Basin 128 NOI 51737 Churchill Co. Well Log # 91731

Lahontan GeoScience, Inc.

Well Abandonment Log

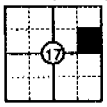
Project:	Water Well Closures in Dixie Valley
Project No.:	NASF: 03140
Sheet	1 of 1
Contract No:	Ile 49162
Boring No.:	054A
Location (TRS):	T. 21N, R. 35E, Sec. 17, NE¼, SE¼
Location (Lat/Lon):	39° 41.359' N, 118° 03.737' W
Elevation:	3396 ft
Permit No.:	none
Well Log:	none
Measured Depth:	249 ft
Perf. Date:	11/12/03
Borehole Dia.:	unknown
Casing Size:	6", Steel
Measured Casing Size:	6", Steel
Plug Date:	11/20/03
Borehole Depth:	unknown
Casing Depth:	unknown
Static Water Level:	Flowing
Supervised by:	J. R. Humphrey
Perforations at time of construction:	unknown
Additional Perforations:	30 - 233 ft
Driller:	W. E. Knoblock

AB2213

Depth (feet)	Lithology *Recorded at time of drilling	Detail	Well Construction *Recorded at time of drilling	Abandonment
0	No well log available			Well flowing at surface
				Presence of surface seal interpreted from resistance To mills knife.
50				plug date: 11/04/03 vol. of cement = 0.3 cu. yds nominal density = 18.6 lbs./gal.
100				
				Additional perforations: 30 - 233 ft 4 perfs per foot
150				
200				Original perforations from 200 - 249 ft interpreted from lack of resistance to mills knife
				Measured Depth = 249 ft

RECEIVED
DEC 24 2003
STATE ENGINEER'S OFFICE

T. 21N, R. 35E,
Sec. 17, NE¼, SE¼



immediately to place 2-inch diameter poly pipe in the hole before it collapsed. The poly pipe hung up on top of the broken casing at 30 feet. Because the flow had increased significantly and was jeopardizing access to the wellhead, 0.4 cubic yards of cement was hand mixed and placed in the hole to try to form a temporary plug. Much of this grout was ejected from the well due to the high flow rate.

The well was abandoned on November 20, 2003, by pumping neat cement grout through the tremie pipe to the land surface. A total of 6.9 cubic yards of grout weighing about 18 lbs/gal was placed in the well. The amount of grout used was 1100 percent of the cylindrical well volume. Subsequent to grouting the well the casing was cut down to land surface.

Well 53A

Well 53A was located on Dempsey Lane in SE¼, NE¼, section 17, T21N, R35E. A search of the records archived at the Carson City office of DWR failed to identify a log that could be confidently associated with this well. This well was probably used for domestic water supply. A small pump house was built over a concrete pad next to the well. This structure was pulled off the pad and set aside. The well was constructed using a 4-inch diameter steel casing. The depth of the well was measured at 81 feet bgs. At the time of abandonment the well was flowing at about 5 gpm at the surface.

No obstructions, debris, or foreign materials were found in this well. An attempt to pull the casing resulted in a separation at 4 feet bgs. The perforation tool could not be advanced past the break.

The well was abandoned on November 4, 2003, by placing 81 feet of 1.5-inch diameter poly pipe to the bottom of the hole and pumping neat cement grout to the land surface. Approximately 0.3 cubic yards of grout weighing about 18 pounds per gallon (lbs/gal) were placed in the well. The amount of grout used was 115 percent of the cylindrical well volume.

Well 54A

Well 54A was located on Dempsey Lane in SE¼, NE¼, section 17, T21N, R35E. A search of the records archived at the Carson City office of DWR failed to identify a log that could be confidently associated with this well. This well was probably used for pasture irrigation. The 6-inch diameter steel casing was measured to a depth of 249 feet bgs. At the time of abandonment the well was flowing at about 10 gpm at the surface.

No obstructions, debris, or foreign materials were found in this well. An attempt to pull the casing failed. Casing perforation was completed on November 12, 2003. Using the mills knife, 4 perforations per foot were cut into the casing from 233 feet to 30 feet bgs. The presence of a screened interval from 200 feet to 249 feet bgs was interpreted from the lack of resistance to the mills knife. The presence of

a surface seal from 0 to 30 feet bgs was interpreted from refusal of the knife to penetrate the casing.

The well was abandoned on November 20, 2003, by placing 249 feet of 2-inch diameter poly pipe to the bottom of the hole and pumping neat cement grout to the land surface. Approximately 6 cubic yards of grout weighing about 18 lbs/gal were placed in the well. The amount of grout used was 331 percent of the cylindrical well volume. Subsequent to grouting the well the casing was cut down to land surface.

Well 80A

Well 80A was located in NW¼, SE¼, section 18, T21N, R35E. A search of the records archived at the Carson City office of DWR failed to identify a log that could be confidently associated with this well. This well was used for crop irrigation. The 10-inch diameter steel casing was measured to a depth of 320 feet bgs. At the time of abandonment the static water level was at ground surface although it was clear that the well had been flowing at one time.

An attempt to pull the casing failed. The upper 3 feet of casing broke in an area of heavy corrosion while preparing to pull. Perforation of the casing was completed on October 28, 2003. The presence of a screened interval from 172 to 315 feet was interpreted from the lack of resistance to the mills knife. Additional perforations (5 per foot) were cut into the casing from 10 to168 feet.

Well abandonment took place on October 30, 2003, by placing 311 feet of 2-inch diameter steel pipe in the well and pumping neat cement grout to the land surface. Approximately 8 cubic yards of grout weighing about 18 lbs/gal were placed in the well. The amount of grout used was 124 percent of the cylindrical well volume.

Well 81A

Well 81A was located in SW¼, NW¼, section 18, T21N, R35E. A search of the records archived at the Carson City office of DWR failed to identify a log that could be confidently associated with this well. This well was being used to fill a stock pond. The 10-inch diameter steel casing was measured to a depth of 203 feet bgs. At the time of abandonment the well was flowing at a rate of about 10 gpm.

No obstructions, debris, or foreign materials were found in this well. An attempt to pull the casing failed. Perforation of the casing was performed on October 23, 2003. Using the mills knife 5 perforations per foot were cut into the casing from 10 to 193 feet.

The well was abandoned on October 30, 2003, by placing 185 feet of 2-inch diameter steel pipe in the well and pumping neat cement grout to the land surface. Approximately 6 cubic yards of grout weighing about 18 lbs/gal were