

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

WELL FILE

ONPRA  
MENDOTA PARK  
FILE COPY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well  gas well  other

2. NAME OF OPERATOR National Petroleum Reserve in Alaska (through Husky Oil NPR Operations, Inc.)

3. ADDRESS OF OPERATOR  
2525 C Street, Suite 400, Anchorage, AK 99503

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 2403' FSL, 1488' FEL  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH: Same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>		<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>		<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>		<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>		<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>		<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>		<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>		<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>		<input type="checkbox"/>

(other) Subsequent Notice of Running and Cementing 7 5/8" Casing

5. LEASE	N/A
6. IF INDIAN, ALLOTTEE OR TRIBE NAME	N/A
7. UNIT AGREEMENT NAME	N/A
8. FARM OR LEASE NAME	National Petroleum Reserve in Alaska
9. WELL NO.	Tunalik Test Well No. 1
10. FIELD OR WILDCAT NAME	Wildcat
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	Sec 20, T10N, R36W, UM
12. COUNTY OR PARISH	13. STATE
North Slope	Alaska
14. API NO.	
15. ELEVATIONS (SHOW DF, KDB, AND WD)	

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of 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.)\*

An 8 1/2" hole was drilled to 14,726' and logged with the DIL/GR/SP, FDC/CNL/GR/CAL, BHCS/GR/TTL, Dipmeter, and Velocity Survey. Ran 63 joints (2690.13') of 7 5/8" casing to 14,719.24'. Top of liner at 12,029'. Dropped ball and sheared seat at 2900 psi. Circulated and conditioned hole. Mixed 12 bbls of SAM V spacer at 18.5 ppg. Cemented with 258 sacks of Class "G" cement with 1% CFR-2, 0.5% Halad 22-A, .4% LWL, 35% silica flour, sixteen #/sack of High Dense II, and 0.5% No Foam Powder with a slurry weight of 18.5 ppg. Displaced with 276 bbls mud at 3 1/2 to 4 BPM. Bumped plug with 3000 psi. CIP 8/3/79 at 11:00 AM. Had full returns throughout the whole job. Waited on cement. Tested liner lap to 3000 psi. OK. Tested BOPE to 10,000 psi. OK. Picked up Howco DST test tools. Ran a negative flow lap test to 2500 psi differential. Good test. Ran a CBL/VDL/GR from 12,010' to 14,640' with satisfactory results. Drilled landing collar and cement from 14,629' to 14,726'. Drilled 10' of formation to 14,736'. Tested formation to 19.2 ppg equivalent gradient. No observed leak off. Drilling ahead.  
Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Max Brewer TITLE Chief of Operations DATE 4 September 79

(This space for Federal or State office use)

TITLE \_\_\_\_\_ DATE \_\_\_\_\_

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH: Same

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NOTICE OF INTENT TO:		SUBSEQUENT REPORT OF:	
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FRACTURE TREAT	<input type="checkbox"/>		<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>		<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>		<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>		<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>		<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>		<input type="checkbox"/>
ABANDON*	<input checked="" type="checkbox"/>		<input type="checkbox"/>
(other)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of 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.)\*

This is a confirming notice to abandon Tunalik Test Well No. 1. The plan was discussed with Mr. Jim Webber on 12/21/79. This well was drilled to 20,335' and logged. An earlier set of logs at 18,295' were also used in the evaluation and decision to abandon the well. The abandonment procedure is attached.

5. LEASE N/A	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A	
7. UNIT AGREEMENT NAME N/A	
8. FARM OR LEASE NAME National Petroleum Reserve in Alaska	
9. WELL NO. Tunalik Test Well No. 1	
10. FIELD OR WILDCAT NAME Wildcat	
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 20, T10N, R36W, UM	
12. COUNTY OR PARISH North Slope	13. STATE Alaska
14. API NO.	
15. ELEVATIONS (SHOW DF, KDB, AND WD) GR = 80'; Pad = 85'; KB = 110'	

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Max S. Brewer TITLE Chief of Operations DATE 15 January 80

(This space for Federal or State office use)

