

Hole No. 57-13

Coordinates \_\_\_\_\_

Type Drill \_\_\_\_\_

Bit Size \_\_\_\_\_

Sheet No. 1

Date Started \_\_\_\_\_

Date Completed \_\_\_\_\_

PHILLIPS PETROLEUM CO.

**GEOLOGIC LOG**

Collar Elevation \_\_\_\_\_

Total Footage \_\_\_\_\_

Overall Core Recovery \_\_\_\_\_

Logged By \_\_\_\_\_

Randy Thompson

file in Main Prospect file

Box

FROM	TO	FT. OF CORE	TYPE	ROCK DESCRIPTION, ALTERATION AND REMARKS	METALLIZATION			SECTION DEPTH
409	426		1	DACITE - dk. gray to black; stoney; sl. porph.; occ. vesicular				DACITE
426	437		2	DACITE - AA, sl. more vesicular				DACITE
437	452.0		3	DACITE - vesicular; v. broken 451-452				
452.0	452.5		3	BASALT - dk gray to black; oxidized and v. vesicular on top;				
452.5	462		4	BASALT - AA; becomes massive w/no ves. at 460.				BASALT
462	476.5		5	BASALT - AA zones of red oxidation vesicles at 462 v. vesicular				
481.5	490.5		6	BASALT - M. gray; massive to med to thin parting; sl. vesicular; fr. x7/17 to stoney.				
490.5	494.5		7	BASALT - AA				
494.5	500		7	ASH - red; occ. blk basalt & cinder frag.				ASH
500	521		8	ASH - AA				
521	532		9	ASH/CINDER - becomes cinder at 522				
532	539		10	ASH/CINDER - AA				
539	544.5		10	LITHIC TUFF - redish at top grading to greenish gray; frag. of basalt; friable; soft				LITHIC TUFF
544.5	553		11	Lithic Tuff				
553	562		12	Lithic Tuff				
562	566		13	Lithic Tuff				
566	568		13	v. ASH - red but is tuffaceous				ASH
568	569		13	Lithic Tuff AA				TUFF
569	574		13	v. Ash - red-orange; occ. cinder lithic frags.				ASH
574	583		14	v. Ash - red to orange; sl. lithic				

7  
what happens to 471.5-481.5?

Hole No. \_\_\_\_\_

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Sheet No. 2

Date Started \_\_\_\_\_

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PHILLIPS PETROLEUM CO.

Collar Elevation \_\_\_\_\_

Total Footage \_\_\_\_\_

Overall Core Recovery \_\_\_\_\_

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## GEOLOGIC LOG

FROM	TO	FT. OF CORE	TYPE	ROCK DESCRIPTION, ALTERATION AND REMARKS	METALLIZATION		SECTION DEPTH
583	592		15	Volcanic Ash - AA; sl. more lithic			
592	595		16	V. Ash - AA			
595	600		16	Tuff - Salmon colored - lithic; could be v. ash			
600	606		17	Tuff - AA			
606	609.5		17	V. Ash - red to orange; lithic w/ Basalt & cinder			
609.5	617.5		18	V. Ash - AA			
617.5	623		19	V. Ash - AA			
623	637		20	V. Ash - AA becomes welded and banded at <del>629</del> 633			
637	647		21	V. Ash - AA; glassy at bottom			
647	657		21	Welded Tuff? dk. gray to m. gray bands with occ. cinder? at top; <sup>med.</sup> med. to lg. parting; fm. xtlk to vitreous.			
657	666		22	Welded Tuff - abundant gas cavities			
666	675		23	Welded Tuff - AA			
675	683		24	Welded Tuff - becoming less banded. (looks like basalt?)			
683	694.5		25	Tuff? - fewer gas vesicles, massive, fm. xtlk.			
694.5	703.5		26	Welded Tuff - AA; banding begins again at 701.5			
703.5	713.5		27	Welded Tuff - AA; v. convoluted banding at 708'. hz banding w/ med. parting begins at 710'			
713.5	722.5		28	Welded Tuff - AA			
722.5	731		29	Welded Tuff - AA			
731	740		30	Welded Tuff - AA			
740	748.5		31	Welded Tuff - AA less massive here - but stony			
748.5	759		32	Welded Tuff - AA stony to vitreous - punky in places			
759	767		33	Welded Tuff - AA			

