

County: Seward Fraction: NE 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: Anadarko Petroleum Corp. (reassigned to FCGP site) ID No.: GMW-9

If location corrected, was listed as:

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

Fraction (1/4 calls): NE NE SW

Location changed to:

26-33S-32W

NE NE NE NE

Other changes: Initial statements: Latitude: 37.1612 N; Longitude: 100.7671 W (no datum given).

Liberal Kansas 2 miles

Changed to: Latitude: 37.15441 Longitude: -100.76102 (Datum WGS 84 assumed).

From Liberal, KS; 12 mi. NE on U.S. Hwy. 54, 0.75 mi. W.

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: ORA 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

WATER WELL RECORD

Form WWC-5

Division of Water Resources; App. No.

1 LOCATION OF WATER WELL: County: <u>Seward</u>	Fraction <u>NE 1/4 NE 1/4 SW 1/4</u>	Section Number <u>23</u>	Township Number <u>T 33 S</u>	Range Number <u>R 32 E</u>
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Distance and direction from nearest town or city street address of well if located within city? Liberal Kansas 2 miles

Global Positioning Systems (decimal degrees, min. of 4 digits)
 Latitude: 37.1612°N
 Longitude: 100.7671°W
 Elevation: _____
 Datum: _____
 Data Collection Method: _____

2 WATER WELL OWNER: Anadarko Petroleum Corp.
 RR#, St. Address, Box # : 1201 Lake Robbins Dr
 City, State, ZIP Code : The Woodlands, Tx 77380

3 LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX:

N			
--NW--	--NE--		
W	X	E	
--SW--	--SE--		
S			

4 DEPTH OF COMPLETED WELL 30 ft.

Depth(s) Groundwater Encountered (1).....20..... 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
 WELL WATER TO BE USED AS: 5 Public water supply 8 Air conditioning 11 Injection well
 1 Domestic 3 Feedlot 6 Oil field water supply 9 Dewatering 12 Other (Specify below)
 2 Irrigation 4 Industrial 7 Domestic (lawn & garden) 10 Monitoring well GMW#9

Was a chemical/bacteriological sample submitted to Department? Yes No; If yes, mo/day/yr Sample was submitted..... Water well disinfected? Yes No

5 TYPE OF CASING USED:

1 Steel	3 RMP (SR)	6 Asbestos-Cement	9 Other (specify below)	CASING JOINTS: Glued..... Clamped.....
<u>2 PVC</u>	4 ABS	7 Fiberglass		Welded.....

Blank casing diameter2..... in. to0..... ft., Diameter: 1.0..... in. to ft., Diameter in. to ft.
 Casing height above land surface.....0..... in., Weightlbs./ft. Wall thickness or gauge No.0.020.....

TYPE OF SCREEN OR PERFORATION MATERIAL:

1 Steel	3 Stainless Steel	5 Fiberglass	<u>7 PVC</u>	9 ABS	11 Other (Specify)
2 Brass	4 Galvanized Steel	6 Concrete tile	8 RM (SR)	10 Asbestos-Cement	12 None used (open hole)

SCREEN OR PERFORATION OPENINGS ARE:

1 Continuous slot	3 Mill slot	5 Gauzed wrapped	7 Torch cut	9 Drilled holes	11 None (open hole)
2 Louvered shutter	4 Key punched	6 Wire wrapped	<u>Saw cut</u>	10 Other (specify)	

SCREEN-PERFORATED INTERVALS: From.....10..... ft. to30..... ft., From ft. to ft.
 From..... ft. to ft., From ft. to ft.

GRAVEL PACK INTERVALS: From.....8..... ft. to30..... ft., From ft. to ft.
 From.....2..... ft. to8..... ft., From ft. to ft.

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

Grout Intervals: From0..... ft. to2..... 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	13 Insecticide storage	16 Other (specify below)
2 Sewer lines	5 Cess pool	8 Sewage lagoon	11 Fuel storage	14 Abandoned water well	
3 Watertight sewer lines	6 Seepage pit	9 Feedyard	12 Fertilizer storage	15 Oil well/gas well	

Direction from well? How many feet?

FROM	TO	LITHOLOGIC LOG	FROM	TO	PLUGGING INTERVALS
<u>0</u>	<u>5</u>	<u>Tan Sand</u>			
<u>5</u>	<u>10</u>	<u>Brown Silty Sand</u>			
<u>10</u>	<u>15</u>	<u>Grey Silty Sand</u>			
<u>15</u>	<u>20</u>	<u>Black Clay Silt</u>			
<u>20</u>	<u>25</u>	<u>Black Sand</u>			
<u>25</u>	<u>30</u>	<u>Black Sand</u>			

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/year) 6/16/09 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 761 This Water Well Record was completed on (mo/day/year) 6/29/09 under the business name of Accurate Drilling Services by (signature)

INSTRUCTIONS: Use typewriter or ball point pen. PLEASE PRESS FIRMLY and PRINT clearly. Please fill in blanks, underline or circle the correct answers. Send top three copies to Kansas Department of Health and Environment, Bureau of Water, Geology Section, 1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367. Telephone 785-296-5522. Send one to WATER WELL OWNER and retain one for your records. Fee of \$5.00 for each constructed well. Visit us at <http://www.kdheks.gov/waterwell/index.html>.



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 ¹	Monitoring	1/27/2006	37.15491	-100.76139	Seward	Anadarko, Reassignment to FCGP site ¹
GMW-6 ¹	Monitoring	1/26/2006	37.15502	-100.76083	Seward	Anadarko, Reassignment to FCGP site ¹
GMW-7 ¹	Monitoring	5/19/2008	37.15503	-100.76181	Seward	Anadarko, Reassignment to FCGP site ¹
GMW-8 ¹	Monitoring	5/19/2008	37.15482	-100.76116	Seward	Anadarko, Reassignment to FCGP site ¹
GMW-9 ¹	Monitoring	6/16/2009	37.15441	-100.76102	Seward	Anadarko, Reassignment to FCGP site ¹
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:

¹GMW-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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