Rosencrantz-Bemis Drilling Co.
A Division of Rosencrantz-Bemis Ent. Inc.
P.O. Box 713
Great Bend, KS 67530
620-793-5512
r-bwater@hotmail.com

Invoice

Date	Invoice #
7/14/2015	47952

Bill To	Location
Southwestern College P.O. Box 1 Pratt, KS 67124	NW 5-27-14 Tom Schnittkner

State Inc + Plugging report made

Date	Qty	Description	Amount
6/11/2015	6	Labor and drive- rig up, removed gearhead ID # A503008 and discharge head. Pulled 100ft. of 8" OL column pipe with a 3 stage bowl assembly. Measured the well at 138ft. with a 44ft. water level. Loaded parts to bring in for repair.	900.00
	54	Service Truck Mileage Charge	135.00
6/11/2015	165	Drilled Test Well- 165ft.	1,732.50
	54	Drill Rig Mileage Charge	270.00
6/17/2015	146	Drilled 16" Irrigation Well- 146ft.	16,060.00
	116	PVC casing 16" plain- 116ft. * Sales tax has been paid *	
	30	PVC casing 16" perf- 30ft. * Sales tax has been paid *	
	1	PVC cap 16" * Sales tax has been paid *	
	1	Hole Plug 3000# Bags	400.00T
	1	Gravel & Delivery	2,599.44T
	3	Backhoe Charge	285.00
	1	Pit liner 40' x 100' * Sales tax has been paid *	217.21
	1	Irrigation Mobilization	850.00
6/18/2015	1	Test Pump & Develop well	1,200.00
	1	Set 8' 6" x 12ft. forms, cemented well, poured pad and plugged old well.	650.00T
	1	Concrete & Delivery * Sales tax has been paid *	692.56
	1	Galv. Nipple 1 1/4" x 12"	15.39T
	1	Galv. Nipple 1 1/4" x 6"	5.05T
	1	Galv. Cap 1 1/4"	4.19T
	1	Galv. Coupler 1 1/4"	7.55T
	1	PVC female adaptor 1 1/4"	1.56
	7	Backhoe charge with extra man	910.00
6/19/2015	190	PVC Pipe 8" 80#- 190ft.	516.80T
	29	Steel Pipe 8 5/8" 188- 29ft.	507.50T
	2	Dresser Sleeve 8" PIP x 8" IPS x 18"	913.20T
	2	Steel 90 Degree Ell 8" Weld on * Sales tax has been paid *	398.52

Please pay from this invoice to avoid any finance charges.
1.5% Finance charge will be added each month after 30 days.

Subtotal	
Sales Tax (8.25%) Pratt Co. Farm	
Total	

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Date	Qty	Description	Amount
	2	Steel 45 degree ell 8" * Sales tax has been paid *	456.30
	1	Flow tube 8 5/8"	196.00
	2	Steel Flange 8 5/8"	84.00
	1	Steel Flange 8"	42.00
	3	Gasket 8"	24.24
	16	Bolts & Nuts 3/4" x 2"	31.52
	2	Heat Exchanger gasket	39.20
	1	Low pressure drain	11.70
	4	Quick Setting quick crete * Sales tax has been paid *	24.00
	7.5	Backhoe charge with extra man	975.00
	54	Service Truck Mileage Charge	135.00
	1	Welding charge	1,231.31
	9	Machine shop time- disassemble a 3 stage bowl assembly. Clean, inspect and replace parts needed. Installed brass rings & repaired tube adaptor. Serviced 80Hp 6:5 gearhead #503008.	585.00
	1	SS Bowl shaft 1 1/2" x 67 3/4"	368.78
	2	Bearings 1 1/2" x 1 3/4" x 4"	68.60
	1	Bearings 1 1/2" x 1 3/4" x 6"	51.10
	1	Tube Adaptor BRG 2 1/2" x 1 1/2"	158.90
	1	Bearings 1 3/16" x 2"	47.60
	2	Seal #14846	17.90
	3	Brass Wear ring	273.00
	1	Sight Glass Kit	12.53
	2.5	Mag 100 per gallon	33.55
6/23/2015	6.5	Labor, load and drive- rig up and ran in 90ft. of 8" OL column pipe with a 3 stage bowl assembly. Set the discharge head, gearhead and impellers.	975.00
	4	Oil Tube Complete 2" x 1 3/16" x 20ft.	2,455.60
	1	Oil Tube Complete 2" x 1 3/16" x 10ft.	394.80
	2	Spider BW 8"	51.16
	1.5	Rope packing- 1 1/2FT.	11.76
	2	Air relief valve 3"	136.00
	1	Head Shaft Nut 1 3/16" LH 10TPI CR	36.40

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Subtotal	
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Total	

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Date	Qty	Description	Amount
	3	Mag 32 per gallon	37.26
	54	Service Truck Mileage Charge	135.00

Copy of state log, plugging report, test log, & test pump results sent w/ invoice.

