

	COMPANY	OXY U.S.A		CASING	LINER	TUBING
	WELL NAME	Hawkins Ranch 03-13	SIZE:	4.5		2.375
	FIELD	Brush Creek	WEIGHT:	11.6#		4.7#
	COUNTY	Mesa	GRADE:	I-80		J-55
	STATE	COLORADO	THREAD:	LTC		8rd EUE
	DATE	Wednesday, January 20, 2016	DEPTH:	7175'	EOT w/KB	5734.20'
	ITEM	DESCRIPTION		MAX O.D. INCHES	MAX I.D. INCHES	LENGTH FEET
		K.B.				15'
		7" TBG hanger		7.0625"	1.991"	.68'
		REBUILT Tubing Hanger				
		174ts of Original 2.375 J-55 8rd EUE Tubing		2.375"	1.991"	5522.41'
		Estimated 208 original jts, ecovered 184 jts and a cut piece of 9.5' )				
		6jts of used 2.375 J-55 8rd EUE Tubing from PETROS				194.85'
		(180jts total)				(5717.26')
		TOP PERF				5371'
		Estimated length of fish @ 23jts and a cut piece w/ 2.375 " O.D. @ 21.3' before next collar, estimated fish top of 5571')		2.375"	1.991"	714.45'
		Second Chemical cut w/ Tubing still stuck		2.375"	1.991"	5955'
		Original Chemical Cut w/ Tubing still Stuck		2.375"	1.991"	6057'
		Estimated EOT prior w/ stuck Standing valve inside F-Nipple		2.375"	1.991"	6593'
		F- Nipple 1.81 I.D.		3.0625	1.81"	.86'
		2.375 Notch Collar		3.0625	1.991"	.40'
		BOTTOM PERF				7113'
		Unable to tag fil due to stuck tools inside fish				
		OPEN RATHOLE.				n/a
		P.B.T.D		7127'	EOT w/ K.B.	5734.20'
	PREPARED BY: Jonathan Davis					
	PREPARED FOR: OXY USA		OFFICE: 970-210-8054		CELL PHONE (720)-383-3432	
	<b>ENSIGN WELL SERVICE</b>					
RIG # 340						

	BHA	
1	HANGER	0.73
2	F-NIPPLE	0.85
3	BIT SUB 1.49	1.49
4	BIT .30	0.30
5	L-80 X VAM X-Over	2.26
6		
7		
8		
9		
10		
TOTAL		5.63

CUSTOMER	OXY U.S.A		
WELL	Core Pad 697-09-52A		
DATE	12/26/2009		
COUNTY	Mesa		
STATE	COLORADO		
CO. REP.	Ken McKinney		
	OD	ID	WT/FT
TBG	2.375	1.991	4.7
CSG	4.5	4	11.6
LINER			
LINER TOP		FLUID PPG	8.33
KB 24	17	TBG BPF	0.00385
JTS ON LOC	252	CSG BPF	0.01554
# TALLIED	241	CSG ANN	0.01006
JT AVE	31.63	LINER BPF	0.00000
		LINER ANN	-0.00548