\_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

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TUNALIK TEST WELL NO. 1  
ABANDONMENT PROCEDURE

1. Trip in with open ended drill pipe to  $\pm$  18,450'.
2. Condition mud to a uniform weight and viscosity for plugging.
3. Spot Plug No. 1, a 120-sack Class "G" plug, with 40% Silicia Flour, 0.6% Halad 22A, 1% CFR-2, 2.2% HR 12, 1.1% HR 20, mixed @ 17ppg. Mix water 4.77 gal/sack, yield 1.35 ft<sup>3</sup>/sack. This is a 750' plug (top  $\pm$  17,700') in 6 1/4" hole. Spot a balanced plug with 5 bbls water ahead and 1 bbl water behind the cement.
4. Pull up to  $\pm$  17,200'. Condition mud at least one hole volume.
5. Spot Plug No. 2, a 156-sack, Class "G" plug, with 40% Silicia Flour, 0.6% Halad 22A, 1% CFR-2, 2.2% HR 12, 1.1% HR 20, mixed @ 17 ppg. Mix water 4.77 gal/sack, yield 1.35 ft<sup>3</sup>/sack. This is a 990' plug (top  $\pm$  16,210') in 6 1/4" hole. Spot a balanced plug with 5 bbls water ahead and 1 bbl water behind cement.
6. Pull up to  $\pm$  15,700' and condition mud at least one hole volume.
7. Spot Plug No. 3, a 243-sack Class "G" plug, with 1% CFR-2, 0.5% Halad 22A, 35% Silicia Flour, 27% High Dense III, mixed @ 18.9 ppg. Mix water 4.09 gallon/sack, yield 1.33 ft<sup>3</sup>/sack. This is  $\pm$  980' of 6 1/4" hole and  $\pm$  100' in 7 5/8" liner. Spot a balanced plug with 10 bbls water ahead and 2 bbls water behind cement.
8. Pull up to  $\pm$  14,250'. Condition at least one hole volume.
9. Trip out and pick up a 6 1/4" bit and 7 5/8", 39# scraper. Clean out to  $\pm$  14,100'. Circulate bottoms up. Trip out and pick up Howco E-Z Drill 7 5/8", 39# retainer on DP. Trip in and set retainer @  $\pm$  14,000'.
10. Pull up to  $\pm$  12,200'. Condition mud.
11. Spot Plug No. 4, a 200 sack Class "G" plug, with 1% CFR-2, 0.2% HR-7, 0.75% Halad 22A, mixed at 17.0 ppg. Mix water 3.5 gal/sack, yield 1.0 ft<sup>3</sup>/sack. This is 175' in 7 5/8" casing and 400' in 8 1/2" casing (top  $\pm$  11,625'). Spot a balanced plug with 10 bbls water ahead and 1 bbl water behind cement.
12. Pull up to  $\pm$  11,500'. Condition mud at least one hole volume.
13. Trip out and pick up 8 1/2" bit and 9 5/8", 53.5# scraper. Clean out to  $\pm$  11,250'. Circulate bottoms up and until conditioned.
14. Trip out and pick up Howco EZ Drill 9 5/8", 53.5# retainer on DP. Trip in and set retainer @  $\pm$  11,200'.

15. Trip out, laying down 3 1/2" DP and 4 3/4" DCs and excess 4 1/2" DP. Pick up Howco 9 5/8", 53.5# E-Z Drill retainer on 4 1/2" DP. Trip in to  $\pm$  2100' (above FO at 2149') and set retainer. Pull out of retainer.
16. Reverse mud to water.
17. Spot Plug No. 5, a 100-sack Permafrost Cement plug, mixed at 14.9 ppg. Mix water 3.5 gal/sack, yield 0.95 ft<sup>3</sup>/sack. This is a 240' plug in 9 5/8" casing. Spot a balanced plug. Displace with water.
18. Pull up to  $\pm$  1850'. Reverse out drill pipe.
19. Reverse out water with diesel. The approximate volume of 1850' of 9 5/8" casing with 4 1/2" DP in place is approximately 120 bbls. Trip out, laying down DP. DO NOT fill casing to surface. Leave  $\pm$  25' of 9 5/8" casing empty.
20. Nipple down BOP stack.
21. Rig up 4" line pipe and 11", 10,000 psi head cover and dry hole marker. Set the 4" pipe  $\pm$  10' below the surface. Put a flared wire line entry guide on the bottom of the 4".
22. Clean mud pits and release rig. Rig down for movement to Awuna Test Well No. 1. Clean location.

