

ATTACHMENT 6

Well Completion Diagrams



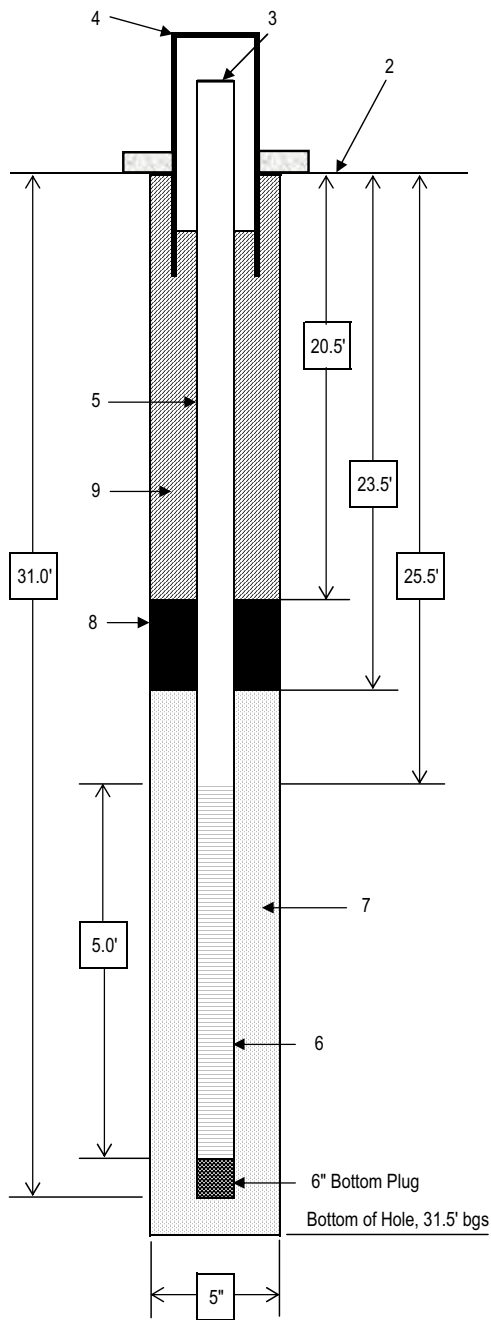
PROJECT NUMBER: 331536.A1.ST.09.ZZ	BORING NUMBER: KB-1	SHEET 1 OF 1
WELL COMPLETION DIAGRAM		

PROJECT: **Santa Rosa IRWP Seasonal Storage Project** LOCATION: **Kelly Farm, 6050 Sebastopol Road, Santa Rosa, CA**

GROUND SURFACE ELEVATION: **92.6 ft (NGVD 29)** DRILLING CONTRACTOR: **Gregg Drilling and Testing, Martinez, CA**

DRILLING METHOD AND EQUIPMENT: **Rotary wash, all-terrain track-mounted CME 850 rig, 3-7/8 and 4-7/8 inch diameter drag bits**

WATER LEVEL AND DATE: 8.8 ft bgs, 2/13/07	DRILLING START DATE & TIME: 12/06/06, 15:35	DRILLING FINISH DATE & TIME: 12/07/06, 10:30	LOGGER: A. Bayoumi
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SURVEY DATA

1. Location (Northing, Easting): **1915284.6, 6331422.0 (CCS 83)**
2. Ground surface elevation: **92.6 ft**
3. Top of casing elevation: **94.7 ft**

WELL CONSTRUCTION

4. Wellhead protection cover type: **Raised monument well box with locking lid**
5. Diameter and type of well casing: **2-inch diameter, Schedule 40 PVC**
6. Screen type: **Pre-Pack, 3.5" outside diameter**
 - a) Slot size: **0.020-inch (exterior and interior screens)**
7. Filter Pack (placed between outside of pre-pack screen and walls of borehole):
 - a) Type of material: **Clean Sand (Monterey #3)**
 - b) Quantity used: **Approx. 50 lbs.**
8. Upper Seal:
 - a) Type of material: **hydrated bentonite pellets**
 - b) Quantity used: **Approx. 25 lbs.**
9. Grout:
 - a) Grout mix used: **Neat cement (approx. one 94 lb sack cement per 6 gallons water)**
 - b) Method of placement: **Tremie**
 - c) Quantity of well casing grout: **Approx. 15 gal.**

DEVELOPMENT

Development method:
Development time:
Estimated purge volume:

COMMENTS

Borehole was initially drilled and sampled to a depth of 31.5 feet bgs using a 3-7/8 inch diameter drag bit. Upon completion, the hole was reamed to a depth of 31.0 feet bgs using a 4-7/8 inch diameter bit.



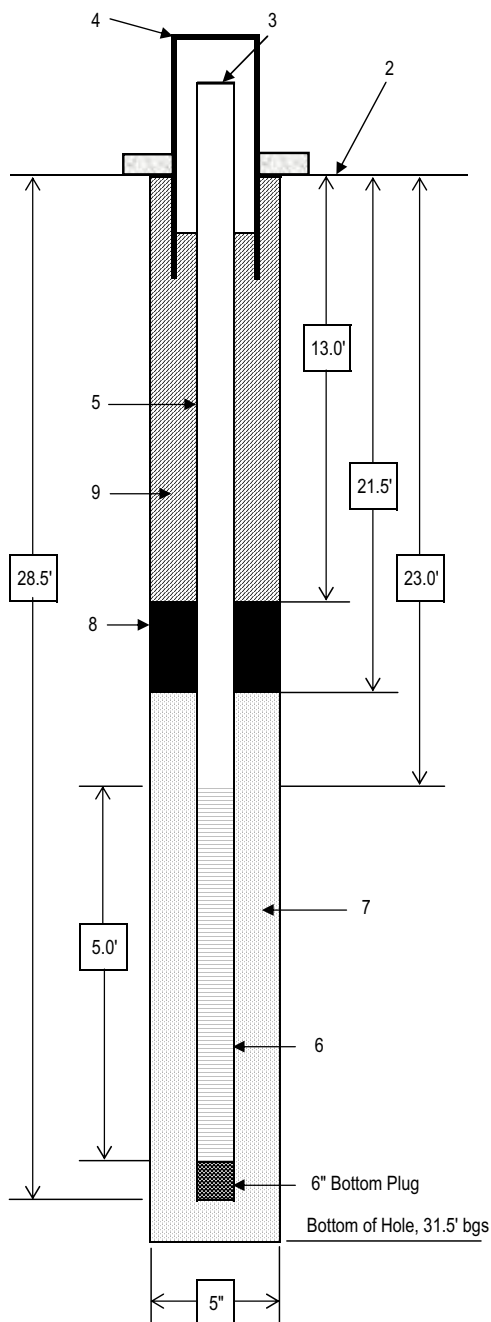
PROJECT NUMBER: 331536.A1.ST.09.ZZ	BORING NUMBER: KB-5	SHEET 1 OF 1
WELL COMPLETION DIAGRAM		

PROJECT: **Santa Rosa IRWP Seasonal Storage Project** LOCATION: **Kelly Farm, 6050 Sebastopol Road, Santa Rosa, CA**

GROUND SURFACE ELEVATION: **65.9 ft (NGVD 29)** DRILLING CONTRACTOR: **Spectrum Exploration, Stockton, CA**

DRILLING METHOD AND EQUIPMENT: **Rotary wash, all-terrain balloon-tire CME 750 rig, 3-7/8 and 4-7/8 inch diameter drag bits**

WATER LEVEL AND DATE: 27.7 ft bgs, 1/19/07	DRILLING START DATE & TIME: 11/14/06, 07:45	DRILLING FINISH DATE & TIME: 11/14/06, 13:30	LOGGER: D. Ritzman
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SURVEY DATA

1. Location (Northing, Easting): **1914030.2, 6330244.1 (CCS 83)**
2. Ground surface elevation: **65.9 ft**
3. Top of casing elevation: **69.2 ft**

WELL CONSTRUCTION

4. Wellhead protection cover type: **Raised monument well box with locking lid**
5. Diameter and type of well casing: **2-inch diameter, Schedule 40 PVC**
6. Screen type: **Pre-Pack, 3.5" outside diameter**
 - a) Slot size: **0.020-inch (exterior and interior screens)**
7. Filter Pack (placed between outside of pre-pack screen and walls of borehole):
 - a) Type of material: **Clean Sand (Monterey #3)**
 - b) Quantity used: **Approx. 180 lbs.**
8. Upper Seal:
 - a) Type of material: **hydrated bentonite pellets**
 - b) Quantity used: **Approx. 50 lbs.**
9. Grout:
 - a) Grout mix used: **Neat cement (approx. one 94 lb sack cement per 6 gallons water)**
 - b) Method of placement: **Tremie**
 - c) Quantity of well casing grout: **Approx. 10 gal.**

DEVELOPMENT

Development method:
Development time:
Estimated purge volume:

COMMENTS

Borehole was initially drilled and sampled to a depth of 31.5 feet bgs using a 3-7/8 inch diameter drag bit. Upon completion, the hole was reamed to a depth of 30.0 feet bgs using a 4-7/8 inch diameter bit. After reaming and prior to installation of the well, approximately 1.5 feet of caved material collected at the bottom of the hole. Well was set on top of caved material.



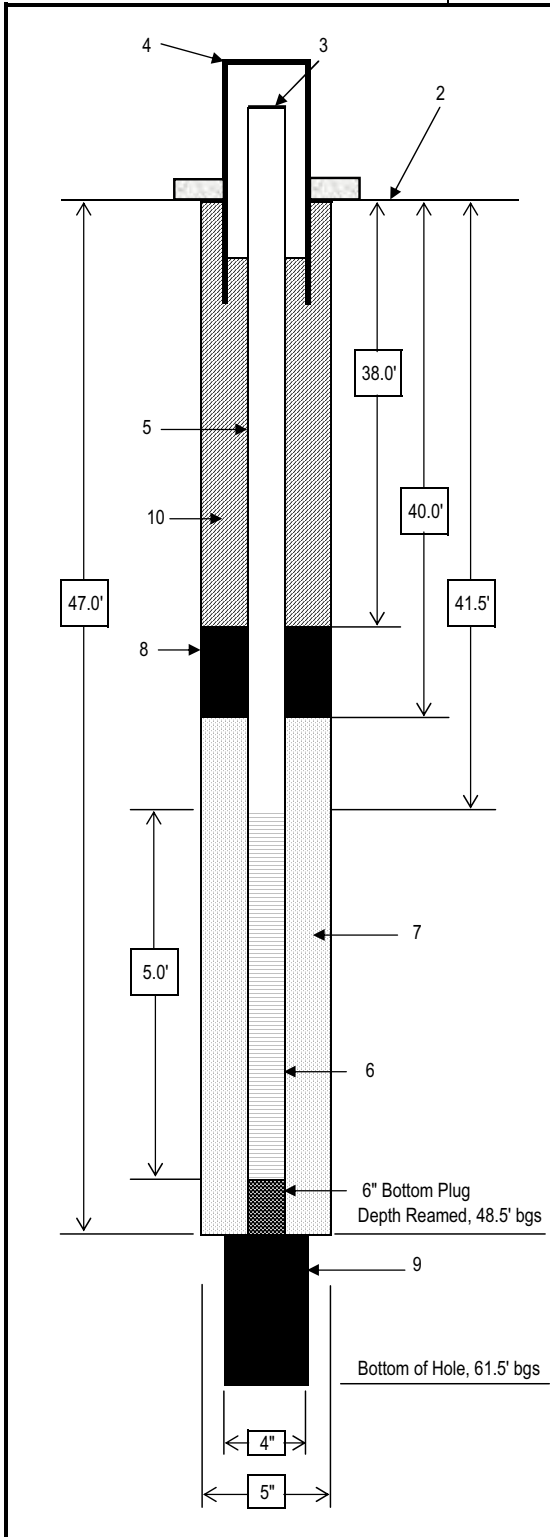
PROJECT NUMBER: 331536.A1.ST.09.ZZ	BORING NUMBER: KB-8	SHEET 1 OF 1
WELL COMPLETION DIAGRAM		

