIC MARKERS NAME	TOP		NAME	BOTTOM	
	MD (5)	TVD (5)		MD (5)	TVD (5)
Sagavanirktok	surface	surface			
Sagavanirktok	8000'	8000'			

Paleontological Data not available yet - anticipate MCI data in 2-4 weeks time.

FOR MANAGEMENT SERVICE  
ANCHORAGE, ALASKA

WARNING: PUBLIC LAW 87-451 provides civil and criminal penalties for false or inaccurate reporting. Failure to report as required under the terms of the lease permit, or contract may result in suspension of operations or other enforcement actions.

CONTACT NAME (First, MI, Last) Tim A. Billingsley	PHONE NUMBER (10) 907-265-6575	EXTENSION NUMBER (4) XXXX
AUTHORIZING NAME (First, MI, Last) Michael B. Wintree	TITLE Area Drilling Engineer	
AUTHORIZING SIGNATURE <i>Michael B. Wintree</i>	DATE YYMMDD (6) 93-10-01	

(This space is for Federal office use)

CONDITIONS OF APPROVAL FOR SPECIAL CIRCUMSTANCES: ARE ATTACHED  NONE

APPROVED BY: *[Signature]* DATE (6) 931025  
ACCEPTED BY: *[Signature]* TITLE: *Patrick S. Swanson*

