



**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY**

5. LEASE DESIGNATION AND SERIAL NO.

**Atlantic - U-06104-B**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

**Hiawatha Unit**

8. FARM OR LEASE NAME

**Hiawatha Unit**

9. WELL NO.

**1**

10. FIELD AND POOL, OR WILDCAT

**Wildcat**

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

**Sec. 13-15S-7E SIM & Base**

12. COUNTY OR PARISH | 13. STATE

**Carbon | Utah**

**APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK**

1a. TYPE OF WORK

DRILL  DEEPEN  PLUG BACK

b. TYPE OF WELL

OIL WELL  GAS WELL  OTHER  SINGLE ZONE  MULTIPLE ZONE

2. NAME OF OPERATOR

**Humble Oil & Refining Company**

3. ADDRESS OF OPERATOR

**P. O. Box 120, Denver, Colorado 80201**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*)

At surface

**SW-NE (1980' FNL & 1973' FEL) of Section 13-15S-7E**

At proposed prod. zone

**Same**

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

**Approximately 4 miles NW of Hiawatha, Utah.**

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. line, if any)

**653'**

16. NO. OF ACRES IN LEASE

**840**

17. NO. OF ACRES ASSIGNED TO THIS WELL

**840**

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

**None**

19. PROPOSED DEPTH

**15,000'**

20. ROTARY OR CABLE TOOLS

**Rotary**

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

**10,046' Ungraded Ground**

22. APPROX. DATE WORK WILL START\*

**June 15, 1966**

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
26"	20"	Conductor	60'	Cement to surface ✓
17 1/2"	13-3/8" ✓	61# ✓	2200' ✓	Cement to surface * ✓
9-5/8" & 9"	7"	Various	15000'	Sufficient to cover all pays.

\* - All precautions will be taken to insure a good cement job at least 300' above and below the Hiawatha coal bed. ✓

An Elbert Test. ✓

Mud Program: 0-2500' - Spud mud with sufficient properties to land surface casing. ✓  
2500-TD - Low solids, oil emulsion. ✓

Testing Program: No cores anticipated. DST's dependant on shows. ✓

B.O.P. Program: 12" Series 900 double ram or 2 single with pipe & blind rams. ✓

Lost circulation is anticipated and if it becomes too severe we may convert to an aerated mud. ✓

C-R  
F-L

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED *Roger S. Frazier*

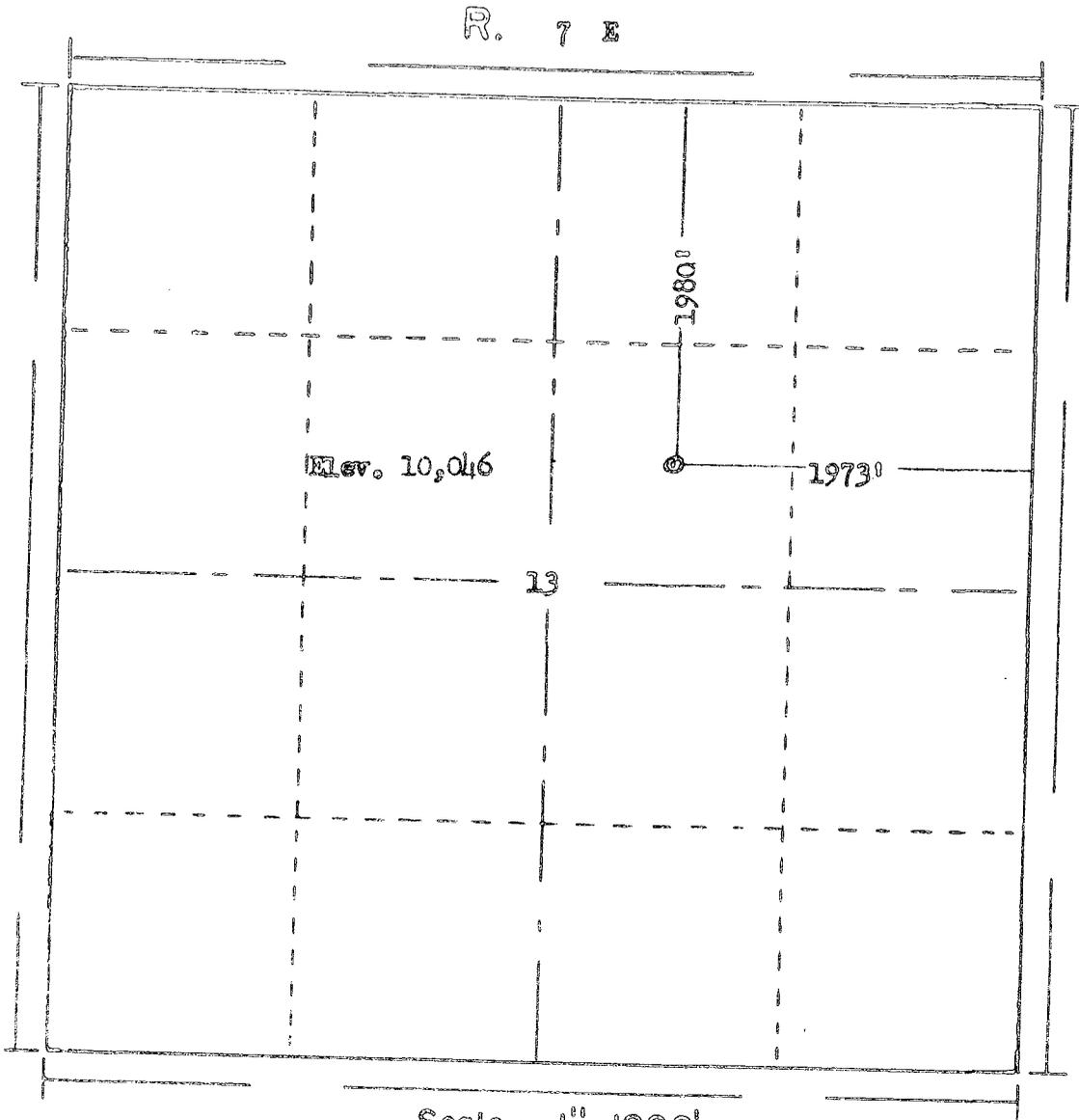
TITLE **District Operations Supt.** DATE **5-23-66**

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:



Scale ... 1" = 1000'

Powers Surveyors, Inc. of Denver, Colorado has in accordance with a request from Mr. Bart Highland for Humble Oil & Refining Co. determined the Location of Humble-Atlantic #1 Hiawatha Unit to be 1980' FN & 1973' FE Section 13 Township 15 South Range 7 East of the Salt Lake Base & Meridian Carbon County, Utah

I hereby certify that this plot is an accurate representation of a correct survey showing the location of Humble-Atlantic #1 Hiawatha Unit

May 12, 1966

*Nelson L. SoRelle*  
 (Nelson L. SoRelle)  
 Licensed Land Surveyor No. 2827  
 State of Utah



# HUMBLE OIL & REFINING COMPANY

DENVER, COLORADO 80201

DENVER DISTRICT

May 23, 1966

POST OFFICE BOX 120

Utah Oil & Gas Conservation Commission  
348 East South Temple  
Salt Lake City, Utah

Gentlemen:

Attached find "Application for Permit to Drill" Hiawatha Unit No. 1, located in Section 13-15S-7E, Carbon County, Utah.

It is Humble's desire to keep all information on this well confidential for the maximum period permissible by your rules and regulations or until released by Humble. ✓

Your approval and assistance will be greatly appreciated. All subsequent reports will be clearly marked "Confidential". If any further information is needed regarding this matter, please advise.

Very truly yours,

J. ROY DORROUGH

By   
Roger S. Frazier

MDS/jal

Attach.



*[Handwritten signature]*

# HUMBLE OIL & REFINING COMPANY

DENVER, COLORADO 80201

DENVER DISTRICT

May 27, 1966

POST OFFICE BOX 120

**REGISTERED MAIL  
RETURN RECEIPT REQUESTED**

Re: Hiawatha Unit No. 1  
SW NE Section 13-T159-R7E  
Carbon County, Utah

United States Fuel Company  
1019 Newhouse Building  
Salt Lake City, Utah

Gentlemen:

In accordance with Rule C-25 of the General Rules and Regulations and Rules of Practice and Procedure of the State of Utah Oil & Gas Conservation Commission, enclosed is a copy of Humble's Notice of Intention to Drill and location plat for the referenced well. This form has been submitted to the United States Department of Interior Geological Survey and the State of Utah Oil & Gas Conservation Commission.

Very truly yours,

**HUMBLE OIL & REFINING COMPANY**

COPY (ORIGINAL SIGNED) J. ROY DORROUGH

By J. Roy Dorrough  
District Superintendent

Attachs.

cc: U. S. G. S.  
Box 777  
Salt Lake City, Utah

Utah Oil & Gas Conser. Comm.  
Newhouse Building  
Salt Lake City, Utah

**STATE OF UTAH**  
**DEPARTMENTAL MEMORANDUM**

From  
DEPARTMENT

DATE:

DIVISION

FILE:

To  
DEPARTMENT

SUBJECT:

DIVISION

May 27, 1966

Humble Oil & Refining Company  
P. O. Box 120  
Denver, Colorado 80201

Re: Well No. Hiawatha Unit #1,  
Sec. 13, T. 15 S., R. 7 E.,  
Carbon County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above mentioned well is hereby granted.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

PAUL W. BURCHELL, Chief Petroleum Engineer  
HOME: 277-2890 - Salt Lake City, Utah  
OFFICE: 328-5771 - 328-5772 - 328-5773

This approval terminates within 90 days if the well has not been spudded-in within said period.

Enclosed please find Form OGCC-8-X, which is to be completed if water sands (aquifers) are encountered while drilling, particularly accessible near surface water sands. Your cooperation with respect to completing this form will be greatly appreciated.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FEIGHT  
EXECUTIVE DIRECTOR

CBF:ah

cc: Rodney Smith, District Engineer  
U. S. Geological Survey  
Salt Lake City, Utah

**CONFIDENTIAL**  
**UNITED STATES**  
**DEPARTMENT OF THE INTERIOR**  
**GEOLOGICAL SURVEY**

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1425.

**APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK**

5. LEASE DESIGNATION AND SERIAL NO.  
**Atlantic - U-06132-B**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
-

7. UNIT AGREEMENT NAME  
**Hiawatha Unit**

8. FARM OR LEASE NAME  
**Hiawatha Unit**

9. WELL NO.  
**1**

10. FIELD AND POOL, OR WILDCAT  
**Wildcat**

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
**Sec. 13-15S-7E SIM & Base**

12. COUNTY OR PARISH  
**Carbon**

13. STATE  
**Utah**

1a. TYPE OF WORK  
 DRILL  REVISION DEEPEN  PLUG BACK

b. TYPE OF WELL  
 OIL WELL  **OF PERMIT APPROVED 5-31-66** SINGLE ZONE  MULTIPLE ZONE   
 WELL  OTHER

2. NAME OF OPERATOR  
**Humble Oil & Refining Company**

3. ADDRESS OF OPERATOR  
**P. O. Box 120, Denver, Colorado 80201**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*)  
 At surface  
**SW-NE (1980' FNL & 1973' FEL) of Section 13-15S-7E**  
 At proposed prod. zone  
**Same**

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
**Approximately 4 miles NW of Hiawatha, Utah.**

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)  
**653'**

16. NO. OF ACRES IN LEASE  
**840**

17. NO. OF ACRES ASSIGNED TO THIS WELL  
**840**

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  
**None**

19. PROPOSED DEPTH  
**15,000'**

20. ROTARY OR CABLE TOOLS  
**Rotary**

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
**10,046' Ungraded Ground**

22. APPROX. DATE WORK WILL START\*  
**June 24, 1966**

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
26"	20"	Conductor	145'	Cement to surface
17 1/2"	13-3/8"	7#	4,700'	Cement to surface
9-7/8' & 9"	7"	Various	15,000'	Sufficient to cover all pays.

This revision is for approval to change plans in that approximately 145' of 20" Conductor Pipe and approximately 4,700' of 13-3/8" Surface Casing will be run in lieu of the 60' of 20" and 2,200' of 13-3/8" originally approved.

Also for approval to change Mud Program as follows: It is now proposed to use, as much as possible, Air Mist, Foam or Aerated Mud commencing underneath the conductor casing.

BY UTAH OIL AND GAS  
CONSERVATION COMMISSION  
DATE 6-29-66 by *Paul G. Burchell*  
CHIEF PETROLEUM ENGINEER

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED *Roger S. Frazier* TITLE Dist. Operations Supt. DATE 6-24-66  
 (This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
 CONDITIONS OF APPROVAL, IF ANY:

INDUSTRIAL COMMISSION OF UTAH

RIG SAFETY INSPECTION

Name of Company HUMBLE OIL & REFINING COMPANY Date JUNE 28, 1966

Name of Drilling Contractor Loffland Brothers

Well Name and Number Hiawatha Unit #1 Rig No. 184 Field Wildcat

Section 13 Township 15 S Range 7 E

County Carbon Driller Dewitt (Bill)

Number Present 5 Toolpusher Gene York (On location)

Date of last lost-time accident Not for four years

Items causing lost-time accidents that have been corrected, or which need to be corrected.

None

Accidents or near accidents that have recently occurred on rig.

None serious

Any new employees in crew No Have instructions been given the new crew members Yes  
(All had experience)

	(Good) <u>yes</u>	(Poor) <u>no</u>
Escape Line and Slide	<u>X</u>	
Ladders, Side Rails, Steps	<u>X</u>	
Walk-Around Floor and Railing	<u>X</u>	
Engines Guarded	<u>X</u>	
Rotary Drive Guard	<u>X</u>	
All High Pressure Fittings in High Pressure Lines	<u>X</u>	Will be drilling with air ( working at 250 psi) (Not testing yet)
Fire Control Available	<u>X</u>	
General Housekeeping	<u>X</u>	
Hard Hats	<u>X</u>	
First Aid Kit	<u>X</u>	
Blowout Preventer	<u>X</u>	(Manual testing day before) Worked Okay
Cellar Clean, No Debris	<u>X</u>	
Cathead		<u>X*</u>
Safety belts available	<u>X</u>	

Unsafe practices that might cause a mishap, and recommendations made for a safe method of doing the job. None visible

Drillers Toolpushers or Drilling Superintendents reactions Very cooperative

Remarks \* Need new rope - have one ordered

Set 20" conductor pipe at 154' with sufficient cement to surface

Overall inspection was considered satisfactory

Deputy Inspector PAUL W. BURCHELL - UTAH OIL & GAS CONSERVATION COMMISSION

**CONFIDENTIAL**

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY**

Form approved.  
Budget Bureau No. 42-R356.5.

