

B3

Form 238-7
6/07

Pg 1 of 3

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT
AMENDED

896228-841797

1. WELL TAG NO. D 0047215

Drilling Permit No. 896228-841797

Water right or injection well # 63-32573

2. OWNER

Name M3 Eagle, LLC Test Well #1

Address 533 E. Riverside Drive, Suite, 110

City Eagle State ID Zip 83616

3. WELL LOCATION:

Twp. 5 North ☒ or South ☐ Rge. 1 East ☐ or West ☒Sec. 28 SW 1/4 SE 1/4 SE 1/4
10 acres 40 acres 160 acres

Gov't Lot County Ada

Lat. 43° 44' 12.39" (Deg. and Decimal minutes)

Long. 116° 27' 26.86" (Deg. and Decimal minutes)

Address of Well Site Big Gulch Rd., Approx. 2000 ft. NE of State Highway 16 City Eagle

Below is name of road + distance to West of Landmark

Lot. Blk. Sub. Name

4. USE:

☐ Domestic ☐ Municipal ☒ Monitor ☐ Irrigation ☐ Thermal ☐ Injection
☒ Other Piezometer Nest

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

☒ New Well ☐ Replacement well ☐ Modify existing well
☐ Abandonment ☐ Other

6. DRILL METHOD:

☐ Air Rotary ☒ Mud Rotary ☐ Cable ☐ Other Direct Mud Rotary

7. SEALING PROCEDURES

Seal material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method/procedure
30% Grout	800'	580'	2.0 Yds.	Pumped
30% Grout	428'	444'	0.2 Yds.	Pumped

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing	Liner	Threaded	Welded
8"	+1'	13'	.250	Steel	☒	☐	☐	☒
2"	+3'	514'	Sch80	PVC	☒	☐	☒	☐
2"	+3'	467'	Sch80	PVC	☒	☐	☒	☐

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

9. PERFORATIONS/SCREENS:

Perforations ☐ Y ☒ N MethodManufactured screen ☒ Y ☐ N Type Sch 80 PVC Slotted

Method of installation Lowered & Tagged into place

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
514'	556'	.020	Zone1	2"	PVC	Sch80
467'	507'	.020	Zone2	2"	PVC	Sch80
395'	425'	.020	Zone3	2"	PVC	Sch80

Length of Headpipe 0 Length of Tailpipe 0

Packer ☐ Y ☒ N Type N/A

10. FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method
#8-#16 Sand	444'	580'	1.6 Yds	Poured
#8-#16 Sand	305'	428'	0.9 Yds	Poured

11. FLOWING ARTESIAN:

Flowing Artesian? ☐ Y ☒ N Artesian Pressure (PSIG) See Table on Pg3

Describe control device

12. STATIC WATER LEVEL and WELL TESTS:

Depth first water encountered (ft) 91' bgl Static water level (ft) 91

Water temp. (°F) See Table Bottom hole temp. (°F) 74.97° F

Describe access port 5 - 2" Tube Wells inside a locked well head

Well test:

Test method:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)	Pump	Bailer	Air	Flowing artesian
NO	PUMP TEST	OTHER	☒	☒	☒	☐
THAN	AIR	LIFTING				
AND	PUMP	SAMPLES				