Information for wellhead marker:

USGS - ONPRA  
Tunalik Test Well No. 1  
2403' FSL, 1488' FEL  
SE 1/4, SEC 20, T10N, R36W, UM

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AT SURFACE: 2403' FSL; 1488' FEL

AT TOP PROD. INTERVAL:

AT TOTAL DEPTH: Same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

PULL OR ALTER CASING

MULTIPLE COMPLETE

CHANGE ZONES

ABANDON\*

(other)

5. LEASE

N/A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

7. UNIT AGREEMENT NAME

N/A

8. FARM OR LEASE NAME National Petroleum Reserve in Alaska

9. WELL NO.

Tunalik Test Well No. 1

10. FIELD OR WILDCAT NAME

Wildcat

11. SEC. T., R., M., OR BLK. AND SURVEY OR AREA

Sec 20, T10N, R36W, UM

12. COUNTY OR PARISH 13. STATE:

North Slope

Alaska

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
GR 80'; Pad 85'; KB 110'

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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Trip in with open ended drill pipe to 18,462'. Condition mud to a uniform weight and viscosity for plugging. Spot Plug No. 1, a 120-sack Class "G" plug, with 40% Silicia Flour, 0.6% Halad 22A, 1% CFR-2, 2.2% HR 12, 1.1% HR 20, mixed at 17 ppg. Mix water 4.77 gal/sack, yield 1.35 ft<sup>3</sup>/sack. This is a 750' plug (top 17,696') in 6 1/4" hole. Spot a balanced plug with 5 bbls water ahead and 1 bbl water behind the cement. CIP 11:30 PM, 12/29/79. Pull up to 17,217'. Condition mud. Start Plug No. 2. Trouble getting cement. Reverse DP and start over. Spot Plug No. 2, a 156-sack, Class "G" plug, with 40% Silicia Flour, 0.6% Halad 22A, 1% CFR-2, 2.2% HR 12, 1.1% HR 20, mixed at 17 ppg. Mix water 4.77 gal/sack, yield 1.35 ft<sup>3</sup>/sack. This is a 990' plug (top 16,227') in 6 1/4" hole. Spot a balanced plug with 5 bbls water ahead and 1 bbl water behind cement. CIP 8:00 AM, 12/30/79. Pull up to 15,727' and condition mud. Spot Plug No. 3, a 243-sack Class "G" plug, with 1% CFR-2, 0.5% Halad 22A, 35% Silicia Flour, 27% High Dense III, mixed at 18.9

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED John Brewer TITLE Chief of Operations DATE 16 January 80

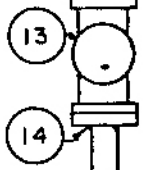
(This space for Federal or State office use)

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221.

Sundry Notices and Reports on Wells  
Tunalik Test Well No. 1  
Subsequent Report of Abandonment  
Page 2

