



Baker Oil Tools

Casing Information		
7" 26# J-55		
Burst=	9,960	psi
Collapse=	6,230	psi
Capacity=	0.03826	bbls/ft

Liner Information		
4-1/2" 11.60# HCP-110		
Burst=	10,690	psi
Collapse=	7,580	psi
Capacity=	0.01554	bbls/ft

S-3 LINER TOP	TVD
6,983.99	7,559.52
Casing Shoe	KOP
7,886.00	7,090.00

Displacements	BBLS	GALS
Liner Top	267.21	11,223
3.625" SLV	283.46	11,905
3.500" SLV	286.92	12,051
3.375" SLV	290.45	12,199
3.250" SLV	294.57	12,372
3.125" SLV	298.02	12,517
3.000" SLV	302.15	12,690
2.875" SLV	305.67	12,838
2.750" SLV	309.19	12,986
2.625" SLV	313.27	13,157

Displacements	BBLS	GALS
2.500" SLV	316.74	13,303
2.438" SLV	320.90	13,478
2.375" SLV	324.35	13,623
2.313" SLV	327.88	13,771
2.250" SLV	332.08	13,947
2.188" SLV	335.61	14,096
2.125" SLV	338.98	14,237
2.063" SLV	343.03	14,407
2.000+P" SLV	346.80	14,566
BALL SEAT	346.87	14,569
Float Shoe	347.42	14,592

Length of Zone - FT			
Zone 1	175.91	Zone 10	258.58
Zone 2	244.83	Zone 11	226.50
Zone 3	221.81	Zone 12	266.60
Zone 4	262.50	Zone 13	222.87
Zone 5	227.57	Zone 14	222.09
Zone 6	227.18	Zone 15	267.69
Zone 7	265.54	Zone 16	224.37
Zone 8	224.22	Zone 17	224.07
Zone 9	229.87	Zone 18	229.23

Dimensional Information			
Component	OD	ID	dim
S-3	5.875	3.875	in
RE Packers	5.687	4.000	in
Sleeves	5.625	Ball Seat	in



Baker Oil Tools



Bill Barrett Corporation

TD	Float Shoe
12,158.00	12,145.48

Packer #19	Packer #18	Packer #17	Packer #16	Packer #15	Packer #14	Packer #13	Packer #12	Packer #11	Packer #10	Packer #9	Packer #8	Packer #7	Packer #6	Packer #5	Packer #4	Packer #3	Packer #2	Packer #1	SV Collar
7,801.09	7,936.57	8,165.80	8,389.87	8,614.24	8,881.93	9,104.02	9,326.89	9,593.49	9,819.99	10,078.57	10,308.44	10,532.66	10,798.20	11,025.38	11,252.95	11,515.45	11,737.26	11,982.09	2,111.87

Sleeve Shift PSI:
Max Rate Thru Sleeve:

7.5.1-1F4 Frac-Point Space Out Diagram





Baker Oil Tools

TALLY SHEET

CUSTOMER	Bill Barrett
WELL NAME	State of CO N 1S-66-36-0108BH
DATE	2/25/2014
SERVICE REP	Bryan Meador/ Calvin Turnbaugh

			OPENHOLE TD		12,158.00	COMMENTS:
Item #	Joint #	DESCRIPTION:	LENGTH:	ACC. LENGTH	DEPTH	
					12,148.00	
1	DVS	DV FLOAT SHOE	2.52	2.52	12,145.48	
2	1	JT 4.5" 11.6# LTC	32.64	35.16	12,112.84	1
3	SVC	SV FLOAT COLLAR	0.97	36.13	12,111.87	
4	BSS	SOLID BALL SEAT SUB - 1.250" BALL	1.34	37.47	12,110.53	
5	PUP	11.6# P-110 LTC	2.05	39.52	12,108.48	
6	S1	P Sleeve	2.71	42.23	12,105.77	
7	S2	2.000" FRAC-SLEEVE	2.42	44.65	12,103.35	
8	PUP	11.6# P-110 LTC	6.04	50.69	12,097.31	
9	2	JT 4.5" 11.6# LTC	36.77	87.46	12,060.54	1
10	3	JT 4.5" 11.6# LTC	35.85	123.31	12,024.69	2
11	4	JT 4.5" 11.6# LTC	36.37	159.68	11,988.32	3
12	X	PUP 4.5" 11.6# P-110 LTC	2.40	162.08	11,985.92	
13	P1	RE PACKER #1	7.67	169.75	11,978.25	CENTER OF PACKER: 11,982.09
14	X	PUP 4.5" 11.6# P-110 LTC	4.16	173.91	11,974.09	
15	5	JT 4.5" 11.6# LTC	36.25	210.16	11,937.84	1
16	6	JT 4.5" 11.6# LTC	35.99	246.15	11,901.85	2
17	7	JT 4.5" 11.6# LTC	36.00	282.15	11,865.85	3
18	S3	2.063" FRAC-SLEEVE	2.40	284.55	11,863.45	
19	8	JT 4.5" 11.6# LTC	36.33	320.88	11,827.12	1
20	9	JT 4.5" 11.6# LTC	42.98	363.86	11,784.14	2
21	10	JT 4.5" 11.6# LTC	40.64	404.50	11,743.50	3
22	X	PUP 4.5" 11.6# P-110 LTC	2.41	406.91	11,741.09	
23	P2	RE PACKER #2	7.67	414.58	11,733.42	CENTER OF PACKER: 11,737.26
24	X	PUP 4.5" 11.6# P-110 LTC	4.17	418.75	11,729.25	
25	11	JT 4.5" 11.6# LTC	40.90	459.65	11,688.35	1
26	12	JT 4.5" 11.6# LTC	42.72	502.37	11,645.63	2
27	13	JT 4.5" 11.6# LTC	40.59	542.96	11,605.04	3
28	S4	2.125" FRAC-SLEEVE	2.40	545.36	11,602.64	
29	14	JT 4.5" 11.6# LTC	40.58	585.94	11,562.06	1
30	15	JT 4.5" 11.6# LTC	40.36	626.30	11,521.70	2
31	X	PUP 4.5" 11.6# P-110 LTC	2.42	628.72	11,519.28	
32	P3	RE PACKER #3	7.67	636.39	11,511.61	CENTER OF PACKER: 11,515.45
33	X	PUP 4.5" 11.6# P-110 LTC	4.16	640.55	11,507.45	
34	16	JT 4.5" 11.6# LTC	39.05	679.60	11,468.40	1
35	17	JT 4.5" 11.6# LTC	37.71	717.31	11,430.69	2
36	18	JT 4.5" 11.6# LTC	42.68	759.99	11,388.01	3
37	S5	2.188" FRAC-SLEEVE	2.40	762.39	11,385.61	
38	19	JT 4.5" 11.6# LTC	43.05	805.44	11,342.56	1
39	20	JT 4.5" 11.6# LTC	43.05	848.49	11,299.51	2
40	21	JT 4.5" 11.6# LTC	40.32	888.81	11,259.19	3
41	X	PUP 4.5" 11.6# P-110 LTC	2.41	891.22	11,256.78	
42	P4	RE PACKER #4	7.67	898.89	11,249.11	CENTER OF PACKER: 11,252.95
43	X	PUP 4.5" 11.6# P-110 LTC	4.16	903.05	11,244.95	
44	22	JT 4.5" 11.6# LTC	43.19	946.24	11,201.76	1
45	23	JT 4.5" 11.6# LTC	40.63	986.87	11,161.13	2
46	S6	2.250" FRAC-SLEEVE	2.40	989.27	11,158.73	
47	24	JT 4.5" 11.6# LTC	43.26	1,032.53	11,115.47	1
48	25	JT 4.5" 11.6# LTC	43.40	1,075.93	11,072.07	2
49	26	JT 4.5" 11.6# LTC	40.43	1,116.36	11,031.64	3
50	X	PUP 4.5" 11.6# P-110 LTC	2.42	1,118.78	11,029.22	
51	P5	REPACKER #5	7.68	1,126.46	11,021.54	CENTER OF PACKER: 11,025.38
52	X	PUP 4.5" 11.6# P-110 LTC	4.14	1,130.60	11,017.40	
53	27	JT 4.5" 11.6# LTC	40.44	1,171.04	10,976.96	1
54	28	JT 4.5" 11.6# LTC	43.30	1,214.34	10,933.66	2



