

Pat PM
Peter R
Ray RLS

MONITOR WELL PRE-SPUD PROPOSAL

1) WELL NAME/NUMBER: 700-B

2) PROPOSED LOCATION: (a) General (on or off-site) On-site
(attach map Site Area 700-Area)

(b) Sect 26 Twnshp 20S Rng 3E NW ¼ NW ¼ NW ¼ SW ¼

3) WELL PARAMETERS:

(a) Est. total depth 400 (ft) (b) Est. ground elevation 4808 ft

(c) Anticipated stratigraphy:
Alluvium (Santa Fe Group) from 0 ' to 220 ' (depth)
Andesite (Orejon) from 220 ' to TD ' (depth)

(d) Anticipated water bearing horizon(s):
Andesite (Orejon) at 300 ' (depth)
(may not observe any water while drilling)

(e) Anticipated static water level 210 ' (depth)

4) WELL PURPOSE/JUSTIFICATION (attach maps and table if needed):

To determine groundwater quality down-gradient from the 700 area landfill.

5) PROPOSED DRILLING PARAMETERS:

(a) Drilling method(s): (air/foam/mud rotary/auger/etc.)
Mud Rotary from 0 ' to 100'(max)
Air-Foam Rotary from 100 ' to TD '

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

Mud-rotary method: Bentonite mud/water mixture.

WELL NAME/NUMBER: 700-B

- (b) Lithology sampling - collect sample every:
5' intervals Method Grab from 0 ' to TD ' (depth)
Core type 6" Dennison from _____ ' to None ' (depth)
2" Christiansen from _____ ' to None ' (depth)
- (c) Anticipated drilling additive(s): E-Z mud

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>10"</u> | <u>0</u> | <u>100' max</u> | |
| | Screen (10') | <u>stainless ++</u> | <u>4"</u> | <u>determine from geophysical 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

* for deep completions (450 feet or more)

** for shallow completions

+ Type 304, Schedule 5 stainless steel
Type 304, Schedule 10 stainless steel

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

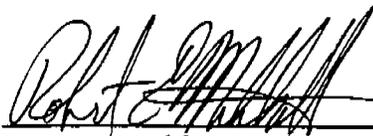
- (b) Filter pack: Standard 8/20 and 16/40 sand and bentonite plug(s), grout to surface.

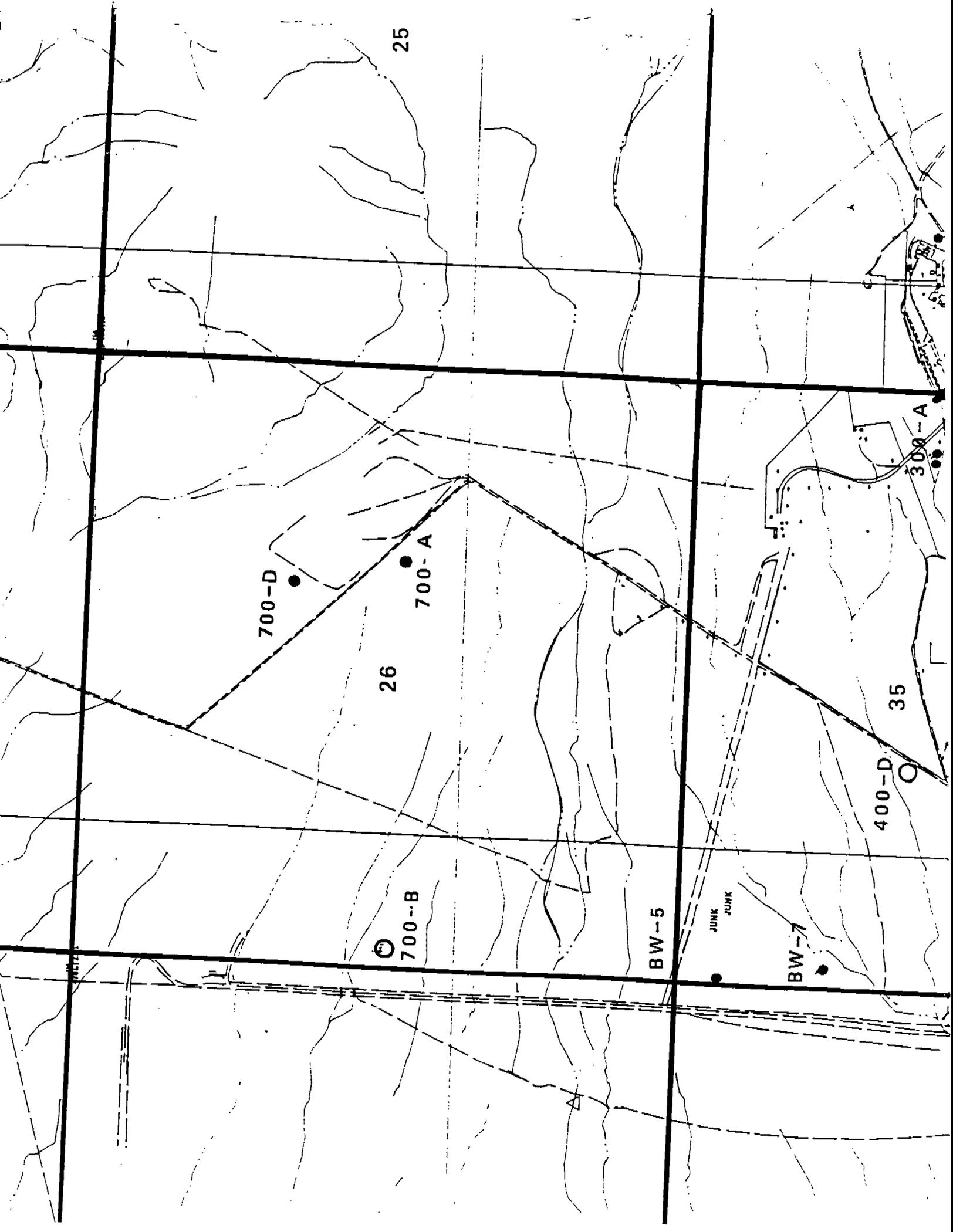
8) **PROPOSED WELL DEVELOPMENT**

- (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 Robert Mitchell NASA 
(name) (representing) (signature)



25

700-D

700-A

26

35

300-A

400-D

700-B

BW-5

JUNK
JUNK

BW-7

WATER