

AMERICAN ELECTRIC POWER Service Corporation



P.O. Box 700
Lancaster, OH 43130
(614) 687-1440

May 2, 1978



Mr. J. W. Moffitt
Regional Mining Supervisor
United States Geological Survey
Room 432 - Federal Building
Mining Division
Salt Lake City, Utah 84111

RE: Proposed Diamond Core Drilling on coal leases SL048442-050115, SL071737, U25485 and U25484

Dear Sir:

This letter with the attached two maps and 10 drilling permit applications is officially submitted to you for consideration relative to the continuation of the drilling program on the coal properties being currently developed by American Electric Power and Braztah Corporation, Carbon County, Utah. These hole locations have been selected to define the limits and characteristics of the mineable coal seams to facilitate the development of the present mines in the area.

All the drilling will be done to test the complete series of coal seams in the area. We anticipate that the coal seam measures will be cored using wireline equipment in all but two of the holes. In these two, rotary equipment will complete the holes and all holes will be geophysically logged using resistance, gravity and gamma-ray logs. We are planning to rotary drill the upper non coal bearing formations in the hole located on the ridges. We have found several poor rock formations above the Castle Gate sandstone in the past which close in around the drill pipe and cause problems during drilling. The locations and approximate depths of the holes are listed below:

Hole No.	Location	Lease No.	Collar Elevation	Total Depth
MC-1-78	NE $\frac{1}{4}$ Sect 4 T12S R10E	SL048442-050115	7200	1200
MC-3-78	NW $\frac{1}{4}$ Sect 26 T12S R9E	SL071737	6900	2000

Mr. J. W. Moffitt
May 2, 1978
Page 2

Hole No.	Location	Lease No.	Collar Elevation	Total Depth
MC-4-78	SW $\frac{1}{4}$ Sect 30 T12S R9E	U25485	9100	3000
MC-5-78	NE $\frac{1}{4}$ Sect 30 T12S R9E	U25485	9200	3600
MC-6-78	SW $\frac{1}{4}$ Sect 31 T12S R9E	U25484	8500	1850
MC-7-78	NW $\frac{1}{4}$ Sect 31 T12 S R9E	U25484	8700	2550
MC-8-78	SE $\frac{1}{4}$ Sect 31 T12S R9E	U25484	8000	1800
MC-9-78	SE $\frac{1}{4}$ Sect 31 T12S R9E	U25484	8600	1850
MC-10-78	NE $\frac{1}{4}$ Sect 6 T13S R9E	Fee	8500	1950
MC-11-78	NW $\frac{1}{4}$ Sect 5 T13S R9E	Fee	8400	1950
MC-12-78	NE $\frac{1}{4}$ Sect 29 T12S R9E	SL071737	7600	2500

Of the proposed holes MC-78-10 and 11 are located on AEP Fee land. Access to these holes is to be across Federal surface.

Drilling is presently being conducted on previously approved drill sites with five rigs each drilling on a 24-hour basis. Past history indicates that the weather generally turns bad in late September, thus eliminating access to the high country. The drilling in the high country will not be continued after the fall storms start.

Drill site preparation will necessitate the leveling of an area approximately 75' x 200'. A mud pit will be constructed at each site to collect return water and drilling cuttings. The pit will be approximately 12' x 25' and 4' deep. The pits will be filled when the site is regraded upon the completion of the drilling. Mud additives will be used as needed.

Mr. J. W. Moffitt
May 2, 1978
Page 3

Drilling over the past six years has shown that water pressures are not a problem in the area under investigation and only on two occasions have holes intersected an appreciable volume of gas. The drilling rigs are equipped with packers and adequate pumps to seal off either gas or water if encountered.

Prior to abandonment, all holes are cemented to the surface. A metal pipe and identification marker will be placed in the top of the hole. All mud pits will be filled and drill sites will be leveled and seeded upon completion of the holes.

On each of the above drill hole locations, reasonable care will be taken to avoid unnecessary disturbance of the surface and seeding of new roads and drill sites will be done in compliance with specifications of the Bureau of Land Management.

Arrangements for a field inspection of the proposed drill sites can be made either through my office or by contacting Mr. D. Stephens, Geologist, American Electric Power Service Corporation, Helper, Utah. Phone: (801) 472-3411.

Your prompt attention to these sites would be appreciated in that the locations are needed for the continuation of the exploration program and mining activities presently being conducted on the property.