PROJECT: **Santa Rosa IRWP Seasonal Storage Project** LOCATION: **Kelly Farm, 6050 Sebastopol Road, Santa Rosa, CA**

GROUND SURFACE ELEVATION: **73.2 ft (NGVD 29)** DRILLING CONTRACTOR: **Gregg Drilling and Testing, Martinez, CA**

DRILLING METHOD AND EQUIPMENT: **Rotary wash, all-terrain track-mounted CME 850 rig, 3-7/8 and 4-7/8 inch diameter drag bits**

WATER LEVEL AND DATE: Dry, 2/13/07	DRILLING START DATE & TIME: 12/06/06, 08:45	DRILLING FINISH DATE & TIME: 12/06/06, 15:00	LOGGER: A. Bayoumi
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SURVEY DATA

- Location (Northing, Easting): **1911417.3, 6329903.6 (CCS 83)**
- Ground surface elevation: **73.2 ft**
- Top of casing elevation: **76.5 ft**

WELL CONSTRUCTION

- Wellhead protection cover type: **Raised monument well box with locking lid**
- Diameter and type of well casing: **2-inch diameter, Schedule 40 PVC**
- Screen type: **Pre-Pack, 3.5" outside diameter**
 - Slot size: **0.020-inch (exterior and interior screens)**
- Filter Pack (placed between outside of pre-pack screen and walls of borehole):
 - Type of material: **Clean Sand (Monterey #3)**
 - Quantity used: **Approx. 150 lbs.**
- Upper Seal:
 - Type of material: **hydrated bentonite pellets**
 - Quantity used: **Approx. 25 lbs.**
- Lower Seal:
 - Type of material: **hydrated bentonite pellets**
 - Quantity used: **Approx. 80 lbs.**
- Grout:
 - Grout mix used: **Neat cement (approx. one 94 lb sack cement per 6 gallons water)**
 - Method of placement: **Tremie**
 - Quantity of well casing grout: **Approx. 25 gal.**

DEVELOPMENT

Development method:

Development time:

Estimated purge volume:

COMMENTS

Borehole was initially drilled and sampled to a depth of 61.5 feet bgs using a 3-7/8 inch diameter drag bit. Upon completion, the bottom of the hole was backfilled with bentonite pellets and the upper portion of the hole was reamed using a 4-7/8 inch diameter drag bit to a depth of 47.0 feet bgs.



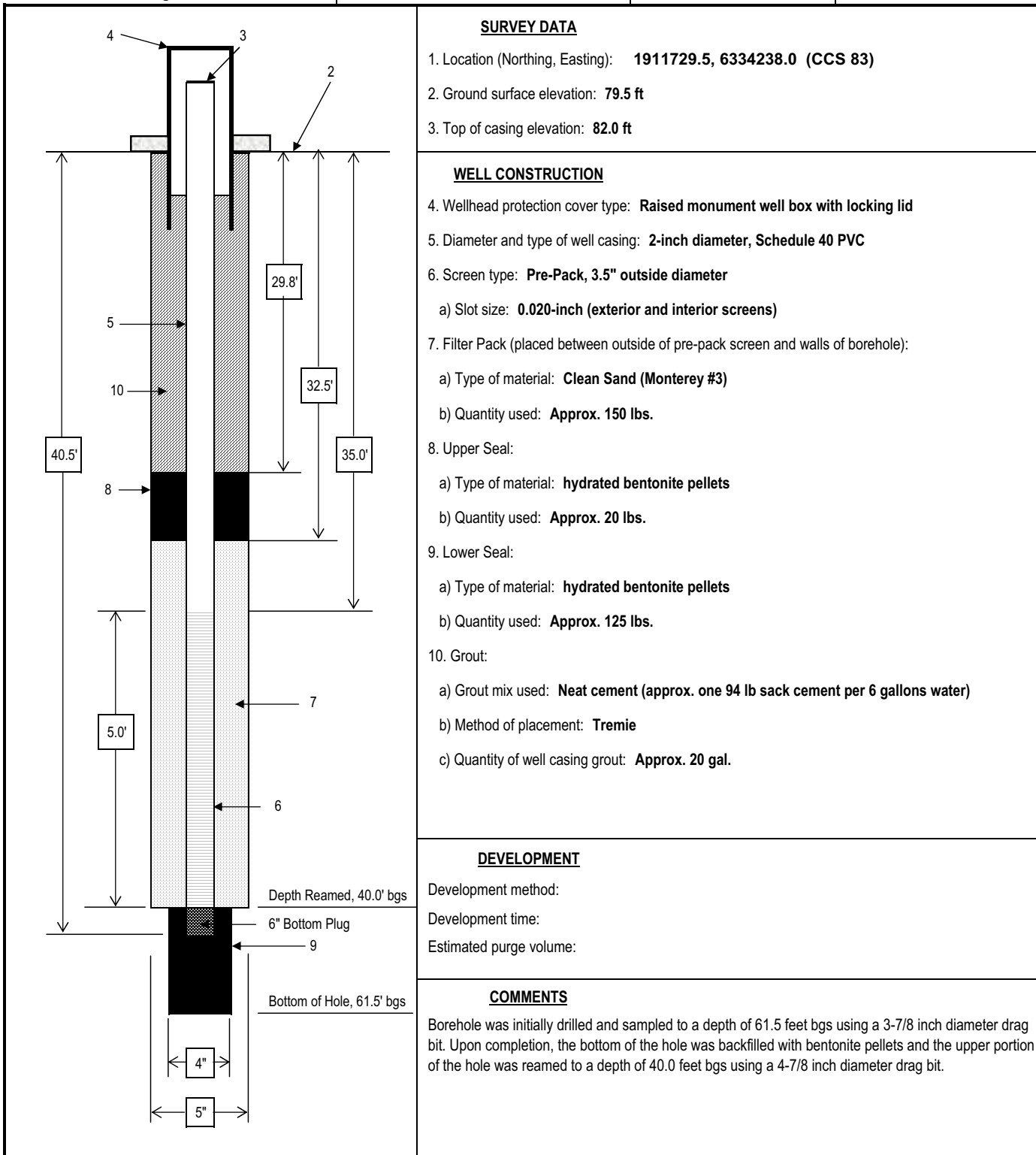
PROJECT NUMBER: 331536.A1.ST.09.ZZ	BORING NUMBER: BB-1	SHEET 1 OF 1
WELL COMPLETION DIAGRAM		

PROJECT: **Santa Rosa IRWP Seasonal Storage Project** LOCATION: **Brown Farm, 2200 Llano Road, Santa Rosa, CA**

GROUND SURFACE ELEVATION: **79.5 ft (NGVD 29)** DRILLING CONTRACTOR: **Gregg Drilling and Testing, Martinez, CA**

DRILLING METHOD AND EQUIPMENT: **Rotary wash, all-terrain track-mounted CME 850 rig, 3-7/8 and 4-7/8 inch diameter drag bits**

WATER LEVEL AND DATE: 14.3 ft bgs, 1/19/07	DRILLING START DATE & TIME: 11/29/06, 15:00	DRILLING FINISH DATE & TIME: 11/30/06, 14:00	LOGGER: D. Ritzman
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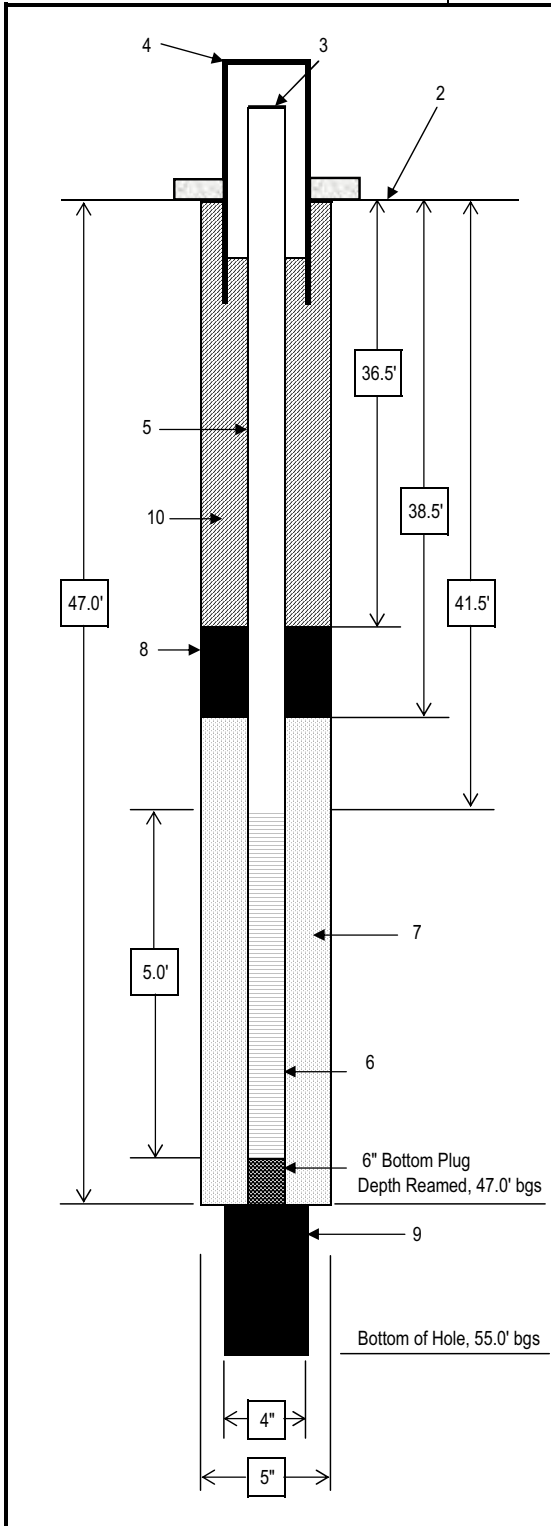
PROJECT NUMBER: 331536.A1.ST.09.ZZ	BORING NUMBER: BB-3	SHEET 1 OF 1
WELL COMPLETION DIAGRAM		

PROJECT: **Santa Rosa IRWP Seasonal Storage Project** LOCATION: **Brown Farm, 2200 Llano Road, Santa Rosa, CA**

GROUND SURFACE ELEVATION: **81.5 ft (NGVD 29)** DRILLING CONTRACTOR: **Gregg Drilling and Testing, Martinez, CA**

DRILLING METHOD AND EQUIPMENT: **Rotary wash, all-terrain track-mounted CME 850 rig, 3-7/8 and 4-7/8 inch diameter drag bits**

WATER LEVEL AND DATE: 28.7 ft bgs, 1/19/07	DRILLING START DATE & TIME: 12/01/06, 09:25	DRILLING FINISH DATE & TIME: 12/04/06, 11:00	LOGGER: A. Bayoumi
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SURVEY DATA

1. Location (Northing, Easting): **1910412.0, 6333289.2 (CCS 83)**
2. Ground surface elevation: **81.5 ft**
3. Top of casing elevation: **84.3 ft**

WELL CONSTRUCTION

4. Wellhead protection cover type: **Raised monument well box with locking lid**
5. Diameter and type of well casing: **2-inch diameter, Schedule 40 PVC**
6. Screen type: **Pre-Pack, 3.5" outside diameter**
 - a) Slot size: **0.020-inch (exterior and interior screens)**
7. Filter Pack (placed between outside of pre-pack screen and walls of borehole):
 - a) Type of material: **Clean Sand (Monterey #3)**
 - b) Quantity used: **Approx. 80 lbs.**
8. Upper Seal:
 - a) Type of material: **hydrated bentonite pellets**
 - b) Quantity used: **Approx. 15 lbs.**
9. Lower Seal:
 - a) Type of material: **hydrated bentonite pellets**
 - b) Quantity used: **Approx. 25 lbs.**
10. Grout:
 - a) Grout mix used: **Neat cement (approx. one 94 lb sack cement per 6 gallons water)**
 - b) Method of placement: **Tremie**
 - c) Quantity of well casing grout: **Approx. 25 gal.**

DEVELOPMENT

Development method:

Development time:

Estimated purge volume:

COMMENTS

Borehole was initially drilled and sampled to a depth of 55.0 feet bgs. After drilling, approximately 4.0 feet of caved material collected at the bottom of the hole. Bentonite pellets placed in the bottom of the hole above the caved material and then the upper portion of the hole was reamed to a depth of 47' bgs using a 4-7/8 inch diameter.



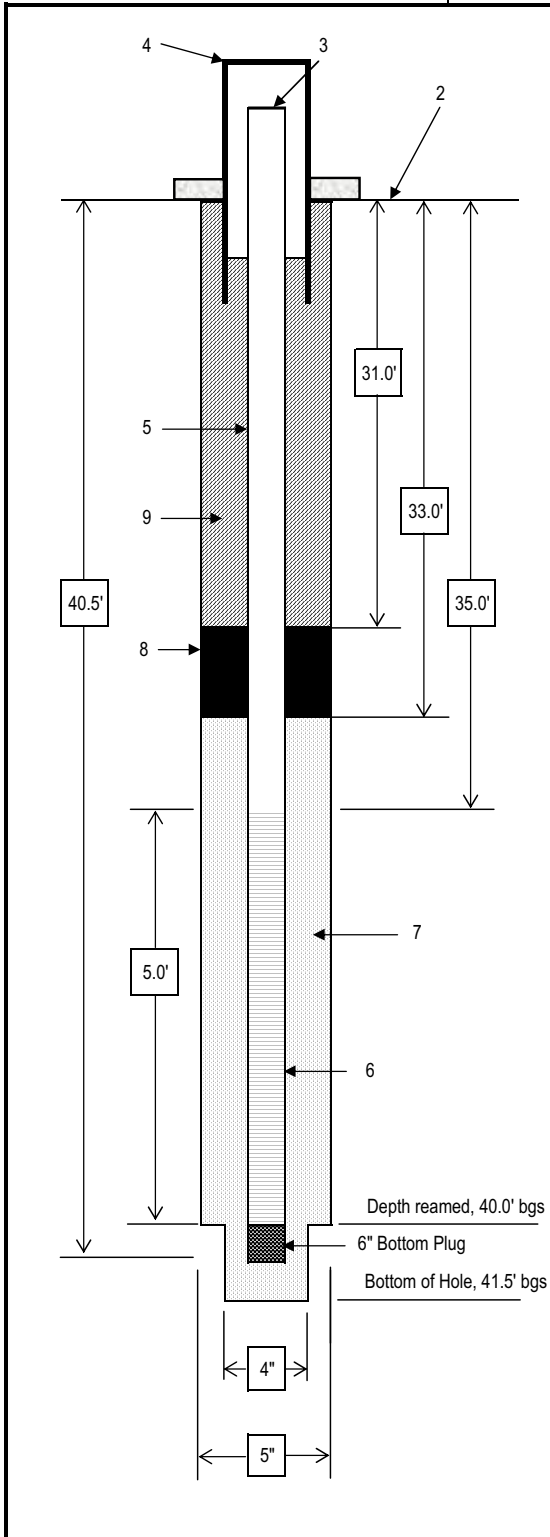
PROJECT NUMBER: 331536.A1.ST.09.ZZ	BORING NUMBER: BB-7	SHEET 1 OF 1
WELL COMPLETION DIAGRAM		

PROJECT: **Santa Rosa IRWP Seasonal Storage Project** LOCATION: **Brown Farm, 2200 Llano Road, Santa Rosa, CA**

GROUND SURFACE ELEVATION: **77.1 ft (NGVD 29)** DRILLING CONTRACTOR: **Gregg Drilling and Testing, Martinez, CA**

DRILLING METHOD AND EQUIPMENT: **Rotary wash, all-terrain track-mounted CME 850 rig, 3-7/8 and 4-7/8 inch diameter drag bits**

WATER LEVEL AND DATE: 30.4 ft bgs, 1/19/07	DRILLING START DATE & TIME: 12/04/06, 11:45	DRILLING FINISH DATE & TIME: 12/04/06, 16:10	LOGGER: A. Bayoumi
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SURVEY DATA

- Location (Northing, Easting): **1910079.9, 6331975.1 (CCS 83)**
- Ground surface elevation: **77.1 ft**
- Top of casing elevation: **79.8 ft**

WELL CONSTRUCTION

- Wellhead protection cover type: **Raised monument well box with locking lid**
- Diameter and type of well casing: **2-inch diameter, Schedule 40 PVC**
- Screen type: **Pre-Pack, 3.5" outside diameter**
 - Slot size: **0.020-inch (exterior and interior screens)**
- Filter Pack (placed between outside of pre-pack screen and walls of borehole):
 - Type of material: **Clean Sand (Monterey #3)**
 - Quantity used: **Approx. 150 lbs.**
- Upper Seal:
 - Type of material: **hydrated bentonite pellets**
 - Quantity used: **Approx. 15 lbs.**
- Grout:
 - Grout mix used: **Neat cement (approx. one 94 lb sack cement per 6 gallons water)**
 - Method of placement: **Tremie**
 - Quantity of well casing grout: **Approx. 20 gal.**

DEVELOPMENT

Development method:

Development time:

Estimated purge volume:

COMMENTS

Borehole was initially drilled and sampled to a depth of 41.5 feet bgs using a 3-7/8 inch diameter drag bit. Upon completion, the hole was reamed to a depth of 40.0 feet bgs using a 4-7/8 inch diameter bit.



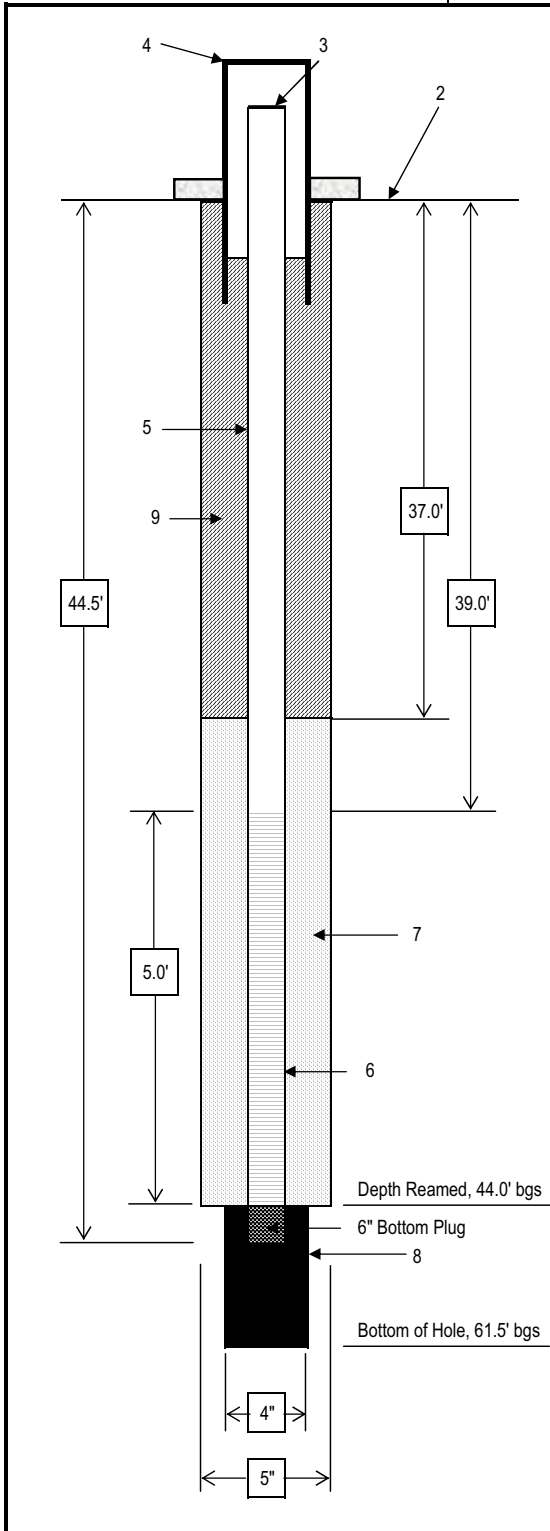
PROJECT NUMBER: 331536.A1.ST.09.ZZ	BORING NUMBER: BB-8	SHEET 1 OF 1
WELL COMPLETION DIAGRAM		

PROJECT: **Santa Rosa IRWP Seasonal Storage Project** LOCATION: **Brown Farm, 2200 Llano Road, Santa Rosa, CA**

GROUND SURFACE ELEVATION: **71.6 ft (NGVD 29)** DRILLING CONTRACTOR: **Gregg Drilling and Testing, Martinez, CA**

DRILLING METHOD AND EQUIPMENT: **Rotary wash, all-terrain track-mounted CME 850 rig, 3-7/8 and 4-7/8 inch diameter drag bits**

WATER LEVEL AND DATE: 19.3 ft bgs, 1/19/07	DRILLING START DATE & TIME: 12/04/06, 16:10	DRILLING FINISH DATE & TIME: 12/05/06, 14:00	LOGGER: A. Bayoumi
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SURVEY DATA

1. Location (Northing, Easting): **1908600.5, 6332657.5 (CCS 83)**
2. Ground surface elevation: **71.6 ft**
3. Top of casing elevation: **74.4 ft**

WELL CONSTRUCTION

4. Wellhead protection cover type: **Raised monument well box with locking lid**
5. Diameter and type of well casing: **2-inch diameter, Schedule 40 PVC**
6. Screen type: **Pre-Pack, 3.5" outside diameter**
 - a) Slot size: **0.020-inch (exterior and interior screens)**
7. Filter Pack (placed between outside of pre-pack screen and walls of borehole):
 - a) Type of material: **Clean Sand (Monterey #3)**
 - b) Quantity used: **Approx. 100 lbs.**
8. Lower Seal:
 - a) Type of material: **hydrated bentonite pellets**
 - b) Quantity used: **Approx. 110 lbs.**
9. Grout:
 - a) Grout mix used: **Neat cement (approx. one 94 lb sack cement per 6 gallons water)**
 - b) Method of placement: **Tremie**
 - c) Quantity of well casing grout: **Approx. 25 gal.**

DEVELOPMENT

Development method:

Development time:

Estimated purge volume:

COMMENTS

Borehole was initially drilled and sampled to a depth of 61.5 feet bgs using a 3-7/8 inch diameter drag bit. Upon completion, the bottom of the hole was backfilled with bentonite pellets and the upper portion of the hole was reamed to a depth of 44.0 feet bgs using a 4-7/8 inch diameter drag bit.



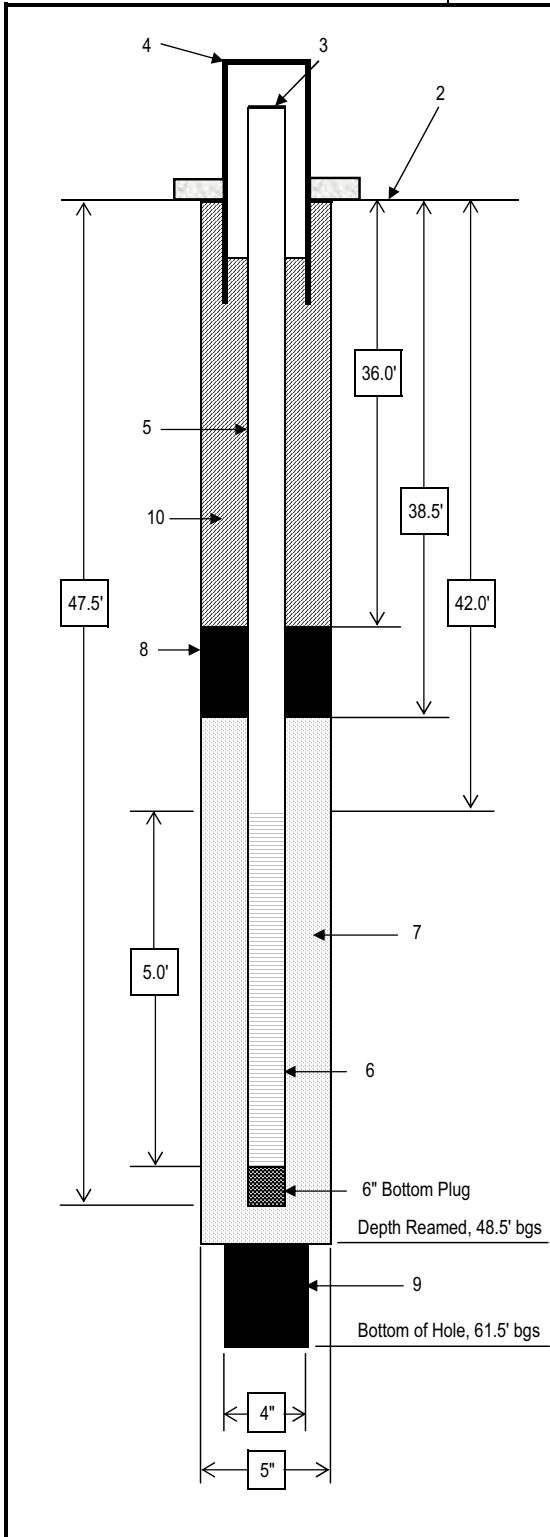
PROJECT NUMBER: 331536.A1.ST.09.ZZ	BORING NUMBER: AB-1	SHEET 1 OF 1
WELL COMPLETION DIAGRAM		

PROJECT: **Santa Rosa IRWP Seasonal Storage Project** LOCATION: **Alpha Farm, 3000 Llano Road, Santa Rosa, CA**

GROUND SURFACE ELEVATION: **81.9 ft (NGVD 29)** DRILLING CONTRACTOR: **Gregg Drilling and Testing, Martinez, CA**

DRILLING METHOD AND EQUIPMENT: **Rotary wash, all-terrain track-mounted CME 850 rig, 3-7/8 and 4-7/8 inch diameter drag bits**

WATER LEVEL AND DATE: 9.6 ft bgs, 1/19/07	DRILLING START DATE & TIME: 11/27/06, 14:30	DRILLING FINISH DATE & TIME: 11/28/06, 13:00	LOGGER: D. Ritzman
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SURVEY DATA

- Location (Northing, Easting): **1906909.2, 6337567.3 (CCS 83)**
- Ground surface elevation: **81.9 ft**
- Top of casing elevation: **84.9 ft**

WELL CONSTRUCTION

- Wellhead protection cover type: **Raised monument well box with locking lid**
- Diameter and type of well casing: **2-inch diameter, Schedule 40 PVC**
- Screen type: **Pre-Pack, 3.5" outside diameter**
 - Slot size: **0.020-inch (exterior and interior screens)**
- Filter Pack (placed between outside of pre-pack screen and walls of borehole):
 - Type of material: **Clean Sand (Monterey #3)**
 - Quantity used: **Approx. 100 lbs.**
- Upper Seal:
 - Type of material: **hydrated bentonite pellets**
 - Quantity used: **Approx. 20 lbs.**
- Lower Seal:
 - Type of material: **hydrated bentonite pellets**
 - Quantity used: **Approx. 80 lbs.**
- Grout:
 - Grout mix used: **Neat cement (approx. one 94 lb sack cement per 6 gallons water)**
 - Method of placement: **Tremie**
 - Quantity of well casing grout: **Approx. 25 gal.**

DEVELOPMENT

Development method:
Development time:
Estimated purge volume:

COMMENTS

Borehole was initially drilled and sampled to a depth of 61.5 feet bgs using a 3-7/8 inch diameter drag bit. Upon completion, the bottom of the hole was backfilled with bentonite pellets and the upper portion of the hole was reamed to a depth of 48.5 feet bgs using a 4-7/8 inch diameter drag bit.



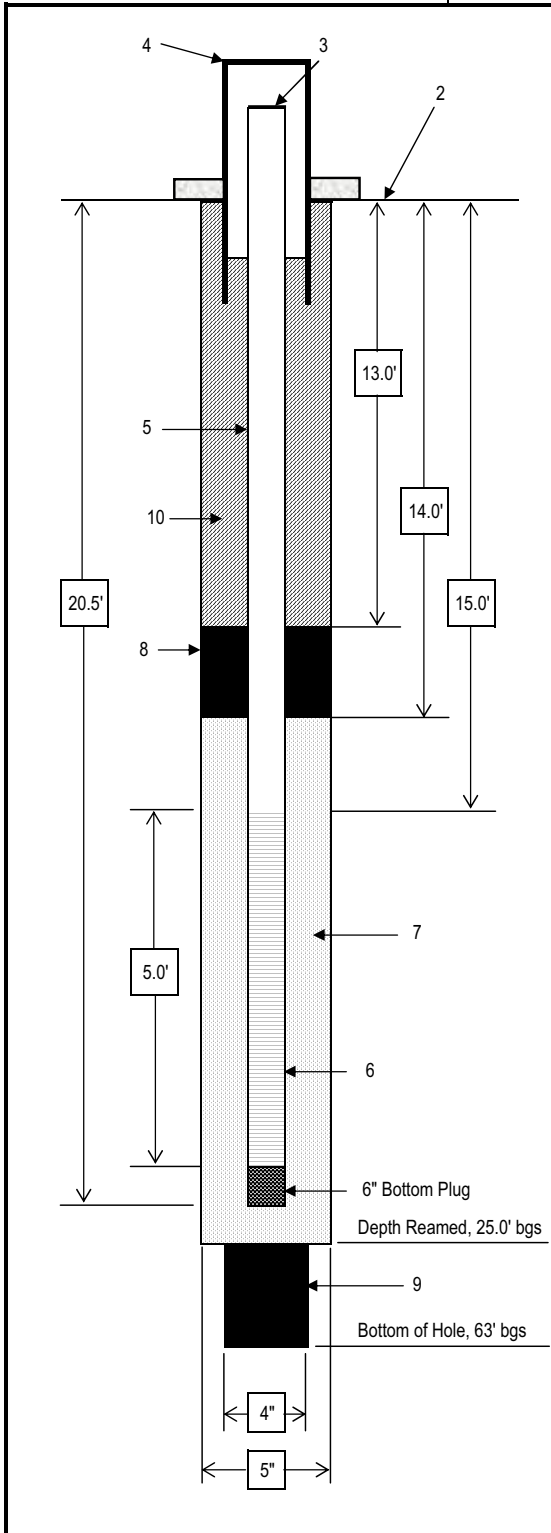
PROJECT NUMBER: 331536.A1.ST.09.ZZ	BORING NUMBER: AB-2	SHEET 1 OF 1
WELL COMPLETION DIAGRAM		

PROJECT: **Santa Rosa IRWP Seasonal Storage Project** LOCATION: **Alpha Farm, 3000 Llano Road, Santa Rosa, CA**

GROUND SURFACE ELEVATION: **79.5 ft (NGVD 29)** DRILLING CONTRACTOR: **Gregg Drilling and Testing, Martinez, CA**

DRILLING METHOD AND EQUIPMENT: **Rotary wash, all-terrain track-mounted CME 850 rig, 3-7/8 and 4-7/8 inch diameter drag bits**

WATER LEVEL AND DATE: 3.7 ft bgs, 1/19/07	DRILLING START DATE & TIME: 11/27/06, 08:15	DRILLING FINISH DATE & TIME: 11/27/06, 14:00	LOGGER: A. Bayoumi
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SURVEY DATA

- Location (Northing, Easting): **1906413.3, 6336551.0 (CCS 83)**
- Ground surface elevation: **79.5 ft**
- Top of casing elevation: **82.3 ft**

WELL CONSTRUCTION

- Wellhead protection cover type: **Raised monument well box with locking lid**
- Diameter and type of well casing: **2-inch diameter, Schedule 40 PVC**
- Screen type: **Pre-Pack, 3.5" outside diameter**
 - Slot size: **0.020-inch (exterior and interior screens)**
- Filter Pack (placed between outside of pre-pack screen and walls of borehole):
 - Type of material: **Clean Sand (Monterey #3)**
 - Quantity used: **Approx. 50 lbs.**
- Upper Seal:
 - Type of material: **hydrated bentonite pellets**
 - Quantity used: **Approx. 25 lbs.**
- Lower Seal:
 - Type of material: **hydrated bentonite pellets**
 - Quantity used: **Approx. 150 lbs.**
- Grout:
 - Grout mix used: **Neat cement (approx. one 94 lb sack cement per 6 gallons water)**
 - Method of placement: **Tremie**
 - Quantity of well casing grout: **Approx. 10 gal.**

DEVELOPMENT

Development method:

Development time:

Estimated purge volume:

COMMENTS

Borehole was initially drilled and sampled to a depth of 63.0 feet bgs using a 3-7/8 inch diameter drag bit. Upon completion, the bottom of the hole was backfilled with bentonite pellets and the upper portion of the hole was reamed to a depth of 25.0 feet bgs using a 4-7/8 inch diameter drag bit.



