

MONITOR WELL PRE-SPUD PROPOSAL

OK
DICKI ✓
DARD ✓
RAY RLS
LORIAN P. P. P.

1) WELL NAME/NUMBER: BLM-15

2) PROPOSED LOCATION: (a) General (on or off-site) Off-Site
(attach map) Site Area BLM land

(b) Sect 34 Twnshp 20S Rng 3E NW $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$

3) WELL PARAMETERS:

(a) Est. total depth 275 (ft) (b) Est. ground elevation 4690 ft

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

(d) Anticipated water bearing horizon(s):
Andesite (Orejon) at 240 ' (depth)
_____ at _____ ' (depth)

(e) Anticipated static water level 240 ' (depth)

4) WELL PURPOSE/JUSTIFICATION (attach maps and table if needed):
Determine contaminant concentration in bedrock aquifer located
approximately 0.5 miles west of facility boundary (1 mile west
of 400 Area).

5) PROPOSED DRILLING PARAMETERS:

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

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

Mud-rotary method: Bentonite mud/water mixture.

4690 - 6L
4870 - Seismic
220 11/13/89

- (b) Lithology sampling - collect sample every:
5' intervals Method Grab from 0' to TD (depth)
 Core type 2" Christiansen from 250' to 260' (depth)
2" Christiansen from ' to ' (depth)
2" Christiansen from ' to ' (depth)
- (c) Drilling rig type: Franks rotary rig for surface casing, BE rotary rig to TD
- (d) Anticipated drilling additive(s): None
 Water source NASA Quality checked by GC (method)
- (e) Decontamination/Quality Assurance:
 Clean equipment by steam (method) prior to every well
 Clean tools by steam (method) prior to every well
 Other QA procedures Air filtering/monitoring, periodic steam cleaning of tools/sampling equipment when necessary
- (f) Drilling company: Larion Drilling
 address: P.O. Box 925, Las Cruces, New Mexico 88047
 Company representative: Larry Johnson Phone 505-526-8672

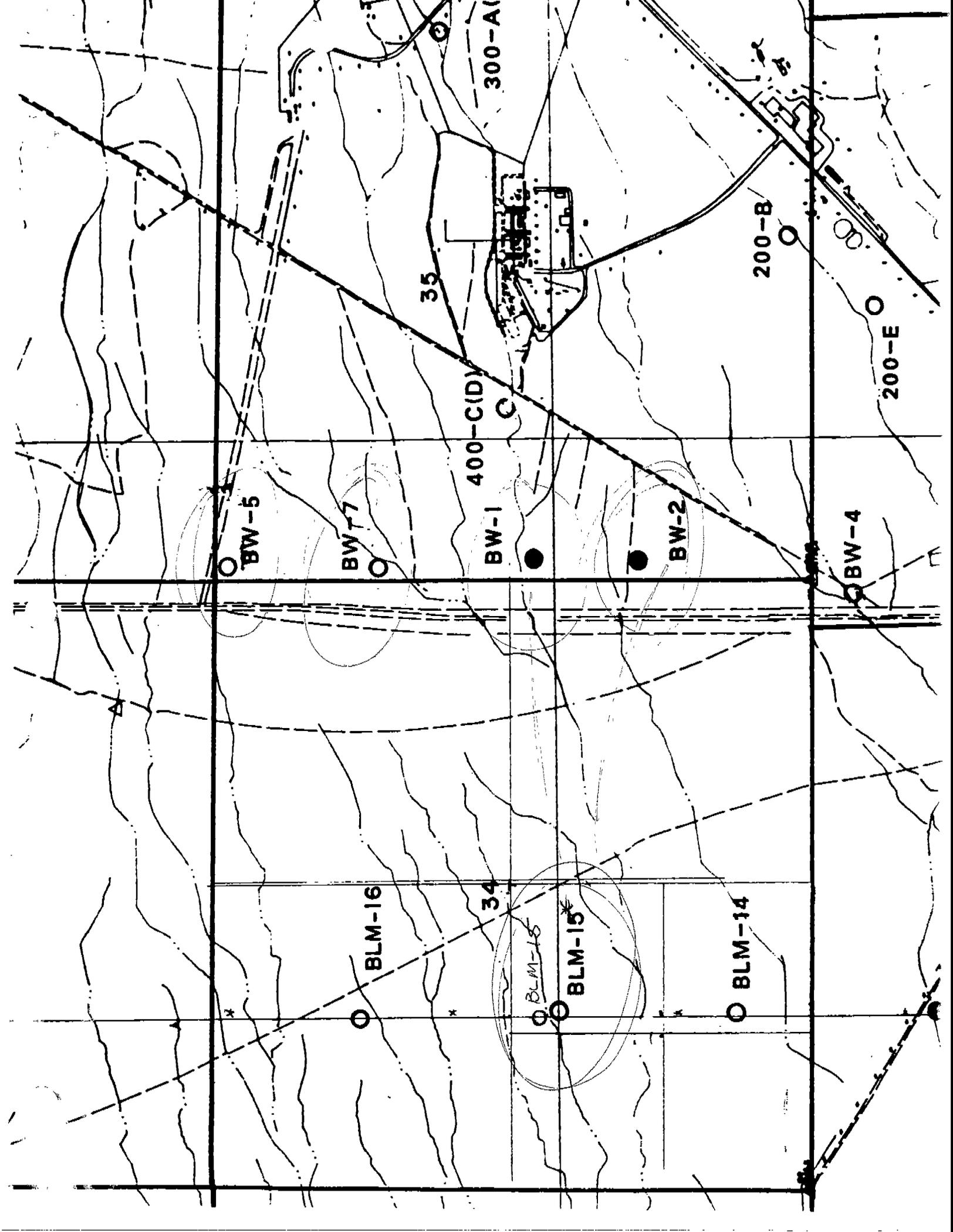
6) PROPOSED BOREHOLE GEOPHYSICS

- (a) Survey type: GR - Neutron from 0' to TD (depth)
 Survey type: GR-Den-Res-Cal from 0' to TD (depth)
 Survey type: 16"-40" E-Log from W.L. to TD (depth)
- (b) Geophysical company: Southwest Survey
 address: 4200 Skyline Drive, Farmington, NM 87401
 Company representative: Don Pearson Phone 505-325-8531

7) PROPOSED WELL COMPLETION DESIGN/MATERIALS

(a) Casing:	Material	Diameter	From	To	Comments
Temporary					
Surface	<u>steel</u>	<u>8"</u>	<u>0</u>	<u>100'</u>	
Blank (riser)	<u>stainless +</u>	<u>4"</u>	<u>0</u>	<u>+3'</u>	
Screen (10')	<u>stainless ++</u>	<u>4"</u>	<u>NA</u>	<u>NA</u>	<u>0.02"</u>
Completion Pipe	<u>stainless +</u>	<u>4"</u>	<u>220</u>	<u>TD</u>	
	<u>PVC-Sch 40</u>	<u>4"</u>	<u>0</u>	<u>220'</u>	
Silt trap	<u>stainless +</u>	<u>4"</u>	<u>to 5' below screen</u>		
Protective Cap	<u>stainless +</u>	<u>4"</u>	<u>on top with lock</u>		

NA Data not available at this time
 + Type 304, Schedule 5 stainless steel
 ++ Regular strength screen



300-A

35

200-B

200-E

400-C(D)

BW-5

BW-7

BW-1

BW-2

BW-4

BLM-16

34

BLM-15

BLM-14

BLM-15