

County: Seward Fraction: SW SE SE SE Sec. 23 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.: GMW-1

If location corrected, was listed as:

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

Fraction (1/4 calls): NW SE SE

Location changed to:

23-33S-32 W

SW SE SE SE

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

Changed to: Latitude: 37.15556 Longitude: -100.76173 (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.

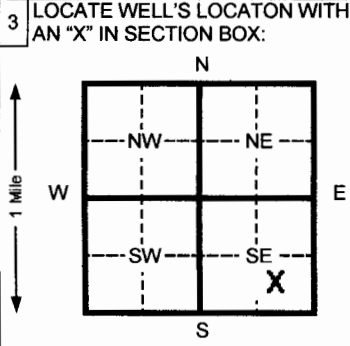
Initials: DRA Date: 6/11/2019

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

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

Distance and direction from nearest town or city street address of well if located within city?  
**13 miles NE of Liberal, on Panhandle Rd ¼ mile west of US Hwy 54, 0.25miles north of 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 **30** ft. ELEVATION:  
 Depth(s) Groundwater Encountered 1 \_\_\_\_\_ ft. 2 \_\_\_\_\_ ft. 3 \_\_\_\_\_ ft.  
 WELL'S STATIC WATER LEVEL **24** 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 **8** in. to **30** 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  
 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) 5 Wrought Iron 8 Concrete tile CASING JOINTS: Glued \_\_\_\_\_ Clamped \_\_\_\_\_  
 2 PVC 4 ABS 6 Asbestos-Cement 9 Other (specify below) Welded \_\_\_\_\_  
 7 Fiberglass Threaded **X**  
 Blank casing diameter **2** in. to **15** ft. Dia \_\_\_\_\_ in. to \_\_\_\_\_ ft. Dia \_\_\_\_\_ in. to \_\_\_\_\_ ft.  
 Casing height above land surface **0** in., weight **.716** lbs./ft. Wall thickness or gauge No. **.154**  
 TYPE OF SCREEN OR PERFORATION MATERIAL:  
 1 Steel 3 Stainless steel 5 Fiberglass 7 PVC 10 Asbestos-cement  
 2 Brass 4 Galvanized steel 6 Concrete tile 8 RMP (SR) 11 Other (specify)  
 9 ABS 12 None used (open hole)  
 SCREEN OR PERFORATION OPENINGS ARE:  
 1 Continuous slot 3 Mill slot 5 Gauzed wrapped 8 Saw cut 11 None (open hole)  
 2 Louvered shutter 4 Key punched 6 Wire wrapped 9 Drilled holes  
 7 Torch cut 10 Other (specify)  
 SCREEN-PERFORATED INTERVALS: From **15** ft. to **30** ft. From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 From \_\_\_\_\_ ft. to \_\_\_\_\_ ft. From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 GRAVEL PACK INTERVALS: From **13** ft. to **30** 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** ft. to **13** 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 **Contaminated Site**

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

FROM	TO	CODE	LITHOLOGIC LOG	FROM	TO	PLUGGING INTERVALS
0	1.5		TopSoil, Gravel			
1.5	6		Sand			
6	12		Sand w/ Trace of Silt			
12	15		Silty Clay w/ Trace of Sand			
15	17		Sand w/ Trace of Silt			
17	18		Clayey Silt			
18	26		Clay			
26	28		Clayey Silt			
28	30		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) **1-26-06** and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. **554** This Water Well Record was completed on (mo/day/yr) **3-23-06** under the business name of **Woofer Pump & Well Inc.** by (signature) *Paul C. Woofer*



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" 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.

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