

STATE OF NEVADA
DIVISION OF WATER RESOURCES
WELL DRILLER'S REPORT

OFFICE USE ONLY
Log No. 108506
Permit No. _____
Basin 212

PRINT OR TYPE ONLY
DO NOT WRITE ON BACK

Please complete this form in its entirety in
accordance with NRS 534.170 and NAC 534.340

NOTICE OF INTENT NO. 10945

1. OWNER Pioneer Americas LLC ADDRESS AT WELL LOCATION East of Eastgate Rd
MAILING ADDRESS 190 Coronadolet Overa #1530 South of Warm Springs Rd.
St Louis, MO 63105-3467 Subdivision Name: _____ County: Clark

2. LOCATION NW 1/4 NW 1/4 Sec 13 T 22 N R 62 E Latitude 36 02' 31" UTM E NAD 27
PERMIT/WAIVER No. 17813101007 Longitude 115 00' 36" N NAD 83/WGS 84

Issued by Water Resources Parcel No. _____

3. WORKED PERFORMED New Well Replace Recondition
 Deepen Other _____

4. PROPOSED USE Domestic Irrigation Test Stock
 Municipal/Industrial Monitor

5. WELL TYPE Cable Rotary RVC
 Air Other Rolo Sonic

6. LITHOLOGIC LOG

Material	Water Strata	From	To	Thick-ness
<u>Silty Sand</u>		<u>0</u>	<u>36</u>	<u>30</u>
<u>Sand with Gravel</u>	<u>X</u>	<u>30</u>	<u>47</u>	<u>17</u>
<u>Silty Clay</u>	<u>X</u>	<u>47</u>	<u>93</u>	<u>46</u>
<u>Silty Sand</u>	<u>X</u>	<u>93</u>	<u>127</u>	<u>34</u>
<u>Gravelly Sand</u>	<u>X</u>	<u>127</u>	<u>153</u>	<u>26</u>
<u>Silty Clay</u>		<u>153</u>	<u>178</u>	<u>25</u>
<u>Clayey Silt</u>		<u>178</u>	<u>221</u>	<u>43</u>
<u>Sandy Silt</u>	<u>X</u>	<u>221</u>	<u>288</u>	<u>67</u>
<u>Silty Clay</u>	<u>X</u>	<u>288</u>	<u>298</u>	<u>10</u>

9. WELL CONSTRUCTION
Depth Drilled 298 Feet Depth Cased 288 Feet

HOLE DIAMETER (BIT SIZE)

Inches	From	To	Feet
<u>10</u>	<u>0</u>	<u>175</u>	<u>Feet</u>
<u>8</u>	<u>175</u>	<u>298</u>	<u>Feet</u>

CASING SCHEDULE

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
<u>4.5</u>	<u>10.8</u>	<u>.237</u>	<u>0</u>	<u>255</u>
<u>4.5</u>	<u>2.86</u>	<u>.337</u>	<u>285</u>	<u>288</u>

Perforations: Factory Slot

Type of perforation _____
Size of perforation .010

From 255 feet to 285 feet
From _____ feet to _____ feet
From _____ feet to _____ feet
From _____ feet to _____ feet

Annular Seal: Yes No

Neat Cement to _____ Pumped Poured
 Cement Grout 3 to 248 Pumped Poured
 Concrete Grout 0 to 3 Pumped Poured
 ≥30% Bentonite Grout to _____ Pumped Poured

Gravel Pack: Yes No 252 to 286 Pumped Poured
Type: 10-20 Sand

Bentonite Chips: Yes No 286 to 298 Pumped Poured
Type: 1/4 Pellets 248 252

Date started: 6-16 20 09
Date completed: 7-16 20 09

7. Water Level
Static water level: 0 feet below land surface
Artesian Flow: _____ G.P.M. _____ P.S.I.
Water Temperature: _____ °F
Quality: _____

8. WELL TEST DATA

TEST METHOD: Bailor Pump Air Lift

G.P.M.	Draw Down (Feet Below Static)	Time (Hours)

10. DRILLER'S CERTIFICATION
This well was drilled under my supervision and the report is true to the best of my knowledge.

Name Boart Longyear Co Contractor
Address 7773 W Seldon Ln Contractor
Peoria, Az 85345
Nevada contractor's license number 0010157
issued by the State Contractor's Board
Nevada driller's license number issued by the M-2147
Division of Water Resources, the on-site driller

Signed [Signature]
By driller performing actual drilling on site or contractor
Date 7-23-09