Baker Oil Tools

TALLY SHEET

CUSTOMER	Bill Barrett
WELL NAME	State of CO N 1S-66-36-0108BH
DATE	2/25/2014
SERVICE REP	Bryan Meador/ Calvin Turnbaugh

			OPENHOLE TD		12,158.00	COMMENTS:
Item #	Joint #	DESCRIPTION:	LENGTH:	ACC. LENGTH	DEPTH 12,148.00	
55	29	JT 4.5" 11.6# LTC	43.24	1,257.58	10,890.42	3
56	S7	2.313" FRAC-SLEEVE	2.40	1,259.98	10,888.02	
57	30	JT 4.5" 11.6# LTC	43.12	1,303.10	10,844.90	1
58	31	JT 4.5" 11.6# LTC	40.46	1,343.56	10,804.44	2
59	X	PUP 4.5" 11.6# P-110 LTC	2.40	1,345.96	10,802.04	
60	P6	RE PACKER #6	7.68	1,353.64	10,794.36	CENTER OF PACKER: 10,798.20
61	X	PUP 4.5" 11.6# P-110 LTC	4.15	1,357.79	10,790.21	
62	32	JT 4.5" 11.6# LTC	43.37	1,401.16	10,746.84	1
63	33	JT 4.5" 11.6# LTC	40.57	1,441.73	10,706.27	2
64	34	JT 4.5" 11.6# LTC	42.77	1,484.50	10,663.50	3
65	S8	2.375" FRAC-SLEEVE	2.40	1,486.90	10,661.10	
66	35	JT 4.5" 11.6# LTC	40.69	1,527.59	10,620.41	1
67	36	JT 4.5" 11.6# LTC	40.85	1,568.44	10,579.56	2
68	37	JT 4.5" 11.6# LTC	40.64	1,609.08	10,538.92	3
69	X	PUP 4.5" 11.6# P-110 LTC	2.42	1,611.50	10,536.50	
70	P7	RE PACKER #7	7.69	1,619.19	10,528.81	CENTER OF PACKER: 10,532.66
71	X	PUP 4.5" 11.6# P-110 LTC	4.13	1,623.32	10,524.68	
72	38	JT 4.5" 11.6# LTC	40.19	1,663.51	10,484.49	1
73	39	JT 4.5" 11.6# LTC	43.27	1,706.78	10,441.22	2
74	S9	2.438" FRAC-SLEEVE	2.40	1,709.18	10,438.82	
75	40	JT 4.5" 11.6# LTC	40.52	1,749.70	10,398.30	1
76	41	JT 4.5" 11.6# LTC	43.25	1,792.95	10,355.05	2
77	42	JT 4.5" 11.6# LTC	40.35	1,833.30	10,314.70	3
78	X	PUP 4.5" 11.6# P-110 LTC	2.43	1,835.73	10,312.27	
79	P8	RE PACKER #8	7.67	1,843.40	10,304.60	CENTER OF PACKER: 10,308.44
80	X	PUP 4.5" 11.6# P-110 LTC	4.13	1,847.53	10,300.47	
81	43	JT 4.5" 11.6# LTC	42.68	1,890.21	10,257.79	1
82	44	JT 4.5" 11.6# LTC	40.87	1,931.08	10,216.92	2
83	45	JT 4.5" 11.6# LTC	43.28	1,974.36	10,173.64	3
84	S10	2.500" FRAC-SLEEVE	2.40	1,976.76	10,171.24	
85	46	JT 4.5" 11.6# LTC	43.19	2,019.95	10,128.05	1
86	47	JT 4.5" 11.6# LTC	43.24	2,063.19	10,084.81	2
87	X	PUP 4.5" 11.6# P-110 LTC	2.41	2,065.60	10,082.40	
88	P9	RE PACKER #9	7.67	2,073.27	10,074.73	CENTER OF PACKER: 10,078.57
89	X	PUP 4.5" 11.6# P-110 LTC	4.15	2,077.42	10,070.58	
90	48	JT 4.5" 11.6# LTC	36.18	2,113.60	10,034.40	1
91	49	JT 4.5" 11.6# LTC	43.33	2,156.93	9,991.07	2
92	50	JT 4.5" 11.6# LTC	40.65	2,197.58	9,950.42	3
93	S11	2.625" FRAC-SLEEVE	2.40	2,199.98	9,948.02	
94	51	JT 4.5" 11.6# LTC	40.44	2,240.42	9,907.58	1
95	52	JT 4.5" 11.6# LTC	40.75	2,281.17	9,866.83	2
96	53	JT 4.5" 11.6# LTC	40.60	2,321.77	9,826.23	3
97	X	PUP 4.5" 11.6# P-110 LTC	2.40	2,324.17	9,823.83	
98	P10	RE PACKER #10	7.68	2,331.85	9,816.15	CENTER OF PACKER: 9,819.99
99	X	PUP 4.5" 11.6# P-110 LTC	4.14	2,335.99	9,812.01	
100	54	JT 4.5" 11.6# LTC	42.76	2,378.75	9,769.25	1
101	55	JT 4.5" 11.6# LTC	40.51	2,419.26	9,728.74	2
102	56	JT 4.5" 11.6# LTC	40.53	2,459.79	9,688.21	3
103	S12	2.750" FRAC-SLEEVE	2.40	2,462.19	9,685.81	
104	57	JT 4.5" 11.6# LTC	43.22	2,505.41	9,642.59	1
105	58	JT 4.5" 11.6# LTC	42.85	2,548.26	9,599.74	2
106	X	PUP 4.5" 11.6# P-110 LTC	2.42	2,550.68	9,597.32	
107	P11	RE PACKER #11	7.66	2,558.34	9,589.66	CENTER OF PACKER: 9,593.49
108	X	PUP 4.5" 11.6# P-110 LTC	4.16	2,562.50	9,585.50	



Baker Oil Tools

TALLY SHEET

CUSTOMER	Bill Barrett
WELL NAME	State of CO N 1S-66-36-0108BH
DATE	2/25/2014
SERVICE REP	Bryan Meador/ Calvin Turnbaugh

			OPENHOLE TD		12,158.00	COMMENTS:
Item #	Joint #	DESCRIPTION:	LENGTH:	ACC. LENGTH	DEPTH 12,148.00	
109	59	JT 4.5" 11.6# LTC	40.34	2,602.84	9,545.16	1
110	60	JT 4.5" 11.6# LTC	40.30	2,643.14	9,504.86	2
111	61	JT 4.5" 11.6# LTC	43.17	2,686.31	9,461.69	3
112	S13	2.875" FRAC-SLEEVE	2.40	2,688.71	9,459.29	
113	62	JT 4.5" 11.6# LTC	43.25	2,731.96	9,416.04	1
114	63	JT 4.5" 11.6# LTC	40.50	2,772.46	9,375.54	2
115	64	JT 4.5" 11.6# LTC	42.38	2,814.84	9,333.16	3
116	X	PUP 4.5" 11.6# P-110 LTC	2.46	2,817.30	9,330.70	
117	P12	RE PACKER #12	7.63	2,824.93	9,323.07	CENTER OF PACKER: 9,326.89
118	X	PUP 4.5" 11.6# P-110 LTC	4.14	2,829.07	9,318.93	
119	65	JT 4.5" 11.6# LTC	40.38	2,869.45	9,278.55	1
120	66	JT 4.5" 11.6# LTC	43.55	2,913.00	9,235.00	2
121	S14	3.000" FRAC-SLEEVE	2.40	2,915.40	9,232.60	
122	67	JT 4.5" 11.6# LTC	43.33	2,958.73	9,189.27	1
123	68	JT 4.5" 11.6# LTC	40.55	2,999.28	9,148.72	2
124	69	JT 4.5" 11.6# LTC	38.46	3,037.74	9,110.26	3
125	X	PUP 4.5" 11.6# P-110 LTC	2.41	3,040.15	9,107.85	
126	P13	RE PACKER #13	7.66	3,047.81	9,100.19	CENTER OF PACKER: 9,104.02
127	X	PUP 4.5" 11.6# P-110 LTC	4.14	3,051.95	9,096.05	
128	70	JT 4.5" 11.6# LTC	40.60	3,092.55	9,055.45	1
129	71	JT 4.5" 11.6# LTC	43.26	3,135.81	9,012.19	2
130	72	JT 4.5" 11.6# LTC	43.31	3,179.12	8,968.88	3
131	S15	3.125" FRAC-SLEEVE	2.40	3,181.52	8,966.48	
132	73	JT 4.5" 11.6# LTC	37.98	3,219.50	8,928.50	1
133	74	JT 4.5" 11.6# LTC	40.34	3,259.84	8,888.16	2
134	X	PUP 4.5" 11.6# P-110 LTC	2.40	3,262.24	8,885.76	
135	P14	RE PACKER #14	7.67	3,269.91	8,878.09	CENTER OF PACKER: 8,881.93
136	X	PUP 4.5" 11.6# P-110 LTC	4.16	3,274.07	8,873.93	
137	75	JT 4.5" 11.6# LTC	43.07	3,317.14	8,830.86	1
138	76	JT 4.5" 11.6# LTC	43.23	3,360.37	8,787.63	2
139	77	JT 4.5" 11.6# LTC	40.52	3,400.89	8,747.11	3
140	S16	3.250" FRAC-SLEEVE	2.40	3,403.29	8,744.71	
141	78	JT 4.5" 11.6# LTC	43.33	3,446.62	8,701.38	1
142	79	JT 4.5" 11.6# LTC	40.61	3,487.23	8,660.77	2
143	80	JT 4.5" 11.6# LTC	40.29	3,527.52	8,620.48	3
144	X	PUP 4.5" 11.6# P-110 LTC	2.41	3,529.93	8,618.07	
145	P15	RE PACKER #15	7.66	3,537.59	8,610.41	CENTER OF PACKER: 8,614.24
146	X	PUP 4.5" 11.6# P-110 LTC	4.16	3,541.75	8,606.25	
147	81	JT 4.5" 11.6# LTC	40.38	3,582.13	8,565.87	1
148	82	JT 4.5" 11.6# LTC	40.54	3,622.67	8,525.33	2
149	83	JT 4.5" 11.6# LTC	43.15	3,665.82	8,482.18	3
150	S17	3.375" FRAC-SLEEVE	2.40	3,668.22	8,479.78	
151	84	JT 4.5" 11.6# LTC	40.36	3,708.58	8,439.42	1
152	85	JT 4.5" 11.6# LTC	43.20	3,751.78	8,396.22	2
153	X	PUP 4.5" 11.6# P-110 LTC	2.41	3,754.19	8,393.81	
154	P16	RE PACKER #16	7.69	3,761.88	8,386.12	CENTER OF PACKER: 8,389.97
155	X	PUP 4.5" 11.6# P-110 LTC	4.12	3,766.00	8,382.00	
156	86	JT 4.5" 11.6# LTC	43.30	3,809.30	8,338.70	1
157	87	JT 4.5" 11.6# LTC	43.15	3,852.45	8,295.55	2
158	88	JT 4.5" 11.6# LTC	40.50	3,892.95	8,255.05	3
159	S18	3.500" FRAC-SLEEVE	2.40	3,895.35	8,252.65	
160	89	JT 4.5" 11.6# LTC	40.21	3,935.56	8,212.44	1
161	90	JT 4.5" 11.6# LTC	40.39	3,975.95	8,172.05	2
162	X	PUP 4.5" 11.6# P-110 LTC	2.41	3,978.36	8,169.64	



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TALLY SHEET

CUSTOMER	Bill Barrett
WELL NAME	State of CO N 1S-66-36-0108BH
DATE	2/25/2014
SERVICE REP	Bryan Meador/ Calvin Turnbaugh

			OPENHOLE TD		12,158.00	COMMENTS:
Item #	Joint #	DESCRIPTION:	LENGTH:	ACC. LENGTH	DEPTH 12,148.00	
163	P17	RE PACKER #17	7.68	3,986.04	8,161.96	CENTER OF PACKER: 8,165.80
164	X	PUP 4.5" 11.6# P-110 LTC	4.14	3,990.18	8,157.82	
165	91	JT 4.5" 11.6# LTC	42.84	4,033.02	8,114.98	1
166	92	JT 4.5" 11.6# LTC	43.33	4,076.35	8,071.65	2
167	93	JT 4.5" 11.6# LTC	39.67	4,116.02	8,031.98	3
168	S19	3.625" FRAC-SLEEVE	2.40	4,118.42	8,029.58	
169	94	JT 4.5" 11.6# LTC	43.23	4,161.65	7,986.35	1
170	95	JT 4.5" 11.6# LTC	43.52	4,205.17	7,942.83	2
171	X	PUP 4.5" 11.6# P-110 LTC	2.43	4,207.60	7,940.40	
172	P18	RE PACKER #18	7.67	4,215.27	7,932.73	CENTER OF PACKER: 7,936.57
173	X	PUP 4.5" 11.6# P-110 LTC	4.13	4,219.40	7,928.60	
174	96	JT 4.5" 11.6# LTC	40.48	4,259.88	7,888.12	7" SHOE 7886'
175	97	JT 4.5" 11.6# LTC	40.40	4,300.28	7,847.72	2
176	98	JT 4.5" 11.6# LTC	40.38	4,340.66	7,807.34	3
177	X	PUP 4.5" 11.6# P-110 LTC	2.41	4,343.07	7,804.93	
178	P19	RE PACKER #19	7.68	4,350.75	7,797.25	CENTER OF PACKER: 7,801.09
179	X	PUP 4.5" 11.6# P-110 LTC	4.14	4,354.89	7,793.11	
180	99	JT 4.5" 11.6# LTC	39.50	4,394.39	7,753.61	
181	100	JT 4.5" 11.6# LTC	42.67	4,437.06	7,710.94	
182	101	JT 4.5" 11.6# LTC	43.21	4,480.27	7,667.73	
183	102	JT 4.5" 11.6# LTC	43.40	4,523.67	7,624.33	
184	103	JT 4.5" 11.6# LTC	43.48	4,567.15	7,580.85	
185	104	JT 4.5" 11.6# LTC	40.51	4,607.66	7,540.34	
186	105	JT 4.5" 11.6# LTC	43.23	4,650.89	7,497.11	
187	106	JT 4.5" 11.6# LTC	43.09	4,693.98	7,454.02	
188	107	JT 4.5" 11.6# LTC	40.66	4,734.64	7,413.36	
189	108	JT 4.5" 11.6# LTC	40.31	4,774.95	7,373.05	
190	109	JT 4.5" 11.6# LTC	40.75	4,815.70	7,332.30	
191	110	JT 4.5" 11.6# LTC	42.59	4,858.29	7,289.71	
192	111	JT 4.5" 11.6# LTC	40.52	4,898.81	7,249.19	
193	112	JT 4.5" 11.6# LTC	43.20	4,942.01	7,205.99	
194	113	JT 4.5" 11.6# LTC	42.95	4,984.96	7,163.04	
195	114	JT 4.5" 11.6# LTC	42.59	5,027.55	7,120.45	KOP 7090'
196	115	JT 4.5" 11.6# LTC	40.70	5,068.25	7,079.75	
197	116	JT 4.5" 11.6# LTC	39.29	5,107.54	7,040.46	
198	117	JT 4.5" 11.6# LTC	40.37	5,147.91	7,000.09	
199	PUP	4.5" 11.6# PUP LTC	5.46	5,153.37	6,994.63	
200	XOVER	LOWER PBR XOVER	2.01	5,155.38	6,992.62	
201	S3	S-3 CASING PACKER	4.63	5,160.01	6,987.99	
202	RC	RC SETTING SLEEVE	4.00	5,164.01	6,983.99	TOL 6983.99
203	S/U	DP STICKUP - 3-1/2 IF	10.50	5,174.51	6,973.49	
204	B/S	BUMPER SUB	15.53	5,190.04	6,957.96	
205	x	4" 28.4# XT-39 HWDP	30.9	5,220.94	6,927.06	
206	xx	4" 28.4# XT-39 HWDP	30.98	5,251.92	6,896.08	
207	1	4" 28.4# XT-39 HWDP	29.77	5,281.69	6,866.31	
208	x	4" 28.4# XT-39 HWDP	31.31	5,313.00	6,835.00	
209	xx	4" 28.4# XT-39 HWDP	30.95	5,343.95	6,804.05	
210	2	4" 28.4# XT-39 HWDP	31.28	5,375.23	6,772.77	
211	x	4" 28.4# XT-39 HWDP	31.23	5,406.46	6,741.54	
212	xx	4" 28.4# XT-39 HWDP	30.39	5,436.85	6,711.15	
213	3	4" 28.4# XT-39 HWDP	31.32	5,468.17	6,679.83	
214	x	4" 28.4# XT-39 HWDP	30.77	5,498.94	6,649.06	
215	xx	4" 28.4# XT-39 HWDP	31.08	5,530.02	6,617.98	
216	4	4" 28.4# XT-39 HWDP	31.29	5,561.31	6,586.69	



Baker Oil Tools

TALLY SHEET

CUSTOMER	Bill Barrett
WELL NAME	State of CO N 1S-66-36-0108BH
DATE	2/25/2014
SERVICE REP	Bryan Meador/ Calvin Turnbaugh

			OPENHOLE TD		12,158.00	COMMENTS:
Item #	Joint #	DESCRIPTION:	LENGTH:	ACC. LENGTH	DEPTH 12,148.00	
217	x	4" 28.4# XT-39 HWDP	29.71	5,591.02	6,556.98	
218	xx	4" 28.4# XT-39 HWDP	31.35	5,622.37	6,525.63	
219	5	4" 28.4# XT-39 HWDP	30.67	5,653.04	6,494.96	
220	x	4" 28.4# XT-39 HWDP	30.7	5,683.74	6,464.26	
221	xx	4" 28.4# XT-39 HWDP	31.18	5,714.92	6,433.08	
222	6	4" 28.4# XT-39 HWDP	30.35	5,745.27	6,402.73	
223	x	4" 28.4# XT-39 HWDP	30.76	5,776.03	6,371.97	
224	xx	4" 28.4# XT-39 HWDP	31.31	5,807.34	6,340.66	
225	7	4" 28.4# XT-39 HWDP	30.17	5,837.51	6,310.49	
226	x	4" 28.4# XT-39 HWDP	30.56	5,868.07	6,279.93	
227	xx	4" 28.4# XT-39 HWDP	30.68	5,898.75	6,249.25	
228	8	4" 28.4# XT-39 HWDP	30.67	5,929.42	6,218.58	
229	x	4" 28.4# XT-39 HWDP	31.24	5,960.66	6,187.34	
230	xx	4" 28.4# XT-39 HWDP	30.68	5,991.34	6,156.66	
231	9	4" 28.4# XT-39 HWDP	31.18	6,022.52	6,125.48	
232	x	4" 28.4# XT-39 HWDP	30.87	6,053.39	6,094.61	
233	xx	4" 28.4# XT-39 HWDP	30.66	6,084.05	6,063.95	
234	10	4" 28.4# XT-39 HWDP	30.69	6,114.74	6,033.26	
235	x	4" 28.4# XT-39 HWDP	30.39	6,145.13	6,002.87	
236	xx	4" 28.4# XT-39 HWDP	31.28	6,176.41	5,971.59	
237	11	4" 28.4# XT-39 HWDP	31.31	6,207.72	5,940.28	
238	x	4" 28.4# XT-39 HWDP	30.64	6,238.36	5,909.64	
239	xx	4" 28.4# XT-39 HWDP	30.65	6,269.01	5,878.99	
240	12	4" 28.4# XT-39 HWDP	31.34	6,300.35	5,847.65	
241	x	4" 28.4# XT-39 HWDP	30.71	6,331.06	5,816.94	
242	xx	4" 28.4# XT-39 HWDP	31.05	6,362.11	5,785.89	
243	13	4" 28.4# XT-39 HWDP	31.34	6,393.45	5,754.55	
244	x	4" 28.4# XT-39 HWDP	30.48	6,423.93	5,724.07	
245	xx	4" 28.4# XT-39 HWDP	30.67	6,454.60	5,693.40	
246	14	4" 28.4# XT-39 HWDP	31.16	6,485.76	5,662.24	
247	x	4" 28.4# XT-39 HWDP	31.22	6,516.98	5,631.02	
248	xx	4" 28.4# XT-39 HWDP	31.27	6,548.25	5,599.75	
249	15	4" 28.4# XT-39 HWDP	29.89	6,578.14	5,569.86	
250	x	4" 15.7# XT-39 DP	31.83	6,609.97	5,538.03	
251	xx	4" 15.7# XT-39 DP	32.2	6,642.17	5,505.83	
252	1	4" 15.7# XT-39 DP	31.32	6,673.49	5,474.51	
253	x	4" 15.7# XT-39 DP	32.02	6,705.51	5,442.49	
254	xx	4" 15.7# XT-39 DP	30.19	6,735.70	5,412.30	
255	2	4" 15.7# XT-39 DP	32.18	6,767.88	5,380.12	
256	x	4" 15.7# XT-39 DP	31.76	6,799.64	5,348.36	
257	xx	4" 15.7# XT-39 DP	31.54	6,831.18	5,316.82	
258	3	4" 15.7# XT-39 DP	32.12	6,863.30	5,284.70	
259	x	4" 15.7# XT-39 DP	32.07	6,895.37	5,252.63	
260	xx	4" 15.7# XT-39 DP	31.4	6,926.77	5,221.23	
261	4	4" 15.7# XT-39 DP	31.55	6,958.32	5,189.68	
262	x	4" 15.7# XT-39 DP	32.32	6,990.64	5,157.36	
263	xx	4" 15.7# XT-39 DP	32.1	7,022.74	5,125.26	
264	5	4" 15.7# XT-39 DP	31.88	7,054.62	5,093.38	
265	x	4" 15.7# XT-39 DP	32.37	7,086.99	5,061.01	
266	xx	4" 15.7# XT-39 DP	31.57	7,118.56	5,029.44	
267	6	4" 15.7# XT-39 DP	32.29	7,150.85	4,997.15	
268	x	4" 15.7# XT-39 DP	31.5	7,182.35	4,965.65	
269	xx	4" 15.7# XT-39 DP	31.38	7,213.73	4,934.27	
270	7	4" 15.7# XT-39 DP	31.76	7,245.49	4,902.51	



Baker Oil Tools

TALLY SHEET

CUSTOMER	Bill Barrett
WELL NAME	State of CO N 1S-66-36-0108BH
DATE	2/25/2014
SERVICE REP	Bryan Meador/ Calvin Turnbaugh

			OPENHOLE TD		12,158.00	COMMENTS:
Item #	Joint #	DESCRIPTION:	LENGTH:	ACC. LENGTH	DEPTH 12,148.00	
271	x	4" 15.7# XT-39 DP	31.84	7,277.33	4,870.67	
272	xx	4" 15.7# XT-39 DP	32.07	7,309.40	4,838.60	
273	8	4" 15.7# XT-39 DP	31.9	7,341.30	4,806.70	
274	x	4" 15.7# XT-39 DP	32.62	7,373.92	4,774.08	
275	xx	4" 15.7# XT-39 DP	31.85	7,405.77	4,742.23	
276	9	4" 15.7# XT-39 DP	31.79	7,437.56	4,710.44	
277	x	4" 15.7# XT-39 DP	32.63	7,470.19	4,677.81	
278	xx	4" 15.7# XT-39 DP	31.81	7,502.00	4,646.00	
279	10	4" 15.7# XT-39 DP	31.82	7,533.82	4,614.18	
280	x	4" 15.7# XT-39 DP	31.76	7,565.58	4,582.42	
281	xx	4" 15.7# XT-39 DP	32.04	7,597.62	4,550.38	
282	11	4" 15.7# XT-39 DP	32.25	7,629.87	4,518.13	
283	x	4" 15.7# XT-39 DP	31.84	7,661.71	4,486.29	
284	xx	4" 15.7# XT-39 DP	32.36	7,694.07	4,453.93	
285	12	4" 15.7# XT-39 DP	31.82	7,725.89	4,422.11	
286	x	4" 15.7# XT-39 DP	31.38	7,757.27	4,390.73	
287	xx	4" 15.7# XT-39 DP	31.67	7,788.94	4,359.06	
288	13	4" 15.7# XT-39 DP	31.81	7,820.75	4,327.25	
289	x	4" 15.7# XT-39 DP	31.83	7,852.58	4,295.42	
290	xx	4" 15.7# XT-39 DP	32.21	7,884.79	4,263.21	
291	14	4" 15.7# XT-39 DP	31.78	7,916.57	4,231.43	
292	x	4" 15.7# XT-39 DP	31.85	7,948.42	4,199.58	
293	xx	4" 15.7# XT-39 DP	32.25	7,980.67	4,167.33	
294	15	4" 15.7# XT-39 DP	31.7	8,012.37	4,135.63	
295	x	4" 15.7# XT-39 DP	31.39	8,043.76	4,104.24	
296	xx	4" 15.7# XT-39 DP	32.13	8,075.89	4,072.11	
297	16	4" 15.7# XT-39 DP	31.75	8,107.64	4,040.36	
298	x	4" 15.7# XT-39 DP	31.78	8,139.42	4,008.58	
299	xx	4" 15.7# XT-39 DP	32.36	8,171.78	3,976.22	
300	17	4" 15.7# XT-39 DP	31.57	8,203.35	3,944.65	
301	x	4" 15.7# XT-39 DP	32.25	8,235.60	3,912.40	
302	xx	4" 15.7# XT-39 DP	31.69	8,267.29	3,880.71	
303	18	4" 15.7# XT-39 DP	31.92	8,299.21	3,848.79	
304	x	4" 15.7# XT-39 DP	31.54	8,330.75	3,817.25	
305	xx	4" 15.7# XT-39 DP	32.24	8,362.99	3,785.01	
306	19	4" 15.7# XT-39 DP	31.96	8,394.95	3,753.05	
307	x	4" 15.7# XT-39 DP	31.76	8,426.71	3,721.29	
308	xx	4" 15.7# XT-39 DP	31.68	8,458.39	3,689.61	
309	20	4" 15.7# XT-39 DP	31.79	8,490.18	3,657.82	
310	x	4" 15.7# XT-39 DP	31.54	8,521.72	3,626.28	
311	xx	4" 15.7# XT-39 DP	31.9	8,553.62	3,594.38	
312	21	4" 15.7# XT-39 DP	32.14	8,585.76	3,562.24	
313	x	4" 15.7# XT-39 DP	32.51	8,618.27	3,529.73	
314	xx	4" 15.7# XT-39 DP	31.89	8,650.16	3,497.84	
315	22	4" 15.7# XT-39 DP	31.63	8,681.79	3,466.21	
316	x	4" 15.7# XT-39 DP	31.62	8,713.41	3,434.59	
317	xx	4" 15.7# XT-39 DP	31.88	8,745.29	3,402.71	
318	23	4" 15.7# XT-39 DP	31.97	8,777.26	3,370.74	
319	x	4" 15.7# XT-39 DP	31.98	8,809.24	3,338.76	
320	xx	4" 15.7# XT-39 DP	32.19	8,841.43	3,306.57	
321	24	4" 15.7# XT-39 DP	31.82	8,873.25	3,274.75	
322	x	4" 15.7# XT-39 DP	32.44	8,905.69	3,242.31	
323	xx	4" 15.7# XT-39 DP	32.28	8,937.97	3,210.03	
324	25	4" 15.7# XT-39 DP	31.85	8,969.82	3,178.18	



Baker Oil Tools

TALLY SHEET

CUSTOMER	Bill Barrett
WELL NAME	State of CO N 1S-66-36-0108BH
DATE	2/25/2014
SERVICE REP	Bryan Meador/ Calvin Turnbaugh

			OPENHOLE TD		12,158.00	COMMENTS:
Item #	Joint #	DESCRIPTION:	LENGTH:	ACC. LENGTH	DEPTH 12,148.00	
325	x	4" 15.7# XT-39 DP	32.28	9,002.10	3,145.90	
326	xx	4" 15.7# XT-39 DP	32.42	9,034.52	3,113.48	
327	26	4" 15.7# XT-39 DP	31.71	9,066.23	3,081.77	
328	x	4" 15.7# XT-39 DP	31.84	9,098.07	3,049.93	
329	xx	4" 15.7# XT-39 DP	32.55	9,130.62	3,017.38	
330	27	4" 15.7# XT-39 DP	32.53	9,163.15	2,984.85	
331	x	4" 15.7# XT-39 DP	31.48	9,194.63	2,953.37	
332	xx	4" 15.7# XT-39 DP	31.81	9,226.44	2,921.56	
333	28	4" 15.7# XT-39 DP	32.16	9,258.60	2,889.40	
334	x	4" 15.7# XT-39 DP	32.16	9,290.76	2,857.24	
335	xx	4" 15.7# XT-39 DP	31.56	9,322.32	2,825.68	
336	29	4" 15.7# XT-39 DP	31.67	9,353.99	2,794.01	
	x	4" 15.7# XT-39 DP	31.83	9,385.82	2,762.18	
	xx	4" 15.7# XT-39 DP	31.72	9,417.54	2,730.46	
	30	4" 15.7# XT-39 DP	32.35	9,449.89	2,698.11	
	x	4" 15.7# XT-39 DP	31.89	9,481.78	2,666.22	
	xx	4" 15.7# XT-39 DP	32.18	9,513.96	2,634.04	
	31	4" 15.7# XT-39 DP	31.55	9,545.51	2,602.49	
	x	4" 15.7# XT-39 DP	31.92	9,577.43	2,570.57	
	xx	4" 15.7# XT-39 DP	32.36	9,609.79	2,538.21	
	32	4" 15.7# XT-39 DP	31.96	9,641.75	2,506.25	
	x	4" 15.7# XT-39 DP	31.78	9,673.53	2,474.47	
	xx	4" 15.7# XT-39 DP	32.19	9,705.72	2,442.28	
	33	4" 15.7# XT-39 DP	31.79	9,737.51	2,410.49	
	x	4" 15.7# XT-39 DP	32.37	9,769.88	2,378.12	
	xx	4" 15.7# XT-39 DP	32.21	9,802.09	2,345.91	
	34	4" 15.7# XT-39 DP	32.6	9,834.69	2,313.31	
	x	4" 15.7# XT-39 DP	32.65	9,867.34	2,280.66	
	xx	4" 15.7# XT-39 DP	31.67	9,899.01	2,248.99	
	35	4" 15.7# XT-39 DP	31.9	9,930.91	2,217.09	
	x	4" 15.7# XT-39 DP	31.71	9,962.62	2,185.38	
	xx	4" 15.7# XT-39 DP	32.04	9,994.66	2,153.34	
	36	4" 15.7# XT-39 DP	32.02	10,026.68	2,121.32	
	x	4" 15.7# XT-39 DP	32.07	10,058.75	2,089.25	
	xx	4" 15.7# XT-39 DP	31.89	10,090.64	2,057.36	
	37	4" 15.7# XT-39 DP	32.62	10,123.26	2,024.74	
	x	4" 15.7# XT-39 DP	32.27	10,155.53	1,992.47	
	xx	4" 15.7# XT-39 DP	32.45	10,187.98	1,960.02	
	38	4" 15.7# XT-39 DP	31.62	10,219.60	1,928.40	
	x	4" 15.7# XT-39 DP	32.01	10,251.61	1,896.39	
	xx	4" 15.7# XT-39 DP	32.03	10,283.64	1,864.36	
	39	4" 15.7# XT-39 DP	31.92	10,315.56	1,832.44	
	x	4" 15.7# XT-39 DP	31.05	10,346.61	1,801.39	
	xx	4" 15.7# XT-39 DP	31.56	10,378.17	1,769.83	
	40	4" 15.7# XT-39 DP	31.69	10,409.86	1,738.14	
	x	4" 15.7# XT-39 DP	32.17	10,442.03	1,705.97	
	xx	4" 15.7# XT-39 DP	32.18	10,474.21	1,673.79	
	41	4" 15.7# XT-39 DP	31.98	10,506.19	1,641.81	
	x	4" 15.7# XT-39 DP	32.6	10,538.79	1,609.21	
	xx	4" 15.7# XT-39 DP	31.73	10,570.52	1,577.48	
	42	4" 15.7# XT-39 DP	32.65	10,603.17	1,544.83	
	x	4" 15.7# XT-39 DP	31.86	10,635.03	1,512.97	
	xx	4" 15.7# XT-39 DP	31.58	10,666.61	1,481.39	
	43	4" 15.7# XT-39 DP	31.87	10,698.48	1,449.52	

TALLY SHEET

CUSTOMER	Bill Barrett
WELL NAME	State of CO N 1S-66-36-0108BH
DATE	2/25/2014
SERVICE REP	Bryan Meador/ Calvin Turnbaugh

[illegible]



Baker Oil Tools

Casper, Wyoming

CUSTOMER: **BILL BARRETT CORP.**LEASE/WELL: **State of CO N 1S-66-36-0108BH**DATE: **February 19, 2014**

307-233-1277

FRAC POINT - WAREHOUSE ASSEMBLY DRAWING BOOKCasing Size: **7"**Drill Pipe: **4" XT39**Casing Grade: **J-55**Casing Weight: **26#**Casing ID: **6.276"**Casing Drift: **6.151"**Open Hole Size: **6.125"**Drift OD Used: **3.875"**Liner Size: **4 1/2"**Tested (Air or Water): **Air**Liner Weight: **11.6#**Test Pressure (PSI): **130**Liner Grade: **P-110**Liner Drift: **3.875"**Liner Thread: **LTC****RePACKERS****FRAC SLEEVES**Swell - Oil/Water: **OIL**STO #: **5501835103**Mat. #: **H304070012**Thread Size: **4 1/2"**Thread Size: **4 1/2"**Thread Type: **LTC**Thread Type: **LTC**Thread Wt. **11.6#**Thread Wt. **11.6#**Grade: **P-110**Grade: **P-110**PSI Per Screw: **381**Number of Screws: **6****"P" SLEEVE****FLOAT EQUIPMENT**Mat. #: **H809880001**Thread Size: **4 1/2"**Thread Size: **4 1/2"**Thread Type: **LTC**Thread Type: **LTC**Thread Wt. **11.6#**Thread Wt. **11.6#**Grade: **P-110**Grade: **P-110**PSI Per Screw: **805**Number of Screws: **5**



Baker Oil Tools

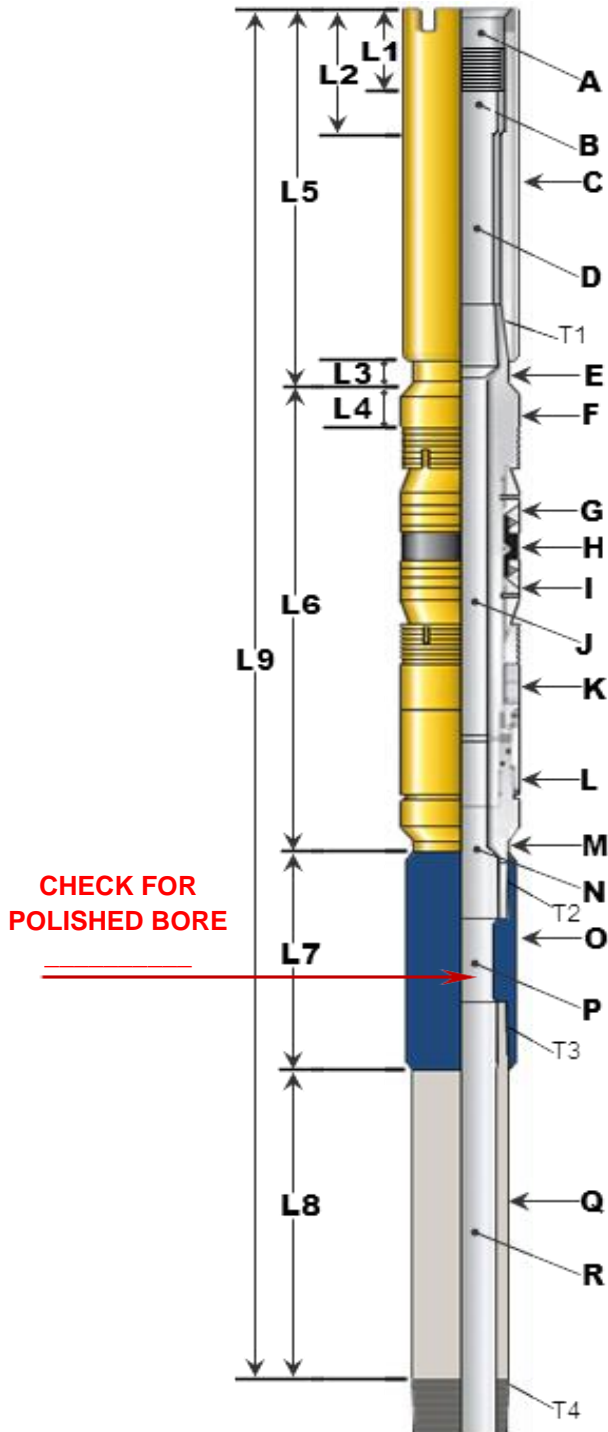
Casper, Wyoming

CUSTOMER: **BILL BARRETT CORP.**LEASE/WELL: **State of CO N 1S-66-36-0108BH**DATE: **February 19, 2014**

307-233-1277

WELLBORE INFORMATION

Casing Size:	7"	Casing Weight:	26#	Casing ID:	6.276"	Casing Drift:	6.151"	Open Hole Size:	6.125"
Liner Size:	4 1/2"	Liner Weight:	11.6#	Liner Grade:	P-110	Liner Drift:	3.875"	Liner Thread:	LTC

S3 HYD SET PACKER WITH RC PROFILE

DIMENSIONS		THREAD INFO	
A (in)	5.312	T1 - Thread	4 1/2" VamTop 12.6#
B (in)	4.812	T1 - Torque	5200
C (in)	5.750	T2 - Thread	4 1/2" VamTop 12.6#
D (in)	4.000	T2 - Torque	5200
E (in)	4.937	T3 - Thread	4 1/2" LTC 11.5#
★ F (in) ★	5.750	T3 - Torque	3020
G (in)	5.781	★T4 - Thread ★	4 1/2" LTC 11.5#
H (in)	5.718	T4 - Torque	3020
I (in)	5.781		
J (in)	3.875		
K (in)	5.843		
★ L (in) ★	5.937		
M (in)	4.500		
N (in)	3.937	S-3 INFO	
O (in)	5.062	# SHEAR SCREWS	8
P (in)	3.875	PRESSURE/SCREW	247
Q (in)	4.531	ACTIVATION PRESSURE	1976
R (in)	4.031	PACKOFF PRESSURE	5000
L1 (ft)	0.57	DRIFT (in)	
L2 (ft)	1.27		
L3 (ft)	0.39		
L4 (ft)	1.22		
L5 (ft)	4.00	SLIPS VISUALLY CHECKED	
L6 (ft)	4.63		
L7 (ft)	2.01		
L8 (ft)	5.46		
L9 (ft)	16.08		

PRODUCT INFORMATION

S-3 Hyd Packer	H409400024	Qty	1
RC Sleeve	10292414	Qty	1
3.875" PBR	10287024	Qty	1
6' LTC Pup	H299920030	Qty	1

Pat/Jeremiah/Jason S. 2-18-14

ASSEMBLED BY:

Trottier 2-19-14

APPROVED BY:



Baker Oil Tools

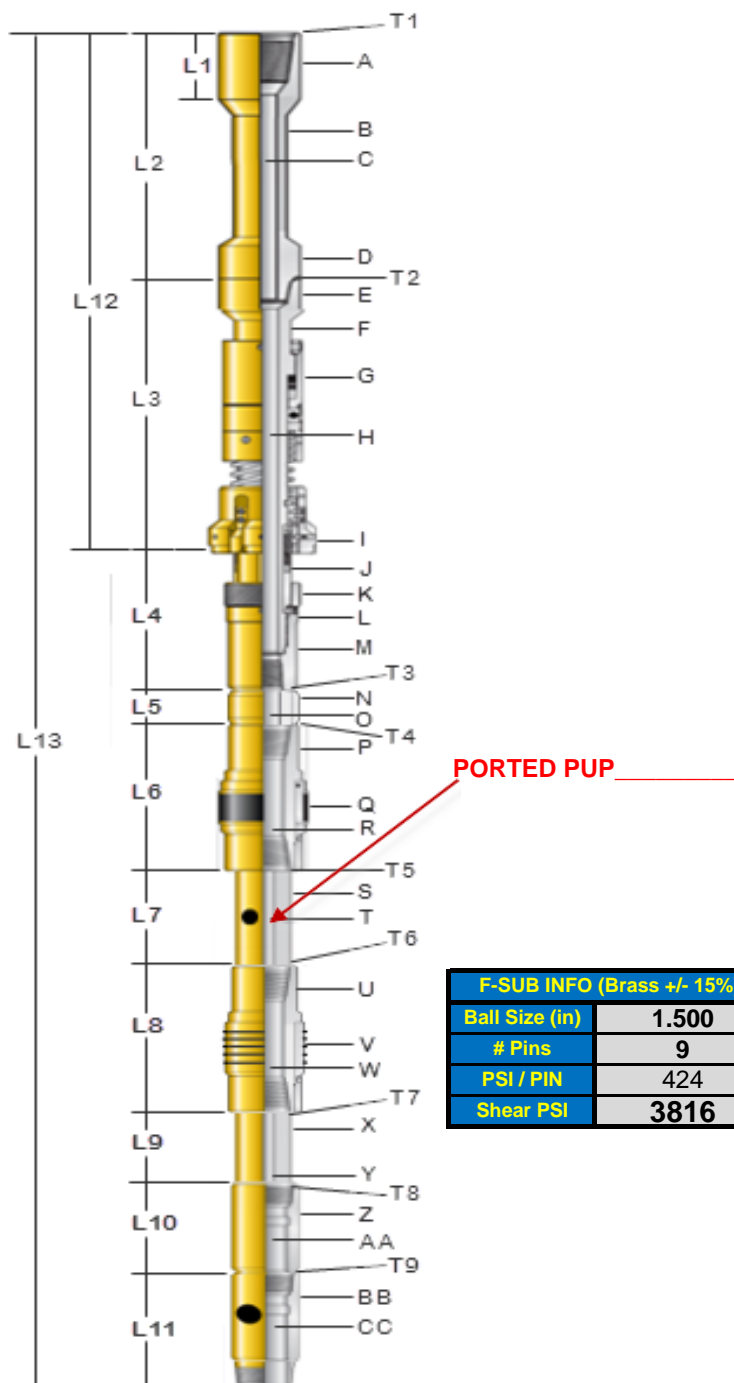
Casper, Wyoming

CUSTOMER: **BILL BARRETT CORP.**LEASE/WELL: **State of CO N 1S-66-36-0108BH**DATE: **February 19, 2014**

307-233-1277

WELLBORE INFORMATION

Casing Size:	7"	Casing Weight:	26#	Casing ID:	6.276"	Casing Drift:	6.151"	Open Hole Size:	6.125"
Liner Size:	4 1/2"	Liner Weight:	11.6#	Liner Grade:	P-110	Liner Drift:	3.875"	Liner Thread:	LTC

2RH SETTING TOOL WITH PBR PACKOFFS & BALL SEAT**F-SUB INFO (Brass +/- 15%)**

Ball Size (in)	1.500
# Pins	9
PSI / PIN	424
Shear PSI	3816

OD / ID		LENGTHS	
A (in)	4.750	L1 (ft)	1.34
B (in)	3.500	L2 (ft)	7.68
C (in)	2.687	L3 (ft)	2.81
D (in)	4.750	L4 (ft)	1.28
E (in)	4.781	L5 (ft)	0.26
F (in)	3.250	L6 (ft)	1.01
G (in)	4.937	L7 (ft)	6.54
H (in)	2.000	L8 (ft)	1.19
I (in)	5.687	L9 (ft)	5.68
J (in)	3.062	L10 (ft)	1.23
K (in)	5.125	L11 (ft)	0.79
L (in)	3.812	L12 (ft)	10.50
M (in)	3.500	L13 (ft)	28.08
N (in)	3.062	THREADS	
O (in)	2.000		
P (in)	3.718	★ T1 - Size/Type ★	3 1/2" IF
Q (in)	4.000	T1 - Torque	9000
★ R (in) ★	2.000	T2 - Size/Type	3 1/2" IF
S (in)	3.062	T2 - Torque	9000
★ T (in) ★	1.968	T3 - Size/Type	2 3/8" EUE
U (in)	3.250	T3 - Torque	1790
V (in)	3.812	T4 - Size/Type	2 3/8" EUE
★ W (in) ★	2.000	T4 - Torque	1790
X (in)	2.375	T5 - Size/Type	2 3/8" EUE
★ Y (in) ★	1.968	T5 - Torque	1790
Z (in)	3.062	T6 - Size/Type	2 3/8" EUE
AA (in)	1.625	T6 - Torque	1790
BB (in)	3.062	T7 - Size/Type	2 3/8" EUE
CC (in)	1.375	T7 - Torque	1790
★ DRIFT ★	1.901	T8 - Size/Type	2 3/8" EUE
		T8 - Torque	1790
		T9 - Size/Type	2 3/8" EUE
		T9 - Torque	1790

DESCRIPTION	SERIAL #
8' 3 1/2" IF Pup	ZCA00103
2RH/RC Setting Tool	10512222
4" V-ring Pack off	ZRC1098
3.875" O-Ring Packoff	NSN
F-Sub	NSN
Profile Nipple (1.750" Ball)	NSN

Pat/Jeremiah/Jason S 2-18-14

ASSEMBLED BY / DATE:

Trottier 2-19-14

APPROVED BY / DATE:



Baker Oil Tools

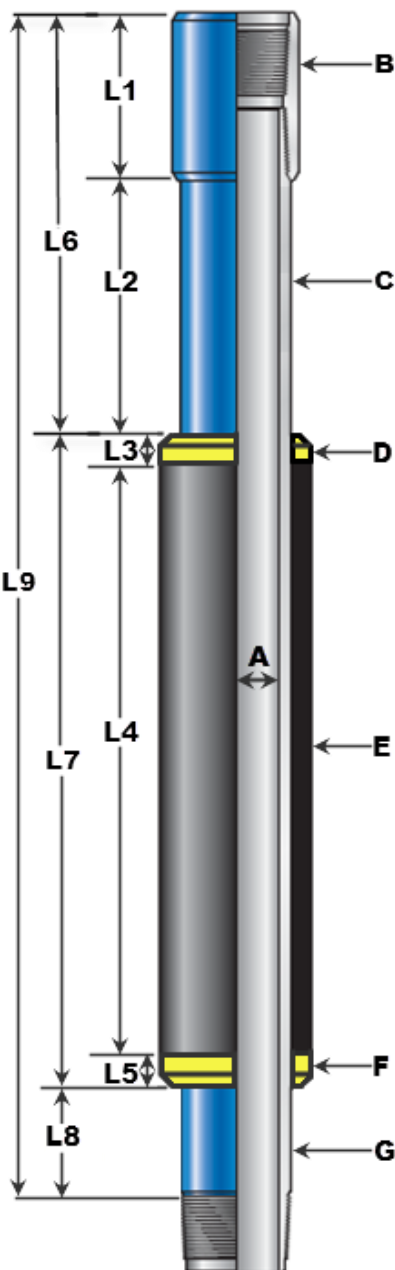
Casper, Wyoming

CUSTOMER: **BILL BARRETT CORP.**LEASE/WELL: **State of CO N 1S-66-36-0108BH**DATE: **February 19, 2014**

307-233-1277

WELLBORE INFORMATION

Casing Size:	7"	Casing Weight:	26#	Casing ID:	6.276"	Casing Drift:	6.151"	Open Hole Size:	6.125"
Liner Size:	4 1/2"	Liner Weight:	11.6#	Liner Grade:	P-110	Liner Drift:	3.875"	Liner Thread:	LTC

OPEN HOLE SWELL PACKER**OH FRAC PACKER SPECIFICATION SHEET - Order in Hole (Bottom Up)**

	H304070012				
	Packer. #'s				
	1	2	3	4	5
WO#:	4506487454-95	4506487454-94	4506487454-93	4506487454-92	4506487454-91
A (in)	4.000	4.000	4.000	4.000	4.000
B (in)	4.968	4.968	4.968	5.000	4.968
C (in)	4.531	4.531	4.531	4.531	4.531
★ D (in) ★	5.750	5.750	5.750	5.750	5.750
★ E (in) ★	5.718	5.718	5.750	5.718	5.718
★ F (in) ★	5.750	5.750	5.750	5.750	5.750
G (in)	4.531	4.531	4.531	4.531	4.531
L1 (ft)	0.58	0.59	0.59	0.59	0.59
L2 (ft)	3.57	3.59	3.58	3.58	3.55
L3 (ft)	0.34	0.34	0.34	0.34	0.34
L4 (ft)	6.99	6.98	6.99	6.99	7.01
L5 (ft)	0.34	0.34	0.34	0.34	0.34
L6 (ft)	4.16	4.17	4.16	4.16	4.14
L7 (ft)	7.67	7.67	7.67	7.67	7.68
L8 (ft)	2.40	2.41	2.42	2.41	2.42
L9 (ft)	14.22	14.23	14.24	14.23	14.23

