

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-10634

Exam Date: 1/29/2015

1. Current Owner: LCT DEVELOPMENT LLC
8382 N WAYNE DR STE 204
HAYDEN ID 83835
(208)762-4704

2. Accompanied by: Jim Coleman
Phone No: Same as Above

3. SOURCETRIBUTARY

GROUND WATER

B. OVERLAP REVIEW

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

C. DIVERSION AND DELIVERY SYSTEM1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER NW1/4SW1/4SW1/4 Sec. 24, Twp 51N, Rge 04W, B.M. KOOTENAI County

GROUND WATER NW1/4SW1/4SW1/4 Sec. 24, Twp 51N, Rge 04W, B.M. KOOTENAI County

Method of Determination: GPS and Maps. Injection well D0057343 (A0003210). Well 1 D0056275 (A0003271). Well 2 D0056274 (A003272)

2.

PLACE OF USE: HEATING

Twp Rge Sec	NE				NW				SW				SE				
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
51N 04W 24											X						

PLACE OF USE: COOLING

Twp Rge Sec	NE				NW				SW				SE				
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
51N 04W 24											X						

Method of Determination:

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

4.

<u>Well or Diversion ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge Size</u>
D0056275	GOULDS	10		5RWALC	
D0056274	GOULDS	15		5RWAHC	

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

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

2. Measurements:

E. FLOW CALCULATIONS☐ Additional Computation Sheets Attached

Measured Method: MEASUREMENT DATA PROVIDED BY NORWEST ENGINEERING INC. SEE ATTACHED SHEET WITH PUMP SCHEDULE. THEORETICAL CALCULATIONS WERE REQUIRED FOR THIS FIELD EXAM BECAUSE THE CONFIGURATION OF PIPING DID NOT ALLOW ADEQUATE SPACE TO INSTALL FUJI FLOWMETER

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

$$V_{D.R.} = [\text{Diversión Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 =$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{D.R.} =$$

2. Volume Calculations for Other Uses:

$$\text{HEATING} = 0.4\text{CFS} \times 200\text{DAYS} \times (18\text{HOURS}/24\text{HOURS}) \times 0.75 \times 1.9835 = 119 \text{ AF}$$

$$\text{COOLING} = 0.4\text{CFS} \times 165\text{DAYS} \times (18\text{HOURS}/24\text{HOURS}) \times 0.75 \times 1.9835 = 98.2 \text{ AF}$$

$$\text{TOTAL} = 217.2 \text{ AF}$$

G. NARRATIVE/REMARKS/COMMENTS

HEATING AND COOLING SYSTEM. WELL 1 PRODUCTION AT 72GPM OR 0.16CFS. WELL 2 PRODUCTION AT 108GPM OR 0.24CFS. TOTAL USE IS 0.40 CFS.

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>
HEATING	01/01 to 12/31	0.400 CFS	119.00 AF
COOLING	01/01 to 12/31	0.400 CFS	98.20 AF
<u>Totals:</u>		0.400 CFS	217.20 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 Adam Frickeil Date 2-5-2015

Reviewer Eric [Signature] Date 2-5-2015

WATER SOURCE HEAT PUMP SCHEDULE

DESIGNATION	HP-0.1	HP-1.1	HP-1.2	HP-1.3	HP-1.4	HP-2.1	HP-2.2	HP-2.3	HP-2.4	HP-2.5
MANUFACTURER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER
MODEL NUMBER	50PH026	50PH049	50PH038	50PH038	50PH038	50PH026	50PH049	50PH049	50PH064	50PH049
SERVICE	WALLT STORAGE RM 009	WENS & WOMENS RIMS 111A.13	TEENANT SUITE 101	TEENANT SUITE 102	NAME ENGINEERING SUITE 101	WENS & WOMENS RIMS 206,207	COLEMAN ENGINEERING SUITE 204	ABROTHSWOOD SUITE 206	TEENANT SUITE 201	LONGWELL/THARP ARCHITECTS SUITE 202
ACTUAL AIR FLOW (CFM)	650	1720	1250	1250	1250	650	1550	1550	1825	1550
ESP (PSI)	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
EBR/ENR (T)	81.0/62.6	76.3/62.3	78.0/62.0	78.0/62.0	78.0/62.0	78.0/62.2	78.0/62.0	78.0/62.0	78.0/62.0	78.0/62.0
CAP. LEAK (T/D)	27.1	52.5	39.1	39.1	39.1	27.1	54.4	54.4	63.2	54.4
CAP. LEAK (GPM)	23.8	45.6	33.7	33.7	33.7	23.2	43.9	43.9	57.9	43.9
H/T OF REFLECTION	31.6	62.0	46.8	45.8	45.6	31.6	61.8	61.8	77.5	61.8
COOLING POWER KW	1.3	2.8	2.0	2.0	2.0	1.3	2.8	2.8	3.6	2.8
EBR	20.7	22.5	23.0	23.0	23.0	24.5	22.5	22.5	22.0	22.5
EBR (T)	56.6	64.0	68.0	68.0	68.0	64.8	68.0	68.0	68.0	68.0
CAP. LEAK	25.0	46.6	37.2	37.2	37.2	24.8	48.2	48.2	59.8	48.2
H/T OF ABSORPTION	20.2	38.6	28.1	28.1	28.1	19.7	37.8	37.8	46.3	37.8
HEATING POWER KW	1.4	2.9	2.4	2.4	2.4	1.5	3.0	3.0	4.0	3.0
COP	5.3	4.7	4.7	4.7	4.7	4.8	4.7	4.7	4.4	4.7
WATER FLOW (GPM)	6	12	9	9	9	6	12.0	12.0	14.9	12.0
PD FT W/O INCHES	6.3	9.9	12.3	12.3	12.3	6.3	9.9	9.9	9.9	9.9
HOUSING	CUSTOM	CUSTOM	CUSTOM	CUSTOM	CUSTOM	CUSTOM	CUSTOM	CUSTOM	CUSTOM	CUSTOM
BLUETE (NUMBER) SIZE	2516x2	(2) 20x20x2	(2) 18x20x2	(2) 18x20x2	(2) 18x20x2	22516x2	(2) 20x20x2	(2) 20x20x2	(2) 24x20x2	(2) 20x20x2
FAN MOTOR HP	¾	1	¾	¾	¾	1	1	1	1	1
FAN SPEED	ECM MED HI	ECM HI	ECM MED HI	ECM MED HI	ECM MED HI	ECM MED HI	ECM HI	ECM HI	ECM HI	ECM HI
WCA/MOP	17.2/25	23.6/35	18.2/25	18.2/25	18.2/25	23.6/35	23.6/35	23.6/35	29/45	23.6/35
VOLTS/PHASE	208/1	208/3	208/3	208/3	208/3	208/1	208/3	208/3	208/3	208/3
HOSE KIT SIZE (IN)	1	1½	1½	1½	1½	1	1½	1½	1½	1½
VENTILATION (CFM)	145	120	-	-	-	45	-	-	-	-
NOTES & ACCESSORIES	1,2,3,4,5,6,7	1,2,3,4,5,6	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6	1,2,3,4,5,6	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6

NOTES:
1. PIPE CONDENSATE AS INDICATED ON HYDRONICS PLANS. INSTALL TRAP PER MANUFACTURERS REQUIREMENTS.
2. PROVIDE WITH 24" LENGTH HOSE KIT AS SCHEDULED RINOUT SIZE. HOSE KIT SIZE TO MATCH FLOW. ACTUAL FITTING ON HEAT PUMP MAY DIFFER.
3. CONTRACTOR TO VERIFY CUSTOMER FILTER BACK FLUSH SCHEDULED AS SCHEDULED. SEPARATE FILTER BACK SECTION TO BE PROVIDED FOR EACH HEAT PUMP. FILTER BACK SECTION TO BE PROVIDED FOR EACH HEAT PUMP. FILTER BACK SECTION TO BE PROVIDED FOR EACH HEAT PUMP. FILTER BACK SECTION TO BE PROVIDED FOR EACH HEAT PUMP.
4. PROVIDE FLEX CONNECTOR AT SUPPLY AND RETURN CONNECTIONS TO HEAT PUMP.
5. INSTALL HEAT PUMP EXACTLY AS INDICATED ON DETAIL-1/AN/02.
6. PROVIDE LOW PROFILE LITTLE GALT MODEL 89730 CONDENSATE PUMP, 1/30 HP, 120V/1 OR EQUIVALENT.

XPANSION TANK SCHEDULE

LOCATION	ET-1
MANUFACTURER	TACO
MODEL NUMBER	CA-140
ANION	MECH RM
WCE	BUILDING LOOP
E	BLAUNDER
TEU	HEAT PUMP LOOP
VOL. (GAL)	280
TEMP (°F)	35
TEMP (°F)	105
SIS PRESS (PSI)	18
SIS PRESS (PSI)	60
K VOLUME (GAL)	37
STANCE VOL. (LIMS)	37

FIRE DAMPER SCHEDULE

DESIGNATION	FD-1
MANUFACTURER	RISSON
MODEL NUMBER	FS900-2
TYPE	DYNAMIC RATED FIRE & SMOKE
FRAME	STANDARD
BLADE STACK	AIR FOL
UL RATING	2 HR
NOTES	1. INSTALL PER MANUFACTURER'S INSTRUCTIONS TO MAINTAIN UL RATING/LISTING. 2. PROVIDE ACTUATOR SUITABLE FOR CONNECTION TO FIRE ALARM SYSTEM. 3. PROVIDE FRAME SUITABLE FOR CONNECTING DUCTWORK. 4. SEE FIRE SMOKE DAMPER DETAIL 8/AN/2 WHERE APPLICABLE.

HEAT EXCHANGER SCHEDULE

DESIGNATION	HE-1
RATING BASIS: PURE WATER	
MANUFACTURER	ALFA LAVAL
MODEL NUMBER	M6-F0
TYPE	PLATE & FRAME
GPW	180
W.D. (PSI)	212
L.M.T. (°F)	50
W.D. (°F)	71.3
GPW	180
W.D. (°F)	8.91
L.M.T. (°F)	75
NOTES	1, 2, 3

LOUVER SCHEDULE

DESIGNATION	LV-1
SERVICE	INTAKE/EXHAUST
MANUFACTURER	RISSON
MODEL NUMBER	EXES200
MATERIAL	ALUMINUM
DEPTH	5"
FRAME	STANDARD
BLADE SPACING	-
BLADE POSITION	HORIZONTAL
BLADE DEFLECTION	37.5
SIZE	REFER TO DWGS
NET FREE AREA (SF)	445
NOTES	1,2,3

CIRCULATION PUMP SCHEDULE

DESIGNATION	CP-1 & CP-2
MANUFACTURER	TACO
MODEL NUMBER	F7509
LOCATION	MECH. ROOM
SERVICE	BLOC. LOOP
TYPE	BASE MOUNTED END SECTION
GPW	180
DESIGN HEAD (FT)	75
SIZE (IN)	2½x3
WATER EFFICIENCY (%)	65
SHUT-OFF HEAD (FT)	84
MOTOR SIZE (HP)	7.5
MOTOR SPEED (RPM)	1760
VOLTS/PHASE	208 / 3
NOTES	1,2,3

AIR OUTLETS

SYMBOL	1	2	3
MANUFACTURER	TITUS	TITUS	TITUS
MODEL NUMBER	W23	300RS	3300R
APPLICATION	SUPPLY	SUPPLY	RETURN/EXTR
TYPE	MODULAR	REGISTER	GRILE
MATERIALS	STEEL	STEEL	STEEL
WAGON (IN)	-	-	1½"
PATTERN	FIELD ADJUSTABLE	DOUBLE DEFLECTION	SINGLE DEFLECTION
BLADE SPACING (IN)	-	3/4"	3/4"
BLADE POSITION	-	PROT. VERTICAL REGR. HORIZONTAL	HORIZONTAL
BLADE DEFLECTION	-	45°	0°
ACCESSORIES/NOTES	1,2,4	3,4	4

1. SEE DEFLECTOR BOX DETAIL 7/AN/2.
2. PROVIDE 24x24 PANEL FOR LATENT HEAT COOLING APPLICATIONS.
3. SEE DETAIL 2/AN/2.
4. COORDINATE MOUNTING SURFACE.

WELL PUMP SCHEDULE

DESIGNATION	WP-1	WP-2
MANUFACTURER	COULDS	COULDS
MODEL NUMBER	59WALC	59WALC
LOCATION	ON SITE	ON SITE
SERVICE	WELL WATER	WELL WATER
TYPE	SUBMERSIBLE WELL	SUBMERSIBLE WELL
GPW	72	108
DESIGN HEAD (FT)	350	350
SIZE (IN)	8 STAGES	7 STAGES
WATER EFFICIENCY (%)	73.4	75.2
SHUT-OFF HEAD (FT)	467	437
MOTOR SIZE (HP)	10	15
MOTOR SPEED (RPM)	3450	3450
VOLTS/PHASE	208 / 3	208 / 3
NOTES	1,2	1,2

1. SELECTION BASED ON 50°F WATER.
2. PROVIDE MOTOR SUITABLE FOR VFD OPERATION. VFD WITH COMBINATION FUSED DISCONNECT AND KICK-UP DISCONNECT BY 230901.

ELECTRIC HEATER SCHEDULE

DESIGNATION	EH-21	EH-22
MANUFACTURER	MARKEL	MARKEL
MODEL NUMBER	E48379PW	E48379PW
LOCATION	WENS 200A	WOMENS 207A
TYPE	RECESSED WALL MOUNTED WITH FAN	RECESSED WALL MOUNTED WITH FAN
VOLTS/PHASE	120/1	120/1
KW	0.75	0.75
THROW	HORIZONTAL	HORIZONTAL
CONTROLS	BUILT IN TSTAT	BUILT IN TSTAT
NOTES	1,2,3	1,2,3

- NOTES:
1. CORROSION MOUNTING WITH OTHER TRACES.
2. PROVIDE RECESSED MOUNTING KIT.
3. PROVIDE BUILT IN THERMOSTAT.

DUCT-FREE SPLIT SYSTEM SCHEDULE

DESIGNATION	AC-1
MANUFACTURER & MODEL NUMBER	DAI WDH24
LOCATION/AREA SERVED	914.5
TYPE	DUCTLESS SPLIT
MOUNTING	WALL
CFM	675
FAN SPEED	LOW
DRIVE	DIRECT
FILTER	FACTORY
VOLTS/PHASE	115/1
MAX F.L.A.	1.2
WCA/MOP	1.5/15
TOTAL/SENS CAP. (AMB)	18.0/-
EBR/SER	13.0/14
DESIGNATION	CU-1
MANUFACTURER & MODEL NUMBER	DAI SFCB
LOCATION	ROOF ABOVE #13
VOLTS/PHASE	208/1
CAPACITY (AMB)	18.0
WCA/MOP	7.6/15
COMPRESSOR RLA	5.4
FAN F.L.A.	0.8
NO. FANS	1
FAN MOTOR HP	0.125
EBR/SEER	13.0/14
NOTES	13.0/14

1. PROVIDE CONDENSER ACCESSORIES: CYCLE PROTECTOR, PRESSURE SWITCH, DRAINAGE HEATER, LOW AMBIENT TEMPERATURE LOCKOUT, DEFROST TIMER, DEFROST VALVE, DEFROST PUMP, DEFROST PUMP LINE SET. SEE DETAIL 6/AN/2.
2. PROGRAMMABLE TSTAT.
4. SEE DETAIL 9 & 3/AN/2 FOR CU SUPPORT.

EXHAUST FAN SCHEDULE

DESIGNATION	EF-11	EF-21
MANUFACTURER	GREENHECK	GREENHECK
MODEL NUMBER	CS-A1050	CS-A1050
LOCATION	CEILING	CEILING
SERVICE	1ST FL. RR	2ND FL. RR
TYPE	BLIND CABINET	BLIND CABINET
WHEEL TYPE	CENTRIFUGAL	CENTRIFUGAL
CFM	960	960
STATIC PRESS.	0.3	0.3
TYPE DRIVE	DIRECT	DIRECT
MP. DIA. (IN)	-	-
FAN SPEED (RPM)	1095	1095
MAX SIZES	3,200	3,200
BHP	455 W	455 W
DESIGN HP	-	-
VOLTS/PHASE	120 / 1	120 / 1
CONTROL	DOCS	DOCS
ACCESSORIES/NOTES	1,2,3	1,2,3

1. PROVIDE FACTORY MOUNTED & WHEED SPEED CONTROLLER FOR DIRECT DRIVE.
2. PROVIDE BBD.
3. CONTROL WITH DOCS SCHEDULE BASED UPON OCCUPANCY.



G.D. Longwell & Associates, Inc.
10000 E. 1st Avenue, Suite 100
Denver, CO 80231
Phone: 303.755.1000
Fax: 303.755.1001
Web: www.gdlongwell.com

Project Team

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100% CDD's

Stamp: PROJECT MANAGER
MICHAEL G. O'NEILL
P.E.

Project Title: LOT OFFICE BUILDING
8992 Wayne Drive
Hayden, Idaho 83835

Drawings: SCHEDULES - HVAC

Project No: 2006-710710
Date: 10/20/2006
Drawn by: JCF
Checked by:

Sheet number: M1.2

State of Idaho
Department of Water Resources
Water Right License
95-10634

04W

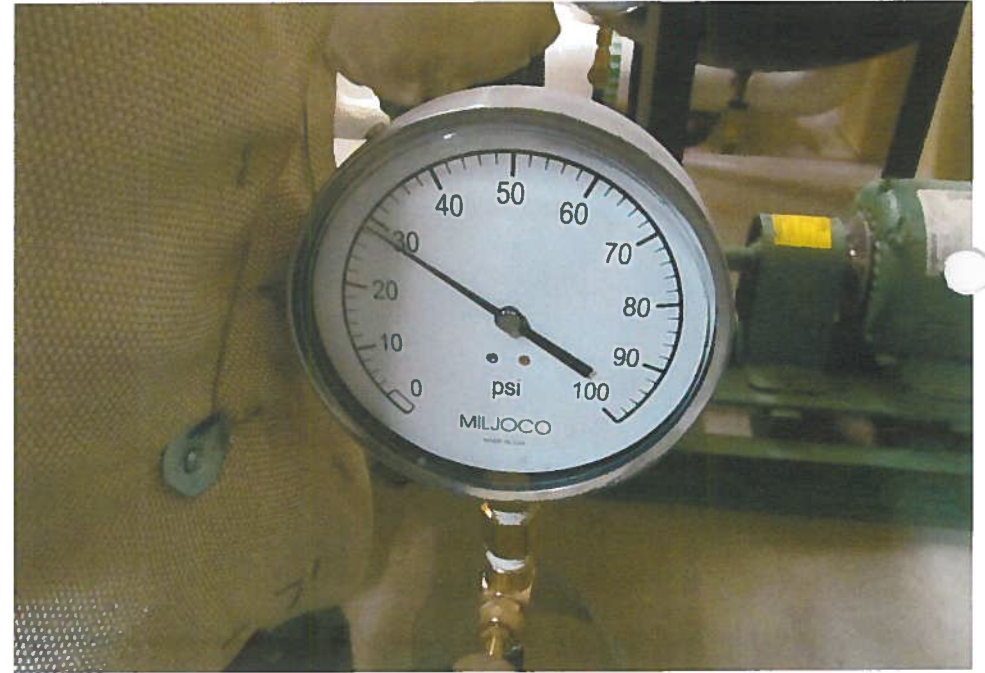
51N



-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections
-  Quarter Quarters

0 0.0075 0.015 0.03 Miles





9.5.16.34

95-10624





95-10634

95-10624





95-10634

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

1. WELL TAG NO. D D0056275
Drilling Permit No. 856657
Water right or Injection well # _____

2. OWNER:
Name LCT Development LLC
Address 1677 E Miles Ave Ste 100
City Hayden lake State ID Zip 83835

3. WELL LOCATION:
Twp. 51 North ☒ or South ☐ Rge. 04 East ☐ or West ☒
Sec. 24 NW 1/4 SW 1/4 SW 1/4

Gov't Lot _____ County Kootenai
Lat. _____ (Deg. and Decimal minutes)
Long. _____ (Deg. and Decimal minutes)
Address of Well Site 8205 Wayne Drive City Hayden
(Give at least name of road + Distance to Road or Landmark)
Lot. 1 Blk. 3 Sub. Name Merritt brothers

4. USE:
☐ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation ☒ Thermal ☐ Injection
☐ Other _____

5. TYPE OF WORK:
☒ New well ☐ Replacement well ☐ Modify existing well
☐ Abandonment ☐ Other _____

6. DRILL METHOD:
☒ Air Rotary ☐ Mud Rotary ☐ Cable ☐ Other _____

7. SEALING PROCEDURES:

Seal material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method/procedure
Super-Gel-X	0	280	37 Sack	Pour Slurry

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing	Liner	Threaded	Welded
8 in	42	267.250		Steel	☒	☐	☐	☒

Was drive shoe used? ☐ Y ☒ N Shoe Depth(s) _____

9. PERFORATIONS/SCREENS:
Perforations ☐ Y ☒ N Method _____
Manufactured screen ☒ Y ☐ N Type _____
Method of installation Set with Drill Pipe

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
265	280	30				

Length of Headpipe none Length of Tailpipe none
Packer ☒ Y ☐ N Type K Packer

10. FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method
None				

11. FLOWING ARTESIAN:
Flowing Artesian? ☐ Y ☒ N Artesian Pressure (PSIG) _____
Describe control device Well Cap

12. STATIC WATER LEVEL and WELL TESTS:
Depth first water encountered (ft) 222 Static water level (ft) 222
Water temp. (°F) 52° Bottom hole temp. (°F) _____
Describe access port well cap

Well test:

Drawdown (foot)	Discharge or yield (gpm)	Test duration (minutes)	Pump	Ballor	Air	Flowing artesian
75 Gpm	Air lift	From 280 ft	☐	☐	☒	☐

Water quality test or comments: Clear no odor

13. LITHOLOGIC LOG and/or repairs or abandonment:

Bore Dia. (in)	From (ft)	To (ft)	Remarks, lithology or description of repairs or abandonment, water temp.	Water	
				Y	N
12 in	0	18	Sand, Gravel		
10 in	18	222	Sand, Gravel		
10 in	222	280	Sand, Gravel	X	



RECEIVED

AUG 20 2009

IDWR/North

Completed Depth (Measurable): 280
Date Started: 7-23-2009 Date Completed: 8-10-2009

14. DRILLER'S CERTIFICATION:
I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name Action Drilling Inc. Co. No. 618

*Principal Driller Alvin Carris Date 8-20-09

*Driller _____ Date 8-20-09

*Operator II Matt Hansen Date 8-20-09

Operator I _____ Date _____

* Signature of Principal Driller and rig operator are required.

