

County: Seward Fraction: SE SE 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.: SVE-8

If location corrected, was listed as:

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

Fraction (1/4 calls): NW SE SE

Location changed to:

23-33S-32W

SE SE SE SE

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

Changed to: Latitude: 37.15536 Longitude: -100.76127 (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: DBL 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: County: Seward	Fraction NW ¼ SE ¼ SE ¼	Section Number 23	Township Number T 33 S	Range Number R 32 EW
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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**
 City, State, ZIP Code : **Houston, TX 77251-1330**
 Board of Agriculture, Division of Water Resources
 Application Number:

3 LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX:	4 DEPTH OF COMPLETED WELL 25 ft. ELEVATION:
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Depth(s) Groundwater Encountered 1 **22** 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 **8** in. to **25** ft. and _____ in. to _____ ft.

WELL WATER TO BE USED AS: 5 Public water supply 8 Air conditioning Injection well
 1 Domestic 3 Feed lot 6 Oil field water supply 9 Dewatering Other (Specify below)
SVE

2 Irrigation 4 Industrial 7 Lawn and garden (domestic) 10 Monitoring well

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 BLANK CASING USED:

<input checked="" type="radio"/> Steel	<input type="radio"/> RMP (SR)	<input type="radio"/> Wrought Iron	<input type="radio"/> Concrete tile	CASING JOINTS: Glued _____ Clamped _____
<input checked="" type="radio"/> PVC	<input type="radio"/> ABS	<input type="radio"/> Asbestos-Cement	<input type="radio"/> Other (specify below)	Welded _____
		<input type="radio"/> Fiberglass		Threaded <input checked="" type="checkbox"/>

Blank casing diameter **4** in. to **14** ft., Dia _____ in. to _____ ft., Dia _____ in. to _____ ft.

Casing height above land surface **0** in., weight **2.071** lbs./ft. Wall thickness or gauge No. **.237**

TYPE OF SCREEN OR PERFORATION MATERIAL:

<input type="radio"/> Steel	<input type="radio"/> Stainless steel	<input type="radio"/> Fiberglass	<input type="radio"/> RMP (SR)	<input type="radio"/> Asbestos-cement
<input type="radio"/> Brass	<input type="radio"/> Galvanized steel	<input type="radio"/> Concrete tile	<input type="radio"/> ABS	<input type="radio"/> Other (specify)

SCREEN OR PERFORATION OPENINGS ARE:

<input type="radio"/> Continuous slot	<input type="radio"/> Mill slot	<input type="radio"/> Gauzed wrapped	<input checked="" type="radio"/> Saw cut	<input type="radio"/> None (open hole)
<input type="radio"/> Louvered shutter	<input type="radio"/> Key punched	<input type="radio"/> Wire wrapped	<input type="radio"/> Drilled holes	
		<input type="radio"/> Torch cut	<input type="radio"/> Other (specify)	

SCREEN-PERFORATED INTERVALS: From **14** ft. to **25** ft. From _____ ft. to _____ ft.

GRAVEL PACK INTERVALS: From **12** ft. to **25** ft. From _____ ft. to _____ ft.

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

Grout Intervals From **0** ft. to **12** ft. From _____ ft. to _____ ft. From _____ ft. to _____ ft.

What is the nearest source of possible contamination:

<input type="radio"/> Septic tank	<input type="radio"/> Lateral lines	<input type="radio"/> Pit privy	<input type="radio"/> Livestock pens	<input type="radio"/> Abandoned water well
<input type="radio"/> Sewer lines	<input type="radio"/> Cess pool	<input type="radio"/> Sewage lagoon	<input type="radio"/> Fuel storage	<input type="radio"/> Oil well/ Gas well
<input type="radio"/> Watertight sewer lines	<input type="radio"/> Seepage pit	<input type="radio"/> Feedyard	<input type="radio"/> Fertilizer storage	<input type="radio"/> Other (specify below)

Contaminated Site

Direction from well? _____ How many feet? _____

FROM	TO	CODE	LITHOLOGIC LOG	FROM	TO	PLUGGING INTERVALS
0	1.5		TopSoil, Gravel			
1.5	7		Sand			
7	12		Sand w/ Trace of Silt			
12	14		Sand w/ Clay			
14	16		Sandy Clay			
16	18		Sand w/ Trace of Clay			
18	25		Sand			

7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was constructed, reconstructed, or plugged under my jurisdiction and was completed on (mo/day/yr) **1-25-06** 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 **Woofter Pump & Well 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.



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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