Case 6:01-cv-00072-MV-WPL Document 3305-8 Filed 08/12/16 Page 1 of 21

Other chronic losses are associated with leakage through the concrete bottoms of the holding tank and water troughs as well as from leaks associated with interconnecting pipe fittings and valves. Infrastructure at the well 10A-5-W06 location was 45 years old in 2000 when last used significantly for livestock watering purposes. To reduce excessive leakage, the Defendants have replaced or repaired the concrete bottom of two tanks, three times in the past ten years. The Defendants removed one water drinker in 2007 to mitigate these kinds of losses (Figure 23). Despite Tom Cox testimony that he didn't recall any leaks (Cox Dep. 75:14-20), Figure 24 shows at least seven leak repairs in this drinker as well as corrosion failure at the base.



Figure 23 – Removal of Leaking Drinker

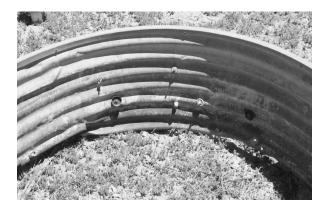


Figure 24 – Prior Repairs to Drinker

Evidence of previous leaks and repairs is readily observable at the well site; Figures 25 and 26 represent examples. Failure of the concrete is associated with freeze-thaw cycling, frost heave and weathering of the concrete itself. The main holding tank is known to be a significant and unmitigated source of leakage as evidenced by standing water below ground level in the main storage tank valve box, Figure 27. Valve stem packing failure and aging piping and fittings contribute smaller amounts to the chronic leakage total as well.



Figure 25 – Storage Tank Leak

The cumulative effect of chronic leaks for the well 10A-5-W06 infrastructure can be determined by observing the rate of water level drop in the 10-foot tall, main holding tank. Based on my observation, the water level drops approximately one foot per week. Subtracting evaporation and wildlife usage, the system leakage rate appears to be at least 0.1 gpm. The historic annual loss of water due to chronic leaks is projected to have been 52,560 gallons.

Figure 26 – Seam Leak

Figure 27 - Water in Valve Box

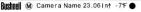
Although the leaks are likely to be distributed throughout the entire water delivery and storage system, this annual loss is the equivalent of leakage through a single, 0.05-inch diameter hole in the bottom of the main holding tank at 10 feet of pressure head. Chronic leakage associated with water delivery systems is reported by the cattle industry and is not unique to the subject infrastructure. A study of water use in feedyards found that 7% of total water delivered to troughs was lost through threaded fittings alone (Parker, 2000). The annual leakage of 52,560 gallons per year calculated above is similar in magnitude to the 57,106 gallon loss that can be

Case 6:01-cv-00072-MV-WPL Document 3305-8 Filed 08/12/16 Page 3 of 21

calculated by applying a 7% loss rate to the 815,802 gallons of water consumed each year as determined in Section 5.5.

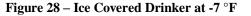
Another significant loss was associated with the removal of ice from the drinkers during the winter months. Based on testimony, the drinkers serviced by well 10A-5-W06 would ice over, generally from mid-December until the first of March. Daily average temperatures are at or below freezing from December 7 through February 1 (Intellicast, 2016); cold air accumulates at the well location and air temperature is frequently sub-zero on winter mornings (see Figures 28 and 29).

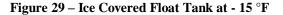




01-12-2013 07:34:52







Cattle require water daily and sub-freezing winter temperatures demand that active measures be taken to remove ice cover. The well location would be visited every other day (Cox Dep. 64:23-65:13); the ice would be broken up with an axe and thrown out (Cox Dep. 66:3-16). To account for this loss, it is estimated that the combined, average thickness of ice and water removed from the two drinkers was four inches and that the well location was visited every other day, mid-December until March, for ice removal purposes. The volumetric loss is determined to have been 6,917 gallons per year.

Case 6:01-cv-00072-MV-WPL Document 3305-8 Filed 08/12/16 Page 4 of 21

A further water loss can be assigned to accident-related spills. The author has experienced seven major accidental spills over the past ten years, resulting in an average loss of approximately 15,000 gallons of water per event. Three spills were associated with the pan float in the regulating tank, two by freeze failure of the pan float and one attributed to an elk decoupling the pan float from the float valve lever. Two additional accident-related spills were associated with windmill component failures that allowed the windmill to pump water unabated for an extended period of time, spilling water out the holding tank overflow outlet. Of these, one spill resulted from a vane spring failure and the other resulted from the failure of the furl cable. Two additional spills resulted from freeze-related longitudinal failure of piping, one being a failure of the well stand pipe and another being a failure of an undrained syphon inserted into the main holding tank. In the case of failure of the well stand pipe, iron bacteria had partially clogged the weep hole and, coupled with sub-zero temperatures, led to failure of the stand pipe.

