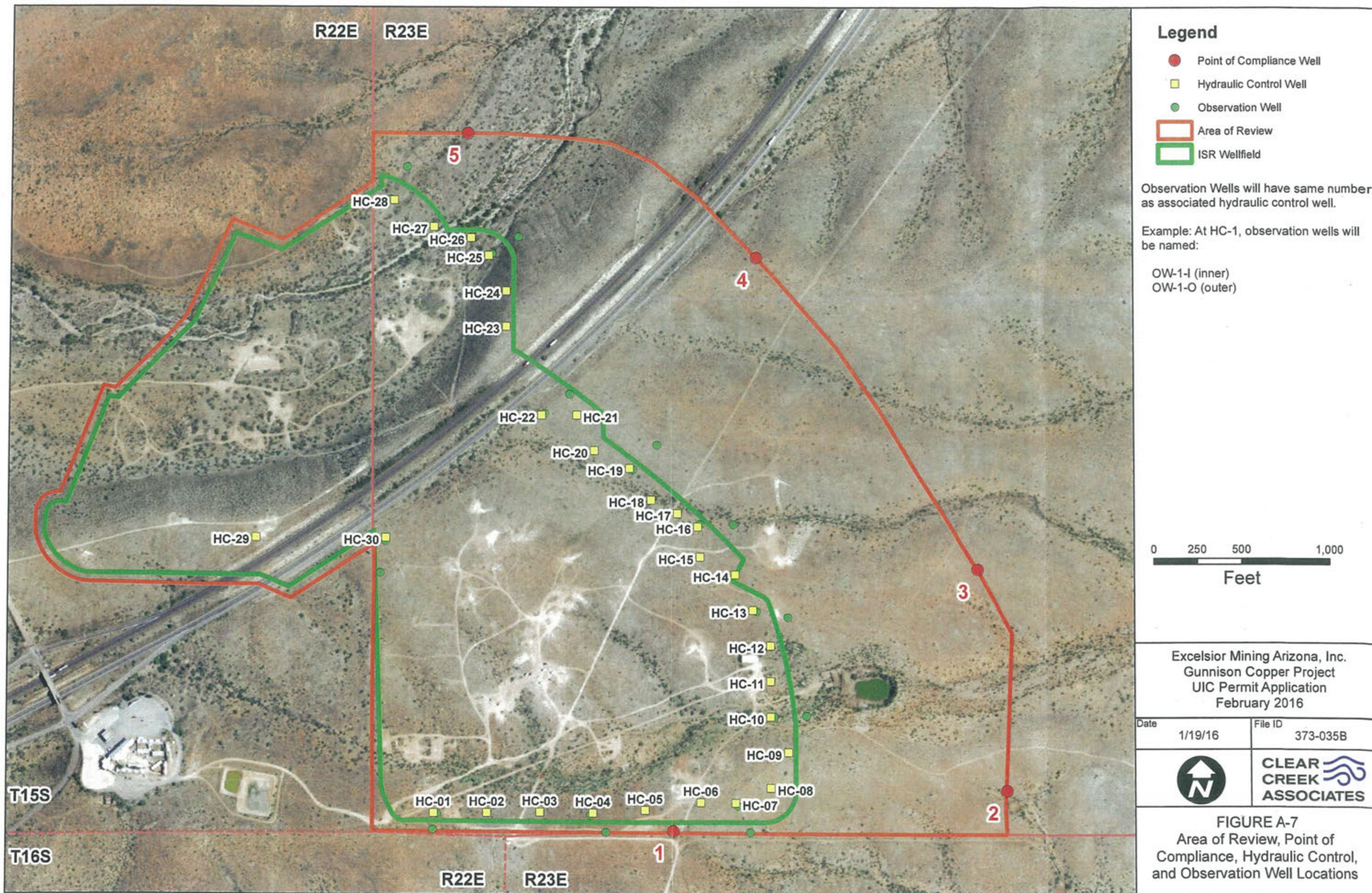
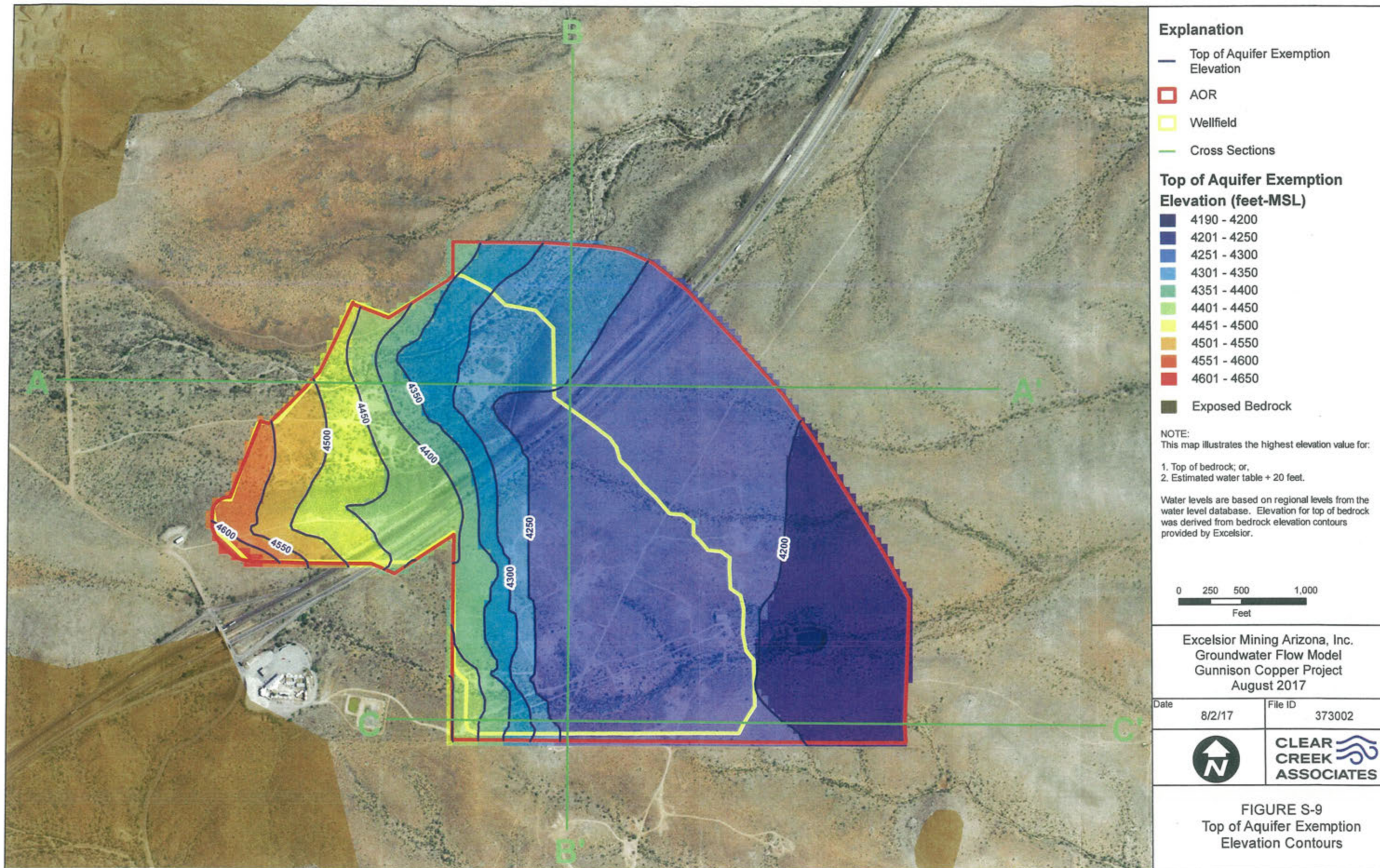
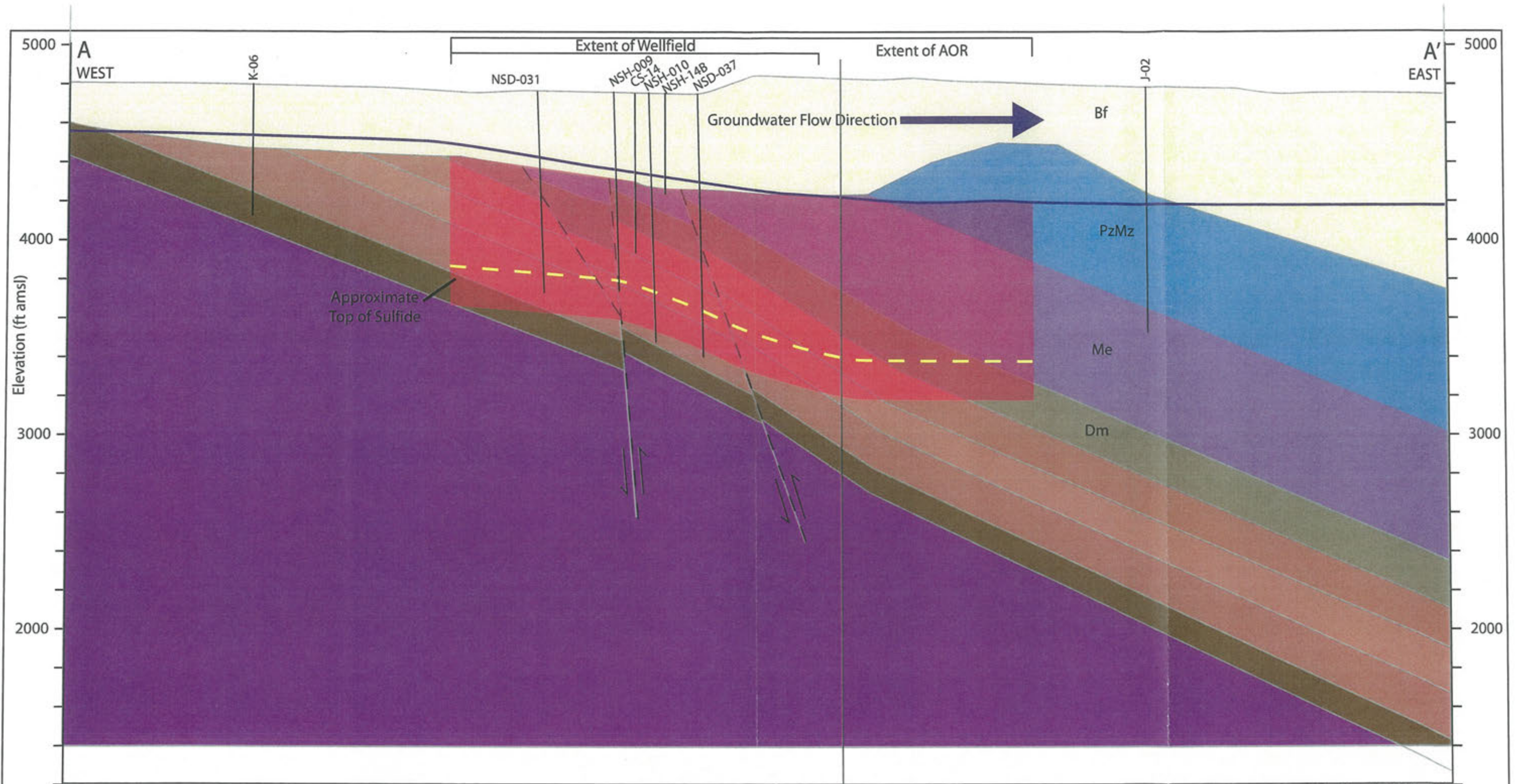


## **APPENDIX A**

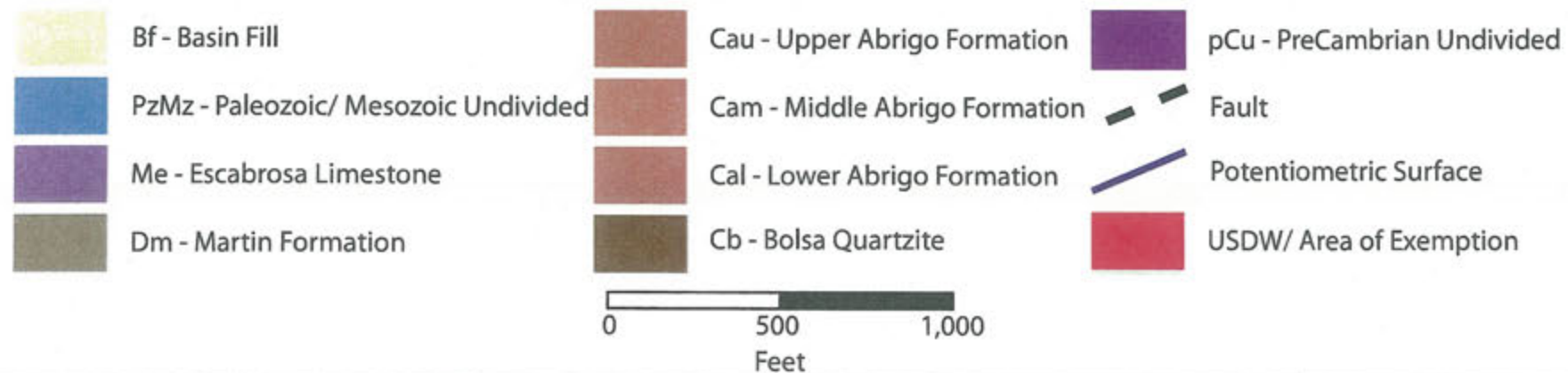
### **Project Maps, Aquifer Exemption Delineation, and Well Locations**







Source: Excelsior Geologic Model

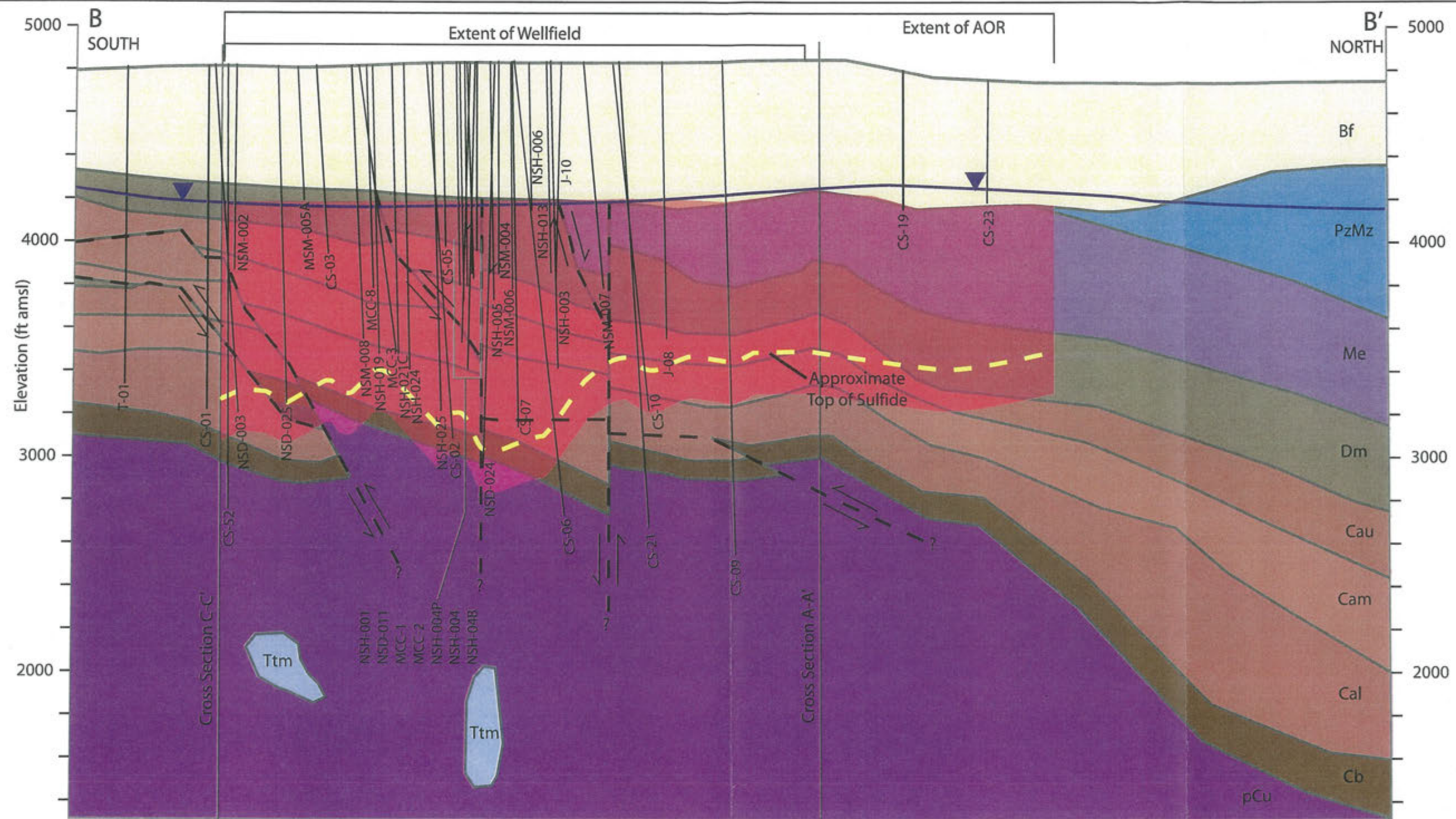


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February 2016  
Revision November 2016

**CLEAR CREEK ASSOCIATES**

|         |           |
|---------|-----------|
| Date    | 3/3/17    |
| File ID | A373-010C |

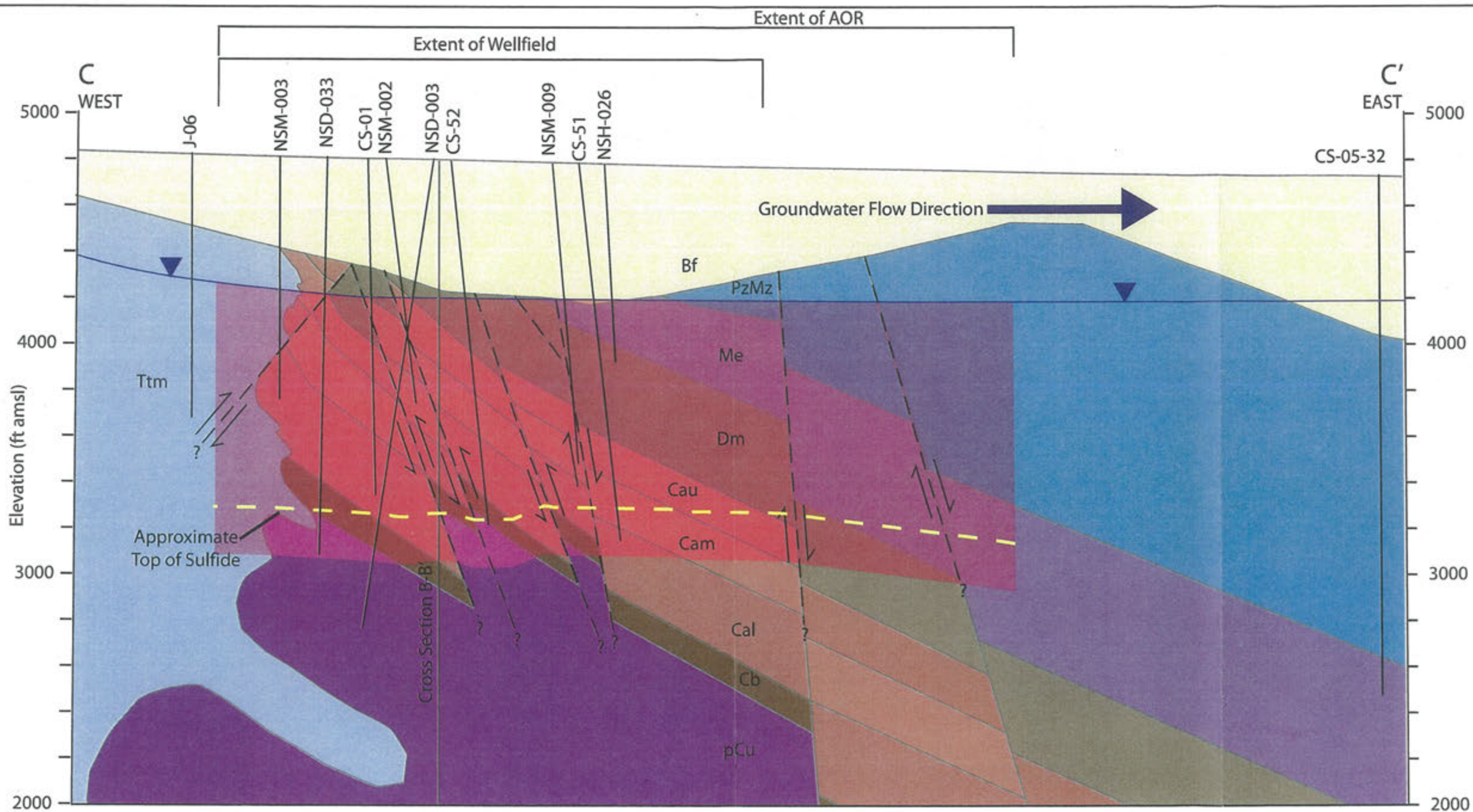
FIGURE D-3  
Geologic Cross Section A - A'



Source: Excelsior Geologic Model



|                                                                                                                                |  |                      |
|--------------------------------------------------------------------------------------------------------------------------------|--|----------------------|
| Excelsior Mining Arizona, Inc.<br>Gunnison Copper Project<br>UIC Permit Application<br>February 2016<br>Revision November 2016 |  | Date<br>3/3/17       |
|                                                                                                                                |  | File ID<br>A373-011C |
| FIGURE D-4<br>Geologic Cross Section B-B'                                                                                      |  |                      |



Source: Excelsior Geologic Model

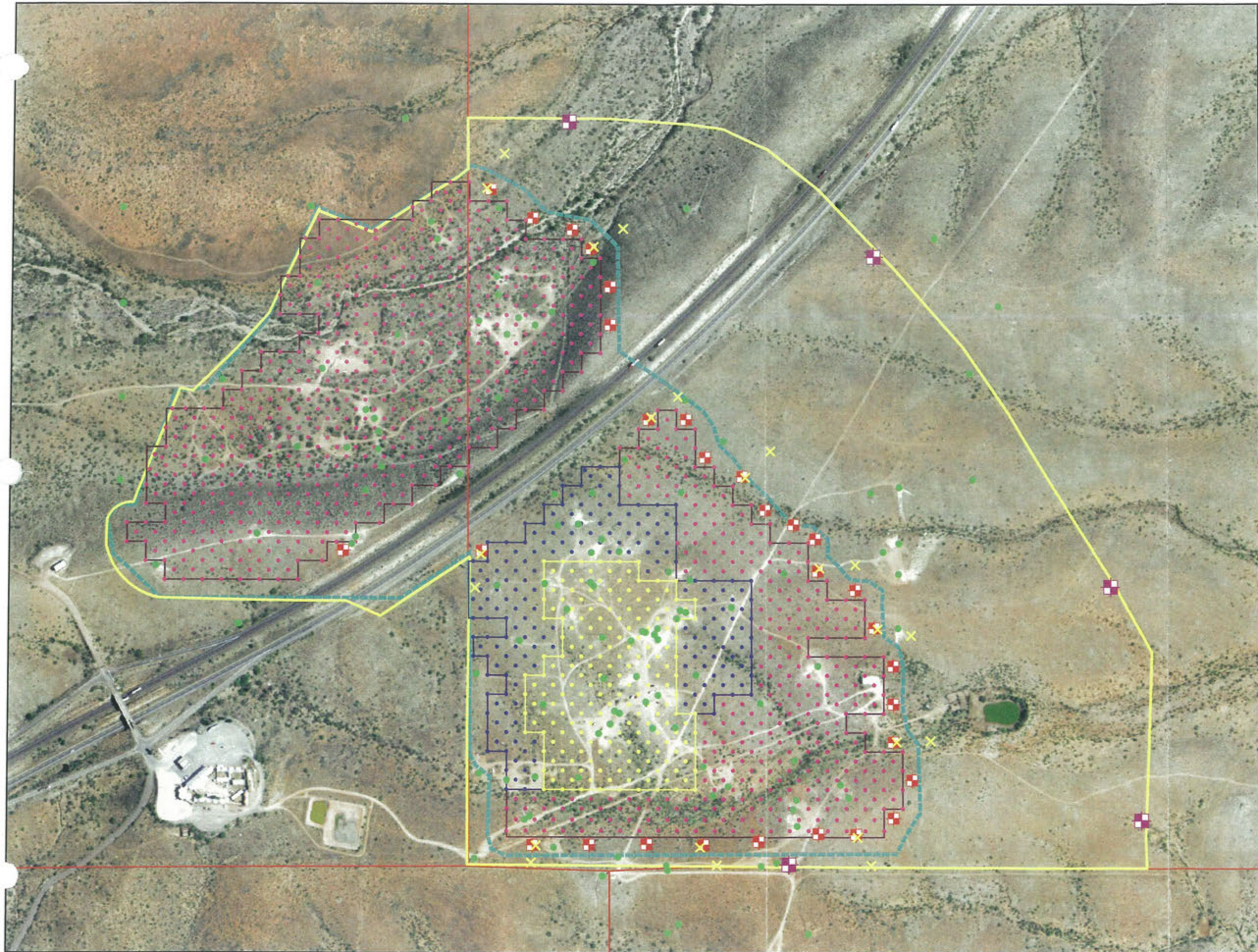


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Revision November 2016

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|         |           |
|---------|-----------|
| Date    | 3/3/17    |
| File ID | A373-012D |

FIGURE D-5  
Geologic Cross Section C - C'



## Explanation

- HC Observation Wells
- POCs
- Hydraulic Control Wells
- Stage 1 Mining Wells
- Stage 2 Mining Wells
- Stage 3 Mining Wells
- Wells and Borings
- Wellfield
- Stage 1 Mining Area
- Stage 3 Mining Area
- Stage 2 Mining Area
- Township
- AOR Boundary

0 125 250 500 750 1,000  
Feet

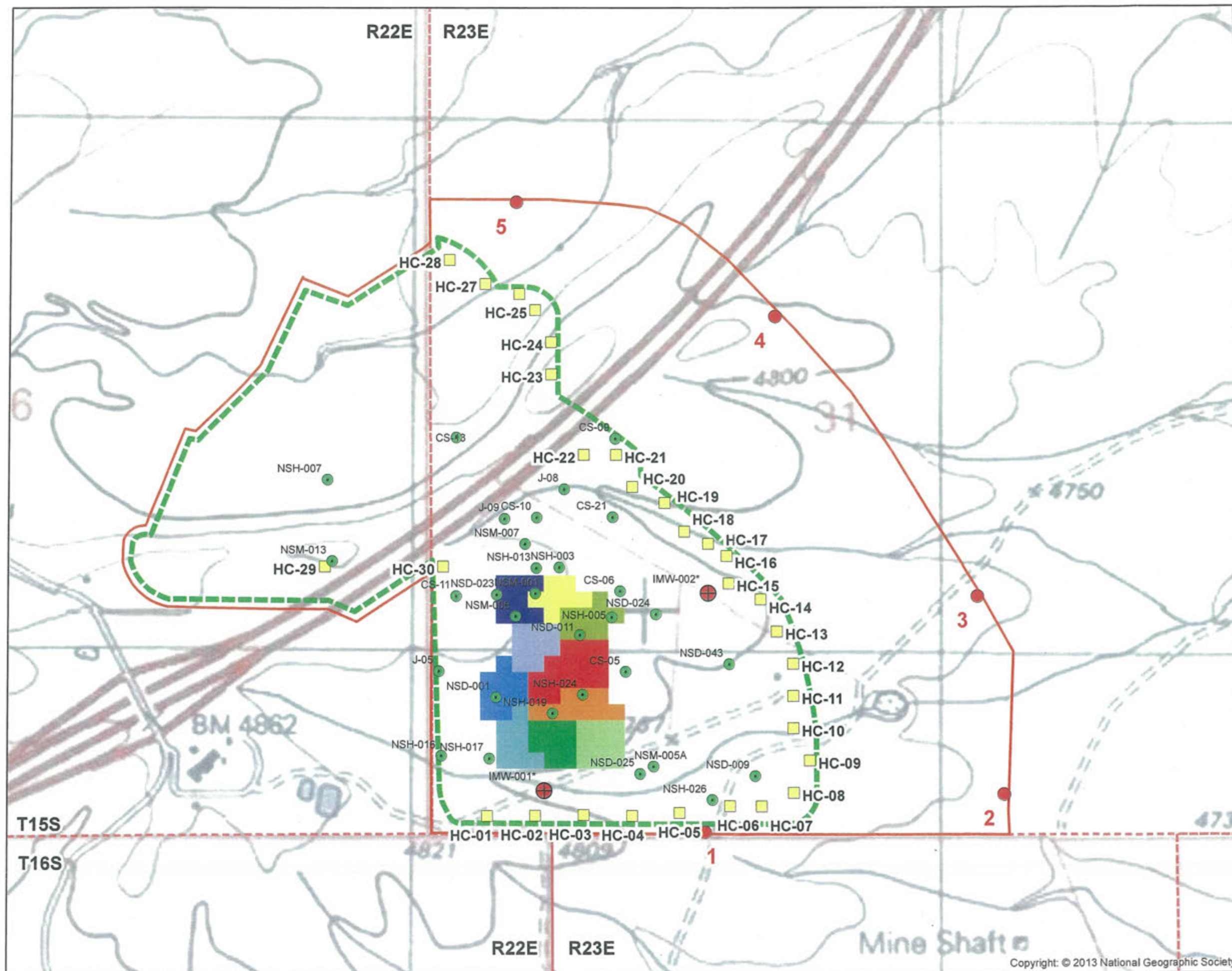
Excelsior Mining Arizona, Inc.  
Groundwater Flow Model  
Gunnison Copper Project  
November 2016

|      |          |         |        |
|------|----------|---------|--------|
| Date | 11/11/16 | File ID | 373002 |
|------|----------|---------|--------|



**CLEAR  
CREEK  
ASSOCIATES**

**FIGURE A-7A**  
Well Locations  
Mining Stages 1 to 3



## Legend

- Area of Review
- ISR Wellfield
- POC-Wellfield
- Hydraulic Control Well
- Existing IMWs
- IMWs to be installed

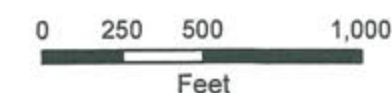
## Mine Blocks

- Year 1
- Year 2
- Year 3
- Year 4
- Year 5
- Year 6
- Year 7
- Year 8
- Year 9
- Year 10

Observation Wells will have same number as associated hydraulic control well.

Example: At HC-1, observation wells will be named:

OW-1-I (inner)  
OW-1-O (outer)



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February 2016  
Revised March 2017

Date 3/28/17

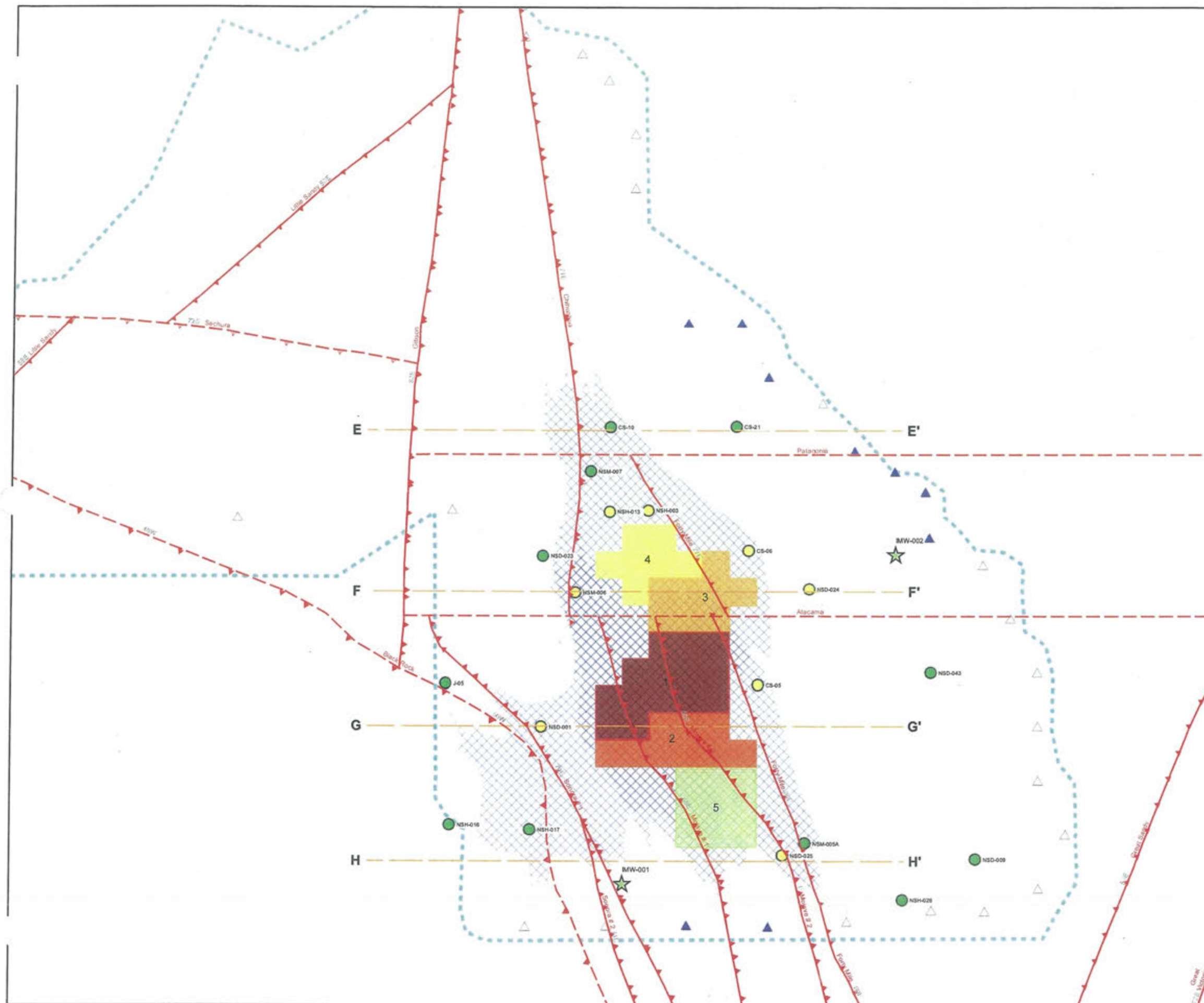
File ID 373-068



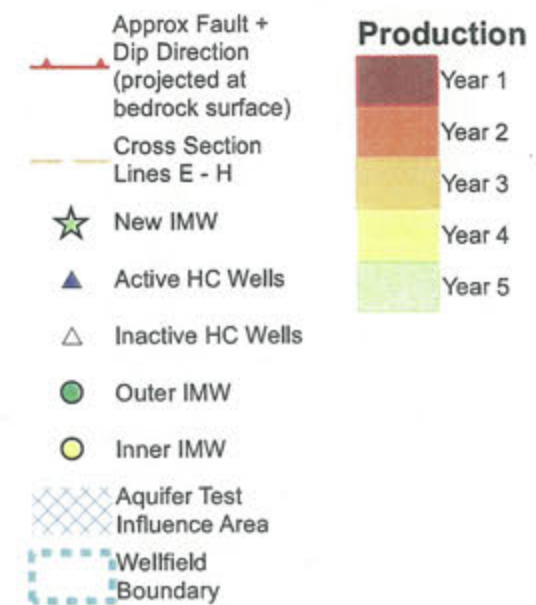
**CLEAR  
CREEK  
ASSOCIATES**

**FIGURE A-8**  
Intermediate Monitor Well Network  
Stage 1 and 2 Operations  
Gunnison Copper Project





## Legend



370 185 0 370 Feet

**Excelsior**  
MINING CORP

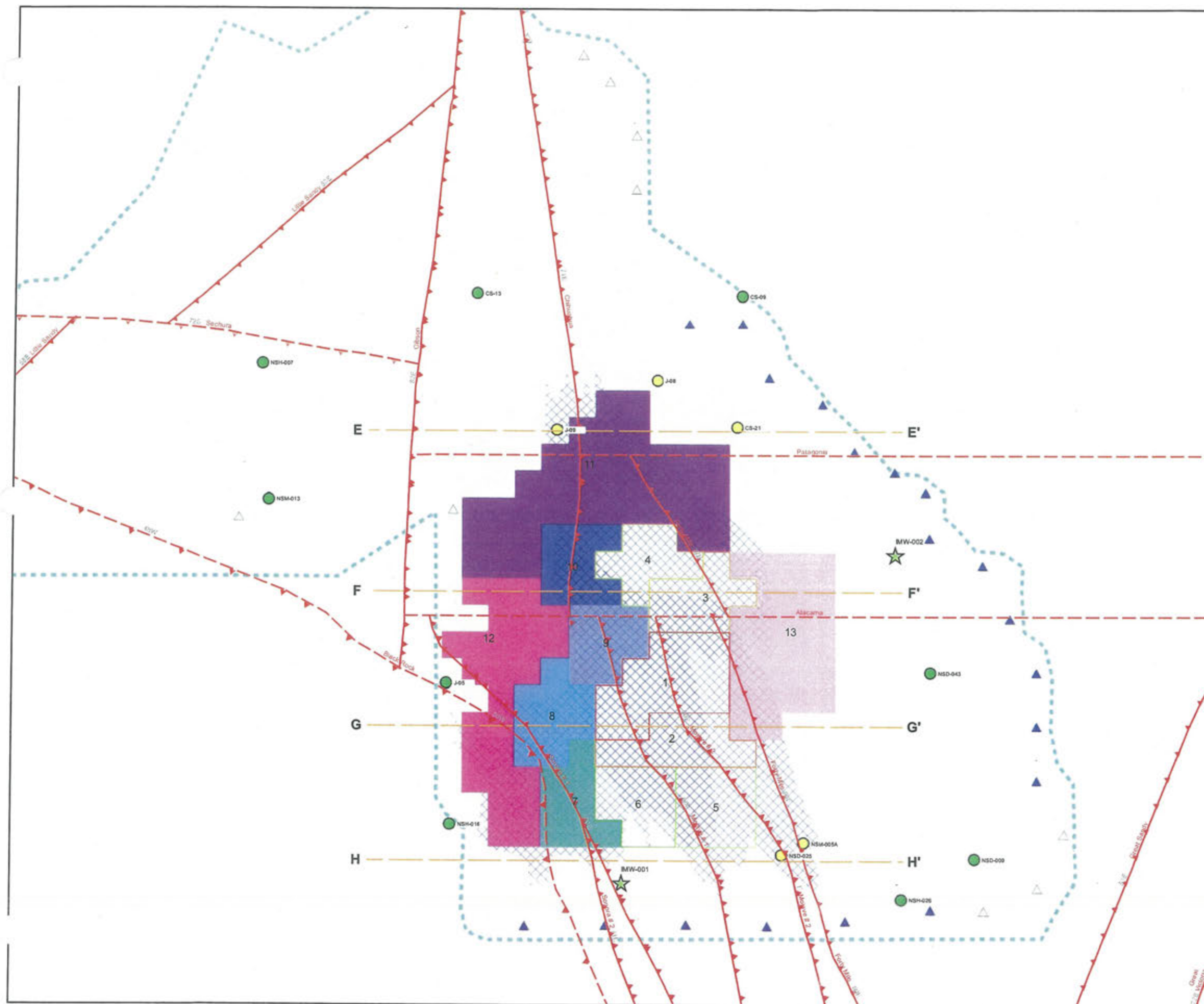
Excelsior Mining Arizona Inc.  
Gunnison Copper Project  
Date: 2/20/2017



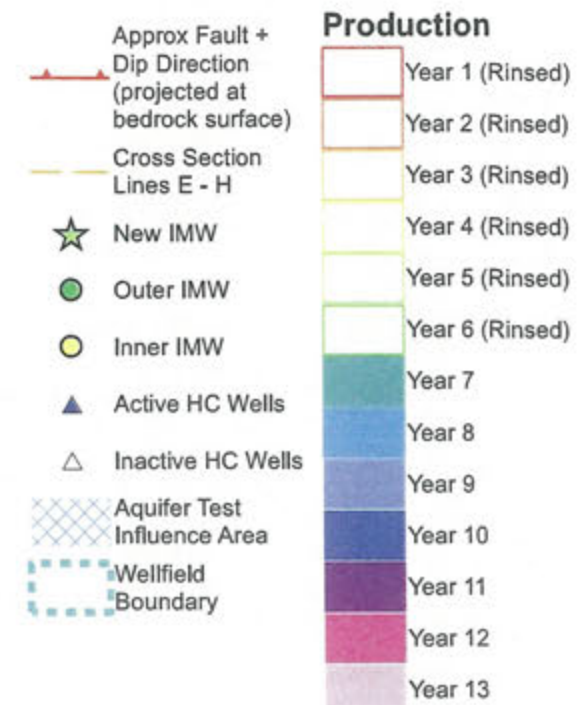
Coordinate System: NAD 1983  
StatePlane Arizona East FIPS 0201  
Feet

**FIGURE A-14**  
**INTERMEDIATE MONITORING WELL**  
**LOCATIONS: YEAR 5**





## Legend



370 185 0 370 Feet

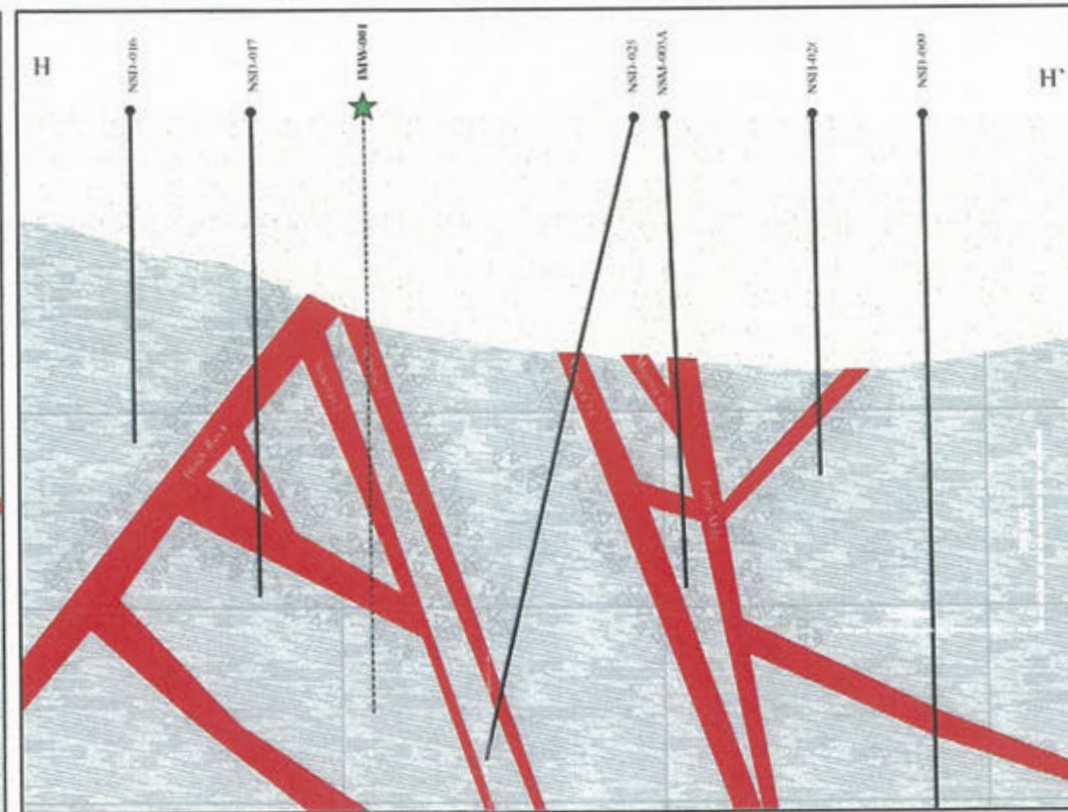
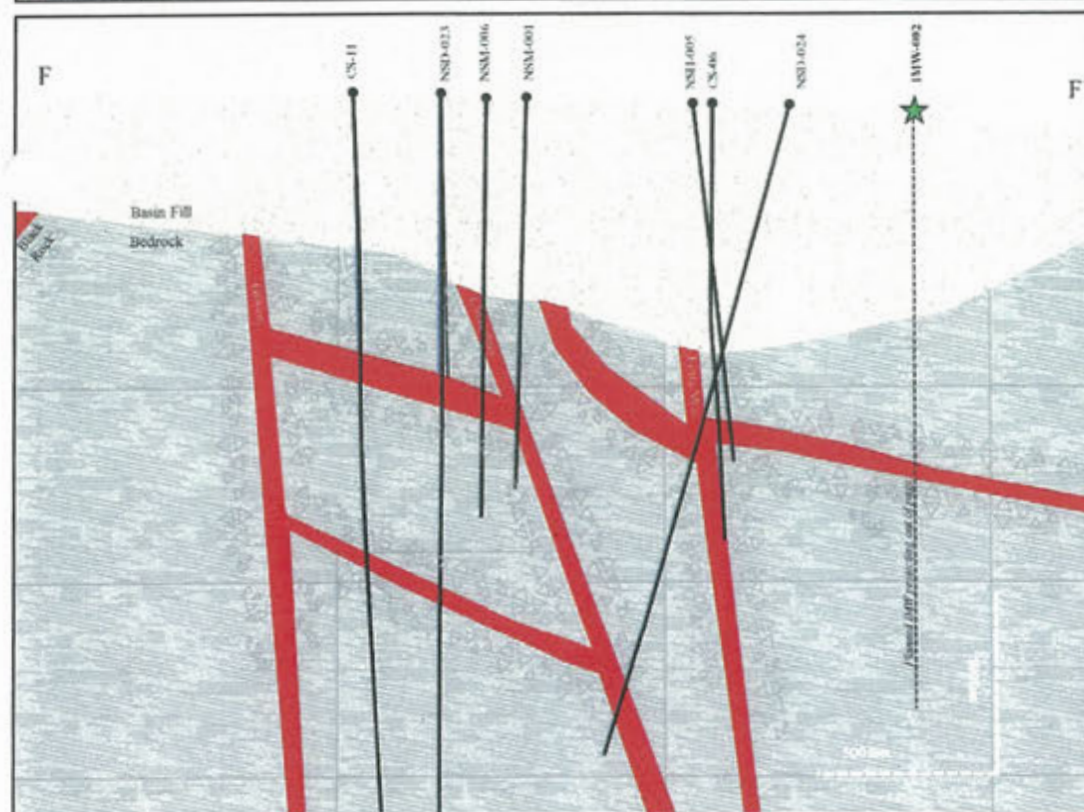
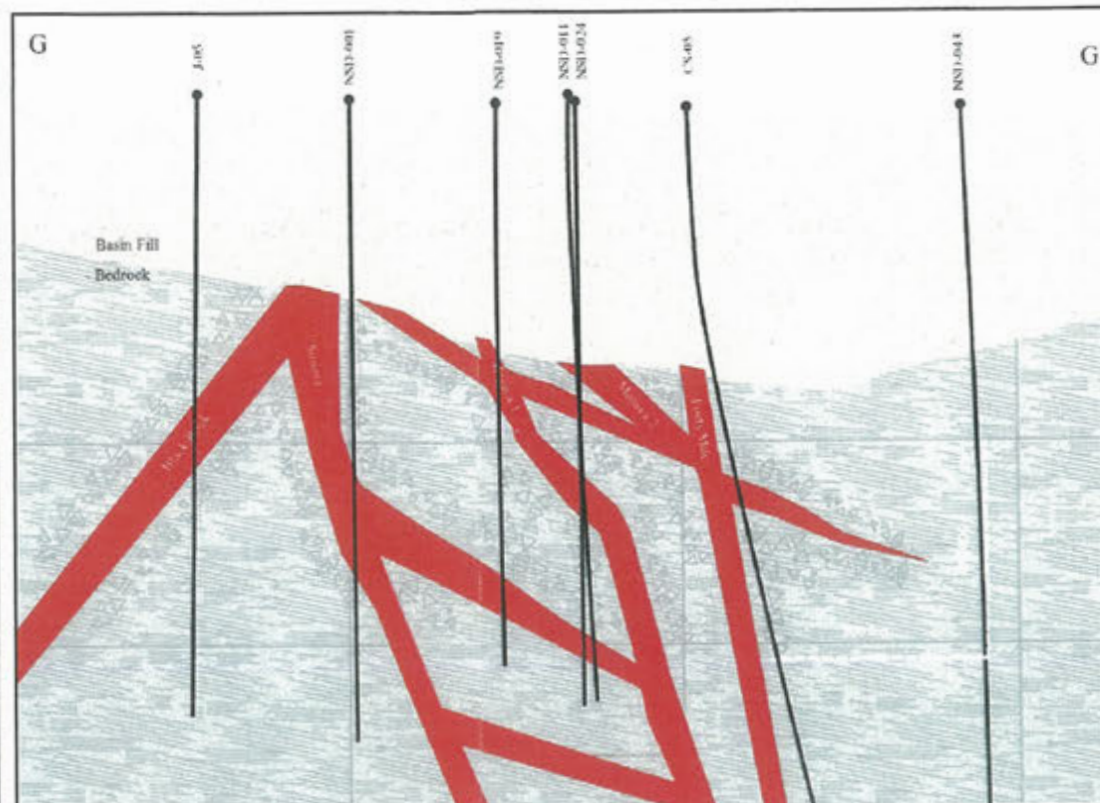
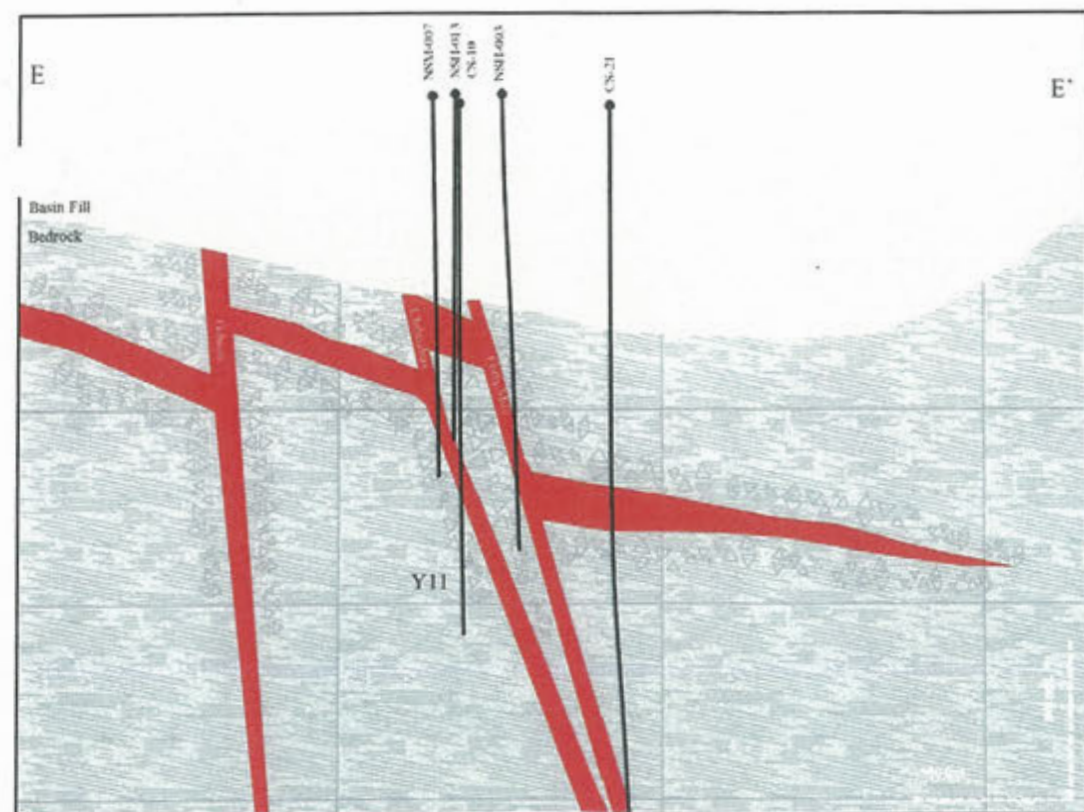
**Excelsior**  
MINING CORP

Excelsior Mining Arizona Inc.  
Gunnison Copper Project  
Date: 2/20/2017



Coordinate System: NAD 1983  
StatePlane Arizona East FIPS 0201  
Feet

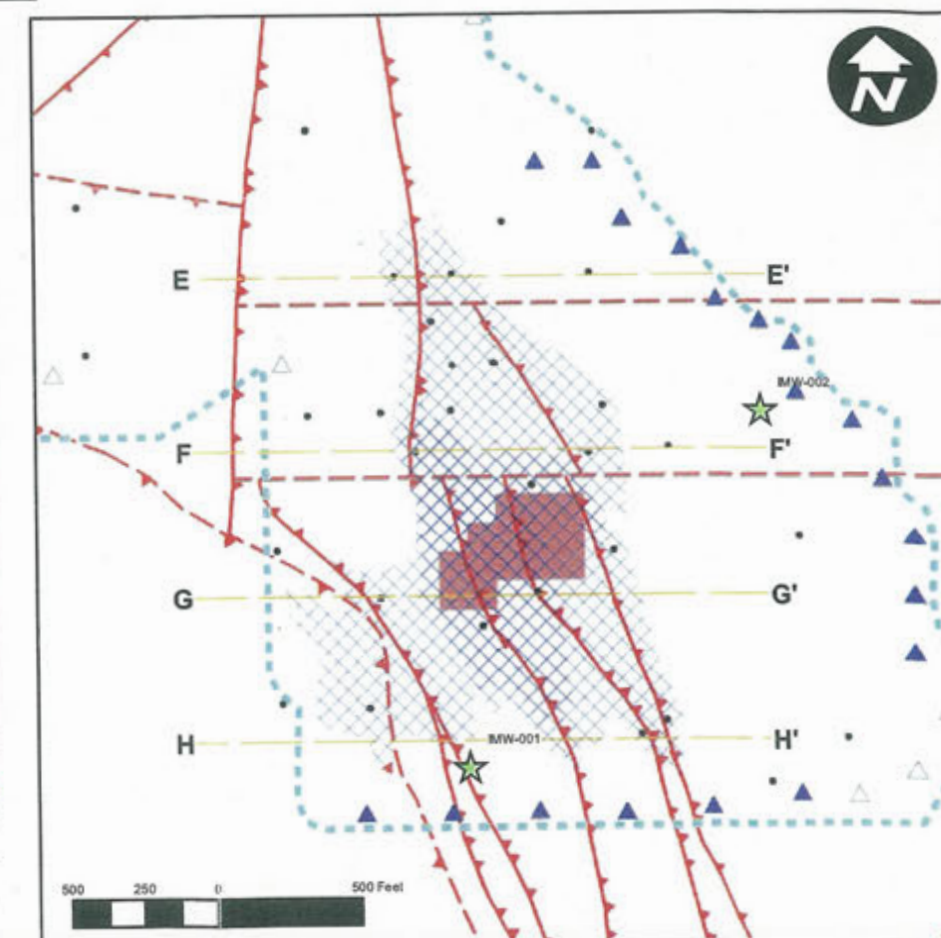
**FIGURE A-16**  
**INTERMEDIATE MONITORING WELL**  
**LOCATIONS: YEAR 13**



**Excelsior**  
MINING CORP

Excelsior Mining Arizona Inc.  
Gunnison Copper Project  
Date Revised: 2/20/2017

Coordinate System: NAD 1983 StatePlane  
Arizona East FIPS 0201 Feet



# Legend



IMW

Pump Test Influence

Wellfield Boundary

Cross Section Lines E - H

Active HC Wells

Inactive HC Wells

Approx Fault + Dip Direction  
(Faults projected at bedrock surface)

Production

Year 1

Overburden

Bedrock



Fault Zone



Fractured Bedrock



IMW



New IMW

**FIGURE A-17**  
**INTERMEDIATE MONITORING WELL**  
**LOCATIONS - CROSS SECTIONS E-F**

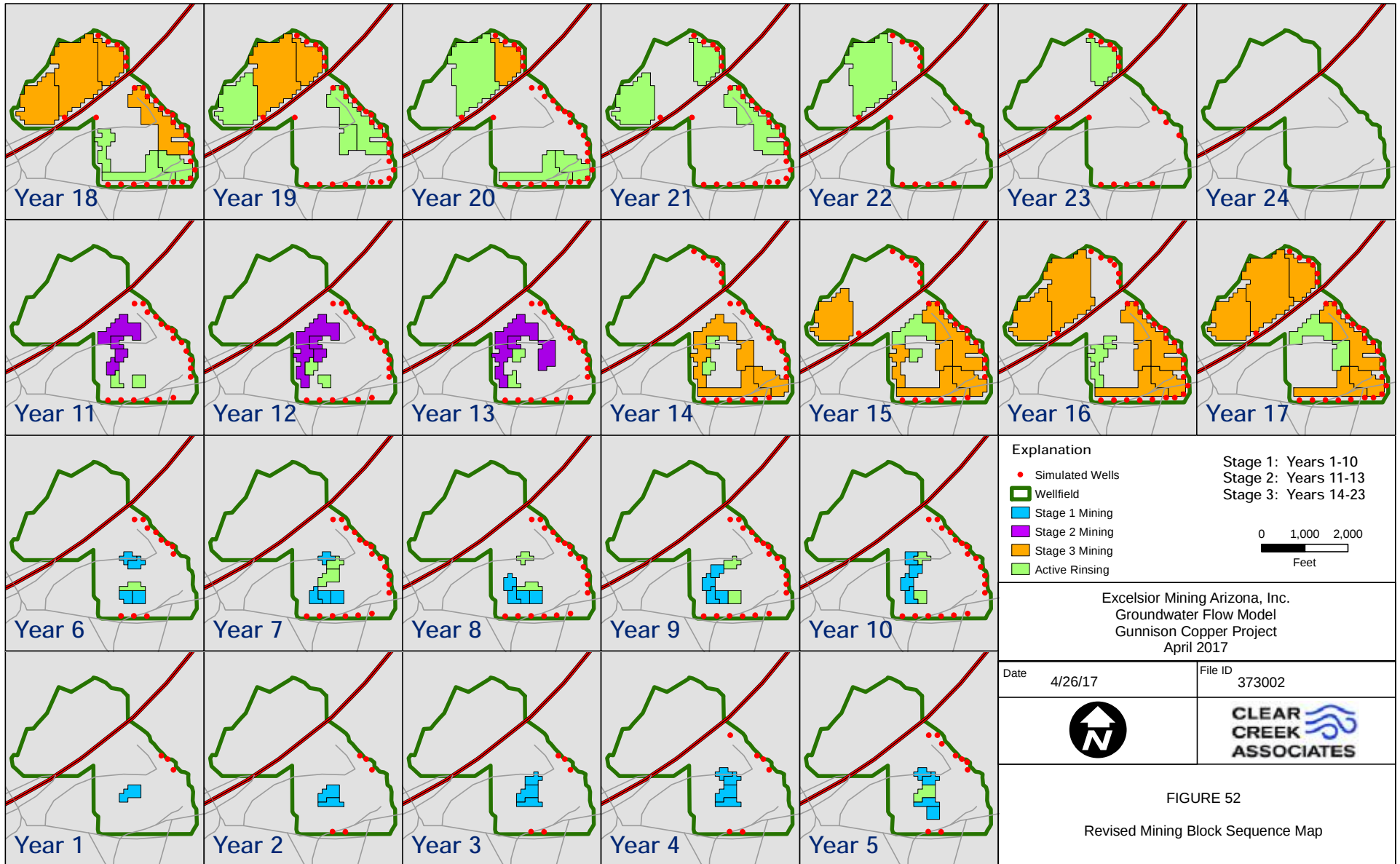


Table A-1: Intermediate Monitoring Well Activity by Production Year

| Intermediate Monitoring Well Activity By Production |                                      |         |     |                       |            |              |               |                                 |    |    |           |    |    |                    |    |    |     |     |     |     |     |     |           |                        |                      |
|-----------------------------------------------------|--------------------------------------|---------|-----|-----------------------|------------|--------------|---------------|---------------------------------|----|----|-----------|----|----|--------------------|----|----|-----|-----|-----|-----|-----|-----|-----------|------------------------|----------------------|
| Generated: 2/9/2017                                 |                                      |         |     |                       |            |              |               |                                 |    |    |           |    |    |                    |    |    |     |     |     |     |     |     |           |                        |                      |
|                                                     |                                      |         |     |                       |            |              |               | IMW Activity by Production Year |    |    |           |    |    |                    |    |    |     |     |     |     |     |     |           |                        |                      |
|                                                     |                                      |         |     |                       |            |              |               | Outer IMW                       |    |    | Inner IMW |    |    | IMW Year Abandoned |    |    |     |     |     |     |     |     |           |                        |                      |
|                                                     | HOLEID                               | Azimuth | Dip | Collar Elevation (ft) | Depth (ft) | Lat          | Long          | Y1                              | Y2 | Y3 | Y4        | Y5 | Y6 | Y7                 | Y8 | Y9 | Y10 | Y11 | Y12 | Y13 | Y14 | Y15 | Screened  | Screen Depth From (ft) | Screen Depth To (ft) |
| 1                                                   | NSH-019                              | 0       | -90 | 4813.772              | 1410       | 32.0815879°  | -110.0407889° | I                               | A  |    |           |    |    |                    |    |    |     |     |     |     |     |     | Open Hole | 638                    | 1410                 |
| 2                                                   | NSH-024                              | 0       | -90 | 4829.07               | 1445       | 32.0819062°  | -110.0408590° | I                               | A  |    |           |    |    |                    |    |    |     |     |     |     |     |     | Open Hole | 625                    | 1445                 |
| 3                                                   | NSD-011                              | 0       | -90 | 4834.35               | 1438       | 32.0829234°  | -110.0429129° | I                               | I  | A  |           |    |    |                    |    |    |     |     |     |     |     |     | N         | 645                    | 1438                 |
| 4                                                   | NSH-005                              | 0       | -90 | 4829.83               | 1040       | 32.0831251°  | -110.0423864° | I                               | I  | A  |           |    |    |                    |    |    |     |     |     |     |     |     | Y         | 747                    | 1019                 |
| 5                                                   | NSM-001                              | 0       | -90 | 4850.525              | 1150       | 32.0836395°  | -110.0437963° | O                               | O  | I  | A         |    |    |                    |    |    |     |     |     |     |     |     | N         | 575                    | 1150                 |
| 6                                                   | NSD-001                              | 0       | -90 | 4827.17               | 1506       | 32.0838639°  | -110.0448091° | I                               | I  | I  | I         | I  | I  | I                  | I  | A  |     |     |     |     |     |     | N         | 458                    | 1506                 |
| 7                                                   | NSD-023*                             | 180     | -70 | 4857.306              | 1546       | 32.0836150°  | -110.0445842° | O                               | O  | O  | O         | O  | O  | O                  | O  | I  | A   |     |     |     |     |     | N         | 557                    | 1546                 |
| 8                                                   | NSM-006                              | 0       | -90 | 4847.479              | 1217       | 32.0832435°  | -110.0443972° | I                               | I  | I  | I         | I  | I  | I                  | I  | I  | A   |     |     |     |     |     | N         | 541                    | 1217                 |
| 9                                                   | CS-10                                | 0       | -90 | 4828.54               | 1656       | 32.0849309°  | -110.0437087° | O                               | O  | O  | O         | O  | O  | O                  | O  | O  | O   | A   |     |     |     |     | N         | 730                    | 1656                 |
| 10                                                  | CS-11                                | 0       | -90 | 4863.12               | 2084       | 32.0835918°  | -110.0454011° | O                               | O  | O  | O         | O  | O  | O                  | O  | O  | I   | A   |     |     |     |     | N         | 481                    | 2084                 |
| 11                                                  | NSH-003                              | 0       | -90 | 4846.072              | 1432       | 32.0840811°  | -110.0438867° | O                               | O  | O  | I         | I  | I  | I                  | I  | I  | A   |     |     |     |     |     | Y         | 1232                   | 1399                 |
| 12                                                  | NSH-013                              | 0       | -90 | 4850.415              | 1070       | 32.0840678°  | -110.0417796° | O                               | O  | I  | I         | I  | I  | I                  | I  | I  | A   |     |     |     |     |     | Open Hole | 650                    | 1070                 |
| 13                                                  | NSM-007                              | 0       | -90 | 4844.188              | 1168       | 32.0848059°  | -110.0440050° | O                               | O  | O  | O         | O  | O  | O                  | O  | O  | O   | A   |     |     |     |     | N         | 600                    | 1168                 |
| 14                                                  | NSH-017                              | 0       | -90 | 4806.813              | 1181       | 32.0808221°  | -110.0447493° | O                               | O  | O  | O         | O  | O  | I                  | I  | I  | I   | A   |     |     |     |     | Y         | 940                    | 1181                 |
| 15                                                  | CS-05                                | 0       | -90 | 4817.75               | 2034       | 32.0822957°  | -110.0429998° | I                               | I  | I  | I         | I  | I  | I                  | I  | I  | I   | A   |     |     |     |     | N         | 645                    | 2034                 |
| 16                                                  | CS-06                                | 0       | -90 | 4831.4                | 2160       | 32.0836701°  | -110.0423043° | O                               | O  | I  | I         | I  | I  | I                  | I  | I  | I   | A   |     |     |     |     | N         | 718                    | 2160                 |
| 17                                                  | NSD-024*                             | 270     | -70 | 4823.291              | 1972       | 32.0832797°  | -110.0413848° | I                               | I  | I  | I         | I  | I  | I                  | I  | I  | I   | A   |     |     |     |     | N         | 750                    | 1972                 |
| 17.5                                                | IMW-001*                             | 270     | -70 | 4798                  | 1600*      | 32.08021743° | -110.0436410° | O                               | O  | O  | O         | O  | O  | O                  | O  | O  | O   | O   | O   | O   | A   |     | N (?)     | 600 (approx)           | 1600 (approx)        |
| 18                                                  | NSD-009                              | 0       | -90 | 4788.19               | 1793       | 32.0805145°  | -110.0389900° | O                               | O  | O  | O         | O  | O  | O                  | O  | O  | O   | O   | O   | A   |     |     | N         | 620                    | 1793                 |
| 19                                                  | NSD-025*                             | 270     | -70 | 4789.8                | 1644       | 32.0809125°  | -110.0437148° | O                               | O  | O  | O         | I  | I  | I                  | I  | I  | I   | I   | A   |     |     |     | N         | 637                    | 1644                 |
| 20                                                  | NSH-026                              | 0       | -90 | 4794.091              | 905        | 32.0819062°  | -110.0428900° | O                               | O  | O  | O         | O  | O  | O                  | O  | O  | O   | O   | O   | A   |     |     | Open Hole | 625                    | 905                  |
| 21                                                  | NSM-005A                             | 0       | -90 | 4786.902              | 1172       | 32.0806787°  | -110.0416465° | O                               | O  | O  | O         | O  | O  | I                  | I  | I  | I   | I   | A   |     |     |     | N         | 592                    | 1172                 |
| 22                                                  | CS-21                                | 0       | -90 | 4809.94               | 2171       | 32.0849350°  | -110.0420414° | O                               | O  | O  | O         | O  | O  | O                  | O  | O  | O   | I   | I   | I   | A   |     | N         | 688                    | 2171                 |
| 23                                                  | NSD-043                              | 0       | -90 | 4802.365              | 1736       | 32.0824201°  | -110.0399104° | O                               | O  | O  | O         | O  | O  | O                  | O  | O  | O   | O   | O   | A   |     |     | N         | 630                    | 1736                 |
| 23.5                                                | IMW-002* <sup>a</sup>                | 180     | -70 | 4800                  | 1600*      | 32.0836398°  | -110.0401075° | O                               | O  | O  | O         | O  | O  | O                  | O  | O  | O   | O   | O   | A   |     |     | N (?)     | 750 (approx)           | 1600 (approx)        |
| 24                                                  | J-05                                 | 0       | -90 | 4836.75               | 1475       | 32.0823110°  | -110.0457580° | O                               | O  | O  | O         | O  | O  | O                  | O  | O  | O   | O   | O   | O   |     |     | N         | 415                    | 1475                 |
| 25                                                  | NSH-016                              | 0       | -90 | 4812.227              | 820        | 32.0808986°  | -110.0457047° | O                               | O  | O  | O         | O  | O  | O                  | O  | O  | O   | O   | O   | O   |     |     | Y         | 301                    | 701                  |
| 26                                                  | CS-09                                | 0       | -90 | 4832.68               | 2337       | 32.0862792°  | -110.0421815° |                                 |    |    |           |    |    |                    |    |    |     |     | O   | O   | O   |     | N         | 685                    | 2337                 |
| 27                                                  | CS-13                                | 0       | -90 | 4767.88               | 1251       | 32.0863042°  | -110.0453848° |                                 |    |    |           |    |    |                    |    |    |     |     | O   | O   | O   |     | N         | 462                    | 1251                 |
| 28                                                  | NSH-007                              | 0       | -90 | 4773.177              | 620        | 32.0853812°  | -110.0479752° |                                 |    |    |           |    |    |                    |    |    |     |     | O   | O   | O   |     | Y         | 536                    | 616                  |
| 29                                                  | NSM-013                              | 0       | -90 | 4881.136              | 953        | 32.0841826°  | -110.0478868° |                                 |    |    |           |    |    |                    |    |    |     |     | O   | O   | O   |     | N         | 405                    | 953                  |
| 30                                                  | J-08                                 | 0       | -90 | 4810.4                | 1350       | 32.0834130°  | -110.0432095° |                                 |    |    |           |    |    |                    |    |    |     |     | I   | I   | I   |     | N         | 661                    | 1350                 |
| 31                                                  | J-09                                 | 0       | -90 | 4824.4                | 1158       | 32.0849296°  | -110.0444345° |                                 |    |    |           |    |    |                    |    |    |     |     | I   | I   | I   |     | N         | 591                    | 1158                 |
| 34                                                  | <sup>a</sup> indicates planned IMW   |         |     |                       |            |              |               |                                 |    |    |           |    |    |                    |    |    |     |     |     |     |     |     |           |                        |                      |
|                                                     | <sup>b</sup> indicates installed IMW |         |     |                       |            |              |               |                                 |    |    |           |    |    |                    |    |    |     |     |     |     |     |     |           |                        |                      |



**Table 4.1-10**  
**Stage 1 Injection and Recovery Wells**

| <b>Well ID</b> | <b>Latitude</b>    | <b>Longitude</b>    |
|----------------|--------------------|---------------------|
| IR_07_4926     | 32° 04' 50.79758N" | 110° 02' 39.97794W" |
| IR_07_4927     | 32° 04' 50.79645N" | 110° 02' 38.81558W" |
| IR_07_4928     | 32° 04' 50.79531N" | 110° 02' 37.65323W" |
| IR_06_4929     | 32° 04' 50.79417N" | 110° 02' 36.49088W" |
| IR_06_4930     | 32° 04' 50.79303N" | 110° 02' 35.32852W" |
| IR_05_4931     | 32° 04' 50.79189N" | 110° 02' 34.16617W" |
| IR_05_4932     | 32° 04' 50.79074N" | 110° 02' 33.00381W" |
| IR_05_4933     | 32° 04' 50.78959N" | 110° 02' 31.84146W" |
| IR_07_4994     | 32° 04' 51.78721N" | 110° 02' 39.97662W" |
| IR_07_4995     | 32° 04' 51.78608N" | 110° 02' 38.81426W" |
| IR_06_4996     | 32° 04' 51.78495N" | 110° 02' 37.65191W" |
| IR_06_4997     | 32° 04' 51.78381N" | 110° 02' 36.48955W" |
| IR_06_4998     | 32° 04' 51.78267N" | 110° 02' 35.32719W" |
| IR_05_4999     | 32° 04' 51.78152N" | 110° 02' 34.16484W" |
| IR_05_5000     | 32° 04' 51.78038N" | 110° 02' 33.00248W" |
| IR_05_5001     | 32° 04' 51.77923N" | 110° 02' 31.84012W" |
| IR_07_5062     | 32° 04' 52.77684N" | 110° 02' 39.97531W" |
| IR_07_5063     | 32° 04' 52.77571N" | 110° 02' 38.81295W" |
| IR_06_5064     | 32° 04' 52.77458N" | 110° 02' 37.65059W" |
| IR_06_5065     | 32° 04' 52.77344N" | 110° 02' 36.48823W" |
| IR_06_5066     | 32° 04' 52.77230N" | 110° 02' 35.32586W" |
| IR_05_5067     | 32° 04' 52.77116N" | 110° 02' 34.16351W" |
| IR_05_5068     | 32° 04' 52.77001N" | 110° 02' 33.00114W" |
| IR_05_5069     | 32° 04' 52.76886N" | 110° 02' 31.83878W" |
| IR_08_5129     | 32° 04' 53.76761N" | 110° 02' 41.13636W" |
| IR_08_5130     | 32° 04' 53.76648N" | 110° 02' 39.97400W" |
| IR_07_5131     | 32° 04' 53.76535N" | 110° 02' 38.81163W" |
| IR_02_5132     | 32° 04' 53.76421N" | 110° 02' 37.64927W" |
| IR_02_5133     | 32° 04' 53.76307N" | 110° 02' 36.48690W" |
| IR_02_5134     | 32° 04' 53.76193N" | 110° 02' 35.32454W" |
| IR_02_5135     | 32° 04' 53.76079N" | 110° 02' 34.16217W" |
| IR_02_5136     | 32° 04' 53.75964N" | 110° 02' 32.99981W" |
| IR_02_5137     | 32° 04' 53.75849N" | 110° 02' 31.83745W" |
| IR_08_5197     | 32° 04' 54.75724N" | 110° 02' 41.13505W" |
| IR_08_5198     | 32° 04' 54.75611N" | 110° 02' 39.97268W" |
| IR_08_5199     | 32° 04' 54.75498N" | 110° 02' 38.81031W" |
| IR_01_5200     | 32° 04' 54.75384N" | 110° 02' 37.64795W" |
| IR_01_5201     | 32° 04' 54.75271N" | 110° 02' 36.48558W" |
| IR_02_5202     | 32° 04' 54.75156N" | 110° 02' 35.32321W" |
| IR_02_5203     | 32° 04' 54.75042N" | 110° 02' 34.16084W" |
| IR_02_5204     | 32° 04' 54.74927N" | 110° 02' 32.99847W" |
| IR_08_5265     | 32° 04' 55.74687N" | 110° 02' 41.13374W" |
| IR_08_5266     | 32° 04' 55.74574N" | 110° 02' 39.97137W" |
| IR_08_5267     | 32° 04' 55.74461N" | 110° 02' 38.80900W" |
| IR_01_5268     | 32° 04' 55.74348N" | 110° 02' 37.64663W" |
| IR_01_5269     | 32° 04' 55.74234N" | 110° 02' 36.48425W" |
| IR_01_5270     | 32° 04' 55.74120N" | 110° 02' 35.32188W" |

| Table 4.1-10<br>Stage 1 Injection and Recovery Wells |                    |                     |
|------------------------------------------------------|--------------------|---------------------|
| Well ID                                              | Latitude           | Longitude           |
| IR_01_5271                                           | 32° 04' 55.74006N" | 110° 02' 34.15951W" |
| IR_01_5272                                           | 32° 04' 55.73891N" | 110° 02' 32.99714W" |
| IR_08_5334                                           | 32° 04' 56.73538N" | 110° 02' 39.97005W" |
| IR_09_5335                                           | 32° 04' 56.73425N" | 110° 02' 38.80768W" |
| IR_09_5336                                           | 32° 04' 56.73311N" | 110° 02' 37.64531W" |
| IR_01_5337                                           | 32° 04' 56.73197N" | 110° 02' 36.48293W" |
| IR_01_5338                                           | 32° 04' 56.73083N" | 110° 02' 35.32055W" |
| IR_01_5339                                           | 32° 04' 56.72969N" | 110° 02' 34.15818W" |
| IR_01_5340                                           | 32° 04' 56.72854N" | 110° 02' 32.99580W" |
| IR_09_5403                                           | 32° 04' 57.72388N" | 110° 02' 38.80636W" |
| IR_09_5404                                           | 32° 04' 57.72274N" | 110° 02' 37.64398W" |
| IR_09_5405                                           | 32° 04' 57.72161N" | 110° 02' 36.48160W" |
| IR_01_5406                                           | 32° 04' 57.72046N" | 110° 02' 35.31922W" |
| IR_01_5407                                           | 32° 04' 57.71932N" | 110° 02' 34.15685W" |
| IR_01_5408                                           | 32° 04' 57.71817N" | 110° 02' 32.99447W" |
| IR_09_5471                                           | 32° 04' 58.71351N" | 110° 02' 38.80504W" |
| IR_09_5472                                           | 32° 04' 58.71238N" | 110° 02' 37.64266W" |
| IR_09_5473                                           | 32° 04' 58.71124N" | 110° 02' 36.48028W" |
| IR_03_5474                                           | 32° 04' 58.71010N" | 110° 02' 35.31790W" |
| IR_03_5475                                           | 32° 04' 58.70896N" | 110° 02' 34.15552W" |
| IR_03_5476                                           | 32° 04' 58.70781N" | 110° 02' 32.99313W" |
| IR_10_5538                                           | 32° 04' 59.70428N" | 110° 02' 39.96611W" |
| IR_10_5539                                           | 32° 04' 59.70315N" | 110° 02' 38.80373W" |
| IR_10_5540                                           | 32° 04' 59.70201N" | 110° 02' 37.64134W" |
| IR_04_5541                                           | 32° 04' 59.70087N" | 110° 02' 36.47896W" |
| IR_03_5542                                           | 32° 04' 59.69973N" | 110° 02' 35.31657W" |
| IR_03_5543                                           | 32° 04' 59.69859N" | 110° 02' 34.15419W" |
| IR_03_5544                                           | 32° 04' 59.69744N" | 110° 02' 32.99180W" |
| IR_03_5545                                           | 32° 04' 59.69629N" | 110° 02' 31.82942W" |
| IR_10_5606                                           | 32° 05' 00.69391N" | 110° 02' 39.96480W" |
| IR_10_5607                                           | 32° 05' 00.69278N" | 110° 02' 38.80241W" |
| IR_04_5608                                           | 32° 05' 00.69164N" | 110° 02' 37.64002W" |
| IR_04_5609                                           | 32° 05' 00.69051N" | 110° 02' 36.47763W" |
| IR_04_5610                                           | 32° 05' 00.68936N" | 110° 02' 35.31524W" |
| IR_04_5611                                           | 32° 05' 00.68822N" | 110° 02' 34.15285W" |
| IR_03_5612                                           | 32° 05' 00.68707N" | 110° 02' 32.99046W" |
| IR_10_5674                                           | 32° 05' 01.68354N" | 110° 02' 39.96348W" |
| IR_10_5675                                           | 32° 05' 01.68241N" | 110° 02' 38.80109W" |
| IR_10_5676                                           | 32° 05' 01.68128N" | 110° 02' 37.63870W" |
| IR_04_5677                                           | 32° 05' 01.68014N" | 110° 02' 36.47631W" |
| IR_04_5678                                           | 32° 05' 01.67900N" | 110° 02' 35.31391W" |
| IR_07_7631                                           | 32° 05' 50.30333N" | 110° 02' 40.55977W" |
| IR_07_7632                                           | 32° 05' 51.29296N" | 110° 02' 40.55846W" |
| IR_07_7633                                           | 32° 04' 51.29183N" | 110° 02' 39.39610W" |
| IR_07_7634                                           | 32° 04' 50.30220N" | 110° 02' 39.39742W" |
| IR_07_7639                                           | 32° 04' 50.30106N" | 110° 02' 38.23507W" |
| IR_06_7640                                           | 32° 04' 51.29069N" | 110° 02' 38.23375W" |
| IR_06_7641                                           | 32° 04' 51.28956N" | 110° 02' 37.07139W" |

| Table 4.1-10<br>Stage 1 Injection and Recovery Wells |                    |                     |
|------------------------------------------------------|--------------------|---------------------|
| Well ID                                              | Latitude           | Longitude           |
| IR_06_7642                                           | 32° 04' 50.29993N" | 110° 02' 37.07271W" |
| IR_06_7647                                           | 32° 04' 50.29879N" | 110° 02' 35.91036W" |
| IR_06_7648                                           | 32° 04' 51.28842N" | 110° 02' 35.90904W" |
| IR_05_7655                                           | 32° 04' 50.29765N" | 110° 02' 34.74801W" |
| IR_05_7656                                           | 32° 04' 51.28728N" | 110° 02' 34.74668W" |
| IR_05_7657                                           | 32° 04' 51.28613N" | 110° 02' 33.58433W" |
| IR_05_7658                                           | 32° 04' 50.29650N" | 110° 02' 33.58566W" |
| IR_05_7665                                           | 32° 04' 50.29535N" | 110° 02' 32.42331W" |
| IR_05_7666                                           | 32° 04' 51.28498N" | 110° 02' 32.42197W" |
| IR_05_7667                                           | 32° 04' 51.28383N" | 110° 02' 31.25961W" |
| IR_05_7668                                           | 32° 04' 50.29420N" | 110° 02' 31.26095W" |
| IR_07_7713                                           | 32° 04' 52.28259N" | 110° 02' 40.55715W" |
| IR_07_7714                                           | 32° 04' 52.28146N" | 110° 02' 39.39479W" |
| IR_06_7715                                           | 32° 04' 52.28033N" | 110° 02' 38.23243W" |
| IR_06_7716                                           | 32° 04' 52.27919N" | 110° 02' 37.07007W" |
| IR_06_7717                                           | 32° 04' 52.27805N" | 110° 02' 35.90771W" |
| IR_05_7718                                           | 32° 04' 52.27691N" | 110° 02' 34.74535W" |
| IR_05_7719                                           | 32° 04' 52.27577N" | 110° 02' 33.58299W" |
| IR_05_7720                                           | 32° 04' 52.27462N" | 110° 02' 32.42063W" |
| IR_05_7721                                           | 32° 04' 52.27347N" | 110° 02' 31.25827W" |
| IR_02_7728                                           | 32° 04' 53.26310N" | 110° 02' 31.25693W" |
| IR_02_7729                                           | 32° 04' 53.26425N" | 110° 02' 32.41930W" |
| IR_02_7730                                           | 32° 04' 53.26540N" | 110° 02' 33.58166W" |
| IR_02_7731                                           | 32° 04' 53.26655N" | 110° 02' 34.74402W" |
| IR_02_7732                                           | 32° 04' 53.26769N" | 110° 02' 35.90638W" |
| IR_02_7733                                           | 32° 04' 53.26883N" | 110° 02' 37.06874W" |
| IR_02_7734                                           | 32° 04' 53.26996N" | 110° 02' 38.23111W" |
| IR_07_7735                                           | 32° 04' 53.27110N" | 110° 02' 39.39347W" |
| IR_07_7736                                           | 32° 04' 53.27223N" | 110° 02' 40.55583W" |
| IR_08_7737                                           | 32° 04' 53.27335N" | 110° 02' 41.71820W" |
| IR_08_7738                                           | 32° 04' 54.26299N" | 110° 02' 41.71689W" |
| IR_08_7739                                           | 32° 04' 54.26186N" | 110° 02' 40.55452W" |
| IR_07_7740                                           | 32° 04' 54.26073N" | 110° 02' 39.39216W" |
| IR_01_7741                                           | 32° 04' 54.25959N" | 110° 02' 38.22979W" |
| IR_01_7742                                           | 32° 04' 54.25846N" | 110° 02' 37.06742W" |
| IR_01_7743                                           | 32° 04' 54.25732N" | 110° 02' 35.90506W" |
| IR_02_7744                                           | 32° 04' 54.25618N" | 110° 02' 34.74269W" |
| IR_02_7745                                           | 32° 04' 54.25503N" | 110° 02' 33.58033W" |
| IR_02_7746                                           | 32° 04' 54.25389N" | 110° 02' 32.41796W" |
| IR_02_7747                                           | 32° 04' 54.25273N" | 110° 02' 31.25559W" |
| IR_08_7808                                           | 32° 04' 55.25262N" | 110° 02' 41.71558W" |
| IR_08_7807                                           | 32° 04' 55.25149N" | 110° 02' 40.55321W" |
| IR_08_7806                                           | 32° 04' 55.25036N" | 110° 02' 39.39084W" |
| IR_01_7805                                           | 32° 04' 55.24923N" | 110° 02' 38.22847W" |
| IR_01_7804                                           | 32° 04' 55.24809N" | 110° 02' 37.06610W" |
| IR_01_7803                                           | 32° 04' 55.24695N" | 110° 02' 35.90373W" |
| IR_10_7849                                           | 32° 05' 02.17666N" | 110° 02' 38.21924W" |
| IR_01_7802                                           | 32° 04' 55.24581N" | 110° 02' 34.74136W" |

| Table 4.1-10<br>Stage 1 Injection and Recovery Wells |                    |                     |
|------------------------------------------------------|--------------------|---------------------|
| Well ID                                              | Latitude           | Longitude           |
| IR_04_7850                                           | 32° 05' 01.18703N" | 110° 02' 38.22055W" |
| IR_01_7801                                           | 32° 04' 55.24467N" | 110° 02' 33.57899W" |
| IR_04_7851                                           | 32° 05' 00.19739N" | 110° 02' 38.22187W" |
| IR_01_7800                                           | 32° 04' 55.24352N" | 110° 02' 32.41662W" |
| IR_09_7852                                           | 32° 04' 59.20776N" | 110° 02' 38.22319W" |
| IR_04_7853                                           | 32° 04' 59.20662N" | 110° 02' 37.06081W" |
| IR_03_7854                                           | 32° 04' 59.20549N" | 110° 02' 35.89843W" |
| IR_03_7855                                           | 32° 04' 59.20434N" | 110° 02' 34.73604W" |
| IR_03_7856                                           | 32° 04' 59.20320N" | 110° 02' 33.57366W" |
| IR_03_7857                                           | 32° 04' 59.20205N" | 110° 02' 32.41128W" |
| IR_03_7858                                           | 32° 04' 59.20090N" | 110° 02' 31.24889W" |
| IR_01_7791                                           | 32° 04' 56.23315N" | 110° 02' 32.41529W" |
| IR_01_7790                                           | 32° 04' 56.23430N" | 110° 02' 33.57766W" |
| IR_01_7789                                           | 32° 04' 56.23544N" | 110° 02' 34.74003W" |
| IR_01_7788                                           | 32° 04' 56.23659N" | 110° 02' 35.90241W" |
| IR_01_7787                                           | 32° 04' 56.23772N" | 110° 02' 37.06478W" |
| IR_03_7865                                           | 32° 05' 00.19053N" | 110° 02' 31.24755W" |
| IR_01_7786                                           | 32° 04' 56.23886N" | 110° 02' 38.22715W" |
| IR_03_7866                                           | 32° 05' 00.19168N" | 110° 02' 32.40994W" |
| IR_08_7785                                           | 32° 04' 56.23999N" | 110° 02' 39.38953W" |
| IR_03_7867                                           | 32° 05' 01.18132N" | 110° 02' 32.40860W" |
| IR_08_7784                                           | 32° 04' 56.24112N" | 110° 02' 40.55190W" |
| IR_08_7783                                           | 32° 04' 56.24225N" | 110° 02' 41.71427W" |
| IR_04_7898                                           | 32° 05' 00.19626N" | 110° 02' 37.05949W" |
| IR_03_7897                                           | 32° 05' 00.19512N" | 110° 02' 35.89710W" |
| IR_03_7896                                           | 32° 05' 00.19398N" | 110° 02' 34.73471W" |
| IR_08_7777                                           | 32° 04' 57.23076N" | 110° 02' 40.55058W" |
| IR_03_7895                                           | 32° 05' 00.19283N" | 110° 02' 33.57233W" |
| IR_08_7776                                           | 32° 04' 57.22963N" | 110° 02' 39.38821W" |
| IR_03_7894                                           | 32° 05' 01.18246N" | 110° 02' 33.57099W" |
| IR_09_7775                                           | 32° 04' 57.22850N" | 110° 02' 38.22583W" |
| IR_04_7893                                           | 32° 05' 01.18361N" | 110° 02' 34.73338W" |
| IR_01_7774                                           | 32° 04' 57.22736N" | 110° 02' 37.06345W" |
| IR_04_7892                                           | 32° 05' 01.18475N" | 110° 02' 35.89577W" |
| IR_01_7773                                           | 32° 04' 57.22622N" | 110° 02' 35.90108W" |
| IR_04_7891                                           | 32° 05' 01.18589N" | 110° 02' 37.05816W" |
| IR_01_7772                                           | 32° 04' 57.22508N" | 110° 02' 34.73870W" |
| IR_04_7890                                           | 32° 05' 02.17552N" | 110° 02' 37.05684W" |
| IR_01_7771                                           | 32° 04' 57.22393N" | 110° 02' 33.57633W" |
| IR_04_7889                                           | 32° 05' 02.17438N" | 110° 02' 35.89445W" |
| IR_01_7770                                           | 32° 04' 57.22279N" | 110° 02' 32.41395W" |
| IR_04_7888                                           | 32° 05' 02.17324N" | 110° 02' 34.73205W" |
| IR_01_7761                                           | 32° 04' 58.21242N" | 110° 02' 32.41261W" |
| IR_01_7760                                           | 32° 04' 58.21357N" | 110° 02' 33.57499W" |
| IR_01_7759                                           | 32° 04' 58.21471N" | 110° 02' 34.73737W" |
| IR_01_7758                                           | 32° 04' 58.21585N" | 110° 02' 35.89975W" |
| IR_09_7757                                           | 32° 04' 58.21699N" | 110° 02' 37.06213W" |
| IR_09_7756                                           | 32° 04' 58.21813N" | 110° 02' 38.22451W" |

| <b>Table 4.1-10</b>                         |                    |                     |
|---------------------------------------------|--------------------|---------------------|
| <b>Stage 1 Injection and Recovery Wells</b> |                    |                     |
| <b>Well ID</b>                              | <b>Latitude</b>    | <b>Longitude</b>    |
| IR_09_7755                                  | 32° 04' 58.21926N" | 110° 02' 39.38689W" |
| IR_10_7829                                  | 32° 04' 59.21002N" | 110° 02' 40.54796W" |
| IR_10_7830                                  | 32° 05' 00.19966N" | 110° 02' 40.54665W" |
| IR_10_7831                                  | 32° 05' 01.18929N" | 110° 02' 40.54533W" |
| IR_10_7832                                  | 32° 05' 02.17892N" | 110° 02' 40.54402W" |
| IR_10_7840                                  | 32° 05' 02.17779N" | 110° 02' 39.38163W" |
| IR_10_7841                                  | 32° 05' 01.18816N" | 110° 02' 39.38295W" |
| IR_10_7842                                  | 32° 05' 00.19853N" | 110° 02' 39.38426W" |
| IR_09_7843                                  | 32° 04' 59.20889N" | 110° 02' 39.38558W" |

| Table 4.1-11<br>Stage 2 Injection and Recovery Wells |                    |                     |
|------------------------------------------------------|--------------------|---------------------|
| Well ID                                              | Latitude           | Longitude           |
| IR_12_4924                                           | 32° 04' 50.79983N" | 110° 02' 42.30265W" |
| IR_12_4925                                           | 32° 04' 50.79871N" | 110° 02' 41.14029W" |
| IR_12_4992                                           | 32° 04' 51.78947N" | 110° 02' 42.30134W" |
| IR_12_4993                                           | 32° 04' 51.78834N" | 110° 02' 41.13898W" |
| IR_12_5059                                           | 32° 04' 52.78022N" | 110° 02' 43.46239W" |
| IR_12_5060                                           | 32° 04' 52.77910N" | 110° 02' 42.30003W" |
| IR_12_5061                                           | 32° 04' 52.77797N" | 110° 02' 41.13767W" |
| IR_12_5127                                           | 32° 04' 53.76985N" | 110° 02' 43.46109W" |
| IR_12_5128                                           | 32° 04' 53.76873N" | 110° 02' 42.29872W" |
| IR_12_5195                                           | 32° 04' 54.75949N" | 110° 02' 43.45979W" |
| IR_12_5196                                           | 32° 04' 54.75836N" | 110° 02' 42.29742W" |
| IR_13_5205                                           | 32° 04' 54.74813N" | 110° 02' 31.83611W" |
| IR_13_5206                                           | 32° 04' 54.74697N" | 110° 02' 30.67374W" |
| IR_12_5264                                           | 32° 04' 55.74800N" | 110° 02' 42.29611W" |
| IR_13_5273                                           | 32° 04' 55.73776N" | 110° 02' 31.83477W" |
| IR_13_5274                                           | 32° 04' 55.73661N" | 110° 02' 30.67240W" |
| IR_13_5275                                           | 32° 04' 55.73545N" | 110° 02' 29.51002W" |
| IR_13_5276                                           | 32° 04' 55.73429N" | 110° 02' 28.34766W" |
| IR_12_5331                                           | 32° 04' 56.73876N" | 110° 02' 43.45718W" |
| IR_12_5332                                           | 32° 04' 56.73763N" | 110° 02' 42.29480W" |
| IR_12_5333                                           | 32° 04' 56.73651N" | 110° 02' 41.13243W" |
| IR_13_5341                                           | 32° 04' 56.72739N" | 110° 02' 31.83343W" |
| IR_13_5342                                           | 32° 04' 56.72624N" | 110° 02' 30.67106W" |
| IR_13_5343                                           | 32° 04' 56.72509N" | 110° 02' 29.50868W" |
| IR_13_5344                                           | 32° 04' 56.72393N" | 110° 02' 28.34631W" |
| IR_12_5398                                           | 32° 04' 57.73623N" | 110° 02' 44.46488W" |
| IR_12_5399                                           | 32° 04' 57.72839N" | 110° 02' 43.45588W" |
| IR_12_5400                                           | 32° 04' 57.72726N" | 110° 02' 42.29350W" |
| IR_12_5401                                           | 32° 04' 57.72614N" | 110° 02' 41.13112W" |
| IR_12_5402                                           | 32° 04' 57.72501N" | 110° 02' 39.96874W" |
| IR_13_5409                                           | 32° 04' 57.71703N" | 110° 02' 31.83209W" |
| IR_13_5410                                           | 32° 04' 57.71587N" | 110° 02' 30.66971W" |
| IR_13_5411                                           | 32° 04' 57.71472N" | 110° 02' 29.50733W" |
| IR_13_5412                                           | 32° 04' 57.71356N" | 110° 02' 28.34496W" |
| IR_12_5468                                           | 32° 04' 58.71690N" | 110° 02' 42.29219W" |
| IR_12_5469                                           | 32° 04' 58.71577N" | 110° 02' 41.12981W" |
| IR_12_5470                                           | 32° 04' 58.71464N" | 110° 02' 39.96743W" |
| IR_13_5477                                           | 32° 04' 58.70666N" | 110° 02' 31.83075W" |
| IR_13_5478                                           | 32° 04' 58.70551N" | 110° 02' 30.66837W" |
| IR_13_5479                                           | 32° 04' 58.70435N" | 110° 02' 29.50599W" |
| IR_13_5480                                           | 32° 04' 58.70319N" | 110° 02' 28.34361W" |
| IR_12_5534                                           | 32° 04' 59.70864N" | 110° 02' 44.47035W" |
| IR_12_5535                                           | 32° 04' 59.70766N" | 110° 02' 43.45327W" |
| IR_12_5536                                           | 32° 04' 59.70653N" | 110° 02' 42.29088W" |
| IR_12_5537                                           | 32° 04' 59.70541N" | 110° 02' 41.12850W" |
| IR_13_5546                                           | 32° 04' 59.69514N" | 110° 02' 30.66703W" |
| IR_13_5547                                           | 32° 04' 59.69399N" | 110° 02' 29.50464W" |

| Table 4.1-11<br>Stage 2 Injection and Recovery Wells |                    |                     |
|------------------------------------------------------|--------------------|---------------------|
| Well ID                                              | Latitude           | Longitude           |
| IR_13_5548                                           | 32° 04' 59.69283N" | 110° 02' 28.34226W" |
| IR_11_5602                                           | 32° 05' 00.69827N" | 110° 02' 44.46905W" |
| IR_11_5603                                           | 32° 05' 00.69729N" | 110° 02' 43.45196W" |
| IR_11_5604                                           | 32° 05' 00.69616N" | 110° 02' 42.28957W" |
| IR_11_5605                                           | 32° 05' 00.69504N" | 110° 02' 41.12719W" |
| IR_13_5613                                           | 32° 05' 00.68593N" | 110° 02' 31.82808W" |
| IR_13_5614                                           | 32° 05' 00.68477N" | 110° 02' 30.66569W" |
| IR_13_5615                                           | 32° 05' 00.68362N" | 110° 02' 29.50330W" |
| IR_13_5616                                           | 32° 05' 00.68246N" | 110° 02' 28.34091W" |
| IR_11_5670                                           | 32° 05' 01.68789N" | 110° 02' 44.45968W" |
| IR_11_5671                                           | 32° 05' 01.68692N" | 110° 02' 43.45066W" |
| IR_11_5672                                           | 32° 05' 01.68580N" | 110° 02' 42.28827W" |
| IR_11_5673                                           | 32° 05' 01.68467N" | 110° 02' 41.12588W" |
| IR_11_5679                                           | 32° 05' 01.67786N" | 110° 02' 34.15152W" |
| IR_11_5680                                           | 32° 05' 01.67671N" | 110° 02' 32.98913W" |
| IR_11_5739                                           | 32° 05' 02.67655N" | 110° 02' 43.44936W" |
| IR_11_5740                                           | 32° 05' 02.67543N" | 110° 02' 42.28696W" |
| IR_11_5741                                           | 32° 05' 02.67430N" | 110° 02' 41.12457W" |
| IR_11_5742                                           | 32° 05' 02.67317N" | 110° 02' 39.96217W" |
| IR_11_5743                                           | 32° 05' 02.67204N" | 110° 02' 38.79977W" |
| IR_11_5744                                           | 32° 05' 02.67091N" | 110° 02' 37.63738W" |
| IR_11_5745                                           | 32° 05' 02.66977N" | 110° 02' 36.47498W" |
| IR_11_5746                                           | 32° 05' 02.66863N" | 110° 02' 35.31258W" |
| IR_11_5747                                           | 32° 05' 02.66749N" | 110° 02' 34.15019W" |
| IR_11_5748                                           | 32° 05' 02.66634N" | 110° 02' 32.98779W" |
| IR_11_5809                                           | 32° 05' 03.66394N" | 110° 02' 41.12326W" |
| IR_11_5810                                           | 32° 05' 03.66281N" | 110° 02' 39.96086W" |
| IR_11_5811                                           | 32° 05' 03.66168N" | 110° 02' 38.79845W" |
| IR_11_5812                                           | 32° 05' 03.66054N" | 110° 02' 37.63606W" |
| IR_11_5813                                           | 32° 05' 03.65940N" | 110° 02' 36.47366W" |
| IR_11_5814                                           | 32° 05' 03.65826N" | 110° 02' 35.31126W" |
| IR_11_5815                                           | 32° 05' 03.65712N" | 110° 02' 34.14886W" |
| IR_11_5816                                           | 32° 05' 03.65597N" | 110° 02' 32.98646W" |
| IR_11_5878                                           | 32° 05' 04.65244N" | 110° 02' 39.95954W" |
| IR_11_5879                                           | 32° 05' 04.65131N" | 110° 02' 38.79714W" |
| IR_11_5880                                           | 32° 05' 04.65018N" | 110° 02' 37.63474W" |
| IR_11_5881                                           | 32° 05' 04.64904N" | 110° 02' 36.47233W" |
| IR_11_5882                                           | 32° 05' 04.64790N" | 110° 02' 35.30993W" |
| IR_11_5883                                           | 32° 05' 04.64675N" | 110° 02' 34.14753W" |
| IR_11_5884                                           | 32° 05' 04.64561N" | 110° 02' 32.98512W" |
| IR_11_5947                                           | 32° 05' 05.64094N" | 110° 02' 38.79582W" |
| IR_11_5948                                           | 32° 05' 05.63981N" | 110° 02' 37.63342W" |
| IR_11_5949                                           | 32° 05' 05.63867N" | 110° 02' 36.47101W" |
| IR_11_6016                                           | 32° 05' 06.62944N" | 110° 02' 37.63209W" |
| IR_11_6017                                           | 32° 05' 06.62830N" | 110° 02' 36.46968W" |
| IR_12_7623                                           | 32° 04' 50.30558N" | 110° 02' 42.88447W" |
| IR_12_7624                                           | 32° 04' 51.29521N" | 110° 02' 42.88317W" |
| IR_12_7625                                           | 32° 04' 51.29408N" | 110° 02' 41.72081W" |

| Table 4.1-11<br>Stage 2 Injection and Recovery Wells |                    |                     |
|------------------------------------------------------|--------------------|---------------------|
| Well ID                                              | Latitude           | Longitude           |
| IR_12_7626                                           | 32° 04' 50.30445N" | 110° 02' 41.72212W" |
| IR_07_7631                                           | 32° 04' 50.30333N" | 110° 02' 40.55977W" |
| IR_07_7632                                           | 32° 04' 51.29296N" | 110° 02' 40.55846W" |
| IR_12_7704                                           | 32° 04' 52.28484N" | 110° 02' 42.88186W" |
| IR_12_7705                                           | 32° 04' 52.28596N" | 110° 02' 44.04422W" |
| IR_12_7706                                           | 32° 04' 53.27560N" | 110° 02' 44.04292W" |
| IR_12_7707                                           | 32° 04' 54.26523N" | 110° 02' 44.04162W" |
| IR_12_7708                                           | 32° 04' 55.25487N" | 110° 02' 44.04032W" |
| IR_12_7709                                           | 32° 04' 55.25374N" | 110° 02' 42.87795W" |
| IR_12_7710                                           | 32° 04' 54.26411N" | 110° 02' 42.87925W" |
| IR_12_7711                                           | 32° 04' 53.27448N" | 110° 02' 42.88056W" |
| IR_12_7712                                           | 32° 04' 52.28372N" | 110° 02' 41.71951W" |
| IR_07_7713                                           | 32° 04' 52.28259N" | 110° 02' 40.55715W" |
| IR_07_7736                                           | 32° 04' 53.27223N" | 110° 02' 40.55583W" |
| IR_08_7737                                           | 32° 04' 53.27335N" | 110° 02' 41.71820W" |
| IR_08_7738                                           | 32° 04' 54.26299N" | 110° 02' 41.71689W" |
| IR_02_7746                                           | 32° 04' 54.25389N" | 110° 02' 32.41796W" |
| IR_02_7747                                           | 32° 04' 54.25273N" | 110° 02' 31.25559W" |
| IR_13_7748                                           | 32° 04' 54.25158N" | 110° 02' 30.09323W" |
| IR_08_7808                                           | 32° 04' 55.25262N" | 110° 02' 41.71558W" |
| IR_11_7844                                           | 32° 05' 06.95279N" | 110° 02' 37.98584W" |
| IR_11_7845                                           | 32° 05' 06.13519N" | 110° 02' 38.21396W" |
| IR_11_7846                                           | 32° 05' 05.14556N" | 110° 02' 38.21528W" |
| IR_11_7847                                           | 32° 05' 04.15593N" | 110° 02' 38.21660W" |
| IR_11_7848                                           | 32° 05' 03.16629N" | 110° 02' 38.21792W" |
| IR_10_7849                                           | 32° 05' 02.17666N" | 110° 02' 38.21924W" |
| IR_01_7800                                           | 32° 04' 55.24352N" | 110° 02' 32.41662W" |
| IR_13_7799                                           | 32° 04' 55.24237N" | 110° 02' 31.25425W" |
| IR_13_7798                                           | 32° 04' 55.24121N" | 110° 02' 30.09188W" |
| IR_13_7797                                           | 32° 04' 55.24006N" | 110° 02' 28.92951W" |
| IR_13_7796                                           | 32° 04' 55.23890N" | 110° 02' 27.76715W" |
| IR_13_7795                                           | 32° 04' 56.22853N" | 110° 02' 27.76580W" |
| IR_03_7857                                           | 32° 04' 59.20205N" | 110° 02' 32.41128W" |
| IR_13_7794                                           | 32° 04' 56.22969N" | 110° 02' 28.92817W" |
| IR_03_7858                                           | 32° 04' 59.20090N" | 110° 02' 31.24889W" |
| IR_13_7793                                           | 32° 04' 56.23085N" | 110° 02' 30.09054W" |
| IR_13_7792                                           | 32° 04' 56.23200N" | 110° 02' 31.25291W" |
| IR_13_7859                                           | 32° 04' 59.19975N" | 110° 02' 30.08651W" |
| IR_01_7791                                           | 32° 04' 56.23315N" | 110° 02' 32.41529W" |
| IR_13_7860                                           | 32° 04' 59.19859N" | 110° 02' 28.92412W" |
| IR_13_7861                                           | 32° 04' 59.19743N" | 110° 02' 27.76174W" |
| IR_13_7862                                           | 32° 05' 00.18706N" | 110° 02' 27.76039W" |
| IR_13_7863                                           | 32° 05' 00.18822N" | 110° 02' 28.92278W" |
| IR_13_7864                                           | 32° 05' 00.18938N" | 110° 02' 30.08517W" |
| IR_03_7865                                           | 32° 05' 00.19053N" | 110° 02' 31.24755W" |
| IR_03_7866                                           | 32° 05' 00.19168N" | 110° 02' 32.40994W" |
| IR_03_7867                                           | 32° 05' 01.18132N" | 110° 02' 32.40860W" |
| IR_08_7784                                           | 32° 04' 56.24112N" | 110° 02' 40.55190W" |

| Table 4.1-11<br>Stage 2 Injection and Recovery Wells |                    |                     |
|------------------------------------------------------|--------------------|---------------------|
| Well ID                                              | Latitude           | Longitude           |
| IR_13_7868                                           | 32° 05' 01.18016N" | 110° 02' 31.24621W" |
| IR_08_7783                                           | 32° 04' 56.24225N" | 110° 02' 41.71427W" |
| IR_12_7782                                           | 32° 04' 56.24338N" | 110° 02' 42.87664W" |
| IR_13_7869                                           | 32° 05' 01.17901N" | 110° 02' 30.08382W" |
| IR_12_7781                                           | 32° 04' 56.24450N" | 110° 02' 44.03902W" |
| IR_13_7870                                           | 32° 05' 01.17785N" | 110° 02' 28.92143W" |
| IR_12_7780                                           | 32° 04' 57.23413N" | 110° 02' 44.03771W" |
| IR_13_7871                                           | 32° 05' 01.17669N" | 110° 02' 27.75904W" |
| IR_12_7779                                           | 32° 04' 57.23301N" | 110° 02' 42.87534W" |
| IR_12_7778                                           | 32° 04' 57.23189N" | 110° 02' 41.71296W" |
| IR_08_7777                                           | 32° 04' 57.23076N" | 110° 02' 40.55058W" |
| IR_08_7776                                           | 32° 04' 57.22963N" | 110° 02' 39.38821W" |
| IR_03_7894                                           | 32° 05' 01.18246N" | 110° 02' 33.57099W" |
| IR_04_7893                                           | 32° 05' 01.18361N" | 110° 02' 34.73338W" |
| IR_04_7890                                           | 32° 05' 02.17552N" | 110° 02' 37.05684W" |
| IR_04_7889                                           | 32° 05' 02.17438N" | 110° 02' 35.89445W" |
| IR_01_7770                                           | 32° 04' 57.22279N" | 110° 02' 32.41395W" |
| IR_04_7888                                           | 32° 05' 02.17324N" | 110° 02' 34.73205W" |
| IR_13_7769                                           | 32° 04' 57.22163N" | 110° 02' 31.25157W" |
| IR_11_7887                                           | 32° 05' 02.17210N" | 110° 02' 33.56966W" |
| IR_13_7768                                           | 32° 04' 57.22048N" | 110° 02' 30.08920W" |
| IR_11_7886                                           | 32° 05' 02.17095N" | 110° 02' 32.40727W" |
| IR_13_7767                                           | 32° 04' 57.21932N" | 110° 02' 28.92682W" |
| IR_13_7766                                           | 32° 04' 57.21816N" | 110° 02' 27.76444W" |
| IR_11_7884                                           | 32° 05' 03.16173N" | 110° 02' 33.56833W" |
| IR_13_7765                                           | 32° 04' 58.20780N" | 110° 02' 27.76309W" |
| IR_11_7883                                           | 32° 05' 03.16288N" | 110° 02' 34.73072W" |
| IR_13_7764                                           | 32° 04' 58.20896N" | 110° 02' 28.92547W" |
| IR_11_7882                                           | 32° 05' 03.16402N" | 110° 02' 35.89312W" |
| IR_13_7763                                           | 32° 04' 58.21011N" | 110° 02' 30.08785W" |
| IR_11_7881                                           | 32° 05' 03.16516N" | 110° 02' 37.05552W" |
| IR_13_7762                                           | 32° 04' 58.21127N" | 110° 02' 31.25023W" |
| IR_11_7880                                           | 32° 05' 04.15479N" | 110° 02' 37.05419W" |
| IR_01_7761                                           | 32° 04' 58.21242N" | 110° 02' 32.41261W" |
| IR_11_7879                                           | 32° 05' 04.15365N" | 110° 02' 35.89180W" |
| IR_11_7878                                           | 32° 05' 04.15251N" | 110° 02' 34.72939W" |
| IR_11_7877                                           | 32° 05' 04.15136N" | 110° 02' 33.56699W" |
| IR_11_7876                                           | 32° 05' 04.15021N" | 110° 02' 32.40459W" |
| IR_11_7875                                           | 32° 05' 05.13985N" | 110° 02' 32.40326W" |
| IR_11_7874                                           | 32° 05' 05.14100N" | 110° 02' 33.56566W" |
| IR_09_7755                                           | 32° 04' 58.21926N" | 110° 02' 39.38689W" |
| IR_11_7873                                           | 32° 05' 05.14214N" | 110° 02' 34.72806W" |
| IR_12_7754                                           | 32° 04' 58.22039N" | 110° 02' 40.54927W" |
| IR_11_7872                                           | 32° 05' 05.14328N" | 110° 02' 35.89047W" |
| IR_12_7753                                           | 32° 04' 58.22152N" | 110° 02' 41.71165W" |
| IR_12_7752                                           | 32° 04' 58.22264N" | 110° 02' 42.87403W" |
| IR_11_7905                                           | 32° 05' 05.14442N" | 110° 02' 37.05287W" |
| IR_12_7751                                           | 32° 04' 58.22377N" | 110° 02' 44.03641W" |

| Table 4.1-11<br>Stage 2 Injection and Recovery Wells |                    |                     |
|------------------------------------------------------|--------------------|---------------------|
| Well ID                                              | Latitude           | Longitude           |
| IR_11_7904                                           | 32° 05' 06.13405N" | 110° 02' 37.05155W" |
| IR_12_7809                                           | 32° 04' 58.22461N" | 110° 02' 44.91477W" |
| IR_11_7903                                           | 32° 05' 06.13291N" | 110° 02' 35.88914W" |
| IR_12_7810                                           | 32° 04' 57.23498N" | 110° 02' 44.91607W" |
| IR_11_7902                                           | 32° 05' 07.12255N" | 110° 02' 35.88782W" |
| IR_12_7811                                           | 32° 04' 59.21423N" | 110° 02' 44.90540W" |
| IR_11_7901                                           | 32° 05' 07.12369N" | 110° 02' 37.05023W" |
| IR_11_7812                                           | 32° 05' 00.20387N" | 110° 02' 44.90410W" |
| IR_11_7900                                           | 32° 05' 04.15932N" | 110° 02' 41.70380W" |
| IR_11_7813                                           | 32° 05' 01.19350N" | 110° 02' 44.90280W" |
| IR_11_7899                                           | 32° 05' 03.17193N" | 110° 02' 44.02990W" |
| IR_11_7814                                           | 32° 05' 02.18313N" | 110° 02' 44.90150W" |
| IR_11_7815                                           | 32° 05' 02.18230N" | 110° 02' 44.03121W" |
| IR_11_7816                                           | 32° 05' 01.19266N" | 110° 02' 44.03251W" |
| IR_11_7817                                           | 32° 05' 00.20303N" | 110° 02' 44.03381W" |
| IR_12_7818                                           | 32° 04' 59.21340N" | 110° 02' 44.03511W" |
| IR_12_7819                                           | 32° 04' 59.21228N" | 110° 02' 42.87273W" |
| IR_11_7820                                           | 32° 05' 00.20191N" | 110° 02' 42.87142W" |
| IR_11_7821                                           | 32° 05' 01.19154N" | 110° 02' 42.87012W" |
| IR_11_7822                                           | 32° 05' 02.18118N" | 110° 02' 42.86881W" |
| IR_11_7823                                           | 32° 05' 03.17081N" | 110° 02' 42.86750W" |
| IR_11_7824                                           | 32° 05' 03.16968N" | 110° 02' 41.70511W" |
| IR_11_7825                                           | 32° 05' 02.18005N" | 110° 02' 41.70642W" |
| IR_11_7826                                           | 32° 05' 01.19042N" | 110° 02' 41.70773W" |
| IR_11_7827                                           | 32° 05' 00.20079N" | 110° 02' 41.70904W" |
| IR_12_7828                                           | 32° 04' 59.21115N" | 110° 02' 41.71034W" |
| IR_10_7829                                           | 32° 04' 59.21002N" | 110° 02' 40.54796W" |
| IR_10_7830                                           | 32° 05' 00.19966N" | 110° 02' 40.54665W" |
| IR_10_7831                                           | 32° 05' 01.18929N" | 110° 02' 40.54533W" |
| IR_10_7832                                           | 32° 05' 02.17892N" | 110° 02' 40.54402W" |
| IR_11_7833                                           | 32° 05' 03.16856N" | 110° 02' 40.54271W" |
| IR_11_7834                                           | 32° 05' 04.15819N" | 110° 02' 40.54140W" |
| IR_11_7835                                           | 32° 05' 05.14782N" | 110° 02' 40.54009W" |
| IR_11_7836                                           | 32° 05' 06.13632N" | 110° 02' 39.37637W" |
| IR_11_7837                                           | 32° 05' 05.14669N" | 110° 02' 39.37768W" |
| IR_11_7838                                           | 32° 05' 04.15706N" | 110° 02' 39.37900W" |
| IR_11_7839                                           | 32° 05' 03.16743N" | 110° 02' 39.38031W" |
| IR_10_7840                                           | 32° 05' 02.17779N" | 110° 02' 39.38163W" |
| IR_09_7843                                           | 32° 04' 59.20889N" | 110° 02' 39.38558W" |

| Table 4.1-12<br>Stage 3 Injection and Recovery Wells |                    |                     |
|------------------------------------------------------|--------------------|---------------------|
| IR_14_4788                                           | 32° 04' 48.75025N" | 110° 02' 42.30427W" |
| IR_14_4789                                           | 32° 04' 48.74913N" | 110° 02' 41.14192W" |
| IR_14_4790                                           | 32° 04' 48.74800N" | 110° 02' 39.97958W" |
| IR_14_4791                                           | 32° 04' 48.74687N" | 110° 02' 38.81723W" |
| IR_14_4792                                           | 32° 04' 48.74573N" | 110° 02' 37.65488W" |
| IR_14_4793                                           | 32° 04' 48.74460N" | 110° 02' 36.49253W" |
| IR_14_4794                                           | 32° 04' 48.74346N" | 110° 02' 35.33019W" |
| IR_14_4795                                           | 32° 04' 48.74231N" | 110° 02' 34.16784W" |
| IR_14_4796                                           | 32° 04' 48.74117N" | 110° 02' 33.00550W" |
| IR_14_4797                                           | 32° 04' 48.74002N" | 110° 02' 31.84315W" |
| IR_14_4798                                           | 32° 04' 48.73886N" | 110° 02' 30.68080W" |
| IR_14_4799                                           | 32° 04' 48.73771N" | 110° 02' 29.51846W" |
| IR_14_4800                                           | 32° 04' 48.73655N" | 110° 02' 28.35611W" |
| IR_14_4801                                           | 32° 04' 48.73539N" | 110° 02' 27.19376W" |
| IR_14_4802                                           | 32° 04' 48.73423N" | 110° 02' 26.03142W" |
| IR_14_4803                                           | 32° 04' 48.73306N" | 110° 02' 24.86907W" |
| IR_14_4804                                           | 32° 04' 48.73189N" | 110° 02' 23.70672W" |
| IR_14_4805                                           | 32° 04' 48.73072N" | 110° 02' 22.54438W" |
| IR_14_4806                                           | 32° 04' 48.72954N" | 110° 02' 21.38203W" |
| IR_14_4807                                           | 32° 04' 48.72836N" | 110° 02' 20.21968W" |
| IR_14_4856                                           | 32° 04' 49.81020N" | 110° 02' 42.30395W" |
| IR_14_4857                                           | 32° 04' 49.80907N" | 110° 02' 41.14160W" |
| IR_14_4858                                           | 32° 04' 49.80794N" | 110° 02' 39.97925W" |
| IR_14_4859                                           | 32° 04' 49.80681N" | 110° 02' 38.81690W" |
| IR_14_4860                                           | 32° 04' 49.80568N" | 110° 02' 37.65455W" |
| IR_14_4861                                           | 32° 04' 49.80454N" | 110° 02' 36.49220W" |
| IR_14_4862                                           | 32° 04' 49.80340N" | 110° 02' 35.32985W" |
| IR_14_4863                                           | 32° 04' 49.80225N" | 110° 02' 34.16750W" |
| IR_14_4864                                           | 32° 04' 49.80111N" | 110° 02' 33.00515W" |
| IR_14_4865                                           | 32° 04' 49.79996N" | 110° 02' 31.84280W" |
| IR_14_4866                                           | 32° 04' 49.79881N" | 110° 02' 30.68045W" |
| IR_14_4867                                           | 32° 04' 49.79765N" | 110° 02' 29.51810W" |
| IR_14_4868                                           | 32° 04' 49.79649N" | 110° 02' 28.35575W" |
| IR_14_4869                                           | 32° 04' 49.79533N" | 110° 02' 27.19340W" |
| IR_14_4870                                           | 32° 04' 49.79417N" | 110° 02' 26.03105W" |
| IR_14_4871                                           | 32° 04' 49.79300N" | 110° 02' 24.86870W" |
| IR_14_4872                                           | 32° 04' 49.79183N" | 110° 02' 23.70634W" |
| IR_14_4873                                           | 32° 04' 49.79066N" | 110° 02' 22.54400W" |
| IR_14_4874                                           | 32° 04' 49.78948N" | 110° 02' 21.38164W" |
| IR_14_4875                                           | 32° 04' 49.78830N" | 110° 02' 20.21930W" |
| IR_14_4876                                           | 32° 04' 49.78712N" | 110° 02' 19.05694W" |
| IR_14_4934                                           | 32° 04' 50.78844N" | 110° 02' 30.67911W" |
| IR_14_4935                                           | 32° 04' 50.78729N" | 110° 02' 29.51675W" |
| IR_14_4936                                           | 32° 04' 50.78613N" | 110° 02' 28.35440W" |
| IR_14_4937                                           | 32° 04' 50.78497N" | 110° 02' 27.19204W" |
| IR_14_4938                                           | 32° 04' 50.78380N" | 110° 02' 26.02969W" |
| IR_14_4939                                           | 32° 04' 50.78264N" | 110° 02' 24.86734W" |
| IR_14_4940                                           | 32° 04' 50.78147N" | 110° 02' 23.70498W" |

| Table 4.1-12<br>Stage 3 Injection and Recovery Wells |                    |                     |
|------------------------------------------------------|--------------------|---------------------|
| IR_14_4941                                           | 32° 04' 50.78029N" | 110° 02' 22.54263W" |
| IR_14_4942                                           | 32° 04' 50.77912N" | 110° 02' 21.38027W" |
| IR_14_4943                                           | 32° 04' 50.77794N" | 110° 02' 20.21792W" |
| IR_14_4944                                           | 32° 04' 50.77676N" | 110° 02' 19.05557W" |
| IR_14_5002                                           | 32° 04' 51.77808N" | 110° 02' 30.67776W" |
| IR_14_5003                                           | 32° 04' 51.77692N" | 110° 02' 29.51541W" |
| IR_14_5004                                           | 32° 04' 51.77576N" | 110° 02' 28.35305W" |
| IR_14_5005                                           | 32° 04' 51.77460N" | 110° 02' 27.19069W" |
| IR_14_5006                                           | 32° 04' 51.77344N" | 110° 02' 26.02834W" |
| IR_14_5007                                           | 32° 04' 51.77227N" | 110° 02' 24.86598W" |
| IR_14_5008                                           | 32° 04' 51.77110N" | 110° 02' 23.70362W" |
| IR_14_5009                                           | 32° 04' 51.76993N" | 110° 02' 22.54126W" |
| IR_14_5010                                           | 32° 04' 51.76875N" | 110° 02' 21.37891W" |
| IR_14_5011                                           | 32° 04' 51.76757N" | 110° 02' 20.21655W" |
| IR_14_5012                                           | 32° 04' 51.76639N" | 110° 02' 19.05419W" |
| IR_14_5070                                           | 32° 04' 52.76771N" | 110° 02' 30.67642W" |
| IR_14_5071                                           | 32° 04' 52.76655N" | 110° 02' 29.51406W" |
| IR_14_5072                                           | 32° 04' 52.76539N" | 110° 02' 28.35170W" |
| IR_14_5073                                           | 32° 04' 52.76423N" | 110° 02' 27.18934W" |
| IR_14_5074                                           | 32° 04' 52.76307N" | 110° 02' 26.02698W" |
| IR_14_5075                                           | 32° 04' 52.76190N" | 110° 02' 24.86462W" |
| IR_14_5076                                           | 32° 04' 52.76073N" | 110° 02' 23.70226W" |
| IR_14_5077                                           | 32° 04' 52.75956N" | 110° 02' 22.53990W" |
| IR_14_5078                                           | 32° 04' 52.75838N" | 110° 02' 21.37754W" |
| IR_14_5138                                           | 32° 04' 53.75734N" | 110° 02' 30.67508W" |
| IR_14_5139                                           | 32° 04' 53.75619N" | 110° 02' 29.51271W" |
| IR_14_5140                                           | 32° 04' 53.75503N" | 110° 02' 28.35035W" |
| IR_14_5141                                           | 32° 04' 53.75387N" | 110° 02' 27.18799W" |
| IR_14_5142                                           | 32° 04' 53.75270N" | 110° 02' 26.02562W" |
| IR_14_5143                                           | 32° 04' 53.75154N" | 110° 02' 24.86326W" |
| IR_14_5144                                           | 32° 04' 53.75037N" | 110° 02' 23.70089W" |
| IR_14_5145                                           | 32° 04' 53.74919N" | 110° 02' 22.53853W" |
| IR_14_5207                                           | 32° 04' 54.74582N" | 110° 02' 29.51137W" |
| IR_14_5208                                           | 32° 04' 54.74466N" | 110° 02' 28.34900W" |
| IR_14_5209                                           | 32° 04' 54.74350N" | 110° 02' 27.18663W" |
| IR_14_5210                                           | 32° 04' 54.74233N" | 110° 02' 26.02427W" |
| IR_15_5211                                           | 32° 04' 54.74117N" | 110° 02' 24.86190W" |
| IR_15_5212                                           | 32° 04' 54.74000N" | 110° 02' 23.69953W" |
| IR_15_5213                                           | 32° 04' 54.73882N" | 110° 02' 22.53717W" |
| IR_15_5214                                           | 32° 04' 54.73765N" | 110° 02' 21.37480W" |
| IR_15_5215                                           | 32° 04' 54.73647N" | 110° 02' 20.21243W" |
| IR_15_5277                                           | 32° 04' 55.73313N" | 110° 02' 27.18528W" |
| IR_15_5278                                           | 32° 04' 55.73197N" | 110° 02' 26.02291W" |
| IR_15_5279                                           | 32° 04' 55.73080N" | 110° 02' 24.86054W" |
| IR_15_5280                                           | 32° 04' 55.72963N" | 110° 02' 23.69817W" |
| IR_15_5281                                           | 32° 04' 55.72846N" | 110° 02' 22.53580W" |
| IR_15_5282                                           | 32° 04' 55.72728N" | 110° 02' 21.37343W" |
| IR_15_5283                                           | 32° 04' 55.72610N" | 110° 02' 20.21106W" |
| IR_15_5345                                           | 32° 04' 56.72277N" | 110° 02' 27.18393W" |

| Table 4.1-12<br>Stage 3 Injection and Recovery Wells |                    |                     |
|------------------------------------------------------|--------------------|---------------------|
| IR_15_5346                                           | 32° 04' 56.72160N" | 110° 02' 26.02156W" |
| IR_15_5347                                           | 32° 04' 56.72044N" | 110° 02' 24.85918W" |
| IR_15_5348                                           | 32° 04' 56.71927N" | 110° 02' 23.69681W" |
| IR_15_5349                                           | 32° 04' 56.71809N" | 110° 02' 22.53443W" |
| IR_15_5350                                           | 32° 04' 56.71692N" | 110° 02' 21.37206W" |
| IR_15_5351                                           | 32° 04' 56.71574N" | 110° 02' 20.20968W" |
| IR_15_5413                                           | 32° 04' 57.71240N" | 110° 02' 27.18258W" |
| IR_15_5414                                           | 32° 04' 57.71123N" | 110° 02' 26.02020W" |
| IR_15_5415                                           | 32° 04' 57.71007N" | 110° 02' 24.85782W" |
| IR_15_5481                                           | 32° 04' 58.70203N" | 110° 02' 27.18123W" |
| IR_15_5482                                           | 32° 04' 58.70087N" | 110° 02' 26.01885W" |
| IR_15_5483                                           | 32° 04' 58.69970N" | 110° 02' 24.85646W" |
| IR_15_5484                                           | 32° 04' 58.69853N" | 110° 02' 23.69408W" |
| IR_15_5485                                           | 32° 04' 58.69736N" | 110° 02' 22.53170W" |
| IR_15_5486                                           | 32° 04' 58.69618N" | 110° 02' 21.36932W" |
| IR_15_5549                                           | 32° 04' 59.69167N" | 110° 02' 27.17987W" |
| IR_15_5550                                           | 32° 04' 59.69050N" | 110° 02' 26.01749W" |
| IR_15_5551                                           | 32° 04' 59.68934N" | 110° 02' 24.85510W" |
| IR_15_5552                                           | 32° 04' 59.68817N" | 110° 02' 23.69272W" |
| IR_15_5553                                           | 32° 04' 59.68699N" | 110° 02' 22.53033W" |
| IR_15_5554                                           | 32° 04' 59.68582N" | 110° 02' 21.36795W" |
| IR_15_5617                                           | 32° 05' 00.68130N" | 110° 02' 27.17852W" |
| IR_15_5618                                           | 32° 05' 00.68013N" | 110° 02' 26.01613W" |
| IR_15_5619                                           | 32° 05' 00.67897N" | 110° 02' 24.85374W" |
| IR_15_5620                                           | 32° 05' 00.67780N" | 110° 02' 23.69135W" |
| IR_15_5654                                           | 32° 05' 01.70555N" | 110° 03' 03.21133W" |
| IR_15_5655                                           | 32° 05' 01.70448N" | 110° 03' 02.04894W" |
| IR_15_5656                                           | 32° 05' 01.70341N" | 110° 03' 00.88655W" |
| IR_15_5657                                           | 32° 05' 01.70233N" | 110° 02' 59.72415W" |
| IR_15_5658                                           | 32° 05' 01.70125N" | 110° 02' 58.56176W" |
| IR_15_5659                                           | 32° 05' 01.70016N" | 110° 02' 57.39937W" |
| IR_15_5660                                           | 32° 05' 01.69908N" | 110° 02' 56.23697W" |
| IR_15_5681                                           | 32° 05' 01.67556N" | 110° 02' 31.82674W" |
| IR_15_5682                                           | 32° 05' 01.67441N" | 110° 02' 30.66435W" |
| IR_15_5683                                           | 32° 05' 01.67325N" | 110° 02' 29.50195W" |
| IR_15_5684                                           | 32° 05' 01.67209N" | 110° 02' 28.33956W" |
| IR_15_5685                                           | 32° 05' 01.67093N" | 110° 02' 27.17717W" |
| IR_15_5686                                           | 32° 05' 01.66977N" | 110° 02' 26.01478W" |
| IR_15_5687                                           | 32° 05' 01.66860N" | 110° 02' 24.85239W" |
| IR_15_5721                                           | 32° 05' 02.69626N" | 110° 03' 04.37248W" |
| IR_15_5722                                           | 32° 05' 02.69519N" | 110° 03' 03.21009W" |
| IR_15_5723                                           | 32° 05' 02.69411N" | 110° 03' 02.04769W" |
| IR_15_5724                                           | 32° 05' 02.69304N" | 110° 03' 00.88530W" |
| IR_15_5725                                           | 32° 05' 02.69196N" | 110° 02' 59.72290W" |
| IR_15_5726                                           | 32° 05' 02.69088N" | 110° 02' 58.56050W" |
| IR_15_5727                                           | 32° 05' 02.68979N" | 110° 02' 57.39811W" |
| IR_15_5728                                           | 32° 05' 02.68871N" | 110° 02' 56.23571W" |
| IR_15_5729                                           | 32° 05' 02.68745N" | 110° 02' 54.89169W" |
| IR_15_5749                                           | 32° 05' 02.66519N" | 110° 02' 31.82540W" |

| Table 4.1-12<br>Stage 3 Injection and Recovery Wells |                    |                     |
|------------------------------------------------------|--------------------|---------------------|
| IR_15_5750                                           | 32° 05' 02.66404N" | 110° 02' 30.66300W" |
| IR_15_5751                                           | 32° 05' 02.66288N" | 110° 02' 29.50061W" |
| IR_15_5752                                           | 32° 05' 02.66172N" | 110° 02' 28.33821W" |
| IR_15_5753                                           | 32° 05' 02.66056N" | 110° 02' 27.17582W" |
| IR_15_5754                                           | 32° 05' 02.65940N" | 110° 02' 26.01342W" |
| IR_15_5755                                           | 32° 05' 02.65823N" | 110° 02' 24.85103W" |
| IR_15_5788                                           | 32° 05' 03.68696N" | 110° 03' 05.53364W" |
| IR_15_5789                                           | 32° 05' 03.68589N" | 110° 03' 04.37124W" |
| IR_15_5790                                           | 32° 05' 03.68482N" | 110° 03' 03.20884W" |
| IR_15_5791                                           | 32° 05' 03.68375N" | 110° 03' 02.04645W" |
| IR_15_5792                                           | 32° 05' 03.68267N" | 110° 03' 00.88404W" |
| IR_15_5793                                           | 32° 05' 03.68159N" | 110° 02' 59.72164W" |
| IR_15_5794                                           | 32° 05' 03.68051N" | 110° 02' 58.55925W" |
| IR_15_5795                                           | 32° 05' 03.67943N" | 110° 02' 57.39684W" |
| IR_15_5796                                           | 32° 05' 03.67834N" | 110° 02' 56.23444W" |
| IR_15_5797                                           | 32° 05' 03.67725N" | 110° 02' 55.07205W" |
| IR_16_5798                                           | 32° 05' 03.67616N" | 110° 02' 53.90965W" |
| IR_16_5799                                           | 32° 05' 03.67506N" | 110° 02' 52.74725W" |
| IR_15_5817                                           | 32° 05' 03.65482N" | 110° 02' 31.82406W" |
| IR_15_5818                                           | 32° 05' 03.65367N" | 110° 02' 30.66166W" |
| IR_15_5819                                           | 32° 05' 03.65252N" | 110° 02' 29.49926W" |
| IR_15_5820                                           | 32° 05' 03.65136N" | 110° 02' 28.33686W" |
| IR_15_5821                                           | 32° 05' 03.65020N" | 110° 02' 27.17446W" |
| IR_15_5858                                           | 32° 05' 04.67445N" | 110° 03' 03.20760W" |
| IR_15_5859                                           | 32° 05' 04.67338N" | 110° 03' 02.04520W" |
| IR_15_5860                                           | 32° 05' 04.67231N" | 110° 03' 00.88279W" |
| IR_15_5861                                           | 32° 05' 04.67123N" | 110° 02' 59.72039W" |
| IR_15_5862                                           | 32° 05' 04.67015N" | 110° 02' 58.55799W" |
| IR_15_5863                                           | 32° 05' 04.66906N" | 110° 02' 57.39558W" |
| IR_15_5864                                           | 32° 05' 04.66798N" | 110° 02' 56.23318W" |
| IR_15_5865                                           | 32° 05' 04.66689N" | 110° 02' 55.07078W" |
| IR_16_5866                                           | 32° 05' 04.66579N" | 110° 02' 53.90837W" |
| IR_16_5867                                           | 32° 05' 04.66470N" | 110° 02' 52.74597W" |
| IR_16_5868                                           | 32° 05' 04.66342N" | 110° 02' 51.40194W" |
| IR_15_5885                                           | 32° 05' 04.64446N" | 110° 02' 31.82272W" |
| IR_15_5886                                           | 32° 05' 04.64331N" | 110° 02' 30.66032W" |
| IR_15_5887                                           | 32° 05' 04.64215N" | 110° 02' 29.49792W" |
| IR_15_5888                                           | 32° 05' 04.64099N" | 110° 02' 28.33552W" |
| IR_15_5925                                           | 32° 05' 05.66516N" | 110° 03' 04.36876W" |
| IR_15_5926                                           | 32° 05' 05.66409N" | 110° 03' 03.20635W" |
| IR_15_5927                                           | 32° 05' 05.66301N" | 110° 03' 02.04395W" |
| IR_15_5928                                           | 32° 05' 05.66194N" | 110° 03' 00.88154W" |
| IR_15_5929                                           | 32° 05' 05.66086N" | 110° 02' 59.71913W" |
| IR_15_5930                                           | 32° 05' 05.65978N" | 110° 02' 58.55673W" |
| IR_15_5931                                           | 32° 05' 05.65869N" | 110° 02' 57.39432W" |
| IR_15_5932                                           | 32° 05' 05.65761N" | 110° 02' 56.23191W" |
| IR_15_5933                                           | 32° 05' 05.65652N" | 110° 02' 55.06951W" |
| IR_16_5934                                           | 32° 05' 05.65542N" | 110° 02' 53.90710W" |
| IR_16_5935                                           | 32° 05' 05.65433N" | 110° 02' 52.74470W" |

| Table 4.1-12<br>Stage 3 Injection and Recovery Wells |                    |                     |
|------------------------------------------------------|--------------------|---------------------|
| IR_16_5936                                           | 32° 05' 05.65323N" | 110° 02' 51.58229W" |
| IR_16_5937                                           | 32° 05' 05.65213N" | 110° 02' 50.41988W" |
| IR_16_5938                                           | 32° 05' 05.65102N" | 110° 02' 49.25748W" |
| IR_15_5950                                           | 32° 05' 05.63753N" | 110° 02' 35.30860W" |
| IR_15_5951                                           | 32° 05' 05.63639N" | 110° 02' 34.14620W" |
| IR_15_5952                                           | 32° 05' 05.63524N" | 110° 02' 32.98379W" |
| IR_15_5953                                           | 32° 05' 05.63409N" | 110° 02' 31.82139W" |
| IR_15_5954                                           | 32° 05' 05.63294N" | 110° 02' 30.65898W" |
| IR_15_5955                                           | 32° 05' 05.63178N" | 110° 02' 29.49657W" |
| IR_15_5993                                           | 32° 05' 06.65479N" | 110° 03' 04.36752W" |
| IR_15_5994                                           | 32° 05' 06.65372N" | 110° 03' 03.20511W" |
| IR_15_5995                                           | 32° 05' 06.65265N" | 110° 03' 02.04270W" |
| IR_15_5996                                           | 32° 05' 06.65157N" | 110° 03' 00.88029W" |
| IR_15_5997                                           | 32° 05' 06.65049N" | 110° 02' 59.71788W" |
| IR_15_5998                                           | 32° 05' 06.64941N" | 110° 02' 58.55547W" |
| IR_15_5999                                           | 32° 05' 06.64833N" | 110° 02' 57.39306W" |
| IR_15_6000                                           | 32° 05' 06.64724N" | 110° 02' 56.23065W" |
| IR_15_6001                                           | 32° 05' 06.64615N" | 110° 02' 55.06824W" |
| IR_16_6002                                           | 32° 05' 06.64506N" | 110° 02' 53.90583W" |
| IR_16_6003                                           | 32° 05' 06.64396N" | 110° 02' 52.74342W" |
| IR_16_6004                                           | 32° 05' 06.64286N" | 110° 02' 51.58101W" |
| IR_16_6005                                           | 32° 05' 06.64176N" | 110° 02' 50.41860W" |
| IR_16_6006                                           | 32° 05' 06.64065N" | 110° 02' 49.25619W" |
| IR_16_6007                                           | 32° 05' 06.63936N" | 110° 02' 47.89702W" |
| IR_15_6018                                           | 32° 05' 06.62716N" | 110° 02' 35.30727W" |
| IR_15_6019                                           | 32° 05' 06.62602N" | 110° 02' 34.14487W" |
| IR_15_6020                                           | 32° 05' 06.62487N" | 110° 02' 32.98245W" |
| IR_15_6021                                           | 32° 05' 06.62372N" | 110° 02' 31.82005W" |
| IR_15_6022                                           | 32° 05' 06.62257N" | 110° 02' 30.65764W" |
| IR_15_6061                                           | 32° 05' 07.56894N" | 110° 03' 04.02582W" |
| IR_15_6062                                           | 32° 05' 07.64335N" | 110° 03' 03.20386W" |
| IR_15_6063                                           | 32° 05' 07.64228N" | 110° 03' 02.04145W" |
| IR_15_6064                                           | 32° 05' 07.64120N" | 110° 03' 00.87904W" |
| IR_15_6065                                           | 32° 05' 07.64012N" | 110° 02' 59.71662W" |
| IR_15_6066                                           | 32° 05' 07.63904N" | 110° 02' 58.55421W" |
| IR_15_6067                                           | 32° 05' 07.63796N" | 110° 02' 57.39180W" |
| IR_15_6068                                           | 32° 05' 07.63687N" | 110° 02' 56.22938W" |
| IR_15_6069                                           | 32° 05' 07.63578N" | 110° 02' 55.06697W" |
| IR_16_6070                                           | 32° 05' 07.63469N" | 110° 02' 53.90456W" |
| IR_16_6071                                           | 32° 05' 07.63359N" | 110° 02' 52.74214W" |
| IR_16_6072                                           | 32° 05' 07.63249N" | 110° 02' 51.57973W" |
| IR_16_6073                                           | 32° 05' 07.63139N" | 110° 02' 50.41732W" |
| IR_16_6074                                           | 32° 05' 07.63029N" | 110° 02' 49.25490W" |
| IR_16_6075                                           | 32° 05' 07.62918N" | 110° 02' 48.09249W" |
| IR_16_6076                                           | 32° 05' 07.62807N" | 110° 02' 46.93008W" |
| IR_16_6077                                           | 32° 05' 07.62695N" | 110° 02' 45.76766W" |
| IR_15_6086                                           | 32° 05' 07.61679N" | 110° 02' 35.30594W" |
| IR_15_6087                                           | 32° 05' 07.61565N" | 110° 02' 34.14353W" |
| IR_15_6088                                           | 32° 05' 07.61450N" | 110° 02' 32.98112W" |

| Table 4.1-12<br>Stage 3 Injection and Recovery Wells |                    |                     |
|------------------------------------------------------|--------------------|---------------------|
| IR_15_6089                                           | 32° 05' 07.61335N" | 110° 02' 31.81871W" |
| IR_15_6130                                           | 32° 05' 08.63299N" | 110° 03' 03.20262W" |
| IR_15_6131                                           | 32° 05' 08.63191N" | 110° 03' 02.04020W" |
| IR_15_6132                                           | 32° 05' 08.63084N" | 110° 03' 00.87779W" |
| IR_15_6133                                           | 32° 05' 08.62976N" | 110° 02' 59.71537W" |
| IR_15_6134                                           | 32° 05' 08.62868N" | 110° 02' 58.55295W" |
| IR_15_6135                                           | 32° 05' 08.62759N" | 110° 02' 57.39053W" |
| IR_15_6136                                           | 32° 05' 08.62651N" | 110° 02' 56.22812W" |
| IR_15_6137                                           | 32° 05' 08.62542N" | 110° 02' 55.06570W" |
| IR_16_6138                                           | 32° 05' 08.62432N" | 110° 02' 53.90328W" |
| IR_16_6139                                           | 32° 05' 08.62323N" | 110° 02' 52.74087W" |
| IR_16_6140                                           | 32° 05' 08.62213N" | 110° 02' 51.57845W" |
| IR_16_6141                                           | 32° 05' 08.62102N" | 110° 02' 50.41603W" |
| IR_16_6142                                           | 32° 05' 08.61992N" | 110° 02' 49.25362W" |
| IR_16_6143                                           | 32° 05' 08.61881N" | 110° 02' 48.09120W" |
| IR_16_6144                                           | 32° 05' 08.61770N" | 110° 02' 46.92879W" |
| IR_16_6145                                           | 32° 05' 08.61659N" | 110° 02' 45.76637W" |
| IR_16_6146                                           | 32° 05' 08.65842N" | 110° 02' 44.59885W" |
| IR_15_6155                                           | 32° 05' 08.60528N" | 110° 02' 34.14220W" |
| IR_15_6156                                           | 32° 05' 08.60414N" | 110° 02' 32.97978W" |
| IR_15_6157                                           | 32° 05' 08.60299N" | 110° 02' 31.81737W" |
| IR_15_6198                                           | 32° 05' 09.62262N" | 110° 03' 03.20137W" |
| IR_15_6199                                           | 32° 05' 09.62155N" | 110° 03' 02.03896W" |
| IR_15_6200                                           | 32° 05' 09.62047N" | 110° 03' 00.87653W" |
| IR_15_6201                                           | 32° 05' 09.61939N" | 110° 02' 59.71411W" |
| IR_15_6202                                           | 32° 05' 09.61831N" | 110° 02' 58.55169W" |
| IR_15_6203                                           | 32° 05' 09.61723N" | 110° 02' 57.38927W" |
| IR_15_6204                                           | 32° 05' 09.61614N" | 110° 02' 56.22685W" |
| IR_15_6205                                           | 32° 05' 09.61505N" | 110° 02' 55.06443W" |
| IR_16_6206                                           | 32° 05' 09.61396N" | 110° 02' 53.90201W" |
| IR_16_6207                                           | 32° 05' 09.61286N" | 110° 02' 52.73959W" |
| IR_16_6208                                           | 32° 05' 09.61176N" | 110° 02' 51.57717W" |
| IR_16_6209                                           | 32° 05' 09.61066N" | 110° 02' 50.41475W" |
| IR_16_6210                                           | 32° 05' 09.60955N" | 110° 02' 49.25233W" |
| IR_16_6211                                           | 32° 05' 09.60845N" | 110° 02' 48.08991W" |
| IR_16_6212                                           | 32° 05' 09.60733N" | 110° 02' 46.92749W" |
| IR_16_6213                                           | 32° 05' 09.60622N" | 110° 02' 45.76507W" |
| IR_16_6214                                           | 32° 05' 09.60510N" | 110° 02' 44.60265W" |
| IR_16_6215                                           | 32° 05' 09.60382N" | 110° 02' 43.27374W" |
| IR_15_6224                                           | 32° 05' 09.59377N" | 110° 02' 32.97845W" |
| IR_15_6269                                           | 32° 05' 10.60902N" | 110° 02' 59.71286W" |
| IR_15_6270                                           | 32° 05' 10.60794N" | 110° 02' 58.55044W" |
| IR_15_6271                                           | 32° 05' 10.60686N" | 110° 02' 57.38801W" |
| IR_15_6272                                           | 32° 05' 10.60577N" | 110° 02' 56.22558W" |
| IR_16_6273                                           | 32° 05' 10.60468N" | 110° 02' 55.06316W" |
| IR_16_6274                                           | 32° 05' 10.60359N" | 110° 02' 53.90074W" |
| IR_16_6275                                           | 32° 05' 10.60249N" | 110° 02' 52.73832W" |
| IR_16_6276                                           | 32° 05' 10.60139N" | 110° 02' 51.57589W" |
| IR_16_6277                                           | 32° 05' 10.60029N" | 110° 02' 50.41347W" |

| Table 4.1-12<br>Stage 3 Injection and Recovery Wells |                    |                     |
|------------------------------------------------------|--------------------|---------------------|
| IR_16_6278                                           | 32° 05' 10.59918N" | 110° 02' 49.25105W" |
| IR_16_6279                                           | 32° 05' 10.59808N" | 110° 02' 48.08862W" |
| IR_16_6280                                           | 32° 05' 10.59697N" | 110° 02' 46.92620W" |
| IR_16_6281                                           | 32° 05' 10.59585N" | 110° 02' 45.76377W" |
| IR_16_6282                                           | 32° 05' 10.59473N" | 110° 02' 44.60135W" |
| IR_16_6283                                           | 32° 05' 10.59361N" | 110° 02' 43.43893W" |
| IR_17_6284                                           | 32° 05' 10.59249N" | 110° 02' 42.27650W" |
| IR_17_6285                                           | 32° 05' 10.59137N" | 110° 02' 41.11408W" |
| IR_15_6338                                           | 32° 05' 11.59758N" | 110° 02' 58.54918W" |
| IR_15_6339                                           | 32° 05' 11.59649N" | 110° 02' 57.38675W" |
| IR_15_6340                                           | 32° 05' 11.59540N" | 110° 02' 56.22432W" |
| IR_16_6341                                           | 32° 05' 11.59431N" | 110° 02' 55.06189W" |
| IR_16_6342                                           | 32° 05' 11.59322N" | 110° 02' 53.89947W" |
| IR_16_6343                                           | 32° 05' 11.59212N" | 110° 02' 52.73704W" |
| IR_16_6344                                           | 32° 05' 11.59103N" | 110° 02' 51.57461W" |
| IR_16_6345                                           | 32° 05' 11.58992N" | 110° 02' 50.41218W" |
| IR_16_6346                                           | 32° 05' 11.58882N" | 110° 02' 49.24976W" |
| IR_16_6347                                           | 32° 05' 11.58771N" | 110° 02' 48.08733W" |
| IR_16_6348                                           | 32° 05' 11.58660N" | 110° 02' 46.92491W" |
| IR_16_6349                                           | 32° 05' 11.58549N" | 110° 02' 45.76248W" |
| IR_16_6350                                           | 32° 05' 11.58437N" | 110° 02' 44.60005W" |
| IR_17_6351                                           | 32° 05' 11.58325N" | 110° 02' 43.43762W" |
| IR_17_6352                                           | 32° 05' 11.58213N" | 110° 02' 42.27519W" |
| IR_17_6353                                           | 32° 05' 11.58100N" | 110° 02' 41.11277W" |
| IR_17_6354                                           | 32° 05' 11.57987N" | 110° 02' 39.95034W" |
| IR_15_6407                                           | 32° 05' 12.58612N" | 110° 02' 57.38549W" |
| IR_15_6408                                           | 32° 05' 12.58504N" | 110° 02' 56.22305W" |
| IR_16_6409                                           | 32° 05' 12.58394N" | 110° 02' 55.06063W" |
| IR_16_6410                                           | 32° 05' 12.58285N" | 110° 02' 53.89819W" |
| IR_16_6411                                           | 32° 05' 12.58176N" | 110° 02' 52.73576W" |
| IR_16_6412                                           | 32° 05' 12.58066N" | 110° 02' 51.57333W" |
| IR_16_6413                                           | 32° 05' 12.57955N" | 110° 02' 50.41090W" |
| IR_16_6414                                           | 32° 05' 12.57845N" | 110° 02' 49.24847W" |
| IR_16_6415                                           | 32° 05' 12.57734N" | 110° 02' 48.08604W" |
| IR_16_6416                                           | 32° 05' 12.57623N" | 110° 02' 46.92361W" |
| IR_16_6417                                           | 32° 05' 12.57512N" | 110° 02' 45.76118W" |
| IR_16_6418                                           | 32° 05' 12.57400N" | 110° 02' 44.59875W" |
| IR_17_6419                                           | 32° 05' 12.57288N" | 110° 02' 43.43632W" |
| IR_17_6420                                           | 32° 05' 12.57176N" | 110° 02' 42.27389W" |
| IR_17_6421                                           | 32° 05' 12.57063N" | 110° 02' 41.11146W" |
| IR_17_6422                                           | 32° 05' 12.56950N" | 110° 02' 39.94903W" |
| IR_17_6423                                           | 32° 05' 12.56837N" | 110° 02' 38.78660W" |
| IR_16_6477                                           | 32° 05' 13.57358N" | 110° 02' 55.05936W" |
| IR_16_6478                                           | 32° 05' 13.57249N" | 110° 02' 53.89692W" |
| IR_16_6479                                           | 32° 05' 13.57139N" | 110° 02' 52.73449W" |
| IR_16_6480                                           | 32° 05' 13.57029N" | 110° 02' 51.57205W" |
| IR_16_6481                                           | 32° 05' 13.56919N" | 110° 02' 50.40962W" |
| IR_16_6482                                           | 32° 05' 13.56808N" | 110° 02' 49.24719W" |
| IR_16_6483                                           | 32° 05' 13.56697N" | 110° 02' 48.08475W" |

| Table 4.1-12<br>Stage 3 Injection and Recovery Wells |                    |                     |
|------------------------------------------------------|--------------------|---------------------|
| IR_16_6484                                           | 32° 05' 13.56586N" | 110° 02' 46.92232W" |
| IR_16_6485                                           | 32° 05' 13.56475N" | 110° 02' 45.75988W" |
| IR_16_6486                                           | 32° 05' 13.56363N" | 110° 02' 44.59745W" |
| IR_17_6487                                           | 32° 05' 13.56251N" | 110° 02' 43.43502W" |
| IR_17_6488                                           | 32° 05' 13.56139N" | 110° 02' 42.27258W" |
| IR_17_6489                                           | 32° 05' 13.56026N" | 110° 02' 41.11015W" |
| IR_17_6490                                           | 32° 05' 13.55913N" | 110° 02' 39.94771W" |
| IR_17_6491                                           | 32° 05' 13.55800N" | 110° 02' 38.78528W" |
| IR_17_6492                                           | 32° 05' 13.55687N" | 110° 02' 37.62285W" |
| IR_16_6546                                           | 32° 05' 14.56212N" | 110° 02' 53.89565W" |
| IR_16_6547                                           | 32° 05' 14.56102N" | 110° 02' 52.73321W" |
| IR_16_6548                                           | 32° 05' 14.55992N" | 110° 02' 51.57077W" |
| IR_16_6549                                           | 32° 05' 14.55882N" | 110° 02' 50.40833W" |
| IR_16_6550                                           | 32° 05' 14.55772N" | 110° 02' 49.24590W" |
| IR_16_6551                                           | 32° 05' 14.55661N" | 110° 02' 48.08346W" |
| IR_16_6552                                           | 32° 05' 14.55550N" | 110° 02' 46.92102W" |
| IR_16_6553                                           | 32° 05' 14.55438N" | 110° 02' 45.75859W" |
| IR_16_6554                                           | 32° 05' 14.55327N" | 110° 02' 44.59615W" |
| IR_17_6555                                           | 32° 05' 14.55215N" | 110° 02' 43.43371W" |
| IR_17_6556                                           | 32° 05' 14.55102N" | 110° 02' 42.27127W" |
| IR_17_6557                                           | 32° 05' 14.54990N" | 110° 02' 41.10884W" |
| IR_17_6558                                           | 32° 05' 14.54877N" | 110° 02' 39.94640W" |
| IR_17_6559                                           | 32° 05' 14.54764N" | 110° 02' 38.78396W" |
| IR_17_6560                                           | 32° 05' 14.54650N" | 110° 02' 37.62152W" |
| IR_16_6612                                           | 32° 05' 15.55393N" | 110° 02' 56.21926W" |
| IR_16_6613                                           | 32° 05' 15.55284N" | 110° 02' 55.05682W" |
| IR_16_6614                                           | 32° 05' 15.55175N" | 110° 02' 53.89438W" |
| IR_16_6615                                           | 32° 05' 15.55065N" | 110° 02' 52.73194W" |
| IR_16_6616                                           | 32° 05' 15.54955N" | 110° 02' 51.56949W" |
| IR_16_6617                                           | 32° 05' 15.54845N" | 110° 02' 50.40705W" |
| IR_16_6618                                           | 32° 05' 15.54735N" | 110° 02' 49.24461W" |
| IR_16_6619                                           | 32° 05' 15.54624N" | 110° 02' 48.08217W" |
| IR_16_6620                                           | 32° 05' 15.54513N" | 110° 02' 46.91973W" |
| IR_16_6621                                           | 32° 05' 15.54401N" | 110° 02' 45.75729W" |
| IR_16_6622                                           | 32° 05' 15.54290N" | 110° 02' 44.59485W" |
| IR_17_6623                                           | 32° 05' 15.54178N" | 110° 02' 43.43241W" |
| IR_17_6624                                           | 32° 05' 15.54065N" | 110° 02' 42.26997W" |
| IR_17_6625                                           | 32° 05' 15.53953N" | 110° 02' 41.10753W" |
| IR_17_6626                                           | 32° 05' 15.53840N" | 110° 02' 39.94508W" |
| IR_17_6627                                           | 32° 05' 15.53727N" | 110° 02' 38.78264W" |
| IR_17_6628                                           | 32° 05' 15.53613N" | 110° 02' 37.62020W" |
| IR_16_6680                                           | 32° 05' 16.54357N" | 110° 02' 56.21799W" |
| IR_16_6681                                           | 32° 05' 16.54248N" | 110° 02' 55.05555W" |
| IR_16_6682                                           | 32° 05' 16.54138N" | 110° 02' 53.89310W" |
| IR_16_6683                                           | 32° 05' 16.54029N" | 110° 02' 52.73066W" |
| IR_16_6684                                           | 32° 05' 16.53919N" | 110° 02' 51.56821W" |
| IR_16_6685                                           | 32° 05' 16.53809N" | 110° 02' 50.40577W" |
| IR_16_6686                                           | 32° 05' 16.53698N" | 110° 02' 49.24333W" |
| IR_16_6687                                           | 32° 05' 16.53587N" | 110° 02' 48.08088W" |

| Table 4.1-12<br>Stage 3 Injection and Recovery Wells |                    |                     |
|------------------------------------------------------|--------------------|---------------------|
| IR_16_6688                                           | 32° 05' 16.53476N" | 110° 02' 46.91844W" |
| IR_16_6689                                           | 32° 05' 16.53365N" | 110° 02' 45.75599W" |
| IR_16_6690                                           | 32° 05' 16.53253N" | 110° 02' 44.59355W" |
| IR_17_6691                                           | 32° 05' 16.53141N" | 110° 02' 43.43110W" |
| IR_17_6692                                           | 32° 05' 16.53029N" | 110° 02' 42.26866W" |
| IR_17_6693                                           | 32° 05' 16.52916N" | 110° 02' 41.10622W" |
| IR_17_6694                                           | 32° 05' 16.52803N" | 110° 02' 39.94377W" |
| IR_17_6695                                           | 32° 05' 16.52690N" | 110° 02' 38.78132W" |
| IR_17_6696                                           | 32° 05' 16.52577N" | 110° 02' 37.61888W" |
| IR_16_6749                                           | 32° 05' 17.53211N" | 110° 02' 55.05428W" |
| IR_16_6750                                           | 32° 05' 17.53101N" | 110° 02' 53.89183W" |
| IR_16_6751                                           | 32° 05' 17.52992N" | 110° 02' 52.72938W" |
| IR_16_6752                                           | 32° 05' 17.52882N" | 110° 02' 51.56693W" |
| IR_16_6753                                           | 32° 05' 17.52772N" | 110° 02' 50.40448W" |
| IR_16_6754                                           | 32° 05' 17.52661N" | 110° 02' 49.24204W" |
| IR_16_6755                                           | 32° 05' 17.52550N" | 110° 02' 48.07959W" |
| IR_16_6756                                           | 32° 05' 17.52439N" | 110° 02' 46.91714W" |
| IR_16_6757                                           | 32° 05' 17.52328N" | 110° 02' 45.75469W" |
| IR_16_6758                                           | 32° 05' 17.52216N" | 110° 02' 44.59225W" |
| IR_17_6759                                           | 32° 05' 17.52104N" | 110° 02' 43.42980W" |
| IR_17_6760                                           | 32° 05' 17.51992N" | 110° 02' 42.26735W" |
| IR_17_6761                                           | 32° 05' 17.51879N" | 110° 02' 41.10490W" |
| IR_17_6762                                           | 32° 05' 17.51766N" | 110° 02' 39.94246W" |
| IR_17_6763                                           | 32° 05' 17.51653N" | 110° 02' 38.78001W" |
| IR_17_6764                                           | 32° 05' 17.51540N" | 110° 02' 37.61756W" |
| IR_16_6817                                           | 32° 05' 18.52174N" | 110° 02' 55.05301W" |
| IR_16_6818                                           | 32° 05' 18.52065N" | 110° 02' 53.89056W" |
| IR_16_6819                                           | 32° 05' 18.51955N" | 110° 02' 52.72811W" |
| IR_16_6820                                           | 32° 05' 18.51845N" | 110° 02' 51.56565W" |
| IR_16_6821                                           | 32° 05' 18.51735N" | 110° 02' 50.40320W" |
| IR_16_6822                                           | 32° 05' 18.51624N" | 110° 02' 49.24075W" |
| IR_16_6823                                           | 32° 05' 18.51514N" | 110° 02' 48.07830W" |
| IR_16_6824                                           | 32° 05' 18.51403N" | 110° 02' 46.91585W" |
| IR_16_6825                                           | 32° 05' 18.51291N" | 110° 02' 45.75340W" |
| IR_16_6826                                           | 32° 05' 18.51179N" | 110° 02' 44.59094W" |
| IR_17_6827                                           | 32° 05' 18.51067N" | 110° 02' 43.42850W" |
| IR_17_6828                                           | 32° 05' 18.50955N" | 110° 02' 42.26604W" |
| IR_17_6829                                           | 32° 05' 18.50843N" | 110° 02' 41.10359W" |
| IR_17_6830                                           | 32° 05' 18.50730N" | 110° 02' 39.94114W" |
| IR_17_6831                                           | 32° 05' 18.50616N" | 110° 02' 38.77869W" |
| IR_16_6886                                           | 32° 05' 19.51028N" | 110° 02' 53.88928W" |
| IR_16_6887                                           | 32° 05' 19.50919N" | 110° 02' 52.72683W" |
| IR_16_6888                                           | 32° 05' 19.50809N" | 110° 02' 51.56438W" |
| IR_16_6889                                           | 32° 05' 19.50698N" | 110° 02' 50.40192W" |
| IR_16_6890                                           | 32° 05' 19.50588N" | 110° 02' 49.23947W" |
| IR_16_6891                                           | 32° 05' 19.50477N" | 110° 02' 48.07701W" |
| IR_16_6892                                           | 32° 05' 19.50366N" | 110° 02' 46.91456W" |
| IR_16_6893                                           | 32° 05' 19.50254N" | 110° 02' 45.75210W" |
| IR_16_6894                                           | 32° 05' 19.50143N" | 110° 02' 44.58964W" |

| Table 4.1-12<br>Stage 3 Injection and Recovery Wells |                    |                     |
|------------------------------------------------------|--------------------|---------------------|
| IR_17_6895                                           | 32° 05' 19.50031N" | 110° 02' 43.42719W" |
| IR_17_6896                                           | 32° 05' 19.49918N" | 110° 02' 42.26474W" |
| IR_16_6959                                           | 32° 05' 20.49440N" | 110° 02' 48.07572W" |
| IR_16_6960                                           | 32° 05' 20.49329N" | 110° 02' 46.91326W" |
| IR_16_6961                                           | 32° 05' 20.49218N" | 110° 02' 45.75080W" |
| IR_17_6962                                           | 32° 05' 20.49106N" | 110° 02' 44.58834W" |
| IR_17_6963                                           | 32° 05' 20.48994N" | 110° 02' 43.42589W" |
| IR_16_7028                                           | 32° 05' 21.44399N" | 110° 02' 46.62443W" |
| IR_16_7029                                           | 32° 05' 21.48181N" | 110° 02' 45.74951W" |
| IR_14_7621                                           | 32° 04' 48.14556N" | 110° 02' 42.88429W" |
| IR_14_7622                                           | 32° 04' 49.31594N" | 110° 02' 42.88578W" |
| IR_12_7623                                           | 32° 04' 50.30558N" | 110° 02' 42.88447W" |
| IR_12_7626                                           | 32° 04' 50.30445N" | 110° 02' 41.72212W" |
| IR_14_7627                                           | 32° 04' 49.31482N" | 110° 02' 41.72343W" |
| IR_14_7628                                           | 32° 04' 48.16023N" | 110° 02' 41.71451W" |
| IR_14_7629                                           | 32° 04' 48.15911N" | 110° 02' 40.55217W" |
| IR_14_7630                                           | 32° 04' 49.31369N" | 110° 02' 40.56108W" |
| IR_07_7631                                           | 32° 04' 50.30333N" | 110° 02' 40.55977W" |
| IR_07_7634                                           | 32° 04' 50.30220N" | 110° 02' 39.39742W" |
| IR_14_7635                                           | 32° 04' 49.31256N" | 110° 02' 39.39874W" |
| IR_14_7636                                           | 32° 04' 48.15798N" | 110° 02' 39.38983W" |
| IR_14_7637                                           | 32° 04' 48.15684N" | 110° 02' 38.22748W" |
| IR_14_7638                                           | 32° 04' 49.31143N" | 110° 02' 38.23639W" |
| IR_07_7639                                           | 32° 04' 50.30106N" | 110° 02' 38.23507W" |
| IR_06_7642                                           | 32° 04' 50.29993N" | 110° 02' 37.07271W" |
| IR_14_7643                                           | 32° 04' 49.31029N" | 110° 02' 37.07403W" |
| IR_14_7644                                           | 32° 04' 48.15571N" | 110° 02' 37.06513W" |
| IR_14_7645                                           | 32° 04' 48.15457N" | 110° 02' 35.90279W" |
| IR_14_7646                                           | 32° 04' 49.30915N" | 110° 02' 35.91169W" |
| IR_06_7647                                           | 32° 04' 50.29879N" | 110° 02' 35.91036W" |
| IR_14_7653                                           | 32° 04' 48.15343N" | 110° 02' 34.74044W" |
| IR_14_7654                                           | 32° 04' 49.30801N" | 110° 02' 34.74934W" |
| IR_05_7655                                           | 32° 04' 50.29765N" | 110° 02' 34.74801W" |
| IR_05_7658                                           | 32° 04' 50.29650N" | 110° 02' 33.58566W" |
| IR_14_7659                                           | 32° 04' 49.30687N" | 110° 02' 33.58699W" |
| IR_14_7660                                           | 32° 04' 48.15228N" | 110° 02' 33.57810W" |
| IR_14_7663                                           | 32° 04' 48.15113N" | 110° 02' 32.41576W" |
| IR_14_7664                                           | 32° 04' 49.30572N" | 110° 02' 32.42464W" |
| IR_05_7665                                           | 32° 04' 50.29535N" | 110° 02' 32.42331W" |
| IR_05_7667                                           | 32° 04' 51.28383N" | 110° 02' 31.25961W" |
| IR_05_7668                                           | 32° 04' 50.29420N" | 110° 02' 31.26095W" |
| IR_14_7669                                           | 32° 04' 49.30457N" | 110° 02' 31.26229W" |
| IR_14_7670                                           | 32° 04' 48.14998N" | 110° 02' 31.25341W" |
| IR_14_7673                                           | 32° 04' 48.14883N" | 110° 02' 30.09107W" |
| IR_14_7674                                           | 32° 04' 49.30341N" | 110° 02' 30.09995W" |
| IR_14_7675                                           | 32° 04' 50.29305N" | 110° 02' 30.09860W" |
| IR_14_7676                                           | 32° 04' 51.28268N" | 110° 02' 30.09726W" |
| IR_14_7677                                           | 32° 04' 51.28152N" | 110° 02' 28.93490W" |
| IR_14_7678                                           | 32° 04' 50.29189N" | 110° 02' 28.93625W" |

| Table 4.1-12<br>Stage 3 Injection and Recovery Wells |                    |                     |
|------------------------------------------------------|--------------------|---------------------|
| IR_14_7679                                           | 32° 04' 49.30226N" | 110° 02' 28.93759W" |
| IR_14_7680                                           | 32° 04' 48.14767N" | 110° 02' 28.92872W" |
| IR_14_7683                                           | 32° 04' 48.14652N" | 110° 02' 27.76638W" |
| IR_14_7684                                           | 32° 04' 49.30110N" | 110° 02' 27.77525W" |
| IR_14_7685                                           | 32° 04' 50.29073N" | 110° 02' 27.77390W" |
| IR_14_7686                                           | 32° 04' 51.28036N" | 110° 02' 27.77255W" |
| IR_14_7687                                           | 32° 04' 51.27920N" | 110° 02' 26.61019W" |
| IR_14_7688                                           | 32° 04' 50.28957N" | 110° 02' 26.61154W" |
| IR_14_7689                                           | 32° 04' 49.29993N" | 110° 02' 26.61290W" |
| IR_14_7690                                           | 32° 04' 48.14535N" | 110° 02' 26.60403W" |
| IR_14_7693                                           | 32° 04' 48.14419N" | 110° 02' 25.44169W" |
| IR_14_7694                                           | 32° 04' 49.29877N" | 110° 02' 25.45055W" |
| IR_14_7695                                           | 32° 04' 50.28840N" | 110° 02' 25.44919W" |
| IR_14_7696                                           | 32° 04' 50.28724N" | 110° 02' 24.28684W" |
| IR_14_7697                                           | 32° 04' 49.29760N" | 110° 02' 24.28820W" |
| IR_14_7698                                           | 32° 04' 48.14302N" | 110° 02' 24.27934W" |
| IR_14_7701                                           | 32° 04' 48.14185N" | 110° 02' 23.11700W" |
| IR_14_7702                                           | 32° 04' 49.29643N" | 110° 02' 23.12585W" |
| IR_14_7703                                           | 32° 04' 50.28606N" | 110° 02' 23.12449W" |
| IR_05_7721                                           | 32° 04' 52.27347N" | 110° 02' 31.25827W" |
| IR_14_7722                                           | 32° 04' 52.27231N" | 110° 02' 30.09591W" |
| IR_14_7723                                           | 32° 04' 52.27116N" | 110° 02' 28.93355W" |
| IR_14_7724                                           | 32° 04' 52.27000N" | 110° 02' 27.77120W" |
| IR_14_7725                                           | 32° 04' 53.25963N" | 110° 02' 27.76985W" |
| IR_14_7726                                           | 32° 04' 53.26079N" | 110° 02' 28.93221W" |
| IR_14_7727                                           | 32° 04' 53.26195N" | 110° 02' 30.09457W" |
| IR_02_7728                                           | 32° 04' 53.26310N" | 110° 02' 31.25693W" |
| IR_02_7747                                           | 32° 04' 54.25273N" | 110° 02' 31.25559W" |
| IR_13_7748                                           | 32° 04' 54.25158N" | 110° 02' 30.09323W" |
| IR_14_7749                                           | 32° 04' 54.25042N" | 110° 02' 28.93086W" |
| IR_14_7750                                           | 32° 04' 54.24926N" | 110° 02' 27.76850W" |
| IR_13_7798                                           | 32° 04' 55.24121N" | 110° 02' 30.09188W" |
| IR_13_7797                                           | 32° 04' 55.24006N" | 110° 02' 28.92951W" |
| IR_13_7796                                           | 32° 04' 55.23890N" | 110° 02' 27.76715W" |
| IR_13_7795                                           | 32° 04' 56.22853N" | 110° 02' 27.76580W" |
| IR_13_7861                                           | 32° 04' 59.19743N" | 110° 02' 27.76174W" |
| IR_13_7862                                           | 32° 05' 00.18706N" | 110° 02' 27.76039W" |
| IR_03_7867                                           | 32° 05' 01.18132N" | 110° 02' 32.40860W" |
| IR_13_7868                                           | 32° 05' 01.18016N" | 110° 02' 31.24621W" |
| IR_13_7869                                           | 32° 05' 01.17901N" | 110° 02' 30.08382W" |
| IR_13_7870                                           | 32° 05' 01.17785N" | 110° 02' 28.92143W" |
| IR_13_7871                                           | 32° 05' 01.17669N" | 110° 02' 27.75904W" |
| IR_11_7886                                           | 32° 05' 02.17095N" | 110° 02' 32.40727W" |
| IR_15_7885                                           | 32° 05' 03.15073N" | 110° 02' 32.34596W" |
| IR_13_7766                                           | 32° 04' 57.21816N" | 110° 02' 27.76444W" |
| IR_13_7765                                           | 32° 04' 58.20780N" | 110° 02' 27.76309W" |
| IR_11_7876                                           | 32° 05' 04.15021N" | 110° 02' 32.40459W" |
| IR_11_7875                                           | 32° 05' 05.13985N" | 110° 02' 32.40326W" |
| IR_11_7874                                           | 32° 05' 05.14100N" | 110° 02' 33.56566W" |

| Table 4.1-12<br>Stage 3 Injection and Recovery Wells |                    |                     |
|------------------------------------------------------|--------------------|---------------------|
| IR_11_7873                                           | 32° 05' 05.14214N" | 110° 02' 34.72806W" |
| IR_11_7872                                           | 32° 05' 05.14328N" | 110° 02' 35.89047W" |
| IR_11_7903                                           | 32° 05' 06.13291N" | 110° 02' 35.88914W" |
| IR_11_7902                                           | 32° 05' 07.12255N" | 110° 02' 35.88782W" |
| IR_15_7992                                           | 32° 05' 02.16633N" | 110° 02' 27.75769W" |
| IR_15_7993                                           | 32° 05' 02.16749N" | 110° 02' 28.92008W" |
| IR_15_7994                                           | 32° 05' 02.16865N" | 110° 02' 30.08248W" |
| IR_15_7995                                           | 32° 05' 02.16980N" | 110° 02' 31.24487W" |
| IR_15_7996                                           | 32° 05' 03.15943N" | 110° 02' 31.24353W" |
| IR_15_7997                                           | 32° 05' 03.15828N" | 110° 02' 30.08114W" |
| IR_15_7998                                           | 32° 05' 03.15712N" | 110° 02' 28.91874W" |
| IR_15_7999                                           | 32° 05' 03.15596N" | 110° 02' 27.75634W" |
| IR_15_8000                                           | 32° 05' 03.15480N" | 110° 02' 26.59394W" |
| IR_15_8001                                           | 32° 05' 03.15363N" | 110° 02' 25.43154W" |
| IR_15_8002                                           | 32° 05' 03.15247N" | 110° 02' 24.26915W" |
| IR_15_8003                                           | 32° 05' 04.14443N" | 110° 02' 26.59259W" |
| IR_15_8004                                           | 32° 05' 04.14559N" | 110° 02' 27.75499W" |
| IR_15_8005                                           | 32° 05' 04.14675N" | 110° 02' 28.91739W" |
| IR_15_8006                                           | 32° 05' 04.14791N" | 110° 02' 30.07979W" |
| IR_15_8007                                           | 32° 05' 04.14906N" | 110° 02' 31.24219W" |
| IR_15_8008                                           | 32° 05' 05.13870N" | 110° 02' 31.24085W" |
| IR_15_8009                                           | 32° 05' 05.13754N" | 110° 02' 30.07845W" |
| IR_14_7909                                           | 32° 04' 48.14067N" | 110° 02' 21.95465W" |
| IR_15_8010                                           | 32° 05' 05.13639N" | 110° 02' 28.91604W" |
| IR_14_7910                                           | 32° 04' 48.13950N" | 110° 02' 20.79231W" |
| IR_14_7911                                           | 32° 04' 48.13831N" | 110° 02' 19.62996W" |
| IR_15_8011                                           | 32° 05' 05.13523N" | 110° 02' 27.75364W" |
| IR_15_8012                                           | 32° 05' 06.12602N" | 110° 02' 28.91469W" |
| IR_14_7912                                           | 32° 04' 49.29525N" | 110° 02' 21.96350W" |
| IR_15_8013                                           | 32° 05' 06.12717N" | 110° 02' 30.07710W" |
| IR_14_7913                                           | 32° 04' 49.29408N" | 110° 02' 20.80116W" |
| IR_15_8014                                           | 32° 05' 06.12833N" | 110° 02' 31.23951W" |
| IR_14_7914                                           | 32° 04' 49.29290N" | 110° 02' 19.63881W" |
| IR_15_8015                                           | 32° 05' 06.12948N" | 110° 02' 32.40192W" |
| IR_14_7915                                           | 32° 04' 49.29171N" | 110° 02' 18.47646W" |
| IR_15_8016                                           | 32° 05' 06.13063N" | 110° 02' 33.56433W" |
| IR_14_7916                                           | 32° 04' 50.28489N" | 110° 02' 21.96213W" |
| IR_15_8017                                           | 32° 05' 06.13177N" | 110° 02' 34.72673W" |
| IR_14_7917                                           | 32° 04' 50.28371N" | 110° 02' 20.79978W" |
| IR_15_8018                                           | 32° 05' 07.12141N" | 110° 02' 34.72540W" |
| IR_14_7918                                           | 32° 04' 50.28253N" | 110° 02' 19.63743W" |
| IR_15_8019                                           | 32° 05' 07.12026N" | 110° 02' 33.56299W" |
| IR_14_7919                                           | 32° 04' 50.28135N" | 110° 02' 18.47508W" |
| IR_15_8020                                           | 32° 05' 07.11911N" | 110° 02' 32.40058W" |
| IR_14_7920                                           | 32° 04' 51.27804N" | 110° 02' 25.44783W" |
| IR_15_8021                                           | 32° 05' 07.11796N" | 110° 02' 31.23817W" |
| IR_14_7945                                           | 32° 04' 51.27687N" | 110° 02' 24.28548W" |
| IR_15_8022                                           | 32° 05' 08.10760N" | 110° 02' 31.23683W" |
| IR_14_7921                                           | 32° 04' 51.27570N" | 110° 02' 23.12312W" |

| Table 4.1-12<br>Stage 3 Injection and Recovery Wells |                    |                     |
|------------------------------------------------------|--------------------|---------------------|
| IR_15_8033                                           | 32° 05' 03.19054N" | 110° 03' 03.79066W" |
| IR_15_8023                                           | 32° 05' 08.10875N" | 110° 02' 32.39925W" |
| IR_14_7922                                           | 32° 04' 51.27452N" | 110° 02' 21.96077W" |
| IR_15_8034                                           | 32° 05' 03.19161N" | 110° 03' 04.95306W" |
| IR_15_8024                                           | 32° 05' 08.10990N" | 110° 02' 33.56166W" |
| IR_14_7923                                           | 32° 04' 51.27334N" | 110° 02' 20.79841W" |
| IR_15_8035                                           | 32° 05' 03.19267N" | 110° 03' 06.11546W" |
| IR_15_8025                                           | 32° 05' 08.11104N" | 110° 02' 34.72407W" |
| IR_14_7924                                           | 32° 04' 51.27216N" | 110° 02' 19.63606W" |
| IR_15_8036                                           | 32° 05' 04.18230N" | 110° 03' 06.11423W" |
| IR_15_8026                                           | 32° 05' 08.11218N" | 110° 02' 35.88649W" |
| IR_14_7925                                           | 32° 04' 51.27098N" | 110° 02' 18.47370W" |
| IR_15_8037                                           | 32° 05' 04.18124N" | 110° 03' 04.95182W" |
| IR_15_8027                                           | 32° 05' 09.10067N" | 110° 02' 34.72274W" |
| IR_14_7944                                           | 32° 04' 52.26884N" | 110° 02' 26.60884W" |
| IR_15_8038                                           | 32° 05' 04.18017N" | 110° 03' 03.78942W" |
| IR_15_8028                                           | 32° 05' 09.09953N" | 110° 02' 33.56033W" |
| IR_14_7943                                           | 32° 04' 52.26767N" | 110° 02' 25.44648W" |
| IR_15_8039                                           | 32° 05' 04.17910N" | 110° 03' 02.62702W" |
| IR_15_8029                                           | 32° 05' 09.09838N" | 110° 02' 32.39791W" |
| IR_14_7942                                           | 32° 04' 52.26650N" | 110° 02' 24.28412W" |
| IR_15_8040                                           | 32° 05' 04.17803N" | 110° 03' 01.46462W" |
| IR_15_8030                                           | 32° 05' 09.09723N" | 110° 02' 31.23549W" |
| IR_14_7941                                           | 32° 04' 52.26533N" | 110° 02' 23.12176W" |
| IR_15_8031                                           | 32° 05' 10.08801N" | 110° 02' 32.39657W" |
| IR_14_7940                                           | 32° 04' 52.26416N" | 110° 02' 21.95940W" |
| IR_15_8032                                           | 32° 05' 10.08916N" | 110° 02' 33.55899W" |
| IR_14_7939                                           | 32° 04' 52.26298N" | 110° 02' 20.79704W" |
| IR_14_7938                                           | 32° 04' 53.25847N" | 110° 02' 26.60748W" |
| IR_14_7937                                           | 32° 04' 53.25730N" | 110° 02' 25.44512W" |
| IR_14_7936                                           | 32° 04' 53.25614N" | 110° 02' 24.28276W" |
| IR_14_7935                                           | 32° 04' 53.25496N" | 110° 02' 23.12039W" |
| IR_14_7934                                           | 32° 04' 53.25379N" | 110° 02' 21.95803W" |
| IR_14_7933                                           | 32° 04' 53.25261N" | 110° 02' 20.79567W" |
| IR_14_7932                                           | 32° 04' 54.24810N" | 110° 02' 26.60613W" |
| IR_14_7931                                           | 32° 04' 54.24694N" | 110° 02' 25.44376W" |
| IR_14_7930                                           | 32° 04' 54.24577N" | 110° 02' 24.28140W" |
| IR_14_7929                                           | 32° 04' 54.24460N" | 110° 02' 23.11903W" |
| IR_14_7928                                           | 32° 04' 54.24342N" | 110° 02' 21.95666W" |
| IR_15_7927                                           | 32° 04' 54.24224N" | 110° 02' 20.79430W" |
| IR_15_7926                                           | 32° 04' 54.24106N" | 110° 02' 19.63193W" |
| IR_14_7946                                           | 32° 04' 55.23774N" | 110° 02' 26.60477W" |
| IR_14_7947                                           | 32° 04' 55.23657N" | 110° 02' 25.44240W" |
| IR_15_7948                                           | 32° 04' 55.23540N" | 110° 02' 24.28004W" |
| IR_15_7949                                           | 32° 04' 55.23423N" | 110° 02' 23.11767W" |
| IR_15_7950                                           | 32° 04' 55.23306N" | 110° 02' 21.95530W" |
| IR_15_7951                                           | 32° 04' 55.23188N" | 110° 02' 20.79293W" |
| IR_15_7952                                           | 32° 04' 55.23070N" | 110° 02' 19.63056W" |
| IR_15_7953                                           | 32° 04' 56.22033N" | 110° 02' 19.62918W" |

| Table 4.1-12<br>Stage 3 Injection and Recovery Wells |                    |                     |
|------------------------------------------------------|--------------------|---------------------|
| IR_15_7954                                           | 32° 04' 56.22151N" | 110° 02' 20.79156W" |
| IR_15_7955                                           | 32° 04' 56.22269N" | 110° 02' 21.95393W" |
| IR_15_7956                                           | 32° 04' 56.22386N" | 110° 02' 23.11630W" |
| IR_15_7957                                           | 32° 04' 56.20449N" | 110° 02' 24.26816W" |
| IR_15_7958                                           | 32° 04' 56.22620N" | 110° 02' 25.44105W" |
| IR_15_7959                                           | 32° 04' 56.22737N" | 110° 02' 26.60342W" |
| IR_15_7960                                           | 32° 04' 57.21700N" | 110° 02' 26.60207W" |
| IR_15_7961                                           | 32° 04' 57.21584N" | 110° 02' 25.43969W" |
| IR_15_7962                                           | 32° 04' 57.21467N" | 110° 02' 24.27732W" |
| IR_15_7963                                           | 32° 04' 57.21350N" | 110° 02' 23.11494W" |
| IR_15_7964                                           | 32° 04' 57.21232N" | 110° 02' 21.95256W" |
| IR_15_7965                                           | 32° 04' 57.21114N" | 110° 02' 20.79019W" |
| IR_15_7966                                           | 32° 04' 57.20996N" | 110° 02' 19.62781W" |
| IR_15_7967                                           | 32° 04' 58.20664N" | 110° 02' 26.60071W" |
| IR_15_7968                                           | 32° 04' 58.20547N" | 110° 02' 25.43833W" |
| IR_15_7969                                           | 32° 04' 58.20430N" | 110° 02' 24.27595W" |
| IR_15_7970                                           | 32° 04' 58.20313N" | 110° 02' 23.11357W" |
| IR_15_7971                                           | 32° 04' 58.20195N" | 110° 02' 21.95119W" |
| IR_15_7972                                           | 32° 04' 58.20078N" | 110° 02' 20.78881W" |
| IR_15_7973                                           | 32° 04' 59.19041N" | 110° 02' 20.78744W" |
| IR_15_7974                                           | 32° 04' 59.19159N" | 110° 02' 21.94982W" |
| IR_15_7975                                           | 32° 04' 59.19276N" | 110° 02' 23.11221W" |
| IR_15_7976                                           | 32° 04' 59.19393N" | 110° 02' 24.27459W" |
| IR_15_7977                                           | 32° 04' 59.19510N" | 110° 02' 25.43697W" |
| IR_15_7978                                           | 32° 04' 59.18605N" | 110° 02' 26.60901W" |
| IR_15_7979                                           | 32° 05' 00.18590N" | 110° 02' 26.59800W" |
| IR_15_7980                                           | 32° 05' 00.18473N" | 110° 02' 25.43562W" |
| IR_15_7981                                           | 32° 05' 00.18357N" | 110° 02' 24.27323W" |
| IR_15_7982                                           | 32° 05' 00.18239N" | 110° 02' 23.11084W" |
| IR_15_7983                                           | 32° 05' 00.18122N" | 110° 02' 21.94846W" |
| IR_15_7984                                           | 32° 05' 00.18004N" | 110° 02' 20.78607W" |
| IR_15_7985                                           | 32° 05' 01.17203N" | 110° 02' 23.10948W" |
| IR_15_7986                                           | 32° 05' 01.17320N" | 110° 02' 24.27187W" |
| IR_15_7987                                           | 32° 05' 01.17437N" | 110° 02' 25.43426W" |
| IR_15_7988                                           | 32° 05' 01.17553N" | 110° 02' 26.59665W" |
| IR_15_7989                                           | 32° 05' 02.16283N" | 110° 02' 24.27051W" |
| IR_15_7990                                           | 32° 05' 02.16400N" | 110° 02' 25.43290W" |
| IR_15_7991                                           | 32° 05' 02.16517N" | 110° 02' 26.59530W" |
| IR_15_8041                                           | 32° 05' 01.21127N" | 110° 03' 03.79315W" |
| IR_15_8042                                           | 32° 05' 01.21020N" | 110° 03' 02.63076W" |
| IR_15_8043                                           | 32° 05' 01.20913N" | 110° 03' 01.46837W" |
| IR_15_8044                                           | 32° 05' 01.20805N" | 110° 03' 00.30598W" |
| IR_15_8045                                           | 32° 05' 01.20697N" | 110° 02' 59.14359W" |
| IR_15_8046                                           | 32° 05' 01.20589N" | 110° 02' 57.98119W" |
| IR_15_8047                                           | 32° 05' 01.20480N" | 110° 02' 56.81881W" |
| IR_15_8048                                           | 32° 05' 01.20371N" | 110° 02' 55.65641W" |
| IR_15_8049                                           | 32° 05' 02.20091N" | 110° 03' 03.79191W" |
| IR_15_8050                                           | 32° 05' 02.20197N" | 110° 03' 04.95430W" |
| IR_15_8051                                           | 32° 05' 02.19983N" | 110° 03' 02.62951W" |

| Table 4.1-12<br>Stage 3 Injection and Recovery Wells |                    |                     |
|------------------------------------------------------|--------------------|---------------------|
| IR_15_8052                                           | 32° 05' 02.19876N" | 110° 03' 01.46712W" |
| IR_15_8053                                           | 32° 05' 02.19768N" | 110° 03' 00.30473W" |
| IR_15_8054                                           | 32° 05' 02.19660N" | 110° 02' 59.14233W" |
| IR_15_8055                                           | 32° 05' 02.19552N" | 110° 02' 57.97993W" |
| IR_15_8056                                           | 32° 05' 02.19444N" | 110° 02' 56.81754W" |
| IR_15_8057                                           | 32° 05' 02.19335N" | 110° 02' 55.65515W" |
| IR_15_8058                                           | 32° 05' 02.19198N" | 110° 02' 54.20518W" |
| IR_16_8060                                           | 32° 05' 03.17970N" | 110° 02' 52.16669W" |
| IR_16_8061                                           | 32° 05' 03.18079N" | 110° 02' 53.32908W" |
| IR_16_8062                                           | 32° 05' 03.18160N" | 110° 02' 54.18878W" |
| IR_15_8063                                           | 32° 05' 03.18298N" | 110° 02' 55.65388W" |
| IR_15_8064                                           | 32° 05' 03.18407N" | 110° 02' 56.81628W" |
| IR_15_8065                                           | 32° 05' 03.18516N" | 110° 02' 57.97867W" |
| IR_15_8066                                           | 32° 05' 03.18624N" | 110° 02' 59.14107W" |
| IR_15_8067                                           | 32° 05' 03.18732N" | 110° 03' 00.30347W" |
| IR_15_8068                                           | 32° 05' 03.18839N" | 110° 03' 01.46587W" |
| IR_15_8069                                           | 32° 05' 03.18947N" | 110° 03' 02.62827W" |
| IR_15_8070                                           | 32° 05' 04.17695N" | 110° 03' 00.30222W" |
| IR_15_8071                                           | 32° 05' 04.17587N" | 110° 02' 59.13982W" |
| IR_15_8072                                           | 32° 05' 04.17479N" | 110° 02' 57.97741W" |
| IR_15_8073                                           | 32° 05' 04.17370N" | 110° 02' 56.81501W" |
| IR_15_8074                                           | 32° 05' 04.17261N" | 110° 02' 55.65261W" |
| IR_15_8075                                           | 32° 05' 04.17152N" | 110° 02' 54.49021W" |
| IR_16_8076                                           | 32° 05' 04.17043N" | 110° 02' 53.32781W" |
| IR_16_8077                                           | 32° 05' 04.16933N" | 110° 02' 52.16541W" |
| IR_16_8078                                           | 32° 05' 04.16794N" | 110° 02' 50.70030W" |
| IR_16_8080                                           | 32° 05' 05.15565N" | 110° 02' 48.67692W" |
| IR_16_8081                                           | 32° 05' 05.15676N" | 110° 02' 49.83932W" |
| IR_16_8082                                           | 32° 05' 05.15759N" | 110° 02' 50.71416W" |
| IR_16_8083                                           | 32° 05' 05.15896N" | 110° 02' 52.16413W" |
| IR_16_8084                                           | 32° 05' 05.16006N" | 110° 02' 53.32654W" |
| IR_15_8085                                           | 32° 05' 05.16115N" | 110° 02' 54.48894W" |
| IR_15_8086                                           | 32° 05' 05.16225N" | 110° 02' 55.65134W" |
| IR_15_8087                                           | 32° 05' 05.16333N" | 110° 02' 56.81375W" |
| IR_15_8088                                           | 32° 05' 05.16442N" | 110° 02' 57.97615W" |
| IR_15_8089                                           | 32° 05' 05.16550N" | 110° 02' 59.13856W" |
| IR_15_8090                                           | 32° 05' 05.16658N" | 110° 03' 00.30097W" |
| IR_15_8091                                           | 32° 05' 05.16766N" | 110° 03' 01.46337W" |
| IR_15_8092                                           | 32° 05' 05.16873N" | 110° 03' 02.62577W" |
| IR_15_8093                                           | 32° 05' 05.16981N" | 110° 03' 03.78818W" |
| IR_15_8094                                           | 32° 05' 05.17087N" | 110° 03' 04.95058W" |
| IR_15_8095                                           | 32° 05' 06.16050N" | 110° 03' 04.94934W" |
| IR_15_8096                                           | 32° 05' 06.15944N" | 110° 03' 03.78693W" |
| IR_15_8097                                           | 32° 05' 06.15837N" | 110° 03' 02.62453W" |
| IR_15_8098                                           | 32° 05' 06.15729N" | 110° 03' 01.46212W" |
| IR_15_8099                                           | 32° 05' 06.15621N" | 110° 03' 00.29971W" |
| IR_15_8100                                           | 32° 05' 06.15513N" | 110° 02' 59.13730W" |
| IR_15_8101                                           | 32° 05' 06.15405N" | 110° 02' 57.97489W" |
| IR_15_8102                                           | 32° 05' 06.15297N" | 110° 02' 56.81249W" |

| Table 4.1-12<br>Stage 3 Injection and Recovery Wells |                    |                     |
|------------------------------------------------------|--------------------|---------------------|
| IR_15_8103                                           | 32° 05' 06.15188N" | 110° 02' 55.65008W" |
| IR_15_8104                                           | 32° 05' 06.15079N" | 110° 02' 54.48767W" |
| IR_16_8105                                           | 32° 05' 06.14969N" | 110° 02' 53.32526W" |
| IR_16_8106                                           | 32° 05' 06.14859N" | 110° 02' 52.16285W" |
| IR_16_8107                                           | 32° 05' 06.14749N" | 110° 02' 51.00045W" |
| IR_16_8108                                           | 32° 05' 06.14639N" | 110° 02' 49.83804W" |
| IR_16_8109                                           | 32° 05' 06.14528N" | 110° 02' 48.67563W" |
| IR_16_8110                                           | 32° 05' 06.14390N" | 110° 02' 47.22565W" |
| IR_16_8112                                           | 32° 05' 07.13158N" | 110° 02' 45.18711W" |
| IR_16_8113                                           | 32° 05' 07.13269N" | 110° 02' 46.34952W" |
| IR_16_8114                                           | 32° 05' 07.13353N" | 110° 02' 47.22436W" |
| IR_16_8115                                           | 32° 05' 07.13492N" | 110° 02' 48.67434W" |
| IR_16_8116                                           | 32° 05' 07.13602N" | 110° 02' 49.83675W" |
| IR_16_8117                                           | 32° 05' 07.13713N" | 110° 02' 50.99917W" |
| IR_16_8118                                           | 32° 05' 07.13823N" | 110° 02' 52.16157W" |
| IR_16_8119                                           | 32° 05' 07.13932N" | 110° 02' 53.32399W" |
| IR_15_8120                                           | 32° 05' 07.14042N" | 110° 02' 54.48640W" |
| IR_15_8121                                           | 32° 05' 07.14151N" | 110° 02' 55.64881W" |
| IR_15_8122                                           | 32° 05' 07.14260N" | 110° 02' 56.81122W" |
| IR_15_8123                                           | 32° 05' 07.14369N" | 110° 02' 57.97363W" |
| IR_15_8124                                           | 32° 05' 07.14477N" | 110° 02' 59.13605W" |
| IR_15_8125                                           | 32° 05' 07.14585N" | 110° 03' 00.29846W" |
| IR_15_8126                                           | 32° 05' 07.14693N" | 110° 03' 01.46087W" |
| IR_15_8127                                           | 32° 05' 07.14800N" | 110° 03' 02.62328W" |
| IR_15_8128                                           | 32° 05' 07.14907N" | 110° 03' 03.78569W" |
| IR_15_8129                                           | 32° 05' 06.98029N" | 110° 03' 04.74651W" |
| IR_15_8130                                           | 32° 05' 07.72921N" | 110° 03' 04.45233W" |
| IR_15_8131                                           | 32° 05' 08.13870N" | 110° 03' 03.78445W" |
| IR_15_8132                                           | 32° 05' 08.13763N" | 110° 03' 02.62203W" |
| IR_15_8133                                           | 32° 05' 08.13656N" | 110° 03' 01.45962W" |
| IR_15_8134                                           | 32° 05' 08.13548N" | 110° 03' 00.29721W" |
| IR_15_8135                                           | 32° 05' 08.13440N" | 110° 02' 59.13479W" |
| IR_15_8136                                           | 32° 05' 08.13332N" | 110° 02' 57.97237W" |
| IR_15_8137                                           | 32° 05' 08.13223N" | 110° 02' 56.80996W" |
| IR_15_8138                                           | 32° 05' 08.13115N" | 110° 02' 55.64754W" |
| IR_15_8139                                           | 32° 05' 08.13005N" | 110° 02' 54.48513W" |
| IR_16_8140                                           | 32° 05' 08.12896N" | 110° 02' 53.32271W" |
| IR_16_8141                                           | 32° 05' 08.12786N" | 110° 02' 52.16030W" |
| IR_16_8142                                           | 32° 05' 08.12676N" | 110° 02' 50.99788W" |
| IR_16_8143                                           | 32° 05' 08.12566N" | 110° 02' 49.83547W" |
| IR_16_8144                                           | 32° 05' 08.12455N" | 110° 02' 48.67305W" |
| IR_16_8145                                           | 32° 05' 08.12344N" | 110° 02' 47.51064W" |
| IR_16_8146                                           | 32° 05' 08.12233N" | 110° 02' 46.34822W" |
| IR_16_8147                                           | 32° 05' 08.12121N" | 110° 02' 45.18581W" |
| IR_16_8148                                           | 32° 05' 08.07139N" | 110° 02' 43.73632W" |
| IR_16_8151                                           | 32° 05' 09.10830N" | 110° 02' 42.54182W" |
| IR_16_8152                                           | 32° 05' 09.10946N" | 110° 02' 43.74965W" |
| IR_16_8153                                           | 32° 05' 09.11084N" | 110° 02' 45.18451W" |
| IR_16_8154                                           | 32° 05' 09.11196N" | 110° 02' 46.34693W" |

| <b>Table 4.1-12</b>                         |                    |                     |
|---------------------------------------------|--------------------|---------------------|
| <b>Stage 3 Injection and Recovery Wells</b> |                    |                     |
| IR_16_8155                                  | 32° 05' 09.11307N" | 110° 02' 47.50935W" |
| IR_16_8156                                  | 32° 05' 09.11418N" | 110° 02' 48.67177W" |
| IR_16_8157                                  | 32° 05' 09.11529N" | 110° 02' 49.83418W" |
| IR_16_8158                                  | 32° 05' 09.11639N" | 110° 02' 50.99660W" |
| IR_16_8159                                  | 32° 05' 09.11749N" | 110° 02' 52.15902W" |
| IR_16_8160                                  | 32° 05' 09.11859N" | 110° 02' 53.32144W" |
| IR_15_8161                                  | 32° 05' 09.11968N" | 110° 02' 54.48386W" |
| IR_15_8162                                  | 32° 05' 09.12078N" | 110° 02' 55.64628W" |
| IR_15_8163                                  | 32° 05' 09.12187N" | 110° 02' 56.80870W" |
| IR_15_8164                                  | 32° 05' 09.12295N" | 110° 02' 57.97111W" |
| IR_15_8165                                  | 32° 05' 09.12403N" | 110° 02' 59.13353W" |
| IR_15_8166                                  | 32° 05' 09.12511N" | 110° 03' 00.29595W" |
| IR_15_8167                                  | 32° 05' 09.12619N" | 110° 03' 01.45837W" |
| IR_15_8168                                  | 32° 05' 09.12726N" | 110° 03' 02.62079W" |
| IR_15_8169                                  | 32° 05' 09.12834N" | 110° 03' 03.78320W" |
| IR_15_8170                                  | 32° 05' 10.11763N" | 110° 03' 03.41618W" |
| IR_15_8171                                  | 32° 05' 10.11690N" | 110° 03' 02.61954W" |
| IR_15_8172                                  | 32° 05' 10.11582N" | 110° 03' 01.45712W" |
| IR_15_8173                                  | 32° 05' 10.11475N" | 110° 03' 00.29470W" |
| IR_15_8174                                  | 32° 05' 10.11367N" | 110° 02' 59.13227W" |
| IR_15_8175                                  | 32° 05' 10.11259N" | 110° 02' 57.96985W" |
| IR_15_8176                                  | 32° 05' 10.11150N" | 110° 02' 56.80743W" |
| IR_15_8177                                  | 32° 05' 10.11041N" | 110° 02' 55.64501W" |
| IR_15_8178                                  | 32° 05' 10.10932N" | 110° 02' 54.48259W" |
| IR_16_8179                                  | 32° 05' 10.10822N" | 110° 02' 53.32016W" |
| IR_16_8180                                  | 32° 05' 10.10713N" | 110° 02' 52.15774W" |
| IR_16_8181                                  | 32° 05' 10.10603N" | 110° 02' 50.99532W" |
| IR_16_8182                                  | 32° 05' 10.10492N" | 110° 02' 49.83290W" |
| IR_16_8183                                  | 32° 05' 10.10382N" | 110° 02' 48.67048W" |
| IR_16_8184                                  | 32° 05' 10.10271N" | 110° 02' 47.50806W" |
| IR_16_8185                                  | 32° 05' 10.10159N" | 110° 02' 46.34563W" |
| IR_16_8186                                  | 32° 05' 10.10048N" | 110° 02' 45.18321W" |
| IR_16_8187                                  | 32° 05' 10.09936N" | 110° 02' 44.02079W" |
| IR_17_8188                                  | 32° 05' 10.09795N" | 110° 02' 42.55565W" |
| IR_17_8189                                  | 32° 05' 10.09711N" | 110° 02' 41.69595W" |
| IR_17_8190                                  | 32° 05' 10.09599N" | 110° 02' 40.53352W" |
| IR_17_8191                                  | 32° 05' 11.08449N" | 110° 02' 39.36979W" |
| IR_17_8192                                  | 32° 05' 11.08562N" | 110° 02' 40.53221W" |
| IR_17_8193                                  | 32° 05' 11.08675N" | 110° 02' 41.69464W" |
| IR_16_8194                                  | 32° 05' 11.08787N" | 110° 02' 42.85706W" |
| IR_16_8195                                  | 32° 05' 11.08899N" | 110° 02' 44.01949W" |
| IR_16_8196                                  | 32° 05' 11.09011N" | 110° 02' 45.18191W" |
| IR_16_8197                                  | 32° 05' 11.09123N" | 110° 02' 46.34434W" |
| IR_16_8198                                  | 32° 05' 11.09234N" | 110° 02' 47.50676W" |
| IR_16_8199                                  | 32° 05' 11.09345N" | 110° 02' 48.66919W" |
| IR_16_8200                                  | 32° 05' 11.09456N" | 110° 02' 49.83161W" |
| IR_16_8201                                  | 32° 05' 11.09566N" | 110° 02' 50.99404W" |
| IR_16_8202                                  | 32° 05' 11.09676N" | 110° 02' 52.15646W" |
| IR_16_8203                                  | 32° 05' 11.09786N" | 110° 02' 53.31889W" |

| Table 4.1-12<br>Stage 3 Injection and Recovery Wells |                    |                     |
|------------------------------------------------------|--------------------|---------------------|
| IR_16_8204                                           | 32° 05' 11.09895N" | 110° 02' 54.48132W" |
| IR_15_8205                                           | 32° 05' 11.10004N" | 110° 02' 55.64374W" |
| IR_15_8206                                           | 32° 05' 11.10113N" | 110° 02' 56.80617W" |
| IR_15_8207                                           | 32° 05' 11.10222N" | 110° 02' 57.96859W" |
| IR_15_8208                                           | 32° 05' 11.10330N" | 110° 02' 59.13102W" |
| IR_15_8209                                           | 32° 05' 12.09293N" | 110° 02' 59.12976W" |
| IR_15_8210                                           | 32° 05' 12.09185N" | 110° 02' 57.96733W" |
| IR_15_8211                                           | 32° 05' 12.09076N" | 110° 02' 56.80490W" |
| IR_15_8212                                           | 32° 05' 12.08968N" | 110° 02' 55.64247W" |
| IR_16_8213                                           | 32° 05' 12.08858N" | 110° 02' 54.48005W" |
| IR_16_8214                                           | 32° 05' 12.08749N" | 110° 02' 53.31762W" |
| IR_16_8215                                           | 32° 05' 12.08639N" | 110° 02' 52.15519W" |
| IR_16_8216                                           | 32° 05' 12.08529N" | 110° 02' 50.99276W" |
| IR_16_8217                                           | 32° 05' 12.08419N" | 110° 02' 49.83033W" |
| IR_16_8218                                           | 32° 05' 12.08308N" | 110° 02' 48.66790W" |
| IR_16_8219                                           | 32° 05' 12.08197N" | 110° 02' 47.50547W" |
| IR_16_8220                                           | 32° 05' 12.08086N" | 110° 02' 46.34304W" |
| IR_16_8221                                           | 32° 05' 12.07974N" | 110° 02' 45.18061W" |
| IR_16_8222                                           | 32° 05' 12.07862N" | 110° 02' 44.01818W" |
| IR_17_8223                                           | 32° 05' 12.07750N" | 110° 02' 42.85575W" |
| IR_17_8224                                           | 32° 05' 12.07638N" | 110° 02' 41.69333W" |
| IR_17_8225                                           | 32° 05' 12.07525N" | 110° 02' 40.53090W" |
| IR_17_8226                                           | 32° 05' 12.07412N" | 110° 02' 39.36847W" |
| IR_17_8227                                           | 32° 05' 12.07299N" | 110° 02' 38.20604W" |
| IR_17_8228                                           | 32° 05' 13.06148N" | 110° 02' 37.04229W" |
| IR_17_8229                                           | 32° 05' 13.06262N" | 110° 02' 38.20472W" |
| IR_17_8230                                           | 32° 05' 13.06375N" | 110° 02' 39.36716W" |
| IR_17_8231                                           | 32° 05' 13.06488N" | 110° 02' 40.52958W" |
| IR_17_8232                                           | 32° 05' 13.06601N" | 110° 02' 41.69202W" |
| IR_17_8233                                           | 32° 05' 13.06714N" | 110° 02' 42.85445W" |
| IR_16_8234                                           | 32° 05' 13.06826N" | 110° 02' 44.01688W" |
| IR_16_8235                                           | 32° 05' 13.06938N" | 110° 02' 45.17932W" |
| IR_16_8236                                           | 32° 05' 13.07049N" | 110° 02' 46.34175W" |
| IR_16_8237                                           | 32° 05' 13.07160N" | 110° 02' 47.50418W" |
| IR_16_8238                                           | 32° 05' 13.07271N" | 110° 02' 48.66661W" |
| IR_16_8239                                           | 32° 05' 13.07382N" | 110° 02' 49.82904W" |
| IR_16_8240                                           | 32° 05' 13.07492N" | 110° 02' 50.99148W" |
| IR_16_8241                                           | 32° 05' 13.07602N" | 110° 02' 52.15391W" |
| IR_16_8242                                           | 32° 05' 13.07712N" | 110° 02' 53.31634W" |
| IR_16_8243                                           | 32° 05' 13.07822N" | 110° 02' 54.47878W" |
| IR_15_8244                                           | 32° 05' 13.07931N" | 110° 02' 55.64121W" |
| IR_16_8245                                           | 32° 05' 14.06894N" | 110° 02' 55.63994W" |
| IR_16_8246                                           | 32° 05' 14.06785N" | 110° 02' 54.47750W" |
| IR_16_8247                                           | 32° 05' 14.06675N" | 110° 02' 53.31507W" |
| IR_16_8248                                           | 32° 05' 14.06566N" | 110° 02' 52.15263W" |
| IR_16_8249                                           | 32° 05' 14.06455N" | 110° 02' 50.99020W" |
| IR_16_8250                                           | 32° 05' 14.06345N" | 110° 02' 49.82776W" |
| IR_16_8251                                           | 32° 05' 14.06234N" | 110° 02' 48.66533W" |
| IR_16_8252                                           | 32° 05' 14.06123N" | 110° 02' 47.50289W" |

| Table 4.1-12<br>Stage 3 Injection and Recovery Wells |                    |                     |
|------------------------------------------------------|--------------------|---------------------|
| IR_16_8253                                           | 32° 05' 14.06012N" | 110° 02' 46.34045W" |
| IR_16_8254                                           | 32° 05' 14.05901N" | 110° 02' 45.17802W" |
| IR_16_8255                                           | 32° 05' 14.05789N" | 110° 02' 44.01558W" |
| IR_17_8256                                           | 32° 05' 14.05677N" | 110° 02' 42.85314W" |
| IR_17_8257                                           | 32° 05' 14.05564N" | 110° 02' 41.69071W" |
| IR_17_8258                                           | 32° 05' 14.05451N" | 110° 02' 40.52827W" |
| IR_17_8259                                           | 32° 05' 14.05338N" | 110° 02' 39.36584W" |
| IR_17_8260                                           | 32° 05' 14.05225N" | 110° 02' 38.20340W" |
| IR_17_8261                                           | 32° 05' 14.05111N" | 110° 02' 37.04096W" |
| IR_17_8262                                           | 32° 05' 15.04075N" | 110° 02' 37.03964W" |
| IR_17_8263                                           | 32° 05' 15.04188N" | 110° 02' 38.20208W" |
| IR_17_8264                                           | 32° 05' 15.04302N" | 110° 02' 39.36452W" |
| IR_17_8265                                           | 32° 05' 15.04415N" | 110° 02' 40.52696W" |
| IR_17_8266                                           | 32° 05' 15.04528N" | 110° 02' 41.68940W" |
| IR_17_8267                                           | 32° 05' 15.04640N" | 110° 02' 42.85184W" |
| IR_16_8268                                           | 32° 05' 15.04752N" | 110° 02' 44.01428W" |
| IR_16_8269                                           | 32° 05' 15.04864N" | 110° 02' 45.17672W" |
| IR_16_8270                                           | 32° 05' 15.04976N" | 110° 02' 46.33916W" |
| IR_16_8271                                           | 32° 05' 15.05087N" | 110° 02' 47.50160W" |
| IR_16_8272                                           | 32° 05' 15.05198N" | 110° 02' 48.66404W" |
| IR_16_8273                                           | 32° 05' 15.05308N" | 110° 02' 49.82647W" |
| IR_16_8274                                           | 32° 05' 15.05419N" | 110° 02' 50.98892W" |
| IR_16_8275                                           | 32° 05' 15.05529N" | 110° 02' 52.15135W" |
| IR_16_8276                                           | 32° 05' 15.05639N" | 110° 02' 53.31379W" |
| IR_16_8277                                           | 32° 05' 15.05748N" | 110° 02' 54.47623W" |
| IR_16_8278                                           | 32° 05' 15.05857N" | 110° 02' 55.63867W" |
| IR_16_8279                                           | 32° 05' 15.05966N" | 110° 02' 56.80111W" |
| IR_16_8280                                           | 32° 05' 16.04930N" | 110° 02' 56.79985W" |
| IR_16_8281                                           | 32° 05' 16.04821N" | 110° 02' 55.63740W" |
| IR_16_8282                                           | 32° 05' 16.04712N" | 110° 02' 54.47496W" |
| IR_16_8283                                           | 32° 05' 16.04602N" | 110° 02' 53.31252W" |
| IR_16_8284                                           | 32° 05' 16.04492N" | 110° 02' 52.15007W" |
| IR_16_8285                                           | 32° 05' 16.04382N" | 110° 02' 50.98763W" |
| IR_16_8286                                           | 32° 05' 16.04272N" | 110° 02' 49.82519W" |
| IR_16_8287                                           | 32° 05' 16.04161N" | 110° 02' 48.66275W" |
| IR_16_8288                                           | 32° 05' 16.04050N" | 110° 02' 47.50030W" |
| IR_16_8289                                           | 32° 05' 16.03939N" | 110° 02' 46.33786W" |
| IR_16_8290                                           | 32° 05' 16.03827N" | 110° 02' 45.17542W" |
| IR_16_8291                                           | 32° 05' 16.03716N" | 110° 02' 44.01298W" |
| IR_17_8292                                           | 32° 05' 16.03603N" | 110° 02' 42.85053W" |
| IR_17_8293                                           | 32° 05' 16.03491N" | 110° 02' 41.68809W" |
| IR_17_8294                                           | 32° 05' 16.03378N" | 110° 02' 40.52565W" |
| IR_17_8295                                           | 32° 05' 16.03265N" | 110° 02' 39.36321W" |
| IR_17_8296                                           | 32° 05' 16.03152N" | 110° 02' 38.20076W" |
| IR_17_8297                                           | 32° 05' 16.03038N" | 110° 02' 37.03832W" |
| IR_17_8298                                           | 32° 05' 17.02001N" | 110° 02' 37.03700W" |
| IR_17_8299                                           | 32° 05' 17.02115N" | 110° 02' 38.19944W" |
| IR_17_8300                                           | 32° 05' 17.02228N" | 110° 02' 39.36189W" |
| IR_17_8301                                           | 32° 05' 17.02341N" | 110° 02' 40.52433W" |

| Table 4.1-12<br>Stage 3 Injection and Recovery Wells |                    |                     |
|------------------------------------------------------|--------------------|---------------------|
| IR_17_8302                                           | 32° 05' 17.02454N" | 110° 02' 41.68678W" |
| IR_17_8303                                           | 32° 05' 17.02566N" | 110° 02' 42.84923W" |
| IR_16_8304                                           | 32° 05' 17.02679N" | 110° 02' 44.01167W" |
| IR_16_8305                                           | 32° 05' 17.02790N" | 110° 02' 45.17412W" |
| IR_16_8306                                           | 32° 05' 17.02902N" | 110° 02' 46.33657W" |
| IR_16_8307                                           | 32° 05' 17.03013N" | 110° 02' 47.49901W" |
| IR_16_8308                                           | 32° 05' 17.03124N" | 110° 02' 48.66146W" |
| IR_16_8309                                           | 32° 05' 17.03235N" | 110° 02' 49.82390W" |
| IR_16_8310                                           | 32° 05' 17.03345N" | 110° 02' 50.98635W" |
| IR_16_8311                                           | 32° 05' 17.03455N" | 110° 02' 52.14880W" |
| IR_16_8312                                           | 32° 05' 17.03565N" | 110° 02' 53.31124W" |
| IR_16_8313                                           | 32° 05' 17.03675N" | 110° 02' 54.47369W" |
| IR_16_8314                                           | 32° 05' 17.03784N" | 110° 02' 55.63614W" |
| IR_16_8315                                           | 32° 05' 18.02747N" | 110° 02' 55.63487W" |
| IR_16_8316                                           | 32° 05' 18.02638N" | 110° 02' 54.47242W" |
| IR_16_8317                                           | 32° 05' 18.02528N" | 110° 02' 53.30997W" |
| IR_16_8318                                           | 32° 05' 18.02419N" | 110° 02' 52.14752W" |
| IR_16_8319                                           | 32° 05' 18.02309N" | 110° 02' 50.98507W" |
| IR_16_8320                                           | 32° 05' 18.02198N" | 110° 02' 49.82262W" |
| IR_16_8321                                           | 32° 05' 18.02088N" | 110° 02' 48.66017W" |
| IR_16_8322                                           | 32° 05' 18.01977N" | 110° 02' 47.49772W" |
| IR_16_8323                                           | 32° 05' 18.01865N" | 110° 02' 46.33527W" |
| IR_16_8324                                           | 32° 05' 18.01754N" | 110° 02' 45.17282W" |
| IR_16_8325                                           | 32° 05' 18.01642N" | 110° 02' 44.01037W" |
| IR_17_8326                                           | 32° 05' 18.01530N" | 110° 02' 42.84792W" |
| IR_17_8327                                           | 32° 05' 18.01417N" | 110° 02' 41.68547W" |
| IR_17_8328                                           | 32° 05' 18.01305N" | 110° 02' 40.52302W" |
| IR_17_8329                                           | 32° 05' 18.01192N" | 110° 02' 39.36057W" |
| IR_17_8330                                           | 32° 05' 18.01078N" | 110° 02' 38.19812W" |
| IR_17_8331                                           | 32° 05' 19.00041N" | 110° 02' 38.19680W" |
| IR_17_8332                                           | 32° 05' 19.00155N" | 110° 02' 39.35926W" |
| IR_17_8333                                           | 32° 05' 19.00268N" | 110° 02' 40.52171W" |
| IR_17_8334                                           | 32° 05' 19.00380N" | 110° 02' 41.68416W" |
| IR_17_8335                                           | 32° 05' 19.00493N" | 110° 02' 42.84661W" |
| IR_16_8336                                           | 32° 05' 19.00605N" | 110° 02' 44.00907W" |
| IR_16_8337                                           | 32° 05' 19.00717N" | 110° 02' 45.17152W" |
| IR_16_8338                                           | 32° 05' 19.00828N" | 110° 02' 46.33397W" |
| IR_16_8339                                           | 32° 05' 19.00940N" | 110° 02' 47.49643W" |
| IR_16_8340                                           | 32° 05' 19.01051N" | 110° 02' 48.65888W" |
| IR_16_8341                                           | 32° 05' 19.01161N" | 110° 02' 49.82133W" |
| IR_16_8342                                           | 32° 05' 19.01272N" | 110° 02' 50.98379W" |
| IR_16_8343                                           | 32° 05' 19.01382N" | 110° 02' 52.14624W" |
| IR_16_8344                                           | 32° 05' 19.01492N" | 110° 02' 53.30870W" |
| IR_16_8345                                           | 32° 05' 19.01601N" | 110° 02' 54.47115W" |
| IR_16_8346                                           | 32° 05' 20.00564N" | 110° 02' 54.46988W" |
| IR_16_8347                                           | 32° 05' 20.00455N" | 110° 02' 53.30742W" |
| IR_16_8348                                           | 32° 05' 19.79043N" | 110° 02' 52.16946W" |
| IR_16_8349                                           | 32° 05' 19.44826N" | 110° 02' 50.98323W" |
| IR_16_8350                                           | 32° 05' 20.00125N" | 110° 02' 49.82005W" |

| <b>Table 4.1-12</b>                         |                    |                     |
|---------------------------------------------|--------------------|---------------------|
| <b>Stage 3 Injection and Recovery Wells</b> |                    |                     |
| IR_16_8351                                  | 32° 05' 20.00014N" | 110° 02' 48.65760W" |
| IR_16_8352                                  | 32° 05' 19.99903N" | 110° 02' 47.49514W" |
| IR_16_8353                                  | 32° 05' 19.99792N" | 110° 02' 46.33268W" |
| IR_16_8354                                  | 32° 05' 19.99680N" | 110° 02' 45.17022W" |
| IR_16_8355                                  | 32° 05' 19.99568N" | 110° 02' 44.00777W" |
| IR_17_8356                                  | 32° 05' 19.99456N" | 110° 02' 42.84531W" |
| IR_17_8357                                  | 32° 05' 20.98420N" | 110° 02' 42.84400W" |
| IR_17_8358                                  | 32° 05' 20.98532N" | 110° 02' 44.00646W" |
| IR_16_8359                                  | 32° 05' 20.98644N" | 110° 02' 45.16893W" |
| IR_16_8360                                  | 32° 05' 20.98755N" | 110° 02' 46.33138W" |
| IR_16_8361                                  | 32° 05' 20.98866N" | 110° 02' 47.49385W" |
| IR_16_8362                                  | 32° 05' 20.66869N" | 110° 02' 48.65673W" |
| IR_16_8363                                  | 32° 05' 21.42414N" | 110° 02' 47.16046W" |
| IR_16_8364                                  | 32° 05' 21.97718N" | 110° 02' 46.33009W" |
| IR_16_8365                                  | 32° 05' 21.97607N" | 110° 02' 45.16763W" |
| IR_15_8366                                  | 32° 05' 11.10438N" | 110° 03' 00.29344W" |
| IR_15_8367                                  | 32° 05' 13.08148N" | 110° 02' 57.96607W" |
| IR_15_8368                                  | 32° 05' 13.08040N" | 110° 02' 56.80364W" |
| IR_17_8369                                  | 32° 05' 18.00965N" | 110° 02' 37.03567W" |
| IR_17_8370                                  | 32° 05' 19.99344N" | 110° 02' 41.68285W" |
| IR_16_8371                                  | 32° 05' 19.01680N" | 110° 02' 55.31070W" |
| IR_16_8372                                  | 32° 05' 17.03851N" | 110° 02' 56.35459W" |
| IR_14_8375                                  | 32° 04' 52.26061N" | 110° 02' 18.47232W" |
| IR_14_8374                                  | 32° 04' 52.26180N" | 110° 02' 19.63468W" |
| IR_15_8373                                  | 32° 05' 07.11681N" | 110° 02' 30.07576W" |

| Table 2.5-1<br>Proposed Intermediate Monitoring Wells |                       |               |                |
|-------------------------------------------------------|-----------------------|---------------|----------------|
| Proposed Intermediate Monitoring Well ID              | Stage(s) of Operation | Latitude      | Longitude      |
| NSH-005                                               | 1                     | 32° 04' 59.6" | 110° 02' 32.1" |
| NSH-019                                               | 1                     | 32° 04' 53.7" | 110° 02' 36.4" |
| NSH-024                                               | 1                     | 32° 04' 54.8" | 110° 02' 34.2" |
| NSM-001*                                              | 1                     | 32° 05' 1.08" | 110° 02' 37.6" |
| NSM-006                                               | 1                     | 32° 04' 59.6" | 110° 02' 39.1" |
| NSD-001                                               | 1                     | 32° 04' 54.7" | 110° 02' 40.5" |
| NSD-011                                               | 1                     | 32° 04' 58.5" | 110° 02' 34.4" |
| NSD-023*                                              | 1                     | 32° 05' 1.01" | 110° 02' 40.5" |
| NSH-003*                                              | 1 & 2                 | 32° 05' 02.6" | 110° 02' 35.9" |
| NSH-013*                                              | 1 & 2                 | 32° 05' 02.6" | 110° 02' 37.6" |
| NSH-017*                                              | 1 & 2                 | 32° 04' 50.9" | 110° 02' 41.1" |
| NSM-007*                                              | 1 & 2                 | 32° 05' 04.1" | 110° 02' 38.4" |
| CS-05                                                 | 1 & 2                 | 32° 04' 56.2" | 110° 02' 31.1" |
| CS-06*                                                | 1 & 2                 | 32° 05' 01.2" | 110° 02' 31.5" |
| CS-10*                                                | 1 & 2                 | 32° 05' 05.7" | 110° 02' 37.5" |
| CS-11*                                                | 1 & 2                 | 32° 05' 0.93" | 110° 02' 43.4" |
| NSD-024                                               | 1 & 2                 | 32° 04' 59.7" | 110° 02' 28.9" |
| NSH-016*                                              | 1 to 3                | 32° 04' 51.1" | 110° 02' 44.5" |
| NSH-026*                                              | 1 to 3                | 32° 04' 48.3" | 110° 02' 24.9" |
| NSM-005A*                                             | 1 to 3                | 32° 04' 50.4" | 110° 02' 29.2" |
| CS-21*                                                | 1 to 3                | 32° 05' 05.7" | 110° 02' 32.1" |
| IMW-001*                                              | 1 to 3                | 32° 04' 48.9" | 110° 02' 37.1" |
| IMW-002*                                              | 1 to 3                | 32° 05' 1.08" | 110° 02' 25.1" |
| J-05*                                                 | 1 to 3                | 32° 04' 56.3" | 110° 02' 44.7" |
| NSD-009*                                              | 1 to 3                | 32° 04' 49.8" | 110° 02' 21.8" |
| NSD-025*                                              | 1 to 3                | 32° 04' 49.9" | 110° 02' 30.1" |
| NSD-043*                                              | 1 to 3                | 32° 04' 56.7" | 110° 02' 23.6" |
| NSH-007*                                              | 2 & 3                 | 32° 05' 08.1" | 110° 02' 52.7" |
| NSM-013*                                              | 2 & 3                 | 32° 05' 3.09" | 110° 02' 52.3" |
| CS-09*                                                | 2 & 3                 | 32° 05' 10.6" | 110° 02' 31.8" |
| CS-13*                                                | 2 & 3                 | 32° 05' 10.6" | 110° 02' 43.3" |
| J-08                                                  | 2 & 3                 | 32° 05' 07.5" | 110° 02' 35.5" |
| J-09                                                  | 2 & 3                 | 32° 05' 05.6" | 110° 02' 39.8" |
| “*” – Indicates Proposed Outer IMWs                   |                       |               |                |

**Table 2.5-2  
Observation Wells**

| Observation Well ID*                    | Stage(s) of Operation | Latitude      | Longitude       | Activated with Hydraulic Control (HC) Well |
|-----------------------------------------|-----------------------|---------------|-----------------|--------------------------------------------|
| OW-15-I                                 | 1 to 3                | 32° 05' 01.8" | 110° 02' 23.5"  | HC-15                                      |
| OW-15-O                                 | 1 to 3                | 32° 05' 01.9" | 110° 02' 21.3"  |                                            |
| OW-04-I                                 | 1 to 3                | 32° 04' 47.2" | 110° 02' 30.9"  | HC-04                                      |
| OW-04-O                                 | 1 to 3                | 32° 04' 46.3" | 110° 02' 29.9"  |                                            |
| OW-22-I                                 | 1 to 3                | 32° 05' 09.7" | 110° 02' 33.9"  | HC-22                                      |
| OW-22-O                                 | 1 to 3                | 32° 05' 10.7" | 110° 02' 32.2"  |                                            |
| OW-19-I                                 | 1 to 3                | 32° 05' 06.5" | 110° 02' 28.1"  | HC-19                                      |
| OW-19-O                                 | 1 to 3                | 32° 05' 07.9" | 110° 02' 26.5"  |                                            |
| OW-01-I                                 | 1 to 3                | 32° 04' 47.3" | 110° 02' 41.06" | HC-01                                      |
| OW-01-O                                 | 1 to 3                | 32° 04' 46.5" | 110° 02' 41.3"  |                                            |
| OW-10-I                                 | 1 to 3                | 32° 04' 52.7" | 110° 02' 18.8"  | HC-10                                      |
| OW-10-O                                 | 1 to 3                | 32° 04' 52.8" | 110° 02' 16.7"  |                                            |
| OW-13-I                                 | 1 to 3                | 32° 04' 58.6" | 110° 02' 19.9"  | HC-13                                      |
| OW-13-O                                 | 1 to 3                | 32° 04' 58.3" | 110° 02' 17.8"  |                                            |
| OW-07-I                                 | 3                     | 32° 04' 47.7" | 110° 02' 21.2"  | HC-07                                      |
| OW-07-O                                 | 3                     | 32° 04' 46.3" | 110° 02' 20.4"  |                                            |
| OW-25-I                                 | 3                     | 32° 05' 18.6" | 110° 02' 37.4"  | HC-25                                      |
| OW-25-O                                 | 3                     | 32° 05' 19.5" | 110° 02' 35.6"  |                                            |
| OW-28-I                                 | 3                     | 32° 05' 21.6" | 110° 02' 44.07" | HC-28                                      |
| OW-28-O                                 | 3                     | 32° 05' 23.4" | 110° 02' 43.00" |                                            |
| OW-30-I                                 | 3                     | 32° 05' 02.5" | 110° 02' 44.4"  | HC-30                                      |
| OW-30-O                                 | 3                     | 32° 05' 00.8" | 110° 02' 44.7"  |                                            |
| * - "I" = inner OWs and "O" = outer OWs |                       |               |                 |                                            |

**Table 2.5-3**  
**Hydraulic Control Wells**

| <b>Hydraulic Control Well ID</b> | <b>Stage(s) of Operation</b> | <b>Latitude</b> | <b>Longitude</b> | <b>Activated with Mine Block</b> |
|----------------------------------|------------------------------|-----------------|------------------|----------------------------------|
| HC-15                            | 1 to 3                       | 32° 05' 01.6"   | 110° 02' 23.6"   | 1                                |
| HC-17                            | 1 to 3                       | 32° 05' 04.1"   | 110° 02' 25.1"   | 1                                |
| HC-18                            | 1 to 3                       | 32° 05' 04.8"   | 110° 02' 26.9"   | 1                                |
| HC-03                            | 1 to 3                       | 32° 04' 47.4"   | 110° 02' 34.3"   | 2                                |
| HC-04                            | 1 to 3                       | 32° 04' 47.4"   | 110° 02' 30.7"   | 2                                |
| HC-22                            | 1 to 3                       | 32° 05' 09.5"   | 110° 02' 34.1"   | 4                                |
| HC-16                            | 1 to 3                       | 32° 05' 03.3"   | 110° 02' 23.8"   | 5                                |
| HC-20                            | 1 to 3                       | 32° 05' 07.6"   | 110° 02' 30.6"   | 5                                |
| HC-21                            | 1 to 3                       | 32° 05' 09.5"   | 110° 02' 31.8"   | 5                                |
| HC-02                            | 1 to 3                       | 32° 04' 47.4"   | 110° 02' 37.7"   | 6                                |
| HC-19                            | 1 to 3                       | 32° 05' 06.6"   | 110° 02' 28.3"   | 6                                |
| HC-01                            | 1 to 3                       | 32° 04' 47.4"   | 110° 02' 41.2"   | 7                                |
| HC-05                            | 1 to 3                       | 32° 04' 47.5"   | 110° 02' 27.3"   | 7                                |
| HC-06                            | 1 to 3                       | 32° 04' 48.00"  | 110° 02' 23.6"   | 7                                |
| HC-10                            | 1 to 3                       | 32° 04' 52.7"   | 110° 02' 19.05"  | 7                                |
| HC-11                            | 1 to 3                       | 32° 04' 54.7"   | 110° 02' 19.05"  | 7                                |
| HC-12                            | 1 to 3                       | 32° 04' 56.7"   | 110° 02' 19.05"  | 7                                |
| HC-13                            | 1 to 3                       | 32° 04' 58.6"   | 110° 02' 20.2"   | 7                                |
| HC-14                            | 1 to 3                       | 32° 05' 00.6"   | 110° 02' 21.3"   | 7                                |
| HC-07                            | 3                            | 32° 04' 47.9"   | 110° 02' 21.3"   | 16                               |
| HC-23                            | 3                            | 32° 05' 14.5"   | 110° 02' 36.4"   | 14                               |
| HC-24                            | 3                            | 32° 05' 16.5"   | 110° 02' 36.4"   | 14                               |
| HC-25                            | 3                            | 32° 05' 18.5"   | 110° 02' 37.6"   | 14                               |
| HC-26                            | 3                            | 32° 05' 19.4"   | 110° 02' 38.7"   | 14                               |
| HC-27                            | 3                            | 32° 05' 20.1"   | 110° 02' 41.2"   | 14                               |
| HC-28                            | 3                            | 32° 05' 21.6"   | 110° 02' 43.8"   | 14                               |
| HC-29                            | 3                            | 32° 05' 02.7"   | 110° 02' 52.9"   | 15                               |
| HC-08                            | 3                            | 32° 04' 48.8"   | 110° 02' 19.06"  | 16                               |
| HC-09                            | 3                            | 32° 04' 50.7"   | 110° 02' 17.8"   | 16                               |
| HC-30                            | 3                            | 32° 05' 02.7"   | 110° 02' 44.4"   | 17                               |