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Sheet No. 3

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## GEOLOGIC LOG

FROM	TO	FT. OF CORE	TYPE	ROCK DESCRIPTION, ALTERATION AND REMARKS	METALLIZATION			SECTION DEPTH
767	776		34	Welded Tuff - AA v. punky glassy broken				
776	786		35	Welded Tuff - AA				Welded Tuff
786	802		36	Welded Tuff - AA				
802	808		37	Welded tuff				
808	811		37	V. Ash - blocky dark gray; friable soft occ. lithics				
811	813		38	Ash - AA - more cinders here				Ash
813	820		38	Lithic Tuff - M. gray; friable; soft; lithic frags of basalt, pumice etc				
820	830		39	Lithic Tuff - good contact at 821 (we may have both basaltic and silicic erupted centers providing ash/pumice next box)				Lithic Tuff
830	835		40	Lithic tuff				
835	839		40	Vitric Tuff - H. gray, v. vitreous, pebbly in places.				punky
839	849		41	Vitric Tuff - v. pebbly - more massive/welded?				Vitric Tuff
849	856		42	Vitric tuff - massive nice specimens				
856	865		43	Vitric tuff - becoming broken w/occ. red stringers				
865	867		43	Andesite? - H. red; vesicular; thin to med partings; yellow/orange sulfataric(?) stain on some surfaces; frn x11m				
867	878.5		44	Andesite? - AA TUFF?				Welded Tuff?
878.5	887		45	Andesite - AA TUFF?				
887	899		46	Dark Weld Tuff - Looking more like welded tuff w/oxidized top; flow banding becoming common w/fewer parting surfaces				
899	908		47	Welded Tuff - AA				
908	917		48	Welded Tuff - AA				

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Sheet No. 4

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## GEOLOGIC LOG

FROM	TO	FT. OF CORE	TYPE	ROCK DESCRIPTION, ALTERATION AND REMARKS	METALLIZATION			SECTION DEPTH
917	925		49	Welded Tuff-HH				
925	935		50	Welded Tuff-AA				
935	945		51	Welded Tuff-AA v. broken & fractured				Welded Tuff
945	952		52	Welded Tuff-AA				
952	955.5		52	Welded Tuff-dk gray to black; massive; occ. lithic frags of cinder/basalt; stony to vitreous. (subxtln)				
955.5	957.5		53	Welded Tuff-AA				
957.5	961.5		53	Ash/Breccia zone interflow zone which has been "baked" by above Tuff; Red to orange with angular frags Nice contact line				Breccia zone
961.5	971.5		53	v. Ash-dk gray to black; Soft				v. Ash
971.5	972		53	BASALT-M, dk gray; fr. xtln; fr. vesicles; no obs. phenos.				BASALT
972	973		54	BASALT-AA				
973	981.5		54	Ash - See above				ASH
981.5	998.5		54	BASALT-AA				
998.5	1008		55	BASALT/AA becoming sl. reddish-water stains on jointing surfaces.				
1008	1016		56	BASALT-HH				Welded tuff?
1016	1024		57	BASALT-AA				Ref.
1024	1031		58	BASALT? - Vesicles and flow banding becoming & becoming more like siliceous rx.				
1031	1040		59	BASALT/Rhyolite tuff?				
1040	1048		60	Rhyolite tuff? v. convoluted flow banding				

