

PHILLIPS PETROLEUM COMPANY  
COMPANY "Steamboat Springs" No. 1  
WELL Steamboat Springs Geothermal  
FIELD Sec. 5, T17N-R20E, MDR&M  
LOCATION NW 1/4 of NW 1/4 of NW 1/4  
COUNTY Washoe STATE Nevada  
ELEVATION 5713' K.B. 5600' G.L.  
API WELL INDEX NO  
SPUD DATE 6/5/79 TIME 6:00 PM  
LOG DATES 6/6/79 TO 7/15/79  
LOG DEPTHS 56' TO 3075'  
LOGGING GEOLOGISTS Ross Brunetti Karl Anania  
John Bobbit  
ENERGYLOG UNIT Dakota  
CO GEOLOGIST Bill Desormier  
CO ENGINEER  
CO PUSHER Al Cobb, Gerry McCormach  
DRILLING CO. Peter Bawden Drilling Co.  
RIG 11 PUSHER Blaine Carlson  
MUD COMPANY Milchem  
MUD ENGINEER Russ Morris  
MUD TYPE Gel-Water to 1347'  
Water to  
HOLE SIZE 26" TO 353'  
17 1/2" TO 1347'  
12 1/4" TO 3075'  
CASING SIZE 20" TO 342'  
13 3/8" TO 1322'  
TO  
PUMPS No. 1 National 12B-160 12" x 7"  
No. 2 Emsco FB00 9" x 7"  
DEPTH H



# ENERGYLOG

## ENERGY WELL LOGGING SERVICE

LITHOLOGY SYMBOLS
LIME STONE MITE OXYGEN AND AMMONITE SALT COAL AND LIGNITE CLAY SHALE SILT SANDY SAND OMOLINE CHERT VENUS INTRUSIVE ROCK

m Meta-Seds

MUD DATA	OTHER DATA
W WEIGHT	TG TRIP GAS
V VISCOSITY	STG SHORT TRIP GAS
F FILTRATE	CG CONNECTION GAS
FC FILTER CAKE	NR NO RETURNS
Sd SAND % VOL	LAT LOGGED AFTER TRIP
S SALINITY ppm Cl <sup>-</sup>	C CARBIDE
Sol SOLIDS % VOL	DST DRILL STEM TEST
T TEMPERATURE °F	DST INTERVAL
Rm RESISTIVITY OF MUD at 75°F	CORE INTERVAL
Rf RESISTIVITY OF FILTRATE	CASING POINT

DRILLING DATA
N NEW BIT
RRB RERUN BIT
CB CORE BIT
WOB WEIGHT ON BIT (lbs)
RPM ROTARY REV/MIN
Pp PUMP PRESSURE (psi)

OIL based on live oil in unwashed cuttings, mud, and % staining of washed cuttings  
GAS detector calibration records 100 units with a mixture of 2% by volume methane in air.  
DEPTHs derived from driller's pipe measurements.

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DEPTH H

## DRILLING FLUID PROPERTIES

DEPTH H	PHYSICAL CHARACTERISTICS		GAS ANALYSIS			Petrography and Remarks	
	FLUID: MUD	AIR	CO PPM	100	1000	10M	
50°	TEMP OUT		H2S PPM	0	100	10M	
50°	TEMP IN	100°	150°	0	100	10M	
50°	PRESS (psi)		DITCH GAS	0 (units)	100	10M	
50°	HM OUT	Moist Out	Rm (in)	4.0	4.0	5.0	
50°							
Set 30" Conductor to 40'							
Drill 26" hole							
Lost circ & set cement plugs to seal.							
SCORING: bsbt-ends; red; sdbt, mnr; dk; gyp; apah, crvpxi, devit; tr; f; plug; lshts							
Lost Circ; set cmt plug							
Drill water, no returns							
DEPTH H							

50° 40° 30° 20° 10° 0°

5/5 NB#2 HIC RST-1

5/6 13 N.R.

5/12 N.R.

5/13 N.R.

5/14-15 DRILLING UNIT ON STANDBY

5/14-15 NB#2 SMTH 305 4556.6/88.7 hrs 12-2-2 Change Drill Rate Scales

5/15 PRB#2

5/16 INCR WOB

5/17 6/1 6/2 6/3 6/4 6/5 6/6 6/7 6/8 6/9 6/10 6/11 6/12 6/13 6/14 6/15 6/16 6/17 6/18 6/19 6/20 6/21 6/22 6/23 6/24 6/25 6/26 6/27 6/28 6/29 6/30 6/31 6/32 6/33 6/34 6/35 6/36 6/37 6/38 6/39 6/40 6/41 6/42 6/43 6/44 6/45 6/46 6/47 6/48 6/49 6/50 6/51 6/52 6/53 6/54 6/55 6/56 6/57 6/58 6/59 6/60 6/61 6/62 6/63 6/64 6/65 6/66 6/67 6/68 6/69 6/70 6/71 6/72 6/73 6/74 6/75 6/76 6/77 6/78 6/79 6/80 6/81 6/82 6/83 6/84 6/85 6/86 6/87 6/88 6/89 6/90 6/91 6/92 6/93 6/94 6/95 6/96 6/97 6/98 6/99 6/100 6/101 6/102 6/103 6/104 6/105 6/106 6/107 6/108 6/109 6/110 6/111 6/112 6/113 6/114 6/115 6/116 6/117 6/118 6/119 6/120 6/121 6/122 6/123 6/124 6/125 6/126 6/127 6/128 6/129 6/130 6/131 6/132 6/133 6/134 6/135 6/136 6/137 6/138 6/139 6/140 6/141 6/142 6/143 6/144 6/145 6/146 6/147 6/148 6/149 6/150 6/151 6/152 6/153 6/154 6/155 6/156 6/157 6/158 6/159 6/160 6/161 6/162 6/163 6/164 6/165 6/166 6/167 6/168 6/169 6/170 6/171 6/172 6/173 6/174 6/175 6/176 6/177 6/178 6/179 6/180 6/181 6/182 6/183 6/184 6/185 6/186 6/187 6/188 6/189 6/190 6/191 6/192 6/193 6/194 6/195 6/196 6/197 6/198 6/199 6/200 6/201 6/202 6/203 6/204 6/205 6/206 6/207 6/208 6/209 6/210 6/211 6/212 6/213 6/214 6/215 6/216 6/217 6/218 6/219 6/220 6/221 6/222 6/223 6/224 6/225 6/226 6/227 6/228 6/229 6/230 6/231 6/232 6/233 6/234 6/235 6/236 6/237 6/238 6/239 6/240 6/241 6/242 6/243 6/244 6/245 6/246 6/247 6/248 6/249 6/250 6/251 6/252 6/253 6/254 6/255 6/256 6/257 6/258 6/259 6/260 6/261 6/262 6/263 6/264 6/265 6/266 6/267 6/268 6/269 6/270 6/271 6/272 6/273 6/274 6/275 6/276 6/277 6/278 6/279 6/280 6/281 6/282 6/283 6/284 6/285 6/286 6/287 6/288 6/289 6/290 6/291 6/292 6/293 6/294 6/295 6/296 6/297 6/298 6/299 6/300 6/301 6/302 6/303 6/304 6/305 6/306 6/307 6/308 6/309 6/310 6/311 6/312 6/313 6/314 6/315 6/316 6/317 6/318 6/319 6/320 6/321 6/322 6/323 6/324 6/325 6/326 6/327 6/328 6/329 6/330 6/331 6/332 6/333 6/334 6/335 6/336 6/337 6/338 6/339 6/340 6/341 6/342 6/343 6/344 6/345 6/346 6/347 6/348 6/349 6/350 6/351 6/352 6/353 6/354 6/355 6/356 6/357 6/358 6/359 6/360 6/361 6/362 6/363 6/364 6/365 6/366 6/367 