



Celina Akin
Environmental Specialist

2717 County Road 215
Parachute, CO 81635

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RECEIVED

Thursday, October 29, 2015

NOV 02 2015

ENV027.15

GRAND JUNCTION FIELD OFFICE
DIVISION OF
RECLAMATION MINING & SAFETY

Mr. Nathan Wiser 8ENF-UFO
U. S. Environmental Protection Agency
Region VIII
1595 Wynkoop Street
Denver, CO 80202-1129

Dear Mr. Wiser:

All of the American Soda Nahcolite Solution mining wells have been plugged and abandoned. The following table gives you the date that each was plugged. More details on the well strings that were plugged are included in the attached final EPA plugging report forms and the final BLM Sundry notices.

Well ID	String to be Plugged	Date Plugged	Depth to CIBP	Dissolution Surface
20-19	Short String (only)	10/8/2015	1515'	1465'
20-36	Long String	10/13/2015	1785'	1721'
	Short String	10/15/2015	1785'	1721'
20-74	Long String	9/29/2015	1685'	1623'
	Short String	9/24/2015	1685'	1623'
29-27	Long String	9/16/2015	1610'	1560'
	Short String	9/21/2015	1610'	1560'
29-29	Long String	10/19/2015	1685'	1634'
	Short String	10/21/2015	1685'	1634'

All nine well strings were plugged using the tremie method of concrete placement through shallow coil.

Should you have any questions or comments regarding this information please contact me at (970) 285-0406.

Mr. Nathan Wiser
October 29, 2015
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ENV027.15

Sincerely,



Celina Akin
Environmental Specialist

Enclosures: Final EPA Plugging and Abandonment forms Well 20-19, 20-36, 20-74, 29-27, and 29-29
Final BLM Sundry Notice Plugging and Abandonment Well 20-19, 20-36, 20-74, 29-27, and 29-29

Cc: Don Breffle, EPA
Paul Daggett, BLM
Travis Marshall, DRMS

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT-" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other Nacholite Solution Mining	5. Lease Designation and Serial No. Yankee Gulch CO-118328
2. Name of Operator American Soda, L. L. P.	6. If Indian, Allottee or Tribe Name N/A
3. Address and Telephone No. 2717 County Road 215, Parachute, Colorado 81635	7. If Unit or CA, Agreement Designation N/A
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 13,087.01 Easting NW ¼ of NE ¼ of Section 29, T1S, R97W 6 th P.M. 12,774.16 Northing	8. Well Name and No. American Soda L.L.P. 20-36 EPA Class III CO3858-04576
	9. API Well No. 29-29 (Nahcolite)
	10. Field and Pool, or Exploratory Area Central Piceance Creek Basin
	11. County or Parish, State Rio Blanco, Colorado

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment <input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Reports	<input type="checkbox"/> Recompletion <input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input checked="" type="checkbox"/> Plugging Back <input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair <input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing <input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Other <input type="checkbox"/> Dispose Water
	(Note: Report results in multiple completion on Well Completion or Recompletion Report and Log form.)

13. 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.)*

- Well 29-29 dissolution surface at 1634'.
- On 8/20/2004 Rig up Key Energy on well. Nipple down wellhead.
- On 8/23/2004 Pull 2399' (all) of 4 1/2" long string. Set cast iron bridge plug at 1685' on long 7" casing. Pull 2004' (all) of 4 1/2" short string. Set cast iron bridge plug in 7" short string at 1685'. Rig down Key Energy.
- Both strings of well 29-29 passed MIT on 9/10/2008, 8/17/2010, 5/30/2012, and 6/4/2014.
- On 10/21/2015 RACS tripped coil tubing to the cast iron bridge plug at 1685' and pumped 325 sacks of Type G cement, 15.8 #/gallon, 1.15 ft3/sack cement, slurry volume 384 ft3 in short string 7" casing.
- On 10/19/2015 RACS tripped coil tubing to the cast iron bridge plug at 1685' and pumped 325 sacks of Type G cement, 15.8 #/gallon, 1.15 ft3/sack cement, slurry volume 384 ft3 in long string 7" casing.
- Wellhead is cut down and a cap is placed on the cemented casing strings indicating the date of plugging and abandonment and the well identification.

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

Signed David Valverde Title Plant Manager Date October 29, 2015

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

PLUGGING AND ABANDONMENT

NAME AND ADDRESS OF FACILITY
American Soda L.L.P.
27991 County Road 5
Rifle, Co, 81650

NAME AND ADDRESS OF OWNER/OPERATOR
American Soda L.L.P.
2717 County Road 215
Parachute, Co, 81635

LOCATE WELL AND OUTLINE UNIT ON
SECTION PLAT --- 640 ACRES

STATE

COUNTY

PERMIT NUMBER

CO.

Rio Blanco

C03858-04576

N

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W

E

SURFACE LOCATION DESCRIPTION

¼ of NW ¼ of NE ¼ of ¼ of Section 29 Township 1S Range 97W
152' S. and 2,024' W. of NE corner of Section 29, Township 1S, Range 97W 6th P.M.

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT
Surface Location 152' (S) from section corner and 2024' (W) from NE section corner

Elevation Casing Head = 6424' Elevation Ground Level = 6422'
13,087.01 Easting 12,774.16 Northing

TYPE OF AUTHORIZATION

☒ Individual Permit
☐ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

☐ CLASS I
☐ CLASS II
 ☐ Brine Disposal
 ☐ Enhanced Recovery
 ☐ Hydrocarbon Storage
☒ CLASS III (Nahcolite Production Well)
 Side by Side Dual 7" Casing Completion

Well Number 29-29

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT(LB/FT)	TO BE PUT IN WELL(FT)	TO BE LEFT IN WELL(FT)	HOLE SIZE
24"	95# - ERW	0	0- 55'	24"
7"	26# - J-55 & N-80	0	0 - 1888' (short string)	19"
7"	26# -J-55 & N-80	0	0- 2205' (long string)	19"

METHOD OF EMPLACEMENT OF CEMENT PLUGS

☐ The Balance Method

☐ The dump Bailer Method

☐ The Two-Plug Method

☒ Other
Tremie through Coil Tubing Unit

CEMENTING TO PLUG AND ABANDONED DATA

CEMENTING TO PLUG AND ABANDONED DATA	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	7" (Short)	7" (Long)					
Depth to Bottom of Tubing or Drill Pipe (ft.)	1888'	2205'					
Depth to Cast Iron Bridge Plug (ft.)	1685'	1685'					
Sacks of Cement Used (each plug)	325	325					
Slurry Volume Pumped (cu. ft.)	384	384					
Calculated Top of Plug (ft.)	Surface	Surface					
Measured Top of Plug (if tagged ft.)	Surface	Surface					
Slurry Wt. (Lb./Gal.)	15.8	15.8					
Type cement or other material (Class III)	Type G	Type G					

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS WHERE CASING WILL BE VARIED (if any)

[illegible]

10/ 21/ 2015- Dissolution surface at 1634'. Coil tubing placement of cement at bridge plug (1685'). Pumped 325 sacks of Type G, 15.8 pounds/gallon, 1.15 ft³/sack cement in the short string 7" casing. 10/19/2015 – Coil tubing placement of cement at bridge plug (1685'). Pumped 325 sacks of Type G, 15.8 pounds/gallon, 1.15 ft³/sack cement in the long string 7" casing.

CERTIFICATION

I certify under the penalty of the law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

NAME AND OFFICIAL TITLE (Please type or print)
David Valvoda Plant Manager

SIGNATURE

SIGNATURE David Valverde

DATE SIGNED
October 29, 2015

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT-" for such proposals

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.
Yankee Gulch CO-118328

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit or CA, Agreement Designation
N/A

8. Well Name and No.
American Soda L.L.P. 20-36
EPA Class III CO3858-04574

9. API Well No.
29-27 (Nahcolite)

10. Field and Pool, or Exploratory Area
Central Piceance Creek Basin

11. County or Parish, State
Rio Blanco, Colorado

SUBMIT IN TRIPLICATE

1. Type of Well
☐ Oil Well ☐ Gas Well ☒ Other Nahcolite Solution Mining

2. Name of Operator
American Soda, L. L. P.

3. Address and Telephone No.
2717 County Road 215, Parachute, Colorado 81635

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
14,342.70 Easting NE ¼ of NE ¼ of Section 29, T1S, R97W 6th P.M.
11,812.18 Northing

12. CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Reports	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input checked="" type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

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

13. 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.)*

- Well 29-27 dissolution surface at 1560'.
- On 7/27/2004 Rig up Key Energy on well. Pull 2288' (all) of 4 1/2" long string. Set cast iron bridge plug at 1610' on long 7" casing.
- On 7/28/2004 Pull 1887' (all) of 4 1/2" short string. Set cast iron bridge plug in 7" short string at 1610'. Rig down Key Energy.
- Both strings of well 29-27 passed MIT on 9/11/2008, 8/17/2010, 5/31/2012, and 6/5/2014.
- On 9/21/2015 RACS tripped coil tubing to the cast iron bridge plug at 1610' and pumped 311 sacks of Type G cement, 15.8 #/gallon, 1.15 ft3/sack cement, slurry volume 367 ft3 in short string 7" casing.
- On 9/16/2015 RACS tripped coil tubing to the cast iron bridge plug at 1610' and pumped 311 sacks of Type G cement, 15.8 #/gallon, 1.15 ft3/sack cement, slurry volume 367 ft3 in long string 7" casing.
- Wellhead is cut down and a cap is placed on the cemented casing strings indicating the date of plugging and abandonment and the well identification.

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

Signed David Nahoda Title Plant Manager Date October 29, 2015

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

PLUGGING AND ABANDONMENT

NAME AND ADDRESS OF FACILITY
American Soda L.L.P.
27991 County Road 5
Rifle, Co, 81650

NAME AND ADDRESS OF OWNER/OPERATOR
American Soda L.L.P.
2717 County Road 215
Parachute, Co, 81635

LOCATE WELL AND OUTLINE UNIT ON
SECTION PLAT --- 640 ACRES

STATE
CO.

COUNTY

Rio Blanco

PERMIT NUMBER
C03858-04563

N

W

E

 \overline{x}

S

SURFACE LOCATION DESCRIPTION

¼ of NW ¼ of NE ¼ of ¼ of Section 29 Township 1S Range 97W
1067' N. and 1232' E. of SW corner of Section 20, Township 1S, Range 97W 6th P.M.

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT
Surface Location 868' (N) from section corner and 2296' (E) from section corner

Elevation Casing Head = 6416' Elevation Ground Level = 6414'
12,294.33 Easting 13,508.80 Northing

TYPE OF AUTHORIZATION

X Individual Permit
☐ Area Permit
☐ Rule

Number of Wells 1

WELL ACTIVITY

CLASS I
☐ CLASS II
 ☐ Brine Disposal
 ☐ Enhanced Recovery
 ☐ Hydrocarbon Storage
☒ CLASS III (Nahcolite Production Well)
Side by Side Dual 7" Casing Completion

Lease Name Yankee Gulch

Well Number 20-74

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT(LB/FT)	TO BE PUT IN WELL(FT)	TO BE LEFT IN WELL(FT)	HOLE SIZE
24"	95# - ERW	0	0- 71'	24"
7"	26# - J-55 & N-80	0	0 - 1913' (short string)	19"
7"	26# -J-55 & N-80	0	0- 2228' (long string)	19"

METHOD OF EMPLACEMENT OF CEMENT PLUGS

☐ The Balance Method

☐ The dump Bailer Method

☐ The Two-Plug Method

☒ Other
Tremie through Coil Tubing Unit

CEMENTING TO PLUG AND ABANDONED DATA

CEMENTING TO PLUG AND ABANDONED DATA	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	7" (Short)	7" (Long)					
Depth to Bottom of Tubing or Drill Pipe (ft.)	1913'	2228'					
Depth to Cast Iron Bridge Plug (ft.)	1685'	1685'					
Sacks of Cement Used (each plug)	325	325					
Slurry Volume Pumped (cu. ft.)	384	384					
Calculated Top of Plug (ft.)	Surface	Surface					
Measured Top of Plug (if tagged ft.)	Surface	Surface					
Slurry Wt. (Lb./Gal.)	15.8	15.8					
Type cement or other material (Class III)	Type G	Type G					

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To

9/ 24/ 2015- Dissolution surface at 1623'. Coil tubing placement of cement at bridge plug (1685'). Pumped 325 sacks of Type G, 15.8 pounds/gallon, 1.15 ft³/sack cement in the short string 7" casing. 9/29/2015 – Coil tubing placement of cement at bridge plug (1685'). Pumped 325 sacks of Type G, 15.8 pounds/gallon, 1.15 ft³/sack cement in the long string 7" casing.

