

FORM NO.
GWS-31
04/2005

WELL CONSTRUCTION AND TEST REPORT

STATE OF COLORADO, OFFICE OF THE STATE ENGINEER
1313 Sherman St., Room 818, Denver, CO 80203
Phone - Info (303) 866-3587 Main (303) 866-3581
Fax (303) 866-3589 <http://www.water.state.co.us>

For Office Use Only

RECEIVED

JAN 11 2011

WATER RESOURCES
STATE ENGINEER
COLO.

1. WELL PERMIT NUMBER: 049540-MH **285095**

2. WELL OWNER INFORMATION
NAME OF WELL OWNER: Public Service Co. of Colo d/b/a Xcel Energy
MAILING ADDRESS: 14940 County Road 24
CITY: Brush STATE: CO ZIP CODE: 80723
TELEPHONE NUMBER: (970) 842-1235

3. WELL LOCATION AS DRILLED: SE1/4, NE1/4, Sec. 19, Twp. 3 N or S, Range 56 E or W
DISTANCES FROM SEC. LINES: _____ ft. from N or S section line and _____ ft. from E or W section line.
SUBDIVISION: _____, LOT _____, BLOCK _____, FILING (UNIT) _____
Optional GPS Location: GPS Unit must use the following settings: Format must be **UTM**, Units must be **meters**, Datum must be **NAD83**, Unit must be set to **true N**; Zone 12 or Zone 13
STREET ADDRESS AT WELL LOCATION: 14940 County Road 24, Brush, CO 80723 Northing: 4452180

Owner's Well Designation: **PNMW1B**
Easting: **0612121**

4. GROUND SURFACE ELEVATION **4330** feet DRILLING METHOD **Hollow Stem Auger**
DATE COMPLETED **11-17-10** TOTAL DEPTH **40** feet DEPTH COMPLETED **40** feet

5. GEOLOGIC LOG:

Depth	Type	Grain Size	Color	Water Loc.
0-17.5	Sand	Med-Fine	Tan	
17.5-39.5	Clay	Silt-Sandy	Tan	30'
39.5-40	Shale	Silty	Grey	

6. HOLE DIAM (in.) From (ft) To (ft)

10.25	0	40.5

7. PLAIN CASING:

OD (in)	Kind	Wall Size (in)	From (ft)	To (ft)
4	PVC	SCH 40	0'	20

PERFORATED CASING: Screen Slot Size (in): .020

OD (in)	Kind	Wall Size (in)	From (ft)	To (ft)
4	PVC	SCH 40	20	40

8. FILTER PACK:

Material	Sand
Size	10/20
Interval	18-20'

9. PACKER PLACEMENT:

Type	NA
Size	NA
Depth	NA

10. GROUTING RECORD

Material	Amount	Density	Interval	Placement
Bent.	350 LBS	NA	1-18'	Pour

Remarks: Bentonite Hydrated During Installation
Protective Steel Riser Installed.

11. DISINFECTION: Type NA Amt. Used NA

12. WELL TEST DATA: Check box if Test Data is submitted on Form Number GWS 39 Supplemental Well Test.

TESTING METHOD NA
Static Level **27.5** ft. Date/Time measured: **12-1-10** Production Rate **NA** gpm.
Pumping Level **NA** ft. Date/Time measured **NA** Test Length (hrs) **NA**
Remarks: None

13. I have read the statements made herein and know the contents thereof, and they are true to my knowledge. This document is signed and certified in accordance with Rule 17.4 of the Water Well Construction Rules, 2 CCR 402-2. [The filing of a document that contains false statements is a violation of section 37-91-108(1)(e), C.R.S., and is punishable by fines up to \$5000 and/or revocation of the contracting license.]

Company Name: Apex Consulting Services, Inc. Phone: (303)665-1400 License Number: PG-706 Wyoming

Mailing Address: P.O. Box 369, Louisville, CO 80027-0369

Signature:  Print Name and Title: Michael D. Hattel, P.E. Date: 1/4/2011

OFFICE OF THE STATE ENGINEER
COLORADO DIVISION OF WATER RESOURCES

818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203
(303) 866-3581

EXST

WELL PERMIT NUMBER 285095
DIV. 1 WD 1 DES. BASIN MD

APPLICANT

PUBLIC SERVICE COMPANY OF COLORADO
C/O APEX CONSULTING SERVICES
PO BOX 369
LOUISVILLE, CO 80027-0369

(303) 665-1400

APPROVED WELL LOCATION

MORGAN COUNTY
SE 1/4 NE 1/4 Section 19
Township 3 N Range 56 W Sixth P.M.

DISTANCES FROM SECTION LINES

2203 Ft. from North Section Line
735 Ft. from East Section Line

UTM COORDINATES (Meters, Zone: 13, NAD83)

Easting: 612121 Northing: 4452180

PERMIT TO USE AN EXISTING WELL

ISSUANCE OF THIS PERMIT DOES NOT CONFER A WATER RIGHT

CONDITIONS OF APPROVAL

- 1) This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of this permit does not ensure that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.
- 2) The construction of this well shall be in compliance with the Water Well Construction Rules 2 CCR 402-2, unless approval of a variance has been granted by the State Board of Examiners of Water Well Construction and Pump Installation Contractors in accordance with Rule 18.
- 3) Approved pursuant to CRS 37-92-602(3)(b)(l) for uses as described in CRS 37-92-602(1)(f). Use of this well is limited to monitoring water levels and/or water quality sampling.
- 4) Approved for the use of an existing well acknowledged for construction under monitoring hole notice MH-049510, and known as PNMW1B.
- 5) This well must be equipped with a locking cap or seal to prevent well contamination or possible hazards as an open well. The well must be kept capped and locked at all times except during sampling or measuring.
- 6) Records of water level measurements and water quality analyses shall be maintained by the well owner and submitted to the Division of Water Resources upon request.
- 7) Upon conclusion of the monitoring program the well owner shall plug this well in accordance with Rule 16 of the Water Well Construction Rules. A Well Abandonment Report must be completed and submitted to the Division of Water Resources within 60 days of plugging.
- 8) The owner shall mark the well in a conspicuous place with the well permit number and name of aquifer as appropriate, and shall take necessary means and precautions to preserve these markings.
- 9) This well must have been constructed by or under the supervision of a licensed well driller or other authorized individual according to the Water Well Construction Rules.
- 10) This well must be located not more than 200 feet from the location specified on this permit.

NOTE: Issuance of this permit does not guarantee that this well can be converted to a production well under a future permit. Additionally, pursuant to Rule 14.2 of the Water Well Construction Rules (2 CCR 402-2), monitoring holes constructed pursuant to a monitoring hole notice shall not be converted to a production well. (Upon obtaining a permit from the State Engineer, a monitoring hole may be converted to a monitoring well, recovery well for remediation of the aquifer, or a dewatering system for dewatering the aquifer.)