Sincerely,

AMERICAN ELECTRIC POWER
SERVICE CORPORATION



Thomas W. Swinehart
Chief Geologist
Fuel Supply

els

Enclosures: 5 with maps

cc: D. Stephens
L. McCloskey
G. Hartley
P. R. DeMao
File

Utah

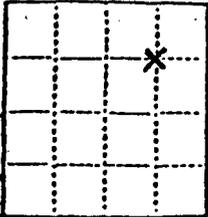
(SUBMIT IN TRIPLICATE)

Land Office

Lease No. SL048442-050115

Unit

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....		SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....		SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

May 1, 1978

Well No. MC-1-78 is located 1000 ft. from [N] line and 700 ft. from [E] line of sec. 4

NE 1/4 NE 1/4 Sect 4 T12S R10E Salt Lake
(or Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Book Cliffs Carbon, Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 7200 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Hole is to be drilled to test the Castle Gate coal seams to a depth of the Aberdeen Sandstone. Depth of 1200 feet to be drilled with rotary and logged using appropriate geophysical logging techniques.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

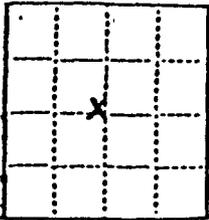
Company American Electric Power Service Corporation

Address P. O. Box 629

Helper, Utah 84526

By W Swinehart

Title Chief Geologist



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Utah
Lease No. SL071737
Unit _____

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....		SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....		SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....			

(INDICATE ABOVE BY CHECK MARK, NATURE OF REPORT, NOTICE, OR OTHER DATA)

May 1, 1978

Well No. MC-3-78 is located 2500 ft. from T12S line and 2500 ft. from R9E line of sec. 26

SE 1/4 NW 1/4 Sect 26 T12S R9E Salt Lake
(Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Book Cliffs Carbon Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 6900 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Hole is to be drilled to test the Castle Gate coal seams to a depth of the Star Point Sandstone. Depth of 2000 feet to be drilled with rotary equipment and logged using appropriate geophysical logging techniques.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company American Electric Power Service Corporation

Address P. O. Box 629

Helper, Utah 84526

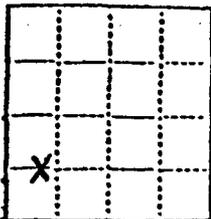
By W. Swinehart

Title Chief Geologist

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Utah
Lease No. U25485
Unit _____



SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....		SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....		SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

May 1, 1978

Well No. MC-4-78 is located 1300 ft. from 1N line and 700 ft. from 1E line of sec. 30
(S) (W)

SW $\frac{1}{4}$ SW $\frac{1}{4}$ Sect 30 T12S R9E Salt Lake
(of Sec. and Sec. No.) (Twp.) (Range) (Meridian)

Book Cliffs Carbon, Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 9100 ft.

DETAILS OF WORK

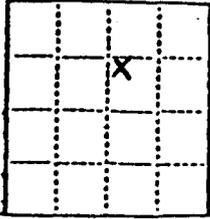
State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Hole is to be drilled to test the Castle Gate coal seams to a depth of the Star Point Sandstone. Depth of 2200 feet will be drilled with rotary equipment. The remaining 800 feet will be cored with NQ wireline equipment.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company American Electric Power Service Corporation
 Address P. O. Box 629
Helper, Utah 84526

By W Swinehart
 Title Chief Geologist



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Utah
Lease No. U25485
Unit _____

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....		SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....		SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

May 1, 19 78

Well No. MC-5-78 is located 1600 ft. from 1/4 N line and 2600 ft. from 1/4 E line of sec. 30
SW 1/4 NE 1/4 Sect 30 T12S R9E Salt Lake
(1/4 Sec. and 1/4 Sec. No.) (Twp.) (Range) (Meridian)
Book Cliffs Carbon Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 9200 ft.

DETAILS OF WORK

State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work

Hole is to be drilled to test the Castle Gate coal seams to a depth of the Star Point Sandstone. Depth of 3600 feet to be drilled with rotary equipment and logged using appropriate geophysical logging techniques.

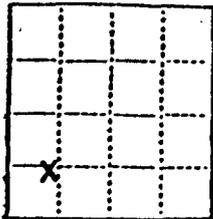
I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company American Electric Power Service Corporation
 Address P. O. Box 629
Helper, Utah 84526
 By [Signature]
 Title Chief Geologist

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Field Office Utah
Lease No. U25484
Unit _____



SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....		SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....		SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....			

(INDICATE ABOVE BY CHECK MARK, NATURE OF REPORT, NOTICE, OR OTHER DATA)

May 1, 19 78

Well No. MC-6-78 is located 1300 ft. from IN S line and 1000 ft. from E W line of sec. 31
SW_{1/4} SW_{1/4} Sect. 31 T12S R9E Salt Lake
(Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Book Cliffs Carbon Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 8500 ft.

