#### STATE OF OREGON DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES 1069 State Office Building

Portland 1, Oregon

### LOG AND CORE RECORD OF OIL OR GAS WELL (Submit in duplicate)

In compliance with rules and regulations pursuant to ORS 520. 095 (Chapter 667 OL 1953).

Operator_	Standard Oil Company	of California	Field.	Wildca	t TANK UNDA	
Well No	Kirkpatrick #1	, Sec	6 ,	T. 45 , I	21E	W. B. & M.

#### FORMATIONS PENETRATED BY WELL

Dept Top of Formation	h to Bottom of Formation	Thickness	Drilled or Cored	Recovery	Description
urface	24391	24391	Drilled	distributions.	Very hard, dark gray, basalt flows.
24391	32001	761	2.12.67		Vari-colored tuffaceous volcanics.
			2737 - 56	191	
32001	67001	35001	distribution		Tuff, flow & agglomeratic volcanics Focene
			44051-221	17'	
			54091-291	201	
			65421-451	31	
67001	87261	20261	Par Malaine		Thickly interbedded, dark gray silty shales
			68461-561	51	& siliceous tuffs.
			71701-771	71	To E
			76471=531	31	cse
			82201-211	N.R.	
			82681-781	51	
			83851-931	48	and grant to be a first of the state of the same
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STANDARD OIL COMPANY Kirkpatrick No. 1 Sec 6, T 4S, R 21E Gilliam County

## Descriptions Taken from the Graphic Log by VCN;

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	0 - 21501	Very hard, dense, dark gray basalt, with local inter-flow soil zones and some vesicular intervals.
TCT	2150 - 2440'	As above with occasional quartz-filled vesicles.
	2440 - 30501	Tuff, light gray-green, very firm, very clayey, abundant fragments and grains to coarse sand size. No shows.
	3050 - 32301	Tuff, rust red.
TIL	3230 - 36901	Undifferentiated volcanics, yellowish olive with rare lavender mottlings, very hard, brittle, siliceous, microcrystalline.
	3690 - 37601	Tuff, medium gray green, very clayey, with abundant sand size fragments and grains.
	3760 - 39501	Basalt, dark gray-black, sugary texture with red oxidized grains.
	3950 - 39701	Tuff, pink-red, very calcareous.
TC	3970 - 4070 · 4070 ·	Basalt, dark gray, fine to medium crystalline, hard locally vesicular.
	4070 - 44001	Tuff, cream gray to very pale purple and reddish chocolate brown.
	4400 46001	Tuff, light gray-green and occasionally light tan, very clayey and locally very calcareous. Extremely questionable dips 5-10 degrees.
	4600 - 46551	Agglomerate? 20-70% basalt, dark green, hard sugary texture, 80-30% tuff as above.
	4655 - 47001	Tuff, light gray-green and occasionally tan, very clayey and locally very calcareous.
	4700 - 4740 *	Agglomerate? 20-50% basalt, as above.
	4740 - 48301	Agglomerate? 80-50% tuff.
	4830 - 48601	Basalt, medium gray, very hard, finely crystalline to glassy with abundant scattered crystals.
	4860 - 48851	Agglomerate? as above.

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4885 - 49201	Basalt, medium gray, very hard, finely crystalline.
4920 - 49451	Agglomerate? as above.
4945 - 49701	Basalt, medium gray, very hard.
. 4970 - 50051	Agglomerate? as above.
5005 - 54001	Tuff, gray-white, very clayey with abundant sand size grains and fragments.
5400 - 60601	Tuff to tuffaceous claystone, dark brown to dark blue gray and light greenish gray, firm, soapy, local streaks containing sand size fragments, rather crumbly.
6060 - 62001	Siliceous tuff, mottled and streaked light to medium gray, hard, tough, occasional quartz grains.
6200 - 65001	Tuff, white to light greenish-gray.
6500 - 66001	Siliceous tuff? Pale to light green, slightly calcareous, similar to above. Highly contorted.
6600 - 67001	Tuff, white to light pale green, slightly calcareous.
6700 - 6750°	Subgreywacke sandstone, hard, dirty, no apparent permeability or porosity
6750 - 68001	Tuff, white to light pale green.
6800 - 71301	Subgreywacke sandstone, dark peppery gray, very hard, very dirty, angular to rounded silty to medium quartz, chert and rock grains, interbedded with shaley siltstone, dark brown-gray, hard micromicaceous, no fissility.
7130 - 7480'	Shaley siltstone, dark brownish gray, hard, tough, micromicaceous with local shaley partings. Common calcite filled fractures and some minor faulting. Dips of 5 to 10 degrees.
7480 - 76301	Shaley siltstone and sandstone similar to cores above.
7630 - 7940'	Argillitic shale, dark gray, hard, very dense, with hard thin, fine sandstone interbeds. Dips 34-40 degrees.

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7940 - 81701	Shaley siltstone, dark gray, hard pyritic, with thin interbeds of dirty, silty, hard fine grained sandstone.
8170 - 83801	Siliceous tuff, cream white to chalk.
8380 - 85301	Argillitic shale with thin, dirty, fine grained sandstone interbeds.
8530 - 8600'	Siliceous tuff, cream white to chalk.
8600 - 8710'	Argillitic shale with thin fine grained sandstone interbeds.
8710 - 8726' T.D.	Siliceous tuff white to light pale green.

Standard Oil Co of California Kirkpatrick No l  $SW^{\frac{1}{4}}$  Sec 6, T 4S, R 21E Gilliam County

Source rock analyses of samples 7177' - 8393' in this hole indicated that thermal conditions were right for generating petroleum hydrocarbons.

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