LAND OFFICE Salt Lake City  
LEASE NUMBER Atlantic U-06132-B  
UNIT Hiawatha Unit

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

State Utah County Carbon Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of June, 1966,

Agent's address P. O. Box 120 Company Humble Oil & Refining Company  
Denver, Colorado 80201 Signed ORIGINAL JOHN R. CROUCH

Phone 534-1251 Agent's title Dist. Admin. Supr.

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
<b><u>HIAWATHA UNIT</u></b>										
Sec. 13 SW-NE	15S	7E	1							TD 261'. Drying hole. Beginning to dust after circulating 11 hours.

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold;

No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

July 5, 1966

CONFIDENTIAL

MEMO FOR COMMISSIONERS

Re: Humble Oil & Refining Company  
Hiawatha Unit #1  
Sec. 13, T. 15 S., R. 7 E.,  
Carbon County, Utah

On June 28, 1966, the above named well was visited.

Upon visiting the location, the operator had just completed setting 20" conductor pipe at 154' with sufficient cement to surface and presently waiting on cement. A safety inspection was made and was considered to be satisfactory. This well is a proposed 15,000' Mississippian test and is being drilled by Loffland Brothers Drilling Company.

PAUL W. BURCHELL  
CHIEF PETROLEUM ENGINEER

PWB:kh

CC: Rodney Smith, District Engineer  
U. S. Geological Survey  
8416 Federal Building  
Salt Lake City, Utah

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

Atlantic - U-06132-B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

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 "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL  GAS WELL  OTHER

7. UNIT AGREEMENT NAME

Hiawatha Unit

2. NAME OF OPERATOR  
Humble Oil & Refining Company

8. FARM OR LEASE NAME

Hiawatha Unit

3. ADDRESS OF OPERATOR  
P. O. Box 120, Denver, Colorado 80201

9. WELL NO.

1

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface

10. FIELD AND POOL, OR WILDCAT

Wildcat

SW-NE (1980' FNL & 1973' FNL) of Section X3 13-15S-7E

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

Sec. 13-15S-7E S1M & Base

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

10,046' Ungraded Ground

12. COUNTY OR PARISH

Carbon

13. STATE

Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Setting Conductor Casing

(NOTE: Report results of multiple completion, on Well Completion or Recombination Report and Log form.)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

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.)\*

Ran 8 jts of 20" OD welded casing, set at 154' RKB and cemented with 240 sacks regular cement with 2% CaCl. Cement circulated to surface.

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

SIGNED

*Roger S. Frazier*  
Roger S. Frazier

TITLE

Dist. Operations Supt.

DATE

7-20-66

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

17 1/2 <sup>hole</sup> to 460 Bluegate

water 1700 -

13 3/8 pipe -

850 Cement bottom

1500 ft - top

1981 stage tool -

Temperature survey <sup>good cement down to</sup> 300 ft - ~~710~~

1890 temp. increased -

George Frazier - Humble

Hiawatha Well

approval was given to drill out and  
it was requested to submit a copy of a  
cement bond log to the commission

PWB

8-7-66

CONFIDENTIAL - CONFIDENTIAL

UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Form approved.  
Budget Bureau No. 42-R356.5.

LAND OFFICE Salt Lake City

LEASE NUMBER Atlantic U-06132-B

UNIT Hiawatha Unit

# LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Carbon Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of August, 1966,

Agent's address P. O. Box 120 Company Humble Oil & Refining Company  
Denver, Colorado 80201 Signed **ORIGINAL JOHN R. CROUCH**

Phone 534-1251 Agent's title Dist. Administrative Supr.

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)	
					<u>CONFIDENTIAL</u>						
<u>HIAWATHA UNIT</u>											
Sec. 13 SW-NE	15S	7E	1							TD 6,900'. Trip, Sand & Shale.	

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold;

No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

**UNITED STATES**  
**DEPARTMENT OF THE INTERIOR**  
**GEOLOGICAL SURVEY**

SUBMIT IN TRIPlicate\*  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 42-R1424.

**CONFIDENTIAL**

**CONFIDENTIAL**

5. LEASE DESIGNATION AND SERIAL NO.

**Atlantic - U-06132-B**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

**Hiawatha Unit**

8. FARM OR LEASE NAME

**Hiawatha Unit**

9. WELL NO.

**1**

10. FIELD AND POOL, OR WILDCAT

**Wildcat**

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

**Sec. 13-15S-7E SIM & Base**

12. COUNTY OR PARISH

**Carbon**

13. STATE

**Utah**

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR  
**Humble Oil & Refining Company**

3. ADDRESS OF OPERATOR  
**P. O. Box 120, Denver, Colorado 80201**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\* See also space 17 below.)  
At surface

**SW-NE (1980' FNL & 1973' FEL) of Section 13-15S-7E**

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

**10,046' Ungraded Ground**

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <b>Setting Surface Casing</b> <input checked="" type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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.)\*

**CONFIDENTIAL**

Drilled and reamed 17 1/4" hole to 4,603'. Ran 113 jts. of 13-3/8" OD 72# N-80 buttress thread casing and set at 4,594' KB. Baker differential fillup shoe at 4,954', Baker differential fillup float collar at 4,548' and Baker Model G stage cementing collar at 1,982'. Cemented in three stages. First stage at 4,594' thru shoe - 840 sacks total - 640 sacks 50-50 Pozmix with 25# Gilsomite per sack, 2% CaCl and 2% gel followed by 200 sacks neat densified cement. 400# maximum pressure, bumped plug and pressured to 750#, held OK. WOC 8 hours. Second state thru ~~run~~ stage cementer at 1,982' - 400 sacks 50-50 Pozmix as above. 200# maximum pressure. closed stage collar and pressured to 1500#, held OK. WOC 8 hours. Third stage from top of hole down 2 - 1 1/4" pipes outside of casing at 476'. Pumped in 1300 sacks and WOC 29 hours. Ran temperature survey, indicated top of cement on second stage at approximately 1,900', thrd stage from 850' to 300'. Finished filling with cement from 300' to surface with 705 sacks. Total of the three stages, 3,245 sacks. Job complete 8-6-66.

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

SIGNED J. Roy Dorrrough TITLE **District Supt.**

DATE **9-6-66**

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_

DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

**CONFIDENTIAL**

**CONFIDENTIAL**

5. LEASE DESIGNATION AND SERIAL NO.

Atlantic - U-06132-B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

**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 "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR  
Humble Oil & Refining Company

3. ADDRESS OF OPERATOR  
P. O. Box 120, Denver, Colorado 80201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\* See also space 17 below.)  
At surface  
SW NE (1980' FNL & 1973' FEL) of Section 13-15S-7E

7. UNIT AGREEMENT NAME  
Hiawatha Unit

8. FARM OR LEASE NAME  
Hiawatha Unit

9. WELL NO.  
1

10. FIELD AND POOL, OR WILDCAT  
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 13-15S-7E SIM & Base

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

10,063' KB

12. COUNTY OR PARISH

Carbon

13. STATE

Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR <input type="checkbox"/>	CHANGE PLANS <input checked="" type="checkbox"/>
(Other) <input type="checkbox"/>	CHANGE CASING PROGRAM <input checked="" type="checkbox"/>

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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.)\*

**CONFIDENTIAL**

Request approval to run a string of 10-3/4" OD intermediate casing and set at approximately 8200', or a shallower depth if deemed advisable. This string is in addition to those reported on the "Revision of Application for Permit to Drill" dated 6-24-66 and will be run to combat severe lost circulation problems.

Confirming telephone discussion of 9-28-66 between Mr. G. F. Brown and Mr. R. S. Frazier.

APPROVED BY UTAH OIL AND GAS  
CONSERVATION COMMISSION

DATE 10-4-66

By *Paul W. Burchell*  
CHIEF PETROLEUM ENGINEER

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

SIGNED

*Royal Frazier*

TITLE

Dist. Operations Supt.

DATE

9-30-66

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

Utah

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Form approved.  
Budget Bureau No. 42-R356.5.  
LAND OFFICE Salt Lake City  
LEASE NUMBER Atlantic U-06132-B  
UNIT Hiawatha Unit

CONFIDENTIAL

CONFIDENTIAL

## LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Carbon Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of September, 1966,

Agent's address P. O. Box 120 Company Humble Oil & Refining Company  
Denver, Colorado Signed John R. Crouche m.d.

Phone 534-1251 Agent's title Dist. Administrative Supr.

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
<u>CONFIDENTIAL</u>										
<u>HIAWATHA UNIT</u>										
<u>Sec. 13 SW-NE</u>	<u>15S</u>	<u>7E</u>	<u>1</u>							<u>7106', Trip, attempting to regain circulation</u>

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold;  
No runs or sales of gasoline during the month. (Write "no" where applicable.)  
NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

CONFIDENTIAL

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Form approved.  
Budget Bureau No. 42-R356.5.  
LAND OFFICE Salt Lake City  
LEASE NUMBER Atlantic 4-06132-B  
UNIT Hiawatha Unit

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

State Utah County Carbon Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of October, 1966.

Agent's address P. O. Box 120 Company Humble Oil & Refining Company  
Denver, Colorado Signed ORIGINAL JOHN R. CROUCH  
SIGNED *mll*

Phone 534-1251 Agent's title Dist. Administrative Supr.

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
<u>CONFIDENTIAL</u>										
<u>HIAWATHA UNIT</u> Sec. 13 SW-NE	<u>15S</u>	<u>7E</u>	<u>1</u>							<u>8,304', Waiting on Cement after running 10-3/4" casing.</u>

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold;

No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE\*  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 42-R1424.

**CONFIDENTIAL**

5. LEASE DESIGNATION AND SERIAL NO.

Atlantic U-06132-B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

**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 "APPLICATION FOR PERMIT—" for such proposals.)

7. UNIT AGREEMENT NAME

Hiawatha Unit

8. FARM OR LEASE NAME

Hiawatha Unit

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 13-15S-7E

12. COUNTY OR PARISH

Carbon

13. STATE

Utah

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR  
Humble Oil & Refining Company

3. ADDRESS OF OPERATOR  
P. O. Box 120, Denver, Colorado

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface

SW-NE (1930' FNL & 1973' FEL) of Section 13-15S-7E

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

10,046' Ungraded Ground

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Setting Intermediate Casing

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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.)\*

**CONFIDENTIAL**

Drilled 12" hole to 8304'. Ran 10-3/4" OD casing as follows: 1,004' 55# P-110; 2,908' 55# N-80 and 4,253' 51# N-80. Set at 8,283' and cemented with 350 sacks 50-50 Pozmix Cement. Job complete 10-31-66.

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

SIGNED

*[Signature]*

TITLE Dist. Operations Supt.

DATE 11-10-66

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

CONFIDENTIAL

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Form approved.  
Budget Bureau No. 42-R356.5.

LAND OFFICE Salt Lake City  
LEASE NUMBER Atlantic U-06132-B  
UNIT Hiawatha Unit

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Carbon Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of November, 1966,

Agent's address P. O. Box 120 Company Humble Oil & Refining Company  
Denver, Colorado 80201 Signed ORIGINAL JOHN R. CROUCH  
SIGNED

Phone 534-1251 Agent's title Dist. Administrative Supr.

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
					<u>CONFIDENTIAL</u>					
<u>HIAWATHA UNIT</u>										
<u>Sec. 13</u> <u>SW-NE</u>	<u>15S</u>	<u>7E</u>	<u>1</u>							<u>TD 10,016' Drilling.</u>

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold;

No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

CONFIDENTIAL

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

*Utah*

Form approved.  
Budget Bureau No. 42-R356.5.  
**Salt Lake City**

LAND OFFICE \_\_\_\_\_  
LEASE NUMBER **Atlantic U-06132-B**  
UNIT **Hiawatha Unit**

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Carbon Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of December, 1966,

Agent's address P. O. Box 120 Company Humble Oil & Refining Company  
Denver, Colorado 80201 Signed ORIGINAL JOHN R. CROUCH  
SIGNED

Phone 534-1251 Agent's title Dist. Administrative Supr.

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
<u>CONFIDENTIAL</u>										
<u>HIAWATHA UNIT</u>										
<u>Sec. 13</u> <u>SW-NE</u>	<u>15S</u>	<u>7E</u>	<u>1</u>							<u>TD 11,613' drilling.</u>

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Form approved.  
Budget Bureau No. 42-R356.5.

LAND OFFICE Salt Lake City  
LEASE NUMBER Atlantic U-06132-B  
UNIT Hiawatha Unit

CONFIDENTIAL

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

State Utah County Carbon Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of January, 1967,

Agent's address P. O. Box 120 Company Humble Oil & Refining Company  
Denver, Colorado

Phone 534-1251 Signed \_\_\_\_\_ Agent's title Dist. Administrative Supr.

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
<b>CONFIDENTIAL</b>										
<u>HIAWATHA UNIT</u>										
<u>Sec. 13 SW-NE</u>	<u>15S</u>	<u>7E</u>	<u>1</u>							<u>TD 12,036' Waiting on cement after running plug to combat lost circulation.</u>

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Form approved.  
Budget Bureau No. 42-R356.5.  
LAND OFFICE Salt Lake City  
LEASE NUMBER Atlantic U-06132-B  
UNIT Hiawatha Unit

CONFIDENTIAL

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

State Utah County Carbon Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of February, 1967,

Agent's address P. O. Box 120 Company Humble Oil & Refining Company  
Denver, Colorado 80201 Signed ORIGINAL JOHN R. CROUCH  
SIGNED

Phone 534-1251 Agent's title Dist. Administrative Supr.

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
<u>CONFIDENTIAL</u>										
<u>HIAWATHA UNIT</u>										
<u>Sec. 13 SW-NE</u>	<u>15S</u>	<u>7E</u>	<u>1</u>							<u>TD - 12,101'. Shut down operations on 8-10-67. Will resume operations after Spring runoff, probably about the middle of June, 1967.</u>

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold;

No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY**

SUBMIT IN THIS MANNER\*  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.  
**Atlantic U-06132-B**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

**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 "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR  
**Humble Oil & Refining Company**

3. ADDRESS OF OPERATOR  
**P. O. Box 120, Denver, Colorado 80201**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface

**SW NE (1980' FNL & 1973' FEL) of Section 13-15S-7E**

7. UNIT AGREEMENT NAME  
**Hiawatha Unit**

8. FARM OR LEASE NAME  
**Hiawatha Unit**

9. WELL NO.  
**1**

10. FIELD AND POOL, OR WILDCAT  
**Wildcat**

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
**Sec. 13-15S-7E**

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
**10,063' KB**

12. COUNTY OR PARISH  
**Carbon**

13. STATE  
**Utah**

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO :

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <b>Suspend Operations</b>	<input checked="" type="checkbox"/>

SUBSEQUENT REPORT OF :

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) _____	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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.)\*

Present total depth is 12,401'. We have been plagued with an unusual amount of heavy snow and expense for snow removal and winter operations. Therefore, in view of this, it has been decided to cease operations for the remainder of the winter and spring runoffs. It is expected that operations will cease about February 10, 1967. It is now anticipated that operations will not be resumed before the middle of June, 1967.