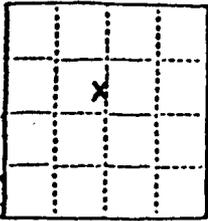
DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Hole to be drilled to test the Castle Gate coal seams to a depth of the Star Point Sandstone.
Depth of 1850 feet to be drilled using NQ wireline equipment.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company American Electric Power Service Corporation
 Address P. O. Box 629
Helper, Utah 84526
 By _____
 Title Chief Geologist



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

and Office Utah
Lease No. U25484
Unit _____

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....		SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....		SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

May 1, 19 78

Well No. MC-7-78 is located 2200 ft. from [N] line and 2700 ft. from [E] line of sec. 31

SE 1/4 NW 1/4 Sect. 31 T12S R9E Salt Lake
(Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Book Cliffs Carbon Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 8700 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Hole is to be drilled to test the Castle Gate coal seams to a depth of the Star Point Sandstone.
Depth of 2550 feet is to be drilled using NQ wireline equipment.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

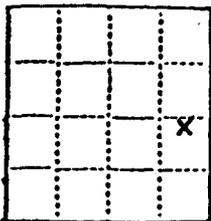
Company American Electric Power Service Corporation
Address P. O. Box 629
Helper, Utah 84526

By W. Swinehart
Title Chief Geologist

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Field Office _____
Lease No. U25484
Unit _____



SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....		SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....		SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

May 1, 19 78

Well No. MG-8-78 is located 2600 ft. from [N] line and 1000 ft. from [E] line of sec. 31

NE 1/4 SE 1/4 Sect 31 T12S R9E Salt Lake
(1/4 Sec. and 1/4 Sec. No.) (Twp.) (Range) (Meridian)
Book Cliffs Carbon Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 8000 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Hole to be drilled to test the Castle Gate coal seams to a depth of the Star Point Sandstone.
Depth of 1800 feet to be drilled using NQ wireline equipment.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company American Electric Power Service Corporation

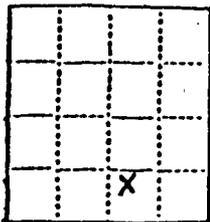
Address P. O. Box 629
Helper, Utah 84526

By W. Swinchart
Title Chief Geologist

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Field Office Utah
Lease No. U25484
Unit



SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	X	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....		SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....		SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

May 1, 1978

Well No. MC-9-78 is located 800 ft. from ^{IN} line and 2000 ft. from ^E line of sec. 31
_S Salt Lake
 SW $\frac{1}{4}$ SE $\frac{1}{4}$ Sect 31 T12S R9E
(Sec. and Sec. No.) (Twp.) (Range) (Meridian)
 Book Cliffs Carbon Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 8600 ft.

DETAILS OF WORK

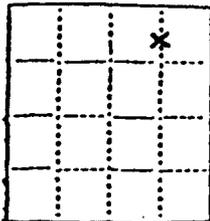
State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work

Hole is to be drilled to test the Castle Gate coal seams to a depth of the Star Point Sandstone.
 Depth of 1850 feet to be drilled using NQ wireline equipment.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company American Electric Power Service Corporation
 Address P. O. Box 629
 Helper, Utah 84526
 By W. Swinchart
 Title Chief Geologist

(SUBMIT IN TRIPLICATE)



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

And Office
Lease No. Fee
Unit

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....		SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
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NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

May 1, 1978

Well No. MC-10-78 is located 700 ft. from [N] line and 200 ft. from [E] line of sec. 6

NW₄ NE₄ Sect 6 T13S R9E Salt Lake
(Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Book Cliffs Carbon Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 8500 ft.

DETAILS OF WORK

State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work

Requesting access from Lease #U25484 to drill hole on Fee land to test the Castle Gate coal seams to a depth of the Star Point Sandstone. Depth of 1950 feet to be drilled using NQ wireline equipment.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company American Electric Power Service Corporation
Address P. O. Box 629
Helper, Utah 84526
By [Signature]
Title Chief Geologist

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office
Lease No. Fee
Unit

X		

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....		SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....		SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

May 1, 19 78

Well No. MC-11-78 is located 100 ft. from N line and 2000 ft. from E line of sec. 5

NE 1/4 NW 1/4 Sect 5 T13S R9E Salt Lake
(Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Book Cliffs Carbon Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 8400 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Requesting access from Lease #U25484 to drill hole on Fee land to test the Castle Gate coal seams to a depth of the Star Point Sandstone. Depth of 1950 feet to be drilled using NQ wireline equipment.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

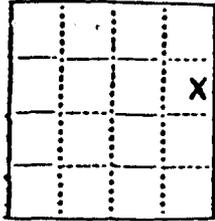
Company American Electric Power Service Corporation
P. O. Box 629
Address

By W. Swinehart

Title Chief Geologist

(SUBMIT IN TRIPLICATE)

Field Office _____ Utah
Lease No. SL071737
Unit _____



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

May 1, 19 78

Well No. MC-12-78 is located 1500 ft. from [N] line and 200 ft. from [E] line of sec. 29
[S] [W]

SE 1/4 NE 1/4 Sect 29 T12S R9E Salt Lake
 (1/4 Sec. and 1/4 Sec. No.) (Twp.) (Range) (Meridian)

Book Cliffs Carbon, Utah
 (Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 7600 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Hole is to be drilled to test the Castle Gate coal seams to a depth of the Star Point Sandstone.
Depth of 2500 feet to be drilled using NQ wireline equipment.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company American Electric Power Service Corporation
 Address P. O. Box 629
Helper, Utah 84526

By W. Swinehart
 Title Chief Geologist