

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 MP1

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: -100.76161 (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: DR Date: 6/11/2019

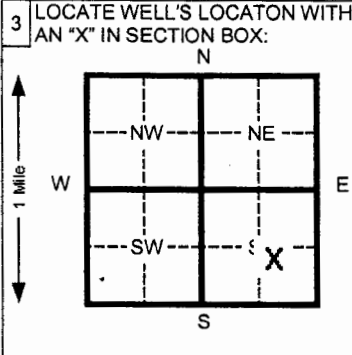
Submitted by:  Kansas Geological Survey, Data Resources Library, 1930 Constant Ave., Lawrence, KS 66047-3724  
 Kansas Dept. of Health & Environment, Bureau of Water, 1000 SW Jackson, Suite 420, Topeka, KS 66612-1367

Revised

1 LOCATION OF WATER WELL:	Fraction	Section Number	Township Number	Range Number
County: <b>Seward</b>	<b>NW</b> ¼ <b>SE</b> ¼ <b>SE</b> ¼	<b>23</b>	T <b>33</b> S	R <b>32</b> <b>W</b>

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** Board of Agriculture, Division of Water Resources  
 City, State, ZIP Code: **Houston, TX 77251-1330** 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: 5 Wrought Iron 8 Concrete tile CASING JOINTS: Glued \_\_\_\_\_ Clamped \_\_\_\_\_  
 1 Steel 3 RMP (SR) 6 Asbestos-Cement 9 Other (specify below) Welded \_\_\_\_\_  
**2 PVC** 4 ABS 7 Fiberglass **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: **7 PVC** 10 Asbestos-cement  
 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: 5 Gauzed wrapped 8 Saw cut 11 None (open hole)  
 1 Continuous slot **3 Mill slot** 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 **10.5** 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 **10.5** 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.

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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

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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" and last name "Feegle" clearly distinguishable.

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.

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