Form WWC-5 Division of Water WATER WELL RECORD MW1 Resources App. No. X Correction Change in Well Ust Original Record LOCATION OF WATER WELL: Section Number | Township Number Fraction Range Number NW ¼ NW ¼ NW ¼ SE ¼ 10 T 19 S R 11 X E W County Lyon Street or Rural Address where well is located (if unknown, distance and direction WELL OWNER: Last Name: Shepard First: Jim from nearest town or intersection): If at owner's address, check here: Business: S & S Oil - Downtown Address: 1102 Commercial 1102 Commercial, Emporia, KS Address: State: KS ZIP: City Emporia 38.41122 LOCATE WELL DEPTH OF COMPLETED WELL: 45.5 ft Latitude: (decimal degrees) Longitude 96.17985 WITH "X" IN Depth(s) Groundwater Encountered: 1) (decimal degrees) 2) ft 3) ft, or 4) Dry Well Horizontal Datum: WGS 84 NAD 83 NAD 27 SECTION BOX: WELL'S STATIC WATER LEVEL: 37.59 ft. Source for Latitude/Longitude: X below land surface, measured on (mo-day-yr) 3/22/2017 GPS (unit make/model: (WAAS enabled? Yes No) above land surface, measured on (mo-day-yr) Pump test data: Well water was fi X Land Survey Topographic Map Online Mapper after hours pumping gpm Water well was Elevation 1162.19 ft Ground Level X TOC after hours pumping Source X Land Survey GPS Topographic Map Estimated Yield: _____gpm Bore Hole Diameter: 7.25 in to ft, and Other in to ft WELL WATER TO BE USED AS: 5 Public Water Supply: well ID 10 Oil Field Water Supply: lease 1 Domestic: 11 Test Hole: well ID Household Dewatering: how many wells? Lawn & Garden Aquifer Recharge: well ID Cased Uncased Geotechnical Livestock 8 X Monitoring: well ID MW1 12 Geothermal: How many bores? a) Closed Loop Horizontal Vertical
b) Open Loop Surface Discharge Inj. of Water Irrigation 9 Environmental Remediation: well ID Air Sparge Soil Vapor Extraction Feedlot Other (specify): Industrial Recovery Injection Was a chemical/bacteriological sample submitted to KDHE? Yes X No If yes, date sample was submitted: Water well disinfected? Yes X No TYPE OF CASING USED: Steel X PVC Other CASING JOINTS: Glued Clampled Welded X Threaded Casing diameter 2 in. to 30.5 ft, Diameter in. to

Casing height above land surface -0.27 in. Weight I ft, Diameter in to ft, lbs./ft. Well thickness or gauge No TYPE OF SCREEN OR PERFORATION MATERIAL: Fiberglass X PVC Other (Specify) Steel Stainless Steel Galvanized Steel Brass Concrete tile None used (open hole) SCREEN OR PERFORATION OPENINGS ARE: Continuous Slot X Mill Slot Other (Specify) Gauze Wrapped Torch Cut Drilled Holes Louvered Shutter Key Punched Wire Wrapped Saw Cut None (Open Hole) SCREEN-PERFORATED INTERVALS: From 30.5 ft. to 45.5 ft, From ft. to ft, From ft. to ft, 28 ft. to ft. to ____ft, From ___ft. to ____ GRAVEL PACK INTERVALS: From 45.5 ft, From X Other Concrete: 0-0.5' 9 GROUT MATERIAL: Neat cement Cement grout X Bentonite Grout intervals: From 0.5 ft. to 28 ft, From ft. to ft, From ft. to ft, Nearest source of possible contamination: Lateral Lines Livestock Pens Septic Tank Pit Privy Insecticide Storage Sewer Lines Cess Pool Sewage Lagoon X Fuel Storage Abandoned Water Well Watertight Sewer Lines Seepage Pit Feedyard Fertilizer Storage Oil Well / Gas Well Other (Specity) Direction from well? N Distance from well? LITHOLOGIC LOG 10 FROM TO FROM L!THO. LOG (cont.) or PLUGGING INTERVALS 0 0.3 Concrete 0.3 36 Silty clay 36 41 Clayey silt 41 45.5 Clavey silt w/ increasing chert grave! Notes: KDHE ID: S&S Oil - Downtown: U3-056-14869 Target of monitoring well is shallow groundwater, <20' of grout was installed at the direction of KDHE. CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was X constructed, reconstructed, or Stagged under my jurisdiction and was completed on (mo-day-year) 3/21/17 and this record is true to the best of my knowledge and belief. Kansar Water Well Contractor's License No 757 This Water Well Record was completed on (mo-day-year) 4/11/17 under the business name of Larsen & Associates. Inc. Signature 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 7/10/2015

DENNIS L HANDKE

1820 NW 59th Terrace TOPEKA, KANSAS 66618 785-286-4047 Home 785-286-1990 Fax

Jessica Chapman Larsen & Associates 1311 E. 25th Street, Suite B Lawrence, Kansas, 66046

March 30, 2017

RE: Monitor Well Elevation Survey 1102 Commercial, Emporia, Kansas

Proj. 17-00M S & S Oil - Downtown U3-056-14869

Bench Mark: Chisled Square on South center of concrete pump island West of the building. Elev: 1163.12 North 2297 West 2586 (from SE Cor. Sec. 10-19-11E) MW-1 1162.46 rim North 2266 NW1/4,NW1/4,NW1/4,SE1/4 top pipe 1162.19 West 2566 Lat= 38.41122 Long = 96.17985 MW-2 гiт 1162.60 North 2306 NW1/4,NW1/4,NW1/4,SE1/4 top pipe 1162.35 West 2592 Lat= 38.41133 Long = 96.17994MW-3 rim 1162.92 2284 North NW1/4,NW1/4,NW1/4,SE1/4 top pipe 1162.57 West Lat= 38.41127 Long = 96.17952 2470 MW-4 1163.69 rim North 2425 NW1/4,NW1/4,NW1/4,SE1/4 top pipe 1163.41 2507 West Lat= 38.41165 Long = 96.17964MW-5 rim 1160.52 North 2199 SW1/4,NW1/4,NW1/4,SE1/4 1160.27 top pipe West 2551 Lat= 38.41103 Long = 96.17980MW-6 rim 1160.53 North 2168 SE1/4, NE1/4, NE1/4, SW1/4 top pipe 1160.23 West 2700 Lat= 38.41095 Long = 96.18032MW-7 rim 1161.57 North 2328 NE1/4,NE1/4,NE1/4,SW1/4 top pipe 1161.26 West 2680 Lat= 38. 41139 Long = 96.18025

Lat & Long derived existing Emporia 7.5' quad map. WGS 84.

Elevation established from USGS BM V222 NAVD 83.

If you have any questions, please feel free to call me. Thank you for the opportunity to be

Donnis L Handke RES

RECEIVED

MAY 30 2017

BUREAU OF WATER