UNITED COMPANY OF OREGON, INC.

WEED & POTEET #1, Section 9 Township 23 South
Range 31 East,
Harney County, Oregon

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DESCRIPTION OF CUTTINGS

DEPTH.

0	430	sand and gravel and tuffaceous shale and clay.
430	440	soft white, brown and coffee colored tuffaceous clay; conglomerate imbedded in clay.
440	450	same as above.
450	460	soft white, tan and coffee colored clay; hard light tan to yellow altered material.
460	470	light tan altered material as above and little conglomerate.
470	490	same as above and little volcanic tuff.
490	500	same as above but with more pure white clay(altered ash)
500	550	same as above but more varied in color.
550	570	same as above and with few pieces of light green shale.
570	580	same as above but with more soft light yellow clay; little lime present in formation.
580	590	soft salmon colored clay; clear quartz crystals embedded in clay.
590	600	same as above.
600	610	vari-colored tuffaceous clay; green and gray-brown lava.
610	620	gray, tan and brown lava; vari-colored tuffaceous clay.
620	630	grayish tan lava with very fine black minerals; some pieces spotted and streaked with green mineral.
630	660	hard grayish tan lava.
660	670	red to brick colored altered material and lava; some vari-colored crystals.
670	680	grayish tan to grayish green lava.
680	690	same as above.
690	700	brick red sandy shale with clear quartz crystals embedded in shale; pieces of vari-colored lava.
700	710	grayish tan lava with vari-colored crystals.
710	720	hard grayish tan lava and green streaks in some pieces; few quartz crystals; few pieces of green shale.
720	730	same as above but with no green shale.
730	740	grayish tan to grayish green lava with few pieces of clear quartz crystals and some vari-colored clays.
740	750	grayish tan to grayish green lava with some brick colored to red lava and altered material.
750	760	gray to brick colored lava spotted with vari-colored crystals (green, white, black, gray)
760	770	light yellow and brick colored sandy conglomerate; very fine clear quartz crystals.
770	780	soft white tuffaceous clay and few pieces of soft vari-colored clay.
780	790	soft white to cream colored clay (when dry); light yellow when wet.

790	800	vari-colored soft to hard clay; small pieces of leaflike material in clay.
800	810	gray to light salmon colored, hard conglomerate with clear fine quartz crystals.
810	820	light salmon colored conglomerate with high quartz content and some vari-colored material of same nature.
820	840	same as above.
840	850	light gray to light salmon colored clay; hard brittle quartz embedded in clay.
850	860	hard brittle yellow altered material (ash) high % of quartz in this material.
860	870	gray and green crystalline material (altered)
870	880	light yellow and gray altered ash.
880	890	same as above.
890	900	same as above.
900	910	vari-colored ash.
910	920	same as above but with little green shale.
920	930	gray and vari-colored altered ash.
930	940	soft gray and green clay and some vari-colored tuffaceous clay.
940	950	vari-colored clay and conglomerate.
950	960	gray volcanic conglomerate with fine rounded grains; has crystalline matrix and very porous.
960	970	same as above but with some gray shale and pyrite.
970	980	soft gray and white tuffaceous clay.
980	990	same as above but with some conglomerate.
990	1000	same as above but with few pieces of hard grayish black lava.
1000	1010	very hard grayish black basaltic lava.
1010	1020	same as above and very high pyrite content.
1020	1030	same as above.
1030	1040	90% grayish black lava and 10% white tuffaceous clay.
1040	1050	lava as above and a few pieces of tan tuffaceous shale.
1050	1060	hard grayish black lava.
1060	1090	same as above.
1090	1100	hard grayish black lava with some clear quartz crystals.
1100	1110	Same as above.
1110	1120	50% grayish black lava, 50% gray tuffaceous shale.
1120	1130	99% hard grayish black lava as above and 1% shale.
1130	1140	hard grayish black lava; few pieces of gray tuffaceous shale.
1140	1150	25% grayish black lava; 75% soft gray sandy tuffaceous shale with few pieces of white clay.
1150	1160	soft grayish green tuffaceous shale.
1160	1170	10% grayish black lava; 90% soft gray-green tuffaceous shale; vari-colored with large sand grains.
1170	1180	10% lava, 90% vari-colored tuffaceous shale; some conglomerate with large pieces of quartz.
1180	1190	1% lava; 99% grayish green and vari-colored tuffaceous shale; white and cream colored lime.
1190	1200	green tuffaceous shale; white and cream colored lime; large quartz crystals.
1200	1210	gray and white tuffaceous shale and embedded are pieces of obsidian.
1210	1220	same as above.

