

MONITOR WELL PRE-SPUD PROPOSAL

- 1) WELL NAME/NUMBER: WB-14
- 2) PROPOSED LOCATION: (a) General (on or off-site) Off-site  
(attach map Site Area BLM Land)  
(b) Sect 10 Twnshp 21S Rng 3E SW ¼ SW ¼ SW ¼ SE ¼
- 3) WELL PARAMETERS:  
(a) Est. total depth 540 (ft) (b) Est. ground elevation @4712 ft  
(c) Anticipated stratigraphy:  
Alluvium (Santa Fe Group) from 0 ' to 290 ' (depth)  
Tuff (Cueva?) from 290 ' to TD ' (depth)  
(d) Anticipated water bearing horizon(s):  
Tuff at 490 ' (depth)  
at \_\_\_\_\_ ' (depth)  
(e) Anticipated static water level 410(?) ' (depth)
- 4) WELL PURPOSE/JUSTIFICATION (attach maps and table if needed):  
To obtain vertical groundwater quality data using the Westbay system southwest of  
the 100 Area.
- 5) PROPOSED DRILLING PARAMETERS:  
(a) Drilling method(s): (air/foam/mud rotary/auger/etc.)  
Mud Rotary from 0 ' to 450 ' (depth)  
Air Foam Rotary from 450 ' to TD ' (depth)

Air-foam method: "Quik-Foam" surfactant/water mixture used in conjunction with filtered compress air.

Mud-rotary method: Bentonite mud/water mixture.

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- (b) Lithology sampling - collect sample every:  
5' intervals Method Grab from 0 ' to TD ' (depth)  
Core type 6" Dennison from \_\_\_\_\_ ' to \_\_\_\_\_ ' (depth)  
2" Christiansen from \_\_\_\_\_ ' to \_\_\_\_\_ ' (depth)
- (c) Anticipated drilling additive(s): E-Z mud (if needed)

7) PROPOSED WELL COMPLETION DESIGN/MATERIALS

(a) Casing:	<u>Material</u>	<u>Diameter</u>	<u>From</u>	<u>To</u>	<u>Comments</u>
Temporary Surface	_____	<u>5"</u>	<u>0</u>	<u>≈ 450'</u>	
Completion Pipe	<u>PVC-Sch 80*</u>	<u>2"</u>	<u>0</u>	<u>T.D.</u>	<u>*</u>

Standard material: Blank riser, silt trap, locking cap

N/A Data not available at this time

\* Open borehole completion using Westbay couples, pumping ports, monitoring ports, and packers

- (b) Packers placed in open borehole (no filter pack required).

8) PROPOSED WELL DEVELOPMENT

- (a) Air-lift fluids from hole to remove surfactants prior to well completion.

9) WELL AUTHORIZATION

- (a) Proposed by Geoscience Consultants, Ltd.

- (b) Authorized William E. Waldrip NASA W E Waldrip  
(name) (representing) (signature)

# NASA-WSTF WELL LOCATIONS