Water Quality test or comments: See Table Pg. 2

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
15	0	1	Top Soil		X
15	1	3	Caliche		X
15	3	9	Brown Clay		X
8	9	13	Brown Clay		X
8	13	21	Brown Sand		X
8	21	24	Tan Clay		X
8	24	26	Brown Coarse Sand		X
8	26	108	Med. Sands&Tacky Tan -Brwn Clays	X	
8	108	111	Med. Slightly Cemented Sand	X	
8	111	138	Med Sands & Tacky Tan -Brown Clays	X	
8	138	269	Tacky Brown to Dk Greenish Gray Clay	X	
8	269	288	Bluish-Gray Clay Lenses	X	
8	288	355	Sandy Tacky Greenish- Bluish-Gray Clays	X	
8	355	363	Medium Brown Sand	X	
8	363	366	Sandy Tan Clay	X	
8	366	382	Fine Tan Sand w/ Minor Tan Clay Lenses	X	
8	382	388	Sandy Greenish-Gray Clay	X	
8	388	393	Fine Tan Sand	X	
8	393	398	Sticky Greenish-Gray Clay	X	
8	398	403	Medium - Fine Brown Sand	X	
8	403	406	Tacky Tan Clay	X	
8	406	410	Medium - Fine Brown Sand	X	
8	410	417	Sandy Tacky Tan Clay	X	
8	417	426	Medium - Coarse Tan Sand	X	
8	426	435	Tan Med Sand & Tacky Tan Clay	X	
8	435	442	Medium Tan Sand	X	
8	442	447	Sandy Tan Clay	X	
8	447	449	Fine - Medium Tan Sand	X	
8	449	453	Sandy Tan Clay	X	
8	453	471	Fine - Medium Tan Sand	X	
8	471	481	Coarse Tan Sand	X	
8	481	484	Sandy Tan Clay	X	

Completed Depth (Measurable) 800'

Date: Started 9/5/2006

Completed 9/15/2006

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 Treasure Valley Drilling Co. No. 560

*Principal Driller Date 9/18/2006

*Driller Date 9/18/2006

*Operator II Date

Operator I Date

* Signature of Principal Driller and rig operator are required.

Form provided by Forms On-A-Disk - (214) 340-9429 - www.FormsOnADisk.com



IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

1. WELL TAG NO. D 0047215 Pg2Drilling Permit No. **896228-841797**Water right or injection well # **63-32573****2. OWNER**Name **M3 Eagle, LLC Test Well #1**Address **533 E. Riverside Drive, Suite 110**City **Eagle** State **ID** Zip **83616****3. WELL LOCATION:**Twp. **5** North ☒ or South ☐ Rge. **1** East ☐ or West ☒Sec. **28** SW 1/4 SE 1/4 SE 1/4Gov't Lot _____ County **Ada**Lat. **43° 44' 12.39"** (Deg. and Decimal minutes)Long. **116° 27' 26.86"** (Deg. and Decimal minutes)Address of Well Site **Big Gulch Rd., Approx. 2000 ft. NE of State****Highway 16** City **Eagle**

(City or town name of road - Distance to Road or Landmark)

Lot. _____ Blk. _____ Sub. Name _____

4. USE:☐ Domestic ☐ Municipal ☒ Monitor ☐ Irrigation ☐ Thermal ☐ Injection☒ Other **Piezometer Nest****5. TYPE OF WORK** check all that apply (Replacement etc.)☒ 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
30% Grout	144'	305'	1.0 Yds.	Pumped Bentonite
30% Grout	0	67'	0.4 Yds.	Pumped Bentonite

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing	Liner	Threaded	Welded
2"	+3'	395'	Sch80	PVC	☒	☐	☒	☐
2"	+3'	353'	Sch80	PVC	☒	☐	☒	☐
2"	+3'	97'	Sch80	PVC	☒	☐	☒	☐

Was drive shoe used? ☐ Y ☒ N Shoe Depth(s) **N/A****9. PERFORATIONS/SCREENS:**Perforations ☐ Y ☒ N MethodManufactured screen ☒ Y ☐ N Type **Sch 80 PVC Slotted**Method of installation **Lowered & Tagged into place**

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
353'	383'	.020	Zone4	2"	PVC	Sch 80
97'	137'	.020	Zone5	2"	PVC	Sch 80

Length of Headpipe **0** Length of Tailpipe **0**Packer ☐ Y ☒ N Type **N/A****10. FILTER PACK:**

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method
#8-#16 Sand	67'	144'	0.4 Yds	Poured

11. FLOWING ARTESIAN:Flowing Artesian? ☐ Y ☒ N Artesian Pressure (PSIG) **See Table on Pg3**

Describe control device _____

12. STATIC WATER LEVEL and WELL TESTS:Depth first water encountered (ft) **91 bgl** Static water level (ft) **91**Water temp. (°F) **See Table** Bottom hole temp. (°F) **74.97°F**Describe access port **5 - 2" Tube Wells inside a locked well head****Well test:****Test method:**