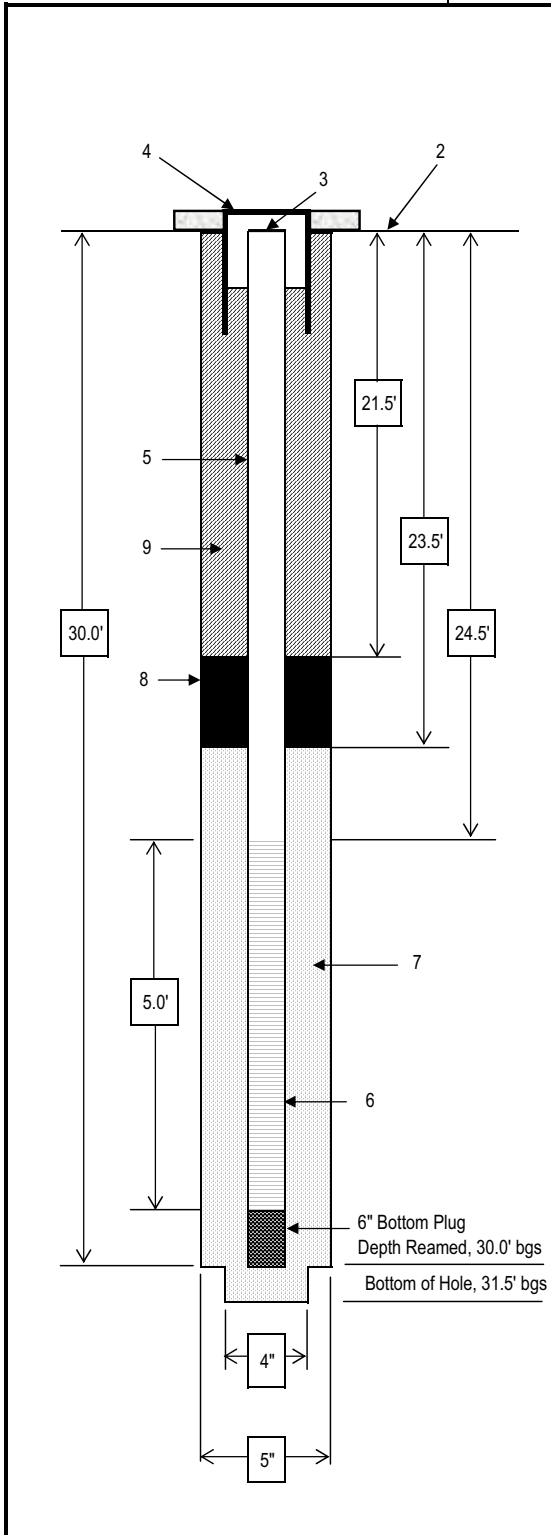
PROJECT NUMBER: 331536.A1.ST.09.ZZ	BORING NUMBER: AB-3	SHEET 1 OF 1
WELL COMPLETION DIAGRAM		

PROJECT: **Santa Rosa IRWP Seasonal Storage Project** LOCATION: **Alpha Farm, 3000 Llano Road, Santa Rosa, CA**

GROUND SURFACE ELEVATION: **82.9 ft (NGVD 29)** DRILLING CONTRACTOR: **Gregg Drilling and Testing, Martinez, CA**

DRILLING METHOD AND EQUIPMENT: **Rotary wash, all-terrain track-mounted CME 850 rig, 3-7/8 and 4-7/8 inch diameter drag bits**

WATER LEVEL AND DATE: 7.5 ft bgs, 1/19/07	DRILLING START DATE & TIME: 11/22/06, 12:40	DRILLING FINISH DATE & TIME: 11/22/06, 16:15	LOGGER: A. Bayoumi
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SURVEY DATA

1. Location (Northing, Easting): **1906396.4, 6337403.8 (CCS 83)**
2. Ground surface elevation: **82.9 ft**
3. Top of casing elevation: **82.6 ft**

WELL CONSTRUCTION

4. Wellhead protection cover type: **Flush-mounted cylindrical box with bolting metal lid**
5. Diameter and type of well casing: **2-inch diameter, Schedule 40 PVC**
6. Screen type: **Pre-Pack, 3.5" outside diameter**
 - a) Slot size: **0.020-inch (exterior and interior screens)**
7. Filter Pack (placed between outside of pre-pack screen and walls of borehole):
 - a) Type of material: **Clean Sand (Monterey #3)**
 - b) Quantity used: **Approx. 60 lbs.**
8. Upper Seal:
 - a) Type of material: **hydrated bentonite pellets**
 - b) Quantity used: **Approx. 15 lbs.**
9. Grout:
 - a) Grout mix used: **Neat cement (approx. one 94 lb sack cement per 6 gallons water)**
 - b) Method of placement: **Tremie**
 - c) Quantity of well casing grout: **Approx. 15 gal.**

DEVELOPMENT

Development method:

Development time:

Estimated purge volume:

COMMENTS

Borehole was initially drilled and sampled to a depth of 31.5 feet bgs using a 3-7/8 inch diameter drag bit. Upon completion, the hole was reamed to a depth of 30.0 feet bgs using a 4-7/8 inch diameter drag bit.



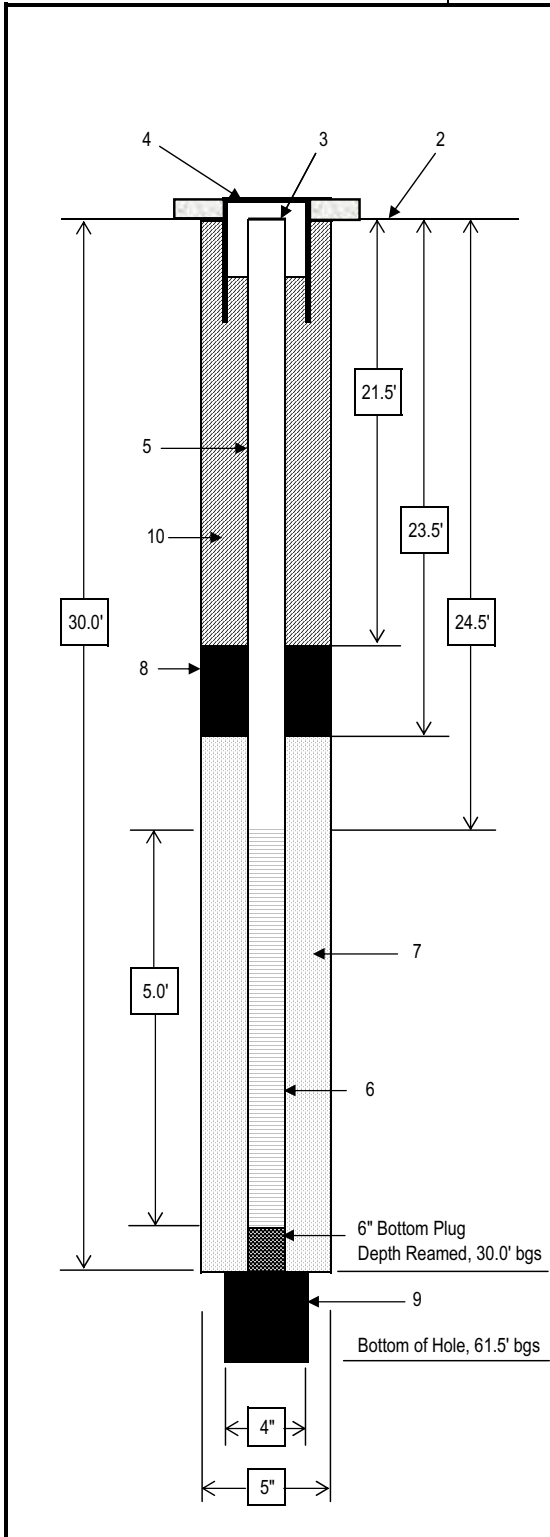
PROJECT NUMBER: 331536.A1.ST.09.ZZ	BORING NUMBER: AB-10	SHEET 1 OF 1
WELL COMPLETION DIAGRAM		

PROJECT: **Santa Rosa IRWP Seasonal Storage Project** LOCATION: **Alpha Farm, 3000 Llano Road, Santa Rosa, CA**

GROUND SURFACE ELEVATION: **89.5 ft (NGVD 29)** DRILLING CONTRACTOR: **Gregg Drilling and Testing, Martinez, CA**

DRILLING METHOD AND EQUIPMENT: **Rotary wash, all-terrain track-mounted CME 850 rig, 3-7/8 and 4-7/8 inch diameter drag bits**

WATER LEVEL AND DATE: 16.4 ft bgs, 1/19/07	DRILLING START DATE & TIME: 11/21/06, 13:45	DRILLING FINISH DATE & TIME: 11/22/06, 08:50	LOGGER: A. Bayoumi
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SURVEY DATA

- Location (Northing, Easting): **1905236.0, 6337858.8 (CCS 83)**
- Ground surface elevation: **89.5 ft**
- Top of casing elevation: **89.3 ft**

WELL CONSTRUCTION

- Wellhead protection cover type: **Flush-mounted cylindrical box with bolting metal lid**
- Diameter and type of well casing: **2-inch diameter, Schedule 40 PVC**
- Screen type: **Pre-Pack, 3.5" outside diameter**
 - Slot size: **0.020-inch (exterior and interior screens)**
- Filter Pack (placed between outside of pre-pack screen and walls of borehole):
 - Type of material: **Clean Sand (Monterey #3)**
 - Quantity used: **Approx. 60 lbs.**
- Upper Seal:
 - Type of material: **hydrated bentonite pellets**
 - Quantity used: **Approx. 15 lbs.**
- Lower Seal:
 - Type of material: **hydrated bentonite pellets**
 - Quantity used: **Approx. 150 lbs.**
- Grout:
 - Grout mix used: **Neat cement (approx. one 94 lb sack cement per 6 gallons water)**
 - Method of placement: **Tremie**
 - Quantity of well casing grout: **Approx. 15 gal.**

DEVELOPMENT

Development method:

Development time:

Estimated purge volume:

COMMENTS

Borehole was initially drilled and sampled to a depth of 61.5 feet bgs using a 3-7/8 inch diameter drag bit. Upon completion, the bottom of the hole was backfilled with bentonite pellets and the upper portion of the hole was reamed to a depth of 30.0 feet bgs using a 4-7/8 inch diameter drag bit.