1220	1230	gray, white and green tuffaceous shale.
1230	1240	gray, white, and vari-colored tuffaceous shale; some tan lava and pieces of obsidian.
1240	1250	same as above.
1250	1280	same as above.
1280	1290	soft cream and white sandy shale.
1290	1300	gray and vari-colored tuffaceous shale and conglomerate very large pieces of quartz.
1300	1310	grayish green and vari-colored sandy conglomerate.
1310	1320	same as above and with lime.
1320	1330	vari-colored sandy shale.
1330	1340	same as above and little grayish black lava.
1340	1350	vari-colored sandy tuffaceous conglomerate; iron pyrite and little lava.
1350	1360	gray and grayish black and vari-colored sandy conglomerate.
1360	1370	same as above and little lime.
1370	1380	same as above.
1380	1390	gray and grayish black and varicolored sandy conglomerate.
1390	1400	gray sandy agglomerate and some tuffaceous material; vari-colored lava and large quartz crystals.
1400	1410	grayish black lava; sandy tuffaceous agglomerate; quartz and obsidian.
1410	1420	same as above.
1420	1430	grayish black agglomerate; iron pyrite and vari-colored crystals.
1430	1440	same as above.
1440	1470	vari-colored sandy agglomerate; obsidian and quartz.
1470	1480	light green glassy lava and vari-colored lava.
1480	1510	light green and white glassy lava.
1510	1517	grayish black lava and coarse to fine grained vari-colored sand with hard and soft streaks in drilling, little gas in mud. LOST CIRCULATION. Slight fluorescence.
1520	1525	grayish black lava and vari-colored sand, soft drilling.
1530	1535	vari-colored coarse to fine grained sand; little white and salmon colored tuffaceous shale. Slight fluorescence. No odor.
1535	1540	lost circulation, no samples.
1540	1550	coarse to fine grained sand; little white and salmon colored tuffaceous shale. Slight fluorescence.
1550	1585	no samples lost circulation.
1585	1590	very hard grayish white altered sediments; silica and iron pyrite present; salmon colored spots on altered material.
1590	1600	same as above.
1600	1610	same as above but with vari-colored lava.
1610	1615	same as above.
1623	1625	same as above and few pieces of tan shale.
1625	1635	no samples.
1635	1645	very hard grayish white altered material.
1645	1655	grayish white altered sediments with iron pyrites.
1655	1665	same as above.
1665	1675	no samples.
1675	1685	grayish white altered sediments, little coarse sand.
1685	1690	hard grayish white altered sediments with yellow shale.
1690	1700	same as above but with little green shale.

1700	1705	hard grayish white altered sediments.
1705	1715	same as above but with few pieces of green shale.
1715	1720	same as above.
1720	1730	gray & white hydrothermally altered hard sediments, few pieces of soft tan shale and soft green shale.
1730	1775	lost circulation.
1775	1780	coarse to fine grained, vari-colored angular volcanic sand. Coarse quartz; little lime.
1780	1815	lost circulation.
1815	1820	coarse to fine grained volcanic agglomerate; little lime.
1820	1825	coarse to fine grained volcanic agglomerate gray and white in color; little lime.
1825	1830	white and vari-colored agglomerate; lot of lime.
1830	1835	fine grained to coarse volcanic agglomerate; salmon colored sand and some lime.
1835	1840	same as above.
1840	1895	vari-colored volcanic agglomerate.
1895	2025	lost circulation; no returns.
2025	2030	vari-colored volcanic agglomerate, ground fine by the bit, some lime and black speckled porus material which looks like coke; may be remains of petroleum.
2030	2035	same as above.
2035	2040	same as above but with little diatomaceous earth; little green shale.
2040	2045	green shale and black altered material.
2045	2085	lost circulation.
2085	2090	vari-colored volcanic agglomerate; some sand and white limey ash; little green shale.
2090	2110	same as above.
2110	2115	light green and gray shale; tan and white limey ash. volcanic agglomerate.
2115	2120	vari-colored volcanic agglomerate, tan and white limey ash, little green shale.
2120	2150	same as above.
2155	2160	vari-colored agglomerate; green and brown shale; pieces of carbon; little lime
2160	2165	vari-colored volcanic sand and agglomerate; gray and white limey ash. sand is very course.
2165	2170	same as above.
2170	2175	same as above.
2175	2180	vari-coloed volcanic agglomerate; tan and white limey ash; gray, green and black shale.
2180	2185	same as above.
2185	2190	gray and green shale; vari-colored agglomerate sand tan and white limey ash.
2190	2195	same as above.
2195	2200	gray and light green shale, white limey ash, vari-colored volcanic agglomerate.
2200	2205	same as above.
2205	2210	vari-colored volcanic agglomerate; black shale and green shale; white limey ash.

2210	2215	gray and green shale and vari-colored volcanic agglomerate and white limey ash.

2215	2225	same as above.
2225	2330	no samples; lost circulation.
2270	2275	cored - gray green brittle tuffaceous shale.
2325	2344	vari-colored volcanic agglomerate; tan and white limey ash; little black shale.
2344		bit sample - green sticky clay few pieces of hard green sandy shale mixed in with sticky clay. one piece of brown shale with hydrocarbons similar to that found in Fay #1 well at 3700-3800'.
2345	2350	vari-colored volcanic agglomerate; tan and white limey ash.
2350	2355	grayish black altered material. vari-colored volcanic agglomerate. yellow and white limey ash. little bright green shale.
2355	2360	same as above and some tan and gray shale.
2360	2370	same as above.
2370	2375	grayish black altered material; vari-colored agglomerate; yellow and white limey ash. green shale fish bones noted. possibly some micro-fossils.
2375	2380	gray and green shale; yellow, white and tan limey ash. little grayish black speckled altered material.
2380	2400	same as above and with considerable of the altered material.
2400	2405	light green shale; tan and white limey ash. vari-colored volcanic material.
2405	2475	same as above.
2475	2480	vari-colored volcanic agglomerate: tan shale; tan and white ash. gray and black speckled altered sediments.
2480	2490	vari-colored sand and agglomerate; gray green shale.
2490	2500	same as above and considerable tan sandy shale.
2500	2515	same as above.
2515	2520	gray and tan tuffaceous shale and vari-colored volcanic agglomerate.
2520	2525	vari-colored volcanic agglomerate; grayish black speckled altered material.
2525	2530	same as above and green shale.
2530	2550	vari-colored volcanic agglomerate; yellow and white ash.
2550	2555	vari-colored agglomerate with tan brown tuffaceous shale.
2555	2570	same as above.
2570	2580	vari-colored volcanic agglomerate with brown and green shale.
2580	2600	vari-colored agglomerate;brown, tan, and green shale.
2600	2605	vari-colored agglomerate with hard green altered material.
2605	2610	same as above.
2610	2615	same as above and with considerable gray-black speckled material.
2615	2630	same as above.
2630	2635	same as above and altered sediments; little tan and green shale.

2630	2670	vari-colored volcanic agglomerate; grayish black speckled altered material. little tan and green shale.
2670	2675	tan tuffaceous shale and little brown shale.
2675	2680	tan and green tuffaceous shale.
2680	2685	tan tuffaceous shale.
2685	2690	tan tuffaceous shale and green shale; black altered sediments.
2690	2695	tan tuffaceous shale; greenish black altered shale; brown sandy shale with streaks of hydrocarbons.
2695	2700	grayish black altered shale: tan tuffaceous shale.
2700	2705	same as above.
2705	2710	tan tuffaceous shale; green shale: black altered sediments.

2710	2805	tan tuffaceous shale and black altered sediments.
2805	2810	tan tuffaceous shale; dark green shale; black altered sediments.
2810	2815	same as above and white and gray altered material.
2815	2820	tan tuffaceous shale; black altered shale.
2820	2830	tan tuffaceous shale and vari-colored altered material.
2830	2845	same as above.
2845	2850	tan and green tuffaceous shale; black and vari-colored altered material.
2850	2900	same as above.
2900	2905	tan tuffaceous shale; grayish black altered sediments green bentonitic shale.
2905	2910	same as above.
2910	2920	light tan tuffaceous shale; grayish black altered sediments.
2920	2925	same as above.
2925	2930	tan bentonitic shale; soft white lime; black altered sediments.
2930	2935	tan tuffaceous shale with piece of fish bone. few pieces of hydrocarbon.
2935	2940	tan tuffaceous shale; grayish black altered material.
2940	2945	tan tuffaceous shale; little green bentonitic shale little soft lime; grayish black altered sediments.
2945	2950	tan tuffaceous shale; grayish black altered sediments.
2950	2955	tan tuffaceous shale; one piece of hydrcarbon; grayish black altered sediments.
2955	2960	same as above and with pieces of hydrocarbon.
2960	2965	dark brown (oil?) shale; tan tuffaceous shale; black altered sediments.
2965	2970	green bentonitic shale; tan tuffaceous shale; little grayish black altered material.
2970	3005	same as above.
3005	3010	same as above and brown shale with hydrocarbons.
3010	3015	tan tuffaceous shale; little black altered sediments.
3015	3020	same as above.
3020	3025	same as above and gray bentonitic shale.
3025	3030	tan tuffaceous shale; grayish black altered sediments.
3030	3045	same as above.
3045	3050	same as above and dark green reworked shale.

