

WELL COMPLETION DIAGRAM

PROJECT: Topock Alternative Freshwater Source Evaluation

LOCATION: 1 mi north I-40 & HWY 10, Golden Shores, AZ

DRILLING METHOD/EQUIPMENT: Exploratory boring dual air rotary, Foster DR-24, 8" dia; reamed to construct well

DRILLING CONTRACTOR: BOART LONGYEAR

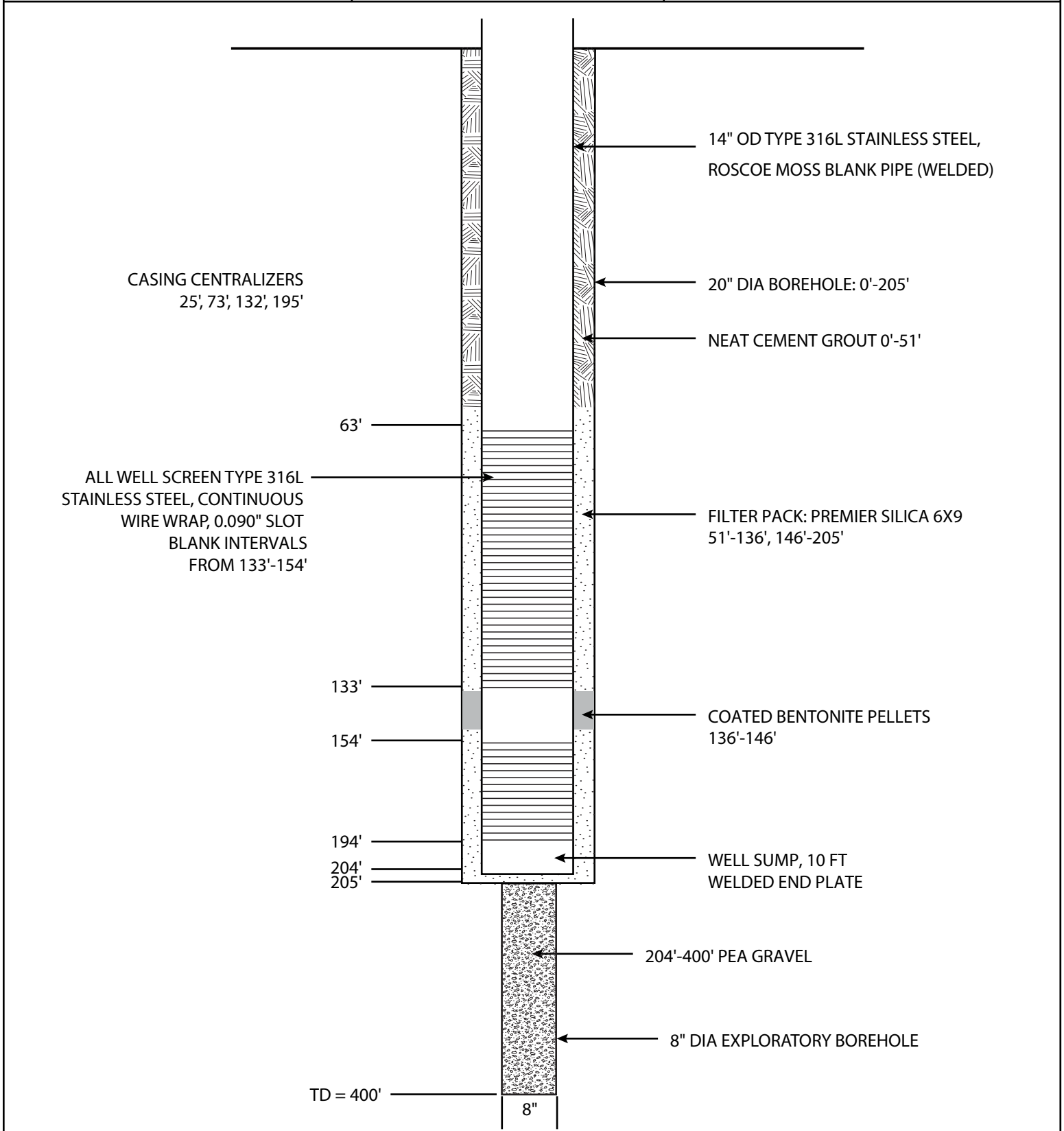
START: 6/1/2014 END: 6/20/2014

LOGGER: E. Ludwig, G. Frey (Groundwater Partners, Inc.)

34° 43' 24.55", 114° 28' 42.22"

SURFACE ELEVATION (FT): 465

DEPTH TO WATER (FT BGS): 6.5





PROJECT NUMBER: <b>428373.FS.06</b>	WELL ID: <b>HNWR-1A</b>	SHEET: <b>1</b> OF: <b>14</b>
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## SOIL BORING LOG

PROJECT: <i>Topock Alternative Freshwater Source Evaluation</i>	LOCATION: <i>HNWR-1 Site: 1.0 mile north of I-40 and HWY 10, Golden Shores, AZ</i>		
DRILLING METHOD AND EQUIPMENT: <i>Dual Rotary, DR-24, 8-inch diameter exploratory borehole, 20-inch diameter ream</i>			
GROUND SURFACE ELEVATION (FT): <b>465</b>	DRILLING CONTRACTOR: <i>Layne Christensen (Exploration Borehole: 10/2013), Boart Longyear (Ream and Well Install 6/2014)</i>		
LATITUDE: <b>34° 43' 24.55"</b>	START: <b>10/16/13</b>	WELL INFO: <b>14" SS Steel, 0.090", Screen: CWW</b>	WATER LEVEL (FT BGS): <b>6.5</b>
LONGITUDE: <b>114° 28' 42.22"</b>	FINISH: <b>10/20/13</b>	LOGGER: <b>E. Ludwig P.G., Garrett Frey</b>	TOTAL DEPTH (FT BGS): <b>400</b>

DEPTH (FT) BELOW SURFACE	WELL CONSTRUCTION		USCS GROUP SYMBOL	SOIL DESCRIPTION	COMMENTS
				SOIL NAME, USCS GROUP SYMBOL, COLOR, RELATIVE DENSITY, CONSISTENCY, GRAIN SIZE, GRAIN SHAPE, PLASTICITY	DEPTH OF CASING, PENETRATION RATE, DATE AND TIME
0	NEAT CEMENT GROUT (20-INCH DIAMETER BOREHOLE)  14" DIAMETER BLANK, STAINLESS STEEL TYPE 316 L CASING		ML	<b>SILT WITH GRAVEL (ML)</b> - Dark grayish brown (10YR 4/2), 95% non-plastic silt, 5% gravel, gravel is coarse to fine, subangular	1145 16/16/2013 Soil samples were collected using a 5-gallon bucket from the cyclone.
5					Dry Slightly moist
10					Moist
15					Wet All sample are saturated below 15 ft
20			CL	<b>LEAN CLAY (CL)</b> - Dark grayish brown (10YR 4/2), medium plasticity, 95% clay, 5% silt	1200 10/16/2013 1228 10/16/2013
25			ML	<b>SILT WITH GRAVEL (ML)</b> - Dark grayish brown (10YR 4/2), 95% non-plastic silt, 5% gravel, gravel is coarse to fine, subangular	
30					



PROJECT NUMBER: <b>428373.FS.06</b>	WELL ID: <b>HNWR-1A</b>	SHEET: <b>2</b> OF: <b>14</b>
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## SOIL BORING LOG

PROJECT: <i>Topock Alternative Freshwater Source Evaluation</i>	LOCATION: <i>HNWR-1 Site: 1.0 mile north of I-40 and HWY 10, Golden Shores, AZ</i>		
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GROUND SURFACE ELEVATION (FT): <b>465</b>	DRILLING CONTRACTOR: <i>Layne Christensen (Exploration Borehole: 10/2013), Boart Longyear (Ream and Well Install 6/2014)</i>		
LATITUDE: <b>34° 43' 24.55"</b>	START: <b>10/16/13</b>	WELL INFO: <b>14" SS Steel, 0.090", Screen: CWW</b>	WATER LEVEL (FT BGS): <b>6.5</b>
LONGITUDE: <b>114° 28' 42.22"</b>	FINISH: <b>10/20/13</b>	LOGGER: <b>E. Ludwig P.G., Garrett Frey</b>	TOTAL DEPTH (FT BGS): <b>400</b>

DEPTH (FT) BELOW SURFACE	WELL CONSTRUCTION	USCS GROUP SYMBOL	SOIL DESCRIPTION	COMMENTS
			SOIL NAME, USCS GROUP SYMBOL, COLOR, RELATIVE DENSITY, CONSISTENCY, GRAIN SIZE, GRAIN SHAPE, PLASTICITY	DEPTH OF CASING, PENETRATION RATE, DATE AND TIME
30	NEAT CEMENT GROUT (20-INCH DIAMETER BOREHOLE)  14" DIAMETER BLANK, STAINLESS STEEL TYPE 316 L CASING	ML	<b>SILT WITH GRAVEL (ML)</b> - Dark grayish brown (10YR 4/2), 95% non-plastic silt, 5% gravel, gravel is coarse to fine, subangular	
35		SP-SM	<b>POORLY GRADED SAND WITH SILT AND GRAVEL (SP-SM)</b> - Brown (10YR 5/3) 70% very fine to fine sands, 10% silt, 20% subangular well graded gravel up to 1/2"	
40				
45				Slow penetration rates 45-55'
50		GW	<b>WELL GRADED GRAVEL WITH SAND (GW)</b> - Dark reddish gray (2.5YR 4/1) and dark greenish gray (GLEYS 2 4/1), 60-90% rounded to subangular gravel up to 2", 10-40% poorly graded subangular medium sand	
55				
60				1335 10/16/2013



PROJECT NUMBER:  
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WELL ID:  
**HNWR-1A**

SHEET: **3** OF: **14**

**SOIL BORING LOG**

PROJECT:	<i>Topock Alternative Freshwater Source Evaluation</i>	LOCATION:	<i>HNWR-1 Site: 1.0 mile north of I-40 and HWY 10, Golden Shores, AZ</i>
DRILLING METHOD AND EQUIPMENT:	<i>Dual Rotary, DR-24, 8-inch diameter exploratory borehole, 20-inch diameter ream</i>		
GROUND SURFACE ELEVATION (FT):	465	DRILLING CONTRACTOR:	<i>Layne Christensen (Exploration Borehole: 10/2013), Boart Longyear (Ream and Well Install 6/2014)</i>
LATITUDE:	34° 43' 24.55"	START:	10/16/13
		WELL INFO:	14" SS Steel, 0.090", Screen: CWW
LONGITUDE:	114° 28' 42.22"	FINISH:	10/20/13
		LOGGER:	<i>E. Ludwig P.G., Garrett Frey</i>
			WATER LEVEL (FT BGS): 6.5
			TOTAL DEPTH (FT BGS): 400

DEPTH (FT) BELOW SURFACE	WELL CONSTRUCTION	USCS GROUP SYMBOL	SOIL DESCRIPTION	COMMENTS
			SOIL NAME, USCS GROUP SYMBOL, COLOR, RELATIVE DENSITY, CONSISTENCY, GRAIN SIZE, GRAIN SHAPE, PLASTICITY	DEPTH OF CASING, PENETRATION RATE, DATE AND TIME
60	14" BLANK CASING			
65				
70				
75	PREMIER SILICA SAG FILTER PACK 4" DIAMETER 0.001 SLOTTED SPAN LBS STEEL 1/4" X 3/8" WIRE MESH MESH SCREEN	GW	<b>WELL GRADED GRAVEL WITH SAND (GW)</b> - Dark reddish gray (2.5YR 4/1) and dark greenish gray (GLEYS 2 4/1), 60-90% rounded to subangular gravel up to 2", 10-40% poorly graded subangular medium sand	1559 10/16/2013 1634 10/16/2013
80				
85				
90				



PROJECT NUMBER:  
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WELL ID:  
**HNWR-1A**

SHEET: **4** OF: **14**

**SOIL BORING LOG**

PROJECT: *Topock Alternative Freshwater Source Evaluation* LOCATION: *HNWR-1 Site: 1.0 mile north of I-40 and HWY 10, Golden Shores, AZ*

DRILLING METHOD AND EQUIPMENT: *Dual Rotary, DR-24, 8-inch diameter exploratory borehole, 20-inch diameter ream*

GROUND SURFACE ELEVATION (FT): *465* DRILLING CONTRACTOR: *Layne Christensen (Exploration Borehole: 10/2013), Boart Longyear (Ream and Well Install 6/2014)*

LATITUDE: *34° 43' 24.55"* START: *10/16/13* WELL INFO: *14" SS Steel, 0.090", Screen: CWW* WATER LEVEL (FT BGS): *6.5*

LONGITUDE: *114° 28' 42.22"* FINISH: *10/20/13* LOGGER: *E. Ludwig P.G., Garrett Frey* TOTAL DEPTH (FT BGS): *400*

DEPTH (FT) BELOW SURFACE	WELL CONSTRUCTION	USCS GROUP SYMBOL	SOIL DESCRIPTION	COMMENTS
			SOIL NAME, USCS GROUP SYMBOL, COLOR, RELATIVE DENSITY, CONSISTENCY, GRAIN SIZE, GRAIN SHAPE, PLASTICITY	DEPTH OF CASING, PENETRATION RATE, DATE AND TIME
90	<p>PREMIER SILICA &amp; FLUOROPACK #4 DIAMETER 100' OF 3" WELLS STEEL TUBE IS 1/4" WIRE MESH SCREEN</p>	GW	<b>WELL GRADED GRAVEL WITH SAND (GW)</b> - Dark reddish gray (2.5YR 4/1) and dark greenish gray (GLEYS 2 4/1), 60-90% rounded to subangular gravel up to 2", 10-40% poorly graded subangular medium sand	1647 13/16/2013
95				0834 13/17/2013
100				
105				
110				
115				
120				0848 10/17/2013



PROJECT NUMBER: <b>428373.FS.06</b>	WELL ID: <b>HNWR-1A</b>	SHEET: <b>5</b>	OF: <b>14</b>
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### SOIL BORING LOG

PROJECT: <i>Topock Alternative Freshwater Source Evaluation</i>	LOCATION: <i>HNWR-1 Site: 1.0 mile north of I-40 and HWY 10, Golden Shores, AZ</i>		
DRILLING METHOD AND EQUIPMENT: <i>Dual Rotary, DR-24, 8-inch diameter exploratory borehole, 20-inch diameter ream</i>			
GROUND SURFACE ELEVATION (FT): <i>465</i>	DRILLING CONTRACTOR: <i>Layne Christensen (Exploration Borehole: 10/2013), Boart Longyear (Ream and Well Install 6/2014)</i>		
LATITUDE: <i>34° 43' 24.55"</i>	START: <i>10/16/13</i>	WELL INFO: <i>14" SS Steel, 0.090", Screen: CWW</i>	WATER LEVEL (FT BGS): <i>6.5</i>
LONGITUDE: <i>114° 28' 42.22"</i>	FINISH: <i>10/20/13</i>	LOGGER: <i>E. Ludwig P.G., Garrett Frey</i>	TOTAL DEPTH (FT BGS): <i>400</i>

DEPTH (FT) BELOW SURFACE	WELL CONSTRUCTION	USCS GROUP SYMBOL	SOIL DESCRIPTION	COMMENTS
			SOIL NAME, USCS GROUP SYMBOL, COLOR, RELATIVE DENSITY, CONSISTENCY, GRAIN SIZE, GRAIN SHAPE, PLASTICITY	DEPTH OF CASING, PENETRATION RATE, DATE AND TIME
120	PREMIER SILICA 60 FILTER PACK  14" DIAMETER 304" STD STAINLESS STEEL TYPE 316 WIRE WRAP SCREEN  14" DIAMETER BLANK STAINLESS STEEL TYPE 316 L CASING  COATED BENTONITE PELLETS 1/4"	GW	<b>WELL GRADED GRAVEL WITH SAND (GW)</b> - Dark reddish gray (2.5YR 4/1) and dark greenish gray (GLE 2 4/1), 60-90% rounded to subangular gravel up to 2", 10-40% poorly graded subangular medium sand	1218 10/17/2013
125				1250 10/17/2013
130				
135				
140				0935 10/17/2013
145				1016 10/17/2013
150				1018 10/17/2013



PROJECT NUMBER: <b>428373.FS.06</b>	WELL ID: <b>HNWR-1A</b>	SHEET: <b>6</b> OF: <b>14</b>
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## SOIL BORING LOG

PROJECT: <i>Topock Alternative Freshwater Source Evaluation</i>	LOCATION: <i>HNWR-1 Site: 1.0 mile north of I-40 and HWY 10, Golden Shores, AZ</i>		
DRILLING METHOD AND EQUIPMENT: <i>Dual Rotary, DR-24, 8-inch diameter exploratory borehole, 20-inch diameter ream</i>			
GROUND SURFACE ELEVATION (FT): <b>465</b>	DRILLING CONTRACTOR: <i>Layne Christensen (Exploration Borehole: 10/2013), Boart Longyear (Ream and Well Install 6/2014)</i>		
LATITUDE: <b>34° 43' 24.55"</b>	START: <b>10/16/13</b>	WELL INFO: <b>14" SS Steel, 0.090", Screen: CWW</b>	WATER LEVEL (FT BGS): <b>6.5</b>
LONGITUDE: <b>114° 28' 42.22"</b>	FINISH: <b>10/20/13</b>	LOGGER: <b>E. Ludwig P.G., Garrett Frey</b>	TOTAL DEPTH (FT BGS): <b>400</b>

DEPTH (FT) BELOW SURFACE	WELL CONSTRUCTION	USCS GROUP SYMBOL	SOIL DESCRIPTION	COMMENTS
			SOIL NAME, USCS GROUP SYMBOL, COLOR, RELATIVE DENSITY, CONSISTENCY, GRAIN SIZE, GRAIN SHAPE, PLASTICITY	DEPTH OF CASING, PENETRATION RATE, DATE AND TIME
150	<p style="font-size: small; text-align: center;">14" DIAMETER BLANK STAINLESS STEEL TYPE 316 L CASING</p>			1350 10/17/2013
155				
160				
165	<p style="font-size: small; text-align: center;">PREMIER SILICA &amp; FLUOR POLYMER FILTER PACK</p> <p style="font-size: small; text-align: center;">14" DIAMETER 3/8" SLOT STAINLESS STEEL TYPE 316 WIRE WRAP REAM DRILLING WELLS SCREEN</p>	GW	<b>WELL GRADED GRAVEL WITH SAND (GW)</b> - Dark reddish gray (2.5YR 4/1) and dark greenish gray (GLE Y 2 4/1), 60-90% rounded to subangular gravel up to 2", 10-40% poorly graded subangular medium sand	1410 10/17/2013 1442 10/17/2013
170				
175				
180				



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SHEET: **7** OF: **14**

**SOIL BORING LOG**

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DRILLING METHOD AND EQUIPMENT: *Dual Rotary, DR-24, 8-inch diameter exploratory borehole, 20-inch diameter ream*

GROUND SURFACE ELEVATION (FT): **465** DRILLING CONTRACTOR: *Layne Christensen (Exploration Borehole: 10/2013), Boart Longyear (Ream and Well Install 6/2014)*

LATITUDE: *34° 43' 24.55"* START: *10/16/13* WELL INFO: *14" SS Steel, 0.090", Screen: CWW* WATER LEVEL (FT BGS): **6.5**

LONGITUDE: *114° 28' 42.22"* FINISH: *10/20/13* LOGGER: *E. Ludwig P.G., Garrett Frey* TOTAL DEPTH (FT BGS): **400**