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## GEOLOGIC LOG

FROM	TO	FT. OF CORE	TYPE	ROCK DESCRIPTION, ALTERATION AND REMARKS	METALLIZATION			SECTION DEPTH
1048	1127	61-69		Welded Rhyolite tuff - dk gray w H. gray & H. red banding; xlln to crypt. to glass; no obs. phen + flow banding gives way to sub hz. broken in last 2' at 1125'				Welded Rhyolite Tuff
1127	1172.5	70-75		Welded Rhyolite tuff vuggy in places. broken at bottom				
1172.5	1174	75		Welded Rhyolite - H. gray to dk gray; micro xlln to vitreous; banded - welded lower portion				
1174	1182	76		Welded Rhyolite tuff - becoming v. welded and glassy on bottom (black)				
1182	1184	77		Welded Rhyolite tuff AA				
1184	1188	77		Lithic tuff - orange; soft; frag. of pumice and basalt, scoria etc.				Lithic Tuff
1188	1192	77		TUFF - Lt orange to H. gray; soft; vitric				
1192	1201.5	78		WTUFF - AA ex: m. gray bands or mass welded				
1201.5	1212	79		WTUFF - AA Brecciated w/lg blocks				W. Tuff
1212	1230.5	80		W Tuff - frags and joints have yellow-orange stain soft and friable in places.				
1230.5	1250	81		W. Tuff - AA broken steel				
1250	1257	82		W. Tuff - v. broken				
1257	1261	83		BASALT - H. reddish gray; vesicular; brecciated and weathered; v. broken				BASALT RUBBLE
1261	1271.5	83		BASALT Rubble - AA				
1271.5	1284	84		BASALT Rubble - AA				
1284	1288.5	85		BASALT Rubble				

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**GEOLOGIC LOG**

FROM	TO	FT. OF CORE	TYPE	ROCK DESCRIPTION, ALTERATION AND REMARKS	METALLIZATION	SECTION DEPTH
12885	1293	85		Andesite?? - <del>is</del> greenish gray; mottled; vesicular; altered; strange; needs sampling		
1293	1302.5	86		Andesite?? - AA solid to soft; broken could be altered breccia or tuff?		
1302.5	1313	87		Andesite? AA		
1313	1313.5	88		Andesite? AA		
1313.5	1322	88		Rhyolite?? - dk gray-black; stony to vitreous; vuggy; St. morph (vitrophyre)		
1322	1331	89		W. Tuff - AA occ. soft and "ashy"	Welded Tuff Breccia	
1331	1340	90		W. Tuff - V. Brecciated		
1340	1349	91		W. tuff - AA inter black material beds like tuff		
1349	1357	92		W. Tuff Breccia		
1357	1365	93		W. Tuff Breccia		
1365	1374	94		W. Tuff Breccia - AA yellowish stains on surfaces		
1374	1383	95		W. Tuff Breccia - AA		
1383	1392	96		W. Tuff Breccia - AA more tuffaceous vs E. side		
1392	1401	97		W. Tuff Breccia - AA v. Tuffaceous 1394-1402		
1401	1410.5	98		W. Tuff Breccia - AA		
1410.5	1419	99		W. Tuff Breccia - AA		
1419	1420	99		W. Tuff <sup>obsidian</sup> - dk gray to black; stony to vitreous; porphyritic; massive but fractured no vesicles		
1420	1429	100		<del>Obsidian</del> - AA		

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Sheet No. 7

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**GEOLOGIC LOG**

FROM	TO	FT. OF CORE	TYPE	ROCK DESCRIPTION, ALTERATION AND REMARKS	METALLIZATION			SECTION DEPTH	
1424	1438		101	<del>Obsidian - AA</del> Vitrophyre					
1438	1448		102	Obsidian - AA Vitrophyre				Vitrophyre	
1448	1457		103	Obsidian - AA					
1457	1465		104	Obsidian vitrophyre - becoming v. vuggy at 1464 no obvious rubble boundary					
1465	1470.5		105	Vitrophyre - AA					
1470.5	1474		105	Xenolith? - large block of basalt?					
1474	1475		105	Vitrophyre - H. to dk gray; v. vuggy w/ <sup>2-3</sup> XT/15 w/w vugs; Amygdaloidal; glassy to cryptocrystalline; porphyritic broken in places (watercourse)					
1475	1484		106	Vitrophyre AA					
1484	1493		107	Vitrophyre AA - v. vuggy to 1489 - then back to more massive vitrophyre - still vuggy in places				Vitrophyre	
1493	1502		108	Vitrophyre - AA - intermittent between vuggy and unaltered massive vitrophyre					
1502	1505		109	Vitrophyre - AA					
1505	1509		109	Welded tuff - m. - dk gray to reddish gray; flow banding w/ vesicles // to it; much water stain; generally broken and fractured;					
1509	1517		110	Welded tuff - AA					
1517	1525.5		111	Welded tuff - AA				Welded tuff	
1525.5	1532		112	Welded tuff - AA more massive less fractured					
1532	1542		113	Welded tuff - AA more hz banding					
1542	1549		114	Welded tuff - AA ore zones of v. broken material					
1549	1555		115	Welded tuff - AA					

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Sheet No. 8

PHILLIPS PETROLEUM CO.

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## GEOLOGIC LOG

FROM	TO	FT. OF CORE	TYPE	ROCK DESCRIPTION, ALTERATION AND REMARKS	METALLIZATION			SECTION DEPTH	
1555	1562		116	Welded Tuff - AA					
1562	1570		117	Welded Tuff - AA					
1570	1578		118	Welded Tuff - AA					
1578	15855		119	Welded Tuff - AA					
15855	15945		120	Welded Tuff - AA					
15945	15955		121	Welded Tuff - AA					
15955	1609		121	ROBBLE - AA					
1609	1626		122	ROBBLE - AA					
1626	1627		123	ROBBLE					
1627	1635		123	GLASS - Lt gray perlite to black glass slowsy to vitreous; sl. porph					
1635	1642		124	GLASS - AA broken at ~ 1639-42					
1642	1649		125	GLASS - AA; v. broken and altered 1642-1647					
1649	1651		126	GLASS - AA					
1651	1657		126	Altered lithic Tuff - buff to yellowish orange; lithic w/ sm. to lg blocks, matrix is acc. soft gum-hard.					
1657	16635		127	Altered lithic tuff - AA					
16635	1665		127	TUFF - dk gray w/lt. gray streaks;					
1665	1673		128	tuff - becoming lt. gray; v. light; (altered glass?)					
1673	16825		129	Altered GLASS - lt. gray to black; purple ALIN to vitreous - becoming more vitreous w/ depth					
16825	1690		130	Altered GLASS - AA becoming less vitreous at 1684					
1690	1699		131	Altered Glass - AA broken w/ no block glass					
1699	1706		132	Altered Glass (or tuff?) - becoming lt. green.					



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Sheet No. 9

PHILLIPS PETROLEUM CO.

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**GEOLOGIC LOG**

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FROM	TO	FT. OF CORE	TYPE	ROCK DESCRIPTION, ALTERATION AND REMARKS	METALLIZATION		SECTION DEPTH
1706	17135	133		ALTERED GLASS or tuff - v. broken block stain on parting surf			
1717.5	17215	134		Altered Glass or tuff-AA			
17215	1730	135		Altered Glass or tuff-AA more massive less broken of 1285			
1730	1739	136		Altered GLASS or tuff-AA broken again			
1739	1748	137		Altered tuff			
1748	1748.5	138-141		"			
1777.5	1778	141		Altered tuff - lt gray to reddish gray; v. soft & punky to hard			
1778	1787	142		Altered tuff			
1787	1796	143		Altered tuff			
1796	1804.5	144		Altered tuff rubble at 1802-1806			
1804.5	1808	145		Altered tuff			
1808	1810	146		GLASS - black; stoney			
1810	1811.5	146		GLASS - AA			
1811.5	1817	146		BASALT - m gray w/much staining in upper portion; broken; v. frag.			
1817	1824.5	147		BASALT - AA, less stain more massive w/med parting			BASALT
1824.5	1832	148		BASALT - AA vesicular at 1830			
1832	1840	149		BASALT - AA			
1840	1846	150		BASALT - AA			
1846	1850	151		BASALT - AA broken 1848-50			
1850	1854.5	151		BASALT & TUFF RUBBLE			RUBBLE
1854.5	1863	152		TUFF - lt gray; soft to hard; some weathering & Alter.			TUFF
1863	1873	153		TUFF - AA			

