WATER WELL RECORD AS-5 **Form WWC-5** Division of Water Resources App. No. _____

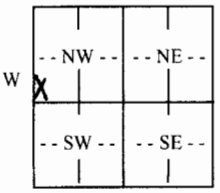
1 LOCATION OF WATER WELL: County: Sedgwick | Fraction: ¼ SW ¼ SW ¼ NW ¼ | Section Number: 6 | Township No.: T 26 S | Range Number: R 1 ☑E ☐W

Street/Rural Address of Well Location; if unknown, distance & direction from nearest town or intersection: If at owner's address, check here ☐.
1120 South Meridian Ave, Valley Center, KS

2 WATER WELL OWNER: RR#, Street Address, Box #: BP Amoco Box 15748
City, State, ZIP Code : Shawnee Mission, KS 66285

Global Positioning System (GPS) information:
Latitude: 37.81825 (in decimal degrees)
Longitude: 97.37175 (in decimal degrees)
Elevation: unknown
Datum: ☑ WGS 84, ☐ NAD 83, ☐ NAD 27
Collection Method:
☑ GPS unit (Make/Model: Garmin Geko 201)
☐ Digital Map/Photo, ☐ Topographic Map, ☐ Land Survey
Est. Accuracy: ☐ <3 m, ☐ 3-5 m, ☑ 5-15 m, ☐ >15 m

3 LOCATE WELL WITH AN "X" IN SECTION BOX:



4 DEPTH OF COMPLETED WELL 39 ft.
Depth(s) Groundwater Encountered (1) 15 ft. (2)..... ft. (3)..... ft.
WELL'S STATIC WATER LEVEL unknown 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 7.25 in. to 39 ft., and .....in. to .....ft.
WELL WATER TO BE USED AS: ☐ Public water supply ☐ Geothermal ☐ Injection well
☐ Domestic ☐ Feedlot ☐ Oil field water supply ☐ Dewatering ☑ Other (Specify below)
☐ Irrigation ☐ Industrial ☐ Domestic-lawn & garden ☐ Monitoring well air sparge point
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: ☑ Steel ☐ PVC ☐ Other .....
CASING JOINTS: ☐ Glued ☐ Clamped ☐ Welded ☑ Threaded
Casing diameter 1 in. to 36.5 ft., Diameter ..... in. to ..... ft., Diameter ..... in. to ..... ft.
Casing height above land surface 0 in., Weight 1.679 lbs./ft., Wall thickness or gauge No. 0.133"/Sch 40
TYPE OF SCREEN OR PERFORATION MATERIAL:
☐ Steel ☑ Stainless Steel ☐ PVC ☐ Other (Specify) .....
☐ Brass ☐ Galvanized Steel ☐ None used (open hole)
SCREEN OR PERFORATION OPENINGS ARE:
☐ Continuous slot ☐ Mill slot ☐ Gauze wrapped ☐ Torch cut ☐ Drilled holes ☐ None (open hole)
☐ Louvered shutter ☐ Key punched ☑ Wire wrapped ☐ Saw cut ☐ Other (specify) .....
SCREEN-PERFORATED INTERVALS: From 36.5 ft. to 39 ft., From ..... ft. to ..... ft.
From ..... ft. to ..... ft., From ..... ft. to ..... ft.
GRAVEL PACK INTERVALS: From 34.5 ft. to 39 ft., From ..... ft. to ..... ft.
From ..... ft. to ..... ft., From ..... ft. to ..... ft.

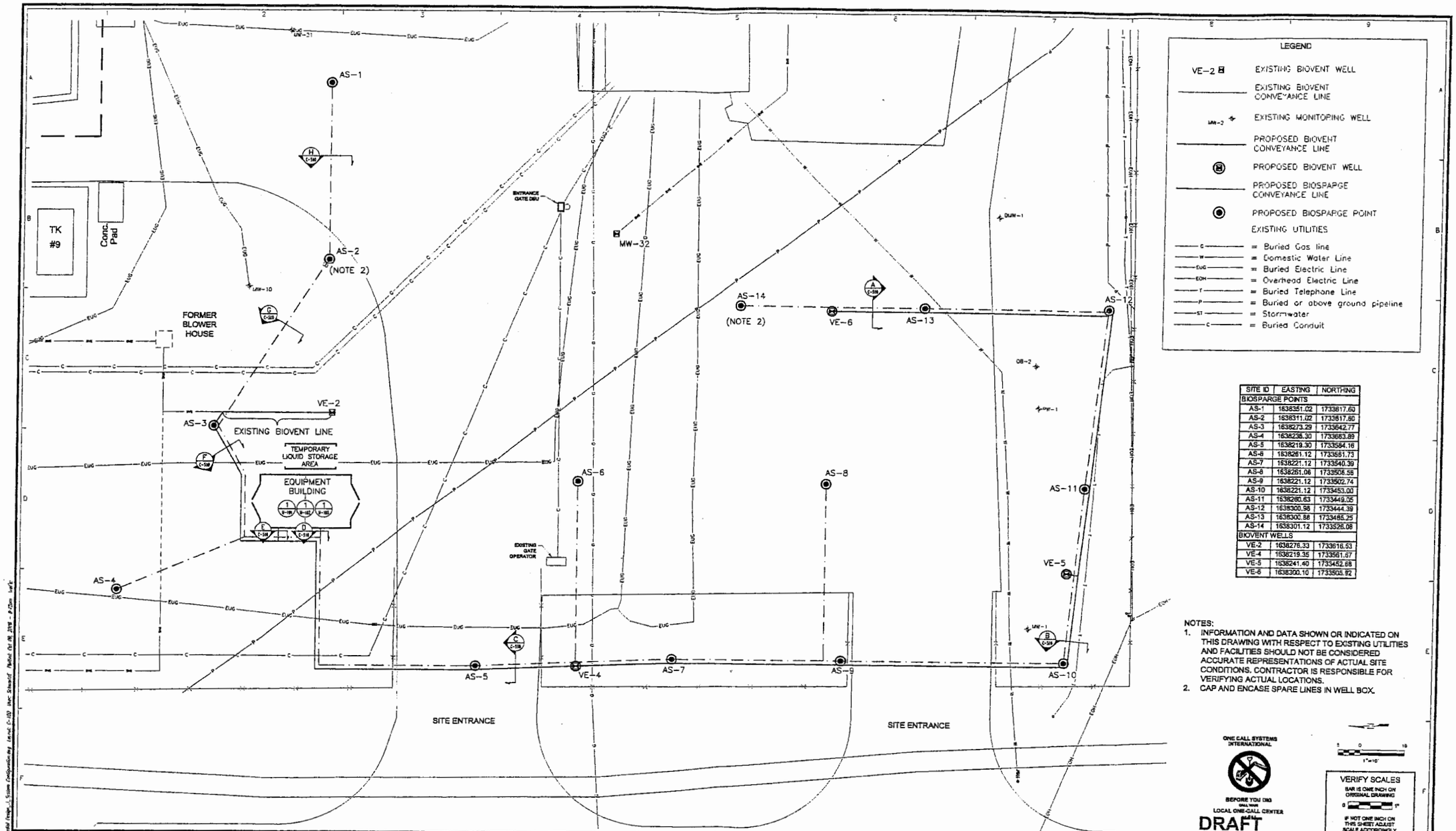
6 GROUT MATERIAL: ☐ Neat cement ☐ Cement grout ☑ Bentonite ☐ Other .....
Grout Intervals: From 4 ft. to 34.5 ft., From ..... ft. to ..... ft., From ..... ft. to ..... ft.
What is the nearest source of possible contamination:
☐ Septic tank ☐ Lateral lines ☐ Pit privy ☐ Livestock pens ☐ Insecticide storage ☐ Other (specify below)
☐ Sewer lines ☐ Cesspool ☐ Sewage lagoon ☑ Fuel storage ☐ Abandoned water well
☐ Watertight sewer lines ☐ Seepage pit ☐ Feedyard ☐ Fertilizer storage ☐ Oil well/gas well .....
Direction from well unknown Distance from well unknown

FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHO. LOG (cont.) or PLUGGING INTERVALS
0	7	Olive brown silt, some clay lenses			
7	10	Clay			
10	13.5	Sand			
13.5	14	Gray silt with thin clay lens			
14	39	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/year) 6/10/09 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 616 This Water Well Record was completed on (mo/day/year) 8/17/09 under the business name of Thiele Geotech, Inc. by (signature) .....

INSTRUCTIONS: Use typewriter or ball point pen. *PLEASE PRESS FIRMLY* and *PRINT* clearly. Please fill in blanks and check the correct answers. Send three copies (white, blue, pink) 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 copy to WATER WELL OWNER and retain one for your records. Include fee of $5.00 for each constructed well. Visit us at http://www.kdheks.gov/waterwell/index.html.

KSA 82a-1212 Check: ☑ White Copy, ☐ Blue Copy, ☐ Pink Copy



LEGEND

- VE-2 — EXISTING BIOVENT WELL
- EXISTING BIOVENT CONVEYANCE LINE
- MW-2 — EXISTING MONITORING WELL
- PROPOSED BIOVENT CONVEYANCE LINE
- PROPOSED BIOVENT WELL
- PROPOSED BIOSPARGE CONVEYANCE LINE
- PROPOSED BIOSPARGE POINT

EXISTING UTILITIES

- G = Buried Gas line
- W = Domestic Water Line
- EUG = Buried Electric Line
- EOH = Overhead Electric Line
- T = Buried Telephone Line
- P = Buried or above ground pipeline
- ST = Stormwater
- C = Buried Conduit

SITE ID	EASTING	NORTHING
BIOSPARGE POINTS		
AS-1	1638351.02	1733617.60
AS-2	1638311.02	1733617.60
AS-3	1638273.29	1733642.77
AS-4	1638238.30	1733663.89
AS-5	1638219.30	1733584.16
AS-6	1638261.12	1733581.73
AS-7	1638221.12	1733540.39
AS-8	1638261.06	1733506.56
AS-9	1638221.12	1733502.74
AS-10	1638221.12	1733453.00
AS-11	1638260.63	1733449.05
AS-12	1638300.56	1733444.39
AS-13	1638300.88	1733485.25
AS-14	1638301.12	1733526.08
BIOVENT WELLS		
VE-2	1638276.33	1733616.53
VE-4	1638219.35	1733561.67
VE-5	1638241.40	1733452.68
VE-6	1638300.10	1733505.92

NOTES:
1. INFORMATION AND DATA SHOWN OR INDICATED ON THIS DRAWING WITH RESPECT TO EXISTING UTILITIES AND FACILITIES SHOULD NOT BE CONSIDERED ACCURATE REPRESENTATIONS OF ACTUAL SITE CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ACTUAL LOCATIONS.
2. CAP AND ENCASE SPARE LINES IN WELL BOX.

ONE CALL SYSTEMS INTERNATIONAL
BEFORE YOU DIG CALL YOUR LOCAL ONE-CALL CENTER

DRAFT

1" = 10'

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET ADJUST SCALE ACCORDINGLY

NO	BY	DATE	REVISION	CHKD	DATE	APPVD	DATE
7							
6							
5							
4							
3							
2							
1							
0	E.S.S.	09/25/08	ISSUED FOR REVIEW				

bp

ENSR | AECOM

ENSR CORPORATION
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BP Products North America, Inc.
Valley Center Terminal
Valley Center, Kansas

PROJ. NUMBER: 01007-277-500 | DATE: 09/25/08

BIOSPARGE/BIOVENT SYSTEM CONFIGURATION

BIOSPARGE/BIOVENT SYSTEM DESIGN

DRAWING NUMBER: C-101

SHEET NUMBER: