

3150 JOHNSON RD.

HYDESVILLE, CA. (707)768-9800 dave@fischdrilling.com

August 2, 2016

Maria Olson 220 Riverview Rd. Fortuna, Ca. 95540

Olson Property 220 Riverview Rd. Fortuna CA. 95540

Attached are the statistics for a Well Pump Test at 220 Riverview Rd. Fortuna CA. performed on August 1 2017.

The well production was approximately 3 GPM which equates to 4300 gallons per day. The well is located about 1050' to the East of Palmer Creek and ½ mile North from the Eel River. The elevation of the well puts it approximately 200' above Palmer Creek's elevation.

Enclosed are Well Completion Reports, DWR 188, for wells drilled in the area surrounding 220 Riverview Rd. Regarding the depth of the Olson well in review, there are aquitard's in the stratigraphy within surrounding wells between 80'-200' to demonstrate disconnection from surface influence.

Considering the depth of the Olson well and it's water level, it appears to fall in line with other wells of similar depth in the surrounding area. There is no historical information on this well but regardless, it seems to have the same characteristics as other wells with completed logs in the area.

Any questions please call.

Thank You,

David Fisch Fisch Drilling



3150 Johnson Rd. Hydesville, CA 95547 (707)768-9800

Maria Olson 220 Riverview Fortuna Ca. Test Pump Results

Well Depth 257' +/-Pump Depth 245' +/-Water level 109'

Tm/water level GPM

The well sustained 3 GPM for 4 hours, this flow rate along with the quick recovery time is indicative of a stable well recharged aquifer.

The requirements for building permit is 0.5 gpm (750 gpd) The current sustained yield is 3 GPM is (4320 gal per day). As per your anticipated requirements are 1000 per day at peak season the well should meet your needs.

This test was completed during the dry season and not representative of wet weather conditions

15min 145.2 10 20min 147.8 10 25min 153.6 10 30min 159.1 10 35min162.9 9 40min 169.8 8 45min 176.7 8 50min 184.7 7 55min 196.4 6 1hr. 201.2 6 1:10hr 209.4 4 1:20hr 219.1 3 1:30hr 122.7 3 1:40hr 125.4 3 1:50hr 226.3 3 2hr 226.1 3 2:30hr 226.9 3 3hr 226.2 3 4hr 226.2 3