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Sheet No. 10

PHILLIPS PETROLEUM CO.

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**GEOLOGIC LOG**

FROM	TO	FT. OF CORE	TYPE	ROCK DESCRIPTION, ALTERATION AND REMARKS	METALLIZATION			SECTION	DEPTH
1873	1883	154	TUFF-AA						
1883	1893	155	TUFF-AA	becoming harder and more welded at 1893					
1893	1902.5	156	TUFF-AA	soft & broken					
1902.5	1911	157	WTUFF-AA	Hard at 1909 OCC vuggy					
1911	1920	158	WTUFF-AA	reddish gray where hard					
1920	1929	159	WTUFF						
1929	1935	160	<del>WTUFF</del> Welded Tuff-AA						
1935	1943	161	WTUFF	getting soft in places					
1943	1951	162	TUFF	J. weathered / Altered					
1951	1960	163	TUFF						
1960	1969	164	WTUFF-AA						
1969	1977	165	WTUFF-AA						
1977	1985	166	WTUFF-AA						
1985	1993.5	167	WTUFF-AA						
1993.5	2003	168	Altered welded Tuff-AA						
2003	2012	169	Altered welded Tuff-AA						
2012	2021	170	Altered welded Tuff-AA						
2021	2022	171	Altered welded Tuff-AA	grades into dk gray ash w/glass					
2022	2030	171	BASALT-M	gray; fr gr; massive, sl. broken					
2030	2039.5	172	BASALT-AA						
2039.5	2042.5	173	BASALT-AA						
2042.5	2055	173	Altered welded Tuff-AA						
2055	2064	174	ALT. welded Tuff-AA						
2064	2073	175	ALT. welded Tuff-AA						

ALTERED WELDED TUFF

BASALT

ALT. welded Tuff

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Sheet No. 11

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FROM	TO	FT. OF CORE	TYPE	ROCK DESCRIPTION, ALTERATION AND REMARKS	METALLIZATION	SECTION DEPTH
2073	2083		176	Alt. welded Tuff		
2083	2091.5		177	Alt. welded Tuff - 1/4 in. could just be soft 1/4 in. could just		
2091.5	2099		178	Alt. welded Tuff		
2099	2108		179	Alt. welded Tuff - friable section		
2108	2116		180	Alt. welded Tuff - friable section		
2116	2125		181			
2125	2134		182			
2134	2143		183	Alt. welded Tuff - Rather less friable		
2143	2152		184	Alt. welded Tuff - back to hrs. & soft section		
2152	2162		185	Alt. welded Tuff - Alt		
2162	2172		186	Alt. welded Tuff - Alt		
2172	2182		187	Alt. welded Tuff		
2182	2196.5		188	Alt. welded Tuff		
2196.5	2200		189	Alt. welded Tuff - Alt		
2200	2209		190	Alt. welded Tuff - Alt		
2209	2217		191	Alt. welded Tuff - becoming hard (more welded)		
				W. occ. cinder xenoliths		
2217	2226		192	Welded Tuff - M gray; massive w/ occ. red zones along flow banding planes which suggest cinder xenoliths & oxidation in vesicular zone		
2226	2234		193	Welded Tuff - Alt		
2234	2242		194	Welded Tuff - Alt		
2242	2249		195	Welded Tuff - Alt v. brown and soft; reddish gray		
2249	2257		196	Welded Tuff - Rubble Alt		

TUFF  
TUFF  
TUFF

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Sheet No. 12

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**GEOLOGIC LOG**

FROM	TO	FT. OF CORE	TYPE	ROCK DESCRIPTION, ALTERATION AND REMARKS	METALLIZATION			SECTION DEPTH	
2257	2265		197	Welded Tuff / Rubble					
2265	2275		198	V. Ash - redish gray to gray - soft to hard occ. glassy lithic zones					
2275	2284		199	V. Ash / Tuff - AA					
2284	2285		200	V. Ash / Tuff - AA lithes of basalt & glass & vitrophyne					
2295	2303		201	V. Ash / Tuff - Reddish gray; Occ. lg. blocks					
2303	2311		202	V. Ash / Tuff - AA					
2311	2320		203	V. Ash / Tuff - AA					
2320	2327		204	V. Ash / Tuff - AA becoming harder					
2327	2335		205	Lithic Red tuff - AA					
2335	2344		206	Red Lithic Tuff - AA					
2344	2352		207	Red Lithic Tuff - AA					
2352	2355		208	Red Lithic Tuff - AA					
2355	2359		208	BASALT - M - dk gray; broken; sm. vesicles; v. fn at 11w.					
2359	2365		209	BASALT - AA					
2365	2375		210	BASALT - AA					
2375	2384		211	BASALT - AA					
2384	2392		212	BASALT - AA					
2392	2395		213	BASALT - AA					
2395	2401		213	Red Tuff - H. red; tufaceous soft to hard;					
2401	2411.5		214	Red Tuff - AA					
2411.5	2421.5		215	Red Tuff -					
2421.5	2431		216	Red Tuff - AA					

*Lithic Tuff*

*BASALT*

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Sheet No. 13

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Total Footage \_\_\_\_\_

Bit Size \_\_\_\_\_

Overall Core Recovery \_\_\_\_\_

Logged By \_\_\_\_\_

**GEOLOGIC LOG**

FROM	TO	FT. OF CORE	TYPE	ROCK DESCRIPTION, ALTERATION AND REMARKS	METALLIZATION		SECTION DEPTH	
2431	2442.5	217		Red Tuff - AA				
2440.5	2448	218		Red Tuff - AA				
2448	2455	219		Red Tuff - becoming more welded and more broken at 2452 welded zones are glassy - occ. lg. lithic blocks (could be cal. brecciate)				
2455	2463	220		Red Tuff				
2463	2470	221		Red Tuff				
2470	2476	222		Red Tuff				
2476	2482	223		Red Tuff - AA - soft to bed				
2482	2489	224		Red lithic tuff -				
2489	2498	225		Red lithic tuff				
2498	2507	226		Red lithic tuff				
2507	2517	227		Red lithic tuff				
2517	2528.5	228		Red lithic tuff - v. soft and lots of red v. ash 2525 - 2528.5				
2528.5	2538	229		Welded Tuff - Red to m. gray; v. fine gr. to cryptocrystalline; porph, occ. spherulites; broken <del>to</del> red streaks along banding planes; brecciated				
2538	2545	230		Welded Tuff - AA				
2545	2554.5	231		Welded Tuff - AA				
2554.5	2562	232		Welded Tuff - AA				
2562	2570	233		Welded Tuff - AA				
2570	2576	234		Welded Tuff - AA				
2576	2599	235-237		Welded Tuff - AA				
2599	2600	237		TUFF - lt. reddish gray; med. soft; occ lithic				

Red lithic  
Tuff

Welded Tuff

looks like about 25'  
more than welded zones

TN PE

Hole No. 57-13

Coordinates \_\_\_\_\_

Type Drill \_\_\_\_\_

Bit Size \_\_\_\_\_

Sheet No. 14

Date Started \_\_\_\_\_

Date Completed \_\_\_\_\_

PHILLIPS PETROLEUM CO.