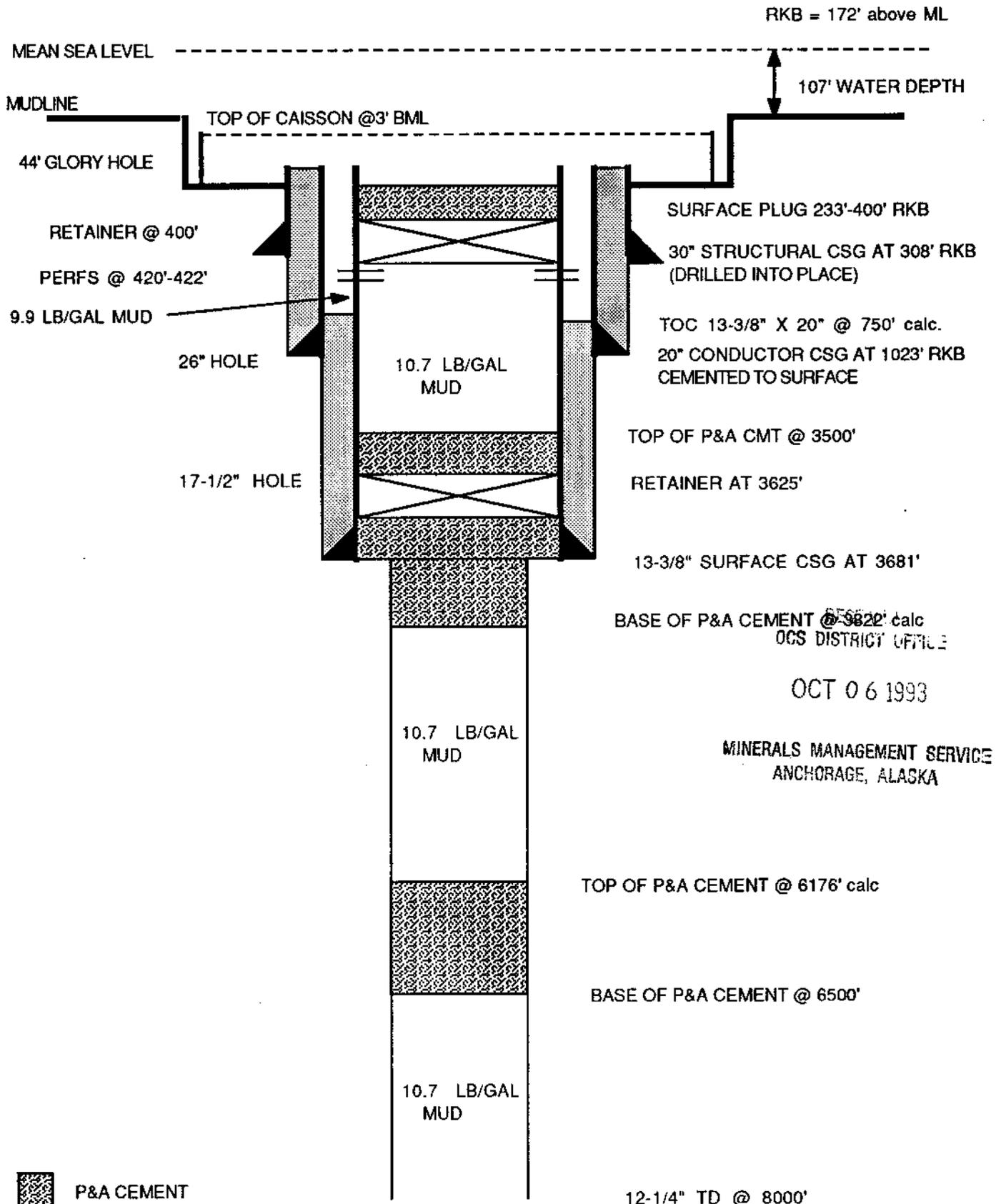
**PAPERWORK REDUCTION ACT STATEMENT**

The Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et seq.) requires us to inform you that: This information is being collected to obtain knowledge of the equipment, materials, and procedures to be used during well abandonment operations. This information will be used by MMS District Supervisors to evaluate and approve or disapprove the adequacy of the equipment, materials, and/or procedures which the lessee plans to use during the conduct of well-abandonment operations including temporary abandonments. Response to this request is mandatory (43 U.S.C. 1334).

Public reporting burden for this form is estimated to average 1/2 hour per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 2300, Minerals Management Service, 361 Eldon Street, Herndon, VA 22070-4817; and Office of Management and Budget, Paperwork Reduction Project (OMB No. 1010-0077), Washington, DC 20503.

# KUVLUM #3

ACTUAL P&A STATUS OF EXPLORATION WELL



OCT 06 1993

## Kuvlum #3 P&A Procedure

### General Information

MINERALS MANAGEMENT SERVICE  
ANCHORAGE, ALASKA

**Geometry:** Mudline @ 172' RKB  
30" @ 308' RKB  
20" @ 1023' RKB  
13-3/8" @ 3681' RKB  
12-1/4" hole at 8000'

Hydrocarbon Zone :  
6330'-6375'

1. Completed logging runs, RIH with drill pipe to 6850'.