3050	3055	tan tuffaceous shale; grayish black altered sediments. little dark green shale.
3055	3070	same as above.
3070	3090	tan tuffaceous shale; light green bentonitic clay black altered sediments.
3090	3095	same as above and black (oil?) shale.
3095	3100	tan tuffaceous shale; black altered sediments.
3100	3105	tan shale; dark green reworked shale; black altered sediments.
3105	3110	same as above.
3110	3115	tan shale; light green bentonitic shale; vari-colored altered rocks.
3115	3120	same as above but with considerable black altered sediments.

3120	3125	little tan shale; considerable black altered sediments.
3125	3130	same as above.
3130	3190	same as above and vari-colored altered rocks.
3190	3205	black altered sediments. tan shale; yellow altered rock.
3210	3215	green and tan bentonitic shales, black altered rocks.
3215	3220	green and tan shales; with streaks of hydrocarbons.
3220	3275	same as above.
3275	3280	tan tuffaceous shale and black altered sediments.
3280	3315	same as above.
3315	3405	?
3405	3410	gray and tan tuffaceous shale; light green bentonitic clay; considerable grayish black altered material.
3410	3415	gray and tan tuffaceous shale, light green bentonitic clay; grayish black altered material.
3415	3430	same as above and large amount of grayish black altered sediments.
3430	3450	little tan tuffaceous material; considerable grayish black altered material.
3455	3460	tan tuffaceous shale; light green bentonitic clay grayish black altered material.
3465	3470	gray and tan tuffaceous shale; brown shale with hydrocarbons; grayish black altered material.
3475	3480	light green and tan shale; grayish black altered material.
3490	3495	gray-green shale: grayish black altered material; little lime.
3495	3500	gray and tan shale; little lime; light green shale; grayish black altered material.
3505	3510	light green bentonitic shale; grayish black altered material.
3515	3520	same as above.
3525	3530	gray and tan tuffaceous shale: light green shale; grayish black altered material.
3535	3540	light green bentonitic clay; grayish black altered material.
3545	3550	brown shale; light green shale; grayish black altered material.
3555	3560	tan and green tuffaceous shale; grayish black altered material.

3560	3570	brown, tan and green shale; some dry and brittle hydrocarbon.
3575	3580	tan and green shale; grayish black altered material. some hydrocarbons present.
3585	3590	tan and green shale; grayish black altered material black (oil?) shale.
3590	3600	tan tuffaceous shale; green shale; black altered material.
3600	3610	same as above
3615	3620	dark brown shale (hydrocarbons) green and tan shale.
3620	3630	tan and brown shale; little green shale; few pieces of grayish black altered sediments.
3635	3640	green and tan tuffaceous shale; brown shale; black altered sediments.
3640	3650	tan shale; green altered material.
3650	3660	brown and tan shale; black altered material; green altered material.
3660	3665	tan and green shale; grayish black altered material.
3675	3680	green shale; tan shale; black altered material.
3685	3690	green bentonitic shale; black altered material.
3695	3700	tan tuffaceous shale; green shale; black altered material.
3700	3705	green bentonitic shale; grayish black altered material.
3705	3710	gray and tan tuffaceous shale; grayish black altered material.

3715	3720	brown tan and green shale and grayish black altered material.
3720	3730	same as above.
3730	3740	same as above.
3740	3745	grayish tan lava, fine grained and black crystals.
3745	3780	same as above.
3780	3785	same as above and light brown lava.
3785	3815	grayish tan fine grained lava.
3815	3820	hard grayish tan lava and little gray-green shale from above.
3820	3825	hard grayish tan lava and little light green shale with streaks of hydrocarbon; little tan tuffaceous shale from above.
3825	3830	hard grayish tan lava (fine grained) little tan and gray tuffaceous shale from above.
3830	3840	same as above.
3840	3845	grayish tan and black speckled lava: litle green bentonitic shale and sandy shale from above.
3845	3850	grayish tan lava and vari-colored tan and brown altered sediments.
3850	3855	grayish tan lava and vari-colored material derived from lava; one piece of dark brown (oil?) shale; grayish black altered material.
3855	3860	grayish tan and black fine grained lava; tan, gray, and green tuffaceous shale from above.
3855	3860	same as above; circulation sample; few pieces of hydrocarbons.
3865	3870	grayish tan lava, gray and tan tuffaceous shale.
3870	3875	grayish black speckled lava.
3875	3880	same as above.
3880	3885	grayish black lava; green shale from above.

3885	3890	grayish tan and grayish black lava, few pieces of grayish and light green tuffaceous shale from above.
3890	3895	volcanic agglomerate; tan tuffaceous shale; grayish black lava; black altered material.
3895	3900	grayish black lava and tan tuffaceous shale.
3900	3905	brown shale; grayish black lava; grayish black altered material; little bentonitic shale.
3905	3910	altered volcanic material; light green andtan tuffaceous shale.
3910	3915	grayish black lava and altered volcanic material, light green and tan tuffaceous material (shales).
3915	3920	grayish black altered material; dark brown and black hydrocarbons; tan tuffaceous shales.
3920	3925	gray and black volcanic agglomerate; tan shale and some hydrocarbons.
3925	3930	tan shale with streaks of hydrocarbons, pieces of hydrocarbons; grayish black altered material.
3930	3935	dry and brittle hydrocarbon; grayish black altered material, tan sandy shale with hydrocarbons.
3935	3940	grayish black altered material; little light green shale.
3940	3945	grayish black altered material (agglomerate): tan sandy shale.

3945	3950	grayish black altered material with hydrocarbons.
3950	3955	gray sand with hydrocarbon; grayish black altered material: gray sandy shale with streaks of hydrocarbons.
3955	3960	gray tan lava; grayish black altered material; soft tan sandstone with streaks of hydrocarbon.
3960	3965	grayish tan lava; grayish black altered material.
3965	3975	grayish tan fine grained lava.
3975	3980	grayish black lava; grayish black altered material green shale with streaks of hydrocarbon (from above).
3980	3985	gray tan lava.
3985	3990	fine grained grayish tan lava; altered material; gray, black and green shale from above.
3990	3995	hard grayish tan lava; grayish black lava.
3995	4020	grayish black and grayish tan lava.
4020	4025	gray and black altered material: tan tuffaceous shale hydrocarbons in brown shale.
4025	4030	grayish black and grayish white altered material, brown sandstone; grayish tan lava.
4025	4030	circulation sample 40 minutes: gray tan and green shale grayish black and grayish tan lava.
4025	4030	circulation sample 55 minutes; grayish black lava grayish black altered material.
4030	4035	gray, tan and light green tuffaceous shale: grayish black altered material.
4035	4045	cored--hard grayish green altered shales and ash. No shows of oil or gas or hydrocarbons.
4045	4050	brown shale with hydrocarbons; tan sandy shale with hydrocarbons; little grayish black lava from above.

4050	4055	vari-colored altered volcanic agglomerate; brown sandy shale.
4055	4060	tan and green shale; vari-colored altered material; streaks of hydrocarbons in brown sandstone.
4060	4065	streaks of hydrocarbons in brown sandstone; bright red and brick colored altered sediments; vari-colored altered sediments.
4065	4070	vari-colored altered sediments.
4070	4075	brown sandy shale; vari-colored altered sediments.
4075	4080	dark brown shale with streaks of hydrocarbons; grayish black lava; vari-colored altered material.
4080	4085	grayish black lava; vari-colored altered material; brown sandstone.
4085	4090	grayish black lava; brown shale; altered material.
4091		gray black lava; grayish black altered material.
4093		grayish black lava; little tan sandy shale; altered material.
4090	4095	grayish black lava; vari-colored altered material, little brown to tan sandy shale.
4095	4100	tan sandstone; grayish black altered sandstone, grayish black lava.
4100	4105	grayish tan lava; gray and tan sandy shale; grayish black altered sediments.
4105	4110	fine grained gray lava; gray to grayish white altered M.
4110	4115	gray speckled lava; grayish white altered material.
4115	4120	gray lava and grayish white altered material.
4120	4125	brown sand with streaks of hydrocarbons; gray lava grayish white altered sediments.
4125	4130	grayish tan lava; grayish black altered sediments.
4130	4135	grayish tan lava.
4135	4140	gray lava; tan and green shale; vari-colored altered M.
4140	4145	gry lava; green shale; vari-colored altered material.
4145	4150	grayish tan lava; vari-colored altered material.
4150	4155	tan and green shale with hydrocarbon in streaks; altered M.
4155	4160	vari-colored altered material.
4160	4165	little green shale; vari-colored altered material.
4165	4170	same as above.

4170	4175	gray and black altered material.
4175	4180	little green shale; gray to grayish black altered M.
4180	4190	grayish black altered material.
4190	4195	vari-colored altered material, little gray lava.
4195	4200	tan, gray, and green sandy shale; grayish black altered material; gray lava.
4200	4205	gray lava and grayish black altered material.
4205	4210	brown and tan sandy shale, streaks of hydrocarbons grayish black altered sediments few pieces of lava.
4210	4215	little gray tan lava; vari-colored altered material.
4215	4220	tan sandy shale; vari-colored altered material little gray tan lava.
4220	4230	vari-colored altered material.
4230	4235	tan sandy shale with hydrocarbon streaks: vari-colored volcanic material.
4235	4240	grayish black altered material.

4240	4245	tan shale; vari-colored altered material.
4245	4250	green, tan and gray tuffaceous shale; vari-colored altered volcanic material.
4250	4255	green shale with streaks of hydrocarbons; tan shale grayish tan lava; vari-colored altered material.
4255	4260	brown (oil) shale grayish black altered material, few pieces of red to brick colored altered material, little gray tan lava.
4260	4265	vari-colored altered material; one piece of (oil) shale.
4265	4270	one piece of (oil) shale; vari-colored altered volcanic M.
4270	4275	vari-colored altered sediments, little tan shale.
4280	4285	same as above.
4285	4290	gray sandstone; vari-colored altered material; brown sandstone with hydrocarbons.
4290	4295	brown (oil) shale; vari-colored altered sediments.
4295	4315	same as above.
4315	4320	gray tan shale with hydrocarbons; vari-colored altered M, grayish tan fine grained lava.
4320	4330	grayish black and grayish tan lava; black and vari-colored altered rocks.
4330	4335	grayish black fine grained lava and vari-colored altered rocks.
4335	4340	same as above.
4340	4345	same as above.
4345	4350	grayish black fine grained lava and vari-colored altered rocks.
4350	4355	grayish black fine grained lava; grayish black altered sediments; tan and green tuffaceous shale.
4355	4360	grayish black fine grained lava and vari-colored altered M.
4360	4365	same as above but finer pieces and more vari-colored.
4365	4370	same as above.
4370	4375	grayish black fine grained lava and grayish black altered sediments, vari-colored rocks and little bright green sandy shale.
4375	4395	same as above.
4395	4400	grayish black altered sediments, tan and green shale.
4400	4405	grayish black altered sediments; green and tan shale.
4405	4410	tan tuffaceous shale: dark green bentonitic shale; soft gray speckled sand; brown shale; greenish gray altered sediments; formations are softer.
4410	4411	circulation sample 30 minutes; tan to brick colored shale; grayish black altered sediments.
4411	4413	grayish black altered sediments; green and tan shale and some sand.
4413	4415	soft green, gray, and tan shale; greenish tan speckled shale; grayish black altered sediments.
4415	4430	same as above.
4430	4435	same as above and tan shale with hydrocarbons.

