



Arizona Department of Water Resources
 Records Management Section
 500 N. 3rd Street • Phoenix, Arizona 85004
 (602) 417-2405 • (800) 352-8488
 www.water.az.gov

**Project Completion Report for
 Mineral Exploration Drilling**

- ❖ Review instructions prior to completing form in black or blue ink.
- ❖ This report should be prepared by the well owner or exploration firm in detail and filed with the Department within 30 days following completion of the project as a whole.

FILE NUMBER
 D3-2932
 WELL REGISTRATION NUMBER
 55-217422

** PLEASE PRINT CLEARLY **

SECTION 1: LOCATION OF WELL

WELL LOCATION ADDRESS (IF ANY)

TOWNSHIP (NS)	RANGE (EW)	SECTION	160 ACRE	40 ACRE	10 ACRE
35	29E	32	¼	¼	¼

Layne Job # 34-1805 & 1819

SECTION 2: OWNER INFORMATION		SECTION 3: DRILLING AUTHORIZATION	
Well Owner		Drilling Firm	
FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL Phelps Dodge Morenci, Inc		NAME Layne Christensen Co.	
MAILING ADDRESS 4521 US Highway 191		DWR LICENSE NUMBER 7	
CITY / STATE / ZIP CODE Morenci, AZ 85540		TELEPHONE NUMBER 480-895-9336 ext. 7103	
CONTACT PERSON NAME AND TITLE Julian Tellez - Geologist		FAX	
TELEPHONE NUMBER	FAX	3978 4276 3979 4283 4046 4284 4083 4139-A	

Hole #s →

SECTION 4:

DATE DRILLING PROJECT STARTED 2-19-08	DATE DRILLING PROJECT COMPLETED 2-19-09	NUMBER OF HOLES 8
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Casing (if installed)				Geologic Log of Well	
OUTER DIAMETER (inches)	MATERIAL (T)			CHECK ONE	
	STEEL	PVC	ABS	<input type="checkbox"/> Unconsolidated Formation	<input checked="" type="checkbox"/> Consolidated Formation:
None				STATIC WATER LEVEL (IF ENCOUNTERED OR DETECTED) Feet Below Land Surface	

SECTION 5. ACTUAL WELL ABANDONMENT DESIGN (if abandoned)

Casing Treatment (if applicable)					Sealing or Fill Material													
DEPTH FROM SURFACE		TREATMENT TYPE (T)			IF OTHER TYPE, DESCRIBE OR IF CASING WAS PERFORATED, DESCRIBE SPACING AND SIZE OF PERFORATIONS THAT WERE ADDED	DEPTH FROM SURFACE		MATERIAL TYPE (T)							MIXING RATIO by (check one) <input type="checkbox"/> Weight <input type="checkbox"/> Volume	VOLUME OF MATERIAL USED (cubic feet)		
FROM (feet)	TO (feet)	SONAR JET	BRUSH OR SCRAPE	MILLS KNIFE		FROM (feet)	TO (feet)	NEAT CEMENT	CONCRETE	SAND-CEMENT GROUT	CEMENT-BENTONITE GROUT	SAND-BENTONITE GROUT	HIGH SOLIDS BENTONITE				SAND	
None						0	20	✓										
						20	T.D.											

I state that this report is filed in compliance with A.A.C. R12-15-817(C) and is complete and correct to the best of my knowledge and belief.

TYPE OR PRINT NAME AND TITLE Mitchel Daniels - Operations Manager	SIGNATURE OF WELL OWNER OR EXPLORATION FIRM <i>Mitchel Daniels</i>	DATE 3/12/09
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Arizona Department of Water Resources
 Water Management Support Section
 P.O. Box 458 • Phoenix, Arizona 85001-0458
 (602) 417-2470 • (800) 352-8488
 www.water.az.gov

**Notice of Intent to
 Drill and Abandon an
 Exploration / Specialty Well**

\$150 FEE

- ❖ Review instructions prior to completing form in black or blue ink.
- ❖ You must include with your Notice:
- \$150 check or money order for the filing fee. Only one Notice of Intent to Drill is required for all wells that are drilled by or for the same person to obtain geophysical, mineralogical or geotechnical data within a single section of land.
- Well construction diagram showing all proposed well construction features listed in Section 5 and the proposed abandonment specifications listed in Section 6.
- ❖ Authority for fee: A.R.S. § 45-596.
- ** PLEASE PRINT CLEARLY **

AMA/INA	B	SB
RECEIVED	DATE	WS
7/20/08	15	
ISSUED	DATE	WQARF CERCLA

FILE NUMBER
D29) 32 000
WELL REGISTRATION NUMBER
55-217422

SECTION 1. REGISTRY INFORMATION

Well Type	Location of Well						
CHECK ONE	WELL LOCATION ADDRESS (IF ANY)						
<input checked="" type="checkbox"/> Mineral Exploration	RECEIVED						
<input type="checkbox"/> Geotechnical							
<input type="checkbox"/> Heat Pump	TOWNSHIP (N/S)	RANGE (E/W)	SECTION	160 ACRE	40 ACRE	FEED 20 ACRE	Number of Wells (holes) per 10-acre location
<input type="checkbox"/> Cathodic Protection	35	29E	32	1/4	W 1/4	1/4	100
<input type="checkbox"/> Grounding	Use additional boxes to the right to list 160,40,10 acre descriptions for multiple wells drilled to obtain geophysical or geotechnical data on different 10-acre parcels within a single section of land (160, 40, 10 acre descriptions are not required for mineralogical exploration wells).						
<input type="checkbox"/> Other (please specify)							
COUNTY WHERE WELL(S) ARE LOCATED: <u>Greenlee</u>							

SECTION 2. OWNER INFORMATION

Well Owner	Landowner (if different from Well Owner)
FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL	FULL NAME OF COMPANY, GOVERNMENT AGENCY, OR INDIVIDUAL
<u>Freeport-McMoran Copper Gold INC</u>	<u>Freeport-McMoran Copper Gold INC</u>
MAILING ADDRESS	MAILING ADDRESS
<u>4521 US Hwy 191</u>	<u>4521 US Hwy 191</u>
CITY / STATE / ZIP CODE	CITY / STATE / ZIP CODE
<u>Morenci, AZ 85540</u>	<u>Morenci, AZ 85540</u>
CONTACT PERSON NAME AND TITLE	CONTACT PERSON NAME AND TITLE
<u>Raymond E. Irwin, Senior Geologist</u>	<u>Raymond E. Irwin, Senior Geologist</u>
TELEPHONE NUMBER	TELEPHONE NUMBER
<u>(928) 865-6270</u>	<u>(928) 865-6270</u>
FAX	FAX
<u>(928) 865-3944</u>	<u>(928) 865-3944</u>

SECTION 3. DRILLING AUTHORIZATION

Drilling Firm	Consultant (if applicable)
NAME	CONSULTING FIRM
<u>Layne Christenson Co.</u>	<u>N.A.</u>
DWR LICENSE NUMBER	CONTACT PERSON NAME
<u>7</u>	
ROC LICENSE CATEGORY	TELEPHONE NUMBER
<u>071734 Class A-04</u>	
TELEPHONE NUMBER	FAX
<u>(480) 895-9336</u>	
FAX	E-MAIL ADDRESS
<u>(480) 895-9536</u>	

SECTION 4.

Questions	Yes	No	If Yes:
1. Is the proposed well site within 100 feet of a septic tank system, sewer disposal area, landfill, hazardous materials or petroleum storage area or tank?		NO	You must submit a letter requesting a variance from the 100-foot setback requirement (A.A.C. R12-15-818). However, if the proposed well is a geotechnical well that will be abandoned before the drill rig leaves the well site, a variance may be requested by simply checking the box below. <input type="checkbox"/> I request a variance from the 100-foot setback requirement for a geotechnical well.
2. If applicable, are you requesting a variance to use thermoplastic casing in lieu of steel in the surface seal?		NO	The wells must be constructed in a vault as defined in A.A.C. R12-15-801(27).
3. Is there another well name or identification number associated with this well?		NO	PLEASE STATE

Notice of Intent to Drill and Abandon an Exploration / Specialty Well

Provide a well construction diagram showing all existing well construction features listed in Section 5 and the proposed abandonment specifications listed in Section 6. Please submit additional sheets (page 2) and additional well construction diagrams if multiple wells are to be drilled and construction or abandonment details vary.

WELL REGISTRATION NUMBER
55-217422

SECTION 5. PROPOSED WELL CONSTRUCTION PLAN (attach additional page if needed) DATE CONSTRUCTION TO BEGIN

**** Required Information ****

1/8/08

Borehole			Casing (if applicable)													
DEPTH FROM SURFACE		BOREHOLE DIAMETER (inches)	DEPTH FROM SURFACE		OUTER DIAMETER (inches)	MATERIAL TYPE (T)				PERFORATION TYPE (T)					SLOT SIZE IF ANY (inches)	
FROM (feet)	TO (feet)		FROM (feet)	TO (feet)		STEEL	PVC	ABS	IF OTHER TYPE, DESCRIBE	BLANK OR NONE	WIRE WRAP	SHUTTER SCREEN	MILLS KNIFE	SLOTTED		IF OTHER TYPE, DESCRIBE
0	1,200	5.5	NONE													
1,200	1,500	3.02	NONE													

Annular Material												
DEPTH FROM SURFACE		ANNULAR MATERIAL TYPE (T)								FILTER PACK		
FROM (feet)	TO (feet)	NONE	CONCRETE	NEAT CEMENT OR CEMENT GROUT	CEMENT-BENTONITE GROUT	BENTONITE			IF OTHER TYPE OF ANNULAR MATERIAL, DESCRIBE	SAND	GRAVEL	SIZE
						GROUT	CHIPS	PELLETS				
									NONE			

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FEB 20 2008
WATER MGMT

SECTION 6. PROPOSED WELL ABANDONMENT DESIGN (Refer to ADWR'S Well Abandonment Handbook for additional information.)

DEPTH FROM SURFACE		Casing Treatment (if applicable)				DEPTH FROM SURFACE		Sealing or Fill Material									
FROM (feet)	TO (feet)	TYPE (T)				FROM (feet)	TO (feet)	GROUT TYPE (T)						SAND	MIXING RATIO by (check one) <input type="checkbox"/> Weight <input checked="" type="checkbox"/> Volume	ESTIMATED VOLUME OF MATERIAL (cubic feet)	
		SONAR JET	BRUSH OR SCRAPE	MILLS KNIFE	CASING REMOVAL (explain in Remarks)			IF OTHER TYPE, DESCRIBE OR IF CASING IS TO BE PERFORATED, DESCRIBE SPACING AND SIZE OF PERFORATIONS TO BE ADDED	NEAT CEMENT	CONCRETE	SAND-CEMENT GROUT	CEMENT-BENTONITE GROUT	SAND-BENTONITE GROUT				HIGH SOLIDS BENTONITE
					NONE	0	20	✓									3.3
						20	1,200										198.0
						1,200	1,500										15.0

<p>Proposed Abandonment Method (See Well Abandonment Handbook)</p> <p>CHECK ONE <input checked="" type="checkbox"/> Standard Method <input type="checkbox"/> Alternative 1 <input type="checkbox"/> Alternative 2 <input type="checkbox"/> Alternative 3 <input type="checkbox"/> Alternative 4 <input type="checkbox"/> Alternative 5 <input type="checkbox"/> Alternative 6 <input type="checkbox"/> Alternative 7 <input type="checkbox"/> Alternative 8 <input type="checkbox"/> Alternative 9 <input type="checkbox"/> Alternative 10 <input type="checkbox"/> Alternative 11 <input type="checkbox"/> Alternative 12 <input type="checkbox"/> Alternative 13 <input type="checkbox"/> Alternative 14 <input type="checkbox"/> Alternative 15 <input type="checkbox"/> Alternative 16 <input type="checkbox"/> Alternative 17 <input type="checkbox"/> Alternative 18 <input type="checkbox"/> Alternative 19 <input type="checkbox"/> Alternative 20 <input type="checkbox"/> Other (please specify):</p>	<p>Emplacement Method of Sealing or Fill Material</p> <p>CHECK ONE <input type="checkbox"/> Gravity <input type="checkbox"/> Pressure Grouting <input checked="" type="checkbox"/> Tremie Pumped <input type="checkbox"/> Other (please specify):</p>
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REMARKS

I state that this notice is filed in compliance with A.R.S. § 45-596 and is complete and correct to the best of my knowledge and belief.

TYPE OR PRINT NAME AND TITLE

Raymond E. Irwin, Senior Geologist

SIGNATURE OF WELL OWNER OR EXPLORATION FIRM

Raymond E. Irwin (For Freedom - Mc Moran)

SIGNATURE OF LANDOWNER, IF APPLICABLE (SEE INSTRUCTIONS)

Raymond E. Irwin (For Freedom - Mc Moran)

DATE

2/8/08

DATE

2/8/08

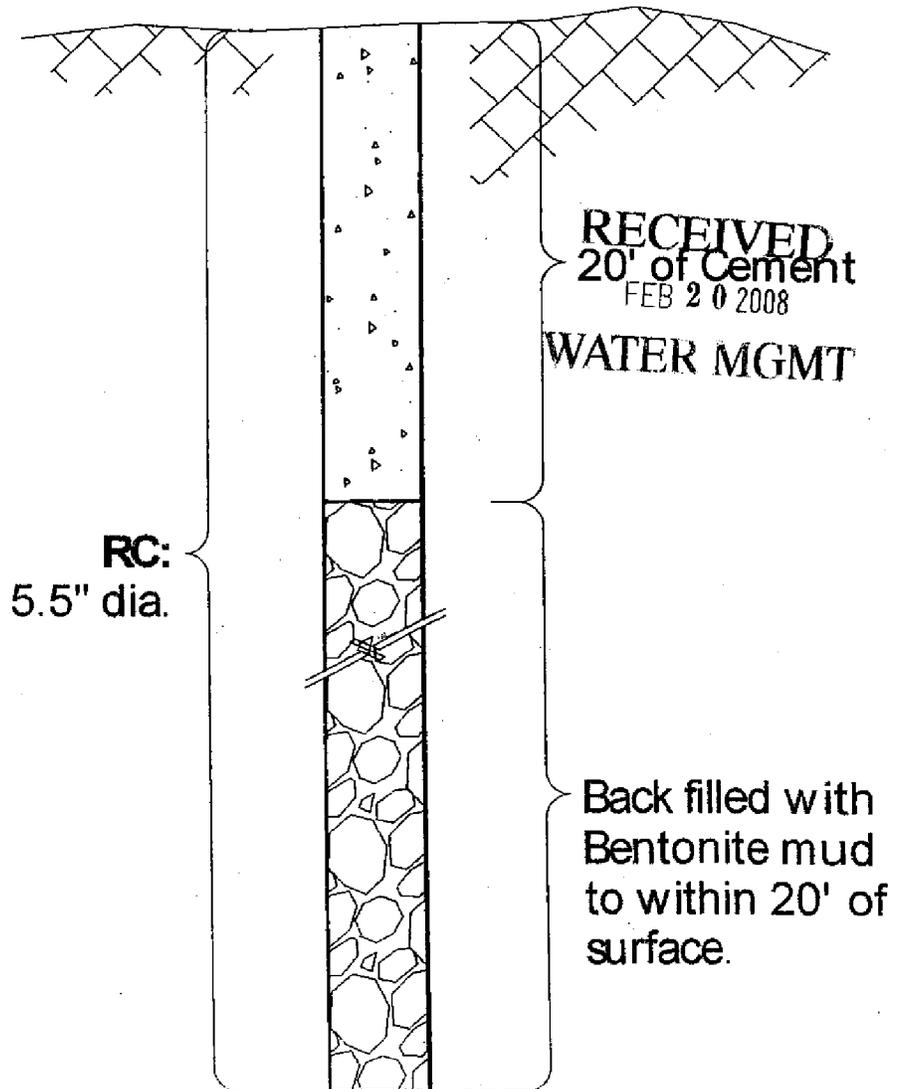
55.217422



"RC" Reverse Circulation Drill hole Well Construction Diagram

Depth of Drill holes
Varies;

Type of
Back Fill



RC:
5.5" dia.

RECEIVED
20' of Cement
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Back filled with
Bentonite mud
to within 20'
of surface.

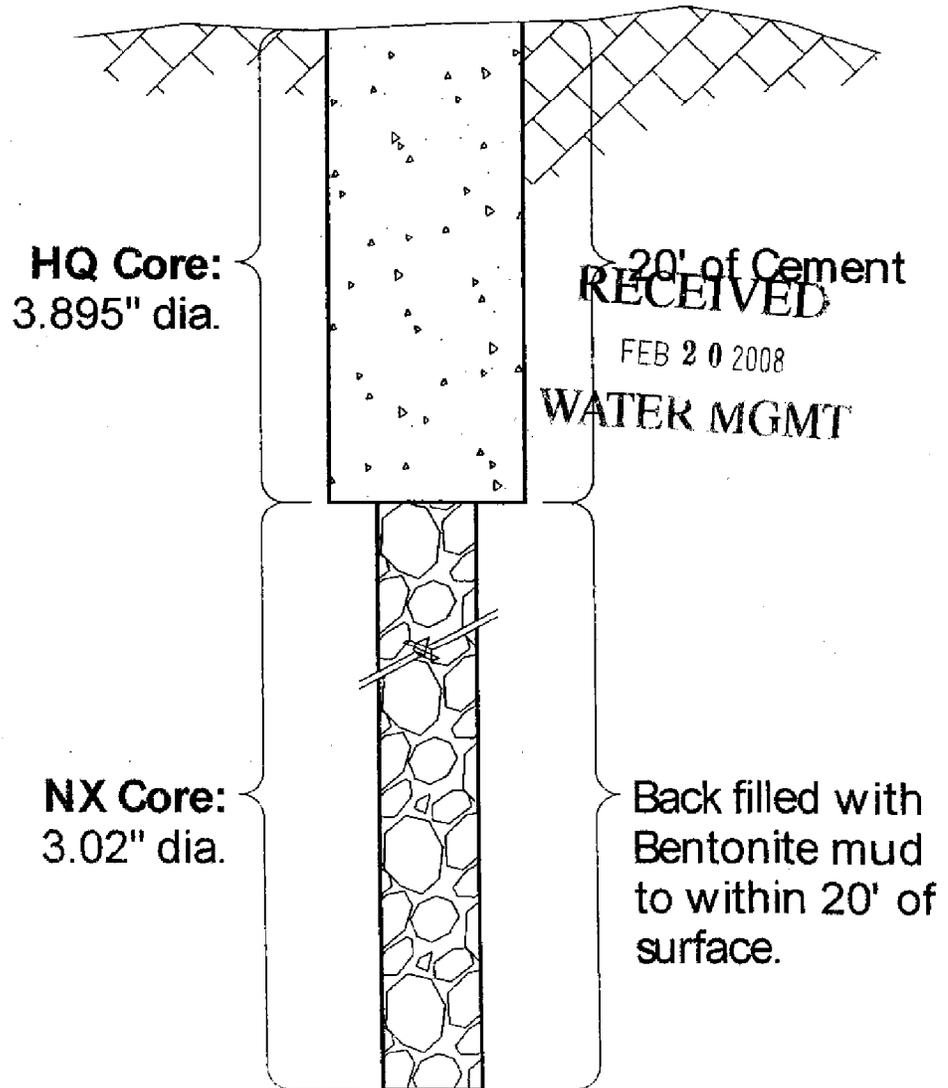
SS-217422



“Core” Drill hole Well Construction Diagram

Depth of Drill holes
Varies;

Type of
Back Fill



**ARIZONA DEPARTMENT OF WATER RESOURCES
WATER MANAGEMENT SUPPORT SECTION**

3550 N. Central Avenue
Phoenix, Arizona 85012

THIS AUTHORIZATION SHALL BE IN POSSESSION OF THE DRILLER DURING ALL DRILL OPERATIONS

WELL REGISTRATION NO: 55-217422

AUTHORIZED DRILLER: LAYNE CHRISTENSEN COMPANY

LICENSE NO: 7

NOTICE OF INTENTION TO DRILL A MINERAL EXPLORATION WELL(S) HAS BEEN FILED WITH THE DEPARTMENT BY:

WELL OWNER: FREEPORT-MCMORAN COPPER & GOLD INC 4521 US HWY 191 MORENCI, AZ 85540

THE WELL(S) IS/ARE TO BE LOCATED IN THE:

1/4 OF THE 1/4 OF THE 1/4 SECTION 32 TOWNSHIP 3 SOUTH RANGE 29 EAST

NO. OF WELLS IN THIS PROJECT: 100

THIS AUTHORIZATION EXPIRES AT MIDNIGHT ON THE 19TH DAY OF FEBRUARY, 2009

WATER MANAGEMENT SUPPORT

THE DRILLER MUST FILE A LOG OF THE WELL
WITHIN 30 DAYS OF COMPLETION OF DRILLING



ARIZONA DEPARTMENT OF WATER RESOURCES

3550 N. Central Avenue, Phoenix, Arizona 85012

Telephone (602) 771-8500

Fax (602) 771-8691

March 06, 2008



Janet Napolitano
Governor

Herbert R. Guenther
Director

FREEMPORT-MCMORAN COPPER & GOLD INC
4521 US HWY 191
MORENCI, AZ 85540

Registration No. 55-217422
File No. D(3-29) 32 000

Dear Well Owner:

Enclosed for your records is an annotated copy of the Notice of Intention to Drill (NOI) and Abandon an Exploration/Specialty Well, which you recently filed with this Department pursuant to A.R.S. § 45-596. This is to inform you that the Department has approved the NOI and has mailed a drilling card authorizing the drilling of the well to your designated well drilling contractor. The driller may not begin drilling until he has received the drilling card, which he must keep in his possession at the well site during drilling.

Well drilling activities must be completed within one year after the date the NOI was filed with the Department. If drilling is not completed within one year, you must file a new NOI before proceeding with further drilling. If it is necessary to change the location of the proposed well, you may not proceed with drilling until you file an amended NOI with the Department. A properly amended drilling card will then be issued and must be in the possession of the well drilling contractor before drilling begins.

If this well is being drilled as a heat pump, cathodic protection, or grounding well, or for exploration purposes, our standard Well Driller Report and Well Log form (DWR form 55-55) will be furnished to the well drilling contractor. If this well is being drilled as a mineral exploration well, a Project Completion Report (DWR form 55-57) will be furnished to the well drilling contractor. These forms must be filed with the Department within 30 days after completion of the well. A Pump Installation Completion Report form (DWR form 55-56) is being furnished to the well owner if pump installation is authorized. This must be completed within 30 days of installing a pump as required by A.R.S. § 45-600. During the drilling of a new well, if it is determined that it must be abandoned, then a Well Abandonment Completion Report (DWR form 55-58) must be submitted per R12-15-816(F).

Please be advised that A.R.S. § 45-593(C) requires the person to whom a well is registered to notify the Department of a change of ownership of the well and/or information pertaining to the physical characteristics of the well, in order to keep the well registration file current and accurate. Any change in well information or a request to change well driller must be filed on a Request to Change Well Information form (DWR form 55-71A), which is enclosed for your future use.

Sincerely,

Natasha Conner
NOI Unit
Water Management Support Section

Enclosures



Printed on recycled paper. Each ton of recycled paper saves 7,000 gallons of water.

Arizona Department of Water Resources

3550 N Central Ave
Phoenix AZ 85012

FREEPORT-MCMORAN
COPPER & GOLD
4521 US HWY 191
MORENCI.AZ 85540
928-865-6270

Date: 2/20/2008
Cashier: WRPAB
Type: Mail

RECEIVED
FEB 20 2008
WATER MGMT

DCS/INV#	DESCRIPTION	ATTR	SIZE	QTY	PRICE	EXT PRICE
F 72	4439-06 NOTICE OF INTENT TO DRILL WELL	15245		34	150.00	5,100.00
			1 Unit(s)		Subtotal:	5,100.00
					RECEIPT TOTAL:	5,100.00
					Tendered:	5,100.00

Check #: 5,100.00 # 049394

FREEPORT-MCMORAN
WELL OWNER