

WATER WELL RECORD Form WWC-5 MW-E

Division of Water Resources App. No. Well ID

Original Record Correction Change in Well Use

1 LOCATION OF WATER WELL: County: Rice Fraction SE ¼ SE ¼ SE ¼ NW ¼ Section Number 21 Township Number T 21 S Range Number R 8 E W

2 WELL OWNER: Last Name: Phillips 66 Business: Phillips 66 Address: 1604-02 Phillips Bldg. City: Bartlesville State: OK ZIP: 74003 Street or Rural Address where well is located (if unknown, distance and direction from nearest town or intersection): If at owner's address, check here: 101 N. Broadway; Sterling, KS

3 LOCATE WELL WITH "X" IN SECTION BOX:

4 DEPTH OF COMPLETED WELL: 14 ft. Depth(s) Groundwater Encountered: 1) _____ ft. 2) _____ ft. 3) _____ ft., or 4) Dry Well WELL'S STATIC WATER LEVEL: _____ ft. below land surface, measured on (mo-day-yr) _____ above land surface, measured on (mo-day-yr) _____ Pump test data: Well water was _____ ft. after _____ hours pumping _____ gpm Well water was _____ ft. after _____ hours pumping _____ gpm Estimated Yield: _____ gpm Bore Hole Diameter: 8.5 in. to 14 in. and _____ in. to _____ ft.

5 Latitude: 38.209939 (decimal degrees) **Longitude:** -99.207365 (decimal degrees) Horizontal Datum: WGS 84 NAD 83 NAD 27 Source for Latitude/Longitude: GPS (unit make/model: Garmin etrek) (WAAS enabled? Yes No) Land Survey Topographic Map Online Mapper: _____ **6 Elevation:** 1640 ft. Ground Level TOC Source: Land Survey GPS Topographic Map Other _____

7 WELL WATER TO BE USED AS:

1. Domestic: <input type="checkbox"/> Household <input type="checkbox"/> Lawn & Garden <input type="checkbox"/> Livestock	5. <input type="checkbox"/> Public Water Supply: well ID _____	10. <input type="checkbox"/> Oil Field Water Supply: lease _____
2. <input type="checkbox"/> Irrigation	6. <input type="checkbox"/> Dewatering: how many wells? _____	11. Test Hole: well ID _____ <input type="checkbox"/> Cased <input type="checkbox"/> Uncased <input type="checkbox"/> Geotechnical
3. <input type="checkbox"/> Feedlot	7. <input type="checkbox"/> Aquifer Recharge: well ID _____	12. Geothermal: how many bores? _____ a) Closed Loop <input type="checkbox"/> Horizontal <input type="checkbox"/> Vertical b) Open Loop <input type="checkbox"/> Surface Discharge <input type="checkbox"/> Inj. of Water
4. <input type="checkbox"/> Industrial	8. <input checked="" type="checkbox"/> Monitoring: well ID MW-E	13. <input type="checkbox"/> Other (specify): _____
	9. Environmental Remediation: well ID _____ <input type="checkbox"/> Air Sparge <input type="checkbox"/> Soil Vapor Extraction <input type="checkbox"/> Recovery <input type="checkbox"/> Injection	

Was a chemical/bacteriological sample submitted to KDHE? Yes No If yes, date sample was submitted: _____ Water well disinfected? Yes No

8 TYPE OF CASING USED: Steel PVC Other _____ CASING JOINTS: Glued Clamped Welded Threaded Casing diameter 2 in. to 4 ft., Diameter _____ in. to _____ ft., Diameter _____ in. to _____ ft. Casing height above land surface -6 in. Weight _____ lbs./ft. Wall thickness or gauge No. Sch. 40

TYPE OF SCREEN OR PERFORATION MATERIAL: Steel Stainless Steel Fiberglass PVC Other (Specify) _____ Brass Galvanized Steel Concrete tile None used (open hole)

SCREEN OR PERFORATION OPENINGS ARE: Continuous Slot Mill Slot Gauze Wrapped Torch Cut Drilled Holes Other (Specify) _____ Louvered Shutter Key Punched Wire Wrapped Saw Cut None (Open Hole)

SCREEN-PERFORATED INTERVALS: From 4 ft. to 14 ft., From _____ ft. to _____ ft., From _____ ft. to _____ ft. GRAVEL PACK INTERVALS: From 3 ft. to 14 ft., From _____ ft. to _____ ft., From _____ ft. to _____ ft.