The above confirms conversation between Mr. Rodney Smith and Mr. R. S. Frazier on February 7, 1967.

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

SIGNED Original signed by: Roger S. Frazier TITLE Dist. Operations Supt. DATE 2-8-67

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

**CONFIDENTIAL**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Form approved.  
Budget Bureau No. 42-R356.5.  
LAND OFFICE Salt Lake City  
LEASE NUMBER Atlantic U-06132-B  
UNIT Hiawatha Unit

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

State Utah County Carbon Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of March, 1967,

Agent's address P. O. Box 120 Company Humble Oil & Refining Company  
Denver, Colorado 80201

Phone 534-1251 Signed ORIGINAL JOHN R. CROUCH  
Agent's title Dist. Administrative Supr.

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
<b>CONFIDENTIAL</b>										
<u>HIAWATHA UNIT</u>										
<u>Sec. 13 SW-NE</u>	<u>15S</u>	<u>7E</u>	<u>1</u>							<u>TD - 12,101'. Shut Down operations on 2-10-67. Will resume operations after Spring runoff, probably about the middle of June, 1967.</u>

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold;

No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

**CONFIDENTIAL**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Form approved.  
Budget Bureau No. 42-R356.5.

LAND OFFICE Salt Lake City  
LEASE NUMBER Atlantic U-06132-B  
UNIT Hiawatha Unit

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

State Utah County Carbon Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of April, 1967,

Agent's address P. O. Box 120, Company Humble Oil & Refining Company  
Denver, Colorado 80201 Signed **ORIGINAL JOHN R. CROUCH**  
SIGNED

Phone 534-1251 Agent's title Dist. Administrative Supr.

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
<b>HIAWATHA UNIT</b>										
Sec. 13 SW NE	15S	7E	1							TD - 12,101'. Shut down operations on 2-10-67. Will resume operations after Spring runoff, probably about the middle of June, 1967.

**CONFIDENTIAL**

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold;

No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

**CONFIDENTIAL**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Form approved.  
Budget Bureau No. 42-R356.5.

LAND OFFICE Salt Lake City  
LEASE NUMBER Atlantic U-06132-B  
UNIT Hiawatha Unit

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

State Utah County Carbon Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of May, 1967.

Agent's address P. O. Box 120 Company Humble Oil & Refining Company  
Denver, Colorado 80201 Signed **ORIGINAL SIGNED** JOHN R. CROUCH *J.R.C.*

Phone 534-1251 Agent's title Dist. Administrative Supr.

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
<b>HIAWATHA UNIT</b>										
Sec. 13 SW NE	15S	7E	1							TD - 12,101'. Shut down operations on 2-10-67. Will resume operations after Spring runoff, probably about the middle of June, 1967

**CONFIDENTIAL**

NOTE.—There were NO runs or sales of oil; NO M cu. ft. of gas sold; NO runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City  
LEASE NUMBER Atlantic U-06132-B  
UNIT Hiawatha Unit

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

State Utah County Carbon Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of June, 19 67,

Agent's address P. O. Box 120 Company Humble Oil & Refining Company  
Denver, Colorado 80201 Signed ORIGINAL JOHN R. CROUCH  
SIGNED

Phone 534-1251 Agent's title Dist. Administrative Supr.

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
<b>HIAWATHA UNIT</b>										
Sec. 13 SW NE	158	7E	1							TD - 12,101'. Shut down operations on 2-10-67. Awaiting results of Tenneco Clear Creek Well before resuming operations.
<b>OLD GENTRY MOUNTAIN UNIT #1-A - Lease - Utah - 081658</b>										
Sec. 11 E 1/2 NE 1/4	158	7E	1-A							Shut In 2-10-67. Was used as water supply well for drilling Hiawatha Unit #1.

**CONFIDENTIAL**

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold;

No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

**UNITED STATES**  
**DEPARTMENT OF THE INTERIOR**  
**GEOLOGICAL SURVEY**

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

5. LEASE DESIGNATION AND SERIAL NO.

**Utah - 081658**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

-

7. UNIT AGREEMENT NAME

**Hiawatha Unit**

8. FARM OR LEASE NAME

**Hiawatha Unit**

9. WELL NO.

**1-A**

10. FIELD AND POOL, OR WILDCAT

**Wildcat**

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

**Sec. 11-15S-7E SIM**

12. COUNTY OR PARISH 13. STATE

**Emery**

**Utah**

1.

OIL WELL  GAS WELL  OTHER **Dry Hole**

2. NAME OF OPERATOR

**Humble Oil & Refining Company**

3. ADDRESS OF OPERATOR

**P. O. Box 120, Denver, Colorado 80201**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\* See also space 17 below.)  
At surface

**1320' FNL & 1190' FEL of Section 11-15S-7E**

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

**9710' Gr.**

16.

**Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO :

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF :

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(Other) **Sub. Report of Re-entering**  **XX**

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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.)\*

**Old Gentry Mountain Unit #1-A**

Moved in well servicing unit on 9-8-66 and cleaned out to 4,000'. Perforated 3533-80' and 3598-3628' with 2 SPF. Acidized with 1,500 gallons regular mud acid w/15% hydrochloric and 3% hydrofluoric acid. Pump tested at a rate of 708 barrels of water per day. Layed line from well to Hiawatha drilling well and started using for drilling purposes on 10-8-66. Used water from well until 2-10-67, When operations were suspended.

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

SIGNED **Original signed by: Roger S. Frazier**

TITLE **Dist. Operations Supt.**

DATE **6-13-67**

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION  
Salt Lake City 14, Utah

**REPORT OF OPERATIONS AND WELL STATUS REPORT**

State Utah County Emery Field or Lease Wildcat - Dry Hole

The following is a correct report of operations and production (including drilling and producing wells) for Sept., 1966 thru May....., 19.67..

Agent's address P. O. Box 120 Company Humble Oil & Refining Company  
Denver, Colorado 80201 Signed *Robert Hazen*  
 Phone 534-1251 Agent's title Dist. Operations Supt.

State Lease No. .... Federal Lease No. 081658 Indian Lease No. .... Fee & Pat.

Sec. & 1/4 of 1/4	Twp.	Range	Well No.	*Status	Oil Bbls.	Water Bbls.	Gas MCF's	REMARKS (If drilling, Depth; if shut down, Cause; Date & Results of Water Shut-Off Test; Contents of Gas; and Gas-Oil Ratio Test)	
								No. of Days Produced	
Sec. 11 E 1/2 NE 1/4	15S	7E	1-A	SI	0	*	0	*	Used as a water supply well for the drilling of Hiawatha Unit #1 from 10-8-66 thru 2-10-67. See attached Sundry Notice.

Note: There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month.

NOTE: Report on this form as provided for in Rule C-22. (See back of form.)

FILE IN DUPLICATE

\*STATUS: F-Flowing P-Pumping GL-Gas Lift  
 SI-Shut In D-Dead  
 GI-Gas Injection TA-Temp. Aban.  
 WI-Water Injection

ENCO

# HUMBLE OIL & REFINING COMPANY

DENVER, COLORADO 80201

DENVER DISTRICT

July 28, 1967

POST OFFICE BOX 120

Mr. J. R. Schwabrow  
Regional Oil and Gas Supervisor  
United States Geological Survey  
P. O. Box 400  
Casper, Wyoming 82601

Re: Hiawatha Unit Agreement  
Counties of Carbon and Emery,  
State of Utah  
No. 14-08-0001-8809

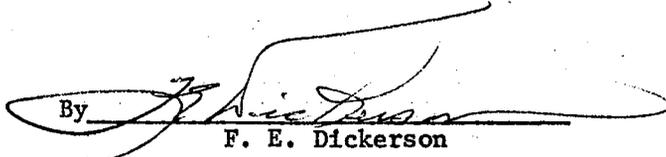
Dear Sir:

We are enclosing 6 copies of a Designation of Successor Unit Operator, which has been executed by Humble Oil & Refining Company and Atlantic Richfield Company designating Atlantic Richfield Company as Unit Operator under the Unit Agreement for the Hiawatha Unit Area. The Designation has also been accepted by Atlantic Richfield Company as successor Unit Operator.

We understand that the Designation of Successor Unit Operator is effective when filed in your office and that nothing further is necessary for Atlantic Richfield to assume operations.

Yours very truly,

HUMBLE OIL & REFINING COMPANY

By 

F. E. Dickerson

FED:js

Enclosures

See Attached Mailing List for carbon copies

P.S. Atlantic Richfield and Humble Oil & Refining Company together own the working interest in 32,426.92 acres committed to the Unit Agreement, which is approximately 97.89% of the committed working interest, which is more than sufficient to designate a successor Unit Operator.

Atlantic Richfield Company as Unit Operator plans to immediately resume operations for drilling the Hiawatha Unit Well No. 1, located in the SW $\frac{1}{4}$ NE $\frac{1}{4}$  of Section 13-15S-7E.

F.E.D.

A M E R I C A ' S L E A D I N G E N E R G Y C O M P A N Y

MAILING LIST

Page 2

July 28, 1967

cc: Mr. Rodney A. Smith w/encl.  
District Engineer  
United States Geological Survey  
8416 Federal Building  
125 South State Street  
Salt Lake City, Utah 84111

Mr. John Birchell no encl. ✓  
State Oil and Gas Commission  
348 East South Temple  
Suite 301  
Salt Lake City, Utah 84111

Utah State Land Board w/ 2 encl.  
State Capitol  
Salt Lake City, Utah

Atlantic Richfield Company w/ 2 encl.  
Suite 1500 Security Life Building  
Denver, Colorado 80202

Phillips Petroleum Company w/encl. Attn: R. B. Edmundson  
1300 Security Life Building  
Denver, Colorado 80202

Mr. George P. Caulkins, Jr. w/encl.  
1130 First National Bank Building  
Denver, Colorado

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Form approved.  
Budget Bureau No. 42-R356.5.  
LAND OFFICE Salt Lake City  
LEASE NUMBER Atlantic U-06132-B  
UNIT Hiawatha Unit

## LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Carbon Field Wildcat  
 The following is a correct report of operations and production (including drilling and producing wells) for the month of July, 1967,  
 Agent's address P. O. Box 120 Company Humble Oil & Refining Company  
Denver, Colorado 80201 Signed **ORIGINAL JOHN R. CROUCH**  
 Phone 534-1251 Agent's title Dist. Administrative Supr.

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
<b>HIAWATHA UNIT</b>										
SW NE Sec. 13	15S	7E	1							TD - 12,101'. Atlantic Richfield Company assumed operations as of 7-28-67.
<b>OLD GENTRY MOUNTAIN UNIT #1-A - Lease - Utah - 081658</b>										
E 1/2 NE 1/4 Sec. 11	15S	7E	1-A							Water Supply Well - Atlantic Richfield company also assumed operation to continue drilling of Hiawatha Unit #1.

**CONFIDENTIAL**

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold;  
No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

INSTRUCTIONS: Prepare and submit the INITIAL REPORT on the first Wednesday after a well is spudded or workover operations are started. Daily work prior to spudding should be summarized on the form giving inclusive dates only.

DAILY WELL HISTORY-INITIAL REPORT

District 84-MCD County or Parish Carbon State Utah

Field Centry Mountain Area Lease or Unit Hinatha Unit Well No. 1

Auth. or W.O. No. XXXX 86-7167 Title Drill

Operator Humble Oil & Refining Company TARCO'S W.I. 25%  
 Spudded or W.O. Begun Spudded Date 6/23/66 Hour \_\_\_\_\_ Prior Status if a W. O. \_\_\_\_\_

Date & Depth as of 8:00 A.M. Complete Record for each Day Reported

1980' FHL, 1973' FEL Sec. 13, Twp. 15S, Rge 7E Carbon County, Utah  
 Loffland Bros. Contractor

6/24/66 160'(160') Running Spudded 6/23/66 Lost returns @ 29' Regained returns & drilled to 160'

12/30/66 11,561'(27') 10 3/4" at 8283' LOG 4606'

2/13/67 12,101'TD Shut Down. Suspended operations for winter

7/31/67 12,101'TD Humble suspended drlg operations for the winter on 2/11/67 last casing set; 10 3/4" OD @ 8,283 RB. Drilled 9 5/8" hole to 12,101. Temporarily suspended w/ 140 sz cement plug on bottom.

Atlantic Richfield proposes to resume drlg operations & drill 9 5/8" hole to approximate 14,400' or thru the Coconino formation and set 7 5/8" OD liner with top at ± 8000'. This test is expected to be drilled thru the Desert-Missippian and into the Madison at approximately 15,600', evaluating all shows encountered.

NOTE: ABOVE TAKEN FROM SUNDRY NOTICE & REPORT TO U .S. G. S. requesting resuming of operations after winter shutdown

Distribution:  
 Orig.: Drilling Section - Dallas  
 cc: - District Office  
 Engineering Division - (720)  
 Co-Owner(s) - As Appropriate  
 Regional Office, Well Record File

The Above is Correct:

SIGNATURE

DATE 8/10/67

TITLE: District Drilling & Production Supervisor

**INSTRUCTIONS:** This form is used during drilling or workover operations. If testing, coring, or perforating, show formation name in describing work performed. Number all drill stem tests sequentially. Attach description of all cores. Work performed by Producing Section will be reported on "INTERIM" sheets until final completion. Report official or representative test on "FINAL" form. (1) Submit "INTERIM" sheets when filled out but not less frequently than every 30 days, or (2) on Wednesday of the week in which oil string is set. Submit weekly for workovers and following setting of oil string until completion.

**DAILY WELL HISTORY - INTERIM**

District W-400 County or Parish CAYLOR State UTAH

Field CENTRAL HORMAIN Lease or Unit HIAMATHA UNIT Well No. 1

Date & Depth at 8:00 A.M. Complete Record for each Day While Drilling or Workover in Progress

8/2/57 12,101' Conditioning hole. Resumed operations at 8 a m 8/2/57.

8/3/57 " (10 3/4" @ 8283') OIH w/DP to condition hole @ 6400'. Mud Sp-1p-20, 8.7#, 58 sec PV 22, Y6, gel 0-2, pH 12, FC 2/32", solids 3%, oil 8%, 5# per bbl. 100%.