#	JTS IN	JTS OUT	JT LENGTH	TOTAL TUBING	TBG + BHA + KB	TBG VOLUME	CSG ANN VOLUME	STRING WEIGHT	LINER ANN VOLUME	COMMENTS
1	1	251	31.74	31.74	54.37	0.12	0.32	130	-0.30	
2	2	250	31.74	63.48	86.11	0.24	0.64	260	-0.47	
3	3	249	31.74	95.22	117.85	0.37	0.96	391	-0.65	
4	4	248	31.80	127.02	149.65	0.49	1.28	521	-0.82	
5	5	247	31.78	158.80	181.43	0.61	1.60	651	-0.99	
6	6	246	31.71	190.51	213.14	0.73	1.92	782	-1.17	
7	7	245	31.70	222.21	244.84	0.86	2.24	912	-1.34	
8	8	244	31.72	253.93	276.56	0.98	2.56	1042	-1.52	
9	9	243	31.75	285.68	308.31	1.10	2.87	1172	-1.69	
10	10	242	31.75	317.43	340.06	1.22	3.19	1302	-1.86	
Length of 10				317.43						
11	11	241	31.70	349.13	371.76	1.34	3.51	1432	-2.04	
12	12	240	31.74	380.87	403.50	1.47	3.83	1562	-2.21	
13	13	239	31.78	412.65	435.28	1.59	4.15	1693	-2.39	
14	14	238	31.77	444.42	467.05	1.71	4.47	1823	-2.56	
15	15	237	31.74	476.16	498.79	1.83	4.79	1953	-2.73	
16	16	236	31.76	507.92	530.55	1.96	5.11	2084	-2.91	
17	17	235	31.80	539.72	562.35	2.08	5.43	2214	-3.08	
18	18	234	31.75	571.47	594.10	2.20	5.75	2344	-3.26	
19	19	233	31.80	603.27	625.90	2.32	6.07	2475	-3.43	
20	20	232	31.76	635.03	657.66	2.45	6.39	2605	-3.60	
Length of 10				317.60						
21	21	231	31.68	666.71	689.34	2.57	6.71	2735	-3.78	
22	22	230	31.74	698.45	721.08	2.69	7.03	2865	-3.95	
23	23	229	31.77	730.22	752.85	2.81	7.35	2996	-4.13	
24	24	228	31.78	762.00	784.63	2.93	7.67	3126	-4.30	
25	25	227	31.72	793.72	816.35	3.06	7.99	3256	-4.47	
26	26	226	31.75	825.47	848.10	3.18	8.31	3386	-4.65	
27	27	225	31.72	857.19	879.82	3.30	8.63	3516	-4.82	
28	28	224	31.80	888.99	911.62	3.42	8.95	3647	-5.00	

#	JTS IN	JTS OUT	JT LENGTH	TOTAL TUBING	TBG + BHA + KB	TBG VOLUME	CSG ANN VOLUME	STRING WEIGHT	LINER ANN VOLUME	COMMENTS
29	29	223	31.72	920.71	943.34	3.55	9.27	3777	-5.17	
30	30	222	31.75	952.46	975.09	3.67	9.58	3907	-5.34	
Length of 10				317.43						
31	31	221	31.80	984.26	1006.89	3.79	9.90	4038	-5.52	
32	32	220	31.75	1016.01	1038.64	3.91	10.22	4168	-5.69	
33	33	219	31.80	1047.81	1070.44	4.03	10.54	4298	-5.87	
34	34	218	31.73	1079.54	1102.17	4.16	10.86	4429	-6.04	
35	35	217	31.76	1111.30	1133.93	4.28	11.18	4559	-6.21	
36	36	216	31.78	1143.08	1165.71	4.40	11.50	4689	-6.39	
37	37	215	31.42	1174.50	1197.13	4.52	11.82	4818	-6.56	
38	38	214	31.72	1206.22	1228.85	4.64	12.14	4948	-6.73	
39	39	213	31.74	1237.96	1260.59	4.77	12.46	5078	-6.91	
40	40	212	31.65	1269.61	1292.24	4.89	12.78	5208	-7.08	
Length of 10				317.15						
41	41	211	31.72	1301.33	1323.96	5.01	13.10	5338	-7.25	
42	42	210	31.75	1333.08	1355.71	5.13	13.41	5469	-7.43	
43	43	209	31.78	1364.86	1387.49	5.26	13.73	5599	-7.60	
44	44	208	31.74	1396.60	1419.23	5.38	14.05	5729	-7.78	
45	45	207	31.70	1428.30	1450.93	5.50	14.37	5859	-7.95	
46	46	206	31.75	1460.05	1482.68	5.62	14.69	5990	-8.12	
47	47	205	31.78	1491.83	1514.46	5.74	15.01	6120	-8.30	
48	48	204	31.10	1522.93	1545.56	5.86	15.33	6247	-8.47	
49	49	203	31.78	1554.71	1577.34	5.99	15.65	6378	-8.64	
50	50	202	31.70	1586.41	1609.04	6.11	15.96	6508	-8.82	
Length of 10				316.80						
51	51	201	31.78	1618.19	1640.82	6.23	16.28	6638	-8.99	
52	52	200	31.75	1649.94	1672.57	6.35	16.60	6769	-9.16	
53	53	199	31.72	1681.66	1704.29	6.48	16.92	6899	-9.34	
54	54	198	31.75	1713.41	1736.04	6.60	17.24	7029	-9.51	
55	55	197	31.70	1745.11	1767.74	6.72	17.56	7159	-9.69	
56	56	196	31.78	1776.89	1799.52	6.84	17.88	7289	-9.86	
57	57	195	31.75	1808.64	1831.27	6.96	18.20	7420	-10.03	
58	58	194	31.77	1840.41	1863.04	7.09	18.52	7550	-10.21	
59	59	193	31.70	1872.11	1894.74	7.21	18.84	7680	-10.38	
60	60	192	31.75	1903.86	1926.49	7.33	19.16	7810	-10.56	
Length of 10				317.45						
61	61	191	31.78	1935.64	1958.27	7.45	19.48	7941	-10.73	
62	62	190	31.73	1967.37	1990.00	7.58	19.80	8071	-10.90	
63	63	189	31.72	1999.09	2021.72	7.70	20.12	8201	-11.08	
64	64	188	31.72	2030.81	2053.44	7.82	20.44	8331	-11.25	
65	65	187	31.73	2062.54	2085.17	7.94	20.76	8461	-11.43	
66	66	186	31.74	2094.28	2116.91	8.06	21.07	8591	-11.60	
67	67	185	31.78	2126.06	2148.69	8.19	21.39	8722	-11.77	