2. Spotted a balanced 50 bbl viscous pill (10.7 ppg) from 6850' to 6500'.
3. Placed a balanced 15.8 ppg 226 sx (264 cu ft or 47 bbl) cement plug on top of viscous mud pill from 6500'-6177'. Preliminary Dowell pill formula is:

226 sx Class G  
.5% D-800 retarder

Yield= 1.17 cu. ft./sk

4. POH with open ended drill pipe.
5. Set EZSV retainer at 3625' RKB with 13-3/8" shoe @ 3681'.
6. Mixed and pumped 227 sx (268 cu ft or 48 bbl) Class G cement.

227 sx Class G  
.05 G/sk D-47 anti-foam  
2% CaCl<sub>2</sub>

Yield= 1.18 cu. ft./sk

7. Pump 29 bbl (163 cu ft) cement below retainer.
8. Unstung from retainer and placed 19 bbl (105 cu ft) of cement on top of retainer. Top of cement at 3500'.
9. POH with drill pipe.
10. Shot holes in 13-3/8" 68# L-80 casing at 420-452'.
11. POH with wireline. Closed blind rams and pressure tested 13-3/8" x 20" annulus to 500 psi via perforation holes. Held OK.

12. RIH with EZSV bridge plug on drill pipe and set at 400'.

13. Placed balanced cement plug of 151 sx (25 bbl or 140 cu ft) Arctic Set I from 400' to 233' RKB. (Mudline @ 172' RKB)

151 sx (25 bbls) Arctic Set I @ 15.8 ppg      Yield= 0.93cu. ft./sk  
.15% D-13

14. POH and disconnected from well and prepared to move. Left wellhead on Kuvlum #3. A waiver has been verbally granted to leave the top of caisson at 3' BML.

