

Jeffrey

Attached is the cost breakdown, with estimates for the completion of the New Well (Well K) at Zorro Ranch for your consideration
Also photos of the control panel and completed trenching/pipe for your reference.

The operational design changed due to the existing Control Panel limitations to operate the On/Off function on the proposed 3-phase converter and Well Pump controller

The new design is a simpler single-phase controller and pump; this also decreases start up cost.

Proposed Operational Plan

- Use the existing control panel at Well 4 to operate Well K.
This is done by simply disconnecting 2 control wires from Well 4 and running new control wires from Well K to Control Panel, 900ft.
If in the future there is a need to have three Wells operating at one time, then an additional control panel could be added.
- Rest Well 4 for 2013, use and test Well K. In doing so Zorro Ranch should meet conditions laid out in the Settlement Agreement for Permit E 7871,
"January 15, 2014 Well K must have pumped 25% of permitted allotment (68 afa)"
This will also allow Zorro Ranch to pay back some of the over diversion that has occurred over the years at the Well 4 location.
- The next step is to develop a water usage plan to meet conditions of the Permit E 7871.
Recommend this happens during the course of 2013 while pumping of Well K is occurring. This will give the Ranch confirmed production data to develop such a plan.

Notes:

Not included in the development cost is the plugging of the existing borehole by HGS.

Original estimates ranged from \$15k to \$20k, this is still to be negotiated.

Casey Cook is recommending developing borehole as a well, which would be an estimated cost of \$25k. I will forward my recommendations by the end of next week. The relocating of the water rights from permitted sight to Well K should be completed by the end of the year, barring any protest filed.

If the attached plan and estimates meets approval, Well K should be fully operational by the end of 2012.

HydroGeologic Services, Inc.

Box 94716
 Albuquerque, NM 87199-4716

Estimate

Date	Estimate #
10/24/2012	78

Name / Address
Cypress Inc. c/o Zorro Trust 

Project
Pump System

Description	Qty	UOM	Cost	Total
Revised 10/24/2012 Pump System Installation				
10 HP 230 V 3 PH/45 GPM Submersible Pump/Motor	1	LS	5,150.00	5,150.00
4 x 6 Pump Adapter	1	EA	414.00	414.00
2" Galv. pipe w/coupling	546	LF	7.00	3,822.00
2" x 10" Stainless Steel Nipple	1	EA	40.00	40.00
#2 wire	550	LF	8.50	4,675.00
#2 splice kit	1	EA	35.00	35.00
Tape	3	roll	15.00	45.00
2" Meter w/couplings	1	EA	1,235.00	1,235.00
Miscellaneous piping/fittings	1	EA	500.00	500.00
10 HP Franklin Electric Deluxe Control Box 1 PH 230V	1	EA	1,150.00	1,150.00
1" Sounding Tube	520	LF	1.00	520.00
Labor to install	1	LS	3,600.00	3,600.00
Furnish/Install Pitless adapter	1	LS	4,650.00	4,650.00
Well Head Seal/Protector	1	EA	815.00	815.00
Santa Fe Remainder of County			6.625%	1,765.63
This Estimate is valid for 90 days.			Total	\$28,416.63

RMC Electric-Randy Morales

Box 10645

Albuquerque NM 87184

Estimate/Bid

October 25, 2012

Attn: [REDACTED]

To: Zorro Ranch

Job: Well K

1) 300ft of 2" PVC	\$ 202.00
2) 2-2 LB 20/ea	\$ 40.00
3) 1-2 pole, 100 amp breaker	\$ 150.00
4) 1-100 amp breaker in door panel	\$ 200.00
5) 3-300ft runs of 1/10 copper Thhn wire	\$ 2,750.00
6) 1-300ft run #2 copper Thhn groung wire	\$ 360.00
7) Miscellaneous fittings	\$ 250.00
8) 3x5 Nema 3R J-Box	\$ 880.00
9) 5000ft of #12 control wire	\$ 1,050.00
10) Well control Relay	\$ 450.00
11) 1500ft of 1 1/4 " intra duct	\$ 845.00

Materials \$ 7,177.00

Labor \$ 4,000.00

Total \$ **11,177.00**