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)	Pump	Bailer	Air	Flowing artesian
NO	PUMP TEST	OTHER	☒	☒	☒	☐
THAN	AIR	LIFTING				
AND	PUMP	SAMPLES				

Water Quality test or comments: **See Table Pg. 2****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
8	484	489	Coarse Tan Sand	X
8	489	496	Med. Tan Sand w/ Minor Clay Lenses	X
8	496	541	Fine - Medium Greenish-Gray Sand w/ Minor Clay Lenses	X
8	541	543	Sandy Greenish-Gray Sticky Clay	X
8	543	561	Lt. Gray Medium Sand	X
8	561	564	Sandy Greenish-Gray Clay	X
8	564	578	Gray Medium Sand	X
8	578	599	Sandy Very Dark Gray Sticky Clay	X
8	599	702	Very Dark Gray Sticky Clay	X
8	702	709	Clayey Greenish-Gray Fine Sand	X
8	709	717	Fine Greenish-Gray Sand	X
8	717	724	Sandy Greenish-Gray Clay	X
8	724	739	Med. Greenish-Gray sand with One Minor Clay Lens	X
8	739	800	Fine Sandy Greenish-Gray Sticky Clay	X

ARTESIAN PRESSURES:			
Z-1	352'	152'	psi
Z-2	352'	152'	psi
Z-3	209'	91'	psi
Z-4	209'	91'	psi
Z-5	0	0	Water Table Unconfined

CHEMISTRY:			
Z-1	ph	7.2	D.O. = 1.7 Cond. = 305µS
Z-2	ph	7.2	D.O. = 2.6 Cond. = 295µS
Z-3	ph	7.3	D.O. = 4.9 Cond. = 274µS
Z-4	ph	7.1	D.O. = 2.6 Cond. = 258µS
Z-5	ph	6.7	D.O. = 9.5 Cond. = 265µS

Completed Depth (Measurable) **800'**Date: Started **9/5/2006** Completed **9/15/2006****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 **Treasure Valley Drilling** Co. No. **560***Principal Driller _____ Date **9/18/2006***Driller _____ Date **9/18/2006**

*Operator II _____ Date _____

Operator I _____ Date _____

*Signature of Principal Driller and rig operator are required.

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IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

1. WELL TAG NO. D 0047215 Pg 3Drilling Permit No. 896228-841797Water right or injection well # 63-32573**2. OWNER**Name M3 Eagle, LLC Test Well #1Address 533 E. Riverside Drive, Suite 110City Eagle State ID Zip 83616**3. WELL LOCATION:**Twp. 5 North ☒ or South ☐ Rge. 1 East ☐ or West ☒Sec. 28 SW 1/4 SE 1/4 SE 1/4
10 acres 40 acres 160 acresGov't Lot _____ County AdaLat. 43° 44' 12.39" (Deg. and Decimal minutes)Long. 116° 27' 26.86" (Deg. and Decimal minutes)Address of Well Site Big Gulch Rd., Approx. 2000 ft. NE of StateHighway 16 City Eagle

(One of several forms of record - Check one for Record or Lienmark)

Lot _____ Blk. _____ Sub. Name _____

4. USE:☐ Domestic ☐ Municipal ☒ Monitor ☐ Irrigation ☐ Thermal ☐ Injection
☒ Other Piezometer Nest**5. TYPE OF WORK** check all that apply (Replacement etc.)☒ New Well ☐ Replacement well ☐ Modify existing well
☐ Abandonment ☐ Other _____**6. DRILL METHOD:**☐ Air Rotary ☒ Mud Rotary ☐ Cable ☐ Other Direct Mud Rotary**7. SEALING PROCEDURES**

Seal material	From (ft)	To (ft)	Quantity (lbs or ft³)	Placement method/procedure
3/4" Bentonite Chips	0	13'	10 Bags	Poured

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing	Liner	Threaded	Welded
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Was drive shoe used? ☐ Y ☐ N Shoe Depth(s) _____**9. PERFORATIONS/SCREENS:**Perforations ☐ Y ☐ N Method _____Manufactured screen ☐ Y ☐ N Type _____

Method of installation _____

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

Length of Headpipe _____ Length of Tailpipe _____

Packer ☐ Y ☐ N Type _____**10. FILTER PACK:**

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft³)	Placement method

11. FLOWING ARTESIAN:Flowing Artesian? ☐ Y ☒ N Artesian Pressure (PSIG) See Table on Pg3

Describe control device _____

12. STATIC WATER LEVEL and WELL TESTS:Depth first water encountered (ft) 91 bgl Static water level (ft) 91Water temp. (°F) See Table Bottom hole temp. (°F) 74.97°FDescribe access port 5 - 2" Tube Wells insided locked well head**Well test:****Test method:**

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)	Pump	Bailer	Air	Flowing artesian
<u>NO</u>	<u>PUMP TEST</u>	<u>OTHER</u>	☒	☒	☒	☐
<u>THAN</u>	<u>AIR</u>	<u>LIFTING</u>				
<u>AND</u>	<u>PUMP</u>	<u>SAMPLES</u>				

Water Quality test or comments: See Table**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
			WELL DEVELOPMENT:	
			Cable Tool Swabbed and Air-Lifted Until Clear	
8	800	580	All Grouts are >30% Solids CETCO	
8	444	428	Bentonite by weight pumped under pressure from bottom up	
8	305	144		
8	67	0		
			GRADED FILTER SAND PLACEMENTS	
Z-1	580	444		
Z-2	580	494	All Sand Filters "Bird Seed" #8-#16	
Z-3	428	305	Graded Sand poured from surface &	
Z-4	428	305	tagged into place	
Z-5	144	67		
			WATER LEVEL & TEMPERATURE	
Z-1	556	514	SWL = 92.13, 67.1 F	
Z-2	507	467	SWL = 92.17, 66.0 F	
Z-3	425	395	SWL = 94.86, 64.7 F	
Z-4	383	353	SWL = 95.47, 63.8 F	
Z-5	137	97	SWL = 93.03, 57.4 F	

RECEIVED

MAY 22 2008

WATER RESOURCES
WESTERN REGIONWell Design By:
Hydro Logic, Inc.Completed Depth (Measurable) 800'
Date: Started 9/5/2006 Completed 9/15/2006**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 Treasure Valley Drilling Co. No. 560*Principal Driller _____ Date 9/18/2006*Driller _____ Date 9/18/2006

*Operator II _____ Date _____

Operator I _____ Date _____

*Signature of Principal Driller and rig operator are required.

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

842032

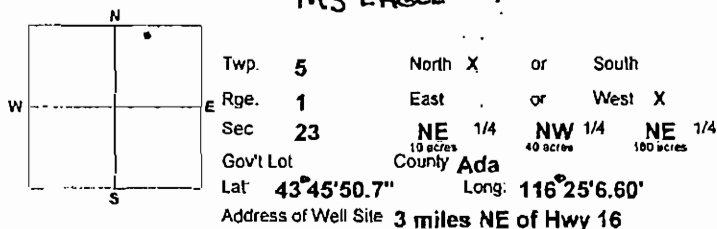
Office Use Only

Inspected by
Twp Rge Sec
1/4 1/4 1/4
Lat: Long:

1. WELL TAG NO. D 0047294
DRILLING PERMIT NO. 896384-842032
Other IDWR No.

2. OWNER:
Name M3 Eagle, LLC
Address 533 E. Riverside Drive, Suite 110
City Eagle State ID Zip 83616

3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location.
M3 EAGLE - TEST WELL #2



along Big Gulch Rd.
(Give at least name of road + Distance to Road or Landmark)
City Eagle
Blk. Sub. Name M3 Eagle

4. USE:
Domestic Municipal X Monitor Irrigation
Thermal Injection X Other Piezometer Nest

5. TYPE OF WORK: check all that apply (Replacement etc.)
X New Well Modify Abandonment Other

6. DRILL METHOD:
Air Rotary Cable X Mud Rotary Other

7. SEALING PROCEDURES: **CETCO BENTONITE GROUT**

Seal/Filter Pack	AMOUNT	METHOD
Material From To Sacks or Pounds		
30% Solids 800' 334'	1120 gal	Pumped-Tremie
6-12 Sand 334' 259'	3/4 yd.	Poured-Tremie
30% Solids 259' 250'	17 gals.	Pumped-Tremie

Was drive shoe used? Y X N Shoe Depth(s) N/A
Was drive shoe seal tested? Y X N How? N/A

8. CASING/LINER: **SCREW-TOGETHER FLUSH JOINT**

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
8"	+1'	9'	.250	Steel	X		X	
2"	+2'	270'		Sch80PVC	X			X
2"	+2'	230'		Sch80PVC	X			X

Length of Headpipe N/A Length of Tailpipe None

9. PERFORATIONS/SCREENS:
Perforations Method Factory Slotted
X Screens Screen Type Sch 80 PVC-Flush Joint

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
320'	270'	.020	Zone1	2"	PVC	X	
230'	250'	.020	Zone2	2"	PVC	X	
190'	180'	.020	Zone3	2"	PVC	X	

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:
214 ft. below ground Artesian pressure 1.0 psi lb.
Depth flow encountered 214 ft. Describe access port or control
devices: Three - 2" Diameter Piezometer Tube Wells.

11. WELL TESTS:

Pump	Bailer	Air	Flowing Artesian
Yield gal./min.	Drawdown	Pumping Level	Time
NOT	MEASURED		
WATER	QUALITY	TESTING	ONLY

Water Temp. 68.6 F Bottom hole temp. 79.4 F
Water Quality test or comments: Cond. = 322uS, pH = 7.23,
ORP = +94mV Depth first Water Encounter 214 ft bgl

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Water
15"	0	2'	Caliche	Y N
15"	2'	18'	Sandy Brown Clay	
8"	18'	22'	Sandy Tan Clay	
8"	22'	25'	Coarse Quartz & Brown Sand	
8"	25'	41'	Sticky Tan Clay	
8"	41'	47'	Sandy Tan Clay	
8"	47'	51'	Sticky Tan Clay	
8"	51'	53'	Sandy Tan Clay	
8"	53'		Sandy Red & Tan Clay w/	
		61'	Sand Seams	
8"	61'		Fine-Med Grained Brown &	
		71'	Quartz Sand	
8"	71'	73'	Sandy Dark Red Clay	
8"	73'	75'	Sandy Tan Clay	
8"	75'	78'	Fine-Med Grained Brown Sand	
8"	78'	82'	Sticky Tan Clay	
8"	82'	83'	Fine-Med Grained Brown Sand	
8"	83'	101'	Sticky Tan Clay	
8"	101'	106'	Sandy Tan Clay	
8"	106'	108'	Sticky Lt. Green Clay	
8"	108'	109'	Sticky Tan Clay	
8"	109'	110'	Fine Brown Sand	
8"	110'	113'	Sticky Tan Clay	
8"	113'	121'	Fine-Coarse Grained	
8"	121'	131'	Sandy Tan Clay	
8"	131'		Med.-Coarse Grained Brown	
		134'	Quartz Sand	
8"	134'	146'	Sandy Tan Clay	
8"	146'		Coarse-Med. Quartz & Brown	
		167'	Sand	
8"	167'		Coarse Quartz Sand w/Pea	
		176'	Gravel	
8"	176'	177'	Sandy Tan Clay	
8"	177'	179'	Coarse Grained Quartz Sand	
8"	179'	181'	Sandy Tan Clay	

Pg 1 of 3

Completed Depth 320' BGL = base of screen (Measurable)
Date: Started 9/11/2006 Completed 10/5/2006

13. DRILLER'S CERTIFICATION:

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

Company Name Treasure Valley Drilling Firm No 560

Firm Official Date 1/8/2007

and Driller or Operator Date 1/8/2007

(Sign once if Firm Official & Operator)

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: : :

1. WELL TAG NO. D 0047294 Pg3
DRILLING PERMIT NO. 896384-842032
Other IDWR No.

2. OWNER:

Name M3 Eagle, LLC
Address 533 E. Riverside Drive, Suite 110
City Eagle State ID Zip 83616

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

M3 EAGLE - TEST WELL #2

W Twp. 5 North X or South
Rge. 1 East or West X
Sec. 23 NE 1/4 NW 1/4 NE 1/4
Gov't Lot 10 acres 40 acres 160 acres
Lat: 43°45'50.7" Long: 116°25'6.60"
Address of Well Site 3 miles NE of Hwy 16
along Big Gulch Rd. City Eagle
(Give at least name of road + Distance to Road or Landmark)

LI. Blk. Sub. Name M3 Eagle

4. USE:

Domestic Municipal X Monitor Irrigation
Thermal Injection X Other Piezometer Nest

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

X New Well Modify Abandonment Other

6. DRILL METHOD:

Air Rotary Cable X Mud Rotary Other

7. SEALING PROCEDURES:

Seal/Filter Pack	AMOUNT	METHOD
Material From To Sacks or Pounds		
30% Solids 0 165' 245 gals Pumped from		
Grout		bottom up
Bentonite Cetco		thru tremie

Was drive shoe used? Y X N Shoe Depth(s) N/A

Was drive shoe seal tested? Y X N How? N/A

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded

Length of Headpipe N/A Length of Tailpipe None

9. PERFORATIONS/SCREENS:

Perforations Method
X Screens Screen Type Sch 80 PVC Slotted Pipe

From	To	Slot Size	Number	Diameter	Material	Casing	Liner

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

214 ft. below ground Artesian pressure 1.0 psi lb.
Depth flow encountered 214 ft. Describe access port or control
devices: Steel Cased Security Enclosure w/Lock

11. WELL TESTS:

Pump	Batter	Air	Flowing Artesian
Yield gal./min.	Drawdown	Pumping Level	Time
NOT	MEASURED		
WATER	QUALITY	TESTING	ONLY

Water Temp. 68.6 F Bottom hole temp. 79.4 F @ 80'
Water Quality test or comments: Cond. = 322uS, pH = 7.23,
ORP = +94mV Depth first Water Encounter 214 ft. bgl

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
8"	446'	452'	Sandy Blue Clay		
8"	452'	455'	Blue Silt		
8"	455'	478'	Sandy Blue Clay		
8"	478'	488'	Blue Silt		
8"	488'	491'	Sandy Blue Clay		
8"	491'	497'	Blue Silt		
8"	497'	499'	Sandy Blue Clay		
8"	499'	504'	Blue Silt		
8"	504'	516'	Sandy Blue Silt		
8"	516'	523'	Blue Silt		
8"	523'	539'	Sandy Blue Clay		
8"	539'	545'	Blue Silt		
8"	545'	559'	Sandy Blue Clay		
8"	559'	567'	Softer Sandy Blue Clay		
8"	567'	604'	Sandy Blue Clay		
8"	604'	627'	Sticky Blue Clay		
8"	627'	645'	Sandy Blue Clay		
8"	645'	647'	Blue Sandstone		
8"	647'	653'	Sandy Blue Clay		
8"	653'	657'	Blue Sandstone		
8"	657'	668'	Light Gray Clay		
8"	668'	731'	Sandy Blue Clay		
8"	731'	735'	Blue Sandstone		
8"	735'	737'	Sandy Blue Clay		
8"	737'	741'	Blue Sandstone		
8"	741'	747'	Sandy Blue Clay		
8"	747'	754'	Dark Blue Clay		
8"	754'	755'	Blue Sandstone		
8"	755'	766'	Dark Blue Clay		
8"	766'	769'	Blue Sandstone		
8"	769'	784'	Dark Blue Clay		
8"	784'	789'	Blue Sandstone		
8"	789'	800'	Dark Blue Clay		

Well design by Hydro Logic, Inc.
Well Elevation ~ 2,770 ft. AMSL

P 3 of 3

Completed Depth 334' bgl = Base of Sand Filter (Measurable)
Date: Started 9/11/2006 Completed 10/5/2006

13. DRILLER'S CERTIFICATION:

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

Company Name Treasure Valley Drilling

Firm No. 560

Firm Official

Date 1/8/2007

and

Driller or Operator

Date 1/8/2007

(Sign once if Firm Official & Operator)

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

843865
Office Use Only

Inspected by
Twp Rge Sec
1/4 1/4 1/4
Lat: Long:

1. WELL TAG NO. D 0047648

DRILLING PERMIT NO. 897492-843865

Other IDWR No.

2. OWNER:

Name M3 Eagle, L.L.C.

Address 533 E. Riverside Drive, Suite 110

City Eagle State ID Zip 83616

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

M3 EAGLE - TEST WELL #3

	Twp. 5	North	☒	or	South
	Rge. 1	East		or	West
	Sec. 15	SW 1/4		SW 1/4	SW 1/4
	Gov't Lot	County Ada			
Lat: 43°45'56.5"		Long: 116°27'43"			
Address of Well Site 8550 State Hwy 16,					

North of Eagle on W. Roseway Lane

City Eagle

4. USE:

☐ Domestic ☐ Municipal ☒ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☒ Other Piezometer Nest

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 or Pounds	
Bent Grout 920' 532'	1496 gal	Pumped
5/8" Gravel 532' 477'	.65 C.Y.	Poured
Cement Grout 477' 442'	43 gals.	Pumped

Was drive shoe used? Y ☒ N Shoe Depth(s) N/A

Was drive shoe seal tested? Y ☒ N How? N/A

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Linear	Welded	Threaded
8"	+2	80'	.250	Steel	☒		☒	
2"	+2	432'	Sch 80	PVC	☒			☒
2"	+2	399'	Sch 80	PVC	☒			☒

Length of Headpipe None Length of Tailpipe None

9. PERFORATIONS/SCREENS:

Perforations Method Lowered & Sand-Packed
X Screens Screen Type PVC Sch 80 Slotted

From	To	Slot Size	Number	Diameter	Material	Casing	Linear
430'	440'	.020	Zone 1	2"	PVC	☒	
390'	410'	.020	Zone 2	2"	PVC	☒	
370'	380'	.020	Zone 3	2"	PVC	☒	

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

262 ft. below ground Artesian pressure -22 lb.

Depth flow encountered 314 ft. Describe access port or control

devices: Five - 2" Diameter Piezometer Tube Wells

11. WELL TESTS:

☒ Pump	☒ Bailor	☒ Air	☐ Flowing Artesian
Yield gal./min.	Drawdown	Pumping Level	Time
Not Measured	Quality	Sampling	Only

Water Temp. 63°F

Bottom hole temp. 71.8°F

Water Quality test or comments: Cond = 310uS, pH = 7.5

ORP = +110mV, No Odor

Depth first Water Encounter 314' bgl

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
14"	0	6'	Top Soil		
14"	6'	12'	Tan Sand		
14"	12'	16'	Clay & Tan Sand		
14"	16'	31'	Tan Sand		
8"	31'	59'	Tan Sand & Clay		
8"	59'	90'	Mica Sand & Clay		
8"	90'	95'	Med. to Fine Sand		
8"	95'	97'	Sandy Clay		
8"	97'	108'	Sand Quartz		
8"	108'	112'	Tan Clay		
8"	112'	185'	Tan Clay & Sand Seams		
8"	185'	210'	Fine Tan Sand		
8"	210'	265'	Tan Clay		
8"	265'	295'	Tan Clay & Sand Seams		
8"	295'	344'	Blue Clay		
8"	344'	388'	Sand		
8"	388'	394'	Clay		
8"	394'	453'	Sandy		
8"	453'	478'	Blue Clay & Sand		
8"	478'	611'	Blue Clay & Mudstone		
8"	611'		Fine Grained Sandstone & Siltstone		
8"	630'	704'	Blue Clay & Mudstone		
8"	704'		Fine Gravel, Sandstone & Siltstone		
8"	714'	920'	Blue Clay & Mudstone		

Well design by Hydro Logic, Inc.

RECEIVED

Cable-tool & air-lift development until clear.

AUG 29 2007

WATER RESOURCES

WESTERN REGION

Completed Depth 442'

(Measurable)

Date: Started 12/5/2006

Completed 12/20/2006

13. DRILLER'S CERTIFICATION:

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

Company Name Treasure Valley Drilling

Firm No. 560

Firm Official

Date 1/4/2007

and

Driller or Operator

Date 1/4/2007

(Sign once if Firm Official & Operator)

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

1. WELL TAG NO. D 0047648 - 2
 DRILLING PERMIT NO. 897492-843865
 Other IDWR No.

2. OWNER:

Name **M3 Eagle, L.L.C.**
 Address **533 E. Riverside Drive, Suite 110**
 City **Eagle** State **ID** Zip **83616**

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

M3 EAGLE - TEST WELL #3

	Twp. 5	North ☒ or South
	Rge. 1	East or West ☒
	Sec. 15	SW 1/4 or SE 1/4 or NE 1/4 or NW 1/4
	Gov't Lot	County Ada
Lat: 43°45'56.5"		Long: 116°27'08.3"
Address of Well Site 8550 State Hwy 16		

North of Eagle on W Roseway Lane City **Eagle**
 (Give at least name of road - Distance to Road or Landmark)
 Lt. **Blk.** Sub. Name **4000 ft E of Hwy 16**

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	From	To	AMOUNT	METHOD
Material			Sacks or Pounds	
Bentonite Grout	391'	381'	20 gal.	Pumped
Bentonite Grout	360'	355'	10 gals.	Pumped
Bentonite Grout	303'	267'	46 gals.	Pumped
Bentonite Grout	267'	0	105 gals.	Pumped

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) **N/A**

Was drive shoe seal tested? ☒ Y ☐ N How? **N/A**

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
2"	+2'	369'	Sch80	PVC	☒			☒
2"	+2'	334'	Sch80	PVC	☒			☒
2"	+2'	238'	Sch80	PVC	☒			☒

Length of Headpipe

Length of Tailpipe

9. PERFORATIONS/SCREENS:

Perforations ☐ Method **Lowered & Sand-Packed**
☒ Screens ☐ Screen Type **PVC Sch 80 Slotted**

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
354'	334'	.020	Zone 4	2"	PVC	☒	
258'	238'	.020	Zone 5	2"	PVC	☒	

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

262 ft. below ground Artesian pressure **~22** lb.
 Depth flow encountered **314** ft. Describe access port or control devices: **Five - 2" Diameter Piezometer Tube Wells**

Office Use Only

Inspected by

Twp

Rge

Sec

1/4

1/4

1/4

Lat.

Long:

11. WELL TESTS:

Pump	Bailer	Air	Flowing Artesian
Yield gal./min.	Drawdown	Pumping Level	Time
Not	Measured		

Water Temp. **63° F**Bottom hole temp. **71.8° F**Water Quality test or comments: **Cond = 310uS, pH = 7.5**ORP = **+110mV**Depth first Water Encounter **314 ft bgl**

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks Lithology, Water Quality & Temperature	Water
			BENTONITE GROUTS	
			See: Sealing Procedures	
			Used CETCO Geothermal Grout	
			Percent Solids by Weight = 29%	
			FILTER SAND PLACEMENTS	
			TYPE	
			DEPT	
			From:	
			442'	
			391'	
			381'	
			360'	
			355'	
			303'	
			267'	
			Throep 8-16 Filter Sand	
			Throep 8-16 Filter Sand	
			Throep 8-16 Filter Sand	
			Throep 8-16 Filter Sand	
			GPS COORDINATES	
			Latitude 43°45'56.5"	
			Longitude 116°27'08.3"	
			Elevation=2,780 ft AMSL	
			Well Design by Hydro Logic, Inc.	
			Inferred fracture in mud-stone below 500 ft. (530 ft. to ???) which required large volume of grout & gravel to seal	

Completed Depth **442'**

(Measurable)

Date: Started **12/5/2006**Completed **12/20/2006**

13. DRILLER'S CERTIFICATION:

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

Company Name **Treasure Valley Drilling**Firm No. **560**

Firm Official

Date **1/11/2007**

and

Driller or Operator

Date **1/11/2007**

(Sign once if Firm Official & Operator)