DEPTH (FT) BELOW SURFACE	WELL CONSTRUCTION	USCS GROUP SYMBOL	SOIL DESCRIPTION	COMMENTS
			SOIL NAME, USCS GROUP SYMBOL, COLOR, RELATIVE DENSITY, CONSISTENCY, GRAIN SIZE, GRAIN SHAPE, PLASTICITY	DEPTH OF CASING, PENETRATION RATE, DATE AND TIME
180	<p>14" DIAMETER BLANK, STAINLESS STEEL TYPE 316 L CASING</p> <p>14" DIAMETER 0.090" SLOTS STAINLESS STEEL TYPE 316 L WIRE WRAP SCREEN</p> <p>PREMIER SILICA GEL FILTER PACK</p>	GW	<b>WELL GRADED GRAVEL WITH SAND (GW)</b> - Dark reddish gray (2.5YR 4/1) and dark greenish gray (GLE Y 2 4/1), 60-90% rounded to subangular gravel up to 2", 10-40% poorly graded subangular medium sand	1457 10/17/2013
185				1537 10/17/2013
190				
195				
200				1545 10/17/2013
205				0818 10/18/2013
210	<p>PEA GRAVEL</p>			











PROJECT NUMBER:  
**428373.FS.06**

WELL ID:  
**HNWR-1A**

SHEET: **11** OF: **14**

**SOIL BORING LOG**

PROJECT: *Topock Alternative Freshwater Source Evaluation* LOCATION: *HNWR-1 Site: 1.0 mile north of I-40 and HWY 10, Golden Shores, AZ*

DRILLING METHOD AND EQUIPMENT: *Dual Rotary, DR-24, 8-inch diameter exploratory borehole, 20-inch diameter ream*

GROUND SURFACE ELEVATION (FT): *465* DRILLING CONTRACTOR: *Layne Christensen (Exploration Borehole: 10/2013), Boart Longyear (Ream and Well Install 6/2014)*

LATITUDE: *34° 43' 24.55"* START: *10/16/13* WELL INFO: *14" SS Steel, 0.090", Screen: CWW* WATER LEVEL (FT BGS): *6.5*

LONGITUDE: *114° 28' 42.22"* FINISH: *10/20/13* LOGGER: *E. Ludwig P.G., Garrett Frey* TOTAL DEPTH (FT BGS): *400*

DEPTH (FT) BELOW SURFACE	WELL CONSTRUCTION	USCS GROUP SYMBOL	SOIL DESCRIPTION	COMMENTS
			SOIL NAME, USCS GROUP SYMBOL, COLOR, RELATIVE DENSITY, CONSISTENCY, GRAIN SIZE, GRAIN SHAPE, PLASTICITY	DEPTH OF CASING, PENETRATION RATE, DATE AND TIME
300	PEAGRAVEL	GW	<b>WELL GRADED GRAVEL WITH SAND (GW)</b> - Dark reddish gray (2.5YR 4/1) and dark greenish gray (GLEYS 2 4/1), 60-90% rounded to subangular gravel up to 2", 10-40% poorly graded subangular medium sand	1035 10/19/2013
320				1058 10/19/2013 1131 10/19/2013
330				



