



LOG OF WELL MW-9

SEE SITE PLAN

ALISTO PROJECT NO: 10-320-06 DATE DRILLED: 07/01/97
 CLIENT: Pacific Gas and Electric Co.
 LOCATION: Topock Compressor Station
 DRILLING METHOD: Resonant Sonic, Continuous Coring
 DRILLING COMPANY: Boart Longyear CASING ELEVATION: 536.18
 LOGGED BY: Dan Salaices APPROVED BY: Dan Salaices

WELL DIAGRAM	DEPTH feet	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
<p>4" Sch. 80 PVC Casing</p> <p>Cement/Bent Grout</p>	0	GP	GP	sandy GRAVEL: Pale yellowish brown, to light gray; 85% gravel, 4-40 mm, subangular; 15% sand, mostly fine; dry.
	5	SP	SP	SAND: Moderate yellowish brown; fine grained, dry, fill ?
	5.5	GM	GM	silty GRAVEL: moderate brown to dark yellowish brown; 70% gravel, 4-30 mm, subangular.
	6.5	GP	GP	sandy GRAVEL: Pale yellowish brown, to light gray; 85% gravel, 4-40 mm, subangular; 15% sand, mostly fine; dry.
	10	GP	GP	6.5' sandy GRAVEL: Light olive gray; 80% gravel, 4-30 mm, subangular; 40% sand, fine to coarse. 7.5' color change to yellowish gray; 80% gravel, 4-40 mm, subangular; 20% sand, mostly fine and coarse, dry.
15	GM	GM	sandy silty GRAVEL: Pale yellowish brown; 70% gravel, 4-30 mm, subangular, occasional cobble fragment; 15% sand, fine and coarse grained; 15% fines; dry. Same: color change to moderate brown, moist.	



SEE SITE PLAN

ALISTO PROJECT NO: 10-320-08

DATE DRILLED: 07/01/97

CLIENT: Pacific Gas and Electric Co.

LOCATION: Topock Compressor Station

DRILLING METHOD: Resonant Sonic, Continuous Coring

DRILLING COMPANY: Bort Longyear

CASING ELEVATION: 536.18

LOGGED BY: Dan Salaiques

APPROVED BY: Dan Salaiques

WELL DIAGRAM	DEPTH feet	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
<p>4" Sch. 80 PVC Casing</p> <p>Cement/Bent Grout</p> <p>Bentonite</p>	<p>40</p> <p>45</p> <p>50</p> <p>55</p> <p>60</p> <p>65</p>		<p>GH</p> <p>GP SP</p> <p>GP GC</p> <p>GP</p> <p>GM</p>	<p>Same: 80% gravel; 20% sand, fine to coarse grained; 20% fines; dry.</p> <p>gravelly SAND/sandy GRAVEL: moderate yellowish brown; appears to be 50% gravel, 4-30mm; 50% sand, fine to coarse grained; moist.</p> <p>sandy clayey GRAVEL: moderate yellowish brown; 70% gravel, 4-30 mm, subangular; 20% sand, fine to coarse grained; 10% fines; damp.</p> <p>sandy GRAVEL: moderate yellowish brown; 70% gravel, 4-30 mm, subangular and somewhat fractured; 30% sand, fine to coarse grained; damp.</p> <p>sandy silty GRAVEL: Moderate yellowish brown; 70% gravel, 4-50 mm, subangular and somewhat fractured; 15% sand, fine to coarse; 15% fines; moist.</p>



ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA

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 DRILLING COMPANY: Boart Longyear CASING ELEVATION: 536.18
 LOGGED BY: Dan Salices APPROVED BY: Dan Salices

WELL DIAGRAM	DEPTH feet	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
			GM GP GM GC GM	 sandy silty GRAVEL: moderate brown; 70% gravel, 4-30 mm, subangular; 20% sand, fine to coarse grained; 10% fines; very moist. clayey GRAVEL: dark yellowish brown; 80% gravel, 4-30 mm, occasional cobble fragments; 20% sand, fine grained; 20% fines; wet. RED FANGLOMERATE sandy silty GRAVEL: (GM although rock at 88.5) moderate reddish brown, wet to 88.5, dry at 88.5.
				refusal at 89 feet. Total depth of borehole is 89 feet.