8/4/57 " OO to 9277'. PCH set DP @ 4450' and tested BOP's for 30 mins. Oil belly stop cock leaking and will be replaced. Mud 8.6#, 55 sec, PV 23, Sp 9, gel 300, Ph 11, 2/32", solids 2.5%, sand nil, oil 5% LCM 11# per bbl.

8/7/57 12,109' (8') OIH w/new bit and reamer. Mud 8.7#, 45 sec.

8/8/57 Dry drl. regained circ. ran drilco reamer, jars an 6-8" DC. Drld cmnt 12,004-32' reamed out gauge hole 12,032', 12,069' and lost circ. Dry drld w/3 BWR. 12,069', 12,109'. Began drlg new hole at 5 AM 8/8/57.

8/9/57 12,160' (40') Dry drlg. Using wtr & gel. Dry drld to 12,118' spotted lost circ. plug. Pulled out of hole. LD 8" DC's. Picked up 7" collars (collar wt. 52,000#). Drlg 80 RPM w/50,000# on bit, pumps 3 bbls wtr per min. Fine distribution 1/2 hr dlg cmnt. 6 1/2 hrs. drlg cmnt, 1 1/4 hrs spotting LC plug, 6 3/4 hrs trip 7 1/2 hrs changing DC. 1 hr attempting to circ. 3/4 hr washing to bottom, 24 hrs total. Formation drlg rough as if fractured at rates 8' to 14' per hr.

8/10/57 12,242' (82') Drlg w wtr. No returns, made trip LD reamer, installed boot basket, bit #3 AR 94' in 11 3/4 hrs. ran bit #4 AR rig time distribution 12 1/4 hrs drlg, 9.5 hrs trip and LD reamer 1 1/4 hrs ream 100ft. to bottom - 24 hrs company time.

8/11/57 12,288' (46') Drlg w/no returns. Reamed 55' w/big #4 AR. Reran bit #1 w/reamer & basket as bit #5 AR. SHH 3/4" @ 12,260'. PL in hole 2700' from surface. Rig time distribution: 10.5 hrs, Sur. 1 hr, trip 8.25, LCM & Barite Fill 1 hr. Cut drlg line 1 hr and 55' out of ga. hole 2.25.

8/12/57 12,323' (35') Drlg w/wtr. Conditioned mud @ 7500'. Lost 450 bbls down hole. Bit #5 PCH (reran bit #1). Rig time distribution: 10 1/4 hrs drlg. 8 3/4 trip & replace belly cock 1/2 hr spot lost circ plug. 3 1/2 mixing mud 1 reaming = 24 hrs.

8/13/57 12,340' (17') WOC & mixing mud. Drld to 12,340' while making connection broke bottom off Varco slips losing 2 segments & retainer in hole. Jarred by segment. PCH ran in hole & ended PL 2790. Set DP @ 11,794'. Mixed & spotted by balance method 1200 cu. ft. slurry (450 sx cmnt, 2# gel + 1/2# floccs per sx) PCH. Rig time distribution: 7 3/4 drlg, 3/4 freeing DP, 8 1/2 trip 3 mix mud & waiting on Halliburton, 1 1/4 spot cmnt 2 3/4 PCH = 24 hrs.

8/14 12,340' (0') Drlg hard cmnt @ 11,745'. Conditioned mud to 8300'. "reconditioned 2 intervals to top of cmnt found @ 11,703'. Hole filled w/150 bbls indicating PL after cementing be approx. 1600' from surface after cmntg. (2790' before cmntg) Slurry 1200 cu ft = approx. 2376' fill up in open hole. Indicating loss of formation of 875 cu ft of slurry. Pre-treating mud for cmnt contamination. Rig Time distribution: 3/4 hr PCH 8 1/2 hr mix mud & WOC, 2 1/4 hr OIH to 4000' filled open hole 150 bbl. 11 hrs cond. mud & open hole, 1 1/2 hr drlg cmnt = 24 hrs.

Distribution:  
 Orig.: Drilling Section - Dallas  
 cc:- District Office  
 Engineering Division - (720)  
 Co-Owner(s) - As Appropriate  
 Regional Office, Well Record File

The Above is Correct:  
 SIGNATURE \_\_\_\_\_ DATE 8/15/57  
 District Drlg. and Production Supervisor

INDUSTRIAL COMMISSION OF UTAH

RIG SAFETY INSPECTION

Name of Company Atlantic Richfield Company Date August 17, 1967

Name of Drilling Contractor Loffland Brothers Drilling Co.

Well Name and Number Hiawatha Unit #1 Rig No. 184 Field Wildcat

Section 13 Township 15 S Range 7 E

County Carbon Driller Bill Dewitt

Number Present five Toolpusher Jess York

Any lost-time accidents while on location None

Items causing lost-time accidents that have been corrected, or which need to be corrected.

None

Any new employees in crew No Have instructions been given the new crew members Yes  
(All had experience)

	(Good) <u>yes</u>	(Poor) <u>no</u>
Escape Line and Slide-----	<u>X</u>	_____
Ladders, Side Rails, Steps-----	<u>X</u>	_____
Walk-Around Floor and Railing-----	<u>X</u>	_____
Engines Guarded-----	<u>X</u>	_____
Rotary Drive Guard-----	<u>X</u>	_____
Fire Control Available-----	<u>X</u>	_____
General Housekeeping-----	<u>X</u>	_____
Hard Hats-----	<u>X</u>	_____
First Aid Kit-----	<u>X</u>	_____
Blowout Preventer Installed-----	<u>X</u> *	_____
Cellar clean, No debris-----	<u>X</u>	_____
Cathead-----	<u>X</u>	_____
Safety belts available-----	<u>X</u>	_____

Unsafe practices that might cause a mishap, and recommendations made for a safe method of doing the job. None visible.

Drillers, Toolpushers or Drilling Superintendents reactions Very cooperative

Remarks \* Drilling at 12,438' - Pipe and blind rams tested every day. Pressured up at 2000 psi on August 6, 1967, and held OK. NOTE: Overall inspection considered satisfactory.

Deputy Inspector PAUL W. BURCHELL - DIVISION OF OIL & GAS CONSERVATION

FORM OGC-8-X

FILE IN QUADRUPLICATE

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL & GAS CONSERVATION  
1588 West North Temple

SALT LAKE CITY, UTAH 84111

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number           HIAWATHA UNIT #1          

Operator           ATLANTIC RICHFIELD COMPANY           Address           BOX 520, CASPER, WYO.           Phone           237-2525          

Contractor           LOFFLAND BROS.           Address           CASPER, WYOMING           Phone           237-2536          

Location           SW 1/4 NE 1/4 Sec. 13           T.           15           ~~XX~~R.           7           ~~XX~~E           CARBON           County, Utah

Water Sands:

<u>Depth</u>		<u>Volume</u>	<u>Quality</u>
From	To	Flow Rate or Head	Fresh or Salty
1.	<u>          NONE          </u>		
2.	<u>                          </u>		
3.	<u>                          </u>		
4.	<u>                          </u>		
5.	<u>                          </u>		

(Continued on reverse side if necessary)

Formation Tops:

Remarks:

- NOTE:
- (a) Upon diminishing supply forms, please inform this office,
  - (b) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure, (See back of form)
  - (c) If a water analysis has been made of the above reported zone, please forward a copy along with this form.

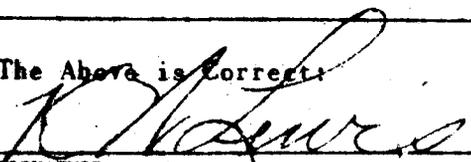
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DAILY WELL HISTORY - INTERIM

District EM-MDD County or Parish CARBON State UTAH  
 Field GENTRY MOUNTAIN AREA Lease or Unit HIAMATHA UNIT Well No. 1

Date & Depth at 8:00 A.M.	Complete Record for each Day While Drilling or Workover in Progress
8/15/67 12,372' (32')	Drlg w/wtr. No returns @ 5' per hr. Mud in hole 8.7#, 38 sec, PV 10, Yp 2, Gel 0-1 wtr loss 10 cc's, 2/32" F.C. 40,000-50,000# on bit @ 45 RPM w/ht 3 1/2 BWPM. Drlg hard cut to 11,790'. Lost partial returns. Lost full returns @ 11,885'. Drlg cont. to 12,245'. Soft or no cut. 12,245-12,340'. Rig time distribution: 18 1/2 hrs. drlg cont. w/full returns, 5 1/2 hrs. drlg without returns = 24 hrs.
8/16/67 12,417' (45')	Drlg w/wtr, no returns. Pulled Bit #6 @ 12,390'. Bit #7 drlg @ rate of 4-6' per hr. Junk Basket on Bit #6 contained hard, red siltstone to shale laminated w/some white siltstone. Rig time distribution: 9 1/2 hrs. drlg, 10 hrs. trip, 1 hr. out drlg line, 2 3/4 hrs. sig, 3/4 hrs. LCM mixing = 24 hrs. Bit #6 = 1/16" under gauge. Reamer not run last 3 runs.
8/17/67 12,438' (21')	Repairing hydraulic clutch. Drlg w/wtr no returns. POH 12, 432Bt. Sptd high wtr loss LCM slug on bottom. Pulled to 8200'. Pump 150 bbls drlg mud. Bit #7 drld 48' in 11 1/2 hrs. 1/16" under gauge. Junk basket sample: Red to orange, vig. hd w/ trace of red siltstone. Rig Time distribution: 6 1/2 hrs drlg, 5 1/4 hrs trip, 3/4 hrs mud, 11 1/2 hrs repairs = 24 hrs
8/18/67 12,495' (57')	Trip Drlg w/wtr & no returns. Bit #8 (B37) drld @ rates 4.5' to 8' per hr. Rig time distribution: 12 hrs & 15 mins drlg, 5 3/4 hrs trip 2 hrs 5 mins rig repair, 3 hrs sig = 24 hrs.
8/21/67 12,630' (130')	Making trip.
8/22/67 12,630'(0')	GIN w/wtra.
8/23/67 12,630'	No report.
8/24/67 12,630'	EU air compressor WBG
8/25/67 12,630'	EU air compressor. Cemented from 11,500' to TD w/600 sks cement plug 2% gel.
8/28/67 12,630'	Installing air drlg equipment. CO to 11,140'.
8/29/67 "	No report.
8/30/67 " TD	Repairing swivel.
8/31/67 "	Drlg hard cut, 11,800'. Drlg w/600 cu.ft of air per min @ 60# & 7 bbls mud per min. @ 1200# by compressive drlg method. Drlg @ rate of 30 ft per hr. 10,000# wt @ 45 RPM. Mud 8.8#, 34 sec, vis 24, YP-8, Gel 1-2, PH 12.5 wtr loss 5.8 cc, 2/32" filter, 2% oil, 1# per bbl LCM chloride 8000 pts. per min.
9/1/67 "	Resume drlg @ 3 am 8/31/67. Drlg hard cut 11,817 by Piggyback Air system w/full returns, 7 RPM thru bit. 600 cubic air per min thru concourse area. Drlg hard cut from 11, 100'.
9/5/67 "	Cleaning out.
9/6/67 "	CO to 12,500' & repairing swivel.
9/7/67 12,653' (23')	Drlg. Mud 8.8#, 44 sec, PV 18, Yp 4, Gel 0-3, PH 12.5, WL 6.2cc, FC 2/32", C1 700 RPM, 2% Fovolene. Repaired swivel CO to 12,630' resumed drlg @ rate of 3'-4' per hr. Using 1400 CFM air @ 900# & 6.1 bbl mud per min. @ 600#. Drlg 38 RPM w/ 45,000# on bit.

Distribution:  
 Orig.: Drilling Section - Dallas  
 cc:- District Office  
 Engineering Division - (720)  
 Co-Owner(s) - As Appropriate  
 Regional Office, Well Record File

The Above is Correct:  
  
 SIGNATURE \_\_\_\_\_ DATE 9/7/67  
 District Drilling & Production Supervisor  
 TITLE

**INSTRUCTIONS:** This form is used during drilling or workover operations. If testing, coring, or perforating, show formation name in describing work performed. Number all drill stem tests sequentially. Attach description of all cores. Work performed by Producing Section will be reported on "INTERIM" sheets until final completion. Report official or representative test on "FINAL" form. (1) Submit "INTERIM" sheets when filled out but not less frequently than every 30 days, or (2) on Wednesday of the week in which oil string is set. Submit weekly for workovers and following setting of oil string until completion.

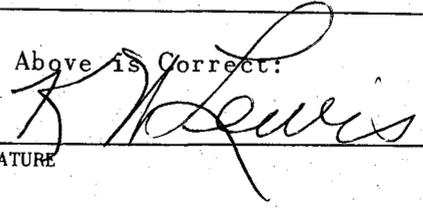
**DAILY WELL HISTORY - INTERIM**

District DM-MC County or Parish CARBON State UTAH

Field CENTRY MOUNTAIN AREA Lease or Unit HEALTHY UNIT Well No. 1

Date & Depth at 8:00 A.M.	Complete Record for each Day While Drilling or Workover in Progress
9/8/67 12,555' (2')	Drlg w/air-mud system. Drld to 12,670' and strapped out of hole at 12,670' - 12,648' - Corrected to 12,648'. Changed out 30 field rubbers on concentric DR. Drlg w/1350 CFM air and 5 3/4 BHM mud. Air press 1000#. Mud 900#.
9/9/67 12,828' (173')	Trip. Drld w/1400 cu ft. air per min. & 6 BHM. Bit #16 drld 128' (12,720-12,838') @ 4' per hr. Mud 8.8%, 62 sec, PV-29, YF 9, Gels 2-1, Ph 12.3, WL 9.2, FC 2/32", Pal .8, Cl 700 ppm, Sol 5, Snd 1/8", LOR Trace, oil 2%. SHT 3' @ 12,710'.
9/12/67 12,912' (84')	Drilling red shales and siltstones. Mud 8.9%, 54 sec, PV 26, YF 4, Gels 1.5 to 4, Ph 12, WL 7.8 ccs, 2/32" FC, Pal .8, Cal 100 ppm, Solids 1%, sand 5/8%, oil 2 1/2%. Bit #17 has drld 84' in 15 1/2 hrs. & still cutting 5' per hr.
9/13/67 12,955' (622')	GPH w/bit #18. Bit #17 drilled 127' 26 hours. Picked up 3 additional 5" drill collars.
9/14/67 12,955' (0')	Replacing mud, separator & flow line. Ran bit #18 in hole to 12,955'. started air compressor and separator and flow line failed due to erosion from abrasive flow.
9/15/67 13,024' (39')	Drilling. Mud 8.7%, 47 sec, PV 14, YF 5, Gel 2-8, WL 8.4. Aerating 41-1 thru jet sub @ 3700'. Running Bit #19.
9/18/67 13,103' (79')	Circ. for trip. No torque-Begin torquing @ 3 am Cleaned up. Jet sub 3477'. Air pres 850# @ 1800 cu. ft. 36 SPM, 6.4 RPM (275 GPM) 750-800'.
9/19/67 13,103' (0')	POH. LD 3-8" DC. Replaced seals. Removed jt. of concor pipe failing to seal on inner tube. Ran new bit. Circ. around and prep to drill w/no apparent leaks between air & wtr system.
9/20/67 13,196' (93')	POH. 8.9# mud, 54 sec, PV 23, YF 4, Gel 1-3, Ph 12-5, WL 6-4, FC 2/32, PL 1.6, Cl 1400, Cal 80, Sol. 5%, sand 1/2, oil 5%.
9/21/67 13,200' (4')	Made 4' last 24 hrs. Formation same. Snd & shales same. Straight hole test 1 1/4 @ 13,190'. They are now w/bit #21.
9/22/67 13,290' (90')	Drlg. Air Vol. 1300 CFM @ 800 PSI, 58 rpm, 55,000# Circ hole clean 1 1/2 hrs due to high torque @ 13,290'. Sample @ 13,290' 30-40 gy gr sand. 70-60% red shale.
9/25/67 13,360' (70')	Drlg, mud, line, sand, shale. Bit #23 Reed YC2J in hole @ 13,341'. Mud 285 gal per min. @ 850#, air 13 cc per min @ 800#. Mud 8.9%, 60 sec. 4.8 wtr. loss
9/26/67 13,410' (50')	Making short trip in hole. Mud 8.8%, 50 sec, PV 17, YF 4, Gel 1-4, Ph 12.0, W.L. 6.0
9/27/67 13,422' (12')	Drlg w/Bit #24. Reed YC2J. Bit #23, Reed YC2J. Drld 71' 38 hrs. Mud 8.8%, 50 sec PV 17, YF 4, Gel 1-4, Ph 12, WL 6.0 ccs, FC 2/32", Pal 1.6 ch 1400, Cal. 120, Sol 3.5, Snd 1/16, Oil 6%, Drlg 40 RPM w/50,000#.
9/28/67 13,477' (55')	Drlg shale & dolo. shale, Bit #24 in @ 13,410. 38 @ 55,000. Air 850# @ 1700 CFM. Mud 290 CFM 1000#, air mud ratio 40-1. Mud 8.8%, 48 sec, 5% oil, PV 18, YF 4, gels 2-5, Ph 12, WL 5.0, 2/32", PV 2.0 Cl 1800, Ca 80, sold. d.5, sand none.

Distribution:  
 Orig.: Drilling Section - Dallas  
 cc:- District Office  
 Engineering Division - (720)  
 Co-Owner(s) - As Appropriate  
 Regional Office, Well Record File

The Above is Correct:  
  
 SIGNATURE \_\_\_\_\_ DATE 9-29-67  
 TITLE District Drilling and Production Supervisor

**INSTRUCTIONS:** This form is used during drilling or workover operations. If testing, coring, or perforating, show formation name in describing work performed. Number all drill stem tests sequentially. Attach description of all cores. Work performed by Producing Section will be reported on "INTERIM" sheets until final completion. Report official or representative test on "FINAL" form. (1) Submit "INTERIM" sheets when filled out but not less frequently than every 30 days, or (2) on Wednesday of the week in which oil string is set. Submit weekly for workovers and following setting of oil string until completion.

**DAILY WELL HISTORY - INTERIM**

District W-4C County or Parish CARBON State UTAH

Field GENTRY MOUNTAIN AREA Lease or Unit HIAMATHA UNIT Well No. 1

Date & Depth at 8:00 A.M. Complete Record for each Day While Drilling or Workover in Progress

9/29/67 13,506' (29') Drilling bit #25 YHC.

10/2/67 13,655' (149') GIN w/bit #27. Drlg. 90% brn shale and sandstone.

10/3/67 13,701' (146') Drilling shale and sandstone.

10/4/67 13,724' (23') Cherty, Dolo., lag samples back to 13,700-710'. Made trip @ 13,733', GO bridge 13,378'. Reamed back to bottom. SHF 1 1/4" @ 13,720', Mud 9#, 43 sec, PV 15, YF 4, Gel 1-3, PH 12, WL 5.8, 2/32 PF 1.3, Cl 1800, Ca 80, Sol. 5% sand-nil, oil 4%.

10/5/67 13,740' (16') Tripping GIN w/bit #29 YHC.

10/6/67 13,803' (63') tripping, PCH.

10/9/67 13,953' (150') Drlg. Laid 3-8" collars, reduce wt. of drill string. Bit #30 in hole @ 13,930'. Mud 8.9, 60 sec, PV 26, YF 8, gel 2-6, PH 11.5, WL 6.4, 2/32 PF 1.0, cl. 1500, Ca 80, sol 4 1/4, and 1/2, oil 2%.

10/10/67 14,018' (55') Air compressor down 3 1/2 hrs for repairs. Dropping third primary unit until parts are in from Denver. In hole w/bit #3, avg. 3.7. Mud 8.9, 60 sec, PL 22, YF 6, Gel 2-5, PH 12.0, WL 6.0, 2/32 PF 1.2, Cl 1500, Ca 80 Sol 4 1/4, Sand-trace, oil 4%, LCM 1# PB. Lost 300 bbls @ 13,993 due to reduced air volume.

10/11/67 14,040' (22') Drilling. Back on bottom w/new bit @ 4 am Cutting 4' hr.

10/12/67 14,103' (63') Drlg sand - white very fine grain.

10/13/67 14,129' (26') Drilling.

10/16/67 14,274' (115') Drlg. Mud vol. 310 CFM, 100# psi, air vol. 2100 CFM @ 750 psi. Drlg 14,201 to circ. 1 hr. PCH, chkd 9 ring on concrete drill pi. Inspected DC's. W/H w/bit #33 9" X55R. Reduced hole 14,210 from 9 5/8 to 9" bit #32, 9 5/8" TCT made 84' in 24 3/4 hrs. Avg. 3.4' PH, 36 RPM & 45,000# wt. resumed 14,210 3:15 pm 10/15/67.

10/17/67 14,344' (70') Tripping out of hole.

10/18/67 14,392' (48') Drlg. Bit #34 . On bottom & resumed drlg @ 4 pm.

10/19/67 14,426' (26') Drlg w/bit #35.

10/20/67 14,524' (98') Circulating for trip.

10/23/67 14,617' (93') Drlg. Losing partial returns. Encountered frac. zone @ 14,436'. 10/22 3U to run WL Schl. Survey. Encountered hard formation @ 14,615', appeared to be either hrd quartz or clear chert. 1/8" out of gauge. 10/23 Logging Schl. log Cal. poor. Rep. CR Tool. Approximately half thru logging. Loss of mud on 22nd approx. 2000 bbls while drlg.

Distribution:  
 Orig.: Drilling Section - Dallas  
 cc:- District Office  
 Engineering Division - (720)  
 Co-Owner(s) - As Appropriate  
 Regional Office, Well Record File

The Above is Correct:  
 SIGNATURE \_\_\_\_\_  
 DATE 10/24/67  
 TITLE Dist. Drlg. & Prod. Supervisor

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

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 "APPLICATION FOR PERMIT—" for proposals for GAS OPERATIONS)

5. LEASE DESIGNATION AND SERIAL NO. <b>SLC 9-06132-B</b>	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME <b>HIASATHA UNIT</b>	
7. UNIT AGREEMENT NAME <b>HIASATHA UNIT</b>	
8. FARM OR LEASE NAME	
9. WELL NO. <b># 1</b>	
10. FIELD AND POOL, OR WILDCAT <b>Wildcat</b>	
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <b>Sec. 13-15-7E</b>	
12. COUNTY OR PARISH <b>Carbon</b>	13. STATE <b>Utah</b>
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.) <b>10,000 ±</b>

**NOV 8 1967**  
 U. S. GEOLOGICAL SURVEY  
 SALT LAKE CITY, UTAH

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <b>Running Casing</b>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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.)\*

Run 335 Jts. 7 5/8" OD 29.7# and 33.7# 8-95 and Gr. 95 casing. Landed at 14,851'.  
 20 HACO rumped 100 bbls mud, 10 bbls water and 25 bbls mud flush, drop bottom plug - mixed 800 sacks 50-50 Fomix cement with 2% gel and 9/100 Halad 9 per sack 14.16/gal. slurry - drop top plug. Started mixing at 6:30 AM 11/3/67 173 bbls - started displacing at 7:00 AM - 670 bbls. Plug down at 8:10 AM 11-3-67. Maximum pressure 2800 PSI. Released pressure float ok back flow 6 bbls. (String wt. 410,000# left hanging on elevators 24 hrs. 20 Schlumberger and started running temperature survey @ 10:00 AM 11-3-67. 3 centralizers on bottom 5 Jts. finished temperature survey @ 12:30 AM 11-4-67 probable cement top @ 10,950'. Raised BOP with trucks. Casing hanging on elevators with 410,000#, Blacked off 40,000# weight (approx. 6") installed 7 5/8" McElvoy Type 28-2 casing hanger. Set all weight 370,000# on hanger, cut off casing 4" above RMP.

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

SIGNED *[Signature]* TITLE Dist. Dir. & Prod. Supervisor DATE 11/7/67

(This space for Federal or State office use)

APPROVED BY *[Signature]* TITLE MANAGER DATE 11/7/67

CONDITIONS OF APPROVAL, IF ANY:

**INSTRUCTIONS:** This form is used during drilling or workover operations. If testing, coring, or perforating, show formation name in describing work performed. Number all drill stem tests sequentially. Attach description of all cores. Work performed by Producing Section will be reported on "INTERIM" sheets until final completion. Report official or representative test on "FINAL" form. (1) Submit "INTERIM" sheets when filled out but not less frequently than every 30 days, or (2) on Wednesday of the week in which oil string is set. Submit weekly for workovers and following setting of oil string until completion.

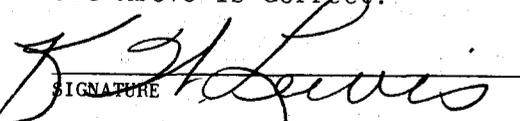
**DAILY WELL HISTORY - INTERIM**

District RM - MC County or Parish CARBON State UTAH

Field GENTRY MOUNTAIN AREA Lease or Unit HIAWATHA UNIT Well No. 1

Date & Depth at 8:00 A.M.	Complete Record for each Day While Drilling or Workover in Progress
10/24/67 14,649' (32')	Bit #37 RGLXJ. Finished logging. Rigged down Schl. SIH w/bit @ 1 PM 10/24/67. Reamed 10' to bottom & started drlg @ 8:25 pm. Lost 700 bbls in cleaning zone & estimated circ. on bottom. Drlg w/good returns 3 or 4 feet per hr. Mud 8.9, Vis 48, PV 18, YP 6, Gel 2-5, PH 11, WL 6.8, 2/32 PF 7, Cl 1400, snd - trace, oil - nil, 2# LCM per bbls. Ca 120, solids 4 1/4.
10/25/67 14,743' (94')	Drlg in snd & dol @ 4.1' per hr. Bit #37 RG-1. Lost some mud, 200-300 bbls. Spotted LCM, regular returns.
10/26/67 14,768' (25')	Drlg w/partial returns. Bit #38 in @ 14,767'. Mud 8.9#, visc 52, PV 22, pal 1.4, YP 6, Ph 12.5 cl 1500, gel 2/4 WL 6 cc, Cal 80, Sol 4 1/4%, snd trace, oil 4% LCM 4 per blls. Rec. loose snd grains in samples. Lost 200 before starting out of hole. 300 bbl loss when back on bottom.
10/27/67 14,847' (79')	Drilling.
10/30/67 14,866'(19')	Waiting for csg. Logged @ 14,866'.
10/31/67 14,866'(0')	Waiting on csg. Made short trip. Hole in good condition. Pipe from Edmond, OK Houston, Texas & greens bayon in Price. Shipment from La. not reported.
11/1/67 "	Waiting on casing.
11/2/67 "	RU csg tools Laid down DP.
11/3/67 "	WOC Ran & cmtd combination string of 7 5/8" Gr. 95 csg @ 14,851' w/800 cu. ft. of 50-50 Pozmix + 2% gel and .9# per cu. ft. Halad 9. Plug down 8:10AM 11/3/67.
11/6/67 "	Fishing. Ran Schl. Temp. Survey 15 hrs after plug landed. pipe wt. 410,000#, Top of cmt behind csg at 10,900'. Landed csg in McEvoy SB-2 Hanger at 370,000#. NU blowout preventer & tested ok. Picked up 24-5 1/4" OK DC's. While running 3 1/2" OD 13.3# Gr. E DP @ 8100'. Joint broke @ base of slip area dropping string to top of cmt. Picked up DP jars, safety jt. & overshot. Now GIH to fish.
11/7/67 "	POH w/fish. On first run w/Bowen overshot jars & bumper sub. Pulled fish to 310,000# net & rec. 84' 3 1/2" Gr. E DP. On 2nd run caught fish. Pulled 260-270-290 290,000# rotating & worked fish free. Now POH to lay down. Tuboscope & straighten DP.
11/8/67 "	Rec. all of fish, now straightening & Magnafluxing DP & DC.
11/9/67 "	Inspecting & straightening pipe. 35% of 3 1/2" OD 13.30# pipe showing cracks in slip area. Rig on standby w/crews.
11/10/67 "	GIH w/bit.

Distribution:  
 Orig.: Drilling Section - Dallas  
 cc:- District Office  
 Engineering Division - (720)  
 Co-Owner(s) - As Appropriate  
 Regional Office, Well Record File

The Above is Correct:  
  
 SIGNATURE \_\_\_\_\_ DATE 11/14/67  
**District Drilling and Production Supervisor**  
 TITLE \_\_\_\_\_

**INSTRUCTIONS:** This form is used during drilling or workover operations. If testing, coring, or perforating, show formation name in describing work performed. Number all drill stem tests sequentially. Attach description of all cores. Work performed by Producing Section will be reported on "INTERIM" sheets until final completion. Report official or representative test on "FINAL" form. (1) Submit "INTERIM" sheets when filled out but not less frequently than every 30 days, or (2) on Wednesday of the week in which oil string is set. Submit weekly for workovers and following setting of oil string until completion.

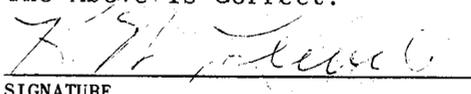
**DAILY WELL HISTORY - INTERIM**

District DE-NC County or Parish CARBON State UTAH

Field CENTRY MOUNTAIN AREA Lease or Unit HIALATHA UNIT Well No. 1

Date & Depth at 8:00 A.M.	Complete Record for each Day While Drilling or Workover in Progress
11/13/67 14,901' (35')	POH w/squeeze tool after job no. 2. Drld out csg cnt to 14,836' and lost full returns. Corrected 7 5/8" csg seat to 14,834'. Set Howco RTTS tool @ 14,336'. Filled U. P. Csg annulus w/85 BW. Indicating FL of 2850'. Pumped in formation @ rate of 16 BPM @ 1500# dropping to vacuum @ lower press. Squeezed w/200 sx 50-50 Rosmix + 2% gel & 25# Gilsonite per sx + .5% HR-4 retarder. Displaced 36 bbls. @ 1000#. Shut pump down & cleared csg on vacuum. Flushed tool & DP 20 bbls. WOC 11:30 AM 11/11/67 to 11/12/67. Failed to break down fm @ 3000#. FL after cnt set @ 540' inside DP. Pulled tool out of hole. Drld cnt & cleaned out to 14,866' w/full returns. Drld 2' to hole w/bit running as if on fractured area. Last full returns. Drld 6' further regaining partial returns. Made connection & failed to regain returns. Drig dry to 14,901'. POH & squeezed w/200 sx 50-50 rosmix + 2% gel + 25% gil. per sx + .5% HR-4 retarder. Max. press 3000# @ . POH w/bit.
11/14/67 14,913' (12')	Drig at rate of 5' per hr. waited on cnt to set untail 4 am 11/14/67. CO to 14,901' w/ minor losses of circulation. Assumed drig & mud 8.9#, 34 sec, 20 c
11/15/67 14,951' (38')	Drig w/approx. 10% returns. Drig approx. 4' per hr. Made trip @ 14,931' to replace bit. Intermittent loss of returns since 14,931'. Mud 8.9#, 38 sec. w/15# per bbls LCM. Will run DST.
11/16/67 14,958' (7')	Running DST #1. Stuck and freed pipe at 14,929'.
11/17/67 14,958' (0')	WOC for 2nd stage of squeeze job. Mud 8.7# (.452) DST #1 Solo. sec. from base of csg 14,834-14,958'. Good strong flow of air thruout. Rec. Wtr cushion 2000'. Mud 3680', muddy wtr 2484', wtr 765'. Set Howco RTTS 14,336'. Tested annulus w/1000#. Pumped in fm. @ 5.25 BPM @ 1900#. Rmtd 100 sx 50-50 Ros+2% gel+20% 20-40 snd+25% Gil. per sx. Max press 1600#. Cleared csg 3 bbls. FL. csg annulus 6 bbls. Stdg press 700# JC 6:30 am
11/20/67 15,114' (156')	Drilling. Dolomite, made trip w/plugged bit. Bit #44 in hole.
11/21/67 15,194' (80')	Drig. Dolomite. Mud 8.8# 39 sec, VL 12.5 cc, LCM 8# per bbl. Bit #45 in hole, Bit #44 YOC. Cut 131' in 16 hrs. Rated T4, E7 CG.
11/22/67 15,308'	(114') Tripping.
11/24/67 15,308'	Repairs.
11/27/67 15,380' (72')	Squeeze job #5, set RTTS per @ 13,900'. Mixed 200 sx of 50-50 ros w/2% gel & 3-14 HR-4. 25# per sx of gilsonite, 20# of 20-40 snd per sx. Displaced formation & opened hole w/3000# per sq. inch. Displaced top of cnt to 14,904'. Chkd squeeze & held on. POH w/RTTS per. Started in hole w/Bit #47, dropped pin from DC safety clamp. PO & picked up magnet in hole to fish.
11/28/67 15,421' (41')	Mixing mud. Made a trip w.a magnet to recover pin out of DC safety clamp, no luck went back in w/Bit #48. Drld firm cnt 14,900-14,950. Drld soft cnt 14,950-15,330' open hole, no cnt present 15,335-380'. Drld 15,421 w/partial returns. Mixed LCM pill and presently mixing mud.
11/29/67 15,451' (30')	POH to pick up test tool to make DST #2. Drld w/partial returns, mixed mud, lost circulation material. Drld without returns 15,433-451'. POH to make DST.

Distribution:  
 Orig.: Drilling Section - Dallas  
 cc:- District Office  
 Engineering Division - (720)  
 Co-Owner(s) - As Appropriate  
 Regional Office, Well Record File

The Above is Correct:  
  
 SIGNATURE \_\_\_\_\_ DATE 11-30-67  
 District Drilling and Production Supervisor  
 TITLE \_\_\_\_\_

**INSTRUCTIONS:** This form is used during drilling or workover operations. If testing, coring, or perforating, show formation name in describing work performed. Number all drill stem tests sequentially. Attach description of all cores. Work performed by Producing Section will be reported on "INTERIM" sheets until final completion. Report official or representative test on "FINAL" form. (1) Submit "INTERIM" sheets when filled out but not less frequently than every 30 days, or (2) on Wednesday of the week in which oil string is set. Submit weekly for workovers and following setting of oil string until completion.

**DAILY WELL HISTORY - INTERIM**

District RM-MC County or Parish CARBON State UTAH

Field GENTRY MOUNTAIN AREA Lease or Unit HIAWATHA UNIT Well No. 1

Date & Depth at 8:00 A.M.	Complete Record for each Day While Drilling or Workover in Progress
11/30/67 15,451' (0')	Prep. to squeeze DST #2 15,380-451. 2500' wtr cushion. Open 5 min. w/strong blow SI 30 min. Open 1 hr 37 min. SI 30 min. Opened w/good blow, died in 1 hr. 20 min. Rec. wtr cushion + 9528' (63.5 bbls) muddy wtr. Hydrostatic press. initial 5925# final 5657#. Flow press & SI press approx. hydrostatic press. Misrun due to leakage around pkr thru formation. NOTE: blow routed thru gas analyser indicated a momentary 4 unit methane kick at start and then a consistent 6 unit inert gas (CO <sub>2</sub> )? reading for remainder of blow.
12/1/67 15,451'	Squeezed w/200 sx. FP 3500#. Drlg cmt 14,900'.
12/4/67 15,472' (21')	POH w/ Core #1. Core #1 15,463'-72' bbl jammed. Squeeze job #6. Set Howco RTTS @ 14,746'. Loaded annulus. FL indicated to be 5600'. Squeezed open hole 14,834-15,451' (on trip found error in driller's tally). Strapped in 15,441 DM = 15,451' SLM. Corrected depth to 15,451' with 200 cu ft 50-50 Pozmix + 21# of 20-40 sand per sx + 12 1/2# Gilsomite per sx + .3% HR-4. Final press. 3500#. Top of cmt @ 15,000' in open hole. Drld hard cmt to bottom. Drld 2' new hole - ran Christensen diamond core bbl. New hole drlg @ 2 min per foot. Nine feet cored at rate of 7 mins. per foot.
12/5/67 15,462'	GIH w/bit to condition for DS <sup>4</sup> . Rec. 9' core (15,453-62') Dolo, w/Xyl inclusions. Penpoint to slightly vugular permeability w/quartz grains in the vugs. Some fracturing w/fractures recemented. Attempted DST #2. Wall suck & freed in 6 hrs after opening reverse port and spotting Pipe-Lax.
12/6/67 15,474'	(12') POH to run DST. Mud 8.6, 37 sec, PV 7, gel 0-1, Solids nil, WL 12.2 cc.
12/7/67 15,474'	POH w/DST #2. Stuck tester opened circ. port. Spotted pipe, Lax-Tester free 6 hrs.
12/8/67 15,541'	(67') Making trip. Lost full circulation at 15,494'.
12/21/67 15,596' (55')	POH to drill out squeeze job. Drld 15,541 to 15,596' no circ. Conditioned hole. Set Howco RTTS tool at 14,770'. Stage #1 pmpd in @ 4 BPM @ 1700#. Pmpd 200 sx 50-50 Poz + 2% gel + .3% HR4 + 25# Gilsomite + 20# of 20-40 mesh sand per sx. Slowed pump in rate to 1 BPM @ 400#. Press. dropped to vacuum. Cleaned hole. WOC 11 hrs. Squeezed w/200 sx as above. After shut down press increased to 2400#. Failed to pump in after 10 hrs at 3000#.
12/12/67 15,596'	(0') Drlg. firm cmt @ 15,400'. Drld firm cmt from 14,900-15,160'. Cmt much softer
12/13/67 15,753' (157')	GIH w/bit #54. Drlg w/wtr., Dolo & Chert. Bit #53 yeg. Drld cmt @ 157' new hole. T3-B7-G1. Av. fm drlg rate 22' per hr.
12/14/67 15,753'	(0) Mixing mud. Stuck & freed DP w/bit @15,623'. Freed pipe by spotting pipe lax solution. Stuck pipe second time @ 15,653' Freed as above. Pipe wall sticking on
12/15/67 15,882' (129')	POH to log. Mud 8.6, 33 sec Ph 5, Yp 2, Gel 0-1, PV 10.5, WL 13, 2/32" FC, Pal .5, Salt 600, Cal 200 solids 2%, sand 1/2", oil nil, LCK 5# per bbl. List full returns @ 15,882'. Drld w/no returns from 15,541-15,596'. Squeezed lost circ w/400 sx special cmt in 2 stages. On trip at 15,753' wall stuck and freed pipe twice w/ Pipe Lax.

Distribution:  
 Orig.: Drilling Section - Dallas  
 cc:- District Office  
 Engineering Division - (720)  
 Co-Owner(s) - As Appropriate  
 Regional Office, Well Record File

The Above is Correct:  
 SIGNATURE \_\_\_\_\_  
 DATE 12/18/67  
 TITLE District Drilling and Production Supervisor

**INSTRUCTIONS:** This form is used during drilling or workover operations. If testing, coring, or perforating, show formation name in describing work performed. Number all drill stem tests sequentially. Attach description of all cores. Work performed by Producing Section will be reported on "INTERIM" sheets until final completion. Report official or representative test on "FINAL" form. (1) Submit "INTERIM" sheets when filled out but not less frequently than every 30 days, or (2) on Wednesday of the week in which oil string is set. Submit weekly for workovers and following setting of oil string until completion.

**DAILY WELL HISTORY - INTERIM**

District   M-HC   County or Parish   CARBON   State   UTAH  

Field   CENTRY MOUNTAIN AREA   Lease or Unit   HIALATHA UNIT   Well No.   1  

Date & Depth at 8:00 A.M. Complete Record for each Day While Drilling or Workover in Progress

12/18/67 15,882' Waiting on fishing tools. Attempted to run Dual Ind. Lat. log, tool failed. Ran formation Density and Comp. log from 15,874-14,844. Schl. TD 15,875'. Ran SDR log 15,874-14,844, finished logging 2 a. m. 12/16. Rigged down Schl. Mill to clean out. Went 200' off bottom, pipe parted just below slips. SDR w/overshot caught fish. Left in hole 6 5/8" bit 1 - 5 1/4" OD bottom hole collar, 11 stands drill pipe.

12/19/67 15,882' No fishing tools to repair parted csg. Started laying down bent DR. Found 7 5/8" csg parted 58 feet from surface. Laying down bent DR & WU csg spear.

12/20/67 15,882' LD bent DR. prep. to pull parted 7 5/8" csg w/spear.

12/21/67 " Removed blow out preventers. Pulled 2 jts. 7 5/8" csg. installed blow out preventers. Loaded out approx. 8700' DR to be straightened & Tuboscoped. To shut rig down 12/22/67 4:00 PM until 12/26/67 while waiting for csg back off tool.

12/22/67 " Straightening DR & WU fishing tools. Logged 12-16 15,874-14,844 parted DR fished leaving 11 stands DR 1 DC and 6 5/8" bit broke 7 5/8" casing 58" below surface

12/26/67 " Waiting to straighten DR & WU fishing tools.

12/27/67 " Straightening DR

12/28/67 " Started rig 12 noon 12/27. Ricked up Houston Engr. Back off tool. Backed off 15,000' 7 5/8" approx. 440'.

12/29/67 " Fishing straighted DR repairing 7 5/8".

1/2/68 " W. C. Fishing tools.

1/7/68 " Attempting to go over fish failed to catch fish with overshot. DR ran w/collough collars. SDR w/flat bottom mill.

1/7/68 15,882' 12/29 - 12 noon completed DR after resetting 7 5/8" csg. U fish bottom mill w/DR. U DR. 12/29 milled over w/washover mill no appreciable results. came out of hole. U Bowen overshot w/cut lip guide. Attempted to move over fish. lost 5 of 6 basket grapples in hole. 1/1 ran overshot w/cut lip guide. Failed to get over fish. DR 1/2 ran overshot w/bent jt. DR. Ran McCollough collar locator to check relation of DR to fish. Failed to catch fish. DR. IR w/wall hook. Wall hook engaged top of fish but was unable to pull into grapple. Ran internal tapered flat bottom mill. milled 2' DR. DR. 1/2 ran used WU 6 3/8" bit. Failed to drill by fish. DR to run washover pipe w/basket grapple.

1/8/68 Top of fish 14,872'. Failed to drill by fish w/ 6 7/8 rock bit. Rock bit showed imprint 3 1/2" DR in center of pipe. Ran Bowen overshot with 1/2" fluted cut lip guide and mill guide/ Went over fish approx 8" unable to get top of fish thru mill guide. DR. DR w/ fluted mill 5 feet 6 3/8" OD x 3 1/2" ID. Washed & milled over fish to 14,872'. DR run overshot.

Distribution:  
 Orig.: Drilling Section - Dallas  
 cc:- District Office  
 Engineering Division - (720)  
 Co-Owner(s) - As Appropriate  
 Regional Office, Well Record File

The Above is Correct:  
 \_\_\_\_\_  
 SIGNATURE 1/8/68

TITLE   District Drilling and Production Supervisor

1/15/68

Mr. Childers → "Atlantic-Redfield"  
Hiawath # 1  
sec 13 T 15 S R 7 E Carbon Co.

20" - 154

13" - 4594

10<sup>3</sup>/<sub>4</sub> - 8300 (2400 felloes)

7<sup>5</sup>/<sub>8</sub> - 14834

T.D. 15882

(fresh 420)

high

7 DST = 14900 to 15560 for R<sub>1</sub>

Mon - 14932

Tue - 15830

top fish @ 14874

} no shows  
4000

14762-74 - Test 1st

Cast bridge plug - below perp. - DST and:

350 lbs cement squeezed <sup>→ 100 lbs into perp. section open hole</sup> - @ 1200 psi  
further open -

99 ~~plug~~ Cut ~~at~~ 7<sup>5</sup>/<sub>8</sub> plug up

plug across Coal zone (in case 13" cement)

Will send in program on further  
plugs depending on ability to cut casing

CMP

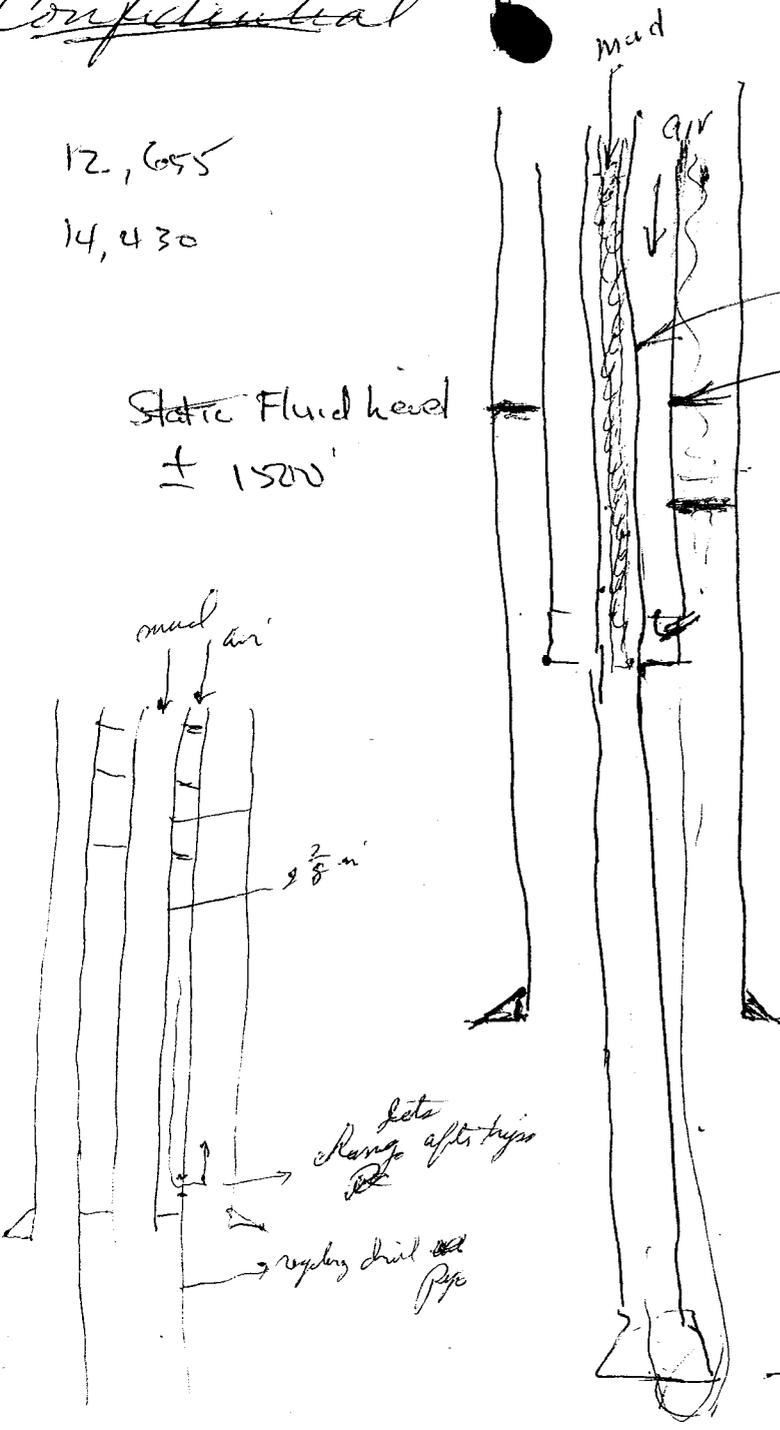
Confidential

Ad 20 - Redfield  
N sawtooth # 1  
Diagram of Concentric Drilling

12,655

14,430

Static Fluid head  
± 1500'



Inner tube 2<sup>3</sup>/<sub>8</sub> or 2<sup>7</sup>/<sub>8</sub>

5" OD DP

4 - 5/8 Jets @ 3400-3500

8300 ± 10<sup>3</sup>/<sub>4</sub>"

Kiabaal host 800 B61

Cocorino host 300 B61

@ 14,430

lets  
Range after tips

replay drill  
Ppc

296 GPM

@

1000 - 1100 #

2100 CFM

@

800 - 900 #

10/19/67

*[Signature]*

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

SUBMIT IN THE REVERSE SIDE (Other instructions reverse side)

Form approved. Budget Bureau No. 42-R1424.

JAN 22 1968

5. LEASE DESIGNATION AND SERIAL NO.

SCL U-06132-B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Hiawatha Unit

8. FARM OR LEASE NAME

Hiawatha Unit

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 13, T15S, R7E

12. COUNTY OR PARISH

Carbon

13. STATE

Utah

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 APPLICATION FOR PERMIT for such proposals.)

1. OIL WELL [X] GAS WELL [ ] OTHER [ ]

2. NAME OF OPERATOR Atlantic Richfield Company

3. ADDRESS OF OPERATOR Box 520, Casper, Wyoming

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1980' PNL and 1973' FEL, Sec. 13, T15S, R7E

14. PERMIT NO. 15. DEPT. (S, M, F, or GR, etc.)

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF [ ]

PULL OR ALTER CASING [ ]

WATER SHUT-OFF [ ]

REPAIRING WELL [ ]

FRACTURE TREAT [ ]

MULTIPLE COMPLETE [ ]

FRACTURE TREATMENT [ ]

ALTERING CASING [ ]

SHOOT OR ACIDIZE [ ]

ABANDON\* [X]

SHOOTING OR ACIDIZING [ ]

ABANDONMENT\* [ ]

REPAIR WELL [ ]

CHANGE PLANS [ ]

(Other) [ ]

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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.)

The subject well has been drilled to 15,882' logged, dropped drill pipe and are unable to clean out below 14,874'. It is proposed to squeeze through the 7 5/8" casing with 350 sacks cement leaving cement at or near the 13,000' level, effectively closing perforations 14,762' to 14,774' and open hole below casing. Bridge plug set at 14,800' has 600# shear relief bottom. After the 7 5/8" casing is recovered an additional plugging plan will be submitted for approval.

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

SIGNED

[Signature]

TITLE

Dist. Drlg & Prod. Supervisor

DATE

1/19/68

(This space for Federal or State office use)

APPROVED BY

(ORIG. SGD.) R. A. SMITH

TITLE

DISTRICT ENGINEER

DATE

JAN 22 1968

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> <small>(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)</small>		5. LEASE DESIGNATION AND SERIAL NO. SCL U-06132-B
1. <input checked="" type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR ATLANTIC RICHFIELD COMPANY		7. UNIT AGREEMENT NAME HIAWATHA UNIT
3. ADDRESS OF OPERATOR BOX 520, CASPER, WYOMING		8. FARM OR LEASE NAME HIAWATHA UNIT
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1980' FNL and 1973' FEL, Sec. 13, T15S, R7E		9. WELL NO. 1
14. PERMIT NO.		10. FIELD AND POOL, OR WILDCAT Wildcat
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 10,046 Ungraded GR 10,063' KB		11. SEC. T., R., M., OR BLK. AND SURVEY OR AREA Sec. 13, T15, R7E
		12. COUNTY OR PARISH Carbon
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input checked="" type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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.)\*

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APPROVED BY DIVISION OF  
OIL & GAS CONSERVATION

DATE JANUARY 22, 1968

BY *Paul M. Burchell*  
Petroleum Engineer

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

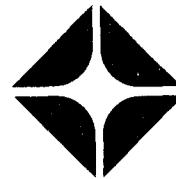
SIGNED *[Signature]* TITLE Dist. Drlg. & Prod. Supervisor DATE 1/19/68

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

AtlanticRichfieldCompany

North American Producing Division  
Rocky Mountain Area  
Post Office Box 520  
Casper, Wyoming 82601  
Telephone 307 237 2525



January 19, 1968

State of Utah, Department of Natural Resources  
Division of Oil and Gas Conservation  
348 South Temple  
Suite 301  
Salt Lake City, Utah

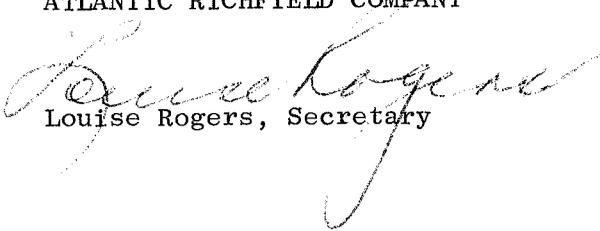
Attn: Kathy H. Dugdale, Secretary

Dear Miss Dugdale:

Will you please forward us a supply of your State of Utah Oil and Gas Conservation forms covering the completion of a well, application for permit to drill, deepen, or plug back a well and sundry notice and reports on wells.

Yours very truly,

ATLANTIC RICHFIELD COMPANY

  
Louise Rogers, Secretary

P. S. Please return all copies of the attached Sundry Notice not required by you for company distribution.  
Thanks.

*Sent.*

*1-22-68*

**INSTRUCTIONS:** This form is used during drilling or workover operations. If testing, coring, or perforating, show formation name in describing work performed. Number all drill stem tests sequentially. Attach description of all cores. Work performed by Producing Section will be reported on "INTERIM" sheets until final completion. Report official or representative test on "FINAL" form. (1) Submit "INTERIM" sheets when filled out but not less frequently than every 30 days, or (2) on Wednesday of the week in which oil string is set. Submit weekly for workovers and following setting of oil string until completion.

**DAILY WELL HISTORY - INTERIM**

District RM-MC County or Parish Carbon State Utah

Field Gentry Mountain Area Lease or Unit Hiawatha Unit Well No. 1

Date & Depth at 8:00 A.M.	Complete Record for each Day While Drilling or Workover in Progress
1/8/68 15,882' TD	WOF tools. Caught fish 1/5/68. Jarred with 100,000# above drill string wt. Failed to move fish. Unable to release overshot. Backed off DC stem & WO back off tools from Kilgore and Odessa, Texas.
1/9/68 "	W O tools.
1/10/68 "	Top of fish @ 14,874' waited on fishing tool until 2 PM 1/9/68. WIH and caught top of fish w/OS & DST device. Now opening test tool.
1/11/68 "	Top of fish approx. 14,400'. Attempted to screw cplg on Johnson DST Pkr & failed. POH, now running taper top = 1 5/8" x 2 7/8" w/ 1/2" opening to retrieve pkr. Lost 4 hrs. due to wind and snow.
1/12/68 "	Top of fish 14,560'. Caught fish @ 14,872'. Unable to work free. Top of fish plugged w/debris. Failed to release overshot. Backed off DC @ 14,564'. Caught fish w/ Johnson tester and failed to free. Unable to release tester. Backed off tester while releasing pkr. Retrieved tester. Fished pkr. Now coming out of hole w/ tester anchor.
1/15/68 "	Top of fish 14,874'. Setting BP w/pump out sleeve. Rec. DST Mandrel & blank sub. Rec. overshot & jars from upper fish. While GIH to screw into fish, DP parted 60' off bottom (DP cut by uneven setting of slips). Caught fish @ 150' w/overshot. Pulled fish from 14,874' (tool jts forged together by force of drop). LD DC's, ran Schl. Gamma Neutron Collar log. Ran gauge & junk basket.
1/16/68 "	DST Perf. 14,762-74'. Rec'y 3128' TF. 1380' muddy wtr & LC mat'1. 460' LC mat'1 & mud. 466' muddy wtr & GG LC mat'1. 828' muddy wtr & GG LC mat'1 (50% drlg mud). ITO 17 min, ISI 45 min to 3 hrs. FSI 1 1/2 hrs. IHP 5799#, IFP 727 to 906#. ISIP 5014#. FFP 1656#, FSIP 3663#. FHP 6299#. GIH to check retainer.
1/17/68 "	Ran DST & set @ 14,790'. BP tested dry. Reset DST @ 14,730' to test perf 14,762-74 IO 15 min. ISI 30 min OF 6 hrs Rec, 950' fluid (7.2 bbls) composed of 920' <del>xxx</del> (7 bbls) wtr w/resis of 7 ohms @ 5' F & 30' of drlg mud. IFP 173#, ISIP 4942#/30 OFP 192# to 1977#/6hrs. FSIP 4424#/1 1/2 hrs. HP 5656# FP 6371#. Please Note: Csg was filled above the pkr after final setting of DST. Weare laying DP to plug.
1/8/68 "	Laid down DP & removing BOP's.
1/19/68 "	Plugging. Gr. G DP parted in slips w/14,000' pipe in hole. Tool jts cold formed together. Rec. DC's, jars, bumper sub & upper half Bowen safety jt & overshot leavi top of fish @ 14,872'. Ran Gamma Neutron Survey. Set pump out, BP @ 14,800'. Perf. 14,762-14,774' w/4 JSPF. Ran 2 DST on zone rec. mud and formation wtr. LDDP. PU on 7 5/8" csg. found pipe free @ <del>2154'</del> 2154'. LD csg. Set Howco RTTS in csg @ 2250' Squeezed open hole & perf w/350 sx Howco cmt.
1/20/68 "	Squeezed perfs 14,762-774' w/350 sx cmt. Ran free point found 7 5/8" csg free 7500' PBD @ 8000'. Cut pipe @ 7970' w/Chemical cutter. LD 7 5/8" csg. Squeezed 7 5/8" x 10 3/4" csg lap w/400 sx cmt. Top of plug 7500'. Failed to release. Csg head slips w/500,000# pull. Cut csg @ 3976'. Unable to pull. Cut csg (10 3/4") below slips w/torch. Cut off McEvoy head and landingflange. Pulling 10 3/4" casing.

Distribution:  
 Orig.: Drilling Section - Dallas  
 cc:- District Office  
 Engineering Division - (720)  
 Co-Owner(s) - As Appropriate  
 Regional Office, Well Record File

The Above is Correct:  
 \_\_\_\_\_  
 SIGNATURE  
 \_\_\_\_\_  
 DATE  
**District Drilling and Production Supervisor**  
 \_\_\_\_\_  
 TITLE

**INSTRUCTIONS:** This form is used during drilling or workover operations. If testing, coring, or perforating, show formation name in describing work performed. Number all drill stem tests sequentially. Attach description of all cores. Work performed by Producing Section will be reported on "INTERIM" sheets until final completion. Report official or representative test on "FINAL" form. (1) Submit "INTERIM" sheets when filled out but not less frequently than every 30 days, or (2) on Wednesday of the week in which oil string is set. Submit weekly for workovers and following setting of oil string until completion.

