

File Original with DWR

Page 1 of 8

Owner's Well Number Cluster A Deep Well

Date Work Began 06/01/2011 Date Work Ended 6/4/2011

Local Permit Agency San Bernardino County DPH EHS

Permit Number 2011040169 Permit Date 4/5/11

State of California

Well Completion Report

Refer to Instruction Pamphlet

No. **e0130325**

DWR Use Only – Do Not Fill In

State Well Number/Site Number											
Latitude						Longitude					
APN/TRS/Other											

Geologic Log

Orientation ☒ Vertical ☐ Horizontal ☐ Angle Specify _____
Drilling Method Sonic Drilling Fluid _____

Depth from Surface		Description
Feet	to Feet	Describe material, grain size, color, etc
0		(ML) 10YR 7/3 Very pale brown silt with some cobbles (<1/4")
2.5		(SW) 10YR 7/6 Yellow fine-coarse sand with some gravel
4.5		(SW) 10YR 6/3 Pale brown fine-medium coarse sand with minor silt
5.5		(SM) 10YR 6/8 Brownish yellow silty fine sand with black lignite inclusions
6.0		(SW) 10YR 6/3 Pale brown fine-medium coarse sand with some cobbles bottom 0.5'
8.0		(SC) 10YR 4/3 Brown clayey sand (30/70)
10.0		(SW) 10YR 6/4 Light yellowish brown medium coarse-coarse sand with some gravel and cobbles (<1/4")
10.8		(SW) 10YR 7/3 Very pale brown fine-coarse sand with some gravel, more gravel and cobbles @12.5-13.5'
17.5		(SC) 10YR 5/3 Brown clayey, fine-medium coarse sand (30/70)
19.0		(SP) 10YR 5/3 Brown medium coarse sand
19.3		(SM) 10YR 4/3 Brown firm silty fine sand (50/50)
20.0		(SW) 10YR 5/3 Brown fine-medium coarse sand with minor silt
22.0		(ML) 10YR 5/3 Brown firm sandy silt (20/80)
23.5		(SM) 10YR 5/4 Yellowish brown silty sand (20/80) increasing coarse sand bottom 0.5'
25.5		(CL) 10YR 5/3 Brown fine-medium coarse sandy clay (20/80)
26.0		(SC-SM) 10YR 5/3 Brown clayey, silty fine-medium coarse sand (15/15/70)

Total Depth of Boring 201 Feet

Total Depth of Completed Well 200 Feet

Well Owner

Name California Department of Fish and Game
Mailing Address 407 W. Line Street
City Bishop State CA Zip 93514

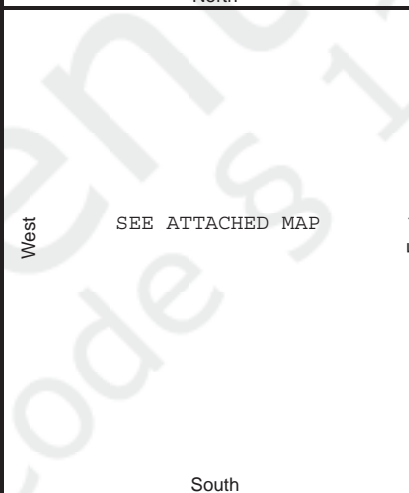
Well Location

Address Camp Cady, Mojave Trail
City Newberry Springs County San Bernardino
Latitude 34 56 5 N Longitude 116 37 13 W
Deq. Min. Sec. Deq. Min. Sec.
Datum NAD83 Decimal Lat. 34.934695 Decimal Long. -116.6201
APN Book 0541 Page 011 Parcel 19
Township 10N Range 03E Section 25

Location Sketch

(Sketch must be drawn by hand after form is printed.)

North



South

Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. Please be accurate and complete.

Activity

- ☒ New Well
☐ Modification/Repair
☐ Deepen
☐ Other _____
☐ Destroy
Describe procedures and materials under "GEOLOGIC LOG"

Planned Uses

- ☐ Water Supply
☐ Domestic ☐ Public
☐ Irrigation ☐ Industrial
☐ Cathodic Protection
☐ Dewatering
☐ Heat Exchange
☐ Injection
☒ Monitoring
☐ Remediation
☐ Sparging
☐ Test Well
☐ Vapor Extraction
☐ Other _____

Water Level and Yield of Completed Well

Depth to first water _____ (Feet below surface)
Depth to Static _____
Water Level 22 (Feet) Date Measured 06/04/2011
Estimated Yield * _____ (GPM) Test Type _____
Test Length _____ (Hours) Total Drawdown _____ (Feet)
*May not be representative of a well's long term yield.

Casings

Depth from Surface	Borehole Diameter	Type	Material	Wall Thickness	Outside Diameter	Screen Type	Slot Size if Any
Feet	to Feet	Inches		Inches	Inches		Inches
0	175	8	Blank	PVC Sch. 80	.276	2.75	
175	195	8	Screen	PVC Sch. 80	.276	2.75	Milled Slots 0.020
195	200	8	Blank	PVC Sch. 80	.276	2.75	

Annular Material

Depth from Surface	Fill	Description
Feet	to Feet	
0	2	Cement Concrete
2	145	Cement Cement/bent. grout
145	170	Bentonite Hydrated pellets
170	201	Filter Pack #2/12 graded sand

Attachments

- ☐ Geologic Log
☐ Well Construction Diagram
☐ Geophysical Log(s)
☐ Soil/Water Chemical Analyses
☒ Other Detailed Site Map

Attach additional information, if it exists.

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief
Name Boart Longyear Company
Person, Firm or Corporation
1333 W. 9th Street Upland CA 91786
Address City State Zip
Signed _____ Date Signed _____
C-57 Licensed Water Well Contractor C-57 License Number

File Original with DWR

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Latitude						Longitude					
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Geologic Log

Orientation ☒ Vertical ☐ Horizontal ☐ Angle Specify _____

Drilling Method Sonic Drilling Fluid _____

Depth from Surface

Description

Feet	to Feet	Describe material, grain size, color, etc
26.5		(SM-SC) 10YR 5/3 Brown silty, fine-coarse sand with minor clay
27.5		(SW) 10YR 6/4 Light yellowish brown fine-coarse sand
32.5		(ML) 10YR 5/3 Brown dense silt
35.0		(SW-SM) 10YR 6/3 Pale brown fine-medium coarse sand with minor silt
35.5		(SC) 10YR 6/3 Pale brown fine-medium coarse sandy clay (30/30/40)
36.0		(CL) 10YR 6/2 Light brownish gray clay
37.0		(SP) 10YR 6/3 Pale brown fine sand
38.0		(SW) 10YR 6/4 Light yellowish brown fine-coarse sand
45.5		(SM) 10YR 5/3 Brown silty sand (40/50) with minor clay (10)
46.0		(ML) 10YR 5/3 Brown fine sandy silt (40/60)
51.0		(SW) 10YR 6/4 Light yellowish brown fine-coarse sand
51.3		(ML) 10YR 6/4 Light yellowish brown fine-coarse sandy silt (20/80)
51.8		(CL) 10YR 5/3 Brown fine-coarse sandy clay (40/60)
52.3		(SM-SC) 10YR 6/4 Light yellowish brown silty, clayey fine-medium coarse sand (25/25/50)
53.7		(SM) 10YR 6/4 Light yellowish brown silty fine sand (30/70)
55.0		(SW) 10YR 6/6 brownish yellow fine-coarse sand
57.0		(SM) 10YR 5/4 Brownish yellow silty fine-medium coarse sand (40/60)

Total Depth of Boring 201 Feet

Total Depth of Completed Well 200 Feet

Well Owner

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Well Location

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Datum NAD83 Decimal Lat. 34.934695 Decimal Long. -116.6201

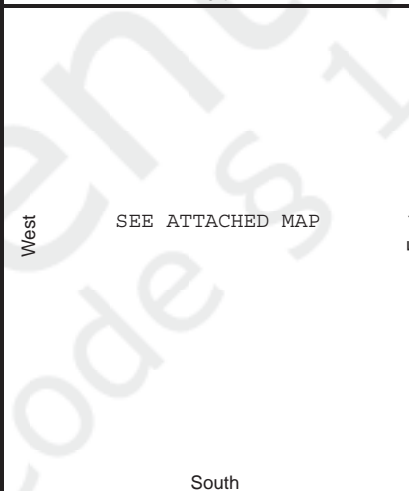
APN Book 0541 Page 011 Parcel 19

Township 10N Range 03E Section 25

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North



South

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Activity

- ☒ New Well
☐ Modification/Repair
☐ Deepen
☐ Other _____
☐ Destroy
Describe procedures and materials under "GEOLOGIC LOG"

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☐ Domestic ☐ Public
☐ Irrigation ☐ Industrial
☐ Cathodic Protection
☐ Dewatering
☐ Heat Exchange
☐ Injection
☒ Monitoring
☐ Remediation
☐ Sparging
☐ Test Well
☐ Vapor Extraction
☐ Other _____

Water Level and Yield of Completed Well

Depth to first water _____ (Feet below surface)

Depth to Static _____

Water Level 22 (Feet) Date Measured 06/04/2011

Estimated Yield * _____ (GPM) Test Type _____

Test Length _____ (Hours) Total Drawdown _____ (Feet)

*May not be representative of a well's long term yield.

Casings

Depth from Surface Feet to Feet	Borehole Diameter (Inches)	Type	Material	Wall Thickness (Inches)	Outside Diameter (Inches)	Screen Type	Slot Size if Any (Inches)
0	175	8	Blank	PVC Sch. 80	.276	2.75	
175	195	8	Screen	PVC Sch. 80	.276	2.75	Milled Slots
195	200	8	Blank	PVC Sch. 80	.276	2.75	

Annular Material

Depth from Surface Feet to Feet	Fill	Description
0	2	Cement
2	145	Cement
145	170	Bentonite
170	201	Filter Pack
		#2/12 graded sand

Attachments

- ☐ Geologic Log
☐ Well Construction Diagram
☐ Geophysical Log(s)
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☒ Other Detailed Site Map

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Geologic Log

Orientation ☒ Vertical ☐ Horizontal ☐ Angle Specify _____

Drilling Method Sonic Drilling Fluid _____

Depth from Surface

Description

Feet	to Feet	Describe material, grain size, color, etc
58.5		(SW) 10YR 6/4 Light yellowish brown fine-coarse sand
60.0		(CL) 10YR 5/3 Brown silty fine sandy clay (20/20/60)
61.5		(SM/SC) 10YR 6/4 Light yellowish brown silty, clayey fine-coarse sand (20/10/70)
61.8		(SM-SC) 10YR 5/3 Brown clayey, silty fine-coarse sand (30/20/50)
62.5		(CL) 10YR 5/3 Brown fine-medium coarse sandy clay (30/70)
65.0		(CL) 10YR 5/3 Brown silty clay (20/80)
67.5		(SP-SM) 10YR 6/3 Pale brown silty fine sand (10/90)
69.5		(ML) 10YR 5/3 Brown clayey fine sandy silt (30/20/50)
70.0		(CL) 10YR 5/3 Brown silty clay (40/60)
71.3		(SP-SM) 10YR 6/3 Pale brown silty fine sand (30/70)
72.5		(SC) 10YR 6/3 Pale brown clayey fine-coarse sand (30/70)
75.5		(CL) 10YR 4/3 Brown clay
75.8		(SW-SM) 10YR 6/4 Light yellowish brown fine-coarse sand with minor silt
79.6		(CL) 10YR 5/3 Brown clay
80.0		(SM) 10YR 5/3 Brown silty fine sand (20/80)
81.5		(SC) 10YR 5/3 Brown clayey fine-medium coarse sand (40/60)
82.0		(CL) 10YR 5/3 Brown fine-medium coarse sandy clay (40/60)

Total Depth of Boring 201 Feet

Total Depth of Completed Well 200 Feet

Well Owner

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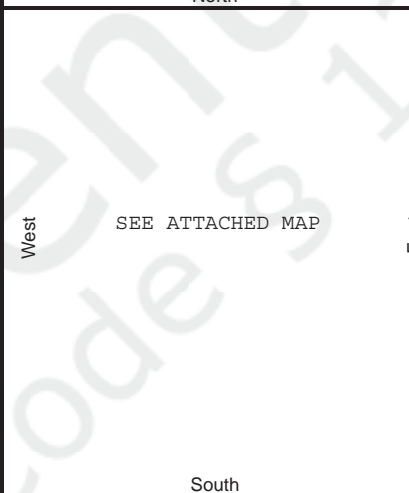
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Township 10N Range 03E Section 25

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☐ Other _____
☐ Destroy
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☐ Injection
☒ Monitoring
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☐ Sparging
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☐ Vapor Extraction
☐ Other _____

Water Level and Yield of Completed Well

Depth to first water _____ (Feet below surface)

Depth to Static _____

Water Level 22 (Feet) Date Measured 06/04/2011

Estimated Yield * _____ (GPM) Test Type _____

Test Length _____ (Hours) Total Drawdown _____ (Feet)

*May not be representative of a well's long term yield.

Casings

Depth from Surface Feet to Feet	Borehole Diameter (Inches)	Type	Material	Wall Thickness (Inches)	Outside Diameter (Inches)	Screen Type	Slot Size if Any (Inches)
0	175	8	Blank	PVC Sch. 80	.276	2.75	
175	195	8	Screen	PVC Sch. 80	.276	2.75	Milled Slots 0.020
195	200	8	Blank	PVC Sch. 80	.276	2.75	

Annular Material

Depth from Surface Feet to Feet	Fill	Description
0	2	Cement Concrete
2	145	Cement Cement/bent. grout
145	170	Bentonite Hydrated pellets
170	201	Filter Pack #2/12 graded sand

Attachments

- ☐ Geologic Log
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☒ Other Detailed Site Map

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State of California

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State Well Number/Site Number											
Latitude						Longitude					
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Geologic Log

Orientation ☒ Vertical ☐ Horizontal ☐ Angle Specify _____

Drilling Method Sonic Drilling Fluid _____

Depth from Surface

Description

Feet	to Feet	Describe material, grain size, color, etc
83.5		(SW-SC/SM) 10YR 6/4 Light yellowish brown fine-coarse sand with minor silt/clay
85.0		(SM) 10YR 5/3 Brown silty fine sand (40/60)
87.0		(CL) 10YR 5/3 Brown silty clay (20/80)
87.3		(CL) 10YR 4/1 Dark gray clay
87.5		(CL) GLEY 4/1 Dark greenish gray silty fine sand (25/75)
90.0		(CL) GLEY 4/1 Dark greenish gray clay
95.0		(SW-SM) GLEY 4/1 Dark greenish gray fine-medium coarse sand with minor silt
97.5		(SC-SM) GLEY 4/1 Dark greenish gray clayey, silty fine-medium coarse sand (30/30/40)
102.0		(SM) GLEY 4/1 Dark greenish gray clayey silt (40/60)
102.5		(CL) GLEY 4/1 Dark greenish gray clay
104.0		(SM-SC) GLEY 4/1 Dark greenish gray silty, clayey fine-medium coarse sand (30/10/60)
105.0		(SW) GLEY 4/1 Dark greenish gray medium coarse-coarse sand with some gravel
106.0		(CL) GLEY 4/1 Dark greenish gray clay
106.8		(SP) GLEY 4/1 Dark greenish gray fine-medium coarse sand
107.5		(CL) GLEY 4/1 Dark greenish gray fine-medium coarse sandy silty clay (30/30/40)
108.3		(SP) GLEY 4/1 Dark greenish gray fine sand
109.0		(CL) GLEY 4/1 Dark greenish gray clay
110.0		(SP) GLEY 4/1 Dark greenish gray fine sand
112.0		(SM) GLEY 4/1 Dark greenish gray silty fine sand (40/60)

Total Depth of Boring 201 Feet

Total Depth of Completed Well 200 Feet

Well Owner

Name California Department of Fish and Game

Mailing Address 407 W. Line Street

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Well Location

Address Camp Cady, Mojave Trail

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Latitude 34 56 5 N Longitude 116 37 13 W
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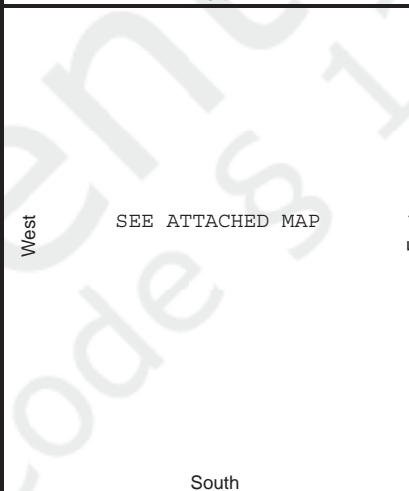
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Township 10N Range 03E Section 25

Location Sketch

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North



South

Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. Please be accurate and complete.

