



# Hydro resources

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Garden City, KS 67846

CUSTOMER'S NAME GARY JANTZ DATE 9/30/11  
 STREET ADDRESS 3703 Y ROAD TEST # 2 E. LOG Up  
 CITY & STATE MONTEZUMA, KS 67867 DRILLER Dino Kozzel  
 COUNTY Chey QUARTER SE SECTION 32 TOWNSHIP 27 RANGE 30  
 RIG # 38 WO 3104 WELL LOCATION  
 LOCATION 2580 SOUTH W EXISTING WELL ELEVATION 2884  
 GPS 32.649614N 100.623970W (Customer says 230)

Static Water Level: 290  
Proposed Well Depth: 426'

%	FOOTAGE			DESCRIPTION OF STRATA
	From	Pay	To	
	0		2	Surface
	2		47	Brown Clay
	47		81	Brown Clay, limestone
	81		101	White Clay
	101		177	Sand, fine to med, coarse, small - long gravel, ledge, cobblestone
	177		195	Brown Clay
	195		243	Sand, fine to med, coarse
	243		261	Brown Clay, limestone
	261		279	White Clay, limestone
	279		325	Brown Clay, limestone
	325		344	Brown Clay, limestone
10%	344	14	358	Sand, silt, clay (Duble tight)
20%	358	11	369	Sand, fine to med, coarse, few clay
45%	369	47	416	Sand, fine to med, coarse, small - med gravel, brown + tan rock
	416		424	Soapstone
	424		440	Grey Shale, soapstone (Shifting Grounds)
		72		

INCLUDING 10' SUMP  
W.O. # 4951

- 3-MaxGel
- 5-Gopher Guard
- 5-Boitamb Plug
- 1-Perma Plug
- 40-Quatern

## Casing/Screen/Gravel Schedule

October 5, 2012

Gary Jantz / Ryan Jantz  
Montezuma, KS

WO# 495/

Well Depth - 426 ' Including 10' Sump

SE 32-27-30 GY

Test Hole # 2 of 9-30-11

GPS: 37.64961 N 100.62393 W

Drill 24" hole

16" Steel Casing & Screen

<u>Depth</u>		<del>16" Steel Casing</del> 16" Ag Screen	<u>Slot Size</u>	<u>16" casing (.219)</u>	<u>Cone</u>
426	425				1
425	416			9	
416	346	70	0.080		
346	0			346	
	<b>Totals</b>	70		355	1
				<b>TOTAL</b>	<b>426</b>