4445	4450	soft gray, green and tan shale; greenish tan speckled shale; gray sandy shale.
4450	4455	vari-colored altered sediments; gray, green and tan shale and sand.
4455	4560	same as above.
4560	4565	soft gray, green and tan bentonitic shales.
4565	4570	same as above and brown shale with hydrocarbons.
4570	4580	same as above.
4580	4585	soft gray, green and tan bentonitic shales and streaks of hydrocarbon in tan shales.
4585	4785	same as above.
4785	4790	soft tan shale, grayish green and grayish black altered material; little light green shale and hydrocarbons.
4790	4795	same as above.
4795	4850	same as above but without light green shale.
4850	4855	same as above but shales are less altered; some brown shale with hydrocarbon.
4855	4885	same as above.
4885	4890	soft green bentonitic shales; soft tan tuffaceous shale.
4890	4895	soft green and gray bentonitic shale; tan tuffaceous shale with hydrocarbon.
4895	4925	same as above.
4925	4930	soft brown, gray, green bentonitic shale; soft tan tuffaceous shale; grayish green altered shale.
4930	4975	same as above and gray speckled tuffaceous shale.
4975	5075	same as above but with higher per cent of brown and tan tuffaceous shale.
5075	5145	same as above but with sediments little more altered.
5145	5150	brown, gray and green shales; altered shales, little grayish black lava.
5150	5155	same as above and grayish tan lava.
5155	5160	vari-colored altered shales; little grayish tan hard, fine grained lava.
5160	5185	same as above.
5185	5190	gray, green and tan shales and vari-colored altered shales.
5190	5195	same as above and little grayish tan lava.
5195	5200	gray, tan and green shales; vari-colored altered material grayish tan lava.
5200	5205	grayish tan lava; vari-colored altered material.
5205	5220	same as above.
5225	5230	brown shales with hydrocarbons; tan and green shales; vari-colored altered shales; little grayish tan lava.
5230	5240	vari-colored altered material; grayish tan lava.
5240	5245	vari-colored altered shales; tan shales; grayish tan lava.
5245	5250	vari-colored altered shales; grayish tan lava.
5255	5260	same as above.
5260	5265	grayish pink and grayish tan lava: vari-colored altered M.
5265	5270	same as above.
5270	5275	gray and grayish tan lava: altered sediments.
5275	5280	same as above.
5280	5290	grayish pink and grayish tan lava; vari-colored altered sediments.

5290	5295	grayish pink and grayish tan lava; vari-colored altered sediments.
5335	5340	grayish tan lava; vari-colored altered shales; vari-colored shales.
5345	5350	vari-colored altered material: tan tuffaceous shale with hydrocarbons; grayish tan lava.
5350	5355	tan tuffaceous shale: vari-colored altered material, grayish tan lava; light greenish shale, streaks of hydrocarbon in tan shales.
5355	5360	tan and gray bentonitic shale: vari-colored altered material, grayish tan lava.
5360	5365	light green shale; tan tuffaceous shales with streaks of hydrocarbon; vari-colored altered shales.
5365	5370	tan and brown shale; vari-colored altered shales: tan, gray and green shales.
5370	5375	vari-colored shales, tan and brown shales with hydrocarbons.
5375	5380	same as above and grayish tan lava.
5380	5385	same as above.
5385	5390	vari-colored shales; large pieces of dry and brittle hydrocarbon.
5390	5395	grayish tan lava; cavings from above.
5395	5400	same as above.
5400	5405	vari-colored shales and cavings from above.
5405	5410	vari-colored soft shales.
5410	5415	few pieces of grayish tan lava; vari-colored shales, large pieces of hydrocarbons.
5415	5420	vari-colored shales.
5420	5425	same as above.
5429		special sample. vari-colored shales; grayish tan lava, hydrocarbon streaks in tan shales.
5425	5430	grayish tan to grayish black lava and cutting from above.
5430	5435	hard grayish black to grayish tan lava; hard altered material; shale cavings from above.
5435	5440	hard, fine grained grayish tan lava; vari-colored altered material from above.
5440	5480	same as above.
5480	5485	little grayish tan lava and soft bentonitic shales and altered material.
5485	5490	grayish tan lava from above; tan shales and vari-colored altered material from above.
5490	5495	green, gray, and tan clays: altered material.
5495	5500	gray and tan bentonitic clays; brick colored altered material; grayish tan lava from above.
5500	5505	brick colored altered material: bentonitic clays: grayish tan lava from above.
5505	5510	tan and green bentonitic clays: brick colored altered material: grayish tan lava with black minerals; this from above.
5510	5520	brick colored altered material; green andtan bentonitic clay.
5520	5530	same as above.
5530	5535	grayish tan lava with black mineral specks.

5535	5540	grayish tan lava with shales and altered material from above.
5540	5545	same as above but last foot drilled like shale.
5545		bit sample. soft light green bentonitic clay with high lime content.
5545	5550	tan and brick colored altered material; green bentonitic clay.
5550	5575	same as above.
5575	5580	brick colored altered material: vari-colored altered material; grayish tan lava from above.
5580	5585	same as above.
5585	5600	gray to grayish white altered material high in lime content; vari-colored altered material.
5600	5610	vari-colored altered material.
5610	5620	same as above.
5620	5630	considerable grayish white limey altered material, and vari-colored altered material.
5630	5655	same as above.
5655	5660	hard grayish tan lava with black mineral specks; altered material.
5660	5665	same as above.
5665	5670	soft greenish clay; hard altered material; little grayish lava.
5670	5675	green, tan, brown bentonitic clays; vari-colored altered material; grayish tan lava.
5675	5680	gray, tan and green bentonitic clays; vari-colored altered material.
5680	5700	same as above.
5700	5740	same as above.
5740	5770	same as above.
5770	5775	gray, green and tan bentonitic clay: altered sediments grayish tan lava.
5775	5785	same as above.
5785	5790	grayish tan lava; vari-colored altered sediments, little bentonitic clays.
5790	5800	grayish tan lava.
5800	5805	grayish tan lava and altered material.
5805	5820	same as above but with little bentonitic clay.
5820	5825	gray, tan and green bentonitic clays; vari-colored altered material, little grayish tan lava.
5825	5830	same as above.
5830	5835	grayish tan lava; vari-colored altered material.
5835	5865	same as above.
5865	5870	grayish tan lava and vari-colored altered material.
5870	5890	same as above.
5890	5895	vari-colored altered sediments, bentonitic clays.
5895	5900	vari-colored altered sediments, grayish tan lava.
5900	5905	same as above.
5905	5915	altered sediments; bentonitic clays.
5915	5920	same as above.
5920	5925	vari-colored altered sediments, considerable lime.
5925	5930	tan and brown altered material.
5930	5935	green bentonitic clay; vari-colored altered material, grayish tan lava.

5935	5965	vari-colored altered material.
5965	5970	vari-colored altered material; grayish black lava.
5970	5980	same as above.
5980	5985	vari-colored altered material.
5985	5990	same as above.
5990	5995	gray, tan and green altered sediments.
5995	6000	little grayish black lava, gray, tan and green, altered sediments.
6000	6050	same as above.
6050	6055	altered sediments and grayish tan lava.
6055	6060	same as above.
6060	6065	hard grayish tan to grayish black lava: hard vari-colored altered sediments; bentonitic clays from above.
6065	6070	grayish tan lava and hard altered sediments.
6070	6075	same as above.
6075	6100	grayish tan lava and altered sediments from above.
6100	6105	bentonitic clays; grayish tan lava from above.
6105	6110	gray, tan and green bentonitic clays.
6110	6115	soft tan, green, brown bentonitic clays and some altered M.
6115	6295	same as above.
6295	6300	grayish tan to grayish black lava and altered sediments.
6300	6305	vari-colored bentonitic clays; grayish tan lava from above.
6305	6310	sticky bentonitic clays; vari-colored altered material; grayish tan lava from above.
6310	6315	gray, tan, and green and chocolate colored bentonitic clays, vari-colored altered material.
6315	6335	same as above.
6335	6380	grayish black and grayish green lava.
6380	6385	gray and green bentonitic clays and altered material.
6385	6425	same as above.
6425	6430	grayish tan to grayish green hard sugary lava, bentotonic clays and altered material from above.
6430	6440	grayish black to grayish green lava.
7440	6445	hard grayish black lava and hard grayish green lava or altered material.
6445	6460	grayish black lava; grayish tan lava and altered M.
6460	6465	grayish black lava; grayish lava with green crystals.
6465	6470	grayish black lava; grayish tan lava or altered material with yellow to green crystals.
6470	6480	same as above.

6480 TOTAL DEPTH.

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Continued on page 16.
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page 16 description of samples.

The samples in the Weed & Poteet # 1 well were taken at10' intervals from 430' to 1600' and at 5 ' intervals from 1600' to the total depth. There were a few intervals where lost circulation occurred and no samples were obtained but the Schlumberger log covers these intervals and we can still get some idea of the formations from the Schlumberger log. The samples were all checked by the use of a microscope and a fluorescope for any indications of petroleum. There was a slight fluorescence noted in the samples from 1517' to 1550'. The writer thought at first that there might have been a slight indication of oil at this depth but a later check of the samples taken by Schlumberger did not show any fluorescence or presence of oil or gas. The writer believes now that the fluorescence in the original samples was caused by grease used on the drill pipe threads . There was some material in the samples that the writer thought was hydrocarbon but it it was always dry and brittle. There is excellent agreement between the writers strip log and the Schlumberger log. The high resistivity values on the Schlumberger log were indicated on the strip log as lava beds. This was also checked by the drilling time at these zones. A drilling time log for each 5' interval was kept. The only zone showing high resistivity and high drilling time that was not caused by lava was from 1585 to 1860'. This correlates with very hard grayish white hydrothermally altered sediments. There were no commercial shows of oil or gas in the Weed & Poteet # 1 well.