Activity

- ☒ New Well
☐ Modification/Repair
☐ Deepen
☐ Other _____
☐ Destroy
Describe procedures and materials under "GEOLOGIC LOG"

Planned Uses

- ☐ Water Supply
☐ Domestic ☐ Public
☐ Irrigation ☐ Industrial
☐ Cathodic Protection
☐ Dewatering
☐ Heat Exchange
☐ Injection
☒ Monitoring
☐ Remediation
☐ Sparging
☐ Test Well
☐ Vapor Extraction
☐ Other _____

Water Level and Yield of Completed Well

Depth to first water _____ (Feet below surface)

Depth to Static _____

Water Level 22 (Feet) Date Measured 06/04/2011

Estimated Yield * _____ (GPM) Test Type _____

Test Length _____ (Hours) Total Drawdown _____ (Feet)

*May not be representative of a well's long term yield.

Casings

Depth from Surface Feet to Feet	Borehole Diameter (Inches)	Type	Material	Wall Thickness (Inches)	Outside Diameter (Inches)	Screen Type	Slot Size if Any (Inches)
0	175	8	Blank	PVC Sch. 80	.276	2.75	
175	195	8	Screen	PVC Sch. 80	.276	2.75	Milled Slots
195	200	8	Blank	PVC Sch. 80	.276	2.75	

Annular Material

Depth from Surface Feet to Feet	Fill	Description
0	2	Cement
2	145	Cement
145	170	Bentonite
170	201	Filter Pack
		#2/12 graded sand

Attachments

- ☐ Geologic Log
☐ Well Construction Diagram
☐ Geophysical Log(s)
☐ Soil/Water Chemical Analyses
☒ Other Detailed Site Map

Attach additional information, if it exists.

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Geologic Log

Orientation ☒ Vertical ☐ Horizontal ☐ Angle Specify _____

Drilling Method Sonic Drilling Fluid _____

Depth from Surface

Description

Feet to Feet Describe material, grain size, color, etc

113.5		(CL) GLEY 4/1 Dark greenish gray silty clay (20/80)
114.0		(SM) GLEY 4/1 Dark greenish gray silty fine-medium coarse sand (20/80)
116.0		(CL) GLEY 4/1 Dark greenish gray silty clay (20/80)
120.0		(SM) GLEY 4/1 Dark greenish gray silty fine-medium coarse sand (30/70)
122.5		(SW) GLEY 4/1 Dark greenish gray fine-coarse sand
125.0		(CL) GLEY 4/1 Dark greenish gray clay
125.8		(CL) GLEY 4/1 Dark greenish gray fine-medium coarse sandy clay (30/70)
127.0		(SP) GLEY 4/1 Dark greenish gray fine-medium coarse sand
127.5		(CL) GLEY 4/1 Dark greenish gray clay
130.0		(SM-SC) GLEY 4/1 Dark greenish gray silty clayey fine sand (30/20/50)
131.0		(CL) GLEY 4/1 Dark greenish gray clay
135.0		(SM-SC) GLEY 4/1 Dark greenish gray silty clayey fine sand (40/10/50)
136.3		(SM) GLEY 4/1 Dark greenish gray silty fine sand (40/60)
137.5		(CL) GLEY 4/1 Dark greenish gray clay
138.0		(CL) GLEY 4/1 Dark greenish gray silty fine sandy clay (20/20/60)
138.5		(SM) GLEY 4/1 Dark greenish gray silty fine sand (40/60)
140.0		(CL) GLEY 4/1 Dark greenish gray fine-medium coarse sandy silty clay (30/20/50)

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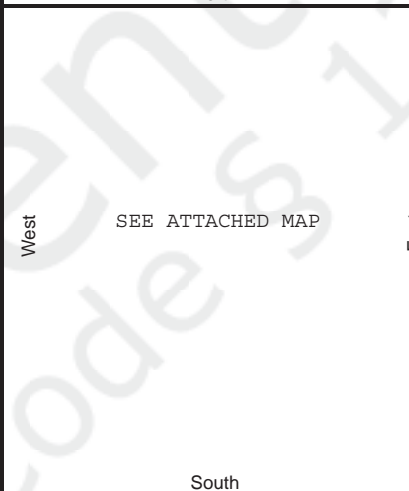
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Township 10N Range 03E Section 25

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175	195	8	Screen	PVC Sch. 80	.276	2.75	Milled Slots
195	200	8	Blank	PVC Sch. 80	.276	2.75	

Annular Material

Depth from Surface Feet to Feet	Fill	Description
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2	145	Cement
145	170	Bentonite
170	201	Filter Pack
		#2/12 graded sand

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Orientation ☒ Vertical ☐ Horizontal ☐ Angle Specify _____

Drilling Method Sonic Drilling Fluid _____

Depth from Surface

Feet to Feet

Description

Describe material, grain size, color, etc

141		(SM-SC) GLEY 4/1 Dark greenish gray silty clayey fine-medium coarse sand (30/20/50)
141.5		(CL) GLEY 4/1 Dark greenish gray sandy silty clay (20/20/60)
142.5		(CL) GLEY 4/1 Dark greenish gray clay
142.8		(SC-SM) GLEY 4/1 Dark greenish gray clayey silty fine-medium coarse sand (30/20/50)
145.0		(ML) GLEY 4/1 Dark greenish gray fine sandy silt (40/60)
147.0		(CL) GLEY 4/1 Dark greenish gray silty clay (40/60)
149.0		(CL) GLEY 4/1 Dark greenish gray clay
151.3		(SM) GLEY 4/1 Dark greenish gray silty fine-coarse sand (10/90)
152.5		(ML) GLEY 4/1 Dark greenish gray fine sandy silt (40/60)
153.0		(CL) GLEY 4/1 Dark greenish gray clay
154.0		(SC-SM) GLEY 4/1 Dark greenish gray clayey, silty fine-medium coarse sand (20/20/60)
155.0		(ML) GLEY 4/1 Dark greenish gray fine sandy, clayey silt (30/10/60)
161.5		(CL) GLEY 4/1 Dark greenish gray silty clay (20/80)
162.5		(CL) GLEY 4/1 Dark greenish gray fine sandy clay (40/60)
163.0		(CL) GLEY 4/1 Dark greenish gray clay
163.3		(SC-SM) GLEY 4/1 Dark greenish gray clayey, silty fine-medium coarse sand (20/20/60)
163.6		(CL) GLEY 4/1 Dark greenish gray fine sandy clay (10/90)

Total Depth of Boring 201 Feet

Total Depth of Completed Well 200 Feet

Well Owner

Name California Department of Fish and Game

Mailing Address 407 W. Line Street

City Bishop State CA Zip 93514

Well Location

Address Camp Cady, Mojave Trail

City Newberry Springs County San Bernardino

Latitude 34 56 5 N Longitude 116 37 13 W
Deq. Min. Sec. Deq. Min. Sec.

Datum NAD83 Decimal Lat. 34.934695 Decimal Long. -116.6201

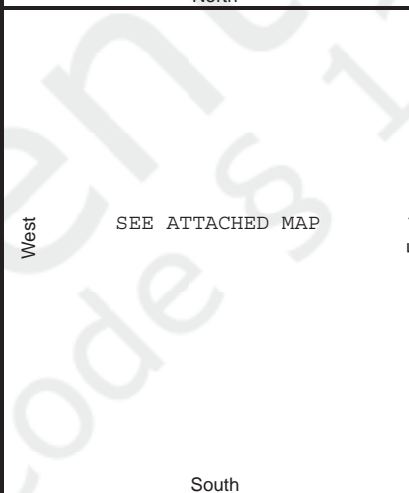
APN Book 0541 Page 011 Parcel 19

Township 10N Range 03E Section 25

Location Sketch

(Sketch must be drawn by hand after form is printed.)

North



Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. Please be accurate and complete.

Activity

- ☒ New Well
☐ Modification/Repair
☐ Deepen
☐ Other _____
☐ Destroy
Describe procedures and materials under "GEOLOGIC LOG"

Planned Uses

- ☐ Water Supply
☐ Domestic ☐ Public
☐ Irrigation ☐ Industrial
☐ Cathodic Protection
☐ Dewatering
☐ Heat Exchange
☐ Injection
☒ Monitoring
☐ Remediation
☐ Sparging
☐ Test Well
☐ Vapor Extraction
☐ Other _____

Water Level and Yield of Completed Well

Depth to first water _____ (Feet below surface)

Depth to Static _____

Water Level 22 (Feet) Date Measured 06/04/2011

Estimated Yield * _____ (GPM) Test Type _____

Test Length _____ (Hours) Total Drawdown _____ (Feet)

*May not be representative of a well's long term yield.

Casings

Depth from Surface Feet to Feet	Borehole Diameter (Inches)	Type	Material	Wall Thickness (Inches)	Outside Diameter (Inches)	Screen Type	Slot Size if Any (Inches)
0	175	8	Blank	PVC Sch. 80	.276	2.75	
175	195	8	Screen	PVC Sch. 80	.276	2.75	Milled Slots
195	200	8	Blank	PVC Sch. 80	.276	2.75	

Annular Material

Depth from Surface Feet to Feet	Fill	Description
0	2	Cement
2	145	Cement
145	170	Bentonite
170	201	Filter Pack
		#2/12 graded sand

Attachments

- ☐ Geologic Log
☐ Well Construction Diagram
☐ Geophysical Log(s)
☐ Soil/Water Chemical Analyses
☒ Other Detailed Site Map

Attach additional information, if it exists.

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name Boart Longyear Company

Person, Firm or Corporation

1333 W. 9th Street

Address

Upland

City

CA 91786

State Zip

Signed _____

C-57 Licensed Water Well Contractor

Date Signed _____

694686

C-57 License Number

File Original with DWR

Page 7 of 8

Owner's Well Number Cluster A Deep Well

Date Work Began 06/01/2011 Date Work Ended 6/4/2011

Local Permit Agency San Bernardino County DPH EHS

Permit Number 2011040169 Permit Date 4/5/11

State of California Well Completion Report

Refer to Instruction Pamphlet

No. **e0130325**

DWR Use Only – Do Not Fill In

State Well Number/Site Number											
Latitude						Longitude					
APN/TRS/Other											

Geologic Log

Orientation ☒ Vertical ☐ Horizontal ☐ Angle Specify _____

Drilling Method Sonic Drilling Fluid _____

Depth from Surface

Feet to Feet

Description

Describe material, grain size, color, etc

165		(ML) GLEY 4/1 Dark greenish gray clayey silt (30/70)
166.0		(CL) GLEY 4/1 Dark greenish gray clay
166.8		(SM) GLEY 4/1 Dark greenish gray silty fine-medium coarse sand (25/75)
168.5		(SM) GLEY 4/1 Dark greenish gray silty fine sand (40/60)
171.5		(CL) GLEY 4/1 Dark greenish gray silty clay (30/70)
173.5		(CL) GLEY 4/1 Dark greenish gray fine-coarse sandy, silty clay (30/20/50) with minor gravel
175.0		(SM) GLEY 4/1 Dark greenish gray silty fine-coarse sand (20/80)
177.5		(CL) GLEY 4/1 Dark greenish gray fine sandy, silty clay (30/30/40)
177.8		(SW-SM) GLEY 4/1 Dark greenish gray silty fine-medium coarse sand (15/85)
180.0		(CL) GLEY 4/1 Dark greenish gray fine-coarse sandy, silty clay (20/20/60)
181.5		(SW) GLEY 4/1 Dark greenish gray fine-coarse sand with some gravel
182.5		(SC-SM) GLEY 4/1 Dark greenish gray clayey, silty fine-coarse sand (20/10/70)
183.5		(SW) GLEY 4/1 Dark greenish gray fine-coarse sand with minor silt
187.2		(CL) GLEY 4/1 Dark greenish gray silty, fine sandy clay (30/20/50)
187.5		(SW) GLEY 4/1 Dark greenish gray fine-coarse sand

Total Depth of Boring 201 Feet

Total Depth of Completed Well 200 Feet

Well Owner

Name California Department of Fish and Game

Mailing Address 407 W. Line Street

City Bishop State CA Zip 93514

Well Location

Address Camp Cady, Mojave Trail

City Newberry Springs County San Bernardino

Latitude 34 56 5 N Longitude 116 37 13 W
Deq. Min. Sec. Deq. Min. Sec.

Datum NAD83 Decimal Lat. 34.934695 Decimal Long. -116.6201

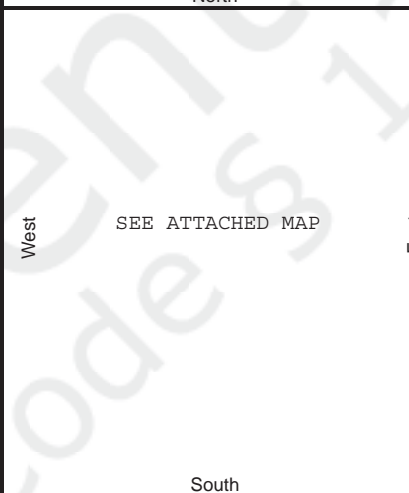
APN Book 0541 Page 011 Parcel 19

Township 10N Range 03E Section 25

Location Sketch

(Sketch must be drawn by hand after form is printed.)

North



South

Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. Please be accurate and complete.

Activity

- ☒ New Well
☐ Modification/Repair
☐ Deepen
☐ Other _____
☐ Destroy
Describe procedures and materials under "GEOLOGIC LOG"

Planned Uses

- ☐ Water Supply
☐ Domestic ☐ Public
☐ Irrigation ☐ Industrial
☐ Cathodic Protection
☐ Dewatering
☐ Heat Exchange
☐ Injection
☒ Monitoring
☐ Remediation
☐ Sparging
☐ Test Well
☐ Vapor Extraction
☐ Other _____

Water Level and Yield of Completed Well

Depth to first water _____ (Feet below surface)

Depth to Static _____

Water Level 22 (Feet) Date Measured 06/04/2011

Estimated Yield * _____ (GPM) Test Type _____

Test Length _____ (Hours) Total Drawdown _____ (Feet)

*May not be representative of a well's long term yield.

Casings

Depth from Surface Feet to Feet	Borehole Diameter (Inches)	Type	Material	Wall Thickness (Inches)	Outside Diameter (Inches)	Screen Type	Slot Size if Any (Inches)
0	175	8	Blank	PVC Sch. 80	.276	2.75	
175	195	8	Screen	PVC Sch. 80	.276	2.75	Milled Slots
195	200	8	Blank	PVC Sch. 80	.276	2.75	

Annular Material

Depth from Surface Feet to Feet	Fill	Description
0	2	Cement
2	145	Cement
145	170	Bentonite
170	201	Filter Pack
		#2/12 graded sand

Attachments

- ☐ Geologic Log
☐ Well Construction Diagram
☐ Geophysical Log(s)
☐ Soil/Water Chemical Analyses
☒ Other Detailed Site Map

Attach additional information, if it exists.

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name Boart Longyear Company

Person, Firm or Corporation

1333 W. 9th Street

Address

Upland

City

CA 91786

State

Zip

Signed _____

C-57 Licensed Water Well Contractor

Date Signed _____

694686

C-57 License Number

File Original with DWR

Page 1 of 2

Owner's Well Number Cluster A Shallow Well

Date Work Began 06/04/2011

Local Permit Agency San Bernardino County DPH EHS

Permit Number 2011040171

Permit Date 4/5/11

State of California

Well Completion Report

Refer to Instruction Pamphlet

No. **e0130327**

DWR Use Only - Do Not Fill In

State Well Number/Site Number

Latitude

Longitude

APN/TRS/Other

Geologic Log

Orientation ☒ Vertical ☐ Horizontal ☐ Angle Specify _____

Drilling Method Sonic Drilling Fluid _____

Depth from Surface

Description

Feet	to Feet	Describe material, grain size, color, etc
0		(ML) 10YR 7/3 Very pale brown silt with some cobbles (<1/4")
2.5		(SW) 10YR 7/6 Yellow fine-coarse sand with some gravel
4.5		(SW) 10YR 6/3 Pale brown fine-medium coarse sand with minor silt
5.5		(SM) 10YR 6/8 Brownish yellow silty fine sand with black lignite inclusions
6.0		(SW) 10YR 6/3 Pale brown fine-medium coarse sand with some cobbles bottom 0.5'
8.0		(SC) 10YR 4/3 Brown clayey sand (30/70)
10.0		(SW) 10YR 6/4 Light yellowish brown medium coarse-coarse sand with some gravel and cobbles (<1/4")
10.8		(SW) 10YR 7/3 Very pale brown fine-coarse sand with some gravel, more gravel and cobbles @12.5-13.5'
17.5		(SC) 10YR 5/3 Brown clayey, fine-medium coarse sand (30/70)
19.0		(SP) 10YR 5/3 Brown medium coarse sand
19.3		(SM) 10YR 4/3 Brown firm silty fine sand (50/50)
20.0		(SW) 10YR 5/3 Brown fine-medium coarse sand with minor silt
22.0		(ML) 10YR 5/3 Brown firm sandy silt (20/80)
23.5		(SM) 10YR 5/4 Yellowish brown silty sand (20/80) increasing coarse sand bottom 0.5'
25.5		(CL) 10YR 5/3 Brown fine-medium coarse sandy clay (20/80)
26.0		(SC-SM) 10YR 5/3 Brown clayey, silty fine-medium coarse sand (15/15/70)

Total Depth of Boring 38 Feet

Total Depth of Completed Well 37 Feet

Well Owner

Name California Department of Fish and Game

Mailing Address 407 W. Line Street

City Bishop State CA Zip 93514

Well Location

Address Camp Cady, Mojave Trail

City Newberry Springs County San Bernardino

Latitude 34 56 5 N Longitude 116 37 13 W
Deq. Min. Sec. Deq. Min. Sec.

Datum NAD83 Decimal Lat. 34.934686 Decimal Long. -116.6202

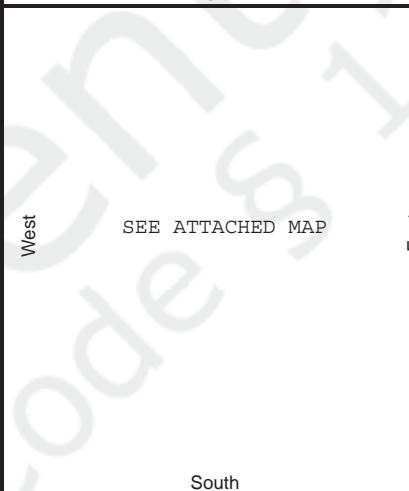
APN Book 0541 Page 011 Parcel 19

Township 10N Range 03E Section 25

Location Sketch

(Sketch must be drawn by hand after form is printed.)

North



South

Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. Please be accurate and complete.

Activity

- ☒ New Well
☐ Modification/Repair
☐ Deepen
☐ Other _____
☐ Destroy
Describe procedures and materials under "GEOLOGIC LOG"

Planned Uses

- ☐ Water Supply
☐ Domestic ☐ Public
☐ Irrigation ☐ Industrial
☐ Cathodic Protection
☐ Dewatering
☐ Heat Exchange
☐ Injection
☒ Monitoring
☐ Remediation
☐ Sparging
☐ Test Well
☐ Vapor Extraction
☐ Other _____

Water Level and Yield of Completed Well

Depth to first water _____ (Feet below surface)

Depth to Static _____

Water Level 21 (Feet) Date Measured 06/04/2011

Estimated Yield * _____ (GPM) Test Type _____

Test Length _____ (Hours) Total Drawdown _____ (Feet)

*May not be representative of a well's long term yield.

Casings

Depth from Surface Feet to Feet	Borehole Diameter (Inches)	Type	Material	Wall Thickness (Inches)	Outside Diameter (Inches)	Screen Type	Slot Size if Any (Inches)
0	17	8	Blank	PVC Sch. 80	.276	2.75	
17	32	8	Screen	PVC Sch. 80	.276	2.75	Milled Slots 0.020
32	37	8	Blank	PVC Sch. 80	.276	2.75	

Annular Material

Depth from Surface Feet to Feet	Fill	Description
0	2	Cement Concrete
2	12	Bentonite Hydrated pellets
12	38	Filter Pack #2/12 graded sand

Attachments

- ☐ Geologic Log
☐ Well Construction Diagram
☐ Geophysical Log(s)
☐ Soil/Water Chemical Analyses
☒ Other Detailed Site Map

Attach additional information, if it exists.

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name Boart Longyear Company

Person, Firm or Corporation

1333 W. 9th Street

Address

Upland

City

CA 91786

State

Zip

Signed _____

C-57 Licensed Water Well Contractor

Date Signed _____

694686

C-57 License Number

File Original with DWR

Page 1 of 6

Owner's Well Number Cluster B Deep Well

Date Work Began 05/23/2011

Local Permit Agency San Bernardino County DPH EHS

Permit Number 2011040172 Permit Date 4/5/11

State of California

Well Completion Report

Refer to Instruction Pamphlet

No. **e0130328**

DWR Use Only – Do Not Fill In	
State Well Number/Site Number	
Latitude	Longitude
APN/TRS/Other	

Geologic Log		
Orientation <input checked="" type="radio"/> Vertical <input type="radio"/> Horizontal <input type="radio"/> Angle Specify _____		
Drilling Method <u>Sonic</u> Drilling Fluid _____		
Depth from Surface Feet to Feet	Description Describe material, grain size, color, etc	
0	(ML) Pale brown (10YR 6/3) silt	
3.5	(SM-SW) Very pale brown (10YR 7/4) silty fine-coarse sand with some gravel	
5.0	(CL) Light yellow brown (2.5Y 6/3) silty clay with some orange mottling	
6.0	(SM-SW) Reddish yellow (7.5YR 6/6) silty fine-coarse sand with some gravel	
6.4	(SM) Very pale brown (10YR 7/4) fine silty sand	
7.5	(CL) Olive brown (2.5Y 5/3) silty clay with some orange mottling	
11.0	(ML) Light brownish gray (10YR 6/2) fine sandy silt	
13.0	(SM-SW) Pale brown (10YR 6/3) silty fine-coarse sand with some gravel	
15.0	(ML) Pale brown (10YR 6/3) clayey silt	
17.5	Missing	
20.0	(SW) Light yellowish brown (10YR 6/4) fine-medium coarse sand	
20.6	(SW) Yellowish brown (10YR 5/4) fine-medium coarse sand	
22.0	(SW) Light yellowish brown (10YR 6/4) fine-medium coarse sand	
22.5	(SW-SC) Pale brown (10YR 6/3) silty fine-medium coarse sand with minor clay	
23.7	(SC) Yellowish brown (10YR 5/4) silty clayey fine-medium coarse sand	
25.0	(ML) Dark grayish brown (10YR 4/2) micaceous silt	
27.5	(SW) Light brownish gray (10YR 6/2) fine-medium coarse sand	
Total Depth of Boring <u>185</u> Feet		
Total Depth of Completed Well <u>184</u> Feet		

Well Owner	
Name <u>California Department of Fish and Game</u>	
Mailing Address <u>407 W. Line Street</u>	
City <u>Bishop</u>	State <u>CA</u> Zip <u>93514</u>

Well Location	
Address <u>Camp Cady, Mojave Trail</u>	
City <u>Newberry Springs</u>	County <u>San Bernardino</u>
Latitude <u>34</u> <u>56</u> <u>6</u> N Longitude <u>116</u> <u>36</u> <u>48</u> W	
Datum <u>NAD83</u> Decimal Lat. <u>34.935029</u> Decimal Long. <u>-116.6133</u>	
APN Book <u>0541</u> Page <u>011</u> Parcel <u>19</u>	
Township <u>10N</u> Range <u>03E</u> Section <u>25</u>	

Location Sketch	Activity
(Sketch must be drawn by hand after form is printed.)	<input checked="" type="radio"/> New Well <input type="radio"/> Modification/Repair <input type="radio"/> Deepen <input type="radio"/> Other _____ <input type="radio"/> Destroy Describe procedures and materials under "GEOLOGIC LOG"
North	Planned Uses <input type="radio"/> Water Supply <input type="checkbox"/> Domestic <input type="checkbox"/> Public <input type="checkbox"/> Irrigation <input type="checkbox"/> Industrial <input type="radio"/> Cathodic Protection <input type="radio"/> Dewatering <input type="radio"/> Heat Exchange <input type="radio"/> Injection <input checked="" type="radio"/> Monitoring <input type="radio"/> Remediation <input type="radio"/> Sparging <input type="radio"/> Test Well <input type="radio"/> Vapor Extraction <input type="radio"/> Other _____
SEE ATTACHED MAP	
South	
Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. Please be accurate and complete.	

Water Level and Yield of Completed Well	
Depth to first water _____ (Feet below surface)	
Depth to Static _____	
Water Level <u>24</u> (Feet) Date Measured <u>06/01/2011</u>	
Estimated Yield * _____ (GPM) Test Type _____	
Test Length _____ (Hours) Total Drawdown _____ (Feet)	
*May not be representative of a well's long term yield.	

Casings								Annular Material				
Depth from Surface Feet to Feet	Borehole Diameter (Inches)	Type	Material	Wall Thickness (Inches)	Outside Diameter (Inches)	Screen Type	Slot Size if Any (Inches)	Depth from Surface Feet to Feet	Fill	Description		
0	159	8	Blank	PVC Sch. 80	.276	2.75		0	2	Cement	Concrete	
159	179	8	Screen	PVC Sch. 80	.276	2.75	Milled Slots	0.020	2	139	Cement	Cement/bent. grout
179	184	8	Blank	PVC Sch. 80	.276	2.75			139	154	Bentonite	Hydrated pellets
									154	185	Filter Pack	#2/12 graded sand

Attachments	Certification Statement
<input type="checkbox"/> Geologic Log <input type="checkbox"/> Well Construction Diagram <input type="checkbox"/> Geophysical Log(s) <input type="checkbox"/> Soil/Water Chemical Analyses <input checked="" type="checkbox"/> Other <u>Detailed Site Map</u>	<p>I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief</p> <p>Name <u>Boart Longyear Company</u></p> <p>Person, Firm or Corporation</p> <p><u>1333 W. 9th Street</u> <u>Upland</u> <u>CA</u> <u>91786</u></p> <p>Address City State Zip</p> <p>Signed _____ Date Signed _____</p> <p>C-57 Licensed Water Well Contractor C-57 License Number <u>694686</u></p>

Attach additional information, if it exists.

File Original with DWR

Page 2 of 6

Owner's Well Number Cluster B Deep Well

Date Work Began 05/23/2011

Date Work Ended 6/1/2011

Local Permit Agency San Bernardino County DPH EHS

Permit Number 2011040172

Permit Date 4/5/11

State of California

Well Completion Report

Refer to Instruction Pamphlet

No. **e0130328**

DWR Use Only – Do Not Fill In

State Well Number/Site Number											
Latitude						Longitude					
APN/TRS/Other											

Geologic Log

Orientation ☒ Vertical ☐ Horizontal ☐ Angle Specify _____

Drilling Method Sonic Drilling Fluid _____

Depth from Surface

Description

Feet	to Feet	Describe material, grain size, color, etc
37.5		(SM) Dark greenish gray (GLE Y2 3/1) micaceous silty fine-medium coarse sand
40.0		(SM) Dark gray (10YR 4/1) silty fine-medium coarse sand
41.0		(SM) Grayish brown (10YR 5/2) silty fine-coarse sand
42.5		(SM-SC) Grayish brown (10YR 5/2) silty, clayey fine-medium coarse sand
47.5		(ML) Dark gray (10YR 4/1) fine sandy, clayey silt
49.5		(SM-SC) Grayish brown (10YR 5/2) silty clayey fine-medium coarse sand
50.5		(SM) Grayish brown (10YR 5/2) silty fine sand (50/50)
51.5		(ML) Grayish brown (10YR 5/2) fine sandy silt (30/70)
55.0		(SW) Light brownish gray (10YR 6/2) fine-coarse sand
57.5		(CL) Brown (7.5YR 4/2) clay
62.5		(ML) Brown (7.5YR 4/3) fine sandy silt (50/50)
63.2		(SM) Brown (7.5YR 4/3) silty fine-medium coarse sand
65.5		(SM-SC) Brown (7.5YR 5/3) clayey, silty fine-coarse sand (20/20/60)
72.5		(ML) Dark gray (10YR 4/1) fine sandy silt (50/50)
74.0		(CL) Dark gray (10YR 4/1) silty, fine-medium coarse sandy clay
75.5		(SM) Dark gray (10YR 4/1) silty fine-medium coarse sand
76.5		(CL) Dark gray (10YR 4/1) fine sandy silty clay
77.5		(CL) Dark greenish gray (GLE Y1 4/1) clay

Total Depth of Boring 185 Feet

Total Depth of Completed Well 184 Feet

Well Owner

Name California Department of Fish and Game

Mailing Address 407 W. Line Street

City Bishop State CA Zip 93514

Well Location

Address Camp Cady, Mojave Trail

City Newberry Springs County San Bernardino

Latitude 34 56 6 N Longitude 116 36 48 W
Deq. Min. Sec. Deq. Min. Sec.

Datum NAD83 Decimal Lat. 34.935029 Decimal Long. -116.6133

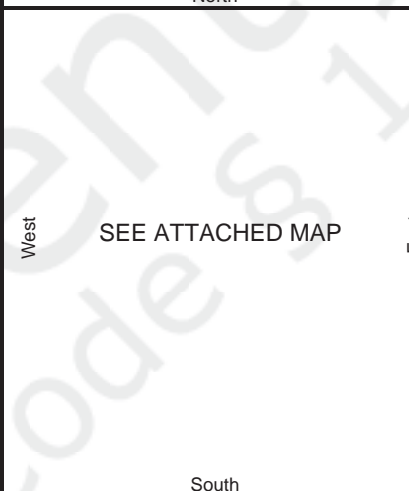
APN Book 0541 Page 011 Parcel 19

Township 10N Range 03E Section 25

Location Sketch

(Sketch must be drawn by hand after form is printed.)

North



Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. Please be accurate and complete.

Activity

- ☒ New Well
☐ Modification/Repair
☐ Deepen
☐ Other _____
☐ Destroy
Describe procedures and materials under "GEOLOGIC LOG"

Planned Uses

- ☐ Water Supply
☐ Domestic ☐ Public
☐ Irrigation ☐ Industrial
☐ Cathodic Protection
☐ Dewatering
☐ Heat Exchange
☐ Injection
☒ Monitoring
☐ Remediation
☐ Sparging
☐ Test Well
☐ Vapor Extraction
☐ Other _____

Water Level and Yield of Completed Well

Depth to first water _____ (Feet below surface)

Depth to Static _____

Water Level 22 (Feet) Date Measured 06/01/2011

Estimated Yield * _____ (GPM) Test Type _____

Test Length _____ (Hours) Total Drawdown _____ (Feet)

*May not be representative of a well's long term yield.

Casings

Depth from Surface Feet to Feet	Borehole Diameter (Inches)	Type	Material	Wall Thickness (Inches)	Outside Diameter (Inches)	Screen Type	Slot Size if Any (Inches)
0	159	8	Blank	PVC Sch. 80	.276	2.75	
159	179	8	Screen	PVC Sch. 80	.276	2.75	Milled Slots
179	184	8	Blank	PVC Sch. 80	.276	2.75	

Annular Material

Depth from Surface Feet to Feet	Fill	Description
0	2	Cement Concrete
2	139	Cement Cement/bent. grout
139	154	Bentonite Hydrated pellets
154	185	Filter Pack #2/12 graded sand

Attachments

- ☐ Geologic Log
☐ Well Construction Diagram
☐ Geophysical Log(s)
☐ Soil/Water Chemical Analyses
☒ Other Detailed Site Map

Attach additional information, if it exists.

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name Boart Longyear Company

Person, Firm or Corporation

1333 W. 9th Street

Address

Upland

City

CA 91786

State Zip

Signed _____

C-57 Licensed Water Well Contractor

Date Signed _____

694686

C-57 License Number

File Original with DWR

Page 3 of 6

Owner's Well Number Cluster B Deep Well

Date Work Began 05/23/2011

Date Work Ended 6/1/2011

Local Permit Agency San Bernardino County DPH EHS

Permit Number 2011040172

Permit Date 4/5/11

State of California

Well Completion Report

Refer to Instruction Pamphlet

No. **e0130328**

DWR Use Only – Do Not Fill In

State Well Number/Site Number											
Latitude						Longitude					
APN/TRS/Other											

Geologic Log

Orientation ☒ Vertical ☐ Horizontal ☐ Angle Specify _____

Drilling Method Sonic Drilling Fluid _____

Depth from Surface

Description

Feet	to Feet	Describe material, grain size, color, etc
80		(SM) Dark gray (10YR 4/1) silty fine-medium coarse sand
81.0		(CL) Dark greenish gray (GLE Y1 4/1) clay
82.5		(ML) Dark greenish gray (GLE Y1 4/1) clayey fine sandy silt
86.5		(CL) Dark greenish gray (GLE Y1 4/1) silty clay (20/80)
87.5		(CL) Dark greenish gray (GLE Y1 4/1) silty clay (50/50)
90.0		(CL) Dark greenish gray (GLE Y1 4/1) silty, fine sandy clay (20/20/60)
91.0		(SM-SC) Dark greenish gray (GLE Y1 4/1) silty, clayey fine sand (20/20/60)
91.5		(CL) Dark greenish gray (GLE Y1 4/1) silty, fine sandy clay (20/20/60)
92.0		(SM) Dark greenish gray (GLE Y1 4/1) silty fine sand (30/70)
92.5		(CL) Dark greenish gray (GLE Y1 4/1) clay
93.5		(CL) Dark greenish gray (GLE Y1 4/1) silty, fine sandy clay
94.0		(SM) Dark greenish gray (GLE Y1 4/1) silty fine sand (40/60)
95.0		(SM) Dark greenish gray (GLE Y1 3/1) silty fine sand (20/80)
96.3		(CL) Dark greenish gray (GLE Y1 3/1) clay
98.3		(SM) Dark greenish gray (GLE Y1 3/1) silty fine sand (30/70)
104.0		(CL) Dark greenish gray (GLE Y1 3/1) silty clay (40/60)

Total Depth of Boring 185 Feet

Total Depth of Completed Well 184 Feet

Well Owner

Name California Department of Fish and Game

Mailing Address 407 W. Line Street

City Bishop State CA Zip 93514

Well Location

Address Camp Cady, Mojave Trail

City Newberry Springs County San Bernardino

Latitude 34 56 6 N Longitude 116 36 48 W
Deq. Min. Sec. Deq. Min. Sec.

Datum NAD83 Decimal Lat. 34.935029 Decimal Long. -116.6133

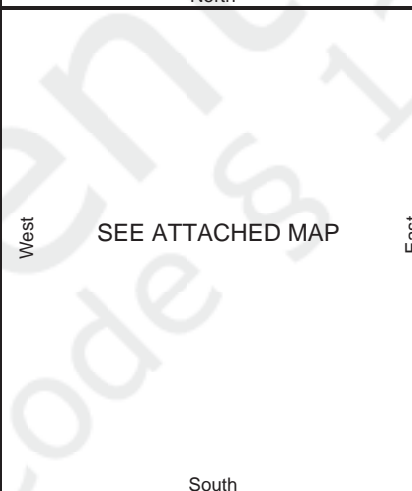
APN Book 0541 Page 011 Parcel 19

Township 10N Range 03E Section 25

Location Sketch

(Sketch must be drawn by hand after form is printed.)

North



Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. Please be accurate and complete.

Activity

- ☒ New Well
☐ Modification/Repair
☐ Deepen
☐ Other _____
☐ Destroy
Describe procedures and materials under "GEOLOGIC LOG"

Planned Uses

- ☐ Water Supply
☐ Domestic ☐ Public
☐ Irrigation ☐ Industrial
☐ Cathodic Protection
☐ Dewatering
☐ Heat Exchange
☐ Injection
☒ Monitoring
☐ Remediation
☐ Sparging
☐ Test Well
☐ Vapor Extraction
☐ Other _____

Water Level and Yield of Completed Well

Depth to first water _____ (Feet below surface)

Depth to Static _____

Water Level 22 (Feet) Date Measured 06/01/2011

Estimated Yield * _____ (GPM) Test Type _____

Test Length _____ (Hours) Total Drawdown _____ (Feet)

*May not be representative of a well's long term yield.

Casings

Depth from Surface Feet to Feet	Borehole Diameter (Inches)	Type	Material	Wall Thickness (Inches)	Outside Diameter (Inches)	Screen Type	Slot Size if Any (Inches)
0	159	8	Blank	PVC Sch. 80	.276	2.75	
159	179	8	Screen	PVC Sch. 80	.276	2.75	Milled Slots 0.020
179	184	8	Blank	PVC Sch. 80	.276	2.75	

Annular Material

Depth from Surface Feet to Feet	Fill	Description
0	2	Cement Concrete
2	139	Cement Cement/bent. grout
139	154	Bentonite Hydrated pellets
154	185	Filter Pack #2/12 graded sand

Attachments

- ☐ Geologic Log
☐ Well Construction Diagram
☐ Geophysical Log(s)
☐ Soil/Water Chemical Analyses
☒ Other Detailed Site Map

Attach additional information, if it exists.

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name Boart Longyear Company

Person, Firm or Corporation

1333 W. 9th Street
Address

Upland
City

CA 91786
State Zip

Signed _____

C-57 Licensed Water Well Contractor

694686
Date Signed

C-57 License Number

File Original with DWR

Page 5 of 6

Owner's Well Number Cluster B Deep Well

Date Work Began 05/23/2011

Date Work Ended 6/1/2011

Local Permit Agency San Bernardino County DPH EHS

Permit Number 2011040172

Permit Date 4/5/11

State of California

Well Completion Report

Refer to Instruction Pamphlet

No. **e0130328**

DWR Use Only – Do Not Fill In

State Well Number/Site Number											
Latitude						Longitude					
APN/TRS/Other											

Geologic Log

Orientation ☒ Vertical ☐ Horizontal ☐ Angle Specify _____

Drilling Method Sonic Drilling Fluid _____

Depth from Surface

Feet to Feet

Description

Describe material, grain size, color, etc

124.7		(SC-SM) Dark greenish gray (GLE Y1 3/1) clayey silty fine sand (40/20/40)
125.0		(CL) Dark greenish gray (GLE Y1 3/1) clay
125.8		(SC-SM) Dark greenish gray (GLE Y1 3/1) clayey silty fine sand (40/20/40)
126.0		(CL) Dark greenish gray (GLE Y1 3/1) silty sandy clay (40/20/40)
126.6		(CL) Dark greenish gray (GLE Y1 3/1) clay
127.0		(SC-SM) Dark greenish gray (GLE Y1 3/1) clayey silty fine sand (20/20/60)
128.0		(CL) Dark greenish gray (GLE Y1 3/1) silty clay (10/90)
128.5		(SC-SM) Dark greenish gray (GLE Y1 3/1) clayey silty fine sand (30/30/40)
131.0		(CL) Dark greenish gray (GLE Y1 3/1) clay
131.3		(SC-SM) Dark greenish gray (GLE Y1 3/1) clayey silty fine sand (30/30/40)
132.5		(SM) Dark greenish gray (GLE Y1 3/1) silty fine sand (20/80)
135.0		(CL) Dark greenish gray (GLE Y1 3/1) clay
140.6		(SM) Dark greenish gray (GLE Y1 3/1) silty fine-medium coarse sand (20/80)
142.0		(CL) Dark greenish gray (GLE Y1 3/1) fine-medium coarse sandy, silty clay (30/30/40)
142.5		(SP-SM) Dark greenish gray (GLE Y1 3/1) fine-medium coarse sand with minor silt
144.5		(CL) Dark greenish gray (GLE Y1 3/1) clay
146.0		(SW) Dark greenish gray (GLE Y1 3/1) fine-coarse sand with some gravel

Total Depth of Boring 185 Feet

Total Depth of Completed Well 184 Feet

Well Owner

Name California Department of Fish and Game

Mailing Address 407 W. Line Street

City Bishop State CA Zip 93514

Well Location

Address Camp Cady, Mojave Trail

City Newberry Springs County San Bernardino

Latitude 34 56 6 N Longitude 116 36 48 W
Deq. Min. Sec. Deq. Min. Sec.

Datum NAD83 Decimal Lat. 34.935029 Decimal Long. -116.6133

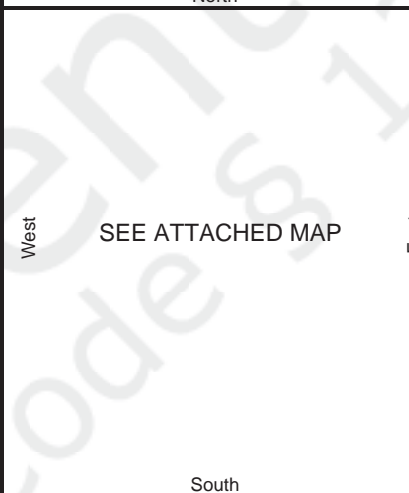
APN Book 0541 Page 011 Parcel 19

Township 10N Range 03E Section 25

Location Sketch

(Sketch must be drawn by hand after form is printed.)

North



South

Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. Please be accurate and complete.

Activity

- ☒ New Well
☐ Modification/Repair
☐ Deepen
☐ Other _____
☐ Destroy
Describe procedures and materials under "GEOLOGIC LOG"

Planned Uses

- ☐ Water Supply
☐ Domestic ☐ Public
☐ Irrigation ☐ Industrial
☐ Cathodic Protection
☐ Dewatering
☐ Heat Exchange
☐ Injection
☒ Monitoring
☐ Remediation
☐ Sparging
☐ Test Well
☐ Vapor Extraction
☐ Other _____

Water Level and Yield of Completed Well

Depth to first water _____ (Feet below surface)

Depth to Static _____

Water Level 22 (Feet) Date Measured 06/01/2011

Estimated Yield * _____ (GPM) Test Type _____

Test Length _____ (Hours) Total Drawdown _____ (Feet)

*May not be representative of a well's long term yield.

Casings

Depth from Surface Feet to Feet	Borehole Diameter (Inches)	Type	Material	Wall Thickness (Inches)	Outside Diameter (Inches)	Screen Type	Slot Size if Any (Inches)
0	159	8	Blank	PVC Sch. 80	.276	2.75	
159	179	8	Screen	PVC Sch. 80	.276	2.75	Milled Slots
179	184	8	Blank	PVC Sch. 80	.276	2.75	

Annular Material

Depth from Surface Feet to Feet	Fill	Description
0	2	Cement
2	139	Cement
139	154	Bentonite
154	185	Filter Pack
		#2/12 graded sand

Attachments

- ☐ Geologic Log
☐ Well Construction Diagram
☐ Geophysical Log(s)
☐ Soil/Water Chemical Analyses
☒ Other Detailed Site Map

Attach additional information, if it exists.

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name Boart Longyear Company

Person, Firm or Corporation

1333 W. 9th Street

Address

Upland

City

CA 91786

State Zip

Signed _____

C-57 Licensed Water Well Contractor

Date Signed _____

C-57 License Number

File Original with DWR

Page 6 of 6

Owner's Well Number Cluster B Deep Well

Date Work Began 05/23/2011

Date Work Ended 6/1/2011

Local Permit Agency San Bernardino County DPH EHS

Permit Number 2011040172

Permit Date 4/5/11

State of California

Well Completion Report

Refer to Instruction Pamphlet

No. **e0130328**

DWR Use Only – Do Not Fill In

State Well Number/Site Number											
Latitude						Longitude					
APN/TRS/Other											

Geologic Log

Orientation ☒ Vertical ☐ Horizontal ☐ Angle Specify _____

Drilling Method Sonic Drilling Fluid _____

Depth from Surface

Feet to Feet

Description

Describe material, grain size, color, etc

147.5		(SC) Dark greenish gray (GLE Y1 3/1) clayey fine-coarse sand (30/70)
148.2		(SC) Dark greenish gray (GLE Y1 3/1) clayey fine-coarse sand (10/90)
149.5		(CL) Dark greenish gray (GLE Y1 3/1) silty clay (20/80)
151.5		(SW-SM) Dark greenish gray (GLE Y1 3/1) fine-coarse sand with some silt and gravel
154.2		(CL) Dark greenish gray (GLE Y1 3/1) silty clay (50/50)
155.0		(ML) Dark greenish gray (GLE Y1 3/1) clayey, sandy silt (30/30/40)
155.5		(SW) Dark greenish gray (GLE Y1 3/1) fine-medium coarse sand
157.5		(CL) Dark greenish gray (GLE Y1 3/1) clay
159.0		(SM-SC) Dark greenish gray (GLE Y1 3/1) silty, clayey sand (30/10/60)
162.5		(SM) Dark greenish gray (GLE Y1 3/1) silty fine sand (20/80)
165.0		(SM-SC) Dark greenish gray (GLE Y1 3/1) silty clayey fine-medium coarse sand (30/10/60)
166.5		(CL) Dark greenish gray (GLE Y1 3/1) clay
167.5		(SW) Dark greenish gray (GLE Y1 3/1) fine-coarse sand
169.0		(CL) Dark greenish gray (GLE Y1 3/1) clay
172.5		(SW) Dark greenish gray (GLE Y1 3/1) fine-coarse sand
179.0		(CL) Dark greenish gray (GLE Y1 3/1) silty clay
179.5	185	(SW) Dark greenish gray (GLE Y1 3/1) fine-coarse sand

Total Depth of Boring 185 Feet

Total Depth of Completed Well 184 Feet

Well Owner

Name California Department of Fish and Game

Mailing Address 407 W. Line Street

City Bishop State CA Zip 93514

Well Location

Address Camp Cady, Mojave Trail

City Newberry Springs County San Bernardino

Latitude 34 56 6 N Longitude 116 36 48 W
Deq. Min. Sec. Deq. Min. Sec.

Datum NAD83 Decimal Lat. 34.935029 Decimal Long. -116.6133

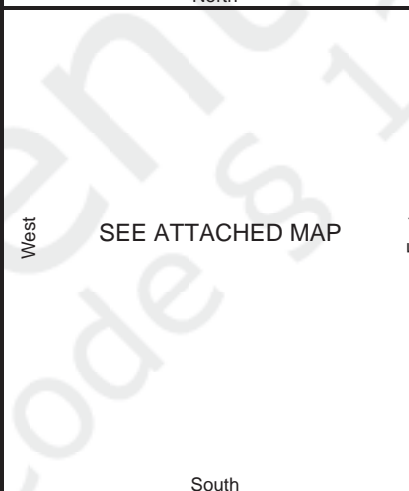
APN Book 0541 Page 011 Parcel 19

Township 10N Range 03E Section 25

Location Sketch

(Sketch must be drawn by hand after form is printed.)

North



South

Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. Please be accurate and complete.

Activity

- ☒ New Well
☐ Modification/Repair
☐ Deepen
☐ Other _____
☐ Destroy
Describe procedures and materials under "GEOLOGIC LOG"

Planned Uses

- ☐ Water Supply
☐ Domestic ☐ Public
☐ Irrigation ☐ Industrial
☐ Cathodic Protection
☐ Dewatering
☐ Heat Exchange
☐ Injection
☒ Monitoring
☐ Remediation
☐ Sparging
☐ Test Well
☐ Vapor Extraction
☐ Other _____

Water Level and Yield of Completed Well

Depth to first water _____ (Feet below surface)

Depth to Static _____

Water Level 22 (Feet) Date Measured 06/01/2011

Estimated Yield * _____ (GPM) Test Type _____

Test Length _____ (Hours) Total Drawdown _____ (Feet)

*May not be representative of a well's long term yield.

Casings

Depth from Surface Feet to Feet	Borehole Diameter (Inches)	Type	Material	Wall Thickness (Inches)	Outside Diameter (Inches)	Screen Type	Slot Size if Any (Inches)
0	159	8	Blank	PVC Sch. 80	.276	2.75	
159	179	8	Screen	PVC Sch. 80	.276	2.75	Milled Slots
179	184	8	Blank	PVC Sch. 80	.276	2.75	

Annular Material

Depth from Surface Feet to Feet	Fill	Description
0	2	Cement Concrete
2	139	Cement Cement/bent. grout
139	154	Bentonite Hydrated pellets
154	185	Filter Pack #2/12 graded sand

Attachments

- ☐ Geologic Log
☐ Well Construction Diagram
☐ Geophysical Log(s)
☐ Soil/Water Chemical Analyses
☒ Other Detailed Site Map

Attach additional information, if it exists.

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name Boart Longyear Company

Person, Firm or Corporation

1333 W. 9th Street
Address

Upland
City

CA 91786
State Zip

Signed _____

C-57 Licensed Water Well Contractor

694686
Date Signed

C-57 License Number

File Original with DWR

Page 1 of 4

Owner's Well Number Cluster B Intermediate Well

Date Work Began 05/25/2011

Local Permit Agency San Bernardino County DPH EHS

Permit Number 2011040173 Permit Date 4/5/11

State of California

Well Completion Report

Refer to Instruction Pamphlet

No. **e0130329**

DWR Use Only – Do Not Fill In

State Well Number/Site Number

Latitude

Longitude

APN/TRS/Other

Geologic Log

Orientation ☐ Vertical ☐ Horizontal ☐ Angle Specify _____

Drilling Method _____ Drilling Fluid _____

Depth from Surface

Description

Feet	to Feet	Description
0		(ML) Pale brown (10YR 6/3) silt
3.5		(SM-SW) Very pale brown (10YR 7/4) silty fine-coarse sand with some gravel
5.0		(CL) Light yellow brown (2.5Y 6/3) silty clay with some orange mottling
6.0		(SM-SW) Reddish yellow (7.5YR 6/6) silty fine-coarse sand with some gravel
6.4		(SM) Very pale brown (10YR 7/4) fine silty sand
7.5		(CL) Olive brown (2.5Y 5/3) silty clay with some orange mottling
11.0		(ML) Light brownish gray (10YR 6/2) fine sandy silt
13.0		(SM-SW) Pale brown (10YR 6/3) silty fine-coarse sand with some gravel
15.0		(ML) Pale brown (10YR 6/3) clayey silt
17.5		Missing
20.0		(SW) Light yellowish brown (10YR 6/4) fine-medium coarse sand
20.6		(SW) Yellowish brown (10YR 5/4) fine-medium coarse sand
22.0		(SW) Light yellowish brown (10YR 6/4) fine-medium coarse sand
22.5		(SW-SC) Pale brown (10YR 6/3) silty fine-medium coarse sand with minor clay
23.7		(SC) Yellowish brown (10YR 5/4) silty clayey fine-medium coarse sand
25.0		(ML) Dark grayish brown (10YR 4/2) micaceous silt
27.5		(SW) Light brownish gray (10YR 6/2) fine-medium coarse sand

Total Depth of Boring 110 Feet

Total Depth of Completed Well 109 Feet

Well Owner

Name California Department of Fish and Game

Mailing Address 407 W. Line Street

City Bishop State CA Zip 93514

Well Location

Address Camp Cady, Mojave Trail

City Newberry Springs County San Bernardino

Latitude 34 56 6 N Longitude 116 36 48 W
Deq. Min. Sec. Deq. Min. Sec.

Datum NAD83 Decimal Lat. 34.935011 Decimal Long. -116.6133

APN Book 0541 Page 011 Parcel 19

Township 10N Range 03E Section 25

Location Sketch

(Sketch must be drawn by hand after form is printed.)

North

West

SEE ATTACHED MAP

East

South

Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. Please be accurate and complete.

Activity

- ☒ New Well
☐ Modification/Repair
☐ Deepen
☐ Other _____
☐ Destroy
Describe procedures and materials under "GEOLOGIC LOG"

Planned Uses

- ☐ Water Supply
☐ Domestic ☐ Public
☐ Irrigation ☐ Industrial
☐ Cathodic Protection
☐ Dewatering
☐ Heat Exchange
☐ Injection
☒ Monitoring
☐ Remediation
☐ Sparging
☐ Test Well
☐ Vapor Extraction
☐ Other _____

Water Level and Yield of Completed Well

Depth to first water _____ (Feet below surface)

Depth to Static _____

Water Level 23 (Feet) Date Measured 06/01/2011

Estimated Yield * _____ (GPM) Test Type _____

Test Length _____ (Hours) Total Drawdown _____ (Feet)

*May not be representative of a well's long term yield.

Casings

Depth from Surface Feet to Feet	Borehole Diameter (Inches)	Type	Material	Wall Thickness (Inches)	Outside Diameter (Inches)	Screen Type	Slot Size if Any (Inches)
0	94	8	Blank	PVC Sch. 80	.276	2.75	
94	104	8	Screen	PVC Sch. 80	.276	2.75	Milled Slots
104	109	8	Blank	PVC Sch. 80	.276	2.75	

Annular Material

Depth from Surface Feet to Feet	Fill	Description
0	2	Cement
2	74	Cement
74	89	Bentonite
89	110	Filter Pack
		#2/12 graded sand

Attachments

- ☐ Geologic Log
☐ Well Construction Diagram
☐ Geophysical Log(s)
☐ Soil/Water Chemical Analyses
☒ Other Detailed Site Map

Attach additional information, if it exists.

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name Boart Longyear Company

Person, Firm or Corporation

1333 W. 9th Street

Address

Upland

City

CA 91786

State

Zip

Signed _____

C-57 Licensed Water Well Contractor

Date Signed _____

694686

C-57 License Number

File Original with DWR

Page 2 of 4

Owner's Well Number Cluster B Intermediate Well

Date Work Began 05/25/2011

Local Permit Agency San Bernardino County DPH EHS

Permit Number 2011040173

Permit Date 4/5/11

State of California

Well Completion Report

Refer to Instruction Pamphlet

No. **e0130329**

DWR Use Only – Do Not Fill In

State Well Number/Site Number

Latitude

Longitude

APN/TRS/Other

Geologic Log

Orientation ☒ Vertical ☐ Horizontal ☐ Angle Specify _____

Drilling Method Sonic Drilling Fluid _____

Depth from Surface

Description

Feet	to Feet	Describe material, grain size, color, etc
37.5		(SM) Dark greenish gray (GLE Y2 3/1) micaceous silty fine-medium coarse sand
40.0		(SM) Dark gray (10YR 4/1) silty fine-medium coarse sand
41.0		(SM) Grayish brown (10YR 5/2) silty fine-coarse sand
42.5		(SM-SC) Grayish brown (10YR 5/2) silty, clayey fine-medium coarse sand
47.5		(ML) Dark gray (10YR 4/1) fine sandy, clayey silt
49.5		(SM-SC) Grayish brown (10YR 5/2) silty clayey fine-medium coarse sand
50.5		(SM) Grayish brown (10YR 5/2) silty fine sand (50/50)
51.5		(ML) Grayish brown (10YR 5/2) fine sandy silt (30/70)
55.0		(SW) Light brownish gray (10YR 6/2) fine-coarse sand
57.5		(CL) Brown (7.5YR 4/2) clay
62.5		(ML) Brown (7.5YR 4/3) fine sandy silt (50/50)
63.2		(SM) Brown (7.5YR 4/3) silty fine-medium coarse sand
65.5		(SM-SC) Brown (7.5YR 5/3) clayey, silty fine-coarse sand (20/20/60)
72.5		(ML) Dark gray (10YR 4/1) fine sandy silt (50/50)
74.0		(CL) Dark gray (10YR 4/1) silty, fine-medium coarse sandy clay
75.5		(SM) Dark gray (10YR 4/1) silty fine-medium coarse sand
76.5		(CL) Dark gray (10YR 4/1) fine sandy silty clay
77.5		(CL) Dark greenish gray (GLE Y1 4/1) clay

Total Depth of Boring 110 Feet

Total Depth of Completed Well 109 Feet

Well Owner

Name California Department of Fish and Game

Mailing Address 407 W. Line Street

City Bishop State CA Zip 93514

Well Location

Address Camp Cady, Mojave Trail

City Newberry Springs County San Bernardino

Latitude 34 56 6 N Longitude 116 36 48 W
Deq. Min. Sec. Deq. Min. Sec.

Datum NAD83 Decimal Lat. 34.935011 Decimal Long. -116.6133

APN Book 0541 Page 011 Parcel 19

Township 10N Range 04E Section 25

Location Sketch

(Sketch must be drawn by hand after form is printed.)

North

West

SEE ATTACHED MAP

East

South

Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. Please be accurate and complete.

Activity

- ☒ New Well
☐ Modification/Repair
☐ Deepen
☐ Other _____
☐ Destroy
Describe procedures and materials under "GEOLOGIC LOG"

Planned Uses

- ☐ Water Supply
☐ Domestic ☐ Public
☐ Irrigation ☐ Industrial
☐ Cathodic Protection
☐ Dewatering
☐ Heat Exchange
☐ Injection
☒ Monitoring
☐ Remediation
☐ Sparging
☐ Test Well
☐ Vapor Extraction
☐ Other _____

Water Level and Yield of Completed Well

Depth to first water _____ (Feet below surface)

Depth to Static _____

Water Level 23 (Feet) Date Measured 06/01/2011

Estimated Yield * _____ (GPM) Test Type _____

Test Length _____ (Hours) Total Drawdown _____ (Feet)

*May not be representative of a well's long term yield.

Casings

Depth from Surface Feet to Feet	Borehole Diameter (Inches)	Type	Material	Wall Thickness (Inches)	Outside Diameter (Inches)	Screen Type	Slot Size if Any (Inches)
0	94	8	Blank	PVC Sch. 80	.276	2.75	
94	104	8	Screen	PVC Sch. 80	.276	2.75	Milled Slots 0.020
104	109	8	Blank	PVC Sch. 80	.276	2.75	

Annular Material

Depth from Surface Feet to Feet	Fill	Description
0	2	Cement
2	74	Cement
74	89	Bentonite
89	110	Filter Pack
		#2/12 graded sand

Attachments

- ☐ Geologic Log
☐ Well Construction Diagram
☐ Geophysical Log(s)
☐ Soil/Water Chemical Analyses
☒ Other Detailed Site Map

Attach additional information, if it exists.

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name Boart Longyear Company

Person, Firm or Corporation

1333 W. 9th Street
Address

Upland
City

CA 91786
State Zip

Signed _____

C-57 Licensed Water Well Contractor

Date Signed _____

694686
C-57 License Number

File Original with DWR

Page 3 of 4

Owner's Well Number Cluster B Intermediate Well

Date Work Began 05/25/2011

Local Permit Agency San Bernardino County DPH EHS

Permit Number 2011040173

Permit Date 4/5/11

State of California

Well Completion Report

Refer to Instruction Pamphlet

No. **e0130329**

DWR Use Only – Do Not Fill In

State Well Number/Site Number

Latitude

Longitude

APN/TRS/Other

Geologic Log

Orientation ☒ Vertical ☐ Horizontal ☐ Angle Specify _____

Drilling Method Sonic Drilling Fluid _____

Depth from Surface

Description

Feet	to Feet	Describe material, grain size, color, etc
80		(SM) Dark gray (10YR 4/1) silty fine-medium coarse sand
81.0		(CL) Dark greenish gray (GLE Y1 4/1) clay
82.5		(ML) Dark greenish gray (GLE Y1 4/1) clayey fine sandy silt
86.5		(CL) Dark greenish gray (GLE Y1 4/1) silty clay (20/80)
87.5		(CL) Dark greenish gray (GLE Y1 4/1) silty clay (50/50)
90.0		(CL) Dark greenish gray (GLE Y1 4/1) silty, fine sandy clay (20/20/60)
91.0		(SM-SC) Dark greenish gray (GLE Y1 4/1) silty, clayey fine sand (20/20/60)
91.5		(CL) Dark greenish gray (GLE Y1 4/1) silty, fine sandy clay (20/20/60)
92.0		(SM) Dark greenish gray (GLE Y1 4/1) silty fine sand (30/70)
92.5		(CL) Dark greenish gray (GLE Y1 4/1) clay
93.5		(CL) Dark greenish gray (GLE Y1 4/1) silty, fine sandy clay
94.0		(SM) Dark greenish gray (GLE Y1 4/1) silty fine sand (40/60)
95.0		(SM) Dark greenish gray (GLE Y1 3/1) silty fine sand (20/80)
96.3		(CL) Dark greenish gray (GLE Y1 3/1) clay
98.3		(SM) Dark greenish gray (GLE Y1 3/1) silty fine sand (30/70)
104.0		(CL) Dark greenish gray (GLE Y1 3/1) silty clay (40/60)

Total Depth of Boring 110 Feet

Total Depth of Completed Well 109 Feet

Well Owner

Name California Department of Fish and Game

Mailing Address 407 W. Line Street

City Bishop State CA Zip 93514

Well Location

Address Camp Cady, Mojave Trail

City Newberry Springs County San Bernardino

Latitude 34 56 6 N Longitude 116 36 48 W
Deq. Min. Sec. Deq. Min. Sec.

Datum NAD83 Decimal Lat. 34.935011 Decimal Long. -116.6133

APN Book 0541 Page 011 Parcel 19

Township 10N Range 04E Section 25

Location Sketch

(Sketch must be drawn by hand after form is printed.)

North

West

SEE ATTACHED MAP

East

South

Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. Please be accurate and complete.

Activity

- ☒ New Well
☐ Modification/Repair
☐ Deepen
☐ Other _____
☐ Destroy
Describe procedures and materials under "GEOLOGIC LOG"

Planned Uses

- ☐ Water Supply
☐ Domestic ☐ Public
☐ Irrigation ☐ Industrial
☐ Cathodic Protection
☐ Dewatering
☐ Heat Exchange
☐ Injection
☒ Monitoring
☐ Remediation
☐ Sparging
☐ Test Well
☐ Vapor Extraction
☐ Other _____

Water Level and Yield of Completed Well

Depth to first water _____ (Feet below surface)

Depth to Static _____

Water Level 23 (Feet) Date Measured 06/01/2011

Estimated Yield * _____ (GPM) Test Type _____

Test Length _____ (Hours) Total Drawdown _____ (Feet)

*May not be representative of a well's long term yield.

Casings

Depth from Surface Feet to Feet	Borehole Diameter (Inches)	Type	Material	Wall Thickness (Inches)	Outside Diameter (Inches)	Screen Type	Slot Size if Any (Inches)
0	94	8	Blank	PVC Sch. 80	.276	2.75	
94	104	8	Screen	PVC Sch. 80	.276	2.75	Milled Slots
104	109	8	Blank	PVC Sch. 80	.276	2.75	

Annular Material

Depth from Surface Feet to Feet	Fill	Description
0	2	Cement
2	74	Cement
74	89	Bentonite
89	110	Filter Pack
		#2/12 graded sand

Attachments

- ☐ Geologic Log
☐ Well Construction Diagram
☐ Geophysical Log(s)
☐ Soil/Water Chemical Analyses
☒ Other Detailed Site Map

Attach additional information, if it exists.

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name Boart Longyear Company

Person, Firm or Corporation

1333 W. 9th Street
Address

Upland
City

CA 91786
State Zip

Signed _____

C-57 Licensed Water Well Contractor

694686
Date Signed

C-57 License Number

File Original with DWR

Page 4 of 4

Owner's Well Number Cluster B Intermediate Well

Date Work Began 05/25/2011

Local Permit Agency San Bernardino County DPH EHS

Permit Number 2011040173

Permit Date 4/5/11

State of California

Well Completion Report

Refer to Instruction Pamphlet

No. **e0130329**

DWR Use Only – Do Not Fill In

State Well Number/Site Number											
Latitude						Longitude					
APN/TRS/Other											

Geologic Log

Orientation ☒ Vertical ☐ Horizontal ☐ Angle Specify _____

Drilling Method Sonic Drilling Fluid _____

Depth from Surface

Description

Feet	to Feet	Describe material, grain size, color, etc
105		(SM) Dark greenish gray (GLE Y1 3/1) silty fine sand (30/70)
107.2		(CL) Dark greenish gray (GLE Y1 3/1) silty clay (30/70)
107.5		(SM) Dark greenish gray (GLE Y1 3/1) silty fine sand (30/70)
108.5		(CL) Dark greenish gray (GLE Y1 3/1) silty clay (30/70)
108.8		(SM) Dark greenish gray (GLE Y1 3/1) silty fine sand (30/70)
109.5	110	(CL) Dark greenish gray (GLE Y1 3/1) silty clay (20/80)

Total Depth of Boring 110 Feet

Total Depth of Completed Well 109 Feet

Well Owner

Name California Department of Fish and Game

Mailing Address 407 W. Line Street

City Bishop State CA Zip 93514

Well Location

Address Camp Cady, Mojave Trail

City Newberry Springs County San Bernardino

Latitude 34 56 6 N Longitude 116 36 48 W
Deq. Min. Sec. Deq. Min. Sec.

Datum NAD83 Decimal Lat. 34.935011 Decimal Long. -116.6133

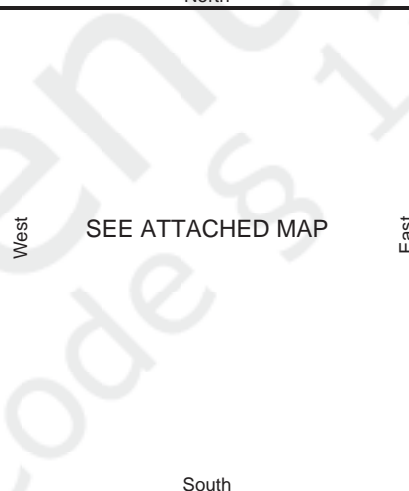
APN Book 0541 Page 011 Parcel 19

Township 10N Range 04E Section 25

Location Sketch

(Sketch must be drawn by hand after form is printed.)

North



Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. Please be accurate and complete.

Activity

- ☒ New Well
☐ Modification/Repair
☐ Deepen
☐ Other _____
☐ Destroy
Describe procedures and materials under "GEOLOGIC LOG"

Planned Uses

- ☐ Water Supply
☐ Domestic ☐ Public
☐ Irrigation ☐ Industrial
☐ Cathodic Protection
☐ Dewatering
☐ Heat Exchange
☐ Injection
☒ Monitoring
☐ Remediation
☐ Sparging
☐ Test Well
☐ Vapor Extraction
☐ Other _____

Water Level and Yield of Completed Well

Depth to first water _____ (Feet below surface)

Depth to Static _____

Water Level 23 (Feet) Date Measured 06/01/2011

Estimated Yield * _____ (GPM) Test Type _____

Test Length _____ (Hours) Total Drawdown _____ (Feet)

*May not be representative of a well's long term yield.

Casings

Depth from Surface Feet to Feet	Borehole Diameter (Inches)	Type	Material	Wall Thickness (Inches)	Outside Diameter (Inches)	Screen Type	Slot Size if Any (Inches)
0	94	8	Blank	PVC Sch. 80	.276	2.75	
94	104	8	Screen	PVC Sch. 80	.276	2.75	Milled Slots 0.020
104	109	8	Blank	PVC Sch. 80	.276	2.75	

Annular Material

Depth from Surface Feet to Feet	Fill	Description
0	2	Cement
2	74	Cement
74	89	Bentonite
89	110	Filter Pack
		#2/12 graded sand

Attachments

- ☐ Geologic Log
☐ Well Construction Diagram
☐ Geophysical Log(s)
☐ Soil/Water Chemical Analyses
☒ Other Detailed Site Map

Attach additional information, if it exists.

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name Boart Longyear Company

Person, Firm or Corporation

1333 W. 9th Street

Address

Upland

City

CA 91786

State Zip

Signed _____

C-57 Licensed Water Well Contractor

Date Signed _____

694686

C-57 License Number

File Original with DWR

Page 1 of 2

Owner's Well Number Cluster B Shallow Well

Date Work Began 05/27/2011

Local Permit Agency San Bernardino County DPH EHS

Permit Number 2011040174

Permit Date 4/5/11

State of California

Well Completion Report

Refer to Instruction Pamphlet

No. **e0130330**

DWR Use Only – Do Not Fill In

State Well Number/Site Number

Latitude

Longitude

APN/TRS/Other

Geologic Log

Orientation ☒ Vertical ☐ Horizontal ☐ Angle Specify _____

Drilling Method Sonic Drilling Fluid _____

Depth from Surface

Description

Feet to Feet Describe material, grain size, color, etc

0		(ML) Pale brown (10YR 6/3) silt
3.5		(SM-SW) Very pale brown (10YR 7/4) silty fine-coarse sand with some gravel
5.0		(CL) Light yellow brown (2.5Y 6/3) silty clay with some orange mottling
6.0		(SM-SW) Reddish yellow (7.5YR 6/6) silty fine-coarse sand with some gravel
6.4		(SM) Very pale brown (10YR 7/4) fine silty sand
7.5		(CL) Olive brown (2.5Y 5/3) silty clay with some orange mottling
11.0		(ML) Light brownish gray (10YR 6/2) fine sandy silt
13.0		(SM-SW) Pale brown (10YR 6/3) silty fine-coarse sand with some gravel
15.0		(ML) Pale brown (10YR 6/3) clayey silt
17.5		Missing
20.0		(SW) Light yellowish brown (10YR 6/4) fine-medium coarse sand
20.6		(SW) Yellowish brown (10YR 5/4) fine-medium coarse sand
22.0		(SW) Light yellowish brown (10YR 6/4) fine-medium coarse sand
22.5		(SW-SC) Pale brown (10YR 6/3) silty fine-medium coarse sand with minor clay
23.7		(SC) Yellowish brown (10YR 5/4) silty clayey fine-medium coarse sand
25.0		(ML) Dark grayish brown (10YR 4/2) micaceous silt
27.5		(SW) Light brownish gray (10YR 6/2) fine-medium coarse sand

Total Depth of Boring 53 Feet

Total Depth of Completed Well 52 Feet

Well Owner

Name California Department of Fish and Game

Mailing Address 407 W. Line Street

City Bishop State CA Zip 93514

Well Location

Address Camp Cady, Mojave Trail

City Newberry Springs County San Bernardino

Latitude 34 56 6 N Longitude 116 36 48 W
Deq. Min. Sec. Deq. Min. Sec.

Datum NAD83 Decimal Lat. 34.934995 Decimal Long. -116.6133

APN Book 0541 Page 011 Parcel 19

Township 10N Range 03E Section 25

Location Sketch

(Sketch must be drawn by hand after form is printed.)

North

West

SEE ATTACHED MAP

East

South

Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. Please be accurate and complete.

Activity

- ☒ New Well
☐ Modification/Repair
☐ Deepen
☐ Other _____
☐ Destroy
Describe procedures and materials under "GEOLOGIC LOG"

Planned Uses

- ☐ Water Supply
☐ Domestic ☐ Public
☐ Irrigation ☐ Industrial
☐ Cathodic Protection
☐ Dewatering
☐ Heat Exchange
☐ Injection
☒ Monitoring
☐ Remediation
☐ Sparging
☐ Test Well
☐ Vapor Extraction
☐ Other _____

Water Level and Yield of Completed Well

Depth to first water _____ (Feet below surface)

Depth to Static _____

Water Level 25 (Feet) Date Measured 06/01/2011

Estimated Yield * _____ (GPM) Test Type _____

Test Length _____ (Hours) Total Drawdown _____ (Feet)

*May not be representative of a well's long term yield.

Casings

Depth from Surface Feet to Feet	Borehole Diameter (Inches)	Type	Material	Wall Thickness (Inches)	Outside Diameter (Inches)	Screen Type	Slot Size if Any (Inches)
0	37	8	Blank	PVC Sch. 80	.276	2.75	
37	47	8	Screen	PVC Sch. 80	.276	2.75	Milled Slots
47	52	8	Blank		.276	2.75	

Annular Material

Depth from Surface Feet to Feet	Fill	Description
0	2	Cement
2	32	Bentonite
32	53	Filter Pack
		#2/12 graded sand

Attachments

- ☐ Geologic Log
☐ Well Construction Diagram
☐ Geophysical Log(s)
☐ Soil/Water Chemical Analyses
☒ Other Detailed Site Map

Attach additional information, if it exists.

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name Boart Longyear Company

Person, Firm or Corporation

1333 W. 9th Street

Address

Upland

City

CA 91786

State

Zip

Signed _____

C-57 Licensed Water Well Contractor

Date Signed _____

694686

C-57 License Number

File Original with DWR

Page 1 of 5

Owner's Well Number Cluster C Deep Well

Date Work Began 06/04/2011

Local Permit Agency San Bernardino County DPH EHS

Permit Number 2011040175 Permit Date 4/5/11

State of California

Well Completion Report

Refer to Instruction Pamphlet

No. **e0130332**

DWR Use Only – Do Not Fill In

State Well Number/Site Number											
Latitude						Longitude					
APN/TRS/Other											

Geologic Log

Orientation ☒ Vertical ☐ Horizontal ☐ Angle Specify _____

Drilling Method Sonic Drilling Fluid _____

Depth from Surface

Description

Feet	to Feet	Description
0		(SW) 10YR 5/4 Yellowish brown fine-coarse sand with minor gravel
6.5		(SM) 10YR 7/3 Pale brown silty fine sand (20/80)
7.5		(CL) 10YR 4/2 Dark grayish brown silty clay (40/60)
8.5		(SM) 10YR 5/3 Brown silty fine-medium coarse sand (30/70)
10.0		(SM-SC) 10YR 5/3 Brown silty, clayey fine sand (20/10/70)
11.5		(CL) 10YR 5/3 Brown silty clay (20/80)
12.5		(SP) 10YR 7/3 Pale brown medium coarse sand
15.0		(CL) GLEY 1 3/1 Dark greenish gray soft silty clay (20/80)
16.5		(SC) GLEY 1 3/1 Dark greenish gray clayey fine sand (50/50)
17.5		(CL) GLEY 1 3/1 Dark greenish gray clay
25.0		(ML) GLEY 1 3/1 Dark greenish gray clayey silt (50/50)
28.0		(CL) GLEY 1 3/1 Dark greenish gray clay
28.5		(SM) GLEY 1 3/1 Dark greenish gray silty fine sand (30/70)
30.0		(SW) GLEY 1 3/1 Dark greenish gray fine-medium coarse sand with minor clay
32.0		(CL) GLEY 1 3/1 Dark greenish gray fine-medium coarse sandy clay (40/60)
32.5		(SC) GLEY 1 3/1 Dark greenish gray clayey fine-medium coarse sand (30/70)
32.8		(SW) GLEY 1 3/1 Dark greenish gray fine-medium coarse sand with minor silt

Total Depth of Boring 205 Feet

Total Depth of Completed Well 200 Feet

Well Owner

Name California Department of Fish and Game

Mailing Address 407 W. Line Street

City Bishop State CA Zip 93514

Well Location

Address Camp Cady, Mojave Trail

City Newberry Springs County San Bernardino

Latitude 34 56 10 N Longitude 116 35 59 W
Deq. Min. Sec. Deq. Min. Sec.

Datum NAD83 Decimal Lat. 34.936206 Decimal Long. -116.5998

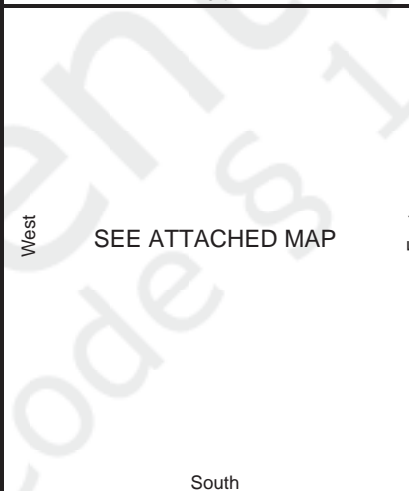
APN Book 0541 Page 011 Parcel 19

Township 10N Range 04E Section 30

Location Sketch

(Sketch must be drawn by hand after form is printed.)

North



South

Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. Please be accurate and complete.

Activity

- ☒ New Well
☐ Modification/Repair
☐ Deepen
☐ Other _____
☐ Destroy
Describe procedures and materials under "GEOLOGIC LOG"

Planned Uses

- ☐ Water Supply
☐ Domestic ☐ Public
☐ Irrigation ☐ Industrial
☐ Cathodic Protection
☐ Dewatering
☐ Heat Exchange
☐ Injection
☒ Monitoring
☐ Remediation
☐ Sparging
☐ Test Well
☐ Vapor Extraction
☐ Other _____

Water Level and Yield of Completed Well

Depth to first water _____ (Feet below surface)

Depth to Static _____

Water Level 24 (Feet) Date Measured 06/08/2011

Estimated Yield * _____ (GPM) Test Type _____

Test Length _____ (Hours) Total Drawdown _____ (Feet)

*May not be representative of a well's long term yield.

Casings

Depth from Surface Feet to Feet	Borehole Diameter (Inches)	Type	Material	Wall Thickness (Inches)	Outside Diameter (Inches)	Screen Type	Slot Size if Any (Inches)
0	175	8	Blank	PVC Sch. 80	.276	2.75	
175	195	8	Screen	PVC Sch. 80	.276	2.75	Milled Slots
195	200	8	Blank	PVC Sch. 80	.276	2.75	

Annular Material

Depth from Surface Feet to Feet	Fill	Description
0	2	Cement
2	145	Cement
145	170	Bentonite
170	200	Filter Pack
200	205	Fill

Attachments

- ☐ Geologic Log
☐ Well Construction Diagram
☐ Geophysical Log(s)
☐ Soil/Water Chemical Analyses
☒ Other Detailed Site Map

Attach additional information, if it exists.

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name Boart Longyear Company

Person, Firm or Corporation

1333 W. 9th Street
Address

Upland
City

CA 91786
State Zip

Signed _____

C-57 Licensed Water Well Contractor

Date Signed _____

694686

C-57 License Number

File Original with DWR

Page 2 of 5

Owner's Well Number Cluster C Deep Well

Date Work Began 06/04/2011

Local Permit Agency San Bernardino County DPH EHS

Permit Number 2011040175 Permit Date 4/5/11

State of California

Well Completion Report

Refer to Instruction Pamphlet

No. **e0130332**

DWR Use Only – Do Not Fill In

State Well Number/Site Number

Latitude

Longitude

APN/TRS/Other

Geologic Log

Orientation ☒ Vertical ☐ Horizontal ☐ Angle Specify _____

Drilling Method Sonic Drilling Fluid _____

Depth from Surface

Description

Feet	to Feet	Describe material, grain size, color, etc
35		(SC) 10YR 5/3 Brown clayey fine-medium coarse sand (30/70)
36.8		(CL) 10YR 5/3 Brown fine-medium coarse sandy clay (30/70)
38.0		(SC) 10YR 5/3 Brown clayey fine-medium coarse sand (40/60)
40.5		(CL) 10YR 5/3 Brown fine-medium coarse sandy clay (20/80)
41.5		(SC-SM) 10YR 5/3 Brown clayey, silty fine sand (30/30/40)
42.5		(SW) 10YR 5/3 Brown fine-medium coarse sand with minor silt
43.0		(ML) 10YR 5/3 Brown fine sandy silt (40/60)
44.3		(CL) 10YR 5/3 Brown fine sandy, silty clay (30/30/40)
45.8		(ML) 10YR 5/3 Brown clayey silt (20/80)
46.8		(ML) 10YR 5/3 Brown clayey silt (40/60)
47.5		(SM) 10YR 5/3 Brown silty fine-medium coarse sand (20/80)
48.1		(CL) 10YR 5/3 Brown silty clay (20/80)
50.0		(ML) 10YR 5/3 Brown clayey, fine sandy silt (30/20/50)
51.0		(CL) 10YR 5/3 Brown clay
52.5		(SC) 10YR 5/3 Brown clayey fine-coarse sand (30/70)
54.5		(CL) 10YR 5/3 Brown silty clay (40/60)
55.0		(CL) GLEY1 4/1 Dark greenish gray clay; some fine-medium coarse sand @57-58'
60.0		(CL) 10YR 3/2 Very dark grayish brown clay

Total Depth of Boring 205 Feet

Total Depth of Completed Well 200 Feet

Well Owner

Name California Department of Fish and Game

Mailing Address 407 W. Line Street

City Bishop State CA Zip 93514

Well Location

Address Camp Cady, Mojave Trail

City Newberry Springs County San Bernardino

Latitude 34 56 10 N Longitude 116 35 59 W
Deq. Min. Sec. Deq. Min. Sec.

Datum NAD83 Decimal Lat. 34.936206 Decimal Long. -116.5998

APN Book 0541 Page 011 Parcel 19

Township 10N Range 04E Section 30

Location Sketch

(Sketch must be drawn by hand after form is printed.)

North

West

SEE ATTACHED MAP

East

South

Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. Please be accurate and complete.

Activity

- ☒ New Well
☐ Modification/Repair
☐ Deepen
☐ Other _____
☐ Destroy
Describe procedures and materials under "GEOLOGIC LOG"

Planned Uses

- ☐ Water Supply
☐ Domestic ☐ Public
☐ Irrigation ☐ Industrial
☐ Cathodic Protection
☐ Dewatering
☐ Heat Exchange
☐ Injection
☒ Monitoring
☐ Remediation
☐ Sparging
☐ Test Well
☐ Vapor Extraction
☐ Other _____

Water Level and Yield of Completed Well

Depth to first water _____ (Feet below surface)

Depth to Static _____

Water Level 24 (Feet) Date Measured 06/08/2011

Estimated Yield * _____ (GPM) Test Type _____

Test Length _____ (Hours) Total Drawdown _____ (Feet)

*May not be representative of a well's long term yield.

Casings

Depth from Surface Feet to Feet	Borehole Diameter (Inches)	Type	Material	Wall Thickness (Inches)	Outside Diameter (Inches)	Screen Type	Slot Size if Any (Inches)
0	175	8	Blank	PVC Sch. 80	.276	2.75	
175	195	8	Screen	PVC Sch. 80	.276	2.75	Milled Slots
195	200	8	Blank	PVC Sch. 80	.276	2.75	

Annular Material

Depth from Surface Feet to Feet	Fill	Description
0	2	Cement
2	145	Cement
145	170	Bentonite
170	200	Filter Pack
200	205	Fill
		Concrete
		Cement/bent. grout
		Hydrated pellets
		#2/12 graded sand
		Native Cuttings

Attachments

- ☐ Geologic Log
☐ Well Construction Diagram
☐ Geophysical Log(s)
☐ Soil/Water Chemical Analyses
☒ Other Detailed Site Map

Attach additional information, if it exists.

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name Boart Longyear Company

Person, Firm or Corporation

1333 W. 9th Street
Address

Upland
City

CA 91786
State Zip

Signed _____

C-57 Licensed Water Well Contractor

694686
Date Signed

C-57 License Number

File Original with DWR

Page 3 of 5

Owner's Well Number Cluster C Deep Well

Date Work Began 06/04/2011

Local Permit Agency San Bernardino County DPH EHS

Permit Number 2011040175 Permit Date 4/5/11

State of California

Well Completion Report

Refer to Instruction Pamphlet

No. **e0130332**

DWR Use Only – Do Not Fill In	
State Well Number/Site Number	
Latitude	Longitude
APN/TRS/Other	

Geologic Log		
Orientation <input checked="" type="radio"/> Vertical <input type="radio"/> Horizontal <input type="radio"/> Angle Specify _____		
Drilling Method <u>Sonic</u> Drilling Fluid _____		
Depth from Surface	Description	
Feet to Feet	Describe material, grain size, color, etc	
65	(CL) GLEY1 4/1 Dark greenish gray clay; some fine-medium coarse sand @66-67.5'	
72.0	(SM) GLEY1 4/1 Dark greenish gray fine silty sand	
73.0	(CL) GLEY1 4/1 Dark greenish gray fine sandy clay (30/70)	
74.5	(SP) GLEY1 4/1 Dark greenish gray fine sand	
75.5	(CL) GLEY1 4/1 Dark greenish gray clay	
85.0	(SM) GLEY1 4/1 Dark greenish gray silty fine sand (40/60)	
86.0	(CL) GLEY1 4/1 Dark greenish gray clay	
90.0	(SC) GLEY1 4/1 Dark greenish gray clayey fine-coarse sand (30/70)	
92.0	(CL) GLEY1 4/1 Dark greenish gray clay	
92.5	(SC) GLEY1 4/1 Dark greenish gray clayey fine-coarse sand (20/80)	
95.0	Sample cannot be recovered (driller comment: probably relatively high sand content)	
105.0	(SM) GLEY1 4/1 Dark greenish gray silty fine-medium coarse sand (20/80)	
108.0	(SM) GLEY1 4/1 Dark greenish gray silty fine sand (50/50)	
109.0	(CL) GLEY1 4/1 Dark greenish gray clay	
111.3	(SM) GLEY1 4/1 Dark greenish gray silty fine sand (30/70)	
112.0	(CL) GLEY1 4/1 Dark greenish gray silty clay (30/70)	
112.5	(SM) GLEY1 4/1 Dark greenish gray silty fine sand (30/70)	
Total Depth of Boring <u>205</u> Feet		
Total Depth of Completed Well <u>200</u> Feet		

Well Owner	
Name <u>California Department of Fish and Game</u>	
Mailing Address <u>407 W. Line Street</u>	
City <u>Bishop</u>	State <u>CA</u> Zip <u>93514</u>

Well Location	
Address <u>Camp Cady, Mojave Trail</u>	
City <u>Newberry Springs</u>	County <u>San Bernardino</u>
Latitude <u>34</u> <u>56</u> <u>10</u> N Longitude <u>116</u> <u>35</u> <u>59</u> W	
Dec. Min. Sec.	Dec. Min. Sec.
Datum <u>NAD83</u>	Decimal Lat. <u>34.936206</u> Decimal Long. <u>-116.5998</u>
APN Book <u>0541</u> Page <u>011</u>	Parcel <u>19</u>
Township <u>10N</u> Range <u>04E</u>	Section <u>30</u>

Location Sketch	Activity
(Sketch must be drawn by hand after form is printed.)	<input checked="" type="radio"/> New Well
North	<input type="radio"/> Modification/Repair
West SEE ATTACHED MAP East	<input type="radio"/> Deepen
	<input type="radio"/> Other _____
South	<input type="radio"/> Destroy
Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. Please be accurate and complete.	Describe procedures and materials under "GEOLOGIC LOG"
Planned Uses	
	<input type="radio"/> Water Supply
	<input type="checkbox"/> Domestic <input type="checkbox"/> Public
	<input type="checkbox"/> Irrigation <input type="checkbox"/> Industrial
	<input type="radio"/> Cathodic Protection
	<input type="radio"/> Dewatering
	<input type="radio"/> Heat Exchange
	<input type="radio"/> Injection
	<input checked="" type="radio"/> Monitoring
	<input type="radio"/> Remediation
	<input type="radio"/> Sparging
	<input type="radio"/> Test Well
	<input type="radio"/> Vapor Extraction
	<input type="radio"/> Other _____

Water Level and Yield of Completed Well	
Depth to first water _____	(Feet below surface)
Depth to Static _____	
Water Level <u>24</u>	(Feet) Date Measured <u>06/08/2011</u>
Estimated Yield * _____	(GPM) Test Type _____
Test Length _____	(Hours) Total Drawdown _____ (Feet)
*May not be representative of a well's long term yield.	

Casings								Annular Material				
Depth from Surface	Borehole Diameter	Type	Material	Wall Thickness	Outside Diameter	Screen Type	Slot Size	Depth from Surface	Fill	Description		
Feet to Feet	Inches			Inches	Inches		If Any (Inches)	Feet to Feet				
0	175	8	Blank	PVC Sch. 80	.276	2.75		0	2	Cement	Concrete	
175	195	8	Screen	PVC Sch. 80	.276	2.75	Milled Slots	0.020	2	145	Cement	Cement/bent. grout
195	200	8	Blank	PVC Sch. 80	.276	2.75			145	170	Bentonite	Hydrated pellets
									170	200	Filter Pack	#2/12 graded sand
									200	205	Fill	Native Cuttings

Attachments	Certification Statement
<input type="checkbox"/> Geologic Log <input type="checkbox"/> Well Construction Diagram <input type="checkbox"/> Geophysical Log(s) <input type="checkbox"/> Soil/Water Chemical Analyses <input checked="" type="checkbox"/> Other <u>Detailed Site Map</u>	<p>I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief</p> <p>Name <u>Boart Longyear Company</u></p> <p>Person, Firm or Corporation</p> <p><u>1333 W. 9th Street</u> <u>Upland</u> <u>CA</u> <u>91786</u></p> <p>Address City State Zip</p> <p>Signed _____ Date Signed _____</p> <p>C-57 Licensed Water Well Contractor C-57 License Number <u>694686</u></p>

Attach additional information, if it exists.

File Original with DWR

Page 4 of 5

Owner's Well Number Cluster C Deep Well

Date Work Began 06/04/2011 Date Work Ended 6/7/2011

Local Permit Agency San Bernardino County DPH EHS

Permit Number 2011040175 Permit Date 4/5/11

Well Completion Report

Refer to Instruction Pamphlet

No. **e0130332**

DWR Use Only – Do Not Fill In

State Well Number/Site Number											
Latitude						Longitude					
APN/TRS/Other											

Geologic Log

Orientation ☒ Vertical ☐ Horizontal ☐ Angle Specify _____

Drilling Method Sonic Drilling Fluid _____

Depth from Surface

Feet to Feet

Description

Describe material, grain size, color, etc

113.5		(CL) GLEY1 4/1 Dark greenish gray silty clay (30/70)
114.5		(SM-SC) GLEY1 4/1 Dark greenish gray silty, clayey fine-medium coarse sand (20/20/60)
116.5		(CL) GLEY1 4/1 Dark greenish gray clay
119.0		(CL) GLEY1 4/1 Dark greenish gray silty clay (40/60)
120.0		(CL) GLEY1 4/1 Dark greenish gray clay; some fine sand @ 121-121.3
123.0		(CL) GLEY1 4/1 Dark greenish gray fine medium coarse sandy clay (30/70)
125.7		(CL) GLEY1 4/1 Dark greenish gray clay
126.2		(CL) GLEY1 4/1 Dark greenish gray fine sandy silty clay (20/20/60)
128.5		(ML) GLEY1 4/1 Dark greenish gray clayey micaceous silt
132.0		(CL) GLEY1 4/1 Dark greenish gray fine-medium coarse sandy clay (20/80)
132.5		(SM) GLEY1 4/1 Dark greenish gray silty fine sand (40/60)
133.5		(CL) GLEY1 4/1 Dark greenish gray clay
134.2		(SC-SM) GLEY1 4/1 Dark greenish gray clayey silty fine-medium coarse sand (20/20/60)
135.0		(CL) GLEY1 4/1 Dark greenish gray fine-medium coarse sandy clay (20/80)
135.5		(CL) GLEY1 4/1 Dark greenish gray clay
136.3		(SW) GLEY1 4/1 Dark greenish gray fine-coarse sand
138.5		(CL) GLEY1 4/1 Dark greenish gray clayey, silty fine-medium coarse sand (20/20/60)

Total Depth of Boring 205 Feet

Total Depth of Completed Well 200 Feet

Well Owner

Name California Department of Fish and Game

Mailing Address 407 W. Line Street

City Bishop State CA Zip 93514

Well Location

Address Camp Cady, Mojave Trail

City Newberry Springs County San Bernardino

Latitude 34 56 10 N Longitude 116 35 59 W
Deq. Min. Sec. Deq. Min. Sec.

Datum NAD83 Decimal Lat. 34.936206 Decimal Long. -116.5998

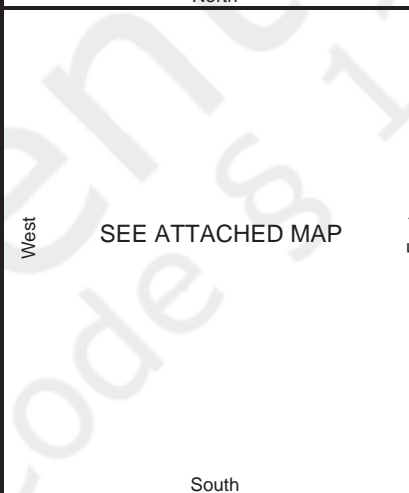
APN Book 0541 Page 011 Parcel 19

Township 10N Range 04E Section 30

Location Sketch

(Sketch must be drawn by hand after form is printed.)

North



South

Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. Please be accurate and complete.

Activity

- ☒ New Well
☐ Modification/Repair
☐ Deepen
☐ Other _____
☐ Destroy
Describe procedures and materials under "GEOLOGIC LOG"

Planned Uses

- ☐ Water Supply
☐ Domestic ☐ Public
☐ Irrigation ☐ Industrial
☐ Cathodic Protection
☐ Dewatering
☐ Heat Exchange
☐ Injection
☒ Monitoring
☐ Remediation
☐ Sparging
☐ Test Well
☐ Vapor Extraction
☐ Other _____

Water Level and Yield of Completed Well

Depth to first water _____ (Feet below surface)

Depth to Static _____

Water Level 24 (Feet) Date Measured 06/08/2011

Estimated Yield * _____ (GPM) Test Type _____

Test Length _____ (Hours) Total Drawdown _____ (Feet)

*May not be representative of a well's long term yield.

Casings

Depth from Surface Feet to Feet	Borehole Diameter (Inches)	Type	Material	Wall Thickness (Inches)	Outside Diameter (Inches)	Screen Type	Slot Size if Any (Inches)
0	175	8	Blank	PVC Sch. 80	.276	2.75	
175	195	8	Screen	PVC Sch. 80	.276	2.75	Milled Slots
195	200	8	Blank	PVC Sch. 80	.276	2.75	

Annular Material

Depth from Surface Feet to Feet	Fill	Description
0	2	Cement
2	145	Cement
145	170	Bentonite
170	200	Filter Pack
200	205	Fill
		Concrete
		Cement/bent. grout
		Hydrated pellets
		#2/12 graded sand
		Native Cuttings

Attachments

- ☐ Geologic Log
☐ Well Construction Diagram
☐ Geophysical Log(s)
☐ Soil/Water Chemical Analyses
☒ Other Detailed Site Map

Attach additional information, if it exists.

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name Boart Longyear Company

Person, Firm or Corporation

1333 W. 9th Street

Address

Upland

City

CA 91786

State Zip

Signed _____

C-57 Licensed Water Well Contractor

Date Signed _____

694686

C-57 License Number

File Original with DWR

Page 1 of 2

Owner's Well Number Cluster C Shallow Well

Date Work Began 06/07/2011

Local Permit Agency San Bernardino County DPH EHS

Permit Number 2011040177

Permit Date 4/5/11

State of California

Well Completion Report

Refer to Instruction Pamphlet

No. **e0130334**

DWR Use Only - Do Not Fill In

State Well Number/Site Number

Latitude

Longitude

APN/TRS/Other

Geologic Log

Orientation ☒ Vertical ☐ Horizontal ☐ Angle Specify _____

Drilling Method Sonic Drilling Fluid _____

Depth from Surface

Description

Feet to Feet Describe material, grain size, color, etc

0		(SW) 10YR 5/4 Yellowish brown fine-coarse sand with minor gravel
6.5		(SM) 10YR 7/3 Pale brown silty fine sand (20/80)
7.5		(CL) 10YR 4/2 Dark grayish brown silty clay (40/60)
8.5		(SM) 10YR 5/3 Brown silty fine-medium coarse sand (30/70)
10.0		(SM-SC) 10YR 5/3 Brown silty, clayey fine sand (20/10/70)
11.5		(CL) 10YR 5/3 Brown silty clay (20/80)
12.5		(SP) 10YR 7/3 Pale brown medium coarse sand
15.0		(CL) GLEY 1 3/1 Dark greenish gray soft silty clay (20/80)
16.5		(SC) GLEY 1 3/1 Dark greenish gray clayey fine sand (50/50)
17.5		(CL) GLEY 1 3/1 Dark greenish gray clay
25.0		(ML) GLEY 1 3/1 Dark greenish gray clayey silt (50/50)
28.0		(CL) GLEY 1 3/1 Dark greenish gray clay
28.5		(SM) GLEY 1 3/1 Dark greenish gray silty fine sand (30/70)
30.0		(SW) GLEY 1 3/1 Dark greenish gray fine-medium coarse sand with minor clay
32.0		(CL) GLEY 1 3/1 Dark greenish gray fine-medium coarse sandy clay (40/60)
32.5		(SC) GLEY 1 3/1 Dark greenish gray clayey fine-medium coarse sand (30/70)
32.8		(SW) GLEY 1 3/1 Dark greenish gray fine-medium coarse sand with minor silt

Total Depth of Boring 39 Feet

Total Depth of Completed Well 38 Feet

Well Owner

Name California Department of Fish and Game

Mailing Address 407 W. Line Street

City Bishop State CA Zip 93514

Well Location

Address Camp Cady, Mojave Trail

City Newberry Springs County San Bernardino

Latitude 34 56 10 N Longitude 116 36 60 W
Deq. Min. Sec. Deq. Min. Sec.

Datum NAD83 Decimal Lat. 34.936211 Decimal Long. -116.5999

APN Book 0541 Page 011 Parcel 19

Township 10N Range 04E Section 30

Location Sketch

(Sketch must be drawn by hand after form is printed.)

North

West

SEE ATTACHED MAP

East

South

Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. Please be accurate and complete.

Activity

- ☒ New Well
☐ Modification/Repair
☐ Deepen
☐ Other _____
☐ Destroy
Describe procedures and materials under "GEOLOGIC LOG"

Planned Uses

- ☐ Water Supply
☐ Domestic ☐ Public
☐ Irrigation ☐ Industrial
☐ Cathodic Protection
☐ Dewatering
☐ Heat Exchange
☐ Injection
☒ Monitoring
☐ Remediation
☐ Sparging
☐ Test Well
☐ Vapor Extraction
☐ Other _____

Water Level and Yield of Completed Well

Depth to first water _____ (Feet below surface)

Depth to Static _____

Water Level 17 (Feet) Date Measured 06/08/2011

Estimated Yield * _____ (GPM) Test Type _____

Test Length _____ (Hours) Total Drawdown _____ (Feet)

*May not be representative of a well's long term yield.

Casings

Depth from Surface Feet to Feet	Borehole Diameter (Inches)	Type	Material	Wall Thickness (Inches)	Outside Diameter (Inches)	Screen Type	Slot Size if Any (Inches)
0	13	8	Blank	PVC Sch. 80	.276	2.75	
13	18	8	Screen	PVC Sch. 80	.276	2.75	Milled Slots
18	28	8	Blank	PVC Sch. 80	.276	2.75	
28	33	8	Screen	PVC Sch. 80	.276	2.75	Milled Slots
33	38	8	Blank	PVC Sch. 80	.276	2.75	

Annular Material

Depth from Surface Feet to Feet	Fill	Description
0	2	Cement
2	8	Bentonite
8	39	Filter Pack
		#2/12 graded sand

Attachments

- ☐ Geologic Log
☐ Well Construction Diagram
☐ Geophysical Log(s)
☐ Soil/Water Chemical Analyses
☒ Other Detailed Site Map

Attach additional information, if it exists.

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name Boart Longyear Company

Person, Firm or Corporation

1333 W. 9th Street

Address

Upland

City

CA 91786

State

Zip

Signed _____

C-57 Licensed Water Well Contractor

Date Signed _____

694686

C-57 License Number

File Original with DWR

Page 1 of 4

Owner's Well Number Cluster D Shallow Well

Date Work Began 06/08/2011

Local Permit Agency San Bernardino County DPH EHS

Permit Number 2011040180 Permit Date 4/5/11

State of California

Well Completion Report

Refer to Instruction Pamphlet

No. **e0130337**

DWR Use Only – Do Not Fill In	
State Well Number/Site Number	
Latitude	Longitude
APN/TRS/Other	

Geologic Log		
Orientation <input checked="" type="radio"/> Vertical <input type="radio"/> Horizontal <input type="radio"/> Angle Specify _____		
Drilling Method <u>Sonic</u> Drilling Fluid _____		
Depth from Surface	Description	
Feet to Feet	Describe material, grain size, color, etc	
0	(SW) 10YR 7/3 Very pale brown fine-coarse sand with some gravel	
4.5	(CL) 10YR 5/2 Grayish brown silty micaceous clay (40/60)	
5.0	(SW) 10YR 7/3 Very pale brown fine-coarse sand	
6.0	(CL) 10YR 4/3 Brown fine-coarse sandy clay (30/70)	
6.4	(SP) 10YR 6/3 Pale brown fine sand	
10.0	(ML) GLEY1 3/1 Dark greenish gray clayey silt (40/60)	
10.7	(CL) GLEY1 3/1 Dark greenish gray clay	
11.2	(ML) GLEY1 3/1 Dark greenish gray clayey silt (40/60)	
12.5	(CL) GLEY1 3/1 Dark greenish gray clay	
14.0	(ML) GLEY1 3/1 Dark greenish gray fine sandy clayey silt (40/10/50)	
15.0	(CL) GLEY1 4/1 Dark greenish gray clay; sandy clay @22-22.5 (20/80)	
22.5	(SM-SC) GLEY1 4/1 Dark greenish gray silty, clayey sand (30/10/60)	
24.5	(CL) GLEY1 4/1 Dark greenish gray clay	
25.0	(CL) GLEY1 4/1 Dark greenish gray fine sandy clay (30/70)	
26.8	(SM-SC) GLEY1 4/1 Dark greenish gray silty, clayey fine sand (20/20/60)	
27.5	(SW) GLEY1 4/1 Dark greenish gray fine-coarse sand	
35.0	(CL) 10YR 4/3 Brown fine sandy clay (20/80)	
38.8	(CL) GLEY1 4/1 Dark greenish gray clay	
Total Depth of Boring <u>195</u> Feet		
Total Depth of Completed Well <u>40</u> Feet		

Well Owner	
Name <u>California Department of Fish and Game</u>	
Mailing Address <u>407 W. Line Street</u>	
City <u>Bishop</u>	State <u>CA</u> Zip <u>93514</u>

Well Location	
Address <u>Camp Cady, Mojave Trail</u>	
City <u>Newberry Springs</u>	County <u>San Bernardino</u>
Latitude <u>34</u> <u>56</u> <u>20</u> N Longitude <u>116</u> <u>35</u> <u>23</u> W	
Dec. Min. Sec.	Dec. Min. Sec.
Datum <u>NAD83</u>	Decimal Lat. <u>34.938804</u> Decimal Long. <u>-116.5897</u>
APN Book <u>0541</u> Page <u>011</u>	Parcel <u>19</u>
Township <u>10N</u> Range <u>04E</u>	Section <u>20</u>

Location Sketch	Activity
(Sketch must be drawn by hand after form is printed.)	<input checked="" type="radio"/> New Well <input type="radio"/> Modification/Repair <input type="radio"/> Deepen <input type="radio"/> Other _____ <input type="radio"/> Destroy Describe procedures and materials under "GEOLOGIC LOG"
North SEE ATTACHED MAP South	Planned Uses <input type="radio"/> Water Supply <input type="checkbox"/> Domestic <input type="checkbox"/> Public <input type="checkbox"/> Irrigation <input type="checkbox"/> Industrial <input type="radio"/> Cathodic Protection <input type="radio"/> Dewatering <input type="radio"/> Heat Exchange <input type="radio"/> Injection <input checked="" type="radio"/> Monitoring <input type="radio"/> Remediation <input type="radio"/> Sparging <input type="radio"/> Test Well <input type="radio"/> Vapor Extraction <input type="radio"/> Other _____

Water Level and Yield of Completed Well	
Depth to first water _____ (Feet below surface)	
Depth to Static _____	
Water Level <u>28</u> (Feet)	Date Measured <u>06/12/2011</u>
Estimated Yield * _____ (GPM)	Test Type _____
Test Length _____ (Hours)	Total Drawdown _____ (Feet)
*May not be representative of a well's long term yield.	

Casings								Annular Material				
Depth from Surface	Borehole Diameter	Type	Material	Wall Thickness	Outside Diameter	Screen Type	Slot Size	Depth from Surface	Fill	Description		
Feet to Feet	Inches			Inches	Inches		Inches	Feet to Feet				
0	25	8	Blank	PVC Sch. 80	.276	2.75		0	2	Cement	Concrete	
25	35	8	Screen	PVC Sch. 80	.276	2.75	Milled Slots	0.020	2	20	Bentonite	Hydrated pellets
35	40	8	Blank	PVC Sch. 80	.276	2.75			20	41	Filter Pack	#2/12 graded sand

Attachments	Certification Statement
<input type="checkbox"/> Geologic Log <input type="checkbox"/> Well Construction Diagram <input type="checkbox"/> Geophysical Log(s) <input type="checkbox"/> Soil/Water Chemical Analyses <input checked="" type="checkbox"/> Other <u>Detailed Site Map</u>	I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief Name <u>Boart Longyear Company</u> Person, Firm or Corporation <u>1333 W. 9th Street</u> <u>Upland</u> <u>CA</u> <u>91786</u> Address City State Zip Signed _____ Date Signed _____ C-57 Licensed Water Well Contractor C-57 License Number

Attach additional information, if it exists.

File Original with DWR

Page 2 of 4

Owner's Well Number Cluster D Shallow Well

Date Work Began 06/08/2011

Local Permit Agency San Bernardino County DPH EHS

Permit Number 2011040180

Permit Date 4/5/11

State of California

Well Completion Report

Refer to Instruction Pamphlet

No. **e0130337**

DWR Use Only – Do Not Fill In	
State Well Number/Site Number	
Latitude	Longitude
APN/TRS/Other	

Geologic Log		
Orientation <input checked="" type="radio"/> Vertical <input type="radio"/> Horizontal <input type="radio"/> Angle Specify _____		
Drilling Method <u>Sonic</u> Drilling Fluid _____		
Depth from Surface	Description	
Feet to Feet	Describe material, grain size, color, etc	
42.5	(CL) GLEY1 4/1 Dark greenish gray fine-medium x	
	(CL) GLEY1 4/1 Dark greenish gray fine-medium	
43.0	(SC) GLEY1 4/1 Dark greenish gray clayey fine-medium coarse sand (30/70)	
43.8	(CL) GLEY1 4/1 Dark greenish gray clay with trace fine sand	
47.1	(CL) 10YR 4/3 Brown fine sandy clay (20/80)	
55.0	(CL) GLEY1 4/1 Dark greenish gray clay	
57.5	(CL) GLEY1 4/1 Dark greenish gray fine sandy, silty clay (30/30/40)	
58.8	(CL) GLEY1 4/1 Dark greenish gray clay	
67.5	(CL) GLEY1 4/1 Dark greenish gray fine-medium coarse sandy clay (30/70)	
68.0	(CL) GLEY1 4/1 Dark greenish gray clay	
77.5	(SC-SW) GLEY1 4/1 Dark greenish gray clayey fine-medium coarse sand (30/70)	
78.5	(CL) GLEY1 4/1 Dark greenish gray fine sandy clay (30/70)	
81.5	(SC-SW) GLEY1 4/1 Dark greenish gray clayey fine-medium coarse sand (30/70)	
83.0	(ML) GLEY1 4/1 Dark greenish gray clayey fine sandy silt (30/30/40)	
85.0	(CL) GLEY1 4/1 Dark greenish gray silty, fine sandy clay (20/20/60)	
90.5	(SM-SW) GLEY1 4/1 Dark greenish gray silty fine-medium coarse sand (20/80)	
92.5	(CL) GLEY1 4/1 Dark greenish gray fine sandy, silty clay (20/20/60)	
93.5	(SM) GLEY1 4/1 Dark greenish gray silty fine-medium coarse sand (20/80)	
Total Depth of Boring <u>195</u> Feet		
Total Depth of Completed Well <u>40</u> Feet		

Well Owner	
Name <u>California Department of Fish and Game</u>	
Mailing Address <u>407 W. Line Street</u>	
City <u>Bishop</u>	State <u>CA</u> Zip <u>93514</u>

Well Location	
Address <u>Camp Cady, Mojave Trail</u>	
City <u>Newberry Springs</u>	County <u>San Bernardino</u>
Latitude <u>34</u> <u>56</u> <u>20</u> N Longitude <u>116</u> <u>35</u> <u>23</u> W	
Dec. Min. Sec.	Dec. Min. Sec.
Datum <u>NAD83</u>	Decimal Lat. <u>34.938804</u> Decimal Long. <u>-116.5897</u>
APN Book <u>0541</u> Page <u>011</u> Parcel <u>19</u>	
Township <u>10N</u> Range <u>04E</u> Section <u>20</u>	

Location Sketch	Activity
(Sketch must be drawn by hand after form is printed.)	<input checked="" type="radio"/> New Well <input type="radio"/> Modification/Repair <input type="radio"/> Deepen <input type="radio"/> Other _____ <input type="radio"/> Destroy <small>Describe procedures and materials under "GEOLOGIC LOG"</small>
North	Planned Uses <input type="radio"/> Water Supply <input type="checkbox"/> Domestic <input type="checkbox"/> Public <input type="checkbox"/> Irrigation <input type="checkbox"/> Industrial <input type="radio"/> Cathodic Protection <input type="radio"/> Dewatering <input type="radio"/> Heat Exchange <input type="radio"/> Injection <input checked="" type="radio"/> Monitoring <input type="radio"/> Remediation <input type="radio"/> Sparging <input type="radio"/> Test Well <input type="radio"/> Vapor Extraction <input type="radio"/> Other _____
SEE ATTACHED MAP	
South	
<small>Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. Please be accurate and complete.</small>	

Water Level and Yield of Completed Well	
Depth to first water _____ (Feet below surface)	
Depth to Static _____	
Water Level <u>28</u> (Feet) Date Measured <u>06/12/2011</u>	
Estimated Yield * _____ (GPM) Test Type _____	
Test Length _____ (Hours) Total Drawdown _____ (Feet)	
*May not be representative of a well's long term yield.	

Casings								Annular Material				
Depth from Surface	Borehole Diameter	Type	Material	Wall Thickness	Outside Diameter	Screen Type	Slot Size	Depth from Surface	Fill	Description		
Feet to Feet	(Inches)			(Inches)	(Inches)		if Any (Inches)	Feet to Feet				
0	25	8	Blank	PVC Sch. 80	.276	2.75		0	2	Cement	Concrete	
25	35	8	Screen	PVC Sch. 80	.276	2.75	Milled Slots	0.020	2	20	Bentonite	Hydrated pellets
35	40	8	Blank	PVC Sch. 80	.276	2.75			20	41	Filter Pack	#2/12 graded sand

Attachments	Certification Statement
<input type="checkbox"/> Geologic Log <input type="checkbox"/> Well Construction Diagram <input type="checkbox"/> Geophysical Log(s) <input type="checkbox"/> Soil/Water Chemical Analyses <input checked="" type="checkbox"/> Other <u>Detailed Site Map</u>	I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief Name <u>Boart Longyear Company</u> <small>Person, Firm or Corporation</small> <u>1333 W. 9th Street</u> <u>Upland</u> <u>CA</u> <u>91786</u> <small>Address City State Zip</small> Signed _____ Date Signed _____ <small>C-57 Licensed Water Well Contractor C-57 License Number</small>

Attach additional information, if it exists.

File Original with DWR

Page 3 of 4

Owner's Well Number Cluster D Shallow Well

Date Work Began 06/08/2011

Local Permit Agency San Bernardino County DPH EHS

Permit Number 2011040180

Permit Date 4/5/11

State of California

Well Completion Report

Refer to Instruction Pamphlet

No. **e0130337**

Date Work Ended 6/10/2011

DWR Use Only - Do Not Fill In

State Well Number/Site Number

Latitude

Longitude

APN/TRS/Other

Geologic Log

Orientation ☒ Vertical ☐ Horizontal ☐ Angle Specify _____

Drilling Method Sonic Drilling Fluid _____

Depth from Surface

Description

Feet	to Feet	Describe material, grain size, color, etc
95.5		(CL) GLEY1 4/1 Dark greenish gray fine-medium coarse sandy clay (20/80)
98.5		(SC-SW) GLEY1 4/1 Dark greenish gray clayey fine-coarse sand (20/80)
99.0		(CL) GLEY1 4/1 Dark greenish gray fine sandy clay (30/70)
99.5		(CL) GLEY1 4/1 Dark greenish gray clay
100.8		(SW-SM) GLEY1 4/1 Dark greenish gray silty fine sand (30/70)
103.2		(CL) GLEY1 4/1 Dark greenish gray clay
109.0		(ROCK) 2.5YR 7/3 Light reddish brown rock (indurated, granitic)
110.0		(SC-SW) GLEY 3/1 Dark greenish gray clayey fine-medium coarse sand (20/80)
112.5		(CL) GLEY1 4/1 Dark greenish gray fine-coarse sandy clay (30/70)
115.0		(ROCK) GLEY1 8/ White and GLEY1 5/1 Greenish gray clay (very hard; cemented; olivine-rich; friable)
122.5		(CL) GLEY1 4/1 Dark greenish gray fine-coarse sandy clay (30/70)
125.0		(CL) 10YR 4/3 Brown fine-medium coarse sandy clay
127.5		(ROCK) 10YR 4/3 Brown cemented sand (very hard; friable)
135.0		(ROCK) GLEY1 8/ White and GLEY1 5/1 Greenish gray claystone (cemented; friable)
135.5		(SC-SC) GLEY1 4/1 Dark greenish gray clayey, silty fine-medium coarse sand (30/30/40)

Total Depth of Boring 195 Feet

Total Depth of Completed Well 40 Feet

Well Owner

Name California Department of Fish and Game

Mailing Address 407 W. Line Street

City Bishop State CA Zip 93514

Well Location

Address Camp Cady, Mojave Trail

City Newberry Springs County San Bernardino

Latitude 34 56 20 N Longitude 116 35 23 W
Deq. Min. Sec. Deq. Min. Sec.

Datum NAD83 Decimal Lat. 34.938804 Decimal Long. -116.5897

APN Book 0541 Page 011 Parcel 19

Township 10N Range 04E Section 20

Location Sketch

(Sketch must be drawn by hand after form is printed.)

North

West

SEE ATTACHED MAP

East

South

Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. Please be accurate and complete.

Activity

- ☒ New Well
☐ Modification/Repair
☐ Deepen
☐ Other _____
☐ Destroy
Describe procedures and materials under "GEOLOGIC LOG"

Planned Uses

- ☐ Water Supply
☐ Domestic ☐ Public
☐ Irrigation ☐ Industrial
☐ Cathodic Protection
☐ Dewatering
☐ Heat Exchange
☐ Injection
☒ Monitoring
☐ Remediation
☐ Sparging
☐ Test Well
☐ Vapor Extraction
☐ Other _____

Water Level and Yield of Completed Well

Depth to first water _____ (Feet below surface)

Depth to Static _____

Water Level 28 (Feet) Date Measured 06/12/2011

Estimated Yield * _____ (GPM) Test Type _____

Test Length _____ (Hours) Total Drawdown _____ (Feet)

*May not be representative of a well's long term yield.

Casings

Depth from Surface Feet to Feet	Borehole Diameter (Inches)	Type	Material	Wall Thickness (Inches)	Outside Diameter (Inches)	Screen Type	Slot Size if Any (Inches)
0	25	8	Blank	PVC Sch. 80	.276	2.75	
25	35	8	Screen	PVC Sch. 80	.276	2.75	Milled Slots 0.020
35	40	8	Blank	PVC Sch. 80	.276	2.75	

Annular Material

Depth from Surface Feet to Feet	Fill	Description
0	2	Cement
2	20	Bentonite
20	41	Filter Pack
		#2/12 graded sand

Attachments

- ☐ Geologic Log
☐ Well Construction Diagram
☐ Geophysical Log(s)
☐ Soil/Water Chemical Analyses
☒ Other Detailed Site Map

Attach additional information, if it exists.

Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name Boart Longyear Company

Person, Firm or Corporation

1333 W. 9th Street

Address

Upland

City

CA 91786

State

Zip

Signed _____

C-57 Licensed Water Well Contractor

Date Signed _____

694686

C-57 License Number