420 Ft 1"PVC. pipe (Perforate the bottom 2 sections)  
( 9 doubles & 1 single of plain & 1 double of perforated)

30 Ft 3" PVC Gravel tube

110 Gal Sodium Hypochlorite 1 Tote

426 20 Huber  
# 1 Coarse 46 Tons

20 0 Bentonite Chips 60 Scks

KRR



620-277-2389  
1-800-742-5899 Toll Free  
620-277-0224 Fax

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www.hydroresources.com

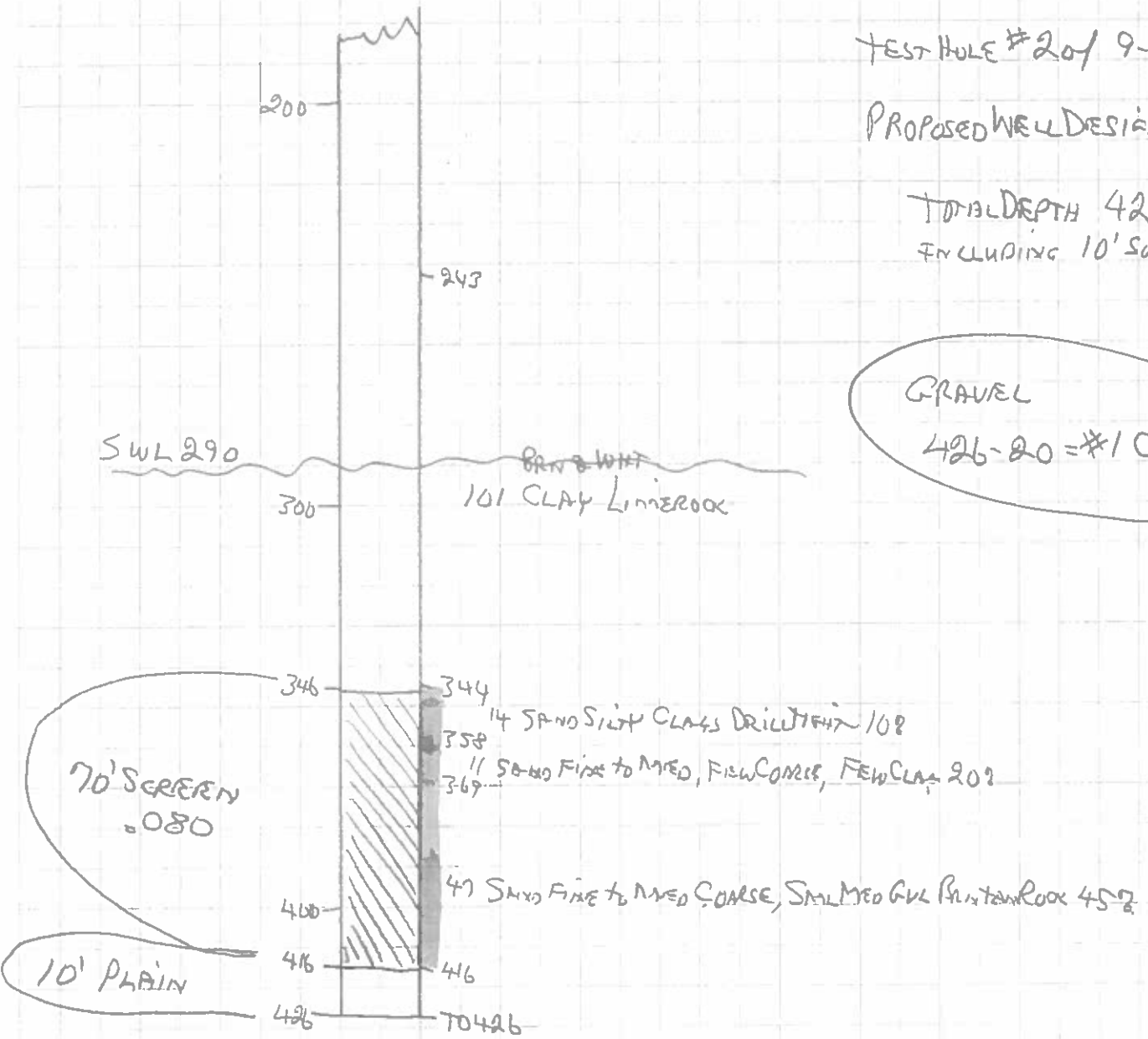
GARY JANTZ  
RYAN JANTZ  
SE 32-27-30 GY

TEST HOLE #20/ 9-30-11

PROPOSED WELL DESIGN

TOTAL DEPTH 426  
INCLUDING 10' SUMP

GRAVEL  
426-20 = #1 COARSE



70' SCREEN  
#080

10' PLAIN

TOTAL SCREEN = 70'



**TEST PUMP ANALYSIS**

**NAME: GARY JANTZ** **DATE: 10/12/12**  
**COUNTY: GRAY** **QUARTER: SE** **SECTION: 32** **TOWNSHIP: 27** **RANGE: 30**  
**TOTAL DEPTH OF WELL: 426'** **DRILLER: GERARDO SANTOS CREW**  
**STATIC WATER LEVEL: 301'** **TYPE OF WELL: IRRIGATION**  
**WELL DRILLED ON TEST: #2** **TESTING EQUIPMENT: FACTOR: 8.25 X 6.7**  
**CASING DIAMETER: 16"** **ENGINE FACE: WEST**  
**TOTAL PERFORATION: 346** **PUMP SET: 412' + BOWL**  
**TOP PERFORATION @ 70'** **DISCHARGE FACE: EAST**  
**PIT ON: EAST**