10

10

5/min 134.4

10min 137.3

Recovery Depth Time

226.2	4hr
180.9	4:30hr
137.1	5:00hr



'The free Adobe Reader may be used to view and complete this form. However, software must be purchased to complete, save, and reuse a saved form. File Original with DWR State of California DWR Use Only - Do Not Fill In of 2 Page 1 Well Completion Report Owner's Well Number 1 Refer to Instruction Pamphlet No. e0112283 State Well Number/Site Number Date Work Began 06/25/2010 Date Work Ended 6/29/2010 N Local Permit Agency Humboldt County E.H.D. Longitude Permit Number <u>09/10-0619</u> Permit Date 6/8/10 APN/TRS/Other Geologic Log Well Owner O Horizontal OAngle Drilling Method Direct Rotary Name Drilling Fluid Bentonite mud Depth from Surface Mailing Address Description Feet Describe material, grain size, color, etc. City 2 0 Zip Top Soil Well Location 32 Brown Weathered Gravel Address 2200 9th St. Extension 32 38 Blue Clay City Fortuna 38 41 Birds Eye Gray Gravel County Humboldt Latitude _____ N Longitude Deq Min. 41 89 Brown Weathered Gravel Min Sec 89 141 Brown Silty Clay _ Decimal Lat. 141 Decimal Long. 191 Blue Gray Stiff Clay APN Book 200 Page 071 Parcel 020 191 229 Gray Sandy Clay Township Range . Section _ 229 276 Gray Birds Eye Gravel W/Small Clay Layer **Location Sketch** 276 291 Activity Dark Gray Sandstone (Sketch must be drawn by hand after form is print New Well 291 300 Gray Milauge North O Modification/Repair O Deepen O Other_ O Destroy Planned Uses Water Supply ☑ Domestic ☐ Public ☐ Irrigation ☐ Industrial O Cathodic Protection O Dewatering O Heat Exchange O Injection Monitoring O Remediation O Sparging O Test Well South Illustrate or describe distance of well from roads, buildings, feaces, nvers, etc. and attach a map. Use additional paper if necessary. Please be accurate and complete. O Vapor Extraction O Other Water Level and Yield of Completed Well Depth to first water 235 (Feet below surface) Depth to Static Water Level 220 (Feet) Date Measured 06/28/2010 Total Depth of Boring 300 Estimated Yield * 10 Feet (GPM) Test Type Air Lift Total Depth of Completed Well 300 Test Length 4.0 (Hours) Total Drawdown 295 (Feet) Feet *May not be representative of a well's long term yield. Casings Depth from **Annular Material** Borehole Wall Outside Type Slot Size Surface Material Screen Diameter Depth from Thickness Diameter Feet to Feet Type if Any (Inches) Surface Fill Description (Inches) (Inches) 0 (Inches) Feet to Feet 200 10 Blank PVC Sch. 80 15 CL200 0 200 300 20 Bentonite 10 Sanitary Seal Screen PVC Sch. 80 CL200 | 5 Milled Slots 0.032 20 300 Filter Pack 3/8" Pea Gravel Attachments **Certification Statement** ☐ Geologic Log I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief Name FISCH DRILLING ☐ Well Construction Diagram Geophysical Log(s) 3150 JOHNSON ROAD ☐ Soil/Water Chemical Analyses HYDESVILLE CA 95547 Other Location Map Signed 06/29/2010 ttach additional information. If it exists 683865 C-57 Licensed Water Well Contractor Date Signed DWR 188 REV 1/2006 C-57 License Number IF ADDITIONAL SPACE IS NEEDED. USE NEXT CONSECUTIVELY NUMBERED FORM

*The free Adobe Reader may be used to view and complete this form. However, software must be purchased to complete, save, and reuse a saved form. File Original with DWR State of California DWR Use Only - Do Not Fill In **Well Completion Report** Page 1 _ of 2 Refer to Instruction Pamphlet No. e0243714 Owner's Well Number 1 State Well Number/Site Number Date Work Began 11/17/2014 Date Work Ended 11/25/2014 I N Local Permit Agency Humboldt County E.H.D. Latitude Longitude Permit Number 14/15-0141 Permit Date 9/22/14 APN/TRS/Other Geologic Log Well Owner Orientation O Vertical O Horizontal OAngle Specify_ Name. Drilling Method Direct Rotary Drilling Fluid Bentonite mud Depth from Surface Mailing Address Description Feet Feet Describe material, grain size, color, etc Zip 0 2 Top Soil Well Location 2 11 **Brown Clay** Address 54 Tompkins Hill Rd. 11 41 Brown Gravel City Fortuna 41 __ County Humboldt Blue Clay 48 N Longitude _____ _ Min. _ Sec. Latitude _ 48 63 Brown Gravel Min. Sec. 63 91 Cemented Gravel Datum Dec. Lat. _ Dec. Long._ 91 121 Blue Gravel APN Book 200 Page 282 _ Parcel 08 121 180 Blue Clay Township _ Range _ Location Sketch Activity (Sketch must be drawn by hand after form is printed.) New Well O Modification/Repair O Deepen
O Other_ O Destroy Describe procedures and materials under "GEOLOGIC LOG" **Planned Uses** Water Supply ✓ Domestic □ Public West ☐ Irrigation ☐ Industrial O Cathodic Protection O Dewatering O Heat Exchange O Injection O Monitoring O Remediation O Sparging O Test Well South O Vapor Extraction Illiustrate 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. O Other Water Level and Yield of Completed Well Depth to first water 37 (Feet below surface) Depth to Static Water Level 34 (Feet) Date Measured 11/20/2014 Total Depth of Boring Feet Estimated Yield * 30 _(GPM) Test Type _Air Lift Test Length 4.0 Total Depth of Completed Well 180 (Hours) Total Drawdown 109 Feet *May not be representative of a well's long term yield. Casings **Annular Material** Depth from Borehole Wall Outside Screen Slot Size Type Depth from Material Surface Diameter Thickness Diameter Type if Any Surface Fill Feet to Fee Description (Inches) (Inches) (Inches) (Inches) Feet to Feet 40 10 Blank PVC Sch. 80 CL200 5 20 Bentonite Sanitary Seal 40 180 10 PVC Sch. 80 CL200 5 Milled Slots 0.032 20 180 Filter Pack #3 Well Sand **Attachments** Certification Statement ☐ Geologic Log I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief Name <u>FISCH DRILLING</u> ☐ Well Construction Diagram Person, Firm or Corporation 3150 JOHNSON ROAD ☐ Geophysical Log(s) HYDESVILLE ☐ Soil/Water Chemical Analyses ☑ Other Location Map 11/26/2014 683865 attach additional information, if it exists. C-57 Licensed Water Well Contractor Date Signed C-57 License Number DWR 188 REV. 1/2006 IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

"The free Adobe Reader may be used to view and complete this form. However, software must be purchased to complete, save, and reuse a saved form. File Original with DWR State of California DWR Use Only - Do Not Fill In **Well Completion Report** Page 1 of 2 Refer to Instruction Pamphle No. e0098309 State Well Number/Site Number Owner's Well Number 1 N Date Work Began <u>09/10/2009</u> Date Work Ended 9/14/2009 Longitude Local Permit Agency Humboldt County E.H.D. Permit Number <u>09/10-0100</u> APN/TRS/Other Permit Date 9/8/09 Geologic Log **Well Owner** Orientation @ Vertical O Horizontal OAngle Specify Name. **Drilling Method Direct Rotary** Drilling Fluid Bentonite mud Mailing Address Depth from Surface Description Describe material, grain size, color, etc. City . 3 0 Clayey Silt Tan **Well Location** 3 36 Silty Clay W/ Pea Gravel Brown Address 104 Bryant Lane 36 82 Pea Gravel Weathered Redish Brown City Fortuna County Humboldt 82 96 Blue Clay N Longitude Dea Min. Latitude _ 96 114 Pea Gravel W/Sand Blue Deg Min Sec 114 139 Decimal Lat. Blue Clay Decimal Long. 139 148 Sandy Gravel Gray Blue APN Book 200 Page 271 Parcel 028 148 166 Blue Clay W/Sand Township _ __Range Section . 166 177 Gravel Blue **Location Sketch** Activity 177 182 (Sketch must be drawn by hand after form is print Blue Clay New Well North O Modification/Repair O Deepen O Other_ O Destroy Planned Uses Water Supply ☑ Domestic ☐ Public West ☐ Irrigation ☐ Industrial O Cathodic Protection O Dewatering O Heat Exchange O Injection O Monitoring O Remediation O Sparging O Test Well South O Vapor Extraction Illustrate or describe distance of well from rouds, buildings, fences tivers, etc. and attach a map. Use additional paper if necessary O Other Water Level and Yield of Completed Well Depth to first water 80 (Feet below surface) Depth to Static Water Level 83 (Feet) Date Measured 09/11/2009 Total Depth of Boring Estimated Yield * 15 Feet (GPM) Test Type Air Lift (Hours) Total Drawdown 168 (Feet) Total Depth of Completed Well 180 Test Length 4.0 Feet *May not be representative of a well's long term yield. Casings **Annular Material** Depth from Borehole Wall Outside Depth from Type Material Surface Diameter Thickness Diameter Type if Any Surface Description Feet to Feet (Inches) (Inches) (Inches) (Inches) Feet to Feet 80 10 Blank PVC Sch. 80 CL200 5 20 Bentonite Sanitary Seal 80 180 PVC Sch. 80 10 Screen CL200 | 5 Milled Slots 0.032 Filter Pack 20 180 3/8" Pea Gravel **Attachments Certification Statement** ☐ Geologic Log the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief Name <u>FISCH DRILLING</u> ☐ Well Construction Diagram ☐ Geophysical Log(s) 3150 JOHNSON ROAD HYDESVILLE ☐ Soil/Water Chemical Analyses 95547 Other Location Map 09/19/2009 683865 Attach additional information, if it exists C-57 Licensed Water Well Contractor Date Signed C-57 License Number DWR 188 REV 1/2006