

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-11724

Exam Date: 6/6/2012

1. Current Owner: KELLY KRAMER
1288 C SOUTHSIDE BLVD
MELBA ID 83641
(208)495-2635

Or

VERNON KRAMER
7663 BASE LINE RD
MELBA ID 83641
(208)495-2635

2. Accompanied by: Kelly Kramer

Phone No:

Address:

Relationship to Permit Holder: owner

3. SOURCE

TRIBUTARY

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: Boise Kuna Canal Shares
2. Other water rights with the same point of diversion: None

C. DIVERSION AND DELIVERY SYSTEM

1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER

L3 NE1/4NW1/4

Sec. 2, Twp 01S, Rge 02W, B.M.

CANYON County

Method of Determination:

2. PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
01S	02W	2					27.0			39.0									66.0
							L 3												

Total Acres: 66

Method of Determination:

3. X Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
- X Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
- X Aerial Photo Attached (required for irrigation of 10+ acres).
- X Photo of Diversion and System Attached

4. <u>Well or Diversion</u>	<u>Pump Serial No. or Discharge</u>				
<u>ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Size</u>
	Grundfos	25	MS6000 Prod # 78355517		6"

D. FLOW MEASUREMENTS

1.

<u>Measurement</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>

2 ft cipolletti weir installed to measure canal shares available. System was not running so no measurement was made.

2. Measurements:

Horsepower equation

10 PSI Pressure based upon open discharge
90 ft lift based upon estimation. Pump was set at
100 ft and Kramer's statement that there was a
significant draw down. Static level = 58 ft.

90 ft depth

$$\frac{(\underline{25})\text{Hp} * 8.8 * 0.7}{(\underline{10})\text{PSI} * 2.31 + \underline{90}\text{ft}} = \underline{1.36}\text{ cfs}$$

E. FLOW CALCULATIONS

Measured Method:

Permit Rate (irr) = 1.60 cfs
Proof Pd (\$125.00) (max cfs) = 2.00 cfs
Found POU acres 66 * 0.02 cfs/ac = 1.32 cfs

F. VOLUME CALCULATIONS

V= (Acres Irrigated) x (Irrigation Requirement) = 66 ac 4.5 af = 297 afa Recommendation
I.R.
V= [Div Rate (cfs)] x (Days in Irr season) x 1.9835 = 1.32 cfs * 260 days * 1.9835 = 680.7 afa
D.R.

G. NARRATIVE/REMARKS/COMMENTS

The irrigation system is a 25 Hp submersible well discharging water into the farm ditch approximately 24 feet north of the well. The discharge was setup to dump into the ditch downstream of the 2 ft cipolletti weir used to measure the canal water delivery. Mr. Kramer indicated that the delivery pipe could be shifted to discharge into the ditch upstream from the weir if a measurement is necessary. The ditch runs east from this point along the northern border of the POU for approximately 600 ft. The ditch then swings southeast for approximately 750 ft then to the south to a point roughly 2/3rds of the way along the eastern side of the POU. The ditch then turns west along a ridge that allows irrigation to the northwest and also to the south. All of the property is irrigated via siphon tubes into furrows. This year he was raising carrots and onions as seed crops.

The permit was for 80 acres however the NENW of Sec 2 is also gvt lot 3 which has a legal acreage of 32.85 ac. Also in that lot is an un-irrigated hillside of approximately 3.5 acres and the farmstead that is also excluded. Except for farm roads and ditches all of the SENW is irrigated. The farm roads are considered insignificant and subject to change, therefore they are included as irrigated ground. The found POD is in agreement with the permitted POD.