To account for these types of unforeseen events, it is assumed that an average of 15,000 gallons of water was lost in association with accidental spills at a frequency of 0.7 per year. The resulting historic loss is calculated to have averaged 10,500 gallons per year.

Environmental Losses: Two types of environmental losses of water are of interest, evaporation and infiltration. Evaporation is associated with temperature, humidity, solar radiation and wind, and is offset, in part, by rainfall. Pan evaporation measurement data has been compiled for the region including the Gallup Ranger Station (annual average of 62.46 inches per year) and Laguna (annual average of 63.23 inches per year), both of which appear representative of local conditions (WRCC, 2005). As such, a pan evaporation loss of approximately 63 inches per year appears appropriate for the Zuni River Basin.

The pan evaporation data were collected using "Class A" evaporation pans, most of which were installed above ground allowing heating of the side walls and heat exchange with the pan material. Since these containers and their placement are similar to that associated with the drinkers and troughs at the location of well 10A-5-W06, no adjustment of the measured evaporation rate is required as would otherwise be the case for water impounded in livestock ponds. The pan evaporation rate should be reduced by approximately 14 inches per year to account for historic rainfall at Fence Lake, NM (WRCC, 2010). As such, the net evaporation rate for the location of well 10A-5-W06 is 49 inches per year.

Evaporation-related losses are also a function of the surface area associated with the water delivery system. Evidence of at least six open tanks and drinkers exists in association with the well with a combined surface area of approximately 291 square feet (Table 1). The historic evaporation-related loss is therefore projected to have been 8,904 gallons per year. Although the float tank is partially covered as shown in Figure 30, this heavy steel plate does not impede evaporation from the surface of the water contained therein nor does it inhibit livestock use, see Figure 31. This fact contradicts testimony provided by Tom Cox (Cox Dep. 47:3-11).



Figure 30 – Float Tank with Lid



Figure 31 – Cow Drinking from Float Tank

As previously discussed, there is no evidence that water from well 10A-5-W06 was diverted to a livestock pond. The Soil Conservation Service (SCS) classifies the valley soil as Hickman-Catman complex; the Hickman soil is not suitable for livestock ponds because of seepage (SCS, 1993). As such there is no historic evaporative loss or infiltration loss associated with impounded water at the well location.

<u>Wildlife Losses</u>: Wildlife make significant use of well 10A-5-W06 as documented through more than 100,000 images captured on game cameras during the past five years. Based on site-specific observations, the largest water consumers by frequency and consumption are mule deer and elk (see Figures 32 and 33). When available, mule deer and elk make good use of distributed water associated with rain and snow-melt that collects in plunge pools and tinajas in and around Rincon Hondo Canyon.



Figure 32 – Mule Deer at Well 10A-5-W06 (Note Residual Ice)



Figure 33 – Cow Elk at Well 10A-5-W06

Based on game camera observations, the resident population of mule deer is approximately 15 individual animals sharing a home range that includes the subject well. The visitation frequency averages twice per day, 75% of the days per year, predominantly during spring, summer and fall. The population appears stable and is controlled by local predators including mountain lion, black bear, coyote, bob cat and golden eagle (author's observation).

Mule deer in arid regions of New Mexico are typically found within a 1.6 mile radius of a water source (Innes, 2013). Although these mule deer would share Rincon Hondo Canyon with cattle, there is very little dietary overlap between them (Launchbaugh, Not dated). Mule deer water intake ranges from 1 to 1.5 quarts per 100 pounds live weight in winter to twice that amount in summer (Nichol, 1938). Free water intake is calculated for 15 mule deer at an average live weight of 200 pounds per animal. Using a free water intake rate of 1.0 gallons per day per animal, and an annual well use frequency of 75%, the total water loss by mule deer is projected to be 4,106 gallons per year.