9 GROUT MATERIAL: Neat cement Cement grout Bentonite Other _____ Grout Intervals: From 2 ft. to 3 ft., From _____ ft. to _____ ft., From _____ ft. to _____ ft.

Nearest source of possible contamination: Septic Tank Lateral Lines Pit Privy Livestock Pens Insecticide Storage Sewer Lines Cess Pool Sewage Lagoon Fuel Storage Abandoned Water Well Watertight Sewer Lines Seepage Pit Feedyard Fertilizer Storage Oil Well/Gas Well Other (Specify) _____ Direction from well? NE Distance from well? 100' ft.

10 FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHO. LOG (cont.) or PLUGGING INTERVALS
0	14	Brown silty clay			

Original Returned to Sender for Correction Dates

Notes: _____

11 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was constructed, reconstructed, or plugged under my jurisdiction and was completed on (mo-day-year) 5-19-15 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 710 This Water Well Record was completed on (mo-day-year) June 1, 2015 under the business name of Below Ground Surface, Inc.

Mail 1 white copy along with a fee of \$5.00 for each constructed well to: Kansas Department of Health and Environment, Bureau of Water, GWTS Section, 1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367. Mail one to Water Well Owner and retain one for your records. Telephone 785-296-5524. Visit us at http://www.kdheks.gov/waterwell/index.html KSA 82a-1212 Revised 1/20/2015

WATER WELL RECORD Form WWC-5 *MW-E*

Division of Water Resources App. No. Well ID

Original Record Correction Change in Well Use

1 LOCATION OF WATER WELL: Fraction SE 1/4 SE 1/4 Section Number 21 Township Number T 21 S Range Number R 8 E W
 County: Rice

2 WELL OWNER: Last Name Phillips 66 Street or Rural Address where well is located (if unknown, distance and direction from nearest town or intersection): If at owner's address, check here:
 Business Address 1604-02 Phillips Bldg. 471 N. Broadway, Sterling, KS 38.209939
 City Bartlesville State: OK ZIP 74003 -98.207365

3 LOCATE WELL WITH "X" IN SECTION BOX:

N

NW	NE
X	
SW	SE

S

1 mile

4 DEPTH OF COMPLETED WELL: 14 ft.
 Depth(s) Groundwater Encountered: 1) 4 ft.
 2) --- ft. 3) --- ft. or 4) Dry Well
 WELL'S STATIC WATER LEVEL: --- ft.
 below land surface, measured on (mo-day-yr).....
 above land surface, measured on (mo-day-yr).....
 Pump test data: Well water was --- ft.
 after --- hours pumping --- gpm
 Well water was --- ft.
 after --- hours pumping --- gpm
 Estimated Yield: 8.5 gpm
 Bore Hole Diameter: 2.5 in. to 1.4 in. and --- in. to --- in.

5 Latitude: 38.20667 (decimal degrees)
Longitude: -98.20735 (decimal degrees)
 Horizontal Datum: WGS 84 NAD 83 NAD 27
 Source for Latitude/Longitude: Garmin etrex
 GPS (unit make/model: ---) (WAAS enabled? Yes No)
 Land Survey Topographic Map
 Online Mapper

6 Elevation: 1640 ft. Ground Level TOC
 Source: Land Survey GPS Topographic Map
 Other

- 7 WELL WATER TO BE USED AS:**
- | | |
|--|--|
| 1. <input type="checkbox"/> Domestic
<input type="checkbox"/> Household
<input type="checkbox"/> Lawn & Garden
<input type="checkbox"/> Livestock
<input type="checkbox"/> Irrigation
<input type="checkbox"/> Feedlot
<input type="checkbox"/> Industrial | 5. <input type="checkbox"/> Public Water Supply: well ID ---
6. <input type="checkbox"/> Dewatering: how many wells? ---
7. <input type="checkbox"/> Aquifer Recharge: well ID ---
8. <input checked="" type="checkbox"/> Monitoring: well ID MW-E
9. Environmental Remediation: well ID ---
<input type="checkbox"/> Air Sparge <input type="checkbox"/> Soil Vapor Extraction
<input type="checkbox"/> Recovery <input type="checkbox"/> Injection |
|--|--|
10. Oil Field Water Supply: lease ---
 11. Test Hole: well ID ---
 Cased Uncased Geotechnical
 12. Geothermal: how many bores? ---
 a) Closed Loop Horizontal Vertical
 b) Open Loop Surface Discharge Inj. of Water
 13. Other (specify): ---