Collar Elevation \_\_\_\_\_

Total Footage \_\_\_\_\_

Overall Core Recovery \_\_\_\_\_

Logged By Smith/Beck

**GEOLOGIC LOG**

FROM	TO	FT. OF CORE	TYPE	ROCK DESCRIPTION, ALTERATION AND REMARKS	METALLIZATION		SECTION DEPTH
2600	2608	238		TUFF-AA			
2608	2612	239		TUFF-AA			
2612	2615.5	239		Welded Tuff-AA			
2615.5	2625	240		Welded Tuff OCC. soft			
2625	2634.5	241		Welded Tuff			
2634.5	2643.5	242		Welded Tuff			
2643.5	2653	243		Welded Tuff			
2653	2698	244-248		Welded Tuff			
2698	2705.5	249		Welded Tuff becoming lithic w/glassy & basaltic frag at 2698			
2705.5	2711	250		Welded Tuff-AA			
2711	2713	250		Gloss - m gray to black; crystalline to w/drawn to stony; v. broken up - fragmental with grey - powdery tuffaceous matrix.			
2713	2721	251		A.A. prop of fragmental glass vs white/grey tuff varies considerably			
2721	2728	252		A.A. Glass fraction mainly sand size particles			
2728	2736	253		A.A. Some larger obsid. pieces			
2736	2744	254		A.A. Obsidian, fragmental w/varying amts grey/white soft powdery tuff/ASH			
2744	2753	255		A.A.			
2753	2761	256		AA w/glass as angular frags in soft grey tuffaceous/Ashy matrix, glass breccia			
2761	2777.5	257		A.A.			

GLASS

Hole No. 57-13

Coordinates \_\_\_\_\_

Sheet No. 15

PHILLIPS PETROLEUM CO.

Collar Elevation \_\_\_\_\_

Date Started \_\_\_\_\_

Total Footage \_\_\_\_\_

Type Drill \_\_\_\_\_

Date Completed \_\_\_\_\_

Overall Core Recovery \_\_\_\_\_

Bit Size \_\_\_\_\_

Logged By Beall

**GEOLOGIC LOG**

FROM	TO	FT. OF CORE	TIME BOX	ROCK DESCRIPTION, ALTERATION AND REMARKS	METALLIZATION	SECTION DEPTH
2770.5	2775	258		AA put grading to a multilithic breccia		Rubble/Paleosol
2775	2776	258		Mud/clay, brn to blk, organic (old soil horizon)		
2776	2780	259		Basalt, massive, fn grad, vesicular		
2780	2789.5	259		Basalt, vesicular, fine grad, blk		BASALT
2789.5	2796	260		Basalt, highly weathered, grungy, bluish clay alteration		
2796	2799	260		weathering grading to soft, red scoriaceous cinders		CINDER
2799	2801	261		Bed cinders AA		
2801	2806	261		Basalt, blk, fine grad, some shear zones, highly glazed and slickensided		
2806	2814	262		Basalt AA		BASALT
2814	2822	263		Basalt AA (V. highly sheared w/ glazed + ssided surfaces)		
2822	2831	264		Basalt A.A. (less sheared)		
2831	2839	265		Basalt AA		
2839	2846	266		Basalt AA		
2846	2849	266		Soft red cinders/scoria		CINDER/ASH deep zone
2849	2851	267		grey/pink tuff/cinders/ash		
2851	2857	267		Basalt, blk, fine grad, highly sheared		
2857	2865	268		Basalt A.A.		
2865	2873.5	269		Basalt A.A.		BASALT
2873.5	2881	270		Basalt A.A.		
2881	2892.5	271		Basalt AA		
2892.5	2894	272		Basalt AA		
2894	2899	272		Bed, highly sheared cinders, <sup>Tuff</sup> and volcaniclastic sed		