Based on game camera observations, the elk visitation rate averages 20 individual animals per day with the same animals reappearing approximately once every three days. The elk browse over the long distances separating sources of water, those currently being distributed five-miles apart in the near region. Home ranges for elk average between one and 95 square miles (Innes, 2011). The visitation frequency averages once per day, 75% of the days per year. The population appears stable and is dominated by many small groups of bull elk in the summer and larger herds of cow elk in the winter (author's observations). Spatial patterns and the timing of habitat use are important factors in elk and cattle interaction. Although these elk would share Rincon Hondo Canyon with cattle, elk range over a much larger area than cattle and there is not complete dietary overlap between them (Launchbaugh, Not dated).

For the purpose of this analysis, free water intake is estimated to vary between 3 and 10 gallons per day depending on time of year and animal size and status. Using a free water intake rate of 6.5 gallons per day, and an annual well use frequency of 75%, the historic total water loss by elk is projected to be 35,588 gallons per year.

Other wildlife observed and photographed drinking at well 10A-5-W06 include mountain lion, black bear, coyote, bob cat, fox, badger, skunk, jack rabbit, rock squirrel, chipmunk, bat, and a large variety of birds. Stray cattle and horses are less frequently observed. Although antelope and cottontails are also present, they have never been observed drinking water at the well. The combined free water use by these animals is considered to be small by comparison to that of mule deer and elk and is conservatively ignored.

<u>Summary</u>: Consumptive and other losses associated with well 10A-5-W06 are compiled in Table 8 and are conservatively determined to total 415,522 gallons per year, i.e., 1.275 acre-

| Visitation Frequency Wildlife Usage Loss(gal) = | 75% 39,694 |
|--|---------------|
| Days/Year = | 365 |
| Mule Deer Water Intake (gal/day) = | 1 |
| Mule Deer/Day = | 15 |
| Elk Water Intake (gal/day) = | 6.5 |
| Elk/Day = | 20 |
| Wildlife Usage Loss | |
| Total Evaporative Loss (gal) = | 8,904 |
| Surface area of tanks (ft ²) = | 291.48 |
| Net evaporation loss (ft) = | 4.08 |
| Evaporative Losses | |
| Accident Related Loss (gal) = | 10,500 |
| Accidents/Year = | 0.7 |
| Accident Related Loss (gal) = | 15,000 |
| Accident-Related Loss | |
| Ice Loss (gal) = | 6,917 |
| Average thickness of ice (ft) = | 0.33 |
| Surface area of drinkers (ft ²) = | 74.98 |
| Ice Removal Visits (Dec 15-Mar 1) = | 37 |
| Ice Removal Loss | |
| System Loss (gal) = | 52,560 |
| Minutes/Year = | 525,600 |
| System Leakage Rate (gal/min) = | 0.1 |
| Chronic Leakge Loss | |
| Weep Hole Loss (gal) = | 197,103 |
| Minutes/11 months = | 482,400 |
| Pumping Frequency = | 59.3% |
| Weep Hole Leakage Rate (gal/min) = | 0.69 |
| Weep Hole Loss | |
| Total Maintenance Loss (gal) = | 59,054 |
| Cleanings/Season = | 96 |
| Volumes/Cleaning = | 1 |
| Drinker volume (gal) = | 615.14 |
| Infrastructure-Related Losses Rountine Maintenance Loss | |
| | 40,790 |
| Total Consumptive Loss (gal) = | 40,790 |
| Total Water Consumed (gal) = Spilled to Ground (%) = | 815,802 5% |
| | 015 003 |
| Consumptive Loss During Drinking | |
| Total Credited Consumptive Uncertainty (gal) = | C |
| Total Calculated Consumptive Uncertainty (gal) = | 202,080 |
| NMSU Method Cow-Calf Water Consumed (gal) = | 887,334 |
| NRC Method Cow-Calf Water Consumed (gal) = | 685,254 |

Table 8 – Annual Consumptive and Other Losses

feet per year. This is considered to be a lower case determination since conservatism was built into the subcomponents that make up this total calculated loss. Moreover, additional losses, such as consumptive uncertainty, use of water by cowhands and their horses, use of water for concrete repairs, water used to wash down equipment, water lost during annual well maintenance, water lost due to wave action, etc. are not included in the total.

5.7 Total Quantity

The quantity of water directly consumed by cattle at well 10A-5-W06, when added to the consumptive losses and other losses associated with the delivery of that water, represents the total amount of water beneficially used each year for livestock watering. As described in Section 5.5, the maximum historic quantity of water consumed by livestock is calculated to have been 815,802 gallons per year, i.e. 2.504 acre-feet per year. As described in Section 5.6, consumptive and other losses associated with well 10A-5-W06 are determined to total 415,522 gallons per year, i.e., 1.275 acre-feet per year. When combined, a total of 1,231,324 gallons per year represents the amount of water beneficially used for livestock watering. As such, with a reasonable degree of scientific certainty, the maximum amount of groundwater diverted through well 10A-5-W06 for the beneficial purpose of livestock watering was 3.779 acre-feet per annum.

CONCLUSIONS

The elements of a livestock use component of water rights can reasonably be determined from a combination of documentary evidence, field observation and technical analysis. With the

Case 6:01-cv-00072-MV-WPL Document 3305-8 Filed 08/12/16 Page 11 of 21

exception of the amount of water used per annum, the Defendants and the Plaintiffs have arrived at similar conclusions regarding the elements of the livestock use component of water rights for well 10A-5-W06.

I have made a determination of the historic beneficial amount of water used for livestock watering at well 10A-5-W06 based upon accepted methods and published scientific data applicable to the classes of livestock associated with the cow-calf operation in the Rincon Hondo Canyon region. With a reasonable degree of scientific certainty, the maximum amount of groundwater diverted through well 10A-5-W06 for the beneficial purpose of livestock watering was 3.779 acre-feet per annum. The Parties have stipulated that 0.7 acre-feet per annum is the historic beneficial use of water for domestic purposes at well 10A-5-W06 (Attachment A to the Unopposed Joint Motion to Set Pretrial Conference [Doc. 3167-1], Case No. 01 cv 00072 MV/WPL). Therefore, the water rights for Subfile No. ZRB-2-0038 amount to 4.479 acre-feet per annum.

The Plaintiffs have proposed to recognize water rights for Subfile No. ZRB-2-0038 totaling 3.724 acre-feet per annum, 3.024 acre-feet associated with livestock use and 0.7 acre-feet associated with domestic use (Attachment 1 to the Unopposed Joint Motion to Set Pretrial Conference [Doc. 3167-2], Case No. 01 cv 00072 MV/WPL).

In general, Plaintiffs used an oversimplified approach for estimating livestock water use throughout the Zuni Basin. The primary reason for the difference in livestock use amount, Defendants' 3.779 acre-feet per annum versus Plaintiffs' 3.024 acre-feet per annum, is the presumption by the Plaintiffs that a drinking water rate said to be applicable to 800-pound beef cattle in a feedlot is representative of the drinking water rate of a 1,000-pound lactating cow with

calf on rangeland. The 10 gallon per day drinking water rate used by the Plaintiffs was not only misapplied but was based on hearsay. Plaintiffs attempted to compensate for the "innumerable, unknowable factors that might possibly affect livestock water consumption" by simply doubling the presumed drinking water rate to 20 gallons per day. For Subfile No. ZRB-2-0038, this was not enough.

Attachment 6 addresses exhibits derived from this report that may be used at trial.

DATED this 27th day of June, 2016.

/s/ Craig Fredrickson

Craig L. Fredrickson, Defendant 2742 Veranda Rd, NW Albuquerque, NM 87107

LITERATURE CITED

Allison, Christopher D. and Nick Ashcroft. 2011. New Mexico Range Plants. New Mexico State University Cooperative Extension Service Circular 374. Las Cruces, NM.

Anderson, Vern, Breanne Ilse, John Dhuyvetter, Charles Stoltenow, Dale Burr, Tim Schroeder, Tyler Ingebretson. 2011, Winter Management of the Beef Cow Herd. AS1564. NDSU Extension Service, N.D. Agricultural Experiment Station. North Dakota State University.

APHIS. 2010. Mortality of Calves and Cattle on U.S. Beef Cow-calf Operations. U.S. Department of Agriculture, Animal and Plant Health Inspection Service. 2010.

Baker, T. Lindsay. 2005. The 702 Model Windmill: Its Assembly, Installation and Use. American Wind Power Center. Lubbock, TX.

Cattlemen's Beef Board and National Cattlemen's Beef Association. The Stages of Beef Production. 2016.

Cox, Tom W. 2016. Deposition of Tom W. Cox, United State of America, et al. vs. A & R Productions, et al. Case No. 01CV000720MV/WPL. May 18, 2016.

Earleywine, Tom. 2015. The Importance of Water to Calf Growth. Progressive Publishing, 2016.

Eversole, Dan E. 2009. Creep Feeding Beef Calves. Virginia Cooperative Extension, Virginia Polytechnic Institute and State University.

Fence Lake Book Committee. 1987. Fence Lake, New Mexico Area Families & History, 1987.

Gadberry, S. 2002. Extension bulletin MP 391. Part 3: Nutrient Requirement Tables, University of Arkansas.

Holechek, Jerry L, 1988. An Approach for Setting the Stocking Rate. *Rangelands* 10(1), February 1988.

Holechek, Jerry L, 1997. The Effects of Rangeland Water Developments on Livestock Production and Distribution. Proceedings: Symposium on Environmental, Economic, and Legal Issues Related to Rangeland Water Development. November 1997, Arizona State University, Tempe. Pages. 38–62.

Innes, Robin J. 2011. Cervus elaphus. In: Fire Effects Information System, [Online]. U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station, Fire Sciences Laboratory (Producer).

Innes, Robin J. 2013. Odocoileus virginianus. In: Fire Effects Information System, [Online]. U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station, Fire Sciences Laboratory (Producer).

Intellicast. 2016. Historic Averages for Fence Lake, NM. 87315. Retrieved from Intellicast.com.

Jenkins, Karla H. 2014. Young Calves, Summer Heat, and Water Consumption. *UNL BeefWatch*, July 2014. University of Nebraska-Lincoln.

Lalman, David. 2004. E-974. Nutrient Requirements of Beef Cattle. Oklahoma Cooperative Extension Service. Stillwater, OK.

Launchbaugh, Karen. Not dated. Forage Production and Carrying Capacity: Guidelines for Setting a Proper Stocking Rate. Rangeland Ecology and Management, University of Idaho.

Lyons, R.K. and R.V. Machen. 2001. L-5409, Livestock Grazing Distribution: Considerations and Management. Texas AgriLife Extension Service.

Manske, L. L. 1998. Animal Unit Equivalent for Beef Cattle Based on Metabolic Weight. DREC 98-1020. Dickinson Research Extension Center, North Dakota State University.

National Resources Consulting Engineers, Inc. 2005. Zuni River Basin Adjudication Hydrographic Survey Report for Sub Areas 9 and 10. United States of America v. A& R Production, et al. CIV No. 01 0072 BB/WDS-ACE. Prepared under the Direction of the United States Department of the Interior in Cooperation with the State of New Mexico Office of the State Engineer, Santa Fe, New Mexico.

National Research Council (NRC). 2000. *Nutrient Requirements of Beef Cattle*, 7th ed. Washington, D.C.: The National Academies Press.

Nichol, A. A. 1938. Experimental Feeding of Deer. Technical Bulletin No. 75. College of Agriculture, Agricultural Experiment Station, University of Arizona.

NRCS. 1997. *National Range and Pasture Handbook*, 1997. Natural Resources Conservation Service, Grazing Lands Technology Institute, U.S. Department of Agriculture.

NRCS. 2007. Rangeland Productivity and Plant Composition. Tabular Data for Soil Units 25 and 515 from Soil Survey of Cibola Area, New Mexico, Parts of Cibola, McKinley, and Valencia Counties. Soil Conservation Service, U.S. Department of Agriculture.

NRCS. 2009. Estimating Initial Stocking Rates. 2009. Natural Resources Conservation Service, Boise, Idaho, U.S. Department of Agriculture. Technical Note TN Range No. 3.

NRCS, 2010. Water Facility Design Criteria for Cattle. U.S. Department of Agriculture. Design Technical Note SD2006-1.

Parker, D.B., L.J. Perino, B. W. Auvermann, J. M. Sweeten and L. Perino. 2000. Water Use and Conservation at Texas High Plains Beef Cattle Feedyards. ASAE Paper No. 98-2138.

SCS. 1993. Soil Survey of Cibola Area, New Mexico, Parts of Cibola, McKinley, and Valencia Counties. Soil Conservation Service, U.S. Department of Agriculture.

Sweeten, John M, O'Neal, Henry P. and Withers, Richard F. 1990. Feedyard Energy Guidelines. Texas A&M University, Agricultural Extension Service, College Station, TX.

Vickers, Amy. 2001. Water Use and Conservation. Amherst, MA: WaterPlow Press.

Volesky, J.D., W.H. Schacht, and S.S. Waller. 1996. G80-504 Proper Livestock Grazing Distribution on Rangeland (Revised February 1996). Historical Materials from University of Nebraska-Lincoln Extension.

Ward, Marcy A., N. K. Ashcroft, S.T. Smallidge, and E.J. Scholljegerdes. 2015. Estimating Water Intake for Range Beef Cattle [guide B-231]. Cooperative Extension Service, College of Agricultural, Consumer and Environmental Sciences, New Mexico State University.

Weather Warehouse. 2016. Past Monthly Weather Data for Fence Lake, NM. 1983-2000. Weather Source, LLC.

Western Regional Climate Center. 2005. Average Pan Evaporation Data by State. Historical Climate Information. Western Regional Climate Center, Reno, NV.

Western Regional Climate Center. 2006. Gallup Muni AP New Mexico – Average Wind Speed Table. Western Regional Climate Center, Reno, NV.

Western Regional Climate Center. 2010. Fence Lake, New Mexico Average Total Precipitation. Western Regional Climate Center, Reno, NV.

Western Regional Climate Center. 2016. Gallup Muni AP New Mexico – Wind Frequency Table. Western Regional Climate Center, Reno, NV.

Wiedmeier, R.D., A.J. Young and P.R. Schmidt. 2006. Watch the Drinking Water Quality of Calves Reared in Individual Hutches. AG/Dairy/2006-01pr.

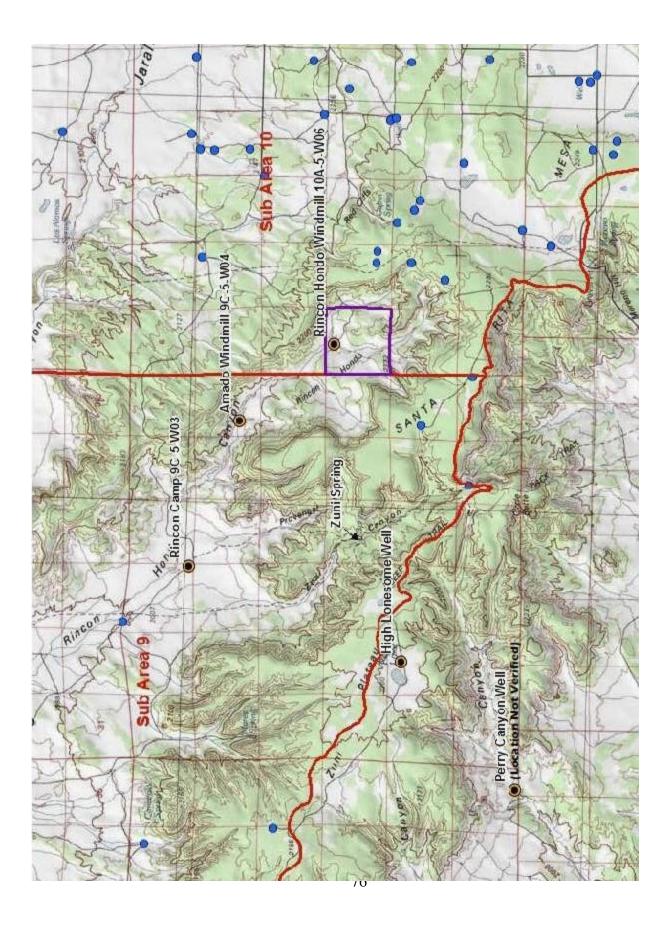
Wilson, Brian C, P.E. and Anthony A. Lucero. 1997. Water Use by Categories in New Mexico Counties and River Basins, and Irrigated Acreage in 1995. Technical Report 49, New Mexico State Engineers Office.

Winchester, C.F., and M.J. Morris. 1956. Water Intake Rates of Cattle. *Journal of Animal Science*, 15, 722–740.

Case 6:01-cv-00072-MV-WPL Document 3305-8 Filed 08/12/16 Page 16 of 21

ATTACHMENT 1

Rincon Hondo Canyon Regional Map

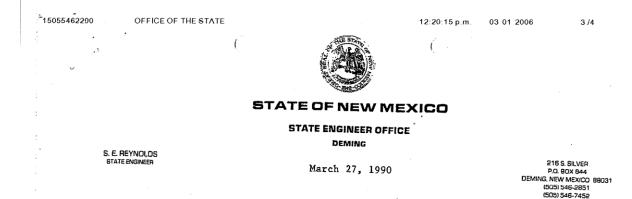


Case 6:01-cv-00072-MV-WPL Document 3305-8 Filed 08/12/16 Page 18 of 21

ATTACHMENT 2

Declaration of Ownership of Underground Water Right

Case 6:01-cv-00072-MV-WPL Document 3305-8 Filed 08/12/16 Page 19 of 21



FILES: 02-189 through 02-192 / 33-3 through 33-9

Tommy Cox P.O. Box 368 Quemado, New Mexico 87829

Dear Mr. Cox:

Enclosed are your copies of Declaration of Ownership of Underground Water Right, which have been accepted for filing and given numbers 02-189 through 02-192 and 33-3 through 33-9. Please refer to these numbers in correspondence concerning these Declarations.

Under New Mexico Law a declaration is only a statement of declarant's claim. Acceptance for filing does not constitute approval or rejection of the claim.

Sincerely 1)

R. Q. Rogers Supervisor, District 3

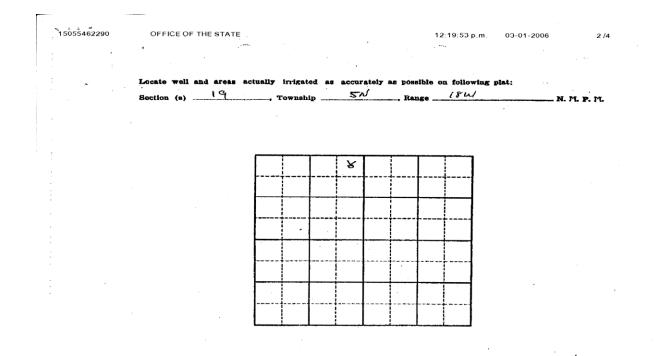
RQR:jp Encls: 11 Declarations cc: State Engineer