Was a chemical/bacteriological sample submitted to KDHE? Yes No If yes, date sample was submitted: ---
 Water well disinfected? Yes No

8 TYPE OF CASING USED: Steel PVC Other --- CASING JOINTS: Glued Clamped Welded Threaded
 Casing diameter 2 in. to 4 in. Diameter --- in. to --- in. Diameter --- in. to --- in. ft.
 Casing height above land surface -6 in. Weight --- lbs./ft. Wall thickness or gauge No. Sch 40
 TYPE OF SCREEN OR PERFORATION MATERIAL:
 Steel Stainless Steel Fiberglass PVC Other (Specify) ---
 Brass Galvanized Steel Concrete tile None used (open hole)
 SCREEN OR PERFORATION OPENINGS ARE:
 Continuous Slot Mill Slot Gauze Wrapped Torch Cut Drilled Holes Other (Specify) ---
 Louvered Shutter Key Punched Wire Wrapped Saw Cut None (Open Hole)
 SCREEN-PERFORATED INTERVALS: From 4 ft. to 14 ft. From --- ft. to --- ft. From --- ft. to --- ft.
 GRAVEL PACK INTERVALS: From 3 ft. to 14 ft. From --- ft. to --- ft. From --- ft. to --- ft.

9 GROUT MATERIAL: Neat cement Cement grout Bentonite Other ---
 Grout Intervals: From 2 ft. to 3 ft. From --- ft. to --- ft. From --- ft. to --- ft.
 Nearest source of possible contamination:
 Septic Tank Lateral Lines Pit Privy Livestock Pens Insecticide Storage
 Sewer Lines Cess Pool Sewage Lagoon Fuel Storage Abandoned Water Well
 Wastight Sewer Lines Sepage Pit Feedyard Fertilizer Storage Oil Well/Gas Well
 Other (Specify) ---
 Direction from well? NE Distance from well? 100 ft.

10. FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHO LOG (cont) or PLUGGING INTERVALS
0	5	Concrete			
5	1	Sand			
1	2	Clay dark brown; some sand			
2	5	Sandy clay			
5	8	Sandy clay			
8	14	Sand; fine to medium			
Notes:					

