

Ray RLS  
Pat PIM  
Peter [Signature]  
Return to RLS

### MONITOR WELL PRE-SPUD PROPOSAL

- 1) WELL NAME/NUMBER: WB-2
  
- 2) PROPOSED LOCATION: (a) General (on or off-site) On-Site  
(attach map Site Area 100  
(b) Sect 11 Twnshp 21S Rng 3E SE ¼ SW ¼ NE ¼ NE ¼
  
- 3) WELL PARAMETERS:
  - (a) Est. total depth 400 (ft) (b) Est. ground elevation 4900 ft
  - (c) Anticipated stratigraphy:  
Alluvium (Santa Fe Group) from 0 ' to 145 ' (depth)  
Panther Seep Formation from 145 ' to T.D. ' (depth)
  - (d) Anticipated water bearing horizon(s):  
Panther Seep Formation (Limestone) at 180 ' (depth)  
at \_\_\_\_\_ ' (depth)
  - (e) Anticipated static water level 215 ' (depth)
  
- 4) WELL PURPOSE/JUSTIFICATION (attach maps and table if needed):  
To determine vertical distribution of groundwater contamination and  
vertical aquifer properties east of the 100 Area.
  
- 5) PROPOSED DRILLING PARAMETERS:
  - (a) Drilling method(s): (air/foam/mud rotary/auger/etc.)  
Mud-Rotary w/7 7/8" Tricone Bit from 0 ' to 150 ' (depth)  
Air-Foam Rotary w/3 7/8" Air Hammer Bit from 150 ' to T.D. ' (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 T.D. ' (depth)  
Core type 6" Dennison from \_\_\_\_\_ ' to \_\_\_\_\_ ' (depth)  
2" Christiansen from \_\_\_\_\_ ' to \_\_\_\_\_ ' (depth)
- (c) Anticipated drilling additive(s): Quik-Foam & EZ-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>carbon steel</u>	<u>5"</u>	<u>0</u>	<u>150'</u>	
Completion Pipe	<u>PVC-Sch 80***</u>	<u>2"</u>	<u>0</u>	<u>TD.</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

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

+ Type 304, Schedule 5 stainless steel

Type 304, Schedule 10 stainless steel

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

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

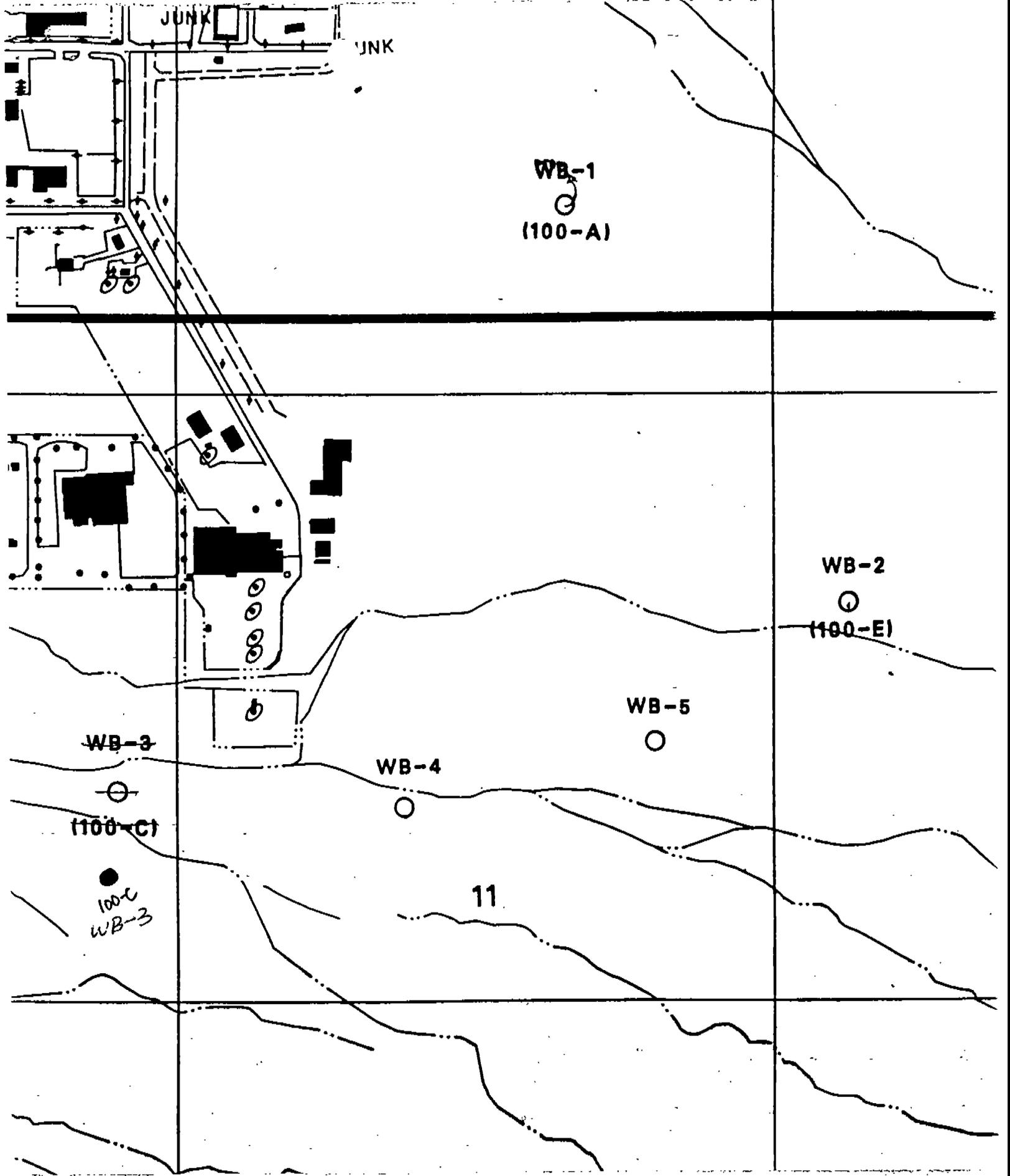
8) PROPOSED WELL DEVELOPMENT

- (a) Purge all fluids from hole prior to well completion.

9) WELL AUTHORIZATION

- (a) Proposed by Geoscience Consultants, Ltd.

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



JUNK

WB-1  
○  
(100-A)

WB-2  
○  
(100-E)

WB-5  
○

WB-4  
○

WB-3  
⊖  
(100-C)

100-C  
WB-3  
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