

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No. 95-9055

1. Owner Black Rock Utilities, Inc.

Phone No. 208-676-8999

Current address 18168 Kimberlite Drive, Coeur d'Alene, ID 83814

2. Examiner's name Scott King

EXAM DATE August 10, 2010

3. Accompanied by Kyle Capps

Email kylec@blackrockidaho.com

Address same as above

Relationship to permit holder Manager

Phone No. same as above

4. Source Ground Water

tributary to _____

B. OVERLAP REVIEW

1. Other water rights with the same place of use 95-9045, 95-9248

2. Other water rights with the same point of diversion none

C. DIVERSION AND DELIVERY SYSTEM

1. Point(s) of Diversion:

Ident. No.	Gov't Lot	1/4	1/4	1/4	Sec	Twp	Rge	County	Method of Determination/Remarks
#4			NE	NW	16	48N	4W	Kootenai	Exam, GPS / D0013804
#8	2		SW	NW	16	48N	4W	Kootenai	Exam, GPS / D0017027
#9	2		SW	NW	16	48N	4W	Kootenai	Exam, GPS / D0013803, D0017168

2. Place(s) of Use: Method of determination Exam, 2009 Aerial Photo. See Table in Attachment
POU within the service area of Black Rock Utilities, Inc.

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	

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3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe diameter (inside), as applicable. Use the space provided or ☒ see attached.

Scale: 1" = _____

- ☒ Copy of USGS Quadrangle attached showing location(s) of point(s) of diversion and place(s) of use (required)
☒ Aerial photo attached (required for irrigation of 10+ acres)
☒ Photo of diversion and system attached

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
Well #4 (D0013804)	unknown	25	unknown	Grunfos	Model No: 150S250-13
Well #8 (D0017027)	unknown	40	unknown	Grunfos	Model No: 150S400-21
Well #9 (D0013803 & D0017168)	unknown	40	unknown	Grunfos	Model No: 150S400-19

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

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
See Narrative						

2. Measurements:

Flowmeter indicated discharge rates are: Well #4 = 105-111 gpm (fluctuating); Well #8 = 165 gpm; Well #9 = 175 gpm. Total discharge rate 445 to 451 gpm.

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E. NARRATIVE/REMARKS/COMMENTS

Three wells equipped with submersible pumps divert ground water which is pumped to serve potable water supply uses within The Golf Club at Black Rock and Black Rock North developments. Water from these wells is served directly to lower-elevation connections including approximately 62 residential lots in Onyx Circle and Tonalite Court and the sales office. The Domestic Booster Station boosts pressure for service to higher-elevation connections. The rated/design diversion capacity for these wells is 125 gpm for Well #4, 165 gpm for Well #8, and 175 gpm for Well #9 for a total of 465 gpm (1.04 cfs) based on pump capacity curves and designed operating points. At the Domestic Booster Station, well water is delivered to a 115,000-gallon concrete storage tank, and then pumped from this tank using four 10-hp Berkeley BVM16-50 booster pumps to the domestic potable water supply system.

Each well is equipped with an in-line flowmeter as follows:

Well #	Measuring Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
4	In-line flowmeter	Propeller	McCrometer	MW-500	unknown	4-inch	unknown
8	In-line flowmeter	Propeller	McCrometer	NW-504	unknown	4-inch	unknown
9	In-line flowmeter	Propeller	McCrometer	NW-504	unknown	4-inch	unknown

The public water system number assigned by the Department of Environmental Quality is #1280290.

The water system is designed to provide potable municipal services for approximately 706 equivalent residential units at The Golf Club at Black Rock and Black Rock North, golf course clubhouse and rest rooms, equestrian center, maintenance center, subdivision's sales center, fire station, and subdivision's recreational areas.

Other water rights listing the same place of use location as permit 95-9055 include 95-9045 and 95-9248. Water right 95-9045 is a license for municipal use of water diverted from Lake Coeur d'Alene with municipal uses including irrigation, storage, and fire protection. Right 95-9045 is generally utilized in the same places of use as permit 95-9055, but the potable system utilized for 95-9055 is not interconnected with the non-potable system utilized for 95-9045. Permit 95-9248 lists a place of use that is also served by 95-9055, but the systems are not connected and do not serve the same end uses.

Has the permit holder met all conditions of permit approval, including any mitigation requirements and/or measuring device installation requirements? ☒ Yes ☐ No If no, what must be done to meet the permit requirements?

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F. FLOW CALCULATIONS

Additional computation sheets attached

Measured Method:

Flow measured with permanently installed in-line flowmeters. Total measured discharge was 1.0 cfs. Pump capacity curves support the measured flows.

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = n/a \text{ (not an irrigation right)}$

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

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

2. Volume Calculations for Other Uses:

N/A: Municipal Use

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
Municipal	1/1	12/31	1.0 cfs	
Totals:			1.0 cfs	

2. Recommended Amendments

- ☐ Change P.D. as reflected on page 1 ☐ Add P.D. as reflected on page 1 ☒ None
☐ Change P.U. as reflected on page 1 ☐ Add P.U. as reflected on page 1 ☐ Other

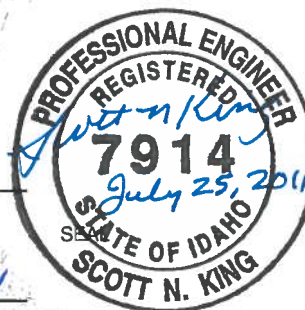
I. AUTHENTICATION

Field Examiner's Signature Scott N. King
CWRE # 12-0133

Date July 25, 2011

Reviewer [Signature]

Date 8-5-2011



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ATTACHMENT A
PERMIT RECORD AND PROOF OF BENEFICIAL USE

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State of Idaho
Department of Water Resources
Amendment of Permit

NO. 95-09055

Priority: November 13, 2000

Maximum Diversion Rate: 1.00 CFS

This is to certify, that BLACK ROCK UTILITIES INC
KYLE CAPPS, CGCS
PO BOX 3070
COEUR D ALENE ID 83816

has applied for an amendment of a permit and the amendment is APPROVED for development of water as follows:

Source: GROUND WATER

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>RATE OF DIVERSION</u>
MUNICIPAL	01/01 to 12/31	1.00 CFS

LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER	L2 (SW1/4NW1/4)	Sec. 16, Twp 48N, Rge 04W, B.M.
KOOTENAI County		
GROUND WATER	L2 (SW1/4NW1/4)	Sec. 16, Twp 48N, Rge 04W, B.M.
KOOTENAI County		
GROUND WATER	L3 (SE1/4NW1/4)	Sec. 16, Twp 48N, Rge 04W, B.M.
KOOTENAI County		
GROUND WATER	L3 (SE1/4NW1/4)	Sec. 16, Twp 48N, Rge 04W, B.M.
KOOTENAI County		
GROUND WATER	NE1/4NW1/4	Sec. 16, Twp 48N, Rge 04W, B.M.
KOOTENAI County		
GROUND WATER	L2 (SW1/4NW1/4)	Sec. 16, Twp 48N, Rge 04W, B.M.
KOOTENAI County		
GROUND WATER	L3 (SE1/4NW1/4)	Sec. 16, Twp 48N, Rge 04W, B.M.
KOOTENAI County		

CONDITIONS OF APPROVAL

1. Proof of application of water to beneficial use shall be submitted on or before **August 01, 2011**.
2. Subject to all prior water rights.
3. Project construction shall commence within one year from the date of permit issuance and shall proceed diligently to completion unless it can be shown to the satisfaction of the Director of the Department of Water Resources that delays were due to circumstances over which the permit holder had no control.
4. This right does not grant any right-of-way or easement across the land of another.
5. Right holder shall comply with the drilling permit requirements of Section 42-235, Idaho Code and applicable Well Construction Rules of the Department.
6. After specific notification by the Department, the right holder shall install a suitable measuring device or shall enter into an agreement with the Department to use power records to determine the amount of water diverted and shall annually report the information to the Department.

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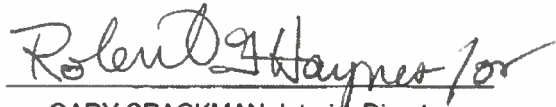
MAR 22 2012

State of Idaho
Department of Water Resources
Amendment of Permit

NO. 95-09055

7. The right holder shall not provide water diverted under this right for the irrigation of land having appurtenant surface water rights as a primary source of irrigation water except when the surface water rights are not available for use. This condition applies to all land with appurtenant surface water rights, including land converted from irrigated agricultural use to other land uses but still requiring water to irrigate lawns and landscaping.
8. Place of use is within the service area of Black Rock Utilities LLC as provided for under Idaho law.
9. A map depicting the place of use boundary for this water right at the time of this approval is attached to this document for illustrative purposes.
10. Prior to or in connection with the proof of beneficial use statement to be submitted for municipal water use under this right, the right holder shall provide the department with documentation showing that the water supply system is being regulated by the Idaho Department of Environmental Quality as a public water supply and that it has been issued a public water supply number.

This amendment of permit is issued pursuant to the provisions of Section 42-211, Idaho Code. Witness the signature of the Director, affixed at Coeur d'Alene, this 10th day of March 2010.


GARY SPACKMAN, Interim Director

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STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
STATEMENT OF COMPLETION
FOR SUBMITTING PROOF OF BENEFICIAL USE

FOR OFFICE USE ONLY	
Amt. of Fee \$:	_____
Receipt No.:	_____
Receipt By:	_____
Date Received:	_____

The Idaho Department of Water Resources considers this form a statement by the permit holder(s) that development of a water right has been **completed** and that water has been applied to beneficial use to the extent described below. **This form must be accompanied by an examination fee, when necessary, or by a completed Beneficial Use Field Report prepared by a certified water right examiner.** Please refer to the instructions and fee schedule for this form. If ownership of the permit has changed, please contact any Department office or visit the Department's website at: www.idwr.idaho.gov for an *Assignment of Permit* form. If you wish to relinquish your permit because you have not established the authorized use of the water and are not applying for an extension, please notify the Department in writing.

1. Permit No. 95-9055 Telephone No. 208-665-2005
2. Name of Permit Holder(s): Black Rock Utilities, Inc.
3. Mailing Address: PO Box 3070 City Coeur d'Alene
State ID Zip 83816 Email: _____
4. Source of Water: Ground Water If **GROUND WATER** (well), Date Drilled: mo. _____ / yr. _____
Well Driller: see attachment for details Drilling Permit Number: _____
5. Extent of use(s) completed (as authorized by the water right permit):
Domestic (No. of households): _____ Stockwater (No. and type of stock): _____
Irrigation (No. of acres): _____ Other: Municipal
6. Total rate of diversion or storage volume for which proof is submitted: 1.0 cfs OR _____ acre-feet.
7. Compliance with a measuring device requirement, lockable controlling device requirement, and/or other conditions of permit: **Refer to the approval conditions on your permit and respond accordingly. The Department will not issue a license if permit conditions are not met.**

Measuring Device: Is a measuring device required?

If yes, has the measuring device been installed?

Yes ☐	No ☒
Yes ☐	No ☐

Lockable Controlling Device: Is a lockable device required to control the diversion?

If yes, has the lockable device been installed?

Yes ☐	No ☒
Yes ☐	No ☐

Other Conditions of Permit: Do the approval conditions on your permit require you to submit additional information in connection with your proof of beneficial use? If yes, list the conditions below and attach documents with the required information.

Public Water Supply verification and number Completed? Yes ☒ No ☐

8. Fee Enclosed: \$ n/a See fee schedule on back of the instructions for filing proof of beneficial use. Proofs filed without an appropriate fee, will be considered incomplete.

9. Person to contact to accompany the Department representative during field examination of the water system.

Name: _____ Telephone Number: _____

Mailing Address: _____ City _____

State _____ Zip _____ Email: _____

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The information given on this form is my true statement of the extent to which the above numbered permit has been developed and water has been diverted and applied to a beneficial use. I understand that any undeveloped portion of the permit is relinquished to the State of Idaho.

Signature of permit holder: [Signature]
(Include your title, if on behalf of company or organization)

Date: 7-15-11

ATTACHMENT B

WELL DRILLERS' REPORTS AND PUMP CURVES

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IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

Office Use Only		
Inspected by		
Twp	Rge	Sec
1/4	1/4	1/4
Lat	:	Long
:	:	:

WELL TAG NO. D0013804

RIG PERMIT N WELL #4

Other IDWR No

2. OWNER:

Name CAG Investments, LLC

Address George Schillinger / PO Box 977

City Wheat Ridge, State CO Zip 80034

3. LOCATION OF WELL by legal description:

N		Twp	48N	North	☒ or	South	☐
W		Rge	04W	East	☐ or	West	☒
E		Sec	16	1/4 NE 1/4 NW 1/4			
S				10 Ac	40 Ac	160 Ac	
		Gov't Lot	County Kootenai				
		Lat	Long				

Address of Well Site: (see next line)

Rockford Bay Road - Well #4

City

Lot Blk Sub. Name (see next line)

Black Rock

4. USE:

- ☐ Domestic ☒ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other

5. TYPE OF WORK check all that apply (Replacement etc.)

- ☒ New Well ☐ Modify ☐ Abandonment ☐ Other

6. METHOD

- ☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other

7. SEALING PROCEDURES

SEAL/FILTER PACK			Amount	Method
Material	From	To	Sacks/Lbs	
Bentonite	0	40	62 sacks	pour in

Drive Shoe Used? ☒ Y ☐ N Shoe Depth(s) 136

Drive Shoe Seal Tested? ☐ Y ☒ N How?

8. CASING/LINER

Diam	From	To	Gauge	Material	Casng	Liner	Weld	Thrded
10	1	136	0.365	Steel	☒	☐	☒	☐
8	2	238	0.322	Steel	☒	☐	☒	☐
					☐	☐	☐	☐

Length Headpipe Length Tailpipe

9. PERFORATIONS/SCREENS

☐ Perforations? Method

☐ Screens? Screen Type

From	To	Slot	Nmbr	Diam	Material	Casng	Liner
						☐	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL or ARTESIAN PRESSURE

110 ft. below ground. Artesian pressure lb.

Depth flow encountered 232 ft. Describe access port or

control devices: Steel cap welded

11. WELL TESTS:

- ☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pump Level	Time
125	100%	299	1 hr

Water Temp. cold Bottom hole temp. cold

Water Quality test or comments: (below) Depth first Water Encountered 230

clear, cold, no smell

12. LITHOLOGIC LOG (Describe repairs or abandonment)

Bore Diam	From	To	Remarks: Lithology, Water Quality and Temperature	Water	
				Y	N
14	0	2	Basalt cobbles & clay		☒
14	2	15	Clay - brown		☒
14	15	18	Basalt & clay - brown - soft		☒
14	18	25	Clay - light brown		☒
14	25	35	Sand - brown		☒
14	35	42	Clay - brown		☒
14	42	60	Clay - green/gray		☒
14	60	90	Clay - brown		☒
10	90	100	Clay - dark brown/tan		☒
10	100	136	Sand & Clay - med. Brown		☒
10	136	180	Basalt - black - hard		☒
10	180	200	Basalt - black - broken		☒
10	200	210	Basalt - black - hard		☒
10	210	220	Basalt - black - broken		☒
10	220	230	Basalt - black - hard		☒
10	230	240	Basalt - black - broken		☒
			water @ 232'		
8	240	250	Basalt - black - broken		☒
8	250	300	Basalt - black - medium		☒

Completed Depth 300 (Measurable)

Date: Started 9/18/00 Completed 9/26/00

13. DRILLERS CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Firm Name United Drilling Inc. Firm No 414

Firm Official and Date 9/27/00

Supervisor or Operator Jason C. Beckham

SCANNED
Date 9/27/00

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

Office Use Only			
Inspected by _____			
Twp _____	Rge _____	Sec _____	
1/4	1/4	1/4	
Lat : : _____	Long: : : _____		

L TAG NO. D0017027

Sealing Permit N WELL #8
Other IDWR No _____

2. OWNER:

Name **CAG Investments, LLC**

Address **George Schillinger / PO Box 977**

City **Wheat Ridge,** State **CO** Zip **80034**

3. LOCATION OF WELL by legal description:

N		Twp	48N	North	☒ or	South	☐
Rge		04W	East	☐ or	West	☒	
Sec		16	1/4	SW 1/4	NW 1/4		
Gov't Lot		County Kootenai					
Lat		Long					

Address of Well Site: (see next line)

ROCKFORD BAY RD WELL #8

City **Coeur d' Alene**

Lot _____ Blk _____ Sub. Name (see next line)

4. USE:

- ☐ Domestic ☒ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other

5. TYPE OF WORK check all that apply (Replacement etc.)

☐ New Well ☐ Modify ☐ Abandonment ☐ Other

6. DRILL METHOD

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other

7. SEALING PROCEDURES

SEAL/FILTER PACK			Amount	Method
Material	From	To	Sacks/Lbs	
Bentonite	0	40	21 sacks	pour in

Drive Shoe Used? ☐ Y ☒ N Shoe Depth(s) _____

Drive Shoe Seal Tested? ☐ Y ☒ N How? _____

8. CASING/LINER

Diam	From	To	Gauge	Material	Casing	Liner	Weld	Thrded
10	2	138	0.365	Steel	☒	☐	☒	☐
8	2	281	0.322	Steel	☒	☐	☒	☐
					☐	☐	☐	☐

Length Headpipe _____ Length Tailpipe _____

9. PERFORATIONS/SCREENS

☒ Perforations? Method torch

☐ Screens? Screen Type _____

From	To	Slot	Nmbr	Diam	Material	Casing	Liner
261	292	1/4"	100		Steel	☒	☐
		x 12				☐	☐
						☐	☐

10. STATIC WATER LEVEL or ARTESIAN PRESSURE

110 ft. below ground. Artesian pressure _____ lb.

Depth flow encountered _____ ft. Describe access port or

control devices: **Steel cap welded**

11. WELL TESTS:

☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pump Level	Time
150	100%	280	9 hrs

Water Temp. _____ cold Bottom hole temp. _____ cold

Water Quality test or comments: (below) Depth first Water Encountered **150**
clear, no smell

12. LITHOLOGIC LOG (Describe repairs or abandonment)

Bore Diam	From	To	Remarks: Lithology, Water Quality and Temperature	Water	
				Y	N
14	0	18	Clay - brown	☐	☒
14	18	34	Clay with gravel	☐	☒
14	34	41	Basalt & clay - broken	☐	☒
14	41	82	Clay - tan & brown	☐	☒
14	82	97	Basalt & clay - broken	☐	☒
14	97	128	Clay - gray	☐	☒
14	128	132	Basalt - broken	☐	☒
14	132	138	Basalt - black - hard	☐	☒
10	138	150	Basalt - black - hard	☐	☒
10	150	151	Basalt - black - soft - (10 GPM)	☒	☐
10	151	275	Basalt - black - hard	☐	☒
10	275	285	Basalt - black - soft	☐	☒
10	285	292	Sand & broken basalt & clay	☒	☐
10	292	295	Clay - white & tan	☐	☒
10	295	300	Clay - brown - hard	☐	☒
			Set 8" to 281' then gravel packed well		
			to 292' with 1.5" round gravel		
			8" to 10" packer set at 160' to not use		
			10 GPM @ 150'		

Completed Depth **286** (Measurable)

Date: Started **1/1/01** Completed **1/16/01**

13. DRILLERS CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Firm **United Drilling Inc.**

Firm No **414**

Name _____

Firm Official _____

and _____

Supervisor or Operator **Jason C. Beckham**

Date **1/16/01**

Date **1/16/01**

FORWARD WHITE COPY TO WATER RESOURCES

MAR 22 2012

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

Office Use Only			
Inspected by _____			
Twp _____	Rge _____	Sec _____	
_____ 1/4	_____ 1/4	_____ 1/4	
Lat : : _____	Long: : : _____		

WELL TAG NO. **D0013803**

WELL PERMIT N **WELL #9**

Other IDWR No _____

2. OWNER:

Name **CAG Investments, LLC**

Address **George Schillinger / PO Box 977**

City **Wheat Ridge,** State **CO** Zip **80034**

3. LOCATION OF WELL by legal description:

N		Twp 48N	North ☒ or South ☐
Rge 04W		East ☐ or West ☒	
Sec 16		1/4 SW 1/4 NW 1/4	
Gov't Lot _____		County Kootenai	
Lat _____		Long _____	

Address of Well Site: (see next line)

Rockford Bay Rd 1.6 on left

City _____

Lot _____ Blk _____ Sub. Name (see next line)

Well #9

4. USE:

- ☒ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other

5. TYPE OF WORK check all that apply (Replacement etc.)

- ☒ New Well ☐ Modify ☐ Abandonment ☐ Other

6. METHOD

- ☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other

7. SEALING PROCEDURES

SEAL/FILTER PACK			Amount	Method
Material	From	To	Sacks/Lbs	
Bentonite	0	40	22 sacks	pour in

Drive Shoe Used? ☒ Y ☐ N Shoe Depth(s) **108**

Drive Shoe Seal Tested? ☐ Y ☒ N How? _____

8. CASING/LINER

Diam	From	To	Gauge	Material	Casng	Liner	Weld	Thrded
10	2	110	0.365	Steel	☒	☐	☒	☐
8	1	182	0.322	Steel	☒	☐	☒	☐
6	1	223	0.280	Steel	☒	☐	☒	☐

Length Headpipe _____ Length Tailpipe _____

9. PERFORATIONS/SCREENS

- ☐ Perforations? Method _____
☐ Screens? Screen Type _____

From	To	Slot	Nmbr	Diam	Material	Casng	Liner
						☐	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL or ARTESIAN PRESSURE

122 ft. below ground. Artesian pressure _____ lb.
Depth flow encountered **204** ft. Describe access port or control devices: **Steel cap welded**

11. WELL TESTS:

- ☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pump Level	Time
80-120	100%	265	8 hrs.

Water Temp. _____ cold Bottom hole temp. _____ cold

Water Quality test or comments: (below) Depth first Water Encountered **204**

12. LITHOLOGIC LOG (Describe repairs or abandonment)

Bore Diam	From	To	Lithology, Water Quality and Temperature	Water
14	0	14	Clay with basalt gravels	☐ Y ☒ N
14	14	22	Clay - gray	☐ Y ☒ N
14	22	35	Basalt - broken - black	☐ Y ☒ N
14	35	45	Clay - brown	☐ Y ☒ N
14	45	62	Sand - brown - coarse	☐ Y ☒ N
14	62	70	Clay - gray	☐ Y ☒ N
14	70	110	Clay - brown	☐ Y ☒ N
10	110	114	Basalt & clay mix - soft	☐ Y ☒ N
10	114	150	Basalt - black - medium to hard	☐ Y ☒ N
10	150	180	Basalt-black with clay mix-very broken	☐ Y ☒ N
8	180	204	Basalt - black - medium	☐ Y ☒ N
8	204	210	Basalt - black - broken w/clay	☒ Y ☐ N
			water turbid - (cased off)	☐ Y ☐ N
8	210	223	Basalt - black - medium - broken	☐ Y ☒ N
6	223	232	Basalt - black - medium	☐ Y ☒ N
6	232	236	Basalt - black-fractured - (80-120 GPM)	☒ Y ☐ N
			water less turbid than upper formation	☐ Y ☐ N
6	236	267	Basalt - black - med	☐ Y ☒ N
6	267	271	Clay - brown	☐ Y ☒ N
			broke out of basalt into clay layer & stopped drilling.	☐ Y ☐ N

Completed Depth **267** (Measurable)
Date: Started **12/11/00** Completed **12/26/00**

13. DRILLERS CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Firm Name **United Drilling Inc.** Firm No **414**
Firm Official *Jason C. Beckham* Date **1/3/01**
Supervisor or Operator **Jason C. Beckham**

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360

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

Office Use Only			
Inspected by _____			
Twp _____	Rge _____	Sec _____	
_____ 1/4	_____ 1/4	_____ 1/4	
Lat : : _____		Long: : : _____	

WELL TAG NO. D0017168

DRILLING PERMIT N

WELL #9 MODIFICATIONS

Other IDWR No _____

2. OWNER:

Name CAG Investments, LLC

Address George Schillinger / PO Box 977

City Wheat Ridge,

State CO

Zip 80034

3. LOCATION OF WELL by legal description:

N		Twp <u>48N</u>	North ☒ or South ☐
E		Rge <u>04W</u>	East ☐ or West ☒
S		Sec <u>16</u>	1/4 SW 1/4 NW 1/4
		10 Ac	40 Ac 160 Ac
		Gov't Lot _____	County <u>Kootenai</u>
		Lat _____	Long _____

Address of Well Site: (see next line)
City _____

Lot _____

Blk _____

Sub. Name (see next line) _____

4. USE:

- ☐ Domestic ☒ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other _____

5. TYPE OF WORK check all that apply (Replacement etc.)

- ☐ New Well ☒ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD

- ☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK			Amount	Method
Material	From	To	Sacks/Lbs	

Drive Shoe Used? ☐ Y ☒ N Shoe Depth(s) _____

Drive Shoe Seal Tested? ☐ Y ☒ N How? _____

8. CASING/LINER

Diam	From	To	Gauge	Material	Casng	Liner	Weld	Thrded
6	1	280	0.280	Steel	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length Headpipe _____

Length Tailpipe _____

9. PERFORATIONS/SCREENS

☐ Perforations? Method _____

☐ Screens? Screen Type _____

From	To	Slot	Nmbr	Diam	Material	Casng	Liner
						☐	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL or ARTESIAN PRESSURE

116 ft. below ground. Artesian pressure _____ lb.

Depth flow encountered 278 ft. Describe access port or

control devices: Bolt on cap

11. WELL TESTS:

- ☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pump Level	Time
100+	100%	318	2 hrs

Water Temp. _____ cold Bottom hole temp. _____ cold

Water Quality test or comments: (below) Depth first Water Encountered 232
clear, cold, no smell

12. LITHOLOGIC LOG (Describe repairs or abandonment)

Bore Diam	From	To	Lithology, Water Quality and Temperature	Water
8	223	232	Basalt - black - medium	☐ Y ☒ N
8	232	236	Basalt - black - fractured	☒ Y ☐ N
			80-120 GPM	☐ Y ☐ N
8	236	267	Basalt - black - medium	☐ Y ☒ N
8	267	273	Clay - brown	☐ Y ☒ N
6	273	275	Clay - brown	☐ Y ☒ N
6	275	285	Compacted sandstone	☒ Y ☐ N
6	285	299	Clay - brown/beige	☐ Y ☒ N
6	299	310	Clay - brown - hard pan	☐ Y ☒ N
6	310	320	Granite with quartz and mica - soft	☐ Y ☒ N
			brown & white	☐ Y ☐ N
			Due to turbid water @ 233, we pulled	☐ Y ☐ N
			out the 6" casing and overbored 8" to	☐ Y ☐ N
			273' then drove pipe into clay to shut	☐ Y ☐ N
			off upper water.	☐ Y ☐ N

Completed Depth 316 (Measurable)

Date: Started 4/30/01 Completed 5/1/01

13. DRILLERS CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Firm United Drilling Inc.

Firm No 414

Name _____

Firm Official and _____

Date 5/2/01

Supervisor or Operator Jason C. Beckham

Date 5/2/01

MODEL 150S

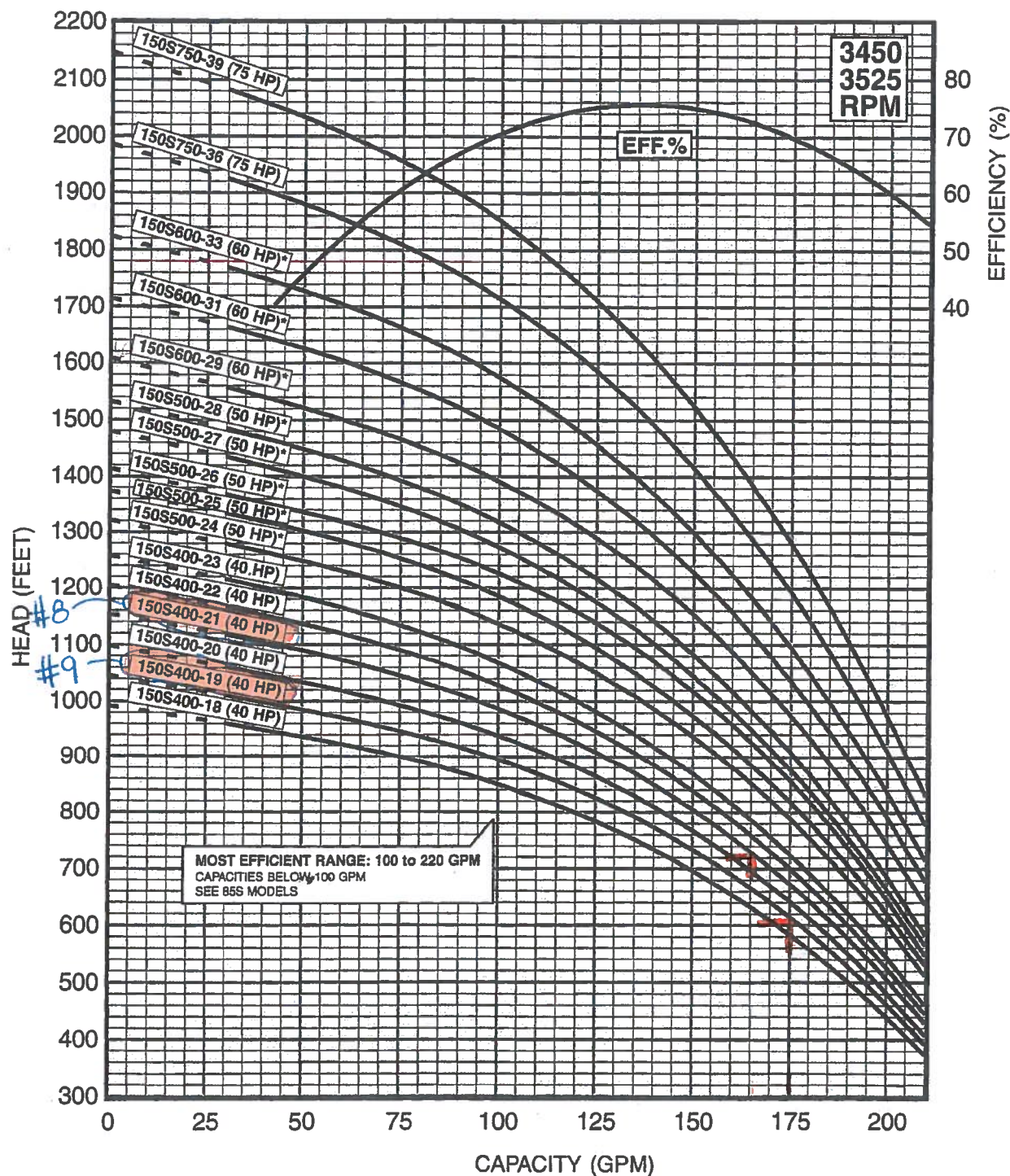
150 GPM

PERFORMANCE CURVES

FLOW RANGE: 30 -220 GPM

OUTLET SIZE: 3" NPT

NOMINAL DIA. 6"



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

6" MOTOR STANDARD, 7.5-60 HP/3450 RPM.

8" MOTOR STANDARD, 75 HP/3525 RPM.

* Alternate motor sizes available.

Performance conforms to ISO 9906 Annex A

@ 5 ft. min. submergence.

#8: 150S400-21 (40HP)

#9: 150S400-19 (40HP)

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GRUNDFOS

PERFORMANCE CURVES

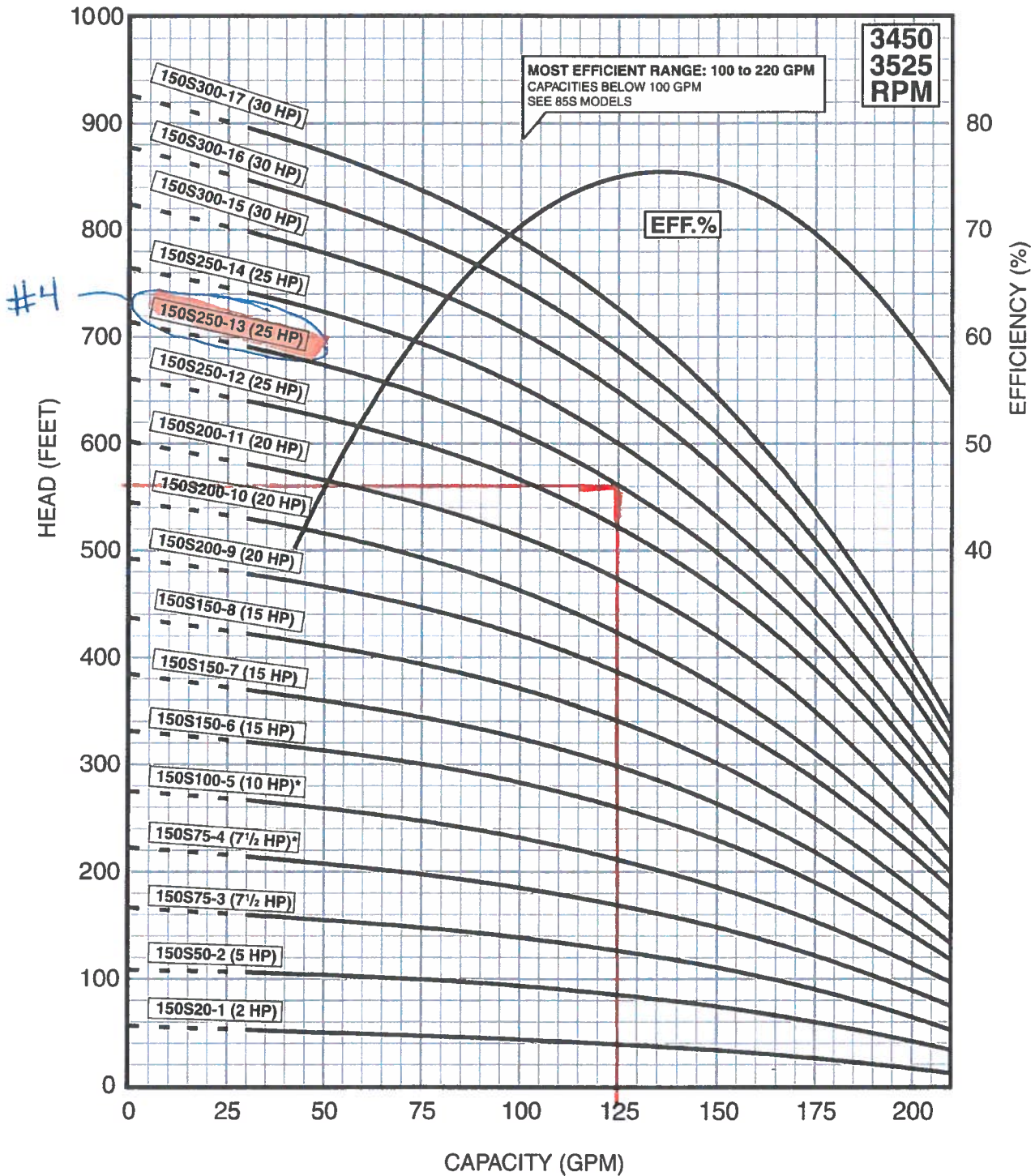
150 GPM

MODEL 150S

FLOW RANGE: 30 -220 GPM

OUTLET SIZE: 3" NPT

NOMINAL DIA. 6"



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

4" MOTOR STANDARD, 2-10 HP/3450 RPM
6" MOTOR STANDARD, 7.5-60 HP/3450 RPM.
8" MOTOR STANDARD, 75 HP/3525 RPM.
* Alternate motor sizes available.

Performance conforms to ISO 9906 Annex A
@ 5 ft. min. submergence

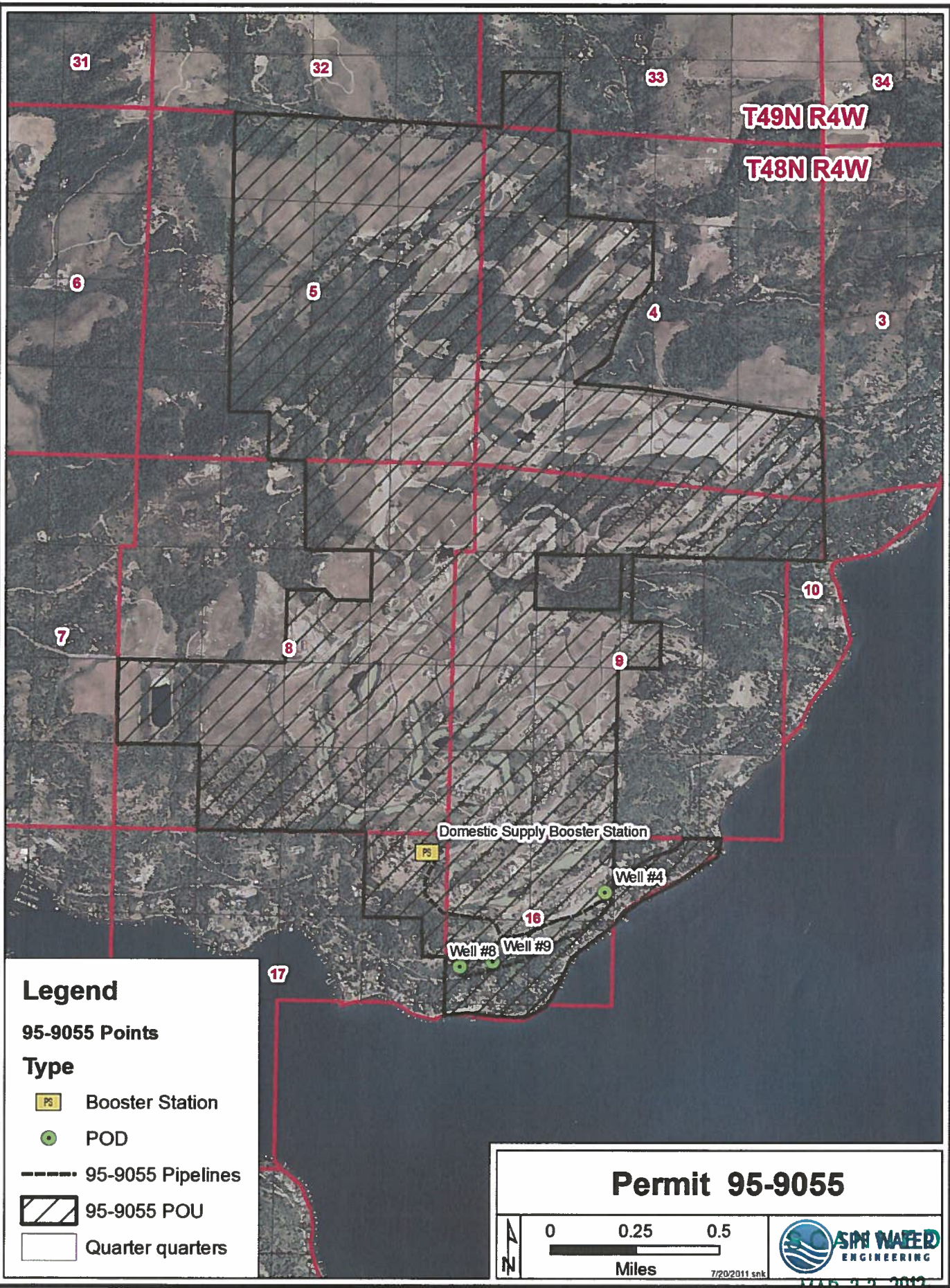
WELL #4: 150S250-13 (25 HP)

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ATTACHMENT C
TOPO MAP AND 2009 AERIAL PHOTO

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Legend

95-9055 Points

Type



Booster Station



POD

----- 95-9055 Pipelines



95-9055 POU



Quarter quarters

Permit 95-9055



0 0.25 0.5



Miles

7/20/2011 snk



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ATTACHMENT D
PHOTOS

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Photo 1: Well #4 (D0013804).



Photo 2: Well #4 main power panel.

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95-9055 Beneficial Use Field Exam Photographs



Photo 3: Well #8 (D0017027).



Photo 4: Well #8 main power panel.

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95-9055 Beneficial Use Field Exam Photographs



Photo 5: Well #9 (D0013803 & D0017168).



Photo 6: Well #9 main power panel.



Photo 7: Municipal potable water system booster station.



Photo 8: Municipal potable water booster station pumps, pressure tanks, controls, and mechanical piping.

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Photo 9: Well #4 flowmeter display (111 gpm).



Photo 10: Well #8 flowmeter.



Photo 11: Well #8 flowmeter display (165 gpm).



Photo 12: Well #9 flowmeter.

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Photo 13: Well #9 flowmeter display (175 gpm).



Photo 14: Place of use includes residential units and other facilities associated with The Golf Club at Black Rock and Black Rock North developments.

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ATTACHMENT E
PLACE OF USE TABLE

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RightID631695

Place(s) of use:

Place of Use Legal Description: MUNICIPAL KOOTENAI County

Township	Range	Section	Lot	Tract	Acres	Lot	Tract	Acres	Lot	Tract	Acres	Lot	Tract	Acres
48N	04W	4	4	NWNW			SWNW			SENE				
				NESW			NWSW			SWSW			SESW	
				NWSE			SWSE			SESE				
		5	1	NENE		2	NWNE			SWNE			SENE	
			3	NENW			SENE							
				NESW			SESW							
				NESE			NWSE			SWSE			SESE	
		8	1	NENE		2	NWNE		7	SWNE		8	SENE	
				NESW			NWSW			SESW				
				NESE			NWSE			SWSE			SESE	
		9	1	NENE		2	NWNE		7	SWNE		~~8~~	~~SENE~~	
			3	NENW		4	NWNW		5	SWNW		6	SENE	
				NESW			NWSW			SWSW			SESW	
		~~10~~	~~1~~	~~NENW~~										
		16	1	NENE										
				NENW			NWNW		2	SWNW		3	SENE	
			3	NESW		2	NWSW							
		17		NENE		4	SENE							
49N		33	4	SWSW										

FOUND place of use table.

T48N 04W Section 9 SENE(48)
and

Section 10 NENW(41)
are NOT included in the POU

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