

MONITOR WELL PRE-SPUD PROPOSAL

- 1) WELL NAME/NUMBER: ST-5
- 2) PROPOSED LOCATION: (a) General (on or off-site) Off-site
(attach map) Site Area State Land Section
(b) Sect 32 Twnshp 20S Rng 3E SE ¼ SE ¼ SW ¼ NW ¼
- 3) WELL PARAMETERS:
(a) Est. total depth 500 (ft) (b) Est. ground elevation @4472 ft
(c) Anticipated stratigraphy:
Alluvium (Santa Fe Group) from 0 ' to TD ' (depth)
 from ' to ' (depth)
(d) Anticipated water bearing horizon(s):
Alluvium (Santa Fe Group) at 475 ' (depth)
 at ' (depth)
(e) Anticipated static water level 450 ' (depth)
- 4) WELL PURPOSE/JUSTIFICATION (attach maps and table if needed):
To determine groundwater quality in the shallow alluvial aquifer north of existing
monitor wells located west of the Western Boundary Fault (WBF) zone.
- 5) PROPOSED DRILLING PARAMETERS:
(a) Drilling method(s): (air/foam/mud rotary/auger/etc.)
Mud Rotary (for surface casing) from 0 ' to 100 ' (max)
Air-foam Rotary from 100 ' 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:	Material	Diameter	From	To	Comments
	Temporary	_____	_____	_____	_____	
	Surface	_____	<u>10"</u>	<u>0</u>	<u>100' max</u>	
	Screen (10')	<u>Stainless ++</u>	<u>4"</u>	<u>To be determined</u>	<u>0.02"</u>	
				<u>from Geophysical</u>		
				<u>logs</u>		
	Completion Pipe	<u>stainless +</u>	<u>4"</u>	<u>0</u>	<u>TD</u>	<u>*</u>

Standard material: Blank riser, silt trap, locking cap

N/A Data not available at this time

+ Type 304, Schedule 5 stainless steel

Type 304, Schedule 10 stainless steel (used below 400')

++ Regular strength screen, extra strength screen used below 450 feet

(b) Filter pack: Standard 8/20 and 16/40 sand and bentonite plug(s), grout to surface.

8) PROPOSED WELL DEVELOPMENT

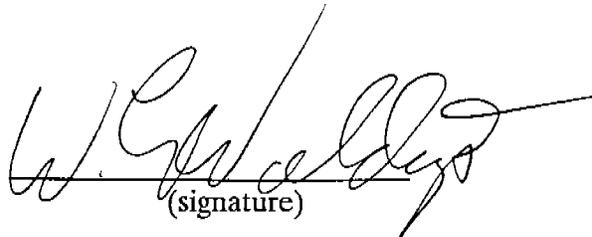
(a) Surge and bail with surge block and bailer.

(b) Pump with submersible pump until parameters stabilize.

9) WELL AUTHORIZATION

(a) Proposed by Geoscience Consultants, Ltd.

(b) Authorized William E. Waldrip NASA
(name) (representing)


(signature)

NASA-WSTF WELL LOCATIONS