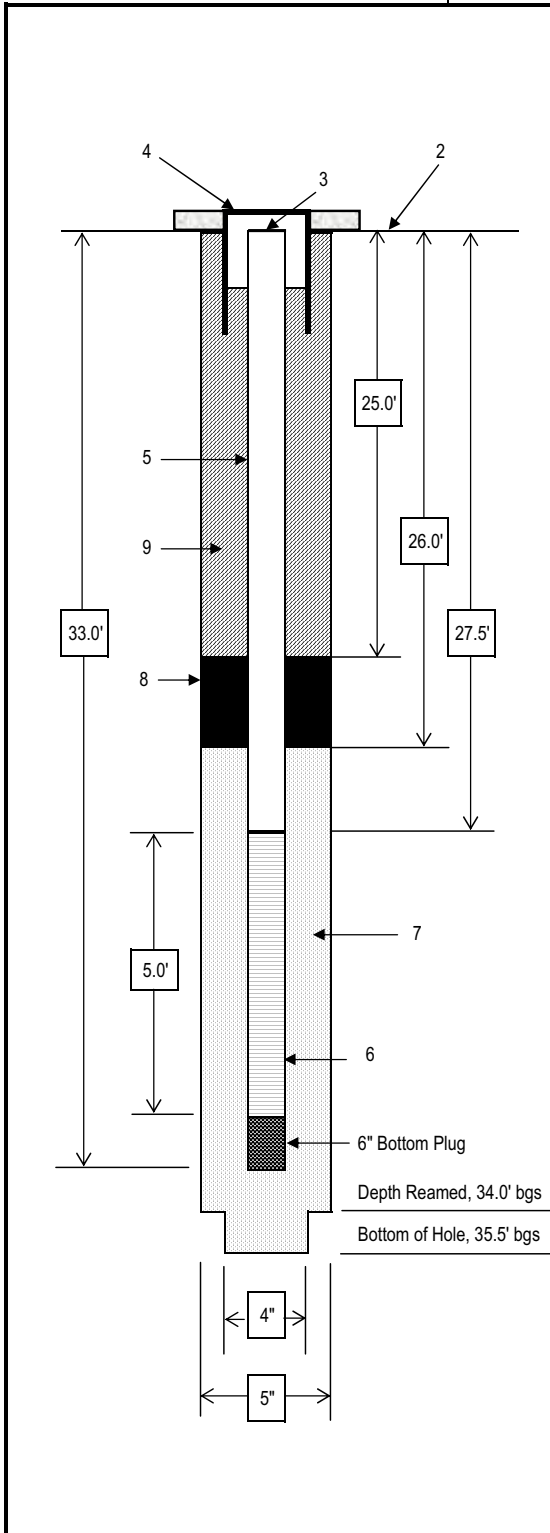
PROJECT NUMBER: 331536.A1.ST.09.ZZ	BORING NUMBER: CB-1	SHEET 1 OF 1
WELL COMPLETION DIAGRAM		

PROJECT: **Santa Rosa IRWP Seasonal Storage Project** LOCATION: **West College, 65 Stony Circle, Santa Rosa, CA**

GROUND SURFACE ELEVATION: **113.6 ft (City of SR BM)** DRILLING CONTRACTOR: **Gregg Drilling and Testing, Martinez, CA**

DRILLING METHOD AND EQUIPMENT: **Rotary wash, all-terrain track-mounted CME 850 rig, 3-7/8 inch and 4-7/8 inch diameter drag bits**

WATER LEVEL AND DATE: 14.8 ft bgs, 1/19/07	DRILLING START DATE & TIME: 12/07/06, 15:05	DRILLING FINISH DATE & TIME: 12/08/06, 14:45	LOGGER: A. Bayoumi
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SURVEY DATA

- Location (Northing, Easting): **1924186.0, 6344993.0 (CCS 83)**
- Ground surface elevation: **113.6 ft**
- Top of casing elevation: **113.5 ft**

WELL CONSTRUCTION

- Wellhead protection cover type: **Flush-mounted cylindrical box with bolting metal lid**
- Diameter and type of well casing: **2-inch diameter, Schedule 40 PVC**
- Screen type: **Pre-Pack, 3.5" outside diameter**
 - Slot size: **0.020-inch (exterior and interior screens)**
- Filter Pack (placed between outside of pre-pack screen and walls of borehole):
 - Type of material: **Clean Sand (Monterey #3)**
 - Quantity used: **Approx. 200 lbs.**
- Upper Seal:
 - Type of material: **hydrated bentonite pellets**
 - Quantity used: **Approx. 25 lbs.**
- Grout:
 - Grout mix used: **Neat cement (approx. one 94 lb sack cement per 6 gallons water)**
 - Method of placement: **Tremie**
 - Quantity of well casing grout: **Approx. 20 gal.**

DEVELOPMENT

Development method:

Development time:

Estimated purge volume:

COMMENTS

Borehole was initially drilled and sampled to a depth of 35.5 feet bgs using a 3-7/8 inch diameter drag bit. Upon completion, the hole was reamed to a depth of 34.0 feet bgs using a 4-7/8 inch diameter bit. After reaming and prior to installation of the well, approximately 1.0 feet of caved material collected at the bottom of the hole. Well was set on top of caved material.



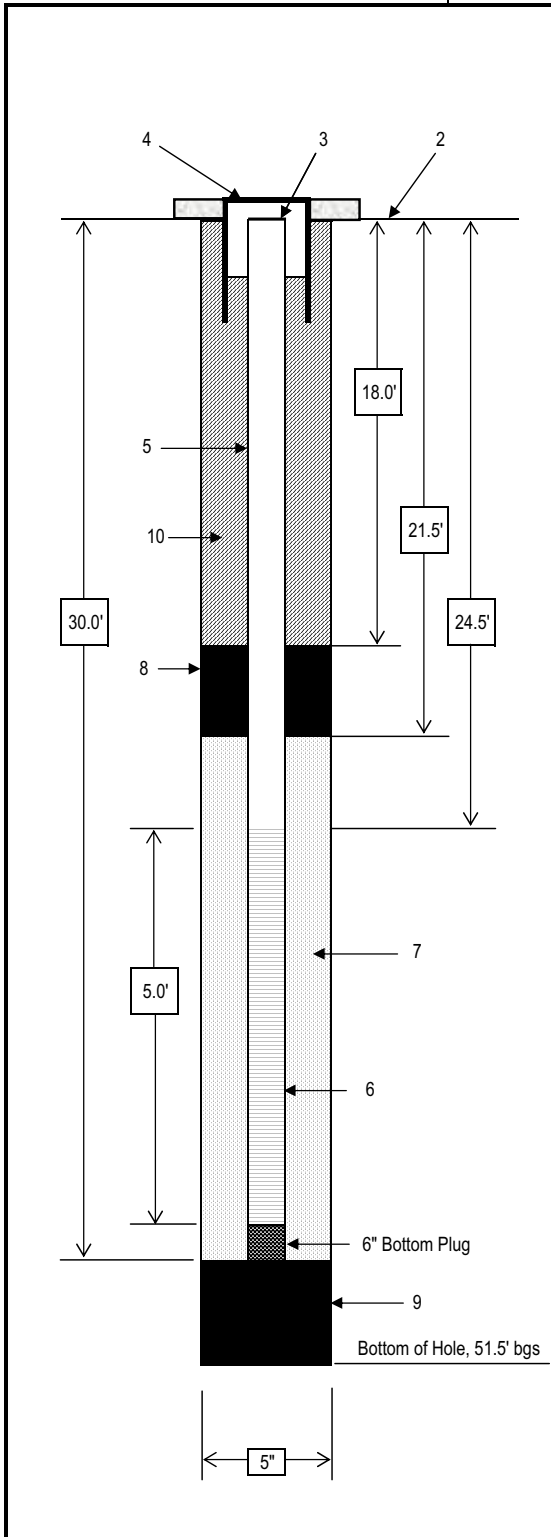
PROJECT NUMBER: 331536.A1.ST.09.ZZ	BORING NUMBER: CB-2	SHEET 1 OF 1
WELL COMPLETION DIAGRAM		

PROJECT: **Santa Rosa IRWP Seasonal Storage Project** LOCATION: **West College, 65 Stony Circle, Santa Rosa, CA**

GROUND SURFACE ELEVATION: **113.9 ft (City of SR BM)** DRILLING CONTRACTOR: **Gregg Drilling and Testing, Martinez, CA**

DRILLING METHOD AND EQUIPMENT: **Rotary wash, truck-mounted Mobil B-53 rig, 4-7/8 inch diameter drag bit**

WATER LEVEL AND DATE: 14.7 ft bgs, 1/19/07	DRILLING START DATE & TIME: 12/28/06, 08:20	DRILLING FINISH DATE & TIME: 12/28/06, 14:30	LOGGER: A. Bayoumi
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SURVEY DATA

- Location (Northing, Easting): **1923145.2, 6344980.6 (CCS 83)**
- Ground surface elevation: **113.9 ft**
- Top of casing elevation: **113.8 ft**

WELL CONSTRUCTION

- Wellhead protection cover type: **Flush-mounted cylindrical box with bolting metal lid**
- Diameter and type of well casing: **2-inch diameter, Schedule 40 PVC**
- Screen type: **Pre-Pack, 3.5" outside diameter**
 - Slot size: **0.020-inch (exterior and interior screens)**
- Filter Pack (placed between outside of pre-pack screen and walls of borehole):
 - Type of material: **Clean Sand (Monterey #2-12)**
 - Quantity used: **Approx. 300 lbs.**
- Upper Seal:
 - Type of material: **hydrated bentonite pellets**
 - Quantity used: **Approx. 50 lbs.**
- Lower Seal:
 - Type of material: **hydrated bentonite pellets**
 - Quantity used: **Approx. 150 lbs.**
- Grout:
 - Grout mix used: **Neat cement (approx. one 94 lb sack cement per 6 gallons water)**
 - Method of placement: **Tremie**
 - Quantity of well casing grout: **Approx. 15 gal.**

DEVELOPMENT

Development method:
Development time:
Estimated purge volume:

COMMENTS

Borehole was drilled and sampled to a depth of 51.5 feet bgs using a 4-7/8 inch diameter drag bit. Upon completion, the bottom of the hole was backfilled to the base of the well with bentonite pellets.



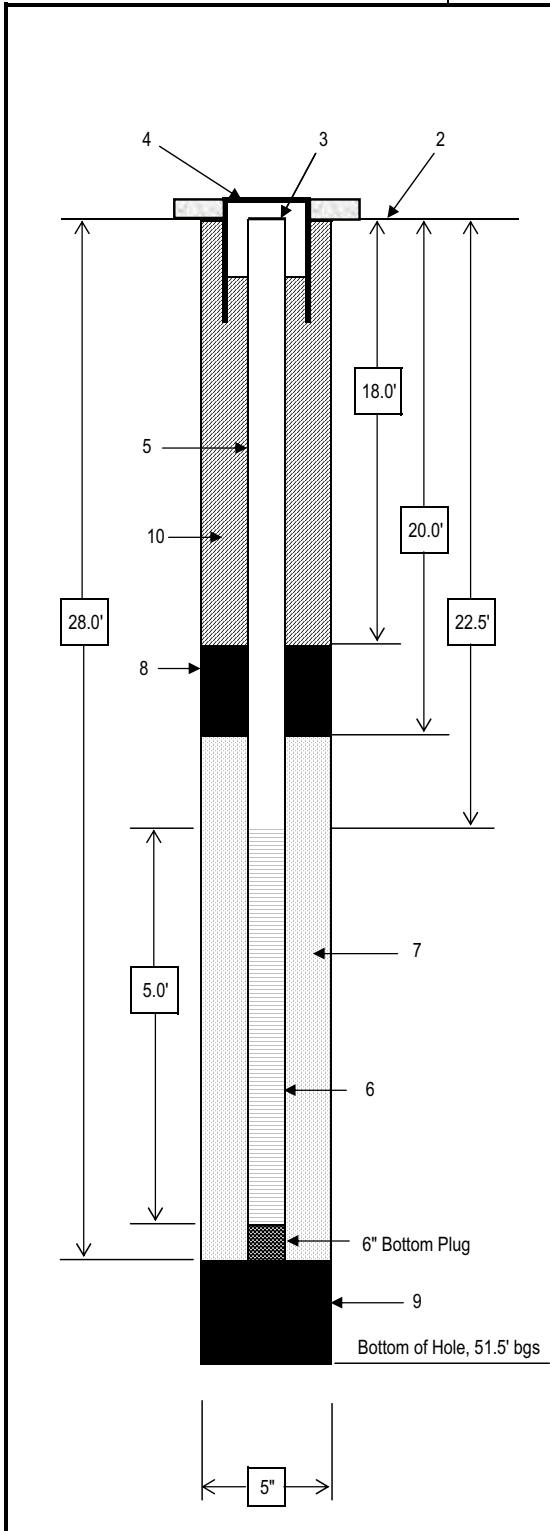
PROJECT NUMBER: 331536.A1.ST.09.ZZ	BORING NUMBER: CB-3	SHEET 1 OF 1
WELL COMPLETION DIAGRAM		

