

County: Seward Fraction: NW NE NE NE Sec. 26 T. 33 S R. 32 W

**CORRECTION(S) to WATER WELL COMPLETION RECORD Form WWC-5 (to rectify lacking or incorrect information)**

Owner: Merit Energy Company (was Anadarko Petroleum)

ID No.: MW MP3

If location corrected, was listed as:

Location changed to:

Section-Township-Range: 23-33S-32 W

26-33S-32 W

Fraction (1/4 calls): NW SE SE

NW NE NE NE

Other changes: Initial statements: No latitude and longitude given.

Changed to: Latitude: 37.15514 Longitude: -100.76167 (Datum WGS 84 assumed)

Comments: \_\_\_\_\_

Verification method: Latitude and longitude given on "Attachment 1," KGS' online LEOWEB conversion tool, and KGS' online WWC-5 mapping tool and aerial photos.

Initials: DRD Date: 6/11/2019

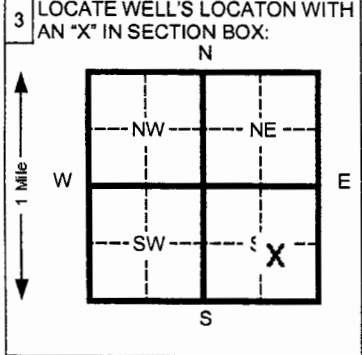
Submitted by:  Kansas Geological Survey, Data Resources Library, 1930 Constant Ave., Lawrence, KS 66047-3724  
 Kansas Dept. of Health & Environment, Bureau of Water, 1000 SW Jackson, Suite 420, Topeka, KS 66612-1367

Revised

|                           |                             |                |                 |               |
|---------------------------|-----------------------------|----------------|-----------------|---------------|
| 1 LOCATION OF WATER WELL: | Fraction                    | Section Number | Township Number | Range Number  |
| County: <b>Seward</b>     | <b>NW 1/4 SE 1/4 SE 1/4</b> | <b>23</b>      | T <b>33</b> S   | R <b>32</b> W |

Distance and direction from nearest town or city street address of well if located within city?  
**13 miles NE of Liberal on US Hwy 54, 0.25-mile north of the Cimarron River**

2 WATER WELL OWNER: **Anadarko Petroleum Corporation**  
 RR#, St. Address, Box #: **PO Box 1330**  
 City, State, ZIP Code: **Houston, TX 77251-1330**  
 Board of Agriculture, Division of Water Resources  
 Application Number:



4 DEPTH OF COMPLETED WELL: **28** ft. ELEVATION: \_\_\_\_\_  
 Depth(s) Groundwater Encountered 1 **23** ft. 2 \_\_\_\_\_ ft. 3 \_\_\_\_\_ ft.  
 WELL'S STATIC WATER LEVEL \_\_\_\_\_ ft. below land surface measured on mo/day/yr  
 Pump test data: Well water was \_\_\_\_\_ ft. after \_\_\_\_\_ hours pumping \_\_\_\_\_ gpm  
 Est. Yield \_\_\_\_\_ gpm: Well water was \_\_\_\_\_ ft. after \_\_\_\_\_ hours pumping \_\_\_\_\_ gpm  
 Bore Hole Diameter **4** in. to **28** ft. and \_\_\_\_\_ in. to \_\_\_\_\_ ft.  
 WELL WATER TO BE USED AS: 5 Public water supply 8 Air conditioning 11 Injection well  
 1 Domestic 3 Feed lot 6 Oil field water supply 9 Dewatering **12 Other (Specify below)**  
 2 Irrigation 4 Industrial 7 Lawn and garden (domestic) 10 Monitoring well **SVE**  
 Was a chemical/bacteriological sample submitted to Department? Yes \_\_\_\_\_ No **X** If yes, mo/day/yr sample was submitted  
 Water Well Disinfected? Yes \_\_\_\_\_ No **X**

5 TYPE OF BLANK CASING USED:

|              |            |                   |                         |
|--------------|------------|-------------------|-------------------------|
| 1 Steel      | 3 RMP (SR) | 6 Asbestos-Cement | 9 Other (specify below) |
| <b>2 PVC</b> | 4 ABS      | 7 Fiberglass      |                         |

CASING JOINTS: Glued \_\_\_\_\_ Clamped \_\_\_\_\_  
 Welded \_\_\_\_\_  
 Threaded \_\_\_\_\_ Flush \_\_\_\_\_

Blank casing diameter **1** in. to **13** ft., Dia \_\_\_\_\_ in. to \_\_\_\_\_ ft., Dia \_\_\_\_\_ in. to \_\_\_\_\_ ft.  
 Casing height above land surface **24** in., weight **0.703** lbs./ft. Wall thickness or gauge No. **Sch. 40**

TYPE OF SCREEN OR PERFORATION MATERIAL:

|         |                    |                 |            |                          |
|---------|--------------------|-----------------|------------|--------------------------|
| 1 Steel | 3 Stainless steel  | 5 Fiberglass    | 8 RMP (SR) | 11 Other (specify)       |
| 2 Brass | 4 Galvanized steel | 6 Concrete tile | 9 ABS      | 12 None used (open hole) |

SCREEN OR PERFORATION OPENINGS ARE:

|                    |                    |                |                    |
|--------------------|--------------------|----------------|--------------------|
| 1 Continuous slot  | <b>3 Mill slot</b> | 6 Wire wrapped | 9 Drilled holes    |
| 2 Louvered shutter | 4 Key punched      | 7 Torch cut    | 10 Other (specify) |

SCREEN-PERFORATED INTERVALS: From **13** ft. to **28** ft. From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 From \_\_\_\_\_ ft. to \_\_\_\_\_ ft. From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 GRAVEL PACK INTERVALS: From **11** ft. to **28** ft. From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 From \_\_\_\_\_ ft. to \_\_\_\_\_ ft. From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

6 GROUT MATERIAL: 1 Neat cement 2 Cement grout **3 Bentonite** 4 Other \_\_\_\_\_

Grout Intervals From **0.5** ft. to **11** ft. From \_\_\_\_\_ ft. to \_\_\_\_\_ ft. From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

What is the nearest source of possible contamination:

|                          |                 |                 |                        |                          |
|--------------------------|-----------------|-----------------|------------------------|--------------------------|
| 1 Septic tank            | 4 Lateral lines | 7 Pit privy     | 10 Livestock pens      | 14 Abandoned water well  |
| 2 Sewer lines            | 5 Cess pool     | 8 Sewage lagoon | 11 Fuel storage        | 15 Oil well/ Gas well    |
| 3 Watertight sewer lines | 6 Seepage pit   | 9 Feedyard      | 12 Fertilizer storage  | 16 Other (specify below) |
|                          |                 |                 | 13 Insecticide storage |                          |

Direction from well? \_\_\_\_\_ How many feet? \_\_\_\_\_

| FROM | TO   | CODE | LITHOLOGIC LOG        | FROM | TO | PLUGGING INTERVALS |
|------|------|------|-----------------------|------|----|--------------------|
| 0    | 2.5  |      | Sand                  |      |    |                    |
| 2.5  | 6    |      | Sand, slightly clayey |      |    |                    |
| 6    | 16.5 |      | Sand, fine            |      |    |                    |
| 16.5 | 24   |      | Sandy clay            |      |    |                    |
| 24   | 28   |      | Silty sand            |      |    |                    |

7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was **(1) constructed**, (2) reconstructed, or (3) plugged under my jurisdiction and was completed on (mo/day/yr) **4-26-04** and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. **531** This Water Well Record was completed on (mo/day/yr) **5-11-04** under the business name of **Geotechnical Services, Inc.** by (signature) \_\_\_\_\_

INSTRUCTIONS: Please fill in blanks and circle the correct answers. Send three copies to Kansas Department of Health and Environment, Bureau of Water, 1000 S W Jackson St., Ste. 420, Topeka, Kansas 66612-1367. Telephone: 913-296-5545. Send one to WATER WELL OWNER and retain one for your records.

OFFICE USE ONLY  
T  
R  
SEC

RECEIVED

SEP 13 2004

BUREAU OF WATER



October 25, 2016

Andrea Schiller  
Remediation Section/Voluntary Cleanup Unit  
Bureau of Environmental Remediation  
Kansas Dept. of Health and Environment  
1000 SW Jackson St., Suite 410  
Topeka, KS 66612-1367

Re: East Meter Station VCPRP Agreement No. 00-VCP-0026

On August 23, 2016, Anadarko E&P Onshore LLC and its affiliates (collectively, "Anadarko") entered into a purchase and sale agreement with Merit Hugoton II, LLC, an affiliate of Merit Energy Company ("Merit"). Pursuant to that agreement, Merit has agreed to acquire all of Anadarko's interest in certain upstream and midstream assets in southwest Kansas, northwest Oklahoma and southeast Colorado. Consequently, Anadarko is requesting Kansas Department of Health and Environment to terminate our Voluntary Cleanup and Property Redevelopment Program (VCPRP) agreement for this site; VCPRP Agreement Number 00-VCP-0026.

In connection with the acquisition, Merit has agreed to assume responsibility for Anadarko's obligations with respect to the East Meter Station Site located in Seward County, Kansas, regardless of whether such obligations arose prior to or after the acquisition of the assets by Merit. This acquisition includes the assumption of responsibility by Merit for the existing remediation system and associated infrastructure, such as piping, remediation wells, and monitoring wells. A complete list of the East Meter Station Site monitoring and remediation wells is included as Attachment 1 for reference.

Please be advised that Anadarko further requests the refund of any regulatory oversight deposit that remains once this transfer is complete. The sale to Merit, and the assumption of such obligations by Merit, is expected to occur on October 31, 2016. Merit's contact information is as follows:

Merit Hugoton II, LLC  
13727 Noel Road, Suite 1200  
Tower 2  
Dallas, Texas 75240  
Facsimile: (972) 960-1252  
Attn: Mark Savoy

RECEIVED  
OCT 26 2016  
BUREAU OF WATER

If you have any questions or comments you can contact me at (832) 636-2879.

Sincerely,

A handwritten signature in black ink, appearing to read "Greg Feegle". The signature is fluid and cursive, with the first name "Greg" written in a larger, more prominent script than the last name "Feegle".

Greg Feegle, P.E.

Anadarko Petroleum Corp

cc: Mark Savoy, Merit Energy  
Pam Chaffee, Kansas Department of Health and Environment

Attachment 1: East Meter Station Well List

**Attachment 1.**

**East Meter Station Well List**

**Inventory of Wells Originally Installed by Anadarko Petroleum in support of VCPRP Agreement No. 00-VCP-0026**

| Well ID            | Well Type                   | Installation Date | GPS Location             |                          | County | Ownership Status, Effective Oct. 31, 2016        |
|--------------------|-----------------------------|-------------------|--------------------------|--------------------------|--------|--|
|                    |                             |                   | Latitude (degrees north) | Longitude (degrees west) |        |  |
| GMW-1              | Monitoring                  | 1/26/2006         | 37.15556                 | -100.76173               | Seward | Merit Energy                                     |
| GMW-2              | Monitoring                  | 1/26/2006         | 37.15557                 | -100.76141               | Seward | Merit Energy                                     |
| GMW-3              | Monitoring                  | 1/26/2006         | 37.15530                 | -100.76176               | Seward | Merit Energy                                     |
| GMW-4              | Monitoring                  | 4/26/2004         | 37.15522                 | -100.76158               | Seward | Merit Energy                                     |
| GMW-5 <sup>1</sup> | Monitoring                  | 1/27/2006         | 37.15491                 | -100.76139               | Seward | Anadarko, Reassignment to FCGP site <sup>1</sup> |
| GMW-6 <sup>1</sup> | Monitoring                  | 1/26/2006         | 37.15502                 | -100.76083               | Seward | Anadarko, Reassignment to FCGP site <sup>1</sup> |
| GMW-7 <sup>1</sup> | Monitoring                  | 5/19/2008         | 37.15503                 | -100.76181               | Seward | Anadarko, Reassignment to FCGP site <sup>1</sup> |
| GMW-8 <sup>1</sup> | Monitoring                  | 5/19/2008         | 37.15482                 | -100.76116               | Seward | Anadarko, Reassignment to FCGP site <sup>1</sup> |
| GMW-9 <sup>1</sup> | Monitoring                  | 6/16/2009         | 37.15441                 | -100.76102               | Seward | Anadarko, Reassignment to FCGP site <sup>1</sup> |
| GMW-10             | Monitoring                  | 6/16/2009         | 37.15571                 | -100.76177               | Seward | Merit Energy                                     |
| MW-9               | Monitoring                  | 8/22/2001         | 37.15544                 | -100.76148               | Seward | Merit Energy                                     |
| MP-1               | Monitoring, Pilot Test Well | 4/26/2004         | 37.15514                 | -100.76161               | Seward | Merit Energy                                     |
| MP-2               | Monitoring, Pilot Test Well | 4/26/2004         | 37.15514                 | -100.76154               | Seward | Merit Energy                                     |
| MP-3               | Monitoring, Pilot Test Well | 4/26/2004         | 37.15514                 | -100.76167               | Seward | Merit Energy                                     |
| MP-4               | Monitoring, Pilot Test Well | 4/26/2004         | 37.15518                 | -100.76176               | Seward | Merit Energy                                     |
| SVE-1              | Soil Vapor Extraction       | 1/24/2006         | 37.15554                 | -100.76153               | Seward | Merit Energy                                     |
| SVE-2              | Soil Vapor Extraction       | 1/24/2006         | 37.15543                 | -100.76145               | Seward | Merit Energy                                     |
| SVE-3              | Soil Vapor Extraction       | 1/24/2006         | 37.15543                 | -100.76162               | Seward | Merit Energy                                     |
| SVE-4              | Soil Vapor Extraction       | 1/24/2006         | 37.15535                 | -100.76152               | Seward | Merit Energy                                     |
| SVE-5              | Soil Vapor Extraction       | 1/23/2006         | 37.15519                 | -100.76164               | Seward | Merit Energy                                     |
| SVE-6              | Soil Vapor Extraction       | 1/25/2006         | 37.15520                 | -100.76144               | Seward | Merit Energy                                     |
| SVE-7              | Soil Vapor Extraction       | 1/25/2006         | 37.15526                 | -100.76127               | Seward | Merit Energy                                     |
| SVE-8              | Soil Vapor Extraction       | 1/24/2006         | 37.15536                 | -100.76127               | Seward | Merit Energy                                     |
| Air Sparge Well    | Air Sparge, Pilot Test Well | 4/26/2004         | 37.15518                 | -100.76159               | Seward | Merit Energy                                     |

**Notes:**

<sup>1</sup>GMW-5 through GMW-9 will be transferred to Anadarko Petroleum Corporation's Former Cimarron Gas Plant (FCGP); Voluntary Cleanup and Property Redevelopment Program Agreement No. 11-VCP-0010.

RECEIVED

OCT 26 2016

BUREAU OF WATER