

30-025-43033

HOBBS OCD

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SURVEY REPORT

Company: Kaiser-Francis Oil Company

Survey Company: Von Directional

Well: Bell Lake Unit North 230H

Start Date: 12/18/2017

Location: Jal

End Date: 12/30/2017

Rig: Cactus 171

Proposed Direction: 2.94

svy	depth	inc	azm	tvd	ns	ew	vs	dls	temp	gtot	htot	dipa
Tiein	0	0	0	0	0	0	0	0	0	0	0	0
1	158	0.9	348	157.99	1.21	-0.26	1.2	0.57	0	0	0	0
2	220	0.6	336	219.99	1.99	-0.49	1.96	0.54	0	0	0	0
3	282	0.6	298	281.98	2.44	-0.91	2.39	0.63	0	0	0	0
4	355	0.6	297	354.98	2.79	-1.59	2.7	0.01	0	0	0	0
5	415	0.9	301	414.98	3.17	-2.27	3.05	0.51	0	0	0	0
6	500	1.3	303	499.96	4.04	-3.65	3.85	0.47	0	0	0	0
7	509	1.4	300	508.96	4.15	-3.83	3.95	1.36	0	0	0	0
8	603	2.5	295	602.9	5.59	-6.69	5.24	1.18	0	0	0	0
9	649	2.3	292	648.86	6.36	-8.45	5.92	0.51	0	0	0	0
10	684	2.3	292	683.83	6.89	-9.75	6.38	0	0	0	0	0
11	729	2	287	728.8	7.46	-11.34	6.87	0.79	0	0	0	0
12	773	2.1	283	772.77	7.86	-12.86	7.19	0.4	0	0	0	0
13	829	2.3	289	828.73	8.46	-14.92	7.68	0.54	0	0	0	0
14	871	1.8	289	870.71	8.95	-16.34	8.1	1.19	0	0	0	0
15	921	1.8	279	920.68	9.33	-17.86	8.4	0.63	0	0	0	0
16	965	1.5	283	964.66	9.57	-19.11	8.57	0.73	0	0	0	0
17	1058	1.3	286	1057.63	10.13	-21.31	9.02	0.23	0	0	0	0
18	1153	1.4	288	1152.61	10.79	-23.45	9.57	0.12	0	0	0	0
19	1246	1	291	1245.59	11.43	-25.28	10.12	0.44	0	0	0	0
20	1549	1.71	290.07	1548.5	13.93	-32	12.27	0.23	0	0	0	0

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svy	depth	inc	azm	tvd	ns	ew	vs	dls	temp	gtot	htot	dipa
21	1642	0.11	229.76	1641.49	14.35	-33.37	12.61	1.78	0	0	0	0
22	1736	1	124.87	1735.48	13.82	-32.77	12.12	1.1	0	0	0	0
23	1830	0.66	104.58	1829.47	13.21	-31.57	11.58	0.47	0	0	0	0
24	1924	0.63	93.57	1923.47	13.04	-30.53	11.46	0.14	0	0	0	0
25	2018	0.64	86.9	2017.46	13.04	-29.49	11.51	0.08	0	0	0	0
26	2112	0.73	77.92	2111.45	13.19	-28.38	11.72	0.15	0	0	0	0
27	2206	0.79	79.19	2205.45	13.44	-27.16	12.03	0.07	0	0	0	0
28	2300	0.89	77.93	2299.44	13.72	-25.81	12.37	0.11	0	0	0	0
29	2394	1.36	89.88	2393.42	13.87	-23.98	12.62	0.56	0	0	0	0
30	2488	2.4	102.04	2487.37	13.46	-20.94	12.37	1.18	0	0	0	0
31	2582	2.52	91.27	2581.28	13.01	-16.95	12.12	0.51	0	0	0	0
32	2675	2.78	78.48	2674.18	13.41	-12.69	12.74	0.69	0	0	0	0
33	2769	3.25	75.15	2768.05	14.55	-7.88	14.13	0.53	0	0	0	0
34	2863	3.4	71.71	2861.89	16.11	-2.66	15.95	0.27	0	0	0	0
35	2957	2.89	81.5	2955.75	17.33	2.33	17.43	0.79	0	0	0	0
36	3052	3.22	93.66	3050.62	17.52	7.36	17.87	0.76	0	0	0	0
37	3146	3.61	103.83	3144.45	16.64	12.87	17.28	0.76	0	0	0	0
38	3239	3.26	108.17	3237.28	15.11	18.22	16.03	0.47	0	0	0	0
39	3334	4.25	103.21	3332.08	13.47	24.22	14.69	1.1	0	0	0	0
40	3429	4.51	98.26	3426.8	12.13	31.34	13.72	0.48	0	0	0	0
41	3524	4.16	94.85	3521.53	11.3	38.47	13.26	0.46	0	0	0	0

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42	3620	4.35	90.02	3617.27	11	45.58	13.33	0.42	0	0	0	0
43	3715	4.35	85.68	3711.99	11.27	52.78	13.97	0.35	0	0	0	0
44	3809	4.04	84.66	3805.74	11.85	59.63	14.89	0.34	0	0	0	0
45	3905	4.2	81.93	3901.49	12.66	66.48	16.05	0.26	0	0	0	0
46	4000	5.34	77.02	3996.16	14.14	74.23	17.93	1.27	0	0	0	0
47	4095	6.02	75.1	4090.69	16.41	83.35	20.67	0.74	0	0	0	0
48	4190	6.09	91.73	4185.17	17.54	93.2	22.3	1.84	0	0	0	0
49	4285	7.37	98.38	4279.52	16.5	104.27	21.83	1.58	0	0	0	0
50	4379	8.04	91.41	4372.67	15.46	116.8	21.43	1.22	0	0	0	0
51	4474	8.29	95.77	4466.71	14.61	130.26	21.27	0.7	0	0	0	0
52	4568	8.12	100.64	4559.75	12.7	143.53	20.05	0.76	0	0	0	0
53	4663	7.12	97.56	4653.91	10.69	155.96	18.67	1.14	0	0	0	0
54	4758	6.36	98.25	4748.25	9.16	167	17.71	0.8	0	0	0	0
55	4853	5.85	98.06	4842.71	7.73	177	16.79	0.54	0	0	0	0
56	4948	5.2	99.64	4937.27	6.33	186.04	15.86	0.7	0	0	0	0
57	5043	4.4	97.84	5031.93	5.11	193.9	15.05	0.86	0	0	0	0
58	5138	4.45	96.61	5126.65	4.19	201.17	14.5	0.11	0	0	0	0
59	5189	4.41	95.18	5177.5	3.78	205.08	14.3	0.23	0	0	0	0
60	5329	4.24	94.59	5317.1	2.88	215.6	13.94	0.13	0	0	0	0
61	5424	5.69	96.88	5411.74	2.04	223.78	13.51	1.54	0	0	0	0
62	5519	6.95	94.51	5506.16	1.02	234.19	13.03	1.35	0	0	0	0

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63	5615	8.16	90.71	5601.33	0.48	246.79	13.14	1.36	0	0	0	0
64	5710	10.06	91.2	5695.13	0.22	261.83	13.65	2	0	0	0	0
65	5805	11.94	96.1	5788.38	-1	279.9	13.36	2.21	0	0	0	0
66	5905	14.7	88.9	5885.69	-1.85	302.87	13.68	3.22	0	0	0	0
67	5997	14.75	87.81	5974.66	-1.18	326.25	15.55	0.31	0	0	0	0
68	6090	14.48	87.62	6064.65	-0.25	349.7	17.69	0.29	0	0	0	0
69	6185	14.76	87.84	6156.58	0.7	373.66	19.87	0.3	0	0	0	0
70	6280	13.48	81.04	6248.71	2.89	396.69	23.23	2.2	0	0	0	0
71	6375	10.78	75.81	6341.59	6.79	416.24	28.13	3.07	0	0	0	0
72	6470	8.61	81.49	6435.23	10.02	431.89	32.16	2.49	0	0	0	0
73	6565	6.75	84.8	6529.37	11.58	444.49	34.36	2.01	0	0	0	0
74	6660	5.4	84.88	6623.83	12.48	454.5	35.78	1.42	0	0	0	0
75	6755	4.54	91.97	6718.48	12.75	462.71	36.47	1.11	0	0	0	0
76	6850	4.33	112.48	6813.2	11.25	469.78	35.33	1.67	0	0	0	0
77	6945	3.92	126.13	6907.95	7.97	475.72	32.35	1.12	0	0	0	0
78	7040	2.52	120.57	7002.8	4.99	480.14	29.61	1.51	0	0	0	0
79	7134	0.36	139.52	7096.77	3.71	482.11	28.44	2.32	0	0	0	0
80	7230	0.44	140.21	7192.76	3.2	482.54	27.95	0.08	0	0	0	0
81	7325	0.56	156.44	7287.76	2.49	482.96	27.26	0.19	0	0	0	0
82	7419	0.5	152.87	7381.76	1.71	483.33	26.5	0.07	0	0	0	0
83	7513	0.81	158.04	7475.75	0.73	483.77	25.54	0.34	0	0	0	0

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84	7607	0.63	173.01	7569.74	-0.4	484.08	24.43	0.28	0	0	0	0
85	7700	0.57	179.95	7662.74	-1.37	484.14	23.46	0.1	0	0	0	0
86	7794	0.89	186.36	7756.73	-2.57	484.06	22.27	0.35	0	0	0	0
87	7888	0.91	183.99	7850.72	-4.04	483.93	20.79	0.04	0	0	0	0
88	7982	0.8	183.52	7944.71	-5.44	483.83	19.39	0.12	0	0	0	0
89	8076	1.01	198.73	8038.7	-6.87	483.53	17.93	0.34	0	0	0	0
90	8170	0.95	204.84	8132.68	-8.37	482.93	16.41	0.13	0	0	0	0
91	8264	0.99	199.04	8226.67	-9.84	482.34	14.91	0.11	0	0	0	0
92	8358	0.87	213.96	8320.66	-11.2	481.68	13.52	0.29	0	0	0	0
93	8452	1.03	217.38	8414.64	-12.46	480.77	12.21	0.18	0	0	0	0
94	8546	0.94	218.42	8508.63	-13.74	479.78	10.89	0.1	0	0	0	0
95	8640	0.79	218.35	8602.62	-14.85	478.89	9.73	0.16	126.6	1.00027	0.49035	58.3956
96	8734	1.01	220.91	8696.61	-15.99	477.95	8.55	0.24	0	0	0	0
97	8828	0.98	213.61	8790.59	-17.28	476.96	7.2	0.14	0	0	0	0
98	8922	1.07	217.8	8884.58	-18.64	475.98	5.79	0.12	0	0	0	0
99	9016	1.28	216.84	8978.56	-20.18	474.81	4.2	0.22	0	0	0	0
100	9109	1.25	226.85	9071.54	-21.7	473.45	2.61	0.24	0	0	0	0
101	9203	1.07	234.74	9165.52	-22.91	471.98	1.33	0.26	0	0	0	0
102	9298	1.94	232.93	9260.48	-24.39	469.98	-0.26	0.92	0	0	0	0
103	9393	1.91	226.03	9355.43	-26.46	467.55	-2.45	0.25	0	0	0	0
104	9514	6.78	142.08	9476.12	-33.5	470.5	-9.33	5.66	108.9	1.00067	0.48828	60.76923

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105	9577	7.23	141.31	9538.65	-39.53	475.26	-15.1	0.73	112.5	1.00074	0.501	61.51648
106	9675	3.01	97.14	9636.26	-44.67	481.67	-19.91	5.6	110.7	1.00059	0.49341	60.76923
107	9769	8.61	23.45	9729.83	-38.51	486.93	-13.48	8.81	110.7	1.00059	0.49414	60.68132
108	9863	15.99	7.53	9821.64	-19.19	491.43	6.04	8.57	112.5	1.00067	0.4939	60.50549
109	9957	20.87	8.65	9910.79	10.22	495.65	35.63	5.2	114.2	1.00035	0.49512	60.41758
110	10051	29.36	5.91	9995.83	49.77	500.55	75.37	9.11	112.5	1.00035	0.49548	60.1978
111	10145	39.57	2.69	10073.23	102.74	504.34	128.47	11.03	112.5	1.00082	0.49512	59.89011
112	10239	47.87	358.35	10141.12	167.62	504.74	193.28	9.38	114.2	1.00082	0.49487	59.71429
113	10333	57.1	355.94	10198.31	241.99	500.94	267.36	10.03	116	1.00082	0.49365	59.49451
114	10426	67.21	354.25	10241.69	323.81	493.86	348.71	10.99	116	1.00027	0.49292	59.31868
115	10521	76.95	357.16	10270.89	413.83	487.16	438.27	10.66	117.8	1.00059	0.49109	59.14286
116	10615	91.23	355.91	10280.55	506.91	481.51	530.94	15.25	114.2	1.00067	0.4884	59.01099
117	10732	96.18	356.16	10272.99	623.35	473.44	646.81	4.24	121.3	0.99965	0.49109	58.35165
118	10826	94.53	356.16	10264.22	716.73	467.17	739.75	1.76	124.8	0.99957	0.4906	58.35165
119	10920	93.82	356.84	10257.37	810.3	461.45	832.9	1.04	126.6	1.00027	0.49035	58.3956
120	11014	91.71	357.21	10252.84	904.06	456.58	926.29	2.28	126.6	0.99988	0.49121	58.3956
121	11108	91.79	358.92	10249.97	997.96	453.4	1019.9	1.82	128.4	1.0002	0.49121	58.43956
122	11202	91.13	0.63	10247.57	1091.93	453.04	1113.73	1.95	131.9	1.00043	0.49145	58.43956
123	11296	90.67	1.98	10246.1	1185.89	455.18	1207.67	1.52	135.4	1.00082	0.49072	58.3956
124	11390	90.92	2.28	10244.79	1279.81	458.67	1301.65	0.42	135.4	1.0009	0.49072	58.3956
125	11484	90.1	3.1	10243.96	1373.7	463.08	1395.65	1.23	137.2	1.00098	0.49121	58.3956

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126	11579	90.56	3.51	10243.41	1468.54	468.56	1490.64	0.65	137.2	1.00098	0.49121	58.3956
127	11674	89.94	2.3	10243	1563.42	473.37	1585.64	1.43	138.9	0.9998	0.49194	58.3956
128	11768	89.11	2.34	10243.77	1657.34	477.18	1679.63	0.88	140.7	0.9998	0.49219	58.43956
129	11863	89.06	1.42	10245.29	1752.27	480.29	1774.6	0.97	138.9	0.99996	0.49206	58.43956
130	11958	88.05	359.73	10247.69	1847.23	481.25	1869.49	2.07	140.7	1.00098	0.49219	58.48352
131	12053	87.4	359.02	10251.46	1942.15	480.21	1964.23	1.01	142.5	1.0009	0.49231	58.48352
132	12148	87.44	358.06	10255.74	2037.02	477.79	2058.85	1.01	142.5	1.00098	0.49219	58.48352
133	12243	88.51	358.84	10259.09	2131.93	475.23	2153.5	1.39	142.5	1.00043	0.49219	58.43956
134	12337	89.49	359.85	10260.73	2225.91	474.15	2247.29	1.5	146	0.99988	0.49194	58.43956
135	12432	90.11	0.25	10261.06	2320.9	474.23	2342.17	0.78	146	0.99988	0.49182	58.43956
136	12527	90.65	359.29	10260.43	2415.9	473.85	2437.02	1.16	142.5	1.0009	0.49072	58.43956
137	12621	91.63	0.23	10258.56	2509.88	473.46	2530.86	1.44	146	1.00027	0.49072	58.48352
138	12716	92.15	0.51	10255.43	2604.82	474.07	2625.71	0.62	146	1.00027	0.49109	58.43956
139	12810	90.74	358.68	10253.06	2698.79	473.41	2719.51	2.46	146	0.9998	0.49158	58.48352
140	12905	90.56	357.07	10251.98	2793.71	469.89	2814.13	1.71	147.8	1.00035	0.49109	58.48352
141	13000	91.21	357.09	10250.52	2888.58	465.05	2908.63	0.68	149.5	0.99988	0.49145	58.48352
142	13094	92.44	357.42	10247.52	2982.42	460.55	3002.11	1.35	149.5	0.99988	0.49109	58.43956
143	13189	91.16	357.52	10244.54	3077.28	456.36	3096.63	1.35	149.5	1.00059	0.49145	58.43956
144	13284	92.02	357.68	10241.9	3172.16	452.38	3191.18	0.92	151.3	1.00074	0.49084	58.43956
145	13379	90.72	358.39	10239.63	3267.07	449.12	3285.81	1.56	151.3	1.00082	0.49158	58.43956
146	13474	89.61	0.39	10239.36	3362.06	448.11	3380.62	2.41	153.1	1.00035	0.49145	58.43956

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147	13569	90.52	0.93	10239.25	3457.05	449.21	3475.54	1.11	153.1	1.00035	0.49145	58.43956
148	13664	91.7	1.34	10237.41	3552.01	451.09	3570.47	1.31	156.6	0.99973	0.49158	58.43956
149	13759	90.98	0.67	10235.19	3646.97	452.75	3665.39	1.04	154.8	0.99988	0.49158	58.43956
150	13852	90.9	0.01	10233.66	3739.96	453.3	3758.28	0.71	154.8	1.00074	0.4906	58.43956
151	13947	89.29	359.78	10233.5	3834.95	453.13	3853.15	1.71	156.6	1.00051	0.49096	58.52747
152	14042	87.23	358.9	10236.39	3929.9	452.04	3947.91	2.36	158.4	1.00098	0.4917	58.48352
153	14137	88.01	359.54	10240.33	4024.8	450.75	4042.63	1.06	160.1	1.00074	0.49231	58.52747
154	14232	88.47	0.43	10243.25	4119.76	450.72	4137.45	1.05	160.1	1.0002	0.49231	58.52747
155	14326	86.96	358.83	10247	4213.68	450.11	4231.22	2.34	160.1	1.00067	0.49267	58.52747
156	14421	86.78	358.91	10252.19	4308.52	448.24	4325.84	0.21	161.9	1.00098	0.49231	58.52747
157	14515	86.93	358.25	10257.34	4402.34	445.92	4419.42	0.72	161.9	1.0009	0.4917	58.52747
158	14610	88.35	357.5	10261.26	4497.2	442.4	4513.97	1.69	161.9	0.99988	0.49243	58.52747
159	14705	89.33	357.47	10263.18	4592.08	438.23	4608.52	1.03	163.6	1.0009	0.4917	58.48352
160	14800	91.08	357.5	10262.84	4686.99	434.06	4703.08	1.84	161.9	0.99996	0.49182	58.48352
161	14895	91.95	357.57	10260.33	4781.87	429.98	4797.63	0.92	161.9	1.0009	0.4906	58.43956
162	14990	92.58	357.73	10256.57	4876.71	426.09	4892.15	0.68	161.9	1.0009	0.49072	58.3956
163	15085	93.32	357.94	10251.68	4971.52	422.5	4986.64	0.81	161.9	1.0009	0.49096	58.3956
164	15179	92.06	359.56	10247.27	5065.39	420.45	5080.28	2.18	163.6	1.00043	0.49072	58.43956
165	15274	91.37	359.59	10244.43	5160.34	419.75	5175.08	0.73	161.9	0.99996	0.4917	58.48352
166	15369	89.72	359.67	10243.52	5255.33	419.14	5269.91	1.74	163.6	1.00098	0.49145	58.43956
167	15464	90.25	359.65	10243.55	5350.33	418.57	5364.75	0.56	165.4	1.00098	0.49145	58.48352

SURVEY REPORT

Company: Kaiser-Francis Oil Company

Survey Company: Von Directional

Well: Bell Lake Unit North 230H

Start Date: 12/18/2017

Location: Jal

End Date: 12/30/2017

Rig: Cactus 171

Proposed Direction: 2.94

svy	depth	inc	azm	tvd	ns	ew	vs	dls	temp	gtot	htot	dipa
168	15559	91	0.53	10242.51	5445.32	418.72	5459.63	1.22	161.9	1.00059	0.48962	58.79121
169	15654	91.17	0.91	10240.71	5540.3	419.91	5554.54	0.44	163.6	0.99965	0.49035	58.92308
170	15749	91.07	0.55	10238.86	5635.27	421.12	5649.45	0.39	163.6	0.99973	0.49023	58.92308
171	15843	89.12	359.66	10238.7	5729.26	421.3	5743.33	2.28	165.4	1.00184	0.49109	58.79121
172	15938	89	359.69	10240.26	5824.25	420.76	5838.17	0.13	168.9	1.00043	0.49121	58.92308
173	16033	89.09	0.73	10241.84	5919.24	421.11	5933.04	1.1	168.9	1.0016	0.49109	58.83516
174	16128	89.68	1.58	10242.86	6014.21	423.02	6027.99	1.09	170.7	0.99965	0.4906	58.87912
175	16223	89.82	1.43	10243.28	6109.18	425.52	6122.96	0.22	170.7	1.00027	0.49096	58.92308
176	16318	90.05	1.55	10243.39	6204.14	427.99	6217.93	0.27	172.5	1.00176	0.49084	58.83516
177	16413	89.82	0.14	10243.49	6299.13	429.39	6312.86	1.5	172.5	1.00035	0.49084	58.92308
178	16508	90.16	0.21	10243.51	6394.13	429.68	6407.75	0.37	172.5	1.00168	0.49072	58.83516
179	16602	90.1	0.93	10243.3	6488.12	430.61	6501.67	0.77	174.2	0.99973	0.49048	58.96703
180	16696	89.77	1.14	10243.4	6582.11	432.31	6595.62	0.42	176	0.99973	0.4906	58.96703
181	16790	89.29	1.37	10244.17	6676.08	434.37	6689.57	0.57	176	0.99973	0.4906	58.83516
182	16884	88.49	0.9	10246	6770.05	436.23	6783.51	0.99	176	1.01726	0.4906	58.74725
183	16978	88.43	0.03	10248.52	6864.01	436.99	6877.39	0.93	176	1.00121	0.4906	58.87912
184	17073	89.19	359.29	10250.49	6958.98	436.43	6972.21	1.12	174.2	1.00004	0.48974	58.87912
185	17168	90.14	357.75	10251.05	7053.95	433.98	7066.92	1.9	176	0.99957	0.48974	58.96703
186	17262	90.17	357.57	10250.8	7147.87	430.14	7160.52	0.19	176	1.00067	0.49023	58.87912
187	17357	91.05	358.07	10249.78	7242.79	426.53	7255.14	1.07	176	1.00004	0.49048	58.96703
188	17451	90.88	358.16	10248.2	7336.73	423.43	7348.79	0.2	176	1.0002	0.49035	58.96703

SURVEY REPORT

Company: Kaiser-Francis Oil Company

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Start Date: 12/18/2017

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svy	depth	inc	azm	tvd	ns	ew	vs	dls	temp	gtot	htot	dipa
189	17545	91.86	358.77	10245.95	7430.67	420.92	7442.47	1.23	176	1.00106	0.48987	58.83516
190	17639	91.76	359.4	10242.98	7524.61	419.42	7536.21	0.68	176	0.99949	0.48999	58.96703
191	17733	91.9	359.78	10239.98	7618.56	418.74	7630.01	0.43	177.8	0.99957	0.48926	58.87912
192	17827	91.83	359.95	10236.92	7712.51	418.52	7723.82	0.2	176	0.99949	0.48938	58.87912
193	17921	91.79	359.98	10233.95	7806.46	418.46	7817.65	0.05	177.8	1.00043	0.48999	58.92308
194	18016	91.48	0.52	10231.24	7901.42	418.88	7912.5	0.66	177.8	1.00098	0.48962	58.83516
195	18111	91.43	0.82	10228.83	7996.38	419.99	8007.4	0.32	179.5	1.00098	0.48962	58.83516
196	18206	90.86	1.07	10226.93	8091.35	421.56	8102.32	0.66	179.5	1.00098	0.48987	58.87912
PTB	18281	90.86	1.07	10225.81	8166.33	422.96	8177.27	0	0	0	0	0