The current pump is a 25 HP submersible set at 100 ft with open discharge. Kramer indicated that the static level drops fairly fast when the pump is turned on so I used a dynamic pumping level of 90 ft. He thought that the well would produce around 50 inches or 1.00 cfs. The horsepower equation gives 1.36 cfs. The EXPECTED FLOWS FOR PIPE DIAMETERS 6 in Dia = 0.98 cfs. The horsepower equation found a rate exceeding one inch per acre and the expected pipe flow and the owners estimate are at 75% of one inch per acre. Therefore the recommendation is for 1.32 cfs or one inch per acre. The permit was for a beginning season of use of 3-15 and I am recommending the current season of use standard of 3-1. There is no overlapping right with this well although the POU is also irrigated with Boise Kuna Canal Shares.

This right was permitted with the standard Moratorium limits regarding required measurement and reporting conditions. Based upon direction from Steve Lester, I am recommending that this permit be licensed with those conditions modified to the M01 condition. This right was conditioned with a water bearing zone of 58 ft through 166 ft. Based upon the well log water bearing zones were encountered between 70 ft through 164 ft. This area is outside the Boise Front Management area.

OIM

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	03/01 to 11/15	1.320 CFS	297.00 AF
<u>Totals:</u>		1.320 CFS	297.00 AF

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

Field Examiner's Name Kelly K. Christensen Date 7-5-2012

Reviewer _____ Date _____

Idaho Department of Water Resources
63-11724 LICENSING PLACE OF USE



0 660 1,320
Feet

★ LOCATION IN BASIN

PLACE OF USE
TWP 01S, RNG 2W Sec 2
Data Entry on July 5, 2012



- Found point of diversion
- Found place of use
- Township lines
- Section lines
- Quarter/quarter lines

GIS PLACE OF USE PRESENTATION
2011 AERIAL PHOTOGRAPHY
BY KELLY K CHRISTENSEN

Basin 63



FIELD EXAM CONVERSATION MEMO GW SYSTEM

PERMIT # 63-11724 STAFF KKC DATE _____

OWNER OR REP PHONE #? (Proof of Beneficial use ownership vs: Tax lot ownership in ArcMap)

APPOINTMENT DATE/TIME/PLACE

Kelly Kramer 495-2635

1288C Southside BLVD

Melba Id 83641

(Proof info)

tax lot info

Vernon Kramer

7663 Baseline Rd

Melba Id 83641

ANY APPARENT DISCREPANCIES BETWEEN PERMIT AND CURRENTLY AVAILABLE INFO?

(E.G. POU and/or POD mismatch when viewing ArcMap)

Permit = 80ac prelim shape 65ac.

Exam set 6-6-12

SYSTEM INFO

Ground Water System

Static pumping level

55' 58' well log

Application method

Dynamic pumping level

160' ? well depth?

Pump Curve available

Approx HP

approx type/number sprinklers used

Approx Operating PSI

10 PSI opendis

Measurement device type

Delivery system specifications

Well Log found

Opendis charge in 1996 - drought well inventory info

submersible pump.

pump set $\approx$ 100'

static $\approx$ 55'

diff. - 45'

() Hp * 8.8 * 0.7

(10) PSI * 2.31 + ft

= cfs

Permit Rate

Proof Pd (\$ 125)

(max cfs)

= 1.60 cfs

Found POU acres

* 0.02 cfs/ac =

63-11724.

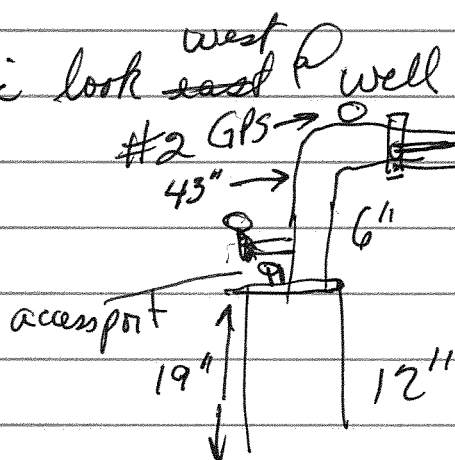
6-6-12

25HP subm. Replaced DNCE.
static drops fairly fast
Pump set @ 100"
pumps $\approx$ 50"