en lana

Case 6:01-cv-00072-MV-WPL Document 3305-8 Filed 08/12/16 Page 20 of 21

| 1505546്2290 ന | |
|---|--|
| | Revised December 15 |
| | TAN THE IMPORTANT - READ INSTRUCTIONS ON BACK BEFORE FILLING OUT THIS FORM. |
| 42 | Declaration of Owner of Underground Water Rig |
| | CIBDLA COUNTY BASIN NAME |
| | Declaration No. 33-8 Date received March 14, 1990 |
| | STATEMENT |
| | 1. Name of Declarant lommy Cox |
| | Comment Cal |
| | 2. Source of water supply Shallow water |
| | 3. Describe well location under one of the following subheadings: Runch Hondo a. NE 16 NE 16 NI 1000 100 100 100 100 100 100 100 100 1 |
| | Cibila County. Rec. 1 Nwp. 570 Rge. 18 W N.M.P.J |
| | b. Tract No of Map No of the c. X = feet, Y = feet N.M. Coordinate System |
| | c. X = feet, Y = feet, N. M. Coordinate System G |
| | |
| | ueptin |
| | outside diameter of casing <u>6</u> inches; original capacity <u>18+</u> gal. per min.; present capacity <u>18+</u> gal. per min.; pumping lift <u>470</u> feet; static water level <u>470</u> feet (above) (pelow) land surface; |
| | |
| | 1 |
| | make, type, horsepower, otc., of power plant |
| | Fractitional or percentage interest claimed in well Full 5. Quantity of water appropriated and beneficially used not calculated, see, it s. halow |
| | |
| | tor |
| | 6. Acreage actually irrigated acres, located and described as follows (describe only lands actually irrigat |
| | Acres Subdivision Sec. Twp. Range Irrigated Owner |
| | |
| | |
| | |
| 1SO HE O | E and |
| OF 1 | (Marshand and and and and and and and and and |
| TION | (Note: location of well and acreage actually irrigated must be shown on plot on reverse side) 7. Water was first applied to beneficial use7955 |
| CLEC OF | has been used fully and continuously on all of the above described lands or for the above described purposes exce |
| CERT 00 F | as follows: |
| | |
| TATEN | |
| Y A STATEN APPROVAL | |
| LED - Ly a statement of declarantys clann - Ly a statement of declarantys clann | |
| FILED ON IS T, LY A STATEN VSTITUTE, APPROVAL | 8. Additional statements or explanations this well is cauped with a windmill |
| FILED Ration 15 ° LY A STATEN T CONSTITUTE APPROVAL | and an auxillary pump jack and does not pump the full |
| FILED ECIARATION IS "LY A STATEN S NOT CONSTITUTE APPROVAL | 8. Additional statements or explanations this well is equiped with a windmill and an auxillary pump jack and does not pump the full capasity the year-round, however, should we have the need for full production in the fature, we resource that right |
| FILED M A DECI AGATION (S ^ LY A STATEN DOES NOT CONSTITUTE APPROVAL | and an auxillary pump jack and does not pump the full |
| FILED 1.4M A DECLARATION IS FLY A STATCH 1.LING DOES NOT CONSTITUTE APPROVAL | and an auxillary pump jack and does not pump the full capasity the year-round, however, should we have the need for full preduction in the fature, we resource that right (Example: to ture irrigation or domestic use) |
| FILEO DXIOO LAM A DECHARATION IS "LUVA STATCH SOR FILING DOES NOT CORSTITUTE APPROVAL | and an auxillary pump jack and does not pump the full capasity the year-round, however, should we have the need for full production in the fature, we resource that right. (Example : for tore irrigation or domestic use) |
| FILED EW MICKIOO LAW A DECIARATION IS "LEV A STATCH NGE FOR FILING DOES NOT CONSTITUTE APPROVAL | and an auxillary pump jack and does not pump the full capasity the year-round, however, should we have the need for full preduction in the fature, we reserve that right. (Example : but one irrigation or domestic use) |
| FILED Er New Mexico Law a deci aration is ". Ly a state Eptance for filling does not constitute approval | and an auxillary pump jack and does not pump the full capasity the year-round, however, should we have the need for full preduction in the fature, we resource that right (Example : future irrigation or domestic use) 1 |
| FILED UNDER NEW MEXICO LAW A DECIARATION IS "- LYA STATCH ACCEPTANCE FOR FILING DOES NOT CORSTITUTE APPROVAL | and an auxillary pump jack and does not pump the full capasity the year-round, however, should we have the need for full preduction in the fature, we resource that right (Example : future irrigation or domestic use) |
| FILED UNDER NEW MEXICO LAW A DECI ARATION IS "- LY A STATCH Acceptance for Filmo does not constitute Approval | and an auxillary pump jack and does not pump the full capasity the year-round, however, should we have the need for full preduction in the fature, we resource that right (Example : future irrigation or domestic use) 1 |
| FILEO Under New Mexico Lay a deci aration is et ly a state Acceptance for filing dees not constitute Apricval | and an auxillary pump jack and does not pump the full capasity the year-round, however, should we have the need for full preduction in the fature, we reserve that right (Example : to tore irrigation or domestic use) |

Case 6:01-cv-00072-MV-WPL Document 3305-8 Filed 08/12/16 Page 21 of 21



INSTRUCTIONS

Declaration shall be executed (preferably typewritten) in triplicate and must be accompanied by a \$1.00 filing fee. Each of triplicate copies must be properly signed and attested.

A separate declaration must be filed for each well in use.

All blanks shall be filled out fully. Required information which cannot be sworn to by declarant shall be supplied by affidavit of person or persons familiar with the facts and shall be submitted herewith.

Secs. 1-3. Complete all blanks.

Sec. 4. Fill out all blanks applicable as fully as possible.

Sec. 5. Irrigation use shall be stated in acre fect of water per acre per year applied on the land. If used for domestic, municipal, or other purposes, state total quantity in acre feet used annually.

Sec. 6. Describe only the acreage actually irrigated. When necessary to clearly define irrigated acreages, describe to nearest 2½ acre subdivision. If located on unsurveyed lands, describe by legal supdivision "as projected" from the nearest government survey corners, or describe by metes and bounds and the survey to some permanent, easily-located natural object.

Sec. 7. Explain and give dates as nearly as possible of any years when all or part of acreage claimed was not irrigated.

Sec. 8. If well irrigates or supplies supplemental water to any other land than that described above, or if land is also irrigated from any other source, explain under this section. Give any other data necessary to fully describe water right.

If additional space is necessary, use a separate sheet or sheets and attach securely hereto.