CERTIFICATION

I certify under the penalty of the law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

NAME AND OFFICIAL TITLE (Please type or print)
David Valvoda Plant Manager

SIGNATURE

SIGNATURE
David Valwood

DATE SIGNED
October 29, 2015

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT-" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other Nacholite Solution Mining	5. Lease Designation and Serial No. Yankee Gulch CO-118328
2. Name of Operator American Soda, L. L. P.	6. If Indian, Allottee or Tribe Name N/A
3. Address and Telephone No. 2717 County Road 215, Parachute, Colorado 81635	7. If Unit or CA, Agreement Designation N/A
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 12,294.33 Easting SE ¼ of SW ¼ of Section 20, T1S, R97W 6 th P.M. 13,508.80 Northing	8. Well Name and No. American Soda L.L.P. 20-36 EPA Class III CO3858-04563
	9. API Well No. 20-74 (Nahcolite)
	10. Field and Pool, or Exploratory Area Central Piceance Creek Basin
	11. County or Parish, State Rio Blanco, Colorado

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Reports	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input checked="" type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Other	<input type="checkbox"/> Dispose Water
	(Note: Report results in multiple completion on Well Completion or Recompletion Report and Log form.)	

13. 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.)*

- Well 20-74 dissolution surface at 1623'.
- On 8/18/2004 Rig up Key Energy on well. Pull 2430' (all) of 4 1/2" long string. Set cast iron bridge plug at 1685' on long 7" casing.
- On 8/19/2004 Pull 2250' (all) of 4 1/2" short string. Set cast iron bridge plug in 7" short string at 1685'. Rig down Key Energy.
- Both strings of well 20-74 passed MIT on 9/10/2008, 8/16/2010, 5/30/2012, and 6/5/2014.
- On 9/24/2015 RACS tripped coil tubing to the cast iron bridge plug at 1685' and pumped 325 sacks of Type G cement, 15.8 #/gallon, 1.15 ft3/sack cement, slurry volume 384 ft3 in short string 7" casing.
- On 9/29/2015 RACS tripped coil tubing to the cast iron bridge plug at 1685' and pumped 325 sacks of Type G cement, 15.8 #/gallon, 1.15 ft3/sack cement, slurry volume 384 ft3 in long string 7" casing.
- Wellhead is cut down and a cap is placed on the cemented casing strings indicating the date of plugging and abandonment and the well identification.

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

Signed David Nahodg Title Plant Manager Date October 29, 2015

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

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SUBMIT IN TRIPLICATE

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other Nacholite Solution Mining	5. Lease Designation and Serial No. Yankee Gulch CO-118328
2. Name of Operator American Soda, L. L. P.	6. If Indian, Allottee or Tribe Name N/A
3. Address and Telephone No. 2717 County Road 215, Parachute, Colorado 81635	7. If Unit or CA, Agreement Designation N/A
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 11,197.43 Easting SW ¼ of SW ¼ of Section 20, T1S, R97W 6 th P.M. 13,704.50 Northing	8. Well Name and No. American Soda L.L.P. 20-36 EPA Class III CO3858-04562
	9. API Well No. 20-36 (Nahcolite)
	10. Field and Pool, or Exploratory Area Central Piceance Creek Basin
	11. County or Parish, State Rio Blanco, Colorado

12. CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Reports	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input checked="" type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Other	<input type="checkbox"/> Dispose Water
	(Note: Report results in multiple completion on Well Completion or Recompletion Report and Log form.)	

13. 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.)*

- Well 20-36 dissolution surface at 1721'.
- On 8/31/2004 Rig up Key Energy on well. Pull 2537' (all) of 4 1/2" long string. Set cast iron bridge plug at 1785' on long 7" casing.
- On 9/1/2004 Cut 4 1/2" short string at 1800'. Pull 1800' of 4 1/2" short string. Set cast iron bridge plug in 7" short string at 1785'. Rig down Key Energy and move to next location.
- Both strings of well 20-36 passed MIT on 9/10/2008, 8/16/2010, 5/30/2012, and 6/4/2014.
- On 10/15/2015 RACS tripped coil tubing to the cast iron bridge plug at 1785' and pumped 343 sacks of Type G cement, 15.8 #/gallon, 1.15 ft3/sack cement, slurry volume 405 ft3 in short string 7" casing.
- On 10/13/2015 RACS tripped coil tubing to the cast iron bridge plug at 1785' and pumped 343 sacks of Type G cement, 15.8 #/gallon, 1.15 ft3/sack cement, slurry volume 405 ft3 in long string 7" casing.
- Wellhead is cut down and a cap is placed on the cemented casing strings indicating the date of plugging and abandonment and the well identification.

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

Signed David Nahoda Title Plant Manager Date October 29, 2015

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*See Instruction on Reverse Side

PLUGGING AND ABANDONMENT

American Soda L.L.P.
27991 County Road 5
Rifle, Co. 81650

American Soda L.L.P.
2717 County Road 215
Parachute, Co. 81635

Rio Blanco

C03858-04562

N

1/4 of NW 1/4 of NE 1/4 of Section 29 Township 1S Range 97W
1067' N. and 1232' E. of SW corner of Section 20, Township 1S, Range 97W 6th P.M.

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT
Surface Location 464' (N) from section corner and 553' (W) from section corner

Elevation Casing Head = 6484' Elevation Ground Level = 6482'
11.197.43 Easting 13.704.50 Northing

TYPE OF AUTHORIZATION

WELL ACTIVITY

☒ Individual Permit
☐ Area Permit
☐ Rule

Number of Wells 1

CLASS I

☐ CLASS II

☐ Brine Disposal

☐ Enhanced Recovery

 Hydrocarbon Storage

☒ CLASS III (Nahcolite Production Well)
Side by Side Dual 7" Casing Completion

Lease Name Yankee Gulch

Well Number 20-36

CASING AND TUBING RECORD AFTER PLUGGING

METHOD OF EMPLACEMENT OF CEMENT PLUGS

SIZE	WT(LB/FT)	TO BE PUT IN WELL(FT)	TO BE LEFT IN WELL(FT)	HOLE SIZE
24"	95# - ERW	0	0- 71'	24"
7"	26# - J-55 & N-80	0	0 - 2012' (short string)	19"
7"	26# -J-55 & N-80	0	0- 2323' (long string)	19"

☐ The Balance Method

☐ The dump Bailer Method

☐ The Two-Plug Method

☒ Other
Tremie through Coil Tubing Unit

CEMENTING TO PLUG AND ABANDONED DATA

CEMENTING TO PLUG AND ABANDONED DATA	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	7" (Short)	7" (Long)					
Depth to Bottom of Tubing or Drill Pipe (ft.)	2012'	2323'					
Depth to Cast Iron Bridge Plug (ft.)	1785'	1785'					
Sacks of Cement Used (each plug)	343	343					
Slurry Volume Pumped (cu. ft.)	405	405					
Calculated Top of Plug (ft.)	Surface	Surface					
Measured Top of Plug (if tagged ft.)	Surface	Surface					
Slurry Wt. (Lb./Gal.)	15.8	15.8					
Type cement or other material (Class III)	Type G	Type G					

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS WHERE CASING WILL BE VARIED (if any)

[illegible]

10/15/ 2015- Dissolution surface at 1721'. Coil tubing placement of cement at bridge plug (1785'). Pumped 343 sacks of Type G, 15.8 pounds/gallon, 1.15 ft³/sack cement in the short string 7" casing. 10/13/2015 – Coil tubing placement of cement at bridge plug (1785'). Pumped 343 sacks of Type G, 15.8 pounds/gallon, 1.15 ft³/sack cement in the long string 7" casing.

CERTIFICATION

I certify under the penalty of the law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

David Valvoda Plant Manager

SIGNATURE

Land Use

October 29, 2015

PLUGGING AND ABANDONMENT

American Soda L.L.P.
27991 County Road 5
Rifle, Co. 81650

NAME AND ADDRESS:
American Soda L.L.P.
2717 County Road 215
Parachute, Co. 81635

CO.

Rio Blanco

C03858-04556

N

463.52' N. and 553.35' W. of SE corner of Section 20, Township 15, Range 97W 6th P.M.