NOTICE: This permit has been approved subject to the following changes: The distances from section lines were calculated from UTM coordinate values provided with the permit application. You are hereby notified that you have the right to appeal the issuance of this permit, by filing a written request with this office within sixty (60) days of the date of issuance, pursuant to the State Administrative Procedures Act. (See Section 24-4-104 through 106, C.R.S.)

APPROVED
SVJ


State Engineer


By 

Receipt No. 3648668A

DATE ISSUED 02-17-2011

EXPIRATION DATE

COLORADO DIVISION OF WATER RESOURCES
 DEPARTMENT OF NATURAL RESOURCES
 1313 SHERMAN ST., RM 818, DENVER CO 80203
 phone - info: (303) 866-3587 main: (303) 866-3581
 Fax: (303) 866-3589 http://www.water.state.co.us

Office Use Only

Form GWS-46 (07/2009)

RECEIVED

JAN 11 2011

WATER RESOURCES
 STATE ENGINEER
 COLO.

MONITORING/OBSERVATION

Water Well Permit Application

Review instructions on reverse side prior to completing form.
 The form must be completed in black or blue ink or typed.

1. Well Owner Information

Name of well owner
 Public Service Company of Colorado d/b/a Xcel Energy
 Barry Andrews

Mailing address
 14940 County Road 24

City State Zip code
 Brush CO 80723

Telephone # E-Mail (Optional)
 (970)842-1235

2. Type Of Application (check applicable boxes)

Use existing well Replacement for existing monitoring well:
 Construct new well Permit no.:
 Other:

3. Refer To (if applicable)

Monitoring hole acknowledgment Well name or #
 MH- 049510 PNMW1B

4. Location Of Proposed Well (Important! See Instructions)

County Morgan SE 1/4 of the NE 1/4
 Section Township N or S Range E or W Principal Meridian
 19 3 56 6th

Distance of well from section lines (section lines are typically not property lines)
 Ft. from N S Ft. from E W

For replacement wells only - distance and direction from old well to new well
 feet direction

Well location address (Include City, State, Zip) Check if well address is same as Item 1.

Optional: GPS well location information in UTM format
 You must check GPS unit for required settings as follows:

Format must be UTM
 Zone 12 or Zone 13
 Units must be Meters
 Datum must be NAD83
 Unit must be set to true north
 Was GPS unit checked for above? YES Remember to set Datum to NAD83
 Easting 0612121
 Northing 4452180

5. Property Owner Information

Name of property owner
 Public Service Company of Colorado d/b/a Xcel Energy

Mailing address
 14940 County Road 24

City State Zip Code
 Brush CO 80723

Telephone #
 (970) 842-1235

6. Use Of Well

Use of this well is limited to monitoring water levels and/or water quality sampling

7. Well Data (proposed)

Total depth feet Aquifer
 40 Unconfined

8. Consultant Information (if applicable)

Name of contact person
 Michael D. Hattel

Company name
 Apex Consulting Services, Inc.

Mailing address
 P.O. Box 369

City State Zip Code
 Louisville CO 80027-0369

Telephone #
 (303) 665-1400

9. Proposed Well Driller License #(optional): PG-706 WY

10. Signature Of Well Owner Or Authorized Agent

The making of false statements herein constitutes perjury in the second degree, which is punishable as a class 1 misdemeanor pursuant to C.R.S. 24-4-104 (13)(a). I have read the statements herein, know the contents thereof and state that they are true to my knowledge.

Sign here (Must be original signature) Date
 1/4/11

Print name & title
 Michael Hattel, P.G.

Office Use Only

USGS map name DWR map no. Surface elev.

2203' N 735' E Receipt area only

Trans Number: 3648668
 1/11/2011 1:34:24 PM
 Yolanda Johnson (14)
 Total Trans Amt: \$700.00
 CREDIT CARD
 Tender Amount: \$700.00

DIV 1 WD 1 BA MD

WELL CONSTRUCTION SUMMARY

LOCATION: PAWNEE STATION

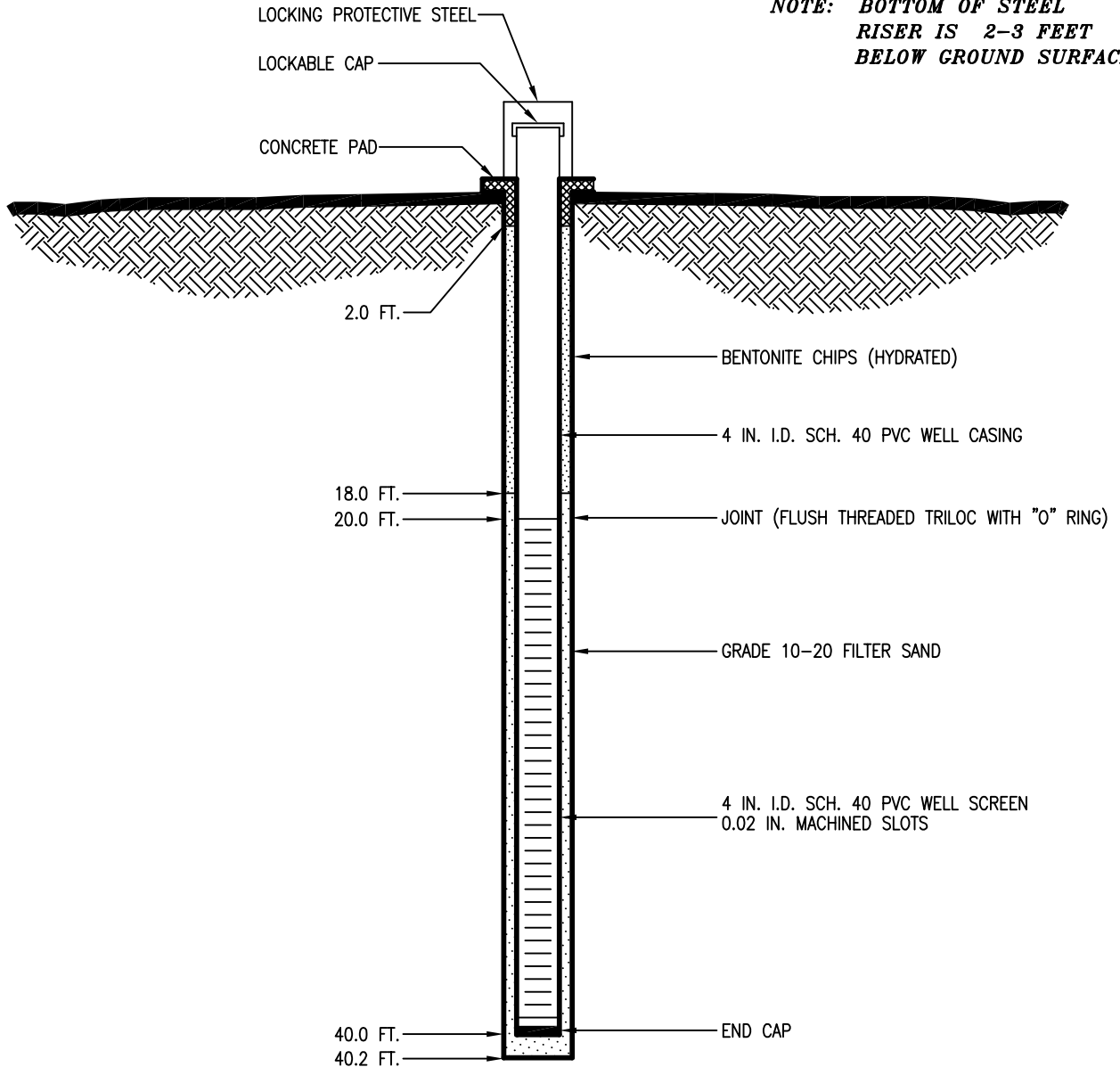
ELEVATION OF: TOP OF WELL CASING 4332.55 FT.

GROUND SURFACE 4330.57 FT.

PROTECTIVE CASING 4332.80 FT.

ALL DEPTHS ARE RELATIVE TO GROUND SURFACE EXCEPT AS INDICATED

NOTE: BOTTOM OF STEEL RISER IS 2-3 FEET BELOW GROUND SURFACE



INSTALLED BY: MIKE HATTEL, P.G.

NOT TO SCALE

DATE INSTALLED	<u>11-17-10</u>
DRILLER	<u>DRILLING ENGINEERS</u>
SOIL SAMPLES	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
GEOPHYSICAL LOG	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
VOLUME: SLURRY	<u>N/A</u>
SAND	<u>10/20</u>
BENTONITE	<u>350 LBS.</u>

DRILLING METHOD	<u>HOLLOW STEM AUGERS</u>
BORING LOG	<u>YES</u>
COMMENTS	<u> </u>
	<u> </u>
	<u> </u>
	<u> </u>

CONSTRUCTION SUMMARY	
PNMW1B	
PROJECT: <u>1-0013.005.01</u>	REVISIONS
DATE: <u>12-15-10</u>	<u>V-1</u>
FIGURE 1 APEX	

C:\MDS WORK FILES\files\01-312\Wellsum-Pawnee

FORM NO.
GWS-31
04/2005

WELL CONSTRUCTION AND TEST REPORT

STATE OF COLORADO, OFFICE OF THE STATE ENGINEER
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JAN 11 2011

WATER RESOURCES
STATE ENGINEER
CCO.

1. WELL PERMIT NUMBER: 049511-MH 285096

2. WELL OWNER INFORMATION

NAME OF WELL OWNER: Public Service Co. of Colo d/b/a Xcel Energy

MAILING ADDRESS: 14940 County Road 24

CITY: Brush STATE: CO ZIP CODE: 80723

TELEPHONE NUMBER: (970) 842-1235

3. WELL LOCATION AS DRILLED: SW1/4, NE1/4, Sec. 19, Twp. 3 N or S, Range 56 E or W

DISTANCES FROM SEC. LINES: _____ ft. from N or S section line and _____ ft. from E or W section line.

SUBDIVISION: _____, LOT _____, BLOCK _____, FILING (UNIT) _____

Optional GPS Location: GPS Unit must use the following settings: Format must be UTM, Units must be meters, Datum must be NAD83, Unit must be set to true N, Zone 12 or Zone 13

Owner's Well Designation: PNMW2B

Easting: 0611739

STREET ADDRESS AT WELL LOCATION: 14940 County Road 24, Brush, CO 80723 Northing: 4452218

4. GROUND SURFACE ELEVATION 4358 feet DRILLING METHOD Hollow Stem Auger

DATE COMPLETED 11-22-10 TOTAL DEPTH 62 feet DEPTH COMPLETED 62 feet

5. GEOLOGIC LOG:

Depth	Type	Grain Size	Color	Water Loc.
0-35'	Sand	Fine-Med	Tan	
35-59'	Clay	Silt-Sand	Tan	55.5'
59-62'	Shale	Silty	Grey	

6. HOLE DIAM (in.) From (ft) To (ft)

10.25	0	62

7. PLAIN CASING:

OD (in)	Kind	Wall Size (in)	From (ft)	To (ft)
4	PVC	SCH 40	0	27

PERFORATED CASING: Screen Slot Size (in): .20

OD (in)	Kind	Wall Size (in)	From (ft)	To (ft)
4	PVC	SCH 40	27	62

8. FILTER PACK:

Material	Sand
Size	10/20
Interval	25-62'

9. PACKER PLACEMENT:

Type	NA
Depth	NA

10. GROUTING RECORD

Material	Amount	Density	Interval	Placement
Bent.	500 LBS	NA	1-25'	Pour

Remarks: Bentonite Hydrated During Installation

Protective Steel Riser Installed.

11. DISINFECTION: Type NA Amt. Used NA

12. WELL TEST DATA: Check box if Test Data is submitted on Form Number GWS 39 Supplemental Well Test.

TESTING METHOD NA

Static Level 45.9 ft. Date/Time measured: 12-1-10 Production Rate NA gpm.

Pumping Level NA ft. Date/Time measured NA Test Length (hrs) NA

Remarks: None

13. I have read the statements made herein and know the contents thereof, and they are true to my knowledge. This document is signed and certified in accordance with Rule 17.4 of the Water Well Construction Rules, 2 CCR 402-2. [The filing of a document that contains false statements is a violation of section 37-91-108(1)(e), C.R.S., and is punishable by fines up to \$5000 and/or revocation of the contracting license.]

Company Name: Apex Consulting Services, Inc. Phone: (303)665-1400 License Number: PG-706 Wyoming

Mailing Address: P.O. Box 369, Louisville, CO 80027-0369

Signature: *Michael D. Hattel* Print Name and Title: Michael D. Hattel, P.E. Date: 1/4/2011

Form No.
GWS-25

**OFFICE OF THE STATE ENGINEER
COLORADO DIVISION OF WATER RESOURCES**

818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203
(303) 866-3581

EXST

WELL PERMIT NUMBER 285096
DIV. 1 WD 1 DES. BASIN MD

APPLICANT

PUBLIC SERVICE COMPANY OF COLORADO
C/O APEX CONSULTING SERVICES
PO BOX 369
LOUISVILLE, CO 80027-0369

(303) 665-1400

APPROVED WELL LOCATION

MORGAN COUNTY
SW 1/4 NE 1/4 Section 19
Township 3 N Range 56 W Sixth P.M.

DISTANCES FROM SECTION LINES

2049 Ft. from North Section Line
1986 Ft. from East Section Line

UTM COORDINATES (Meters, Zone: 13, NAD83)

Easting: 611739 Northing: 4452218

PERMIT TO USE AN EXISTING WELL

ISSUANCE OF THIS PERMIT DOES NOT CONFER A WATER RIGHT

CONDITIONS OF APPROVAL

- 1) This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of this permit does not ensure that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.
- 2) The construction of this well shall be in compliance with the Water Well Construction Rules 2 CCR 402-2, unless approval of a variance has been granted by the State Board of Examiners of Water Well Construction and Pump Installation Contractors in accordance with Rule 18.
- 3) Approved pursuant to CRS 37-92-602(3)(b)(I) for uses as described in CRS 37-92-602(1)(f). Use of this well is limited to monitoring water levels and/or water quality sampling.
- 4) Approved for the use of an existing well acknowledged for construction under monitoring hole notice MH-PNMW2B, and known as 049511.
- 5) This well must be equipped with a locking cap or seal to prevent well contamination or possible hazards as an open well. The well must be kept capped and locked at all times except during sampling or measuring.
- 6) Records of water level measurements and water quality analyses shall be maintained by the well owner and submitted to the Division of Water Resources upon request.
- 7) Upon conclusion of the monitoring program the well owner shall plug this well in accordance with Rule 16 of the Water Well Construction Rules. A Well Abandonment Report must be completed and submitted to the Division of Water Resources within 60 days of plugging.
- 8) The owner shall mark the well in a conspicuous place with the well permit number and name of aquifer as appropriate, and shall take necessary means and precautions to preserve these markings.
- 9) This well must have been constructed by or under the supervision of a licensed well driller or other authorized individual according to the Water Well Construction Rules.
- 10) This well must be located not more than 200 feet from the location specified on this permit.

NOTE: Issuance of this permit does not guarantee that this well can be converted to a production well under a future permit. Additionally, pursuant to Rule 14.2 of the Water Well Construction Rules (2 CCR 402-2), monitoring holes constructed pursuant to a monitoring hole notice shall not be converted to a production well. (Upon obtaining a permit from the State Engineer, a monitoring hole may be converted to a monitoring well, recovery well for remediation of the aquifer, or a dewatering system for dewatering the aquifer.)

NOTICE: This permit has been approved subject to the following changes: The distances from section lines were calculated from UTM coordinate values provided with the permit application. You are hereby notified that you have the right to appeal the issuance of this permit, by filing a written request with this office within sixty (60) days of the date of issuance, pursuant to the State Administrative Procedures Act. (See Section 24-4-104 through 106, C.R.S.)

APPROVED
SVJ

David Wolfe
State Engineer

AC Mawick
By
EXPIRATION DATE *N/A*

Receipt No. 3648668B

DATE ISSUED 02-17-2011

COLORADO DIVISION OF WATER RESOURCES
DEPARTMENT OF NATURAL RESOURCES
 1313 SHERMAN ST., RM 818, DENVER CO 80203
 phone - info: (303) 866-3587 main: (303) 866-3581
 Fax: (303) 866-3589 http://www.water.state.co.us

Office Use Only Form GWS-46 (07/2009)

RECEIVED

JAN 11 2011

WATER RESOURCES
STATE ENGINEER
COLO.

MONITORING/OBSERVATION
Water Well Permit Application
 Review instructions on reverse side prior to completing form.
 The form must be completed in black or blue ink or typed.

1. Well Owner Information

Name of well owner
Public Service Company of Colorado d/b/a Xcel Energy
Barry Andrews

Mailing address
14940 County Road 24

City	State	Zip code
Brush	CO	80723

Telephone # (970)842-1235 E-Mail (Optional)

6. Use Of Well

Use of this well is limited to monitoring water levels and/or water quality sampling

2. Type Of Application (check applicable boxes)

Use existing well Replacement for existing monitoring well:
 Construct new well Permit no.:
 Other:

7. Well Data (proposed)

Total depth	feet	Aquifer
62		Unconfined

3. Refer To (if applicable)

Monitoring hole acknowledgment	Well name or #
MH- 049511	PNMW2B

8. Consultant Information (if applicable)

Name of contact person
Michael D. Hattel

Company name
Apex Consulting Services, Inc.

4. Location Of Proposed Well (Important! See Instructions)

County
Morgan

SW 1/4 of the NE 1/4

Section	Township	N or S	Range	E or W	Principal Meridian
19	3	<input checked="" type="checkbox"/> <input type="checkbox"/>	56	<input type="checkbox"/> <input checked="" type="checkbox"/>	6th

Mailing address
P.O. Box 369

City	State	Zip Code
Louisville	CO	80027-0369

Telephone # (303) 665-1400

Distance of well from section lines (section lines are typically not property lines)

Ft. from N S Ft. from E W

For replacement wells only - distance and direction from old well to new well

feet direction

Well location address (Include City, State, Zip) Check if well address is same as Item 1.

9. Proposed Well Driller License #(optional):PG-706 WY

10. Signature Of Well Owner Or Authorized Agent

The making of false statements herein constitutes perjury in the second degree, which is punishable as a class 1 misdemeanor pursuant to C.R.S. 24-4-104 (13)(a). I have read the statements herein, know the contents thereof and state that they are true to my knowledge.

Sign here (Must be original signature) Date

Michael D. Hattel 1/4/11

Print name & title
Michael Hattel, P.E.

Optional: GPS well location information in UTM format
 You must check GPS unit for required settings as follows:

Format must be UTM
 Zone 12 or Zone 13
 Units must be Meters
 Datum must be NAD83
 Unit must be set to true north

Was GPS unit checked for above? YES Remember to set Datum to NAD83

Easting 0611739
 Northing 4452218

Office Use Only

USGS map name	DWR map no.	Surface elev.
2049'N 1980'E		

Receipt area only

Trans Number: 3648668 **B**
 1/11/2011 1:34:24 PM
 Yolanda Johnson (14)
 Total Trans Amt: \$700.00
CREDIT CARD
 Tender Amount: \$700.00

5. Property Owner Information

Name of property owner
Public Service Company of Colorado d/b/a Xcel Energy

Mailing address
14940 County Road 24

City	State	Zip Code
Brush	CO	80723

Telephone # (970) 842-1235

Office Use Only

DIV 1 WD 1 BA MD

WELL CONSTRUCTION SUMMARY

LOCATION: PAWNEE STATION

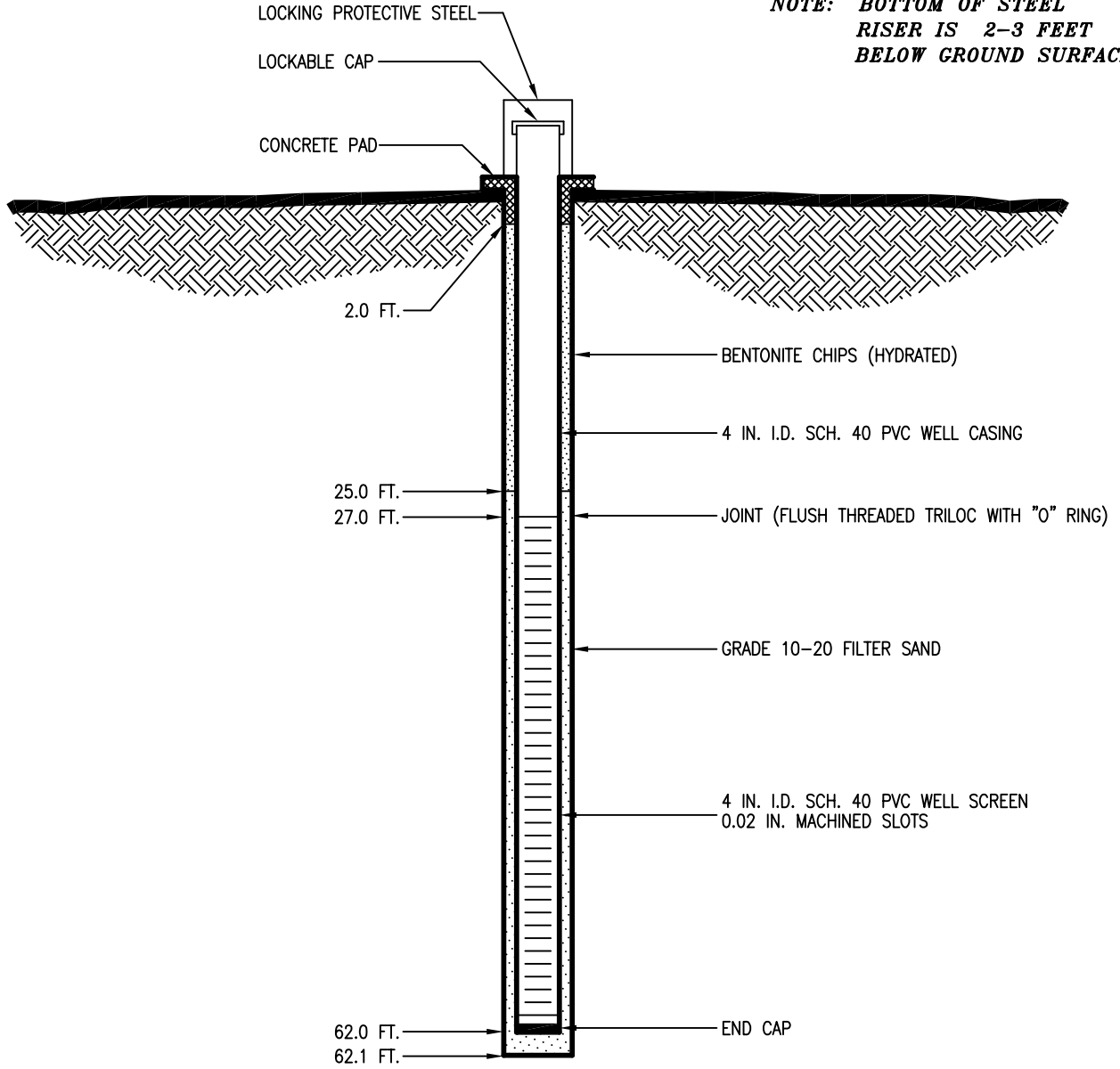
ELEVATION OF: TOP OF WELL CASING 4360.17 FT.

GROUND SURFACE 4358.35 FT.

PROTECTIVE CASING 4360.42 FT.

ALL DEPTHS ARE RELATIVE TO GROUND SURFACE EXCEPT AS INDICATED

NOTE: BOTTOM OF STEEL RISER IS 2-3 FEET BELOW GROUND SURFACE



INSTALLED BY: MIKE HATTEL, P.G.

NOT TO SCALE

DATE INSTALLED	<u>11-22-10</u>
DRILLER	<u>DRILLING ENGINEERS</u>
SOIL SAMPLES	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
GEOPHYSICAL LOG	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
VOLUME: SLURRY	<u>N/A</u>
SAND	<u>10/20</u>
BENTONITE	<u>500 LBS.</u>

DRILLING METHOD	<u>HOLLOW STEM AUGERS</u>
BORING LOG	<u>YES</u>
COMMENTS	<u> </u>
	<u> </u>
	<u> </u>
	<u> </u>

CONSTRUCTION SUMMARY	
PNMW2B	
PROJECT: <u>1-0013.005.01</u>	REVISIONS
DATE: <u>12-15-10</u>	<u>V-1</u>
FIGURE 2 APEX	

C:\MDS WORK FILES\files\01-312\Wellsum-Pawnee

OFFICE OF THE STATE ENGINEER
COLORADO DIVISION OF WATER RESOURCES

818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203
(303) 866-3581

EXST

WELL PERMIT NUMBER		285098	
DIV. 1	WD 1	DES. BASIN	MD

APPLICANT

PUBLIC SERVICE COMPANY OF COLORADO
C/O APEX CONSULTING SERVICES
PO BOX 369
LOUISVILLE, CO 80027-0369

(303) 665-1400

APPROVED WELL LOCATION

MORGAN COUNTY
NE 1/4 SE 1/4 Section 19
Township 3 N Range 56 W Sixth P.M.

DISTANCES FROM SECTION LINES

2100 Ft. from South Section Line
774 Ft. from East Section Line

UTM COORDINATES (Meters, Zone: 13, NAD83)

Easting: 612116 Northing: 4451812

PERMIT TO USE AN EXISTING WELL

ISSUANCE OF THIS PERMIT DOES NOT CONFER A WATER RIGHT

CONDITIONS OF APPROVAL


- 1) This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of this permit does not ensure that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.
- 2) The construction of this well shall be in compliance with the Water Well Construction Rules 2 CCR 402-2, unless approval of a variance has been granted by the State Board of Examiners of Water Well Construction and Pump Installation Contractors in accordance with Rule 18.
- 3) Approved pursuant to CRS 37-92-602(3)(b)(i) for uses as described in CRS 37-92-602(1)(f). Use of this well is limited to monitoring water levels and/or water quality sampling.
- 4) Approved for the use of an existing well acknowledged for construction under monitoring hole notice MH-049512, and known as PNMW5B.
- 5) This well must be equipped with a locking cap or seal to prevent well contamination or possible hazards as an open well. The well must be kept capped and locked at all times except during sampling or measuring.
- 6) Records of water level measurements and water quality analyses shall be maintained by the well owner and submitted to the Division of Water Resources upon request.
- 7) Upon conclusion of the monitoring program the well owner shall plug this well in accordance with Rule 16 of the Water Well Construction Rules. A Well Abandonment Report must be completed and submitted to the Division of Water Resources within 60 days of plugging.
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NOTICE: This permit has been approved subject to the following changes: The distances from section lines were calculated from UTM coordinate values provided with the permit application. You are hereby notified that you have the right to appeal the issuance of this permit, by filing a written request with this office within sixty (60) days of the date of issuance, pursuant to the State Administrative Procedures Act. (See Section 24-4-104 through 106, C.R.S.)

APPROVED
SVJ

Dick Wolfe
State Engineer

H. Guawier
By 

Receipt No. 3648668D

DATE ISSUED 02-17-2011

EXPIRATION DATE

COLORADO DIVISION OF WATER RESOURCES
DEPARTMENT OF NATURAL RESOURCES
 1313 SHERMAN ST., RM 818, DENVER CO 80203
 phone - info: (303) 866-3587 main: (303) 866-3581
 Fax: (303) 866-3589 http://www.water.state.co.us

Office Use Only

Form GWS-46 (07/2009)

RECEIVED

JAN 11 2011

WATER STATE COL.

MONITORING/OBSERVATION

Water Well Permit Application

Review instructions on reverse side prior to completing form.
 The form must be completed in black or blue ink or typed.

1. Well Owner Information

Name of well owner
 Public Service Company of Colorado d/b/a Xcel Energy
 Barry Andrews

Mailing address
 14940 County Road 24

City State Zip code
 Brush CO 80723

Telephone # E-Mail (Optional)
 (970)842-1235

2. Type Of Application (check applicable boxes)

Use existing well Replacement for existing monitoring well:
 Construct new well Permit no.:
 Other:

3. Refer To (if applicable)

Monitoring hole acknowledgment Well name or #
 MH- 049512 PNMWSB

4. Location Of Proposed Well (Important! See Instructions)

County
 Morgan NE 1/4 of the SE 1/4

Section	Township	N or S	Range	E or W	Principal Meridian
19	3	<input checked="" type="checkbox"/> <input type="checkbox"/>	56	<input type="checkbox"/> <input checked="" type="checkbox"/>	6th

Distance of well from section lines (section lines are typically not property lines)
 Ft. from N S Ft. from E W

For replacement wells only -- distance and direction from old well to new well
 feet direction

Well location address (Include City, State, Zip) Check if well address is same as Item 1.

Optional: GPS well location information in UTM format
 You must check GPS unit for required settings as follows:

Format must be UTM
 Zone 12 or Zone 13
 Units must be Meters
 Datum must be NAD83
 Unit must be set to true north
 Was GPS unit checked for above? YES Remember to set Datum to NAD83

Easting 0612116
 Northing 4451812

5. Property Owner Information

Name of property owner
 Public Service Company of Colorado d/b/a Xcel Energy

Mailing address
 14940 County Road 24

City State Zip Code
 Brush CO 80723

Telephone #
 (970) 842-1235

6. Use Of Well

Use of this well is limited to monitoring water levels and/or water quality sampling

7. Well Data (proposed)

Total depth	Aquifer
48 feet	Unconfined

8. Consultant Information (if applicable)

Name of contact person
 Michael D. Hattel

Company name
 Apex Consulting Services, Inc.

Mailing address
 P.O. Box 369

City State Zip Code
 Louisville CO 80027-0369

Telephone #
 (303) 665-1400

9. Proposed Well Driller License #(optional):PG-706 WY

10. Signature Of Well Owner Or Authorized Agent

The making of false statements herein constitutes perjury in the second degree, which is punishable as a class 1 misdemeanor pursuant to C.R.S. 24-4-104 (13)(a). I have read the statements herein, know the contents thereof and state that they are true to my knowledge.

Sign here (Must be original signature) Date
 1/4/11

Print name & title
 Michael Hattel, P.E.

Office Use Only

USGS map name DWR map no. Surface elev.

2100'S 774'E Receipt area only

Trans Number: 3648668 D
 1/11/2011 1:34:24 PM
 Yolanda Johnson (14)
 Total Trans Amt: \$700.00
 CREDIT CARD
 Tender Amount: \$700.00

DIV 1 WD 1 BA MD

FORM NO. GWS-31 04/2005

WELL CONSTRUCTION AND TEST REPORT

STATE OF COLORADO, OFFICE OF THE STATE ENGINEER
1313 Sherman St., Room 818, Denver, CO 80203
Phone - Info (303) 866-3587 Main (303) 866-3581
Fax (303) 866-3589 http://www.water.state.co.us

For Office Use Only

RECEIVED

JAN 11 2011

WATER RESOURCES STATE ENGINEER COLO.

1. WELL PERMIT NUMBER: MH-049516 285101
2. WELL OWNER INFORMATION
NAME OF WELL OWNER: Public Service Co. of Colo d/b/a Xcel Energy
MAILING ADDRESS: 14940 County Road 24
CITY: Brush STATE: CO ZIP CODE: 80723
TELEPHONE NUMBER: (970) 842-1235

3. WELL LOCATION AS DRILLED: SE1/4, SE1/4, Sec. 19, Twp. 3 [X] N or [] S, Range 56 [] E or [X] W
DISTANCES FROM SEC. LINES: ft. from [] N or [] S section line and ft. from [] E or [] W section line.
SUBDIVISION: LOT BLOCK FILING (UNIT)
Optional GPS Location: GPS Unit must use the following settings: Format must be UTM, Units must be meters, Datum must be NAD83, Unit must be set to true N, [] Zone 12 or [X] Zone 13
STREET ADDRESS AT WELL LOCATION: 14940 County Road 24, Brush, CO 80723 Northing: 4451442
Owner's Well Designation: PNMW11 Easting: 0611998

4. GROUND SURFACE ELEVATION 4372 feet DRILLING METHOD Hollow Stem Auger
DATE COMPLETED 11-30-10 TOTAL DEPTH 75 feet DEPTH COMPLETED 75 feet

5. GEOLOGIC LOG: Table with columns: Depth, Type, Grain Size, Color, Water Loc.
0-46' Sand V Fine-Med Tan
46-51' Clayey Sand Med Tan
51-72' Sand Fine-Med Tan 69'
72-74.5' Clay Silty Grey
74.5-75' Shale Silty Grey

6. HOLE DIAM (in.) From (ft) To (ft)
10.25 0 75

7. PLAIN CASING: OD (in) Kind Wall Size (in) From (ft) To (ft)
4 PVC SCH 40 0 45
PERFORATED CASING: Screen Slot Size (in): .20
4 PVC SCH 40 45 75

8. FILTER PACK: Material Sand Size 10/20 Interval 43-75'
9. PACKER PLACEMENT: Type NA Depth NA

Remarks: Bentonite Hydrated During Installation
Protective Steel Riser Installed.

10. GROUTING RECORD
Material Amount Density Interval Placement
Bent. 950 LBS NA 1-43' Pour

11. DISINFECTION: Type NA Amt. Used NA

12. WELL TEST DATA: [] Check box if Test Data is submitted on Form Number GWS 39 Supplemental Well Test.
TESTING METHOD NA
Static Level 66.8 ft. Date/Time measured: 12-1-10 Production Rate NA gpm.
Pumping Level NA ft. Date/Time measured NA Test Length (hrs) NA
Remarks: None

13. I have read the statements made herein and know the contents thereof, and they are true to my knowledge. This document is signed and certified in accordance with Rule 17.4 of the Water Well Construction Rules, 2 CCR 402-2. [The filing of a document that contains false statements is a violation of section 37-91-108(1)(e), C.R.S., and is punishable by fines up to \$5000 and/or revocation of the contracting license.]

Company Name: Apex Consulting Services, Inc. Phone: (303)665-1400 License Number: PG-706 Wyoming

Mailing Address: P.O. Box 369, Louisville, CO 80027-0369

Signature: [Signature] Print Name and Title: Michael D. Hattel, P.E. Date: 1/4/2011

OFFICE OF THE STATE ENGINEER
COLORADO DIVISION OF WATER RESOURCES

818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203
(303) 866-3581

EXST

WELL PERMIT NUMBER 285101
DIV. 1 WD 1 DES. BASIN MD

APPLICANT

PUBLIC SERVICE COMPANY OF COLORADO
C/O APEX CONSULTING SERVICES
PO BOX 369
LOUISVILLE, CO 80027-0369

(303) 665-1400

APPROVED WELL LOCATION

MORGAN COUNTY
SE 1/4 SE 1/4 Section 19
Township 3 N Range 56 W Sixth P.M.

DISTANCES FROM SECTION LINES

917 Ft. from South Section Line
1184 Ft. from East Section Line

UTM COORDINATES (Meters, Zone: 13, NAD83)

Easting: 611998 Northing: 4451442

PERMIT TO USE AN EXISTING WELL

ISSUANCE OF THIS PERMIT DOES NOT CONFER A WATER RIGHT

CONDITIONS OF APPROVAL

- 1) This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of this permit does not ensure that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.
- 2) The construction of this well shall be in compliance with the Water Well Construction Rules 2 CCR 402-2, unless approval of a variance has been granted by the State Board of Examiners of Water Well Construction and Pump Installation Contractors in accordance with Rule 18.
- 3) Approved pursuant to CRS 37-92-602(3)(b)(I) for uses as described in CRS 37-92-602(1)(f). Use of this well is limited to monitoring water levels and/or water quality sampling.
- 4) Approved for the use of an existing well acknowledged for construction under monitoring hole notice MH-049516, and known as PNMW11.
- 5) This well must be equipped with a locking cap or seal to prevent well contamination or possible hazards as an open well. The well must be kept capped and locked at all times except during sampling or measuring.
- 6) Records of water level measurements and water quality analyses shall be maintained by the well owner and submitted to the Division of Water Resources upon request.
- 7) Upon conclusion of the monitoring program the well owner shall plug this well in accordance with Rule 16 of the Water Well Construction Rules. A Well Abandonment Report must be completed and submitted to the Division of Water Resources within 60 days of plugging.
- 8) The owner shall mark the well in a conspicuous place with the well permit number and name of aquifer as appropriate, and shall take necessary means and precautions to preserve these markings.
- 9) This well must have been constructed by or under the supervision of a licensed well driller or other authorized individual according to the Water Well Construction Rules.
- 10) This well must be located not more than 200 feet from the location specified on this permit.

NOTE: Issuance of this permit does not guarantee that this well can be converted to a production well under a future permit. Additionally, pursuant to Rule 14.2 of the Water Well Construction Rules (2 CCR 402-2), monitoring holes constructed pursuant to a monitoring hole notice shall not be converted to a production well. (Upon obtaining a permit from the State Engineer, a monitoring hole may be converted to a monitoring well, recovery well for remediation of the aquifer, or a dewatering system for dewatering the aquifer.)

NOTICE: This permit has been approved subject to the following changes: The distances from section lines were calculated from UTM coordinate values provided with the permit application. You are hereby notified that you have the right to appeal the issuance of this permit, by filing a written request with this office within sixty (60) days of the date of issuance, pursuant to the State Administrative Procedures Act. (See Section 24-4-104 through 106, C.R.S.)

APPROVED
SVJ

Dirk Wolfe
State Engineer

McManis
By *MM*

Receipt No. 3648668G

DATE ISSUED 02-17-2011

EXPIRATION DATE

7x25 AB

COLORADO DIVISION OF WATER RESOURCES
DEPARTMENT OF NATURAL RESOURCES
1313 SHERMAN ST., RM 818, DENVER CO 80203
phone - info: (303) 866-3587 main: (303) 866-3581
Fax: (303) 866-3589 http://www.water.state.co.us

Office Use Only
Form GWS-46 (07/2009)
RECEIVED
JAN 11 2011
WATER RESOURCES
STATE ENGINEER
COL.

MONITORING/OBSERVATION
Water Well Permit Application
Review instructions on reverse side prior to completing form.
The form must be completed in black or blue ink or typed.

1. Well Owner Information
Name of well owner
Public Service Company of Colorado d/b/a Xcel Energy
Barry Andrews

Mailing address
14940 County Road 24

City State Zip code
Brush CO 80723

Telephone # E-Mail (Optional)
(970)842-1235

2. Type Of Application (check applicable boxes)
 Use existing well Replacement for existing monitoring well:
 Construct new well Permit no.:
 Other:

3. Refer To (if applicable)
Monitoring hole acknowledgment Well name or #
MH- 049516 PNMW11

4. Location Of Proposed Well (Important! See Instructions)
County: Morgan SE 1/4 of the SE 1/4
Section Township N or S Range E or W Principal Meridian
19 3 56 6th

Distance of well from section lines (section lines are typically not property lines)
Ft. from N S Ft. from E W

For replacement wells only - distance and direction from old well to new well
feet direction

Well location address (Include City, State, Zip) Check if well address is same as Item 1.

Optional: GPS well location information in UTM format
You must check GPS unit for required settings as follows:

Format must be UTM
 Zone 12 or Zone 13
Units must be Meters
Datum must be NAD83
Unit must be set to true north
Was GPS unit checked for above? YES Remember to set Datum to NAD83
Easting 0611998
Northing 4451442

5. Property Owner Information
Name of property owner
Public Service Company of Colorado d/b/a Xcel Energy

Mailing address
14940 County Road 24

City State Zip Code
Brush CO 80723

Telephone #
(970) 842-1235

6. Use Of Well
Use of this well is limited to monitoring water levels and/or water quality sampling

7. Well Data (proposed)
Total depth feet Aquifer
75' Unconfined

8. Consultant Information (if applicable)
Name of contact person
Michael D. Hattel

Company name
Apex Consulting Services, Inc.

Mailing address
P.O. Box 369

City State Zip Code
Louisville CO 80027-0369

Telephone #
(303) 665-1400

9. Proposed Well Driller License #(optional): PG-706 WY

10. Signature Of Well Owner Or Authorized Agent
The making of false statements herein constitutes perjury in the second degree, which is punishable as a class 1 misdemeanor pursuant to C.R.S. 24-4-104 (13)(a). I have read the statements herein, know the contents thereof and state that they are true to my knowledge.

Sign here (Must be original signature) Date
Michael D. Hattel 1/4/11

Print name & title
Michael Hattel, P.O.

Office Use Only
USGS map name DWR map no. Surface elev.

917'S 1184'E
Receipt area only

Trans Number: 3648668 for
1/11/2011 1:34:24 PM
Yolanda Johnson (14)
Total Trans Amt: \$700.00
CREDIT CARD
Tender Amount: \$700.00

DIV 1 WD 1 BA MD

WELL CONSTRUCTION SUMMARY

LOCATION: PAWNEE STATION

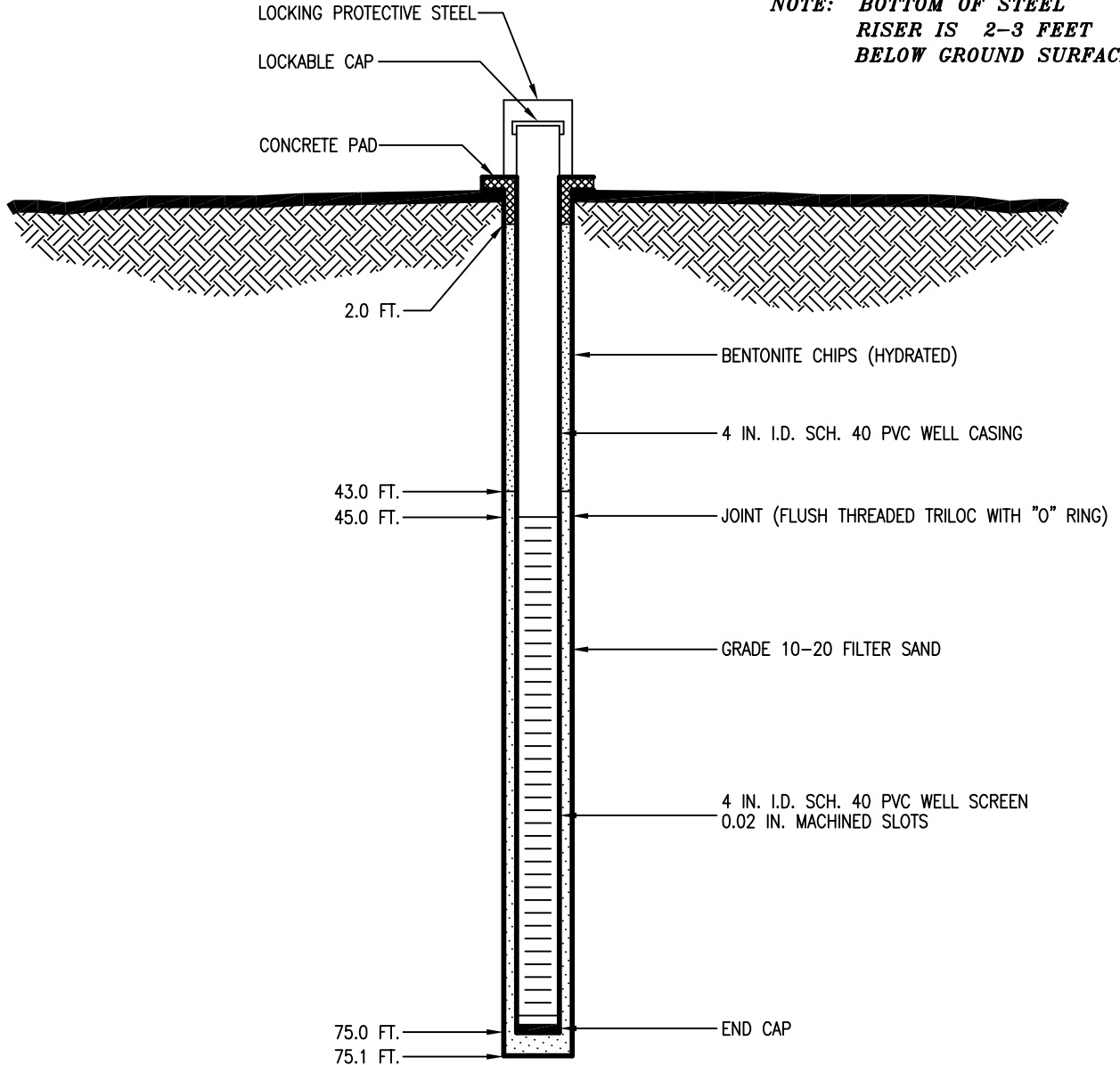
ELEVATION OF: TOP OF WELL CASING 4374.48 FT.

GROUND SURFACE 4371.99 FT.

PROTECTIVE CASING 4374.73 FT.

ALL DEPTHS ARE RELATIVE TO GROUND SURFACE EXCEPT AS INDICATED

NOTE: BOTTOM OF STEEL RISER IS 2-3 FEET BELOW GROUND SURFACE



INSTALLED BY: MIKE HATTEL, P.G.

NOT TO SCALE

DATE INSTALLED 11-30-10

DRILLER DRILLING ENGINEERS

SOIL SAMPLES YES NO

GEOPHYSICAL LOG YES NO

VOLUME: SLURRY N/A

SAND 10/20

BENTONITE 950 LBS.

DRILLING METHOD HOLLOW STEM AUGERS

BORING LOG YES

COMMENTS _____

CONSTRUCTION SUMMARY	
PNMW11B	
PROJECT: <u>1-0013.005.01</u>	REVISIONS
DATE: <u>12-15-10</u>	<u>V-1</u>
FIGURE 7 APEX	

C:\MDS WORK FILES\files\01-312\Wellsum-Pawnee