

**ARIZONA GEOLOGICAL SURVEY**  
Oil, Gas, Helium Production Report

AUG 2012

|  | MONTHLY PRODUCTION |         |           |                   | YEAR TO DATE |           |         | ALL TIME CUMULATIVE |           |           |
|--|--------------------|---------|-----------|-------------------|--------------|-----------|---------|---------------------|-----------|-----------|
|  | DAYS               | OIL BBL | WATER BBL | GAS MCF-DISP      | OIL BBL      | WATER BBL | GAS MCF | OIL BBL             | WATER BBL | GAS MCF   |
| <b>DINEH-BI-KEYAH (HERMOSA)</b>          |                    |         |           |                   |              |           |         |                     |           |           |
| Nacogdoches Oil and Gas                  |                    |         |           |                   |              |           |         |                     |           |           |
| 01 Navajo (377)<br>API# 02-001-20001     | 31                 | 273     | 0         | 0 S<br>0 U<br>0 V | 2,158        | 0         | 0       | 1,155,494           | 34,315    | 137,857   |
| 01 Navajo-138 (388)<br>API# 02-001-20012 | 31                 | 422     | 0         | 0 S<br>0 U<br>0 V | 3,170        | 0         | 0       | 1,157,047           | 61,544    | 653,170   |
| 01 Navajo-88 (421)<br>API# 02-001-20045  | 0                  | 0       | 0         | 0 S<br>0 U<br>0 V | 191          | 153       | 0       | 10,533              | 922       | 7,022     |
| 01 Navajo-C (484)<br>API# 02-001-20092   | 31                 | 31      | 0         | 0 S<br>0 U<br>0 V | 43           | 0         | 0       | 8,345               | 2,092     | 2,501     |
| 01X Navajo-B (445)<br>API# 02-001-20068  | 31                 | 386     | 0         | 0 S<br>0 U<br>0 V | 3,251        | 0         | 0       | 1,914,194           | 51,223    | 224,817   |
| 02 Navajo-88 (431)<br>API# 02-001-20055  | 31                 | 379     | 357       | 0 S<br>0 U<br>0 V | 2,399        | 1,975     | 0       | 874,871             | 339,706   | 143,751   |
| 02 Navajo-B (385)<br>API# 02-001-20010   | 0                  | 0       | 0         | 0 S<br>0 U<br>0 V | 0            | 0         | 0       | 0                   | 0         | 1,953,519 |
| 03 Navajo-138 (723)<br>API# 02-001-20253 | 0                  | 0       | 0         | 0 S<br>0 U<br>0 V | 1,501        | 0         | 0       | 105,390             | 5,152     | 101,371   |
| 03 Navajo-88 (443)<br>API# 02-001-20066  | 0                  | 0       | 0         | 0 S<br>0 U<br>0 V | 0            | 0         | 0       | 177,376             | 58,629    | 182,629   |
| 03X Navajo (386)<br>API# 02-001-20011    | 0                  | 0       | 0         | 0 S<br>0 U<br>0 V | 0            | 0         | 0       | 1,926,465           | 279,975   | 639,551   |
| 04 Navajo (384)<br>API# 02-001-20009     | 0                  | 0       | 0         | 0 S<br>0 U<br>0 V | 0            | 0         | 0       | 3,625,859           | 3,157,643 | 110,983   |
| 06 Navajo (390)<br>API# 02-001-20014     | 31                 | 199     | 0         | 0 S<br>0 U<br>0 V | 1,078        | 0         | 0       | 301,036             | 12,448    | 87,339    |

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|---|--------------------|---------|------------|-------------------|---------|------------|---------------------|-----------|------------|---------|
|   | DAYS               | OIL BBL | WATER BBLs | GAS MCF-DISP      | OIL BBL | WATER BBLs | GAS MCF             | OIL BBL   | WATER BBLs | GAS MCF |
| 06 Navajo-88 (722)<br>API# 02-001-20252 | 0                  | 0       | 0          | 0 S<br>0 U<br>0 V | 0       | 0          | 0                   | 50,177    | 728        | 261,139 |
| 09 Navajo (396)<br>API# 02-001-20020    | 30                 | 602     | 207        | 0 S<br>0 U<br>0 V | 748     | 292        | 0                   | 1,657,768 | 556,475    | 259,211 |
| 11 Navajo (506)<br>API# 02-001-20106    | 31                 | 497     | 0          | 0 S<br>0 U<br>0 V | 3,357   | 0          | 0                   | 1,026,801 | 83,045     | 649,474 |
| 14 Navajo (416)<br>API# 02-001-20040    | 14                 | 79      | 0          | 0 S<br>0 U<br>0 V | 79      | 0          | 0                   | 319,571   | 21,091     | 148,816 |
| 15 Navajo (417)<br>API# 02-001-20041    | 0                  | 0       | 0          | 0 S<br>0 U<br>0 V | 0       | 0          | 0                   | 115,187   | 17,761     | 37,903  |
| 16 Navajo (419)<br>API# 02-001-20043    | 0                  | 0       | 0          | 0 S<br>0 U<br>0 V | 0       | 0          | 0                   | 96,754    | 35,815     | 16,680  |
| 17 Navajo (618)<br>API# 02-001-20190    | 0                  | 0       | 0          | 0 S<br>0 U<br>0 V | 129     | 0          | 0                   | 74,028    | 8,931      | 41,682  |
| 19 Navajo (691)<br>API# 02-001-20240    | 0                  | 0       | 0          | 0 S<br>0 U<br>0 V | 0       | 0          | 0                   | 352,695   | 11,443     | 239,279 |
| 20 Navajo (696)<br>API# 02-001-20245    | 0                  | 0       | 0          | 0 S<br>0 U<br>0 V | 0       | 0          | 0                   | 201,967   | 21,157     | 84,544  |
| 21 Navajo (693)<br>API# 02-001-20242    | 31                 | 272     | 0          | 0 S<br>0 U<br>0 V | 822     | 0          | 0                   | 98,605    | 41,587     | 29,906  |
| 22 Navajo (692)<br>API# 02-001-20241    | 31                 | 298     | 0          | 0 S<br>0 U<br>0 V | 2,739   | 12         | 0                   | 66,341    | 4,675      | 38,065  |
| 24 Navajo (695)<br>API# 02-001-20244    | 19                 | 488     | 3,145      | 0 S<br>0 U<br>0 V | 5,767   | 34,563     | 0                   | 292,650   | 1,068,862  | 55,778  |
| 25 Navajo (719)<br>API# 02-001-20249    | 0                  | 0       | 0          | 0 S<br>0 U<br>0 V | 115     | 0          | 0                   | 86,158    | 3,842      | 65,731  |

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|  | MONTHLY PRODUCTION |         |            | YEAR TO DATE      |         |            | ALL TIME CUMULATIVE |                                       |                                     |                                     |
|--|--------------------|---------|------------|-------------------|---------|------------|---------------------|---------------------------------------|-------------------------------------|-------------------------------------|
|  | DAYS               | OIL BBL | WATER BBLS | GAS MCF-DISP      | OIL BBL | WATER BBLS | GAS MCF             | OIL BBL                               | WATER BBLS                          | GAS MCF                             |
| 26 Navajo (720)<br>API# 02-001-20250   | 31                 | 249     | 356        | 0 S<br>0 U<br>0 V | 664     | 567        | 0                   | 87,749                                | 36,327                              | 10,751                              |
| 27 Navajo (721)<br>API# 02-001-20251   | 31                 | 224     | 0          | 0 S<br>0 U<br>0 V | 901     | 318        | 0                   | 107,841                               | 1,000                               | 54,683                              |
| OPERATOR FIELD TOTAL<br>ABANDONED PRODUCER<br>TOTAL DINEH-BI-KEYAH (HERMOSA)         |                    | 4,399   | 4,065      | 0                 | 29,112  | 37,880     | 0                   | 15,890,902<br>2,791,624<br>18,682,526 | 5,916,388<br>1,103,617<br>7,020,005 | 6,238,152<br>429,787<br>6,667,939   |
| <b>DRY MESA (MISSISSIPPIAN/PARADOX)</b>  |                    |         |            |                   |         |            |                     |                                       |                                     |                                     |
| Navajo Nation Oil&Gas Co.  |                    |         |            |                   |         |            |                     |                                       |                                     |                                     |
| 03 Navajo-138 (115)<br>API# 02-001-05305   | 0                  | 0       | 0          | 0 S<br>0 U<br>0 V | 354     | 3,782      | 29,562              | 471,353                               | 632,246                             | 1,021,560                           |
| 10 Navajo-138 (907)<br>API# 02-001-20318   | 4                  | 12      | 0          | 2 S<br>0 U<br>0 V | 74      | 27         | 19                  | 3,583                                 | 12,323                              | 78,133                              |
| OPERATOR FIELD TOTAL<br>ABANDONED PRODUCER<br>TOTAL DRY MESA (MISSISSIPPIAN/PARADOX) |                    | 12      | 0          | 2                 | 428     | 3,809      | 29,581              | 474,936<br>377,167<br>852,103         | 644,569<br>2,238,572<br>2,883,141   | 1,099,693<br>1,400,847<br>2,500,540 |
| <b>EAST BOUNDARY BUTTE (PARADOX)</b>   |                    |         |            |                   |         |            |                     |                                       |                                     |                                     |
| Elm Ridge Resources, Inc.  |                    |         |            |                   |         |            |                     |                                       |                                     |                                     |
| 01 Navajo (28)<br>API# 02-001-05199  | 0                  | 0       | 0          | 0 S<br>0 U<br>0 V | 0       | 0          | 0                   | 147,883                               | 696,249                             | 2,054,982                           |
| 02 Navajo (22)<br>API# 02-001-05200  | 0                  | 0       | 0          | 0 S<br>0 U<br>0 V | 0       | 0          | 0                   | 22,179                                | 14,621                              | 1,845,659                           |
| 03-11 Navajo (490)<br>API# 02-001-20095  | 0                  | 0       | 0          | 0 S<br>0 U<br>0 V | 0       | 0          | 0                   | 11,323                                | 276,138                             | 83,480                              |
| OPERATOR FIELD TOTAL<br>ABANDONED PRODUCER<br>TOTAL EAST BOUNDARY BUTTE (PARADOX)    |                    | 0       | 0          | 0                 | 0       | 0          | 0                   | 181,385<br>709,320<br>890,705         | 987,008<br>4,177,141<br>5,164,149   | 3,984,121<br>5,858,349<br>9,842,470 |

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|--|--------------------|--------------|--------------|-------------------------|---------------|---------------|---------------------|-------------------|-------------------|-------------------|
|  | DAYS               | OIL BBL      | WATER BBLs   | GAS MCF-DISP            | OIL BBL       | WATER BBLs    | GAS MCF             | OIL BBL           | WATER BBLs        | GAS MCF           |
| <b>BLACK ROCK (ISMAY/AKAH)</b>           |                    |              |              |                         |               |               |                     |                   |                   |                   |
| Navajo Nation Oil&Gas Co.                |                    |              |              |                         |               |               |                     |                   |                   |                   |
| 03 Black Rock (581)<br>API# 02-001-20162 | 31                 | 0            | 7            | 3,660 S<br>261 U<br>0 V | 7             | 70            | 31,882              | 4,325             | 5,742             | 2,085,480         |
| 12 Black Rock (875)<br>API# 02-001-20294 | 31                 | 71           | 321          | 1,742 S<br>271 U<br>0 V | 349           | 2,986         | 15,564              | 12,115            | 48,870            | 1,217,971         |
| 20 Black Rock (882)<br>API# 02-001-20297 | 31                 | 161          | 591          | 3,516 S<br>441 U<br>0 V | 636           | 5,354         | 28,729              | 25,807            | 154,849           | 1,195,834         |
| OPERATOR FIELD TOTAL                     |                    | 232          | 919          | 9,891                   | 992           | 8,410         | 76,175              | 42,247            | 209,461           | 4,499,285         |
| ABANDONED PRODUCER                       |                    |              |              |                         |               |               |                     | 26,183            | 290,528           | 4,875,107         |
| TOTAL BLACK ROCK (ISMAY/AKAH)            |                    |              |              |                         |               |               |                     | 68,430            | 499,989           | 9,374,392         |
| ABANDONED FIELDS AND UNDESIGNATED        |                    |              |              |                         |               |               |                     | 606,438           | 570,155           | 4,947,180         |
| <b>GRAND TOTALS</b>                      |                    | <b>4,643</b> | <b>4,984</b> | <b>9,893</b>            | <b>30,532</b> | <b>50,099</b> | <b>105,756</b>      | <b>21,100,202</b> | <b>16,137,439</b> | <b>33,332,521</b> |

Helium: Between 1961 and 1976 cumulative production of Helium was 9,237,801 MCF.

Gas Disposition Symbols in this Report:

- V - Flared/Vented      S - Sold
- U - Used on Lease      L - Lost (Mcf estimated)

All production done in Apache County.

State Permit Numbers are shown in parentheses

\* - Amended Report

Run Date 1/7/2013  
11:02:21 AM

**ARIZONA GEOLOGICAL SURVEY**  
Supplemental CO<sub>2</sub> Production Report

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|  | <b>MONTHLY PRODUCTION</b>          | <b>YEAR TO DATE</b>           | <b>ALL TIME CUMULATIVE</b>    |
|--|------------------------------------|-------------------------------|-------------------------------|
| <b>DAYS</b>  | <b>CO<sub>2</sub><br/>MCF-DISP</b> | <b>CO<sub>2</sub><br/>MCF</b> | <b>CO<sub>2</sub><br/>MCF</b> |
| <b>ST JOHNS (SUPAI)</b><br>Ridgeway Arizona Oil Corp<br>10-22 State (896)<br>API# 02-001-20308 | 0 S                                | 0                             | 377,894                       |
| ABANDONED FIELDS AND UNDESIGNATED  |                                    |                               | 0                             |
| <b>GRAND TOTALS</b>  | <b>0</b>                           | <b>0</b>                      | <b>377,894</b>                |

Gas Disposition Symbols in this Report:

S - Sold

State Permit Numbers are shown in parentheses

\* - Amended Report