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT
Surface Location 464' (N) from section corner and 553' (W) from section corner

Elevation Casing Head = 6297' Elevation Ground Level = 6295'
14,558.19 Easting 13,383.35 Northing

TYPE OF AUTHORIZATION

WELL ACTIVITY

☒ Individual Permit
☐ Area Permit
☐ Rule

Number of Wells 1

☐ CLASS I
☐ CLASS II
 ☐ Brine Disposal
 ☐ Enhanced Recovery
 ☐ Hydrocarbon Storage
☒ CLASS III (Nahcolite Production Well)
 Side by Side Dual 7" Casing Completion

Lease Name Yankee Gulch

Well Number 20-19

CASING AND TUBING RECORD AFTER PLUGGING

METHOD OF EMPLACEMENT OF CEMENT PLUGS

SIZE	WT(LB/FT)	TO BE PUT IN WELL(FT)	TO BE LEFT IN WELL(FT)	HOLE SIZE
24"	95# - ERW	0	0- 80'	24"
7"	26# - J-55 & N-80	0	0 - 1712' (short string)	19"
7"	26# -J-55 & N-80	0	0- 2027" (long string)	19"

☐ The Balance Method
☐ The dump Bailer Method
☐ The Two-Plug Method
☒ Other
 Tremie through Coil Tubing Unit

CEMENTING TO PLUG AND ABANDONED DATA	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	7" (Short)	7" (Long)					
Depth to Bottom of Tubing or Drill Pipe (ft.)	1712'	2027'					
Depth to Cast Iron Bridge Plug (ft.)	1515'	1515'					
Sacks of Cement Used (each plug)	293	280					
Slurry Volume Pumped (cu. ft.)	346	322					
Calculated Top of Plug (ft.)	Surface	Surface					
Measured Top of Plug (if tagged ft.)	Surface	Surface					
Slurry Wt. (Lb./Gal.)	15.8	15.8					
Type cement or other material (Class III)	Type G	Type G					

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS WHERE CASING WILL BE VARIED (if any)

[illegible]

October 8, 2015- Dissolution surface at 1465'. 12/17/2008 - Long string of well plugged and abandoned to Cast Iron Bridge Plug set at 1515'. Coil tubing placement of cement at bridge plug (1515'). Pumped 280 sacks of Type G, 15.8 pounds/gallon, 1.15 ft³/sack cement in the long string 7" casing. 10/8/2015 - Pumped 293 sacks of Type G, 15.8 pounds/gallon, 1.15 ft³/sack cement in the short string 7" casing. Short string of well plugged and abandoned.

CERTIFICATION

I certify under the penalty of the law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

NAME AND OFFICIAL TITLE (Please type or print)

David Valvoda Plant Manager

SIGNATURE

SIGNATURE David Valadez

DATE SIGNED _____

October 29, 2015

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT-" for such proposals

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.
Yankee Gulch CO-118328

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit or CA, Agreement Designation
N/A

8. Well Name and No.
American Soda L.L.P. 20-19
EPA Class III CO3858-04556

9. API Well No.
20-19 (Nahcolite)

10. Field and Pool, or Exploratory Area
Central Piceance Creek Basin

11. County or Parish, State
Rio Blanco, Colorado

SUBMIT IN TRIPLICATE

1. Type of Well
☐ Oil Well ☐ Gas Well ☒ Other Nacholite Solution Mining

2. Name of Operator
American Soda, L. L. P.

3. Address and Telephone No.
2717 County Road 215, Parachute, Colorado 81635

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
14,558.19 Easting SE ¼ of SE ¼ of Section 20, T1S, R97W 6th P.M.
13,383.35 Northing

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Reports	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input checked="" type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Other	<input type="checkbox"/> Dispose Water
	(Note: Report results in multiple completion on Well Completion or Recompletion Report and Log form.)	

13. 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.)*

- Well 20-19 dissolution surface at 1465'.
- On 7/24/2004 Rig up Key Energy on well and nipple down wellhead.
- 7/26/2004 Pull 2204' (all) of 4 1/2" long string. Set cast iron bridge plug at 1515' on long 7" casing. Pull 1816' (all) of 4 1/2" short string. Set cast iron bridge plug at 1515' on short 7" casing. Rig down Key Energy and move to next location.
- On 9/11/2008 Well 20-19 7" long string failed MIT.
- On 12/17/2008 - Halliburton tripped coil tubing to the cast iron bridge plug at 1515' and pumped 280 sacks of Type G cement, 15.8 #/gallon, 1.15 ft³/sack cement, slurry volume 322 ft³ in short string 7" casing.
- On 10/8/2015 - RACS tripped coil tubing to the cast iron bridge plug at 1515' and pumped 293 sacks of Type G cement, 15.8 #/gallon, 1.15 ft³/sack cement, slurry volume 346 ft³ in short string 7" casing.
- Wellhead is cut down and a cap is placed on the casing strings indicating the date of plugging and abandonment and the well identification.

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

Signed David Nahode Title Plant Manager Date October 29, 2015

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any: