

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 STATE DRILLING COMPANY Field HARNEY BASIN
Well No. No. 1 SE 1/4 Sec. 6 T. 24 S R. 33 E W. B. & M.

FORMATIONS PENETRATED BY WELL

Depth to Top of Formation	Bottom of Formation	Thickness	Drilled or Cored	Recovery	Description
CASING RECORD:					
Surface string; wood conductor - 119' of 16"					
Water string; seamless steel - 544' of 10 3/4"					
Water string; seamless steel - 1409' of 8 5/8"					
Drilled with cable tools					
0	7	7	drilled		Sandy top soil
7	10	3	"		Caliche
10	74	64	"		Light blue clay
74	76	2	"		Hard blue shale
76	80	4	"		Hard sandy blue shale with a small amount of sulphur water
80	85	5	"		Soft blue shale
85	90	5	"		Hard black, smooth shale
90	92	2	"		Blue shale
92	99	7	"		Soft sand with greenish sulphur water
99	108	9	"		Medium hard blue shale
108	110	2	"		As above but softer
110	135	25	"		Hard dark blue shale
135	136	1	"		Soft sandy shale, small amount of sulphur water
136	147	11	"		Hard black shale
147	170	23	"		Light blue shale
170	196	26	"		Hard, brittle, black shale, slight gas odor
196	211	15	"		Light blue shale
211	216	5	"		Black shale w/ some quartz grains
216	221	5	"		Blue sticky shale
221	240	19	"		Light blue shale
240	251	11	"		Gray sandstone
251	258	7	"		Gray sandy shale
258	260	2	"		Light blue sandy shale
260	264	4	"		Hard blue lime
264	266	2	"		As above
266	272	6	"		Sand, gray and black
272	273	1	"		Black shale, oil colors
273	277	4	"		Hard gray shale
277	282	5	"		Hard sandstone, contains magnetite

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282	285	3	drilled		Sandy blue shale
285	290	5	"		Dark blue shale
290	302	12	"		Shale as above slightly limy
302	317	15	"		Limestone
317	330	13	"		Dark gray sandstone, green oil colors, little water at the bottom
330	350	20	"		Gray sandy shale
350	363	13	"		Hard dark gray sand
363	366	3	"		As above
366	369	3	"		Sandy shale
369	377	8	"		Gray sand, fairly soft, limy
377	422	45	"		Hard blue shale
422	447	25	"		White limestone, some oil colors
447	459	12	"		Sandy greenish shale, contains some black and brown grains
459	478	19	"		Limestone
478	482	4	"		Green sticky shale
482	485	3	"		Hard dark gray sand
485	487	2	"		Gray limy shale
487	496	9	"		Green shale
496	497	1	"		Diatomite (?)
497	502	5	"		Gray sandy limestone
502	504	2	"		Gray limy shale
504	530	26	"		Sticky blue shale
530	538	8	"		Light gray shale w/ sand grains
538	543	5	"		Greenish-gray, sandy, limy shale
543	550	7	"		Gray limestone
550	556	6	"		Dark gray, med. gr. sand
556	565	9	"		Dark gray shaly sand w/ oil colors
565	570	5	"		Gray hard sandy shale
570	576	6	"		Med. gr. sand, limy
576	581	5	"		Light green, coarse gr., limy sand w/ oil colors
581	586	5	"		Blue sand, oil colors
586	590	4	"		Soft gray limestone
590	594	4	"		Green shale, sulphur water
594	596	2	"		Limestone shell
596	601	5	"		Sand, fine to coarse gr.
601	603	2	"		Sand, coarse, water bearing
603	607	4	"		Gray limestone
607	609	2	"		Gray limy shale
609	615	6	"		Green shale, sandy

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615	616	1	drilled		Green, soumy muck
616	618	2	"		Hard gray lime shell
618	628	10	"		Sand, fine gr., hard with oil colors
628	630	2	"		Coarse sand
630	631	1	"		Lime shell
631	635	4	"		Green muck
635	637	2	"		Very hard gray limestone
637	647	10	"		Greenish gray shale w/ few red stks
647	676	29	"		Very hard medium gray limestone w/ oil showings
676	680	4	"		Greenish shale w/ brown streak at top
680	683	3	"		Coarse grain, loose sand w/ water ?
683	686	3	"		Sticky gray shale
686	692	6	"		Limestone
692	698	6	"		Sandy shale
698	703	5	"		Hard gray shale
703	704	1	"		Gray lime shell
704	713	9	"		Sand, fine grain w/ wax (grease like material)
713	717	4	"		Coarse sand w/ heavy water flow
717	725	8	"		Fine grain sand
725	730	5	"		Gray sandy shale
730	734	4	"		Gray shale, calcareous
734	747	13	"		Limy gray sand w/ cream colored grains
747	757	10	"		Hard, gray, brittle formation ?
757	758	1	"		Hard gray sand
758	767	9	"		Sticky gray shale, last foot sandy
767	780	13	"		Sand, fine gr., loose w/ saltwater
780	787	7	"		Sand, fine gr., hard, white and glassy particles
787	790	3	"		Brownish colored sand
790	795	5	"		Brown sandstone, good oil showings, saturation 15%, 66 gravity.
795	798	3	"		Sand, fine gr., cream, glassy and yellow colored frags.
798	802	4	"		Black sand
802	806	4	"		As above but lighter color
806	814	8	"		Hard white limestone
814	817	3	"		Gray sand

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1110	1111	1	Drilled		Soapstone?
1111	1114	3	"		Gray sand
1114	1118	4	"		Gray shale w/ 6" sand layer at bottom
1118	1136	18	"		Calcareous gray shale
1136	1147	11	"		Slate
1147	1163	16	"		Calcareous, hard, gray shale. Fossil at 1150' (Orstaeus?). Round and about the size of a hazel nut, hard, gray with light colored circles
1163	1173	10	"		Slate colored, hard shale
1173	1175	2	"		Gray shale with white sand grains
1175	1179	4	"		Black sandy shale
1179	1180	1	"		Black oil sand, oil showings.
1180	1185	5	"		Black shale
1185	1189	4	"		Black sand
1189	1210	21	"		Gray, calcareous shale
1210	1212	2	"		Very hard gray lime
1212	1234	22	"		Gray lime
1234	1242	8	"		Hard gray shale
1242	1245	3	"		Hard gray lime
1245	1250	5	"		Black shale
1250	1309	59	"		99' This footage was drilled running a loose line by an "outside" driller during managers absence with no accurate records kept. Dive-in was cleaned out by manager and consisted of sand and shale. Gas and oil showings were strong in this mixture, but formation segregations unknown, as casing had to be lowered while cleaning out (follow-up). This footage had evidence of commercial possibilities.
1309	1317	8	"		Black shale
1317	1326	9	"		Brown shale
1326	1337	11	"		Dark gray calcareous shale
1337	1340	3	"		Mixed colored grains of sandy lime
1340	1342	2	"		As above with thin layer of green shale
1342	1350	8	"		Brownish sandy lime
1350	1357	7	"		Brownish hard, fine grain sand with some thin brown streaks of shale
1357	1359	2	"		Very hard, fine grain, gray sand