<b>GPM</b>	<b>RPM</b>	<b>TOTAL LIFT</b>	<b>DRAWDOWN</b>	<b>TIME</b>	<b>REMARKS</b>
				9:30	SURGE WELL AND DEVELOP TO CLEAN
				10:30	START STEP TEST
815	1437	314	13	11:00	NO AIR – NO SAND
1009	1517	317	16	11:30	NO AIR – NO SAND
1209	1629	320	19	12:00	NO AIR – NO SAND
1503	1828	326	25	1:00	NO AIR – NO SAND
					WAIT 30 MINS. FOR RECOVERY
					TESTED WITH SOLID SEAL

THE ABOVE RESULTS ARE AS OBSERVED ON THIS DATE. THERE IS NO GUARANTEE THE WELL WILL CONTINUE TO PRODUCE AS TESTED AFTER LONG PERIODS OF PUMPING OR AT DIFFERENT TIMES OF THE YEAR.

**TESTED BY: ERNESTO FUENTES**

**DATE: 10-12-12**

WATER WELL RECORD Form WWC-5

Original Record Correction Change in Well Use

Division of Water Resources App. No.

14936

Well ID

1 LOCATION OF WATER WELL: County: Gray Fraction SE 1/4 SW 1/4 SW 1/4 SE 1/4 Section Number 32 Township Number T 27 S Range Number R 30 E W

2 WELL OWNER: Last Name: Jantz First: Garv Street or Rural Address where well is located (if unknown, distance and direction from nearest town or intersection): APPROX 20 MILES SOUTH EAST OF PIERVEVILLE KANSAS

3 LOCATE WELL WITH 'X' IN SECTION BOX: [Diagram] 4 DEPTH OF COMPLETED WELL: 426 ft. 5 Latitude: 37.64961 Longitude: 100.62392

7 WELL WATER TO BE USED AS: 1. Domestic 2. Irrigation 3. Feedlot 4. Industrial 5. Public Water Supply 6. Dewatering 7. Aquifer Recharge 8. Monitoring 9. Environmental Remediation 10. Oil Field Water Supply 11. Test Hole 12. Geothermal 13. Other

Was a chemical/bacteriological sample submitted to KDHE? Water well disinfected?

8 TYPE OF CASING USED: Steel PVC Other CASING JOINTS: Glued Clamped Welded Threaded

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

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 346 ft. to 416 ft. GRAVEL PACK INTERVALS: From 0 ft. to 426 ft.

9 GROUT MATERIAL: Neat cement Cement grout Bentonite Other Grout Intervals: From 0 ft. to 20 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

Direction from well? N Distance from well? 65 ft.

Table with columns: FROM, TO, LITHOLOGIC LOG, FROM, TO, LITHO. LOG (cont.) or PLUGGING INTERVALS. Includes a Notes section.

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) 10/9/2012

Form	WWC5
Contractor	Hydro Resources Mid Continent, Inc.
Well Owner	Gary Jantz
Doc ID	1100312

#### Litholgy

From	To	Lithologic Log
0	2	SURFACE
2	47	BROWN CLAY
47	81	BROWN CLAY FINE SAND
81	101	WHITE CLAY
101	177	SAND FINE-MED COARSE SMALL-LRG
177	195	BROWN CLAY
195	243	SAND FINE TO MED COARSE
243	261	BROWN CLAY LIMEROCK
261	279	WHITE CLAY LIMEROCK
279	325	BROWN CLAY LIMEROCK
325	344	BROWN CLAY, FEW SILT SAND
344	358	SAND, SILTY CLAYS
358	369	SAND FINE TO MED FEW COARSE FEW CLAY
369	416	SAND FINE TO MED COARSE SMALL-MED GROUT BROWN&TAN ROCK
416	424	SOAPSTONE
424	440	GREY SHALE SOAPSTONE SLUTTERY GROUTS