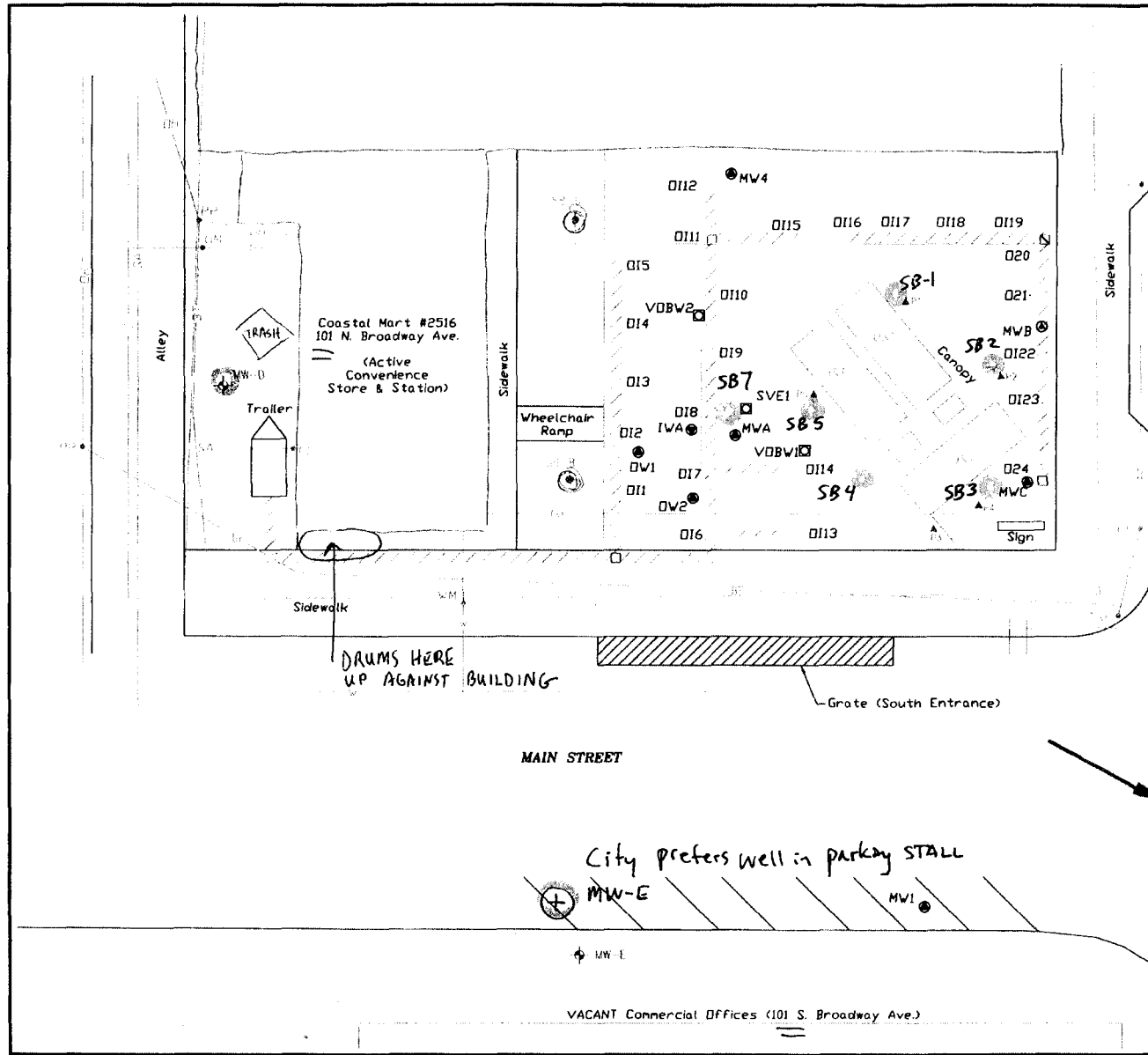
11 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was constructed, reconstructed, or plugged under my jurisdiction and was completed on (mo-day-yr) 5-19-15 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 710 This Water Well Record was completed on (mo-day-yr) June 1, 2015 under the business name of Below Ground Surface, Inc.


PM COPY

UTILITY LOCATE

LEGEND

- SB-1 - Proposed Soil Borings to Average Vadose Zone (8.0 feet)
- SB-2 - Proposed Geotech Soil Boring to 11 feet
- MW-D - Proposed Monitoring Wells To 15 Feet
- MW2 - Monitoring Well Location
- VDBW1 - Vapor Observation Well Location
- IWA - Injection Well Location
- PS - Soil Borings June 2007
- OI9 - Oxygen Injection Well
- Junction Box
- Trench Location
- NATURAL GAS (3-5 foot depth)
- STORM DRAIN / SEWER (4-6 foot depth)
- OVERHEAD ELECTRIC (20 foot height)
- WATER (4-5 foot depth)
- FIBER OPTICS (3-5 foot depth)
- PROPERTY LINE
- EXISTING UNDERGROUND STORAGE TANK (UST) SYSTEM COMPONENTS
- FORMER UNDERGROUND STORAGE TANK (UST)
- PLUGGED MONITORING WELLS
- ESTIMATED GROUNDWATER FLOW DIRECTION



1.0	 Cardno ATC Shaping the Future	
DETAILED SITE MAP U5-080-13052 COASTAL MART #2516 101 N. BROADWAY STERLING, KANSAS		
PROJECT NUMBER: 17.75000.4232	DOCUMENT: KRBCA	DRAWN BY: MV 03/19/15
FILE PATH: 5278-F1.DWG		CHECKED BY: JG 03/23/15