**DAILY WELL HISTORY - INTERIM**

District RM-VC County or Parish CARBON State UTAH

Field GENTRY MOUNTAIN Lease or Unit HIAWATHA UNIT Well No. 1

Date & Depth at 8:00 A.M. Complete Record for each Day While Drilling or Workover in Progress

1/25/68 13,582' TD Pulled 3950' of 10 3/4" csg. Set 400 sx bridge. From 3700' max. press. 450#. 7500' FEB Perf. 18 3/8" @ 1900'. Spotted 200 sx cmt plug 2000-1700' No fluid stdg in hole. WCC.

1/24/68 13,562' TD P&A Perf. 8 holes @ 1900' Sptd 200 sx cmt from 1925' to 1762' WOC 9 hrs. No f. Present FEB 1000' id in hole above cmt. Perf. 8 holes @ 1690' Sptd 200 sx reg cmt + 3% CaCl2 + 1# Floccs per sx from 1762-1100'. Squeezed 35 sx into formation w/standing press. of 400# Released Rotary Rig 1/23/68 @ 11:59 pm Final until clean up June, 1968 Location 1980' FPL and 1973' FEL - Sec. 13, T15S, R7E, Carbon Co. Utah

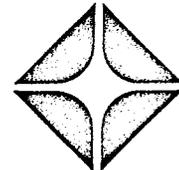
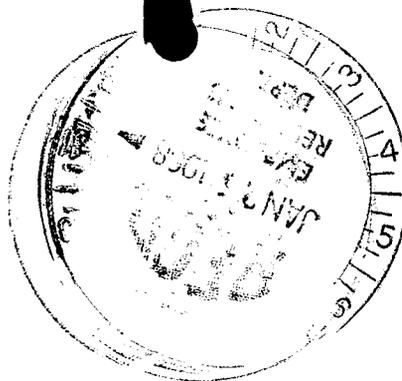
Distribution:  
 Orig.: Drilling Section - Dallas  
 cc:- District Office  
 Engineering Division - (720)  
 Co-Owner(s) - As Appropriate  
 Regional Office, Well Record File

The Above is Correct: January 25, 1968  
 SIGNATURE District Drilling and Production Supervisor DATE  
 TITLE

PAGE NO. 11 (NUMBER ALL DAILY WELL HISTORY FORMS CONSECUTIVELY AS THEY ARE PREPARED FOR EACH WELL.)

AtlanticRichfieldCompany

North American Producing Division  
Rocky Mountain Mid Continent District  
1500 Security Life Building  
1616 Glenarm  
Denver, Colorado 80202  
Telephone 303 266 3741



January 24, 1968

Mr. Ron Smith  
United States Geological Survey  
Oil and Gas Division  
Salt Lake City, Utah 84100

Re: Humble Reports of Hole Deviation in the Hiawatha Unit #1,  
1980' FNL and 1973' FEL of Sec. 13, Township 15 South,  
Range 7 East, Carbon County, Utah

Dear Mr. Smith:

The reports supplied to Atlantic Richfield Company by the  
Humble Oil & Refining Company record the following hole  
deviations:

1/2 degree	at 60'	1	degree	at 990'
3/4 "	at 120'	1	"	at 1020'
1/2 "	at 130'	3/4 "	"	at 1095'
3/4 "	at 150'	3/4 "	"	at 1188'
1/2 "	at 241'	1	"	at 1283'
3/4 "	at 351'	3/4 "	"	at 1540'
3/4 "	at 346'	1-1/4 "	"	at 1810'
1/2 "	at 525'	1+	"	at 2270'
3/4 "	at 634'	1-1/4 "	"	at 2660'
1/2 "	at 715'	1-1/4 "	"	at 2860'
3/4 "	at 814'	1	"	at 3060'
1/2 "	at 907'			

The deviations and depths reported include the coal seam zones  
now in production.

Very truly yours,

R. O. Childers (SIGNED) R. O. CHILDERS  
Dist. Prod. & Drlg. Supt.

ROC/mas

cc: Paul Burchell, Utah Oil & Gas Comm., Salt Lake City  
Ken Lewis  
Dallas Drilling Section  
Denver Well File

STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE\*  
(Other instructions on re-verse side)

*Subsequent*  
5. LEASE DESIGNATION AND SERIAL NO.  
SCLU-26133-B

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 "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		7. UNIT AGREEMENT NAME HIAWATHA UNIT	
2. NAME OF OPERATOR ATLANTIC RICHFIELD COMPANY		8. FARM OR LEASE NAME HIAWATHA UNIT	
3. ADDRESS OF OPERATOR BOX 520, CASPER, WYOMING		9. WELL NO. 1	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1980* FNL and 1973* FEL of Section 13, T15S, R7E		10. FIELD AND POOL, OR WILDCAT WILDCAT	
14. PERMIT NO.		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SEC.13, T15S, R7E	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 10,046 Ungraded GR, 10,063* KB		12. COUNTY OR PARISH CARBON	13. STATE UTAH

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input checked="" type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) _____	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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.)\*

RU to free-point 7 5/8" Casing. Pulled on casing and it was free. POH with 2162\* of 7 5/8". Set packer @ 2305\* and squeezed bottom of hole with 350 sxs 50-50 Pozmix down 7 5/8" csg. Cut off 7 5/8" @ 7970\* and POH with csg. Propose to cement 7 5/8" x 10 3/4" csg lap with 400 sx. Cut off and pull 10 3/4" csg. Spot top of 400 sx plug @ 3700\*. Perforate 13 3/8" @ 1900\* and cement with 200 sx plug 1700-2000\*. Perforate 13 3/8" @ 1690\* and cement with 300 sx plug 1100-1700\* and squeeze.

18. I hereby certify that the foregoing is true and correct  
SIGNED [Signature] TITLE Dist. Drlg. & Prod. Supervisor DATE 1-30-68

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

5. LEASE DESIGNATION AND SERIAL NO.  
**SCLU-261334B**

**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 "APPLICATION FOR PERMIT—" for such proposals.)

1. <input checked="" type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR <b>ATLANTIC RICHFIELD COMPANY</b>		7. UNIT AGREEMENT NAME <b>HIAWATHA UNIT</b>
3. ADDRESS OF OPERATOR <b>BOX 520, CASPER, WYOMING</b>		8. FARM OR LEASE NAME <b>HIAWATHA UNIT</b>
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface <b>1980' FNL and 1973' FEL of Section 13, T15S, R7E</b>		9. WELL NO. <b>I</b>
14. PERMIT NO.		10. FIELD AND POOL, OR WILDCAT <b>WILDCAT</b>
15. ELEVATIONS (Show whether on RT, or etc.) <b>10,046 ungraded GR, 10,063' KB</b>		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <b>SEC.13, T15S, R7E</b>
		12. COUNTY OR PARISH <b>CARBON</b> 13. STATE <b>UTAH</b>

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input checked="" type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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RU to free-point 7 5/8" Casing. Pulled on casing and it was free. POH with 2162' of 7 5/8". Set packer @ 2305' and squeezed bottom of hole with 350 sxs 50-50 Pozmix down 7 5/8" csg. Cut off 7 5/8" @ 7970' and POH with csg. Propose to cement 7 5/8" x 10 3/4" csg lap with 400 sx. Cut off and pull 10 3/4" csg. Spot top of 400 sx plug @ 3700'. Perforate 13 3/8" @ 1900' and cement with 200 sx plug 1700-2000". Perforate 13 3/8" @ 1690' and cement with 300 sx plug 1100-1700' and squeeze.

18. I hereby certify that the foregoing is true and correct  
SIGNED [Signature] TITLE Dist. Drlg. & Prod. Supervisor DATE 1-30-68

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

April 30, 1968

FINAL GEOLOGICAL REPORT

Atlantic Richfield Co.  
#1 Hiawatha Unit  
Carbon County, Utah

Location: SW NE Sec. 13-15S-7E

Atlantic Interest: 100%

Spud Date: 6-23-66

Completion Date: 1-24-68

Total Depth: 15882 Driller  
15871 Electric Log

Elevation: 10062 DF, 10063 KB, 10047 Grd.

Casing Record: 20" @ 154' w/ 240 sx  
13 3/8" @ 4594' w/3247 sx  
10 3/4" @ 8283' w/ 350 sx  
7 5/8" @ 14834' w/ 800 CFC

Completion Data: Plugged and Abandoned  
Squeezed open hole 14834-15882 and perforations 14762-774'  
w/350 sx cement

Pulled 7970 of 7 5/8" csg.  
Squeezed 7 5/8" x 10 3/4" csg overlap w/400 sacks cement

Pulled 3930' of 10 3/4" csg.  
Set 400 sack plug @ 3700'  
Set 200 sack plug @ 1700-1900'  
Set 300 sack plug 1100-1762'

Formation Tops: (By Sample and Electric Logs)

Black Hawk	904	+ 9159
Hiawatha Coal	1700	+ 8363
Emery	3358	+ 6705
Bluegate Shale	4405	+ 5658
Ferron Sand	6710	+ 3353
Dakota	7490	+ 2653
Morrison	8144	+ 1919
Entrada	9758	+ 305
Carmel	10590	- 527
Navajo	11445	- 1382
Wingate	11880	- 1817
Moenkopi	12560	- 2497
Sinbad	13310	- 3247
Kaibab	13790	- 3727
Coconino	13950	- 3887
Hermosa (?)	14430	- 4367
Humbug (Miss)?	14534	- 4471
Deseret	14932	- 4869
Madison	15830	- 5767

1588 West North Temple  
Salt Lake City, Utah 84116  
328-5771

July 31, 1968

ATLANTIC RICHFIELD COMPANY  
Box 520,  
Casper, Wyoming

Re: WELL NO HIAWATHA UNIT #1  
SEC. 13, T. 15S, R. 7E,  
CARBON COUNTY, UTAH

Gentlemen:

This letter is to advise you that the "Well Completion or Recompletion Report and Log" and electric and/or radioactivity logs for the above mentioned well are due and have not been filed with this office as required by our rules and regulations.

Please complete the enclosed Forms OGC-3, "Well Completion or Recompletion Report and Log", in duplicate and forward them to this office as soon as possible. If electric and/or radioactivity logs were not run, please make a statement to this effect in order for us to keep our records accurate and complete.

Your cooperation in this matter will be greatly appreciated.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

SHARON CAMERON  
RECORDS CLERK

sc

Enclosure: Forms OGC-3

September 5, 1968

ATLANTIC RICHEFIELD COMPANY  
Box 520  
Casper, Wyoming

Re: Well No. Hiawatha Unit # 1,  
Sec. 13, T. 15 S., R. 7 E.,  
Carbon County, Utan

Gentlemen:

In reference to our letter of July 31, 1967, we note that we have not received your "Well Completion or Recompletion Report and Log" for the above mentioned well. This report must be filed as required by our rules and regulations.

Please complete the enclosed Forms OGC-3, "Well Completion or Recompletion Report and Log," in duplicate and forward them to this office as soon as possible. If

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

  
SHARON CAMERON  
RECORDS CLERK

sc/sr

Enclosure: Forms OGC-3

STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION

(See other instructions on reverse side)

5. LEASE DESIGNATION AND SERIAL NO.  
SCL U-06132B

WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other \_\_\_\_\_

7. UNIT AGREEMENT NAME

HIAWATHA UNIT

8. FARM OR LEASE NAME

HIAWATHA UNIT

b. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. RESVR.  Other \_\_\_\_\_

9. WELL NO.

1

2. NAME OF OPERATOR  
ATLANTIC RICHFIELD COMPANY

10. FIELD AND POOL, OR WILDCAT

Wildcat

3. ADDRESS OF OPERATOR  
BOX 520, CASPER, WYOMING

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

Sec. 13, T15S, R7E

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*

At surface 1980\* FNL and 1973\* FEL of Sec. 13, T15S, R7E

At top prod. interval reported below Same

At total depth Same

12. COUNTY OR PARISH  
Carbon

13. STATE  
Utah

14. PERMIT NO. DATE ISSUED

15. DATE SPUDDED 6-23-66 16. DATE T.D. REACHED 12-15-67 17. DATE COMPL. (Ready to prod.) N/A 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* 10,046\* ungraded G.L. 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 15,882\* 21. PLUG, BACK T.D., MD & TVD --- 22. IF MULTIPLE COMPL., HOW MANY\* --- 23. INTERVALS DRILLED BY ROTARY TOOLS 0-15,882\* CABLE TOOLS ---

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\* N/A 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN Formation Density, GR Neutron, Dual Ind., Laterlog, Neutron Porosity 27. WAS WELL CORED Yes

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
20"	---	154*KB	26"	Cemented to surface 240 sx	---
13 3/8"	Combination	4594*	17 1/2"	3247 sx	
10 3/4"	"	8283*	12 1/4"	350 sx	3930*
7 5/8"	"	14,834*	9 5/8"	800 CFC	7970*

29. LINER RECORD				30. TUBING RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)  
14,762-14,774\* w/4 jets/ft.  
Ran DST on above perfs. Recovered 920\* muddy water and 20\* mud.

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.  
DEPTH INTERVAL (MD) 14,762-14,774\* plus open hole  
AMOUNT AND KIND OF MATERIAL USED Squeezed with 350 sxs cement.

33.\* PRODUCTION

DATE FIRST PRODUCTION N/A PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) WELL STATUS (Producing or shut-in)

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TEST WITNESSED BY

35. LIST OF ATTACHMENTS

Final Geological Report attached

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED *[Signature]* TITLE Dist. Drlg & Prod. Supervisor DATE 9-9-68

# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

**Item 29:** "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool. **Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	GEOLOGIC MARKERS
Desert			<p>DST #1 2000' wtr cushion, 2 hr. flow, rec. 2000' wtr cushion, 3680' mud, 2484' muddy wtr &amp; 765' wtr. IF 3424, ISI 6103, FF 4317, FSI 5299(test 14,834-14958')</p> <p>Core #1 Cut 15,463-72' Cut 9' Rec. 9' Dolomite DST</p> <p><del>Core</del> # 3 (#2 Rerun) Test 15,462-15,747' No water cushion, 1 hr flow, rec. 30' mud. IF 49#, ISI 4456#, FF 284#, FSI 4456#, BHT 222' F</p>		

SEP 10 1958