Please pay from this invoice to avoid any finance charges.
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Subtotal	$38,371.68
Sales Tax (8.25%) Pratt Co. Farm	$463.58
Total	$38,835.26

Rosencrantz-Bemis Drilling Co.
P.O. Box 713
Great Bend, KS 67530
Phone 620-793-5512 or 620-792-2488

TEST PUMPING & PUMP INSTALLATION

Customer The Southwestern College/ Tom Schnittkner Date 6/18/2015

Well Site #35,004

Quarter NW Section 5 Township 27 Range 14 County Pratt

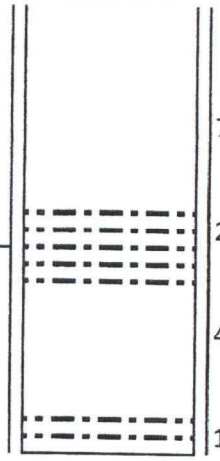
Test Pumping Results

New well X Workover ____ Well Depth 146 Ft.
Water level at start 39 at finish 48 Pumped ____ hours before test
through 8 inch discharge. Ran 140 ft of Test pump, ____ ft of Tailpipe
Gravel settled ____ ft. Casing cut off at ____ ft. Above or below ground level ____ ft
Did well pump ____ sand or ____ mud for ____ hours. Water sample: Yes ____ No ____

RPM	GPM	PWL	TIME
	605	67ft	
	707	71'	
	895	76'	
	1036	79'	

REMARKS

Well Record- 146ft
30" Bore hole
16" PVC plain casing
16" PVC perf
Gravel pack- #1 coarse
Closed PVC cap



PUMP INSTALLATION

New ____ Used ____ Well Depth ____ Pump Setting ____
Make ____ Water Lube ____ Oil Lube ____ Drive shaft sz ____
Column: ____ in., ____ joints. Total footage ____ Type ____
Bowls: ____ Length ____ Diam. ____ Impeller ____ Stages ____
Head Serial No. ____

POWER

Gearhead: Make ____ Hp ____ Ratio ____
Frame ____ Type ____ Head shaft size ____
Serial No. ____

Electric Motor Make ____ Hp ____ Volts ____
Amps ____ Model ____ RPM ____ Phase ____ Cycle ____
Serial No. ____

Operator ____

WATER WELL RECORD — Form WWC-5

Division of Water Resources App. No. 35,004

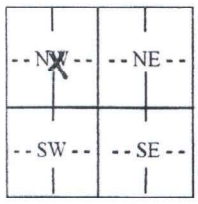
1 LOCATION OF WATER WELL: County: Pratt | Fraction: ¼ ¼ NC ¼ NW ¼ | Section Number: 5 | Township No.: T 27 S | Range Number: R 14 ☐E ☑W

Street/Rural Address of Well Location; if unknown, distance & direction from nearest town or intersection: If at owner's address, check here ☐.
3 3/4 South, 3/4 West of Byers

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

2 WATER WELL OWNER: The Southwestern College
RR#, Street Address, Box #: PO Box 1
City, State, ZIP Code : Pratt. KS 67124

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



4 DEPTH OF COMPLETED WELL 146 ft.
Depth(s) Groundwater Encountered (1)..... ft. (2)..... ft. (3)..... ft.
WELL'S STATIC WATER LEVEL 48 ft. below land surface measured on mo/day/yr. 6-18-15
Pump test data: Well water was 76 ft. after 3 hours pumping 895 gpm
EST. YIELD 1036 gpm. Well water was 79 ft. after 3 1/2 hours pumping 1036 gpm
Bore Hole Diameter 30 in. to 146 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 .....
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 16 in. to 146 ft., Diameter ..... in. to ..... ft., Diameter ..... in. to ..... ft.
Casing height above land surface 18 in., Weight Sch 40 lbs./ft., Wall thickness or gauge No. .....
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 146 ft. to 136 ft., From ..... ft. to ..... ft.
From 96 ft. to 76 ft., From ..... ft. to ..... ft.
GRAVEL PACK INTERVALS: From 146 ft. to 20 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 ..... ft. to ..... ft., From 20 ft. to 0 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 None
☐ Watertight sewer lines ☐ Seepage pit ☐ Feedyard ☐ Fertilizer storage ☐ Oil well/gas well
Direction from well ..... Distance from well .....

FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHO. LOG (cont.) or PLUGGING INTERVALS
0	8	Fine sand	125	134	Tan clay & caliche
8	21	Sandy tan & gray clay	134	144.5	Sand & gravel- small to med
21	27	Fine sand	144.5	145.5	Hard cemented sand
27	54	Sandy clay & sand	145.5	146	Sand & gravel- small to med
54	67	Sand w/ clay streaks			
67	80	Sand & gravel- fine to small			
80	94	Sand & gravel- small to med			
94	105	Tan clay			
105	110	Soft cemented sand			
110	125	Sandy clay & caliche			

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) 6-27-15 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 134 This Water Well Record was completed on (mo/day/year) 7-9-15 under the business name of Rosencrantz- Bemis Ent 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 one copy to Kansas Department of Health and Environment, Bureau of Water, Geology Section, 1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367. Telephone 785-296-5524. 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

SA 82a-1212