#	JTS IN	JTS OUT	JT LENGTH	TOTAL TUBING	TBG + BHA + KB	TBG VOLUME	CSG ANN VOLUME	STRING WEIGHT	LINER ANN VOLUME	COMMENTS
68	68	184	30.75	2156.81	2179.44	8.31	21.70	8848	-11.94	
69	69	183	31.72	2188.53	2211.16	8.43	22.02	8978	-12.12	
70	70	182	31.70	2220.23	2242.86	8.55	22.34	9108	-12.29	
Length of 10				316.37						
71	71	181	31.75	2251.98	2274.61	8.67	22.66	9238	-12.46	
72	72	180	31.76	2283.74	2306.37	8.79	22.98	9369	-12.64	
73	73	179	31.78	2315.52	2338.15	8.92	23.30	9499	-12.81	
74	74	178	31.77	2347.29	2369.92	9.04	23.62	9629	-12.99	
75	75	177	31.78	2379.07	2401.70	9.16	23.94	9760	-13.16	
76	76	176	31.55	2410.62	2433.25	9.28	24.26	9889	-13.33	
77	77	175	31.80	2442.42	2465.05	9.41	24.58	10019	-13.51	
78	78	174	31.75	2474.17	2496.80	9.53	24.90	10150	-13.68	
79	79	173	31.77	2505.94	2528.57	9.65	25.22	10280	-13.85	
80	80	172	31.75	2537.69	2560.32	9.77	25.54	10410	-14.03	
Length of 10				317.46						
81	81	171	31.77	2569.46	2592.09	9.89	25.86	10541	-14.20	
82	82	170	31.75	2601.21	2623.84	10.02	26.18	10671	-14.38	
83	83	169	31.75	2632.96	2655.59	10.14	26.50	10801	-14.55	
84	84	168	31.78	2664.74	2687.37	10.26	26.82	10931	-14.72	
85	85	167	31.77	2696.51	2719.14	10.38	27.14	11062	-14.90	
86	86	166	31.76	2728.27	2750.90	10.51	27.45	11192	-15.07	
87	87	165	31.71	2759.98	2782.61	10.63	27.77	11322	-15.25	
88	88	164	31.76	2791.74	2814.37	10.75	28.09	11452	-15.42	
89	89	163	31.75	2823.49	2846.12	10.87	28.41	11583	-15.59	
90	90	162	31.78	2855.27	2877.90	11.00	28.73	11713	-15.77	
Length of 10				317.58						
91	91	161	31.75	2887.02	2909.65	11.12	29.05	11843	-15.94	
92	92	160	31.75	2918.77	2941.40	11.24	29.37	11974	-16.12	
93	93	159	31.76	2950.53	2973.16	11.36	29.69	12104	-16.29	
94	94	158	31.75	2982.28	3004.91	11.48	30.01	12234	-16.46	
95	95	157	31.76	3014.04	3036.67	11.61	30.33	12364	-16.64	
96	96	156	31.78	3045.82	3068.45	11.73	30.65	12495	-16.81	
97	97	155	31.77	3077.59	3100.22	11.85	30.97	12625	-16.99	
98	98	154	31.73	3109.32	3131.95	11.97	31.29	12755	-17.16	
99	99	153	31.76	3141.08	3163.71	12.10	31.61	12886	-17.33	
100	100	152	31.78	3172.86	3195.49	12.22	31.93	13016	-17.51	
Length of 10				317.59						
101	101	151	31.55	3204.41	3227.04	12.34	32.25	13145	-17.68	
102	102	150	31.78	3236.19	3258.82	12.46	32.57	13276	-17.86	
103	103	149	31.78	3267.97	3290.60	12.58	32.89	13406	-18.03	
104	104	148	31.75	3299.72	3322.35	12.71	33.21	13536	-18.20	
105	105	147	31.74	3331.46	3354.09	12.83	33.52	13667	-18.38	
106	106	146	31.76	3363.22	3385.85	12.95	33.84	13797	-18.55	