6/368 6/369 6/370 6/371 6/372 6/373 6/374 6/375 6/376 6/377 6/378 6/379 6/380 6/381 6/382 6/383 6/384 6/385 6/386 6/387 6/388 6/389 6/390 6/391 6/392 6/393 6/394 6/395 6/396 6/397 6/398 6/399 6/400 6/401 6/402 6/403 6/404 6/405 6/406 6/407 6/408 6/409 6/410 6/411 6/412 6/413 6/414 6/415 6/416 6/417 6/418 6/419 6/420 6/421 6/422 6/423 6/424 6/425 6/426 6/427 6/428 6/429 6/430 6/431 6/432 6/433 6/434 6/435 6/436 6/437 6/438 6/439 6/440 6/441 6/442 6/443 6/444 6/445 6/446 6/447 6/448 6/449 6/450 6/451 6/452 6/453 6/454 6/455 6/456 6/457 6/458 6/459 6/460 6/461 6/462 6/463 6/464 6/465 6/466 6/467 6/468 6/469 6/470 6/471 6/472 6/473 6/474 6/475 6/476 6/477 6/478 6/479 6/480 6/481 6/482 6/483 6/484 6/485 6/486 6/487 6/488 6/489 6/490 6/491 6/492 6/493 6/494 6/495 6/496 6/497 6/498 6/499 6/500 6/501 6/502 6/503 6/504 6/505 6/506 6/507 6/508 6/509 6/510 6/511 6/512 6/513 6/514 6/515 6/516 6/517 6/518 6/519 6/520 6/521 6/522 6/523 6/524 6/525 6/526 6/527 6/528 6/529 6/530 6/531 6/532 6/533 6/534 6/535 6/536 6/537 6/538 6/539 6/540 6/541 6/542 6/543 6/544 6/545 6/546 6/547 6/548 6/549 6/550 6/551 6/552 6/553 6/554 6/555 6/556 6/557 6/558 6/559 6/560 6/561 6/562 6/563 6/564 6/565 6/566 6/567 6/568 6/569 6/570 6/571 6/572 6/573 6/574 6/575 6/576 6/577 6/578 6/579 6/580 6/581 6/582 6/583 6/584 6/585 6/586 6/587 6/588 6/589 6/590 6/591 6/592 6/593 6/594 6/595 6/596 6/597 6/598 6/599 6/600 6/601 6/602 6/603 6/604 6/605 6/606 6/607 6/608 6/609 6/610 6/611 6/612 6/613 6/614 6/615 6/616 6/617 6/618 6/619 6/620 6/621 6/622 6/623 6/624 6/625 6/626 6/627 6/628 6/629 6/630 6/631 6/632 6/633 6/634 6/635 6/636 6/637 6/638 6/639 6/640 6/641 6/642 6/643 6/644 6/645 6/646 6/647 6/648 6/649 6/650 6/651 6/652 6/653 6/654 6/655 6/656 6/657 6/658 6/659 6/660 6/661 6/662 6/663 6/664 6/665 6/666 6/667 6/668 6/669 6/670 6/671 6/672 6/673 6/674 6/675 6/676 6/677 6/678 6/679 6/680 6/681 6/682 6/683 6/684 6/685 6/686 6/687 6/688 6/689 6/690 6/691 6/692 6/693 6/694 6/695 6/696 6/697 6/698 6/699 6/700 6/701 6/702 6/703 6/704 6/705 6/706 6/707 6/708 6/709 6/710 6/711 6/712 6/713 6/714 6/715 6/716 6/717 6/718 6/719 6/720 6/721 6/722 6/723 6/724 6/725 6/726 6/727 6/728 6/729 6/730 6/731 6/732 6/733 6/734 6/735 6/736 6/737 6/738 6/739 6/740 6/741 6/742 6/74