PROJECT: **Santa Rosa IRWP Seasonal Storage Project** LOCATION: **West College, 65 Stony Circle, Santa Rosa, CA**

GROUND SURFACE ELEVATION: **113.7 ft (City of SR BM)** DRILLING CONTRACTOR: **Gregg Drilling and Testing, Martinez, CA**

DRILLING METHOD AND EQUIPMENT: **Rotary wash, truck-mounted Mobil B-53 rig, 4-7/8 inch diameter drag bit**

WATER LEVEL AND DATE: 18.0 ft bgs, 1/19/07	DRILLING START DATE & TIME: 12/28/06, 15:00	DRILLING FINISH DATE & TIME: 12/29/06, 10:15	LOGGER: A. Bayoumi
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SURVEY DATA

1. Location (Northing, Easting): **1922233.1, 6345437.3 (CCS 83)**
2. Ground surface elevation: **113.7 ft**
3. Top of casing elevation: **113.5 ft**

WELL CONSTRUCTION

4. Wellhead protection cover type: **Flush-mounted cylindrical box with bolting metal lid**
5. Diameter and type of well casing: **2-inch diameter, Schedule 40 PVC**
6. Screen type: **Pre-Pack, 3.5" outside diameter**
 - a) Slot size: **0.020-inch (exterior and interior screens)**
7. Filter Pack (placed between outside of pre-pack screen and walls of borehole):
 - a) Type of material: **Clean Sand (Monterey #2-12)**
 - b) Quantity used: **Approx. 200 lbs.**
8. Upper Seal:
 - a) Type of material: **hydrated bentonite pellets**
 - b) Quantity used: **Approx. 25 lbs.**
9. Lower Seal:
 - a) Type of material: **hydrated bentonite pellets**
 - b) Quantity used: **Approx. 125 lbs.**
10. Grout:
 - a) Grout mix used: **Neat cement (approx. one 94 lb sack cement per 6 gallons water)**
 - b) Method of placement: **Tremie**
 - c) Quantity of well casing grout: **Approx. 15 gal.**

DEVELOPMENT

Development method:
Development time:
Estimated purge volume:

COMMENTS

Borehole was drilled and sampled to a depth of 51.5 feet bgs using a 4-7/8 inch diameter drag bit. Upon completion, the bottom of the hole was backfilled to the base of the well with bentonite pellets.



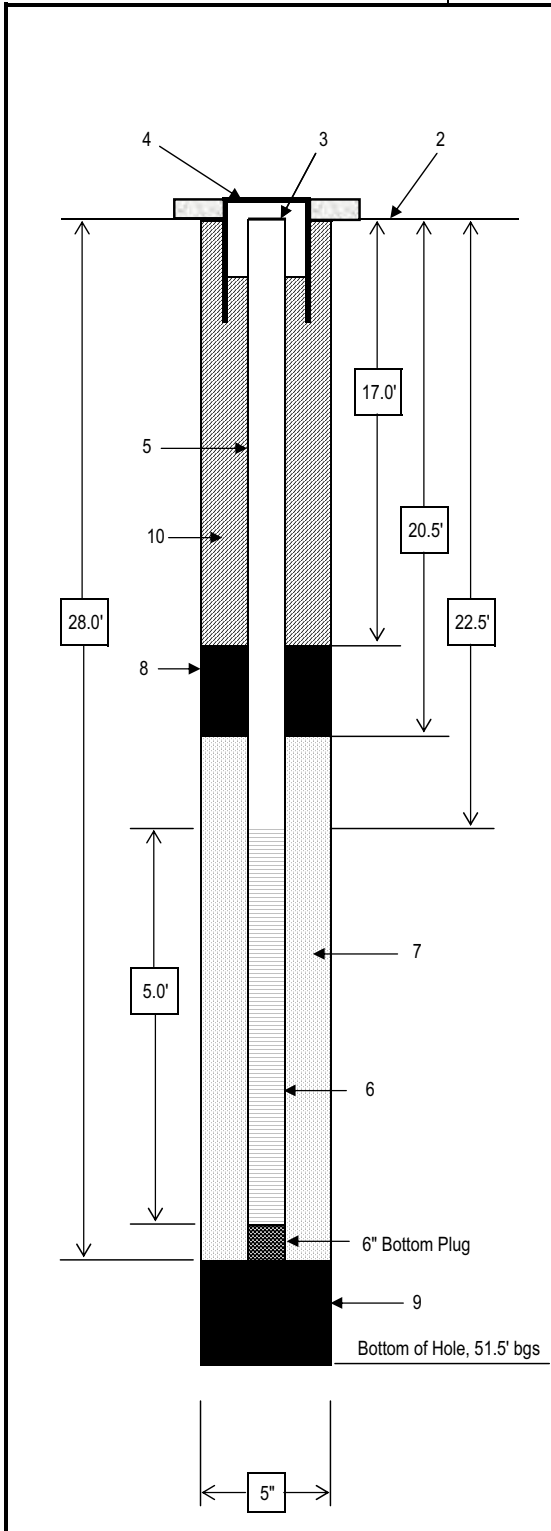
PROJECT NUMBER: 331536.A1.ST.09.ZZ	BORING NUMBER: CB-4	SHEET 1 OF 1
WELL COMPLETION DIAGRAM		

PROJECT: **Santa Rosa IRWP Seasonal Storage Project** LOCATION: **West College, 65 Stony Circle, Santa Rosa, CA**

GROUND SURFACE ELEVATION: **117.4 ft (City of SR BM)** DRILLING CONTRACTOR: **Gregg Drilling and Testing, Martinez, CA**

DRILLING METHOD AND EQUIPMENT: **Rotary wash, truck-mounted Mobil B-53 rig, 4-7/8 inch diameter drag bit**

WATER LEVEL AND DATE: 14.9 ft bgs, 1/19/07	DRILLING START DATE & TIME: 12/29/06, 11:20	DRILLING FINISH DATE & TIME: 12/29/06, 16:20	LOGGER: A. Bayoumi
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SURVEY DATA

- Location (Northing, Easting): **1922182.7, 6346080.8 (CCS 83)**
- Ground surface elevation: **117.4 ft**
- Top of casing elevation: **117.1 ft**

WELL CONSTRUCTION

- Wellhead protection cover type: **Flush-mounted cylindrical box with bolting metal lid**
- Diameter and type of well casing: **2-inch diameter, Schedule 40 PVC**
- Screen type: **Pre-Pack, 3.5" outside diameter**
 - Slot size: **0.020-inch (exterior and interior screens)**
- Filter Pack (placed between outside of pre-pack screen and walls of borehole):
 - Type of material: **Clean Sand (Monterey #2-12)**
 - Quantity used: **Approx. 200 lbs.**
- Upper Seal:
 - Type of material: **hydrated bentonite pellets**
 - Quantity used: **Approx. 25 lbs.**
- Lower Seal:
 - Type of material: **hydrated bentonite pellets**
 - Quantity used: **Approx. 200 lbs.**
- Grout:
 - Grout mix used: **Neat cement (approx. one 94 lb sack cement per 6 gallons water)**
 - Method of placement: **Tremie**
 - Quantity of well casing grout: **Approx. 10 gal.**

DEVELOPMENT

Development method:
Development time:
Estimated purge volume:

COMMENTS

Borehole was drilled and sampled to a depth of 51.5 feet bgs using a 4-7/8 inch diameter drag bit. Upon completion, the bottom of the hole was backfilled to the base of the well with bentonite pellets.



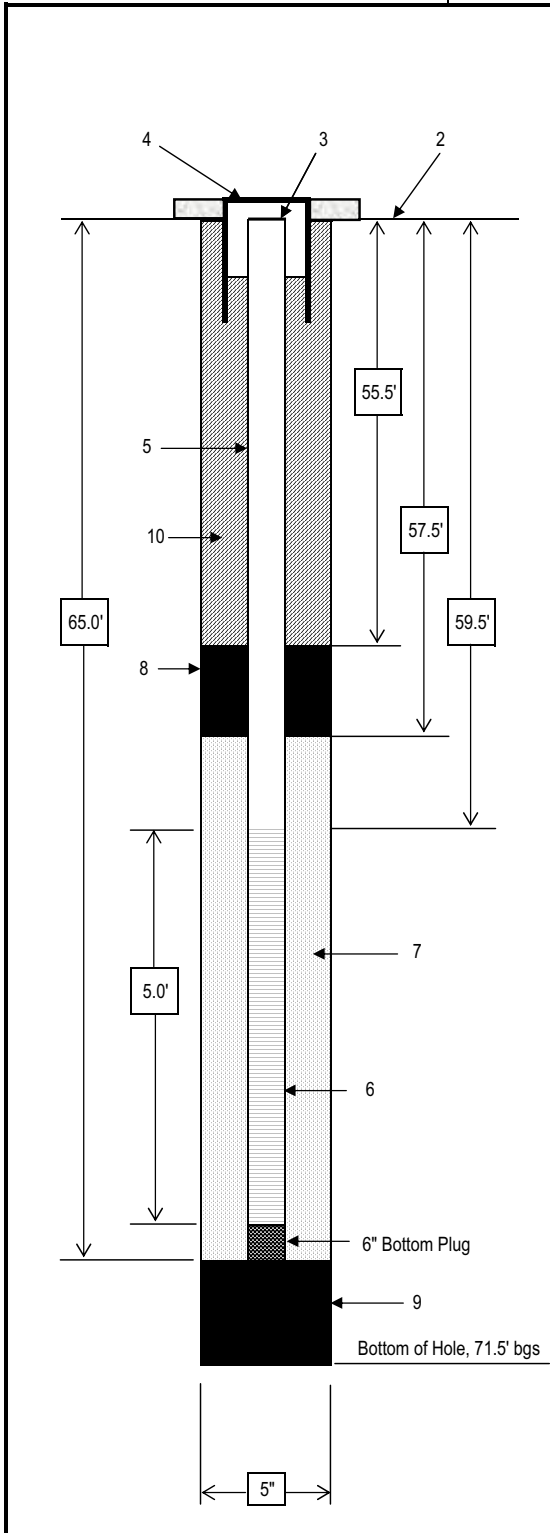
PROJECT NUMBER: 331536.A1.ST.09.ZZ	BORING NUMBER: CB-5	SHEET 1 OF 1
WELL COMPLETION DIAGRAM		

PROJECT: **Santa Rosa IRWP Seasonal Storage Project** LOCATION: **West College, 65 Stony Circle, Santa Rosa, CA**

GROUND SURFACE ELEVATION: **113.5 ft (City of SR BM)** DRILLING CONTRACTOR: **Gregg Drilling and Testing, Martinez, CA**

DRILLING METHOD AND EQUIPMENT: **Rotary wash, truck-mounted Mobil B-53 rig, 4-7/8 inch diameter drag bit**

WATER LEVEL AND DATE: 13.7 ft bgs, 1/19/07	DRILLING START DATE & TIME: 1/2/07, 08:50	DRILLING FINISH DATE & TIME: 1/3/07, 10:30	LOGGER: A. Bayoumi
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SURVEY DATA

1. Location (Northing, Easting): **1922853.4, 6345849.2 (CCS 83)**
2. Ground surface elevation: **113.5 ft**
3. Top of casing elevation: **113.3 ft**

WELL CONSTRUCTION

4. Wellhead protection cover type: **Flush-mounted cylindrical box with bolting metal lid**
5. Diameter and type of well casing: **2-inch diameter, Schedule 40 PVC**
6. Screen type: **Pre-Pack, 3.5" outside diameter**
 - a) Slot size: **0.020-inch (exterior and interior screens)**
7. Filter Pack (placed between outside of pre-pack screen and walls of borehole):
 - a) Type of material: **Clean Sand (Monterey #2-12)**
 - b) Quantity used: **Approx. 250 lbs.**
8. Upper Seal:
 - a) Type of material: **hydrated bentonite pellets**
 - b) Quantity used: **Approx. 15 lbs.**
9. Lower Seal:
 - a) Type of material: **hydrated bentonite pellets**
 - b) Quantity used: **Approx. 50 lbs.**
10. Grout:
 - a) Grout mix used: **Neat cement (approx. one 94 lb sack cement per 6 gallons water)**
 - b) Method of placement: **Tremie**
 - c) Quantity of well casing grout: **Approx. 35 gal.**

DEVELOPMENT

Development method:
Development time:
Estimated purge volume:

COMMENTS

Borehole was drilled and sampled to a depth of 71.5 feet bgs using a 4-7/8 inch diameter drag bit. Upon completion, the bottom of the hole was backfilled to the base of the well with bentonite pellets.



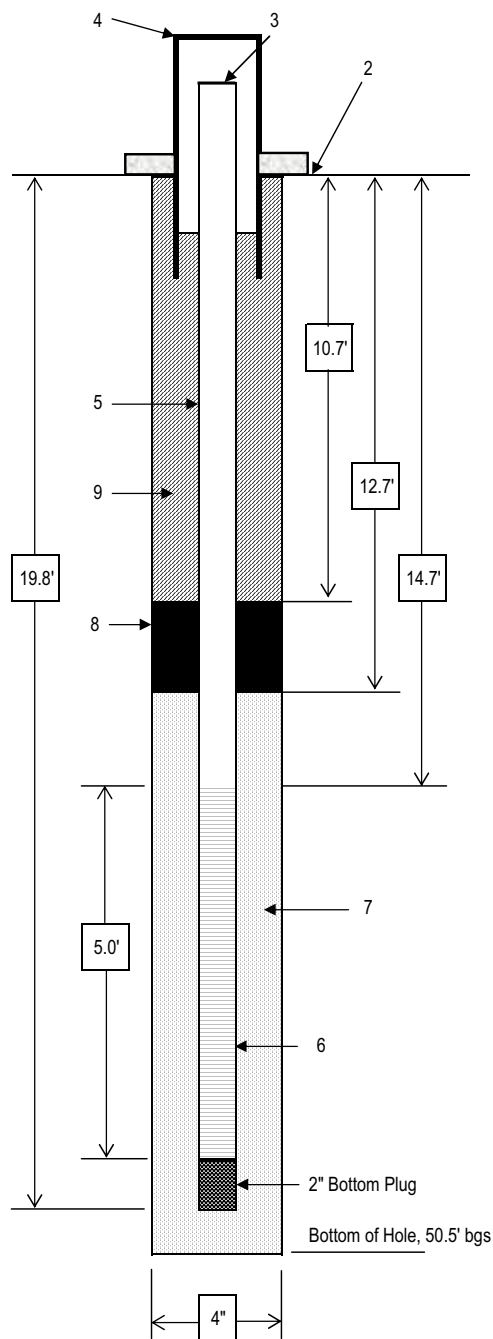
PROJECT NUMBER: 331536.A1.ST.09.ZZ	BORING NUMBER: JNB-2	SHEET 1 OF 1
WELL COMPLETION DIAGRAM		

PROJECT: **Santa Rosa IRWP Seasonal Storage Project** LOCATION: **Jordan Winery, 1474 Alexander Valley Road, Healdsburg, CA**

GROUND SURFACE ELEVATION: **417.5 ft (City of SR BM)** DRILLING CONTRACTOR: **Gregg Drilling and Testing, Martinez, CA**

DRILLING METHOD AND EQUIPMENT: **Rotary wash, all-terrain track-mounted CME 850 rig, 3-7/8 inch diameter drag bit and HQ bit**

WATER LEVEL AND DATE: Dry, 2/2/07	DRILLING START DATE & TIME: 12/15/06, 14:30	DRILLING FINISH DATE & TIME: 12/15/06, 15:45	LOGGER: A. Bayoumi
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SURVEY DATA

1. Location (Northing, Easting): **1999887.9, 6322438.7 (CCS 83)**
2. Ground surface elevation: **417.5 ft**
3. Top of casing elevation: **420 ft**

WELL CONSTRUCTION

4. Wellhead protection cover type: **Raised monument well box with locking lid**
5. Diameter and type of well casing: **1-inch diameter, Schedule 40 PVC**
6. Screen type: **1-inch diameter, Schedule 40 PVC**
 - a) Slot size: **0.020-inch (exterior and interior screens)**
7. Filter Pack (placed between outside of pre-pack screen and walls of borehole):
 - a) Type of material: **Clean Sand (Monterey #3)**
 - b) Quantity used: **Approx. 200 lbs.**
8. Upper Seal:
 - a) Type of material: **3/8-inch hydrated bentonite chips**
 - b) Quantity used: **Approx. 50 lbs.**
9. Grout:
 - a) Grout mix used: **Neat cement (approx. one 94 lb sack cement per 6 gallons water)**
 - b) Method of placement: **Tremie**
 - c) Quantity of well casing grout: **Approx. 5 gal.**

DEVELOPMENT

Development method:
Development time:
Estimated purge volume:

COMMENTS

Monitoring well drilled to a depth of 50.5 feet bgs using a 3-7/8 inch diameter drag bit and HQ bit. Well was set at 19.8 feet bgs on top of caved rock.



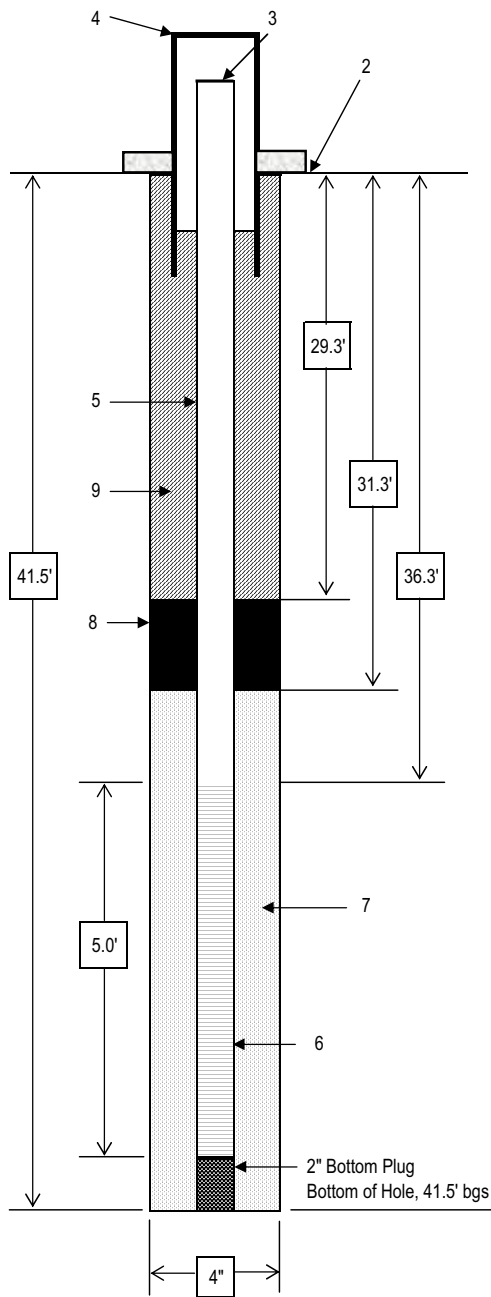
PROJECT NUMBER: 331536.A1.ST.09.ZZ	BORING NUMBER: JSB-2	SHEET 1 OF 1
WELL COMPLETION DIAGRAM		

PROJECT: **Santa Rosa IRWP Seasonal Storage Project** LOCATION: **Jordan Winery, 1474 Alexander Valley Road, Healdsburg, CA**

GROUND SURFACE ELEVATION: **417.2 ft (City of SR BM)** DRILLING CONTRACTOR: **Gregg Drilling and Testing, Martinez, CA**

DRILLING METHOD AND EQUIPMENT: **Rotary wash, all-terrain track-mounted CME 850 rig, 3-7/8 inch diameter drag bit and HQ bit**

WATER LEVEL AND DATE: 13.5 bgs, 2/2/07	DRILLING START DATE & TIME: 12/13/06, 14:10	DRILLING FINISH DATE & TIME: 12/13/06, 15:45	LOGGER: A. Bayoumi
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SURVEY DATA

1. Location (Northing, Easting): **1997952.7, 6325078.2 (CCS 83)**
2. Ground surface elevation: **417.2 ft**
3. Top of casing elevation: **419.7 ft**

WELL CONSTRUCTION

4. Wellhead protection cover type: **Raised monument well box with locking lid**
5. Diameter and type of well casing: **1-inch diameter, Schedule 40 PVC**
6. Screen type: **1-inch diameter, Schedule 40 PVC**
 - a) Slot size: **0.020-inch (exterior and interior screens)**
7. Filter Pack (placed between outside of pre-pack screen and walls of borehole):
 - a) Type of material: **Clean Sand (Monterey #3)**
 - b) Quantity used: **Approx. 100 lbs.**
8. Upper Seal:
 - a) Type of material: **3/8-inch hydrated bentonite chips**
 - b) Quantity used: **Approx. 50 lbs.**
9. Grout:
 - a) Grout mix used: **Neat cement (approx. one 94 lb sack cement per 6 gallons water)**
 - b) Method of placement: **Tremie**
 - c) Quantity of well casing grout: **Approx. 15 gal.**

DEVELOPMENT

Development method:
Development time:
Estimated purge volume:

COMMENTS

Monitoring well drilled to a depth of 41.5.0 feet bgs using a 3-7/8 inch diameter drag bit and HQ bit.