15. Performed diver search on Kuvlum #3 wellbore for site clearance on 10/5/93.

TAB 10/6/93

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MINERALS MANAGEMENT SERVICE  
ANCHORAGE, ALASKA

SEP 16 1993

OMB APPROVAL NO. 1010-0045

EXPIRES: OCTOBER 31, 1991

SUBMIT: Original,

two copies, and one public information copy.

Minerals Management Service  
Anchorage, Alaska

**SUNDRY NOTICES AND REPORTS ON WELLS**

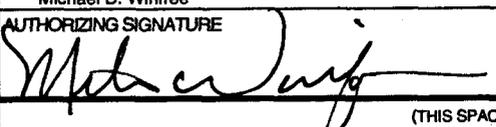
1. FIELD NAME Wildcat		2. MMS LEASE, UNIT OR COMM. NO. (6) Y 0866 0		3. MMS OPERATOR NUMBER (5) 0635																									
4. OPERATOR WELL NUMBER (6) 3		5. API NUMBER (10) or (12) STATE (2) COUNTY (3) WELL CODE (5) 55 171 00010		SIDE TRACK(2) NA	COMPLETION CODE (3) E																								
6. TYPE WELL (1) E		7. CORRECTED ELEVATION (5) -172' (ML-RKB)		8. OPERATOR NAME AND ADDRESS (SUBMITTING OFFICE) ARCO Alaska, Inc. PO Box 100360 Anchorage, AK 99510-0360																									
9. CURRENT WELL DEPTH (5) MD 1805' TVD 1805' LEAVE BLANK		10. CORRECTED WATER DEPTH (5) 107'		11. CORRECTED LOCATION OF WELL (12) Surface: 7743' FWL and 9643' FSL of Block 673 Production zone: NA Total depth: NA																									
12. OPERATING AREA CODE (2) FI		13. BLOCK NUMBER (6) 0673		14. MAP OR OFFICIAL PROTRACTION DIAGRAM NUMBER (7) NR 6-4, Flaxman Island																									
15. OPERATOR LEASE, UNIT OR COMMUNITIZATION NAME Kuvlum		16. RIG/PLATFORM NAME BeaDril - Kulluk		17. RIG TYPE (2) SS																									
18. WELL STATUS, e.g., shut-in, drilling, etc. Drilling		19. LAST CASING STRING: size, lb/ft, grade, and setting depth (MD) 20", 133#/ft, X-56 @ 1022'		20. APPROXIMATE START DATE (6) YYMMDD 93 08 30																									
21. PRESENT PRODUCTION ZONE, IF ANY, AND PRODUCTIVE CAPABILITY NA																													
22. CHECK APPROPRIATE ACTIVITY:		<table border="0"> <tr> <td>Fracture/acidize</td><td><input type="checkbox"/></td> <td>Artificial Lift</td><td><input type="checkbox"/></td> <td>Other</td><td><input checked="" type="checkbox"/></td> </tr> <tr> <td>Pull or alter casing</td><td><input type="checkbox"/></td> <td>Repair well</td><td><input type="checkbox"/></td> <td>Perforate</td><td><input type="checkbox"/></td> </tr> <tr> <td>Sidetrack</td><td><input type="checkbox"/></td> <td>Deepen</td><td><input type="checkbox"/></td> <td>Plug back</td><td><input type="checkbox"/></td> </tr> <tr> <td>Reenter to complete</td><td><input type="checkbox"/>*</td> <td>Multiple complete</td><td><input type="checkbox"/>*</td> <td>Recomplete</td><td><input type="checkbox"/>*</td> </tr> </table> <p>Note: Submit a separate Well (Re) Completion Report and a subsequent report of operations on this form for each completion. Alternatively, submit a Well (Re) Completion Report for each completion with a narrative as in item 23 of this form.</p>				Fracture/acidize	<input type="checkbox"/>	Artificial Lift	<input type="checkbox"/>	Other	<input checked="" type="checkbox"/>	Pull or alter casing	<input type="checkbox"/>	Repair well	<input type="checkbox"/>	Perforate	<input type="checkbox"/>	Sidetrack	<input type="checkbox"/>	Deepen	<input type="checkbox"/>	Plug back	<input type="checkbox"/>	Reenter to complete	<input type="checkbox"/> *	Multiple complete	<input type="checkbox"/> *	Recomplete	<input type="checkbox"/> *
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<p>23. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details in this space and on the reverse, and/or on an attachment, and give pertinent dates, including estimated date for starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)</p> <ol style="list-style-type: none"> <li>Actual water depth for Kuvlum #3 location = 107', RKB to ML = 172'</li> <li>Actual location for Kuvlum #3: Lat = 70° 19' 36.78" Long = 145° 24' 14.67" 7743' FWL, 9643' FSL of Block 673, NR6-4 Final well location plat attached</li> <li>Well was spudded 06:00 hrs 9/9/93.</li> <li>30" structural casing installation was completed at 23:00 9/9/93. 30" casing detail attached.</li> <li>20" conductor casing installed 9/11/93. CIP @ 13:50 9/11/93. Casing was cemented with 4076 sx (3750 cu ft) of Arctic Set I @ 15.7 ppg with 0.6% D-13. Cement was pumped through a drill pipe inner string. Cement returns to glory hole were confirmed by airlift samples to surface. Casing shoe would not pressure test and shoe was successfully squeezed with 500 sx (466 cu ft) of Arctic Set I @ 15.7 ppg. 20" casing detail attached.</li> <li>A formation "Leak off Test" was performed after drilling 10' of new formation below the 20" casing. A 14.3 ppg EMW test was obtained. Details of LOT are attached.</li> <li>Top of caisson is 3' below mudline. Waiver was verbally granted by Mr. Brian Schoof on 9/9/93 to allow caisson to remain at this depth during P&amp;A operations.</li> </ol>																													

23. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (continued from page 1)

SUBSURFACE SAFETY VALVE: SUBSURFACE CONTROLLED  SURFACE CONTROLLED  SET AT DEPTH OF \_\_\_\_\_

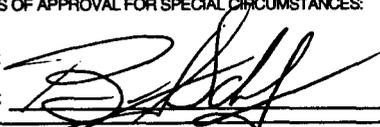
MANUFACTURER: \_\_\_\_\_ MODEL NO. \_\_\_\_\_ SERIAL NO. \_\_\_\_\_

WARNING: PUBLIC LAW 97-451 provides civil and criminal penalties for false or inaccurate reporting. Failure to report as required under the terms of the lease, permit, or contract may result in suspension of operations or other enforcement actions.

CONTACT NAME (First, MI, Last) Tim Billingsley	PHONE NUMBER (10) (907) 265-6575	EXTENSION NUMBER (4)
AUTHORIZING NAME (First, MI, Last) Michael B. Winfree	TITLE New Ventures Area Drilling Engineer	
AUTHORIZING SIGNATURE 	DATE YYMMDD (6) 93 09 28	

(THIS SPACE IS FOR FEDERAL OFFICE USE)

CONDITIONS OF APPROVAL FOR SPECIAL CIRCUMSTANCES: ARE ATTACHED  NONE

APPROVED BY:  TITLE: District Supervisor 93/9/28

ACCEPTED BY: \_\_\_\_\_ DATE (6) YYMMDD

PAPERWORK REDUCTION ACT STATEMENT

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Public Information

**SUNDRY NOTICES AND REPORTS ON WELLS**

1. FIELD NAME Wildcat		2. MMS LEASE, UNIT OR COMM. NO. (6) Y 0866 0		3. MMS OPERATOR NUMBER (5) 0635	
4. OPERATOR WELL NUMBER (6) 3	5. API NUMBER (10) or (12) STATE (2) COUNTY (3) WELL CODE (5) 55 171 00010	SIDE TRACK(2) NA	COMPLETION CODE (3) NA	6. TYPE WELL (1) E	7. CORRECTED ELEVATION (5) -172' (ML-RKB)
8. OPERATOR NAME AND ADDRESS (SUBMITTING OFFICE) ARCO Alaska, Inc. PO Box 100360 Anchorage, AK 99510-0360		9. CURRENT WELL DEPTH (5) MD 3681' TVD 3681' LEAVE BLANK		10. CORRECTED WATER DEPTH (5) 107'	
11. CORRECTED LOCATION OF WELL (12) Surface: 7743' FWL and 9643' FSL of Block 673 Production zone: NA Total depth: NA			12. OPERATING AREA CODE (2) FI	13. BLOCK NUMBER (6) 0673	
15. OPERATOR LEASE, UNIT OR COMMUNITIZATION NAME Kuvlum			16. RIG/PLATFORM NAME BeauDriI - Kulluk		17. RIG TYPE (2) SS
18. WELL STATUS, e.g., shut-in, drilling, etc. Drilling	19. LAST CASING STRING: size, lb/ft, grade, and setting depth (MD) 13-3/8", 68#, L-80, BTC @ 3681'		20. APPROXIMATE START DATE (6) YYMMDD 93 08 30		
21. PRESENT PRODUCTION ZONE, IF ANY, AND PRODUCTIVE CAPABILITY NA					
22. CHECK APPROPRIATE ACTIVITY:		Fracture/acidize <input type="checkbox"/>	Artificial Lift <input type="checkbox"/>	Other <input checked="" type="checkbox"/>	
Data correction <input type="checkbox"/>		Pull or alter casing <input type="checkbox"/>	Repair well <input type="checkbox"/>	Perforate <input type="checkbox"/>	
Change plans <input type="checkbox"/>		Sidetrack <input type="checkbox"/>	Deepen <input type="checkbox"/>	Plug back <input type="checkbox"/>	
Request approval <input type="checkbox"/>		Reenter to complete <input type="checkbox"/>	Multiple complete <input type="checkbox"/>	Recomplete <input type="checkbox"/>	
Subsequent report <input checked="" type="checkbox"/>		Note: Submit a separate Well (Re) Completion Report and a subsequent report of operations on this form for each completion. Alternatively, submit a Well (Re) Completion Report for each completion with a narrative as in item 23 of this form.			
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Received  
OCS District Office

# Kuvlum #3 Leak-off Test Calculation

WELL:   Kuvlum #3  

DATE/TIME:   9/23/93   1900 Hrs       

SUPERVISOR:   T.B.Campbell  

RIG:   KULLUK  

MUD WEIGHT =   9.8   ppg = MW

TRUE VERTICAL DEPTH =   3715   FEET = TVD

Hydrostatic Pressure @ 13-3/8" Shoe =  $0.052 \times \text{TVD} \times \text{MW} =$    1893   psi