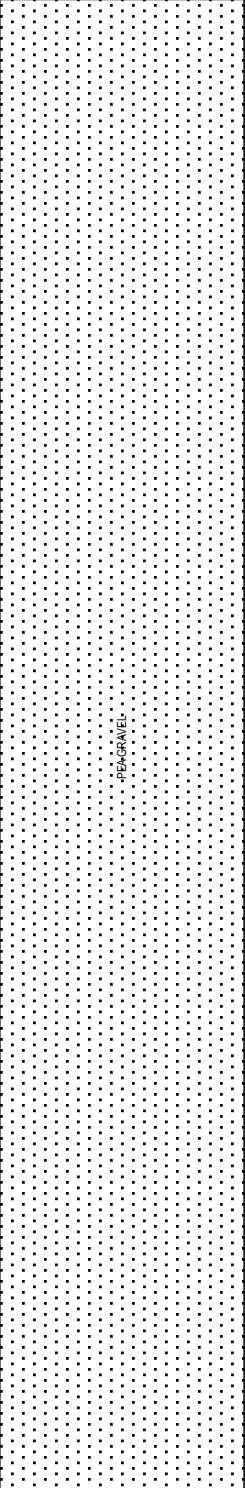
428373.FS.06

WELL ID: **HNWR-1A**

SHEET: **12** OF: **14**

**SOIL BORING LOG**

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GROUND SURFACE ELEVATION (FT): 465	DRILLING CONTRACTOR: <i>Layne Christensen (Exploration Borehole: 10/2013), Boart Longyear (Ream and Well Install 6/2014)</i>		
LATITUDE: 34° 43' 24.55"	START: 10/16/13	WELL INFO: 14" SS Steel, 0.090", Screen: CWW	WATER LEVEL (FT BGS): 6.5
LONGITUDE: 114° 28' 42.22"	FINISH: 10/20/13	LOGGER: <i>E. Ludwig P.G., Garrett Frey</i>	TOTAL DEPTH (FT BGS): 400

DEPTH (FT) BELOW SURFACE	WELL CONSTRUCTION	USCS GROUP SYMBOL	SOIL DESCRIPTION	COMMENTS
			SOIL NAME, USCS GROUP SYMBOL, COLOR, RELATIVE DENSITY, CONSISTENCY, GRAIN SIZE, GRAIN SHAPE, PLASTICITY	DEPTH OF CASING, PENETRATION RATE, DATE AND TIME
330	 <p>WELL GRADED GRAVEL WITH SAND</p>	GW	<b>WELL GRADED GRAVEL WITH SAND (GW)</b> - Dark reddish gray (2.5YR 4/1) and dark greenish gray (GLEYS 2 4/1), 60-90% rounded to subangular gravel up to 2", 10-40% poorly graded subangular medium sand	1151 10/19/2013
335				1234 10/19/2013
340				1243 10/19/2013
345				1720 10/19/2013
350				1730 10/19/2013
355				
360				



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WELL ID: **HNWR-1A**

SHEET: **13** OF: **14**

**SOIL BORING LOG**

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DEPTH (FT) BELOW SURFACE	WELL CONSTRUCTION	USCS GROUP SYMBOL	SOIL DESCRIPTION	COMMENTS
			SOIL NAME, USCS GROUP SYMBOL, COLOR, RELATIVE DENSITY, CONSISTENCY, GRAIN SIZE, GRAIN SHAPE, PLASTICITY	DEPTH OF CASING, PENETRATION RATE, DATE AND TIME
360	PEAGRAVEL	GW	<b>WELL GRADED GRAVEL WITH SAND (GW)</b> - Dark reddish gray (2.5YR 4/1) and dark greenish gray (GLEYS 2 4/1), 60-90% rounded to subangular gravel up to 2", 10-40% poorly graded subangular medium sand	0745 10/20/13
365				0815 10/20/2013 0920 10/20/2013
370				
375				
380				
385				
390				



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WELL ID: **HNWR-1A**

SHEET: **14** OF: **14**

**SOIL BORING LOG**

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LONGITUDE: 114° 28' 42.22"	FINISH: 10/20/13	LOGGER: <i>E. Ludwig P.G., Garrett Frey</i>	TOTAL DEPTH (FT BGS): 400

DEPTH (FT) BELOW SURFACE	WELL CONSTRUCTION	USCS GROUP SYMBOL	SOIL DESCRIPTION	COMMENTS
			SOIL NAME, USCS GROUP SYMBOL, COLOR, RELATIVE DENSITY, CONSISTENCY, GRAIN SIZE, GRAIN SHAPE, PLASTICITY	DEPTH OF CASING, PENETRATION RATE, DATE AND TIME
390	[Dotted pattern]	GW	<b>WELL GRADED GRAVEL WITH SAND (GW)</b> - Dark reddish gray (2.5YR 4/1) and dark greenish gray (GLE Y 2 4/1), 60-90% rounded to subangular gravel up to 2", 10-40% poorly graded subangular medium sand	Total depth of pilot borehole: 400 ft. 0955 10/20/2013
395				
400				

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