

STATE ENGINEER OFFICE

WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well NASA White Sands Test Facility Owner's Well No. BLM-39
 Street or Post Office Address P.O. Box 20
 City and State Las Cruces, NM 88004

Well was drilled under permit No. No permit - monitoring well and is located in the:

- a. SW ¼ NW ¼ SE ¼ of Section 33 Township 20S Range 3E N.M.P.M.
- b. Tract No. _____ of Map No. _____ of the _____
- c. Lot No. _____ of Block No. _____ of the _____
- d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ zone in the _____ Grant.

(B) Drilling Contractor Stewart Brothers Drilling Company License No. WD 331

Address P.O. Box 2067, 306 Airport Rd., Milan, NM 87021

Drilling Began 03/06/99 Completed 06/18/99 Type tools Rotary Size of hole 12 ¼ in.

Elevation of land surface or _____ at well is Approx. 4630 ft. Total depth of well 596 ft.

Completion well is shallow artesian. Depth to water upon completion of well Approx. 360 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
360	370	10	Alluvium (Santa Fe Group)	Unknown
370	490	120	Rhyolite Tuff	Unknown
490	540	50	Rhyodacite	Unknown
540	596	56	Altered rhyolite and rhyolite	Unknown

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
14			0	118	118	None	Surface casing	
4			0	595	595	Steel	Outer casing (see Section 7)	
1.5			0	585	585	None	Inner casing	

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				
0	118	17 ½"		71	Pressure grout from inside of surface casing
0	200	12 ¼"		171	Tremie pipe cement down annulus above completion materials

Section 5. PLUGGING RECORD

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WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well NASA White Sands Test Facility Owner's Well No. BLM-39
 Street or Post Office Address P.O. Box 20
 City and State Las Cruces, NM 88004

Well was drilled under permit No. No permit - monitoring well and is located in the:

- a. SW $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 33 Township 20S Range 3E N.M.P.M.
 b. Tract No. _____ of Map No. _____ of the _____
 c. Lot No. _____ of Block No. _____ of the _____
 d. X = _____ feet, Y = _____ feet, N.M. Coordinate System _____ zone in
 the _____ Grant.

(B) Drilling Contractor Stewart Brothers Drilling Company License No. WD 331

Address P.O. Box 2067, 306 Airport Rd., Milan, NM 87021

Drilling Began 03/06/99 Completed 06/18/99 Type tools Rotary Size of hole 12 $\frac{1}{4}$ in.

Elevation of land surface or _____ at well is Approx. 4630 ft. Total depth of well 596 ft.

Completion well is shallow artesian. Depth to water upon completion of well Approx. 360 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
360	370	10	Alluvium (Santa Fe Group)	Unknown
370	490	120	Rhyolite Tuff	Unknown
490	540	50	Rhyodacite	Unknown
540	596	56	Altered rhyolite and rhyolite	Unknown

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
14			0	118	118	None	Surface casing	
4			0	595	595	Steel	Outer casing (see Section 7)	
1.5			0	585	585	None	Inner casing	

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				
0	118	17 $\frac{1}{2}$ "		71	Pressure grout from inside of surface casing
0	200	12 $\frac{1}{4}$ "		171	Tremie pipe cement down annulus above completion materials

Section 5. PLUGGING RECORD