Recorded Surface Pressure for Leak-off = 970 psi

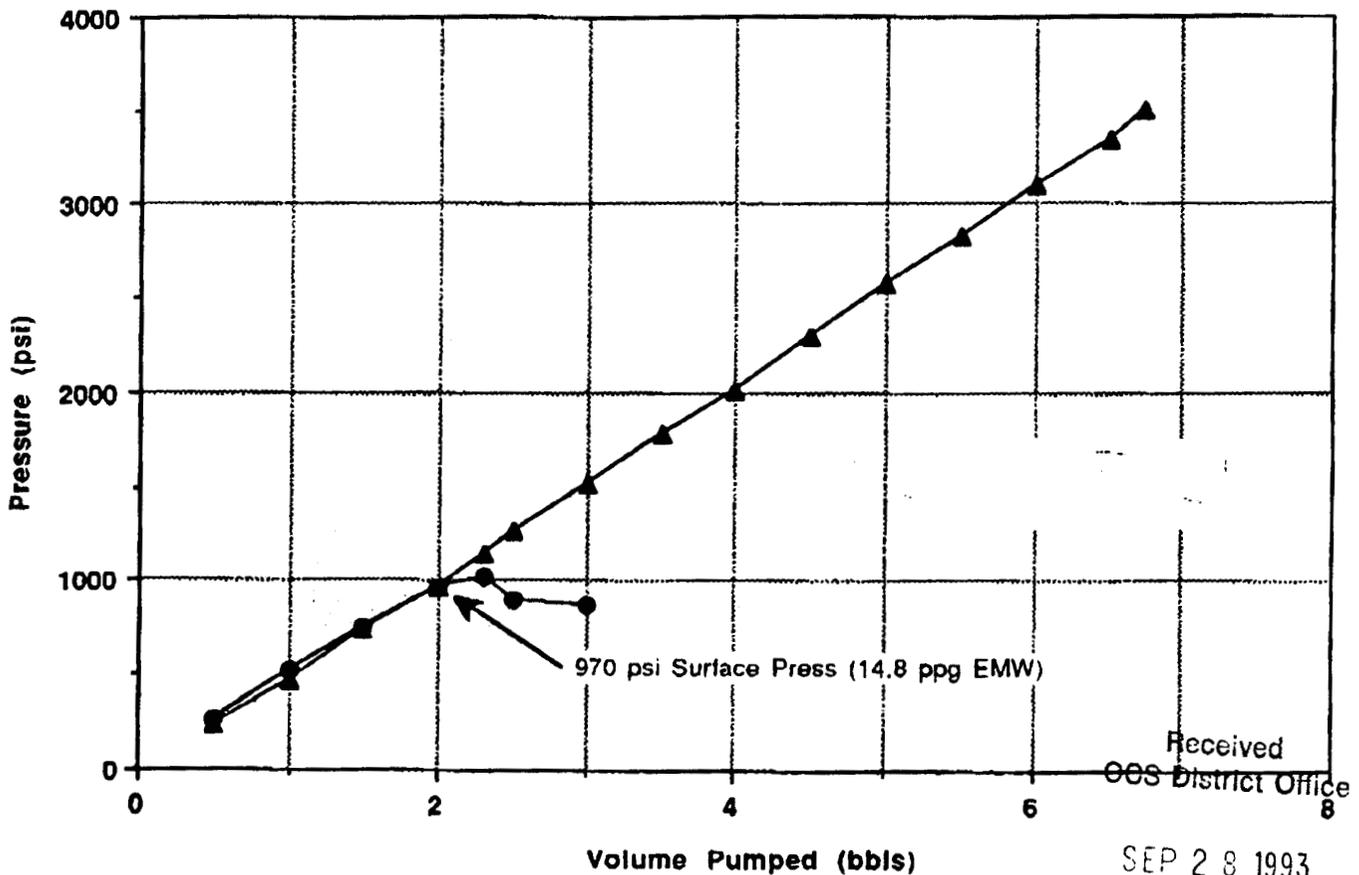
Total Leak-off Pressure on 13-3/8" Shoe = 1893 psi + 970 psi = 2863 psi

Equivalent Mud Weight @ 13-3/8" Shoe =  $2863 \text{ psi} / (3715 \text{ ft} \times 0.052) =$    14.8   ppg

Instantaneous Shut-down Pressure = 860 psi. Pressure Bled to 770 psi in 5 mins.

Pumped Total of 3 bbls. Held Pressure for 5 minutes and bled back 2-3/4 bbls.

## Kuvlum #3: 13-3/8" Leak-off Test Pressure Profile



Received  
GOS District Office

SEP 28 1993

Minerals Management Service  
Anchorage, Alaska

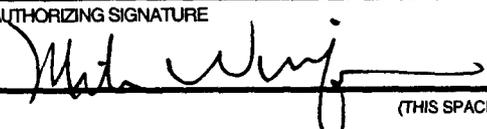


23. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (continued from page 1)

SUBSURFACE SAFETY VALVE: SUBSURFACE CONTROLLED  SURFACE CONTROLLED  SET AT DEPTH OF \_\_\_\_\_

MANUFACTURER: \_\_\_\_\_ MODEL NO. \_\_\_\_\_ SERIAL NO. \_\_\_\_\_

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AUTHORIZING NAME (First, MI, Last) Michael B. Winfree	TITLE New Ventures Area Drilling Engineer	
AUTHORIZING SIGNATURE 	DATE YYMMDD (6) 93 09 28	

(THIS SPACE IS FOR FEDERAL OFFICE USE)

CONDITIONS OF APPROVAL FOR SPECIAL CIRCUMSTANCES:

ARE ATTACHED NONE  APPROVED BY: ACCEPTED BY:

DATE (6)