ppg. Mix water 4.09 gallon/sack, yield 1.33 ft<sup>3</sup>/sack. This is ± 980' of 6 1/4" hole and ± 100' in 7 5/8" liner. Spot a balanced plug with 10 bbls water ahead and 2 bbls water behind cement. Top of plug 14,647'. CIP at 2:00 PM, 12/30/79. Pull up to 14,170'. Condition mud. Trip out and pick up a 6 1/4" bit and 7 5/8", 39# scraper. Clean out to 14,076'. Circulate bottoms up. Trip out and pick up Howco E-2 Drill 7 5/8", 39# retainer on DP. Trip in and set retainer at 14,000'. Pull up to 12,206'. Condition mud. Spot Plug No. 4, a 200 sack Class "G" plug, with 1% CFR-2, 0.2% HR-7, 0.75% Halad 22A, mixed at 17.0 ppg. Mix water 3.5 gal/sack, yield 1.0 ft<sup>3</sup>/sack. This is 175' in 7 5/8" casing and 400' in 8 1/2" casing (top 11,230'). Spot a balanced plug with 10 bbls water ahead and 1 bbl water behind cement. CIP at 1:30 AM, 1/1/80. Pull up to 11,500'. Condition mud. Trip out and pick up 8 1/2" bit and 9 5/8", 53.5# scraper. Clean out to 11,276'. Circulate bottoms up until conditioned. Trip out and pick up Howco EZ Drill 9 5/8", 53.5# retainer on DP. Trip in and set retainer 11,200'. Trip out, laying down 3 1/2" DP and 4 3/4" DCs and excess 4 1/2" DP. Pick up Howco 9 5/8", 53.5# E-2 Drill retainer on 4 1/2" DP. Trip in to 2065' (above FO at 2149') and set retainer. Pull out of retainer. Reverse mud to water. Spot Plug No. 5, a 100-sack Permafrost Cement plug, mixed at 14.9 ppg. Mix water 3.5 gal/sack, yield 0.95 ft<sup>3</sup>/sack. This is a 240' plug in 9 5/8" casing. Spot a balanced plug. Displace with water. Top at 1825'. CIP at 12:30 PM, 1/3/80. Pull up to 1800'. Reverse out drill pipe. Reverse out water with diesel. Trip out, laying down DP. Nipple down BOP stack. Rig up 4" line pipe and 11", 10,000 psi head cover and dry hole marker. Set the 4" pipe ± 10' below the surface. Put a flared wire line entry guide on the bottom of the 4". Clean mud pits and release rig at 6:00 AM, 1/7/80. Rig down for movement to Awuna Test Well No. 1. Clean location.

1/2" NEEDLE VALVE  
 2" x 1/2" BULL PLUG, TAPPED  
 2" x 4" SWAGE  
 4" COLLAR



4" LINE PIPE

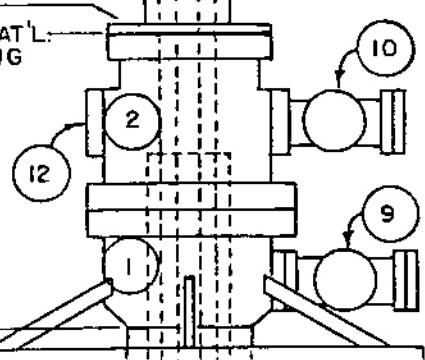
USGS/ONPRA

MARKER AS FOLLOWS IN WELDED WRITING ON PIPE

USGS/ONPRA  
 TUNALIK TEST WELL No. 1  
 2403' FSL and 1488' FEL  
 SEC. 20, T.10N., R.36 W., U.M.

GUSSET

1/2" STEEL  
 1/8" GASKET MAT'L.  
 PACK A.P.I. RING  
 WITH GREASE

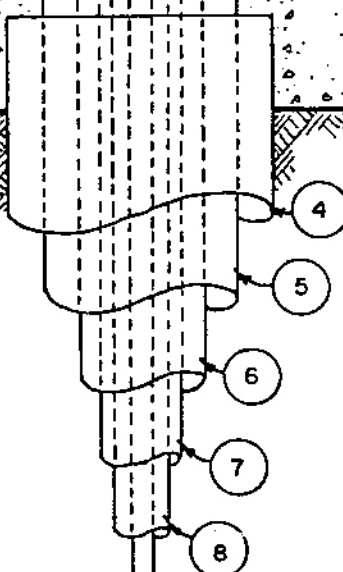


- 1. 20", 3000 psi Slip On Head, National.
- 2. 20", 3000 psi x 13 5/8", 5000 psi Casing Spool.

- 4. 42" Casing.
- 5. 30" Casing.
- 6. 20" Casing.
- 7. 13 3/8" Casing.
- 8. 9 5/8" Casing.
- 9. 3", 3000 psi, 3" L.P. Gate Valve.
- 10. 3", 5000 psi, Gate Valve.

- 12. 3", 5000 psi, Blanking Flange.
- 13. 4", ANSI 150 psi Ball Valve.
- 14. 4", ANSI 150 psi R F Flange (slip-on).

±10'



TUBING

**TUNALIK TEST WELL No. 1**

2403' FSL and 1488' FWL  
 Sec. 20, T.10 N., R.36 W., U.M.

**HUSKY OIL N.P.R. Operations**  
**NATIONAL PETROLEUM RESERVE in ALASKA**

ABANDONMENT HEAD