Borse Kuna Canal Shares

Water 58
Pump 98
deepened well to 160
25HP Grundfos MS6000
Prod # 78355517

1 pie look ^{west} east P well



1 pie look east
across canal H d gate
& weir & well discharge

1 pie of Elec Panel
canal H d gate

canal water
measurement
2' cipolletti
weir

Pipe discharge
can be moved
upstream
of weir

ditch

going east

Permit # 63-11724

Exam date 6-6-12

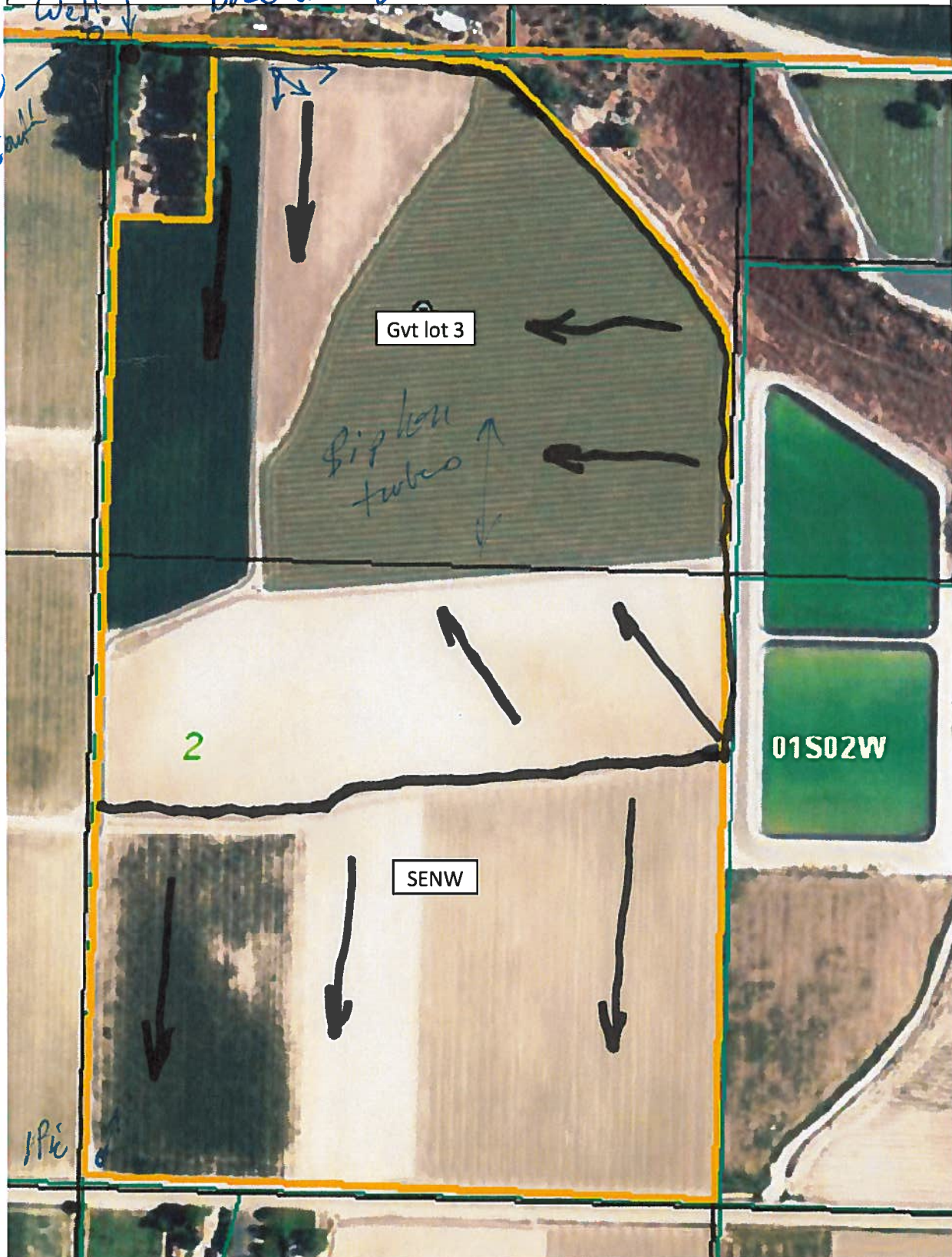
Agent KKC

Aerial photo date 2011

Twp Rng Sec QQ

1S 02W 02

Well
Base line Rd.
1/4 in
look south



4/2011

IDAHO DEPARTMENT OF WATER RESOURCES
FIELD EXAMINERS
WELL INSPECTION FORM

1. IDENTIFICATION # _____ (Tag #, etc.)

OTHER APPLICABLE # 63-11724 (Water right #, etc.)

2. OWNER Kelly Kramer Phone 495-2635

Address 1288C Southside BLVD City Melba

State Id Zip 83641 Email _____

3. WELL LOCATION (GPS required in Degrees Decimal Minutes – use PLS if GPS not available)

Lat. _____ Long. _____

Twp 1S Rge 2W Sec 2 $\frac{1}{4}$ NE $\frac{1}{4}$ NW

4. WELL CONSTRUCTION ☒ Well log attached ☐ Well log not found

Any obvious construction problems that may be a source for contamination or waste? ☐ Yes ☒ No

If yes, describe below &/or see attached (list any that apply): ☐ Photos ☐ Diagram ☐ Other

5. HYDROLOGIC INFORMATION

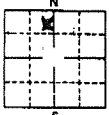
Static water if measured _____ ft. Water temperature if measured _____ °F

Flowing artesian ☐ Yes ☐ No Pressure if measured _____ psi

NOTES _____

INSPECTED BY Kelly R. Christensen DATE 6-6-12

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORTUSE TYPEWRITER OR
BALLPOINT PENState law requires that this report be filed with the Director, Department of Water Resources
within 30 days after the completion or abandonment of the well.

1. WELL OWNER Name <u>KRAMER KELLY</u> Address <u>1288 C Southside Blvd. MELBA ID 83641</u> Drilling Permit No. <u>63-92-W-3510331-000</u> Water Right Permit No. <u>63-11724</u>	7. WATER LEVEL Static water level <u>58</u> feet below land surface. Flowing? ☐ Yes ☐ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature <u>56</u> °F. Quality <u>HARD</u> Describe artesian or temperature zones below.																																																																														
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Well diameter increase ☐ Modification ☐ Abandoned (describe abandonment or modification procedures such as liners, screen, materials, plug depths, etc. in lithologic log, section 9.)	8. WELL TEST DATA ☒ Pump ☐ Bailer ☐ Air ☐ Other _____ <table border="1"><thead><tr><th>Discharge G.P.M.</th><th>Pumping Level</th><th>Hours Pumped</th></tr></thead><tbody><tr><td><u>600</u></td><td><u>NOT MEASURED</u></td><td><u>24</u></td></tr></tbody></table>	Discharge G.P.M.	Pumping Level	Hours Pumped	<u>600</u>	<u>NOT MEASURED</u>	<u>24</u>																																																																								
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4. METHOD DRILLED ☐ Rotary ☐ Air ☐ Auger ☐ Reverse rotary ☒ Cable ☐ Mud ☐ Other _____ (backhoe, hydraulic, etc.)																																																																															
5. WELL CONSTRUCTION Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____ <table border="1"><thead><tr><th>Thickness</th><th>Diameter</th><th>From</th><th>To</th></tr></thead><tbody><tr><td><u>250</u> inches</td><td><u>10</u> inches</td><td><u>2</u> feet</td><td><u>93</u> feet</td></tr><tr><td><u>250</u> inches</td><td><u>8</u> inches</td><td><u>91</u> feet</td><td><u>166</u> feet</td></tr></tbody></table> Was casing drive shoe used? ☐ Yes ☒ No <u>NO SHOE USED</u> Was a packer or seal used? ☐ Yes ☒ No <u>NO PACKER OR SEAL</u> Perforated? ☒ Yes ☐ No <u>PERFORATED IN 10" PIPES IN 8" HOLES</u> How perforated? ☒ Factory ☒ Knives ☐ Torch ☐ Gun Size of perforation? <u>1/2</u> inches by <u>3</u> inches <table border="1"><thead><tr><th>Number</th><th>From</th><th>To</th></tr></thead><tbody><tr><td><u>128</u></td><td><u>76</u> feet</td><td><u>93</u> feet</td></tr><tr><td><u>140</u></td><td><u>91</u> feet</td><td><u>161</u> feet</td></tr><tr><td></td><td></td><td></td></tr></tbody></table> Well screen installed? ☐ Yes ☒ No Manufacturer _____ Type _____ Top Packer or Headpipe _____ Bottom of Tailpipe _____ Diameter _____ Slot size _____ Set from _____ feet to _____ feet Diameter _____ Slot size _____ Set from _____ feet to _____ feet Gravel packed? ☐ Yes ☒ No ☐ Size of gravel _____ Placed from _____ feet to _____ feet Surface seal depth <u>20</u> Material used in seal: ☐ Cement grout ☒ Bentonite ☐ Puddling clay ☐ _____ Sealing procedure used: ☐ Slurry pit ☐ Temp. surface casing ☒ Overbore to seal depth Method of joining casing: ☐ Threaded ☒ Welded ☐ Solvent Weld ☐ Cemented between strata Describe access port <u>1/2 plug in cap</u>	Thickness	Diameter	From	To	<u>250</u> inches	<u>10</u> inches	<u>2</u> feet	<u>93</u> feet	<u>250</u> inches	<u>8</u> inches	<u>91</u> feet	<u>166</u> feet	Number	From	To	<u>128</u>	<u>76</u> feet	<u>93</u> feet	<u>140</u>	<u>91</u> feet	<u>161</u> feet																																																										
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6. LOCATION OF WELL Sketch map location must agree with written description  Subdivision Name _____ Lot No. _____ Block No. _____ County <u>CANYON</u> <u>NE 1/4 NW 1/4 Sec. 2, T. 1 S. R. 2 W.</u>	11. DRILLER'S CERTIFICATION I/We certify that all minimum well construction standards were complied with at the time the rig was removed. Firm Name <u>JOHNSON DRILLING</u> Firm No. <u>92</u> Address <u>792C Southside Blvd MELBA ID 83641</u> Date <u>AUG 4 1992</u> Signed by Drilling Supervisor <u>E W Johnson</u> and (Operator) <u>B. Campbell</u> (if different than the Drilling Supervisor)																																																																														

USE ADDITIONAL SHEETS IF NECESSARY — FORWARD THE WHITE COPY TO THE DEPARTMENT

State law requires that this report be filed with the Director, Department of Water Resources within 30 days after the completion or abandonment of the well.

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3. PROPOSED USE ☐ Domestic ☒ Irrigation ☐ Monitor ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection ☐ Other _____ (specify type)	9. LITHOLOGIC LOG <u>104613</u> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Bore Diam.</th> <th colspan="2">Depth</th> <th rowspan="2">Material</th> <th rowspan="2">Water Yes No</th> </tr> <tr> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td><u>10</u></td> <td><u>0</u></td> <td><u>12</u></td> <td><u>TORSOIL</u></td> <td> </td> </tr> <tr> <td><u>12</u></td> <td><u>12</u></td> <td><u>70</u></td> <td><u>BROKEN BASALT</u></td> <td> </td> </tr> <tr> <td><u>10</u></td> <td><u>70</u></td> <td><u>93</u></td> <td><u>BLACK LOOSE CINDERS</u></td> <td>☒</td> </tr> <tr> <td> </td> <td><u>93</u></td> <td><u>97</u></td> <td><u>BLACK BASALT</u></td> <td> </td> </tr> <tr> <td> </td> <td><u>97</u></td> <td><u>110</u></td> <td><u>BLACK CINDERS</u></td> <td>☒</td> </tr> <tr> <td> </td> <td><u>110</u></td> <td><u>115</u></td> <td><u>BROWN FINE CINDERS</u></td> <td> </td> </tr> <tr> <td> </td> <td><u>115</u></td> <td><u>135</u></td> <td><u>WHITE CLAY</u></td> <td> </td> </tr> <tr> <td><u>10</u></td> <td><u>135</u></td> <td><u>145</u></td> <td><u>WHITE SAND & CLAY - 030</u></td> <td>☒</td> </tr> <tr> <td><u>8</u></td> <td><u>145</u></td> <td><u>151</u></td> <td><u>WHITE SAND</u></td> <td>☒</td> </tr> <tr> <td> </td> <td><u>151</u></td> <td><u>159</u></td> <td><u>WHITE CLAY</u></td> <td> </td> </tr> <tr> <td> </td> <td><u>159</u></td> <td><u>164</u></td> <td><u>WHITE SAND</u></td> <td>☒</td> </tr> <tr> <td><u>8</u></td> <td><u>164</u></td> <td><u>166</u></td> <td><u>WHITE CLAY</u></td> <td> </td> </tr> </tbody> </table>	Bore Diam.	Depth		Material	Water Yes No	From	To	<u>10</u>	<u>0</u>	<u>12</u>	<u>TORSOIL</u>		<u>12</u>	<u>12</u>	<u>70</u>	<u>BROKEN BASALT</u>		<u>10</u>	<u>70</u>	<u>93</u>	<u>BLACK LOOSE CINDERS</u>	☒		<u>93</u>	<u>97</u>	<u>BLACK BASALT</u>			<u>97</u>	<u>110</u>	<u>BLACK CINDERS</u>	☒		<u>110</u>	<u>115</u>	<u>BROWN FINE CINDERS</u>			<u>115</u>	<u>135</u>	<u>WHITE CLAY</u>		<u>10</u>	<u>135</u>	<u>145</u>	<u>WHITE SAND & CLAY - 030</u>	☒	<u>8</u>	<u>145</u>	<u>151</u>	<u>WHITE SAND</u>	☒		<u>151</u>	<u>159</u>	<u>WHITE CLAY</u>			<u>159</u>	<u>164</u>	<u>WHITE SAND</u>	☒	<u>8</u>	<u>164</u>	<u>166</u>	<u>WHITE CLAY</u>	
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4. METHOD DRILLED ☐ Rotary ☐ Air ☐ Auger ☐ Reverse rotary ☒ Cable ☐ Mud ☐ Other _____ (backhoe, hydraulic, etc.)	10. Work started <u>JUL 1 1992</u> finished <u>AUG 1 1992</u>																																																																			
5. WELL CONSTRUCTION Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____ <table border="0" style="width: 100%;"> <tr> <td>Thickness</td> <td>Diameter</td> <td>From</td> <td>To</td> </tr> <tr> <td><u>250</u> inches</td> <td><u>10</u> inches</td> <td><u>2</u> feet</td> <td><u>93</u> feet</td> </tr> <tr> <td><u>250</u> inches</td> <td><u>8</u> inches</td> <td><u>91</u> feet</td> <td><u>166</u> feet</td> </tr> <tr> <td>_____ inches</td> <td>_____ inches</td> <td>_____ feet</td> <td>_____ feet</td> </tr> </table> Was casing drive shoe used? ☐ Yes ☒ No <u>NO SHOE USED</u> Was a packer or seal used? ☐ Yes ☒ No <u>NO PACKER USED</u> Perforated? <u>YES</u> ☒ Yes ☐ No How perforated? ☒ Factory ☐ Knife ☐ Torch ☐ Gun Size of perforation? <u>1/2</u> inches by <u>3</u> inches <table border="0" style="width: 100%;"> <tr> <td>_____ Number</td> <td>_____ From</td> <td>_____ To</td> </tr> <tr> <td><u>128</u></td> <td><u>76</u> feet</td> <td><u>93</u> feet</td> </tr> <tr> <td><u>1120</u> perforations</td> <td><u>91</u> feet</td> <td><u>161</u> feet</td> </tr> <tr> <td>_____ perforations</td> <td>_____ feet</td> <td>_____ feet</td> </tr> </table> Well screen installed? ☐ Yes ☒ No Manufacturer _____ Type _____ Top Packer or Headpipe _____ Bottom of Tailpipe _____ Diameter _____ Slot size _____ Set from _____ feet to _____ feet Diameter _____ Slot size _____ Set from _____ feet to _____ feet Gravel packed? ☐ Yes ☒ No ☐ Size of gravel _____ Placed from _____ feet to _____ feet Surface seal depth <u>20</u> Material used in seal: ☐ Cement grout ☒ Bentonite ☐ Puddling clay ☐ _____ Sealing procedure used: ☐ Slurry pit ☒ Overbore to seal depth Method of joining casing: ☐ Temp. surface casing ☒ Threaded ☒ Welded ☐ Solvent Weld ☐ Cemented between strata Describe access port <u>1 1/2 plug in cap</u>	Thickness	Diameter	From	To	<u>250</u> inches	<u>10</u> inches	<u>2</u> feet	<u>93</u> feet	<u>250</u> inches	<u>8</u> inches	<u>91</u> feet	<u>166</u> feet	_____ inches	_____ inches	_____ feet	_____ feet	_____ Number	_____ From	_____ To	<u>128</u>	<u>76</u> feet	<u>93</u> feet	<u>1120</u> perforations	<u>91</u> feet	<u>161</u> feet	_____ perforations	_____ feet	_____ feet	11. DRILLER'S CERTIFICATION I/We certify that all minimum well construction standards were complied with at the time the rig was removed. Firm Name <u>JOHNSON DRILLING</u> Firm No. <u>92</u> Address <u>372X Southside Blvd MELBA ID 83641</u> Date <u>JUL 4 1992</u> Signed by Drilling Supervisor <u>E W Johnson</u> and _____ (Operator) <u>B. Cammilleri</u> (if different than the Drilling Supervisor)																																							
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6. LOCATION OF WELL Sketch map location must agree with written description Subdivision Name _____ Lot No. _____ Block No. _____ County <u>CANYON</u> <u>NE</u> 1/4 NW 1/4 Sec. <u>2</u>, T. <u>1</u> N ☐ E ☐ S ☒ R. <u>2</u> W ☒	10. (Continued) Work started _____ finished _____																																																																			

USE ADDITIONAL SHEETS IF NECESSARY — FORWARD THE WHITE COPY TO THE DEPARTMENT

Permit # 63-11724
Exam date 6-6-2012

FIELD EXAM Photos

Agent KKC

Photo 1

You are looking west in this photo at the well and pipeline that open discharges into the beginning of the farm ditch as shown in photo 2



Photo 2

You are looking east southeast at the discharge of the pipeline from the well. Water flows east from this point.

Well



Photo set 3

This photo set shows the POU just east of the farmstead where the well is located. You are looking east on the left to south on the right.



Photo 4

This shows the west side of the POU. The well is just out of the photo on the left. You are looking south southeast in this photo West side of POU



Photo 5

This photo is looking north northeast from the southern end of the POU. The road shown in photo set 3 is just out of site on the left. The crop is carrots for seed.