#	JTS IN	JTS OUT	JT LENGTH	TOTAL TUBING	TBG + BHA + KB	TBG VOLUME	CSG ANN VOLUME	STRING WEIGHT	LINER ANN VOLUME	COMMENTS
107	107	145	31.71	3394.93	3417.56	13.07	34.16	13927	-18.73	
108	108	144	31.71	3426.64	3449.27	13.20	34.48	14057	-18.90	
109	109	143	31.76	3458.40	3481.03	13.32	34.80	14187	-19.07	
110	110	142	31.72	3490.12	3512.75	13.44	35.12	14317	-19.25	
Length of 10				317.26						
111	111	141	31.77	3521.89	3544.52	13.56	35.44	14448	-19.42	
112	112	140	31.76	3553.65	3576.28	13.68	35.76	14578	-19.60	
113	113	139	31.76	3585.41	3608.04	13.81	36.08	14708	-19.77	
114	114	138	31.76	3617.17	3639.80	13.93	36.40	14839	-19.94	
115	115	137	31.75	3648.92	3671.55	14.05	36.72	14969	-20.12	
116	116	136	31.77	3680.69	3703.32	14.17	37.04	15099	-20.29	
117	117	135	31.77	3712.46	3735.09	14.30	37.36	15230	-20.47	
118	118	134	31.76	3744.22	3766.85	14.42	37.68	15360	-20.64	
119	119	133	31.74	3775.96	3798.59	14.54	38.00	15490	-20.81	
120	120	132	30.73	3806.69	3829.32	14.66	38.31	15616	-20.98	
Length of 10				316.57						
121	121	131	31.75	3838.44	3861.07	14.78	38.63	15746	-21.16	
122	122	130	31.73	3870.17	3892.80	14.90	38.95	15877	-21.33	
123	123	129	31.57	3901.74	3924.37	15.03	39.26	16006	-21.50	
124	124	128	31.77	3933.51	3956.14	15.15	39.58	16136	-21.68	
125	125	127	31.76	3965.27	3987.90	15.27	39.90	16267	-21.85	
126	126	126	31.76	3997.03	4019.66	15.39	40.22	16397	-22.02	
127	127	125	31.75	4028.78	4051.41	15.51	40.54	16527	-22.20	
128	128	124	31.79	4060.57	4083.20	15.64	40.86	16658	-22.37	
129	129	123	31.75	4092.32	4114.95	15.76	41.18	16788	-22.55	
130	130	122	30.40	4122.72	4145.35	15.88	41.49	16913	-22.71	
Length of 10				316.03						
131	131	121	31.75	4154.47	4177.10	16.00	41.81	17043	-22.89	
132	132	120	31.77	4186.24	4208.87	16.12	42.13	17173	-23.06	
133	133	119	31.75	4217.99	4240.62	16.24	42.45	17303	-23.24	
134	134	118	31.75	4249.74	4272.37	16.37	42.77	17434	-23.41	
135	135	117	31.78	4281.52	4304.15	16.49	43.09	17564	-23.58	
136	136	116	31.72	4313.24	4335.87	16.61	43.40	17694	-23.76	
137	137	115	31.78	4345.02	4367.65	16.73	43.72	17824	-23.93	
138	138	114	31.73	4376.75	4399.38	16.85	44.04	17955	-24.11	
139	139	113	31.76	4408.51	4431.14	16.98	44.36	18085	-24.28	
140	140	112	31.76	4440.27	4462.90	17.10	44.68	18215	-24.45	
Length of 10				317.55						
141	141	111	31.74	4472.01	4494.64	17.22	45.00	18345	-24.63	
142	142	110	31.80	4503.81	4526.44	17.34	45.32	18476	-24.80	
143	143	109	31.76	4535.57	4558.20	17.47	45.64	18606	-24.98	
144	144	108	31.72	4567.29	4589.92	17.59	45.96	18736	-25.15	
145	145	107	31.76	4599.05	4621.68	17.71	46.28	18867	-25.32	

#	JTS IN	JTS OUT	JT LENGTH	TOTAL TUBING	TBG + BHA + KB	TBG VOLUME	CSG ANN VOLUME	STRING WEIGHT	LINER ANN VOLUME	COMMENTS
146	146	106	31.73	4630.78	4653.41	17.83	46.60	18997	-25.50	
147	147	105	31.75	4662.53	4685.16	17.95	46.92	19127	-25.67	
148	148	104	31.75	4694.28	4716.91	18.08	47.24	19257	-25.85	
149	149	103	31.80	4726.08	4748.71	18.20	47.56	19388	-26.02	
150	150	102	31.78	4757.86	4780.49	18.32	47.88	19518	-26.19	
Length of 10				317.59						
151	151	101	29.80	4787.66	4810.29	18.44	48.18	19640	-26.36	
152	152	100	31.80	4819.46	4842.09	18.56	48.50	19771	-26.53	
153	153	99	31.75	4851.21	4873.84	18.68	48.82	19901	-26.71	
154	154	98	31.55	4882.76	4905.39	18.80	49.14	20030	-26.88	
155	155	97	31.57	4914.33	4936.96	18.92	49.45	20160	-27.05	
156	156	96	31.58	4945.91	4968.54	19.05	49.77	20289	-27.22	
157	157	95	31.57	4977.48	5000.11	19.17	50.09	20419	-27.40	
158	158	94	31.52	5009.00	5031.63	19.29	50.41	20548	-27.57	
159	159	93	31.55	5040.55	5063.18	19.41	50.72	20678	-27.74	
160	160	92	31.55	5072.10	5094.73	19.53	51.04	20807	-27.92	
Length of 10				314.24						
161	161	91	31.57	5103.67	5126.30	19.65	51.36	20937	-28.09	
162	162	90	31.51	5135.18	5157.81	19.77	51.68	21066	-28.26	
163	163	89	31.55	5166.73	5189.36	19.90	51.99	21195	-28.43	
164	164	88	31.48	5198.21	5220.84	20.02	52.31	21324	-28.61	
165	165	87	31.56	5229.77	5252.40	20.14	52.63	21454	-28.78	
166	166	86	31.58	5261.35	5283.98	20.26	52.95	21584	-28.95	
167	167	85	31.55	5292.90	5315.53	20.38	53.26	21713	-29.13	
168	168	84	31.58	5324.48	5347.11	20.50	53.58	21842	-29.30	
169	169	83	31.55	5356.03	5378.66	20.63	53.90	21972	-29.47	
170	170	82	31.52	5387.55	5410.18	20.75	54.22	22101	-29.64	
Length of 10				315.45						
171	171	81	31.53	5419.08	5441.71	20.87	54.53	22231	-29.82	
172	172	80	31.52	5450.60	5473.23	20.99	54.85	22360	-29.99	
173	173	79	31.55	5482.15	5504.78	21.11	55.17	22489	-30.16	
174	174	78	31.56	5513.71	5536.34	21.23	55.48	22619	-30.34	
175	175	77	31.56	5545.27	5567.90	21.35	55.80	22748	-30.51	
176	176	76	31.55	5576.82	5599.45	21.48	56.12	22878	-30.68	
177	177	75	31.55	5608.37	5631.00	21.60	56.44	23007	-30.85	
178	178	74	31.56	5639.93	5662.56	21.72	56.76	23137	-31.03	
179	179	73	31.56	5671.49	5694.12	21.84	57.07	23266	-31.20	
180	180	72	31.53	5703.02	5725.65	21.96	57.39	23395	-31.37	
Length of 10				315.47						
181	181	71	31.53	5734.55	5757.18	22.08	57.71	23525	-31.55	
182	182	70	31.54	5766.09	5788.72	22.20	58.02	23654	-31.72	
183	183	69	31.46	5797.55	5820.18	22.33	58.34	23783	-31.89	
184	184	68	29.95	5827.50	5850.13	22.44	58.64	23906	-32.05	

#	JTS IN	JTS OUT	JT LENGTH	TOTAL TUBING	TBG + BHA + KB	TBG VOLUME	CSG ANN VOLUME	STRING WEIGHT	LINER ANN VOLUME	COMMENTS
185	185	67	31.56	5859.06	5881.69	22.56	58.96	24035	-32.23	
186	186	66	31.52	5890.58	5913.21	22.68	59.28	24165	-32.40	
187	187	65	31.55	5922.13	5944.76	22.81	59.59	24294	-32.57	
188	188	64	31.52	5953.65	5976.28	22.93	59.91	24424	-32.75	
189	189	63	31.56	5985.21	6007.84	23.05	60.23	24553	-32.92	
190	190	62	31.58	6016.79	6039.42	23.17	60.55	24683	-33.09	
Length of 10				313.77						
191	191	61	31.60	6048.39	6071.02	23.29	60.87	24812	-33.26	
192	192	60	31.58	6079.97	6102.60	23.41	61.18	24942	-33.44	
193	193	59	31.46	6111.43	6134.06	23.53	61.50	25071	-33.61	
194	194	58	31.56	6142.99	6165.62	23.66	61.82	25200	-33.78	
195	195	57	31.55	6174.54	6197.17	23.78	62.13	25330	-33.96	
196	196	56	31.55	6206.09	6228.72	23.90	62.45	25459	-34.13	
197	197	55	31.56	6237.65	6260.28	24.02	62.77	25589	-34.30	
198	198	54	31.57	6269.22	6291.85	24.14	63.09	25718	-34.47	
199	199	53	31.53	6300.75	6323.38	24.26	63.41	25847	-34.65	
200	200	52	31.53	6332.28	6354.91	24.38	63.72	25977	-34.82	
Length of 10				315.49						
201	201	51	31.58	6363.86	6386.49	24.51	64.04	26106	-34.99	
202	202	50	31.55	6395.41	6418.04	24.63	64.36	26236	-35.17	
203	203	49	31.58	6426.99	6449.62	24.75	64.68	26365	-35.34	
204	204	48	31.53	6458.52	6481.15	24.87	64.99	26495	-35.51	
205	205	47	31.50	6490.02	6512.65	24.99	65.31	26624	-35.68	
206	206	46	31.52	6521.54	6544.17	25.11	65.63	26753	-35.86	
207	207	45	31.56	6553.10	6575.73	25.24	65.94	26883	-36.03	
208	208	44	31.50	6584.60	6607.23	25.36	66.26	27012	-36.20	
209	209	43	31.52	6616.12	6638.75	25.48	66.58	27141	-36.38	
210	210	42	31.56	6647.68	6670.31	25.60	66.90	27271	-36.55	
Length of 10				315.40						
211	211	41	31.55	6679.23	6701.86	25.72	67.21	27400	-36.72	
212	212	40	31.52	6710.75	6733.38	25.84	67.53	27529	-36.89	
213	213	39	31.52	6742.27	6764.90	25.96	67.85	27659	-37.07	
214	214	38	31.56	6773.83	6796.46	26.09	68.17	27788	-37.24	
215	215	37	31.55	6805.38	6828.01	26.21	68.48	27918	-37.41	
216	216	36	31.55	6836.93	6859.56	26.33	68.80	28047	-37.59	
217	217	35	31.53	6868.46	6891.09	26.45	69.12	28176	-37.76	
218	218	34	31.56	6900.02	6922.65	26.57	69.44	28306	-37.93	
219	219	33	31.50	6931.52	6954.15	26.69	69.75	28435	-38.10	
220	220	32	31.52	6963.04	6985.67	26.81	70.07	28564	-38.28	
Length of 10				315.36						
221	221	31	31.58	6994.62	7017.25	26.94	70.39	28694	-38.45	
222	222	30	31.51	7026.13	7048.76	27.06	70.70	28823	-38.62	
223	223	29	31.52	7057.65	7080.28	27.18	71.02	28952	-38.80	



#	JTS IN	JTS OUT	JT LENGTH	TOTAL TUBING	TBG + BHA + KB	TBG VOLUME	CSG ANN VOLUME	STRING WEIGHT	LINER ANN VOLUME	COMMENTS
224	224	28	31.55	7089.20	7111.83	27.30	71.34	29082	-38.97	
225	225	27	31.51	7120.71	7143.34	27.42	71.66	29211	-39.14	
226	226	26	31.55	7152.26	7174.89	27.54	71.97	29341	-39.31	
227	227	25	31.52	7183.78	7206.41	27.66	72.29	29470	-39.49	
228	228	24	31.55	7215.33	7237.96	27.79	72.61	29599	-39.66	
229	229	23	31.57	7246.90	7269.53	27.91	72.93	29729	-39.83	
230	230	22	31.53	7278.43	7301.06	28.03	73.24	29858	-40.00	
Length of 10				315.39						
231	231	21	31.52	7309.95	7332.58	28.15	73.56	29987	-40.18	
232	232	20	31.52	7341.47	7364.10	28.27	73.88	30117	-40.35	
233	233	19	31.54	7373.01	7395.64	28.39	74.20	30246	-40.52	
234	234	18	31.50	7404.51	7427.14	28.51	74.51	30375	-40.70	
235	235	17	31.52	7436.03	7458.66	28.64	74.83	30505	-40.87	
236	236	16	31.55	7467.58	7490.21	28.76	75.15	30634	-41.04	
237	237	15	31.52	7499.10	7521.73	28.88	75.46	30763	-41.21	
238	238	14	31.53	7530.63	7553.26	29.00	75.78	30893	-41.39	
239	239	13	31.56	7562.19	7584.82	29.12	76.10	31022	-41.56	
240	240	12	31.57	7593.76	7616.39	29.24	76.42	31152	-41.73	
Length of 10				315.33						
241	241	11	31.56	7625.32	7647.95	29.36	76.73	31281	-41.91	
242	242	10	31.55	7656.87	7679.50	29.49	77.05	31411	-42.08	
243	243	9	31.52	7688.39	7711.02	29.61	77.37	31540	-42.25	
244	244	8	31.53	7719.92	7742.55	29.73	77.69	31669	-42.42	
245	245	7	31.56	7751.48	7774.11	29.85	78.00	31799	-42.60	
246	246	6	31.50	7782.98	7805.61	29.97	78.32	31928	-42.77	
247	247	5	31.60	7814.58	7837.21	30.09	78.64	32058	-42.94	
248	248	4	29.95	7844.53	7867.16	30.21	78.94	32180	-43.11	
249	249	3	31.54	7876.07	7898.70	30.33	79.26	32310	-43.28	
250	250	2	31.53	7907.60	7930.23	30.45	79.57	32439	-43.45	
Length of 10				313.84						
251	251	1	31.55	7939.15	7961.78	30.57	79.89	32569	-43.63	
252	252	0	31.53	7970.68	7993.31	30.69	80.21	32698	-43.80	
253	253	-1	31.54	8002.22	8024.85	30.82	80.53	32827	-43.97	
Length of 10				94.62						



[illegible]

#	JTS IN	JTS OUT	JT LENGTH	TOTAL TUBING	TBG + BHA + KB	TBG VOLUME	CSG ANN VOLUME	STRING WEIGHT	LINER ANN VOLUME	COMMENTS
Length of 10				0.00						
Length of 10				0.00						
Length of 10				0.00						
Length of 10				0.00						

[illegible]

[illegible]

#	JTS IN	JTS OUT	JT LENGTH	TOTAL TUBING	TBG + BHA + KB	TBG VOLUME	CSG ANN VOLUME	STRING WEIGHT	LINER ANN VOLUME	COMMENTS
Length of 10				0.00						
Length of 10				0.00						
Length of 10				0.00						
Length of 10				0.00						
Length of 10				0.00						