YYMMDD

93/9/30

TITLE

OCS DISTRICT SUPERVISOR

**PAPERWORK REDUCTION ACT STATEMENT**

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15. OPERATOR LEASE, UNIT OR COMMUNITIZATION NAME Kuvlum		16. RIG/PLATFORM NAME BeauDril - Kulluk		17. RIG TYPE (2) SS	
18. WELL STATUS, e.g., shut-in, drilling, etc. Drilling		19. LAST CASING STRING: size, lb/ft, grade, and setting depth (MD) 13-3/8", 68#/ft, L-80, BTC @ 3681'		20. APPROXIMATE START DATE (6) YYMMDD 93 08 30	
21. PRESENT PRODUCTION ZONE, IF ANY, AND PRODUCTIVE CAPABILITY NA					
22. CHECK APPROPRIATE ACTIVITY:					
Data correction <input type="checkbox"/>		Fracture/acidize <input type="checkbox"/>	Artificial Lift <input type="checkbox"/>	Other <input checked="" type="checkbox"/>	
Change plans <input type="checkbox"/>		Pull or alter casing <input type="checkbox"/>	Repair well <input type="checkbox"/>	Perforate <input type="checkbox"/>	
Request approval <input type="checkbox"/>		Sidetrack <input type="checkbox"/>	Deepen <input type="checkbox"/>	Plug back <input type="checkbox"/>	
Subsequent report <input checked="" type="checkbox"/>		Reenter to complete <input type="checkbox"/> *	Multiple complete <input type="checkbox"/> *	Recomplete <input type="checkbox"/> *	
Note: Submit a separate Well (Re) Completion Report and a subsequent report of operations on this form for each completion. Alternatively, submit a Well (Re) Completion Report for each completion with a narrative as in item 23 of this form.					
23. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details in this space and on the reverse, and/or on an attachment, and give pertinent dates, including estimated date for starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)					
<p>1 13-3/8" Surface Casing installed 9/21/93 to 3681'. CIP @ 17:45 hrs 9/21/93. Casing was cemented with 990 sx (308 bbls) Class G w/2% gel and 2% CaCl2 @ 13.5 ppg; and 390 sx (80 bbl) Class G w/2% CaCl2 @ 15.8 ppg. Subsea launched wiper plugs were utilized. 13-3/8" casing detail attached.</p> <p>Note: Verbal approval was obtained from Mr. James Regg-MMS on 9/15/93 to alter the casing point above the APD plan of 4000' due to permeable sands being present in the ±4000' interval.</p> <p>2 A formation Leak Off Test was performed after drilling 10' of new formation below the 13-3/8" casing shoe. A 14.9 ppg EMW test was obtained. Pressure vs Volume chart is attached.</p>					

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23. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (continued from page 1)

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Minerals Management Service  
Anchorage, Alaska

SUBSURFACE SAFETY VALVE: SUBSURFACE CONTROLLED  SURFACE CONTROLLED  SET AT DEPTH OF \_\_\_\_\_

MANUFACTURER: \_\_\_\_\_ MODEL NO. \_\_\_\_\_ SERIAL NO. \_\_\_\_\_

WARNING: PUBLIC LAW 97-451 provides civil and criminal penalties for false or inaccurate reporting. Failure to report as required under the terms of the lease, permit, or contract may result in suspension of operations or other enforcement actions.

CONTACT NAME (First, MI, Last)  Tim Billingsley	PHONE NUMBER (10)  (907) 265-6575	EXTENSION NUMBER (4)
AUTHORIZING NAME (First, MI, Last)  Mike B. Winfree	TITLE  New Ventures Area Drilling Engineer	
AUTHORIZING SIGNATURE  <i>T.W. Melf FOR M.B. WINFREE</i>	DATE YYMMDD (6)  93 09 14	

(THIS SPACE IS FOR FEDERAL OFFICE USE)

CONDITIONS OF APPROVAL FOR SPECIAL CIRCUMSTANCES: ARE ATTACHED  NONE

APPROVED BY: *[Signature]* TITLE *DISTRICT SUPERVISOR* DATE (6) *93/09/20*  
 ACCEPTED BY: \_\_\_\_\_

**PAPERWORK REDUCTION ACT STATEMENT**

The Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et seq.) requires us to inform you that: This information is being collected to obtain knowledge of the equipment and procedures to be used during well-completion, workover, and production operations. This information will be used by the District Supervisor to evaluate and approve or disapprove the adequacy of the equipment and procedures to safely perform the proposed operations. Response to this request is mandatory (43 U.S.C. 1334).

Public reporting burden for this form is estimated to average 1/2 hour per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 631, Minerals Management Service, 12203 Sunrise Valley Drive, Reston, VA 22091; and Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.