Thd. Size	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"
Thd. Type	LTC	LTC	LTC	LTC	LTC
Thd. Weight	11.6#	11.6#	11.6#	11.6#	11.6#
Grade	P-110	P-110	P-110	P-110	P-110
Drifted:	3.875"	3.875"	3.875"	3.875"	3.875"
Torque #	3020	3020	3020	3020	3020

Zack 2-5-14

TESTED & INSPECTED BY / DATE:

Trottier 2-19-14

APPROVED BY / DATE:



Baker Oil Tools

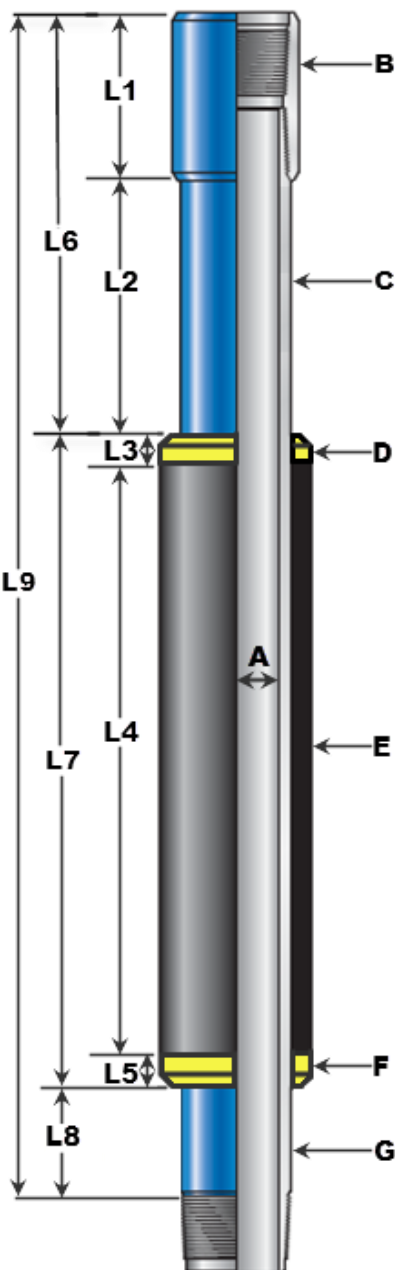
Casper, Wyoming

CUSTOMER: **BILL BARRETT CORP.**LEASE/WELL: **State of CO N 1S-66-36-0108BH**DATE: **February 19, 2014**

307-233-1277

WELLBORE INFORMATION

Casing Size:	7"	Casing Weight:	26#	Casing ID:	6.276"	Casing Drift:	6.151"	Open Hole Size:	6.125"
Liner Size:	4 1/2"	Liner Weight:	11.6#	Liner Grade:	P-110	Liner Drift:	3.875"	Liner Thread:	LTC

OPEN HOLE SWELL PACKER**OH FRAC PACKER SPECIFICATION SHEET - Order in Hole (Bottom Up)**

	Packer. #'s				
	H304070012				
	6	7	8	9	10
WO#:	4506487454-67	4506487454-18	4506487454-30	4506487454-96	4506487454-64
A (in)	4.031	4.031	4.031	4.000	4.000
B (in)	5.000	4.968	5.000	4.968	5.000
C (in)	4.531	4.531	4.531	4.531	4.531
★ D (in) ★	5.750	5.750	5.750	5.750	5.750
★ E (in) ★	5.750	5.718	5.718	5.750	5.750
★ F (in) ★	5.750	5.750	5.750	5.750	5.750
G (in)	4.531	4.500	4.531	4.531	4.531
L1 (ft)	0.59	0.59	0.59	0.59	0.59
L2 (ft)	3.57	3.54	3.54	3.56	3.56
L3 (ft)	0.34	0.34	0.34	0.34	0.34
L4 (ft)	7.00	7.02	7.00	6.99	7.00
L5 (ft)	0.34	0.34	0.34	0.34	0.34
L6 (ft)	4.15	4.13	4.13	4.15	4.14
L7 (ft)	7.68	7.69	7.67	7.67	7.68
L8 (ft)	2.40	2.42	2.43	2.41	2.40
L9 (ft)	14.23	14.23	14.23	14.22	14.23

Thd. Size	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"
Thd. Type	LTC	LTC	LTC	LTC	LTC
Thd. Weight	11.6#	11.6#	11.6#	11.6#	11.6#
Grade	P-110	P-110	P-110	P-110	P-110
Drifted:	3.875"	3.875"	3.875"	3.875"	3.875"
Torque #	3020	3020	3020	3020	3020

Zack 2-5-14

TESTED & INSPECTED BY / DATE:

Trottier 2-19-14

APPROVED BY / DATE:



Baker Oil Tools

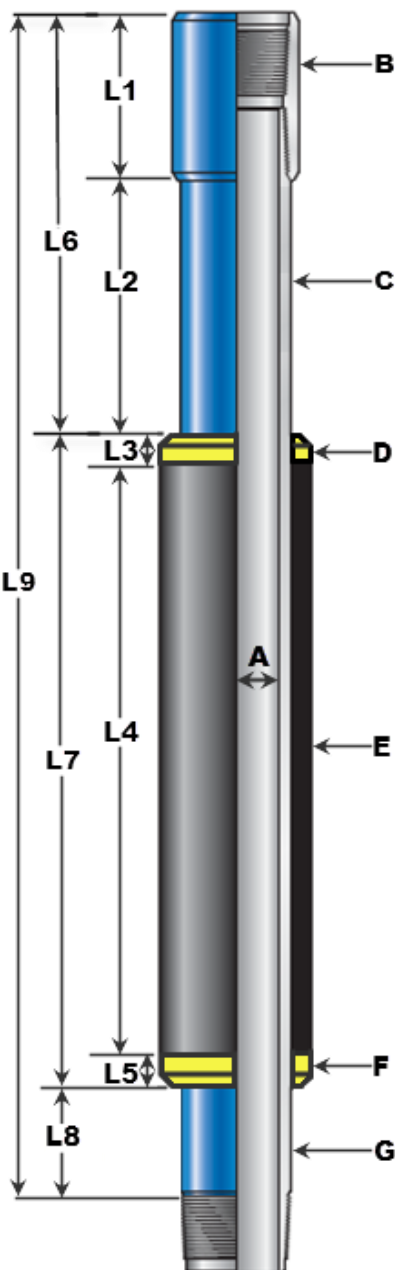
Casper, Wyoming

CUSTOMER: **BILL BARRETT CORP.**LEASE/WELL: **State of CO N 1S-66-36-0108BH**DATE: **February 19, 2014**

307-233-1277

WELLBORE INFORMATION

Casing Size:	7"	Casing Weight:	26#	Casing ID:	6.276"	Casing Drift:	6.151"	Open Hole Size:	6.125"
Liner Size:	4 1/2"	Liner Weight:	11.6#	Liner Grade:	P-110	Liner Drift:	3.875"	Liner Thread:	LTC

OPEN HOLE SWELL PACKER**OH FRAC PACKER SPECIFICATION SHEET - Order in Hole (Bottom Up)**

	H304070012				
	Packer. #'s				
	11	12	13	14	15
WO#:	4506487454-17	4506487454-16	4506487454-39	4506487454-68	4506487454-83
A (in)	4.031	4.031	4.031	4.031	4.031
B (in)	4.968	5.000	5.000	4.968	4.968
C (in)	4.531	4.531	4.531	4.531	4.531
★ D (in) ★	5.750	5.750	5.750	5.750	5.750
★ E (in) ★	5.718	5.750	5.750	5.750	5.750
★ F (in) ★	5.750	5.750	5.750	5.750	5.750
G (in)	4.531	4.531	4.531	4.531	4.531
L1 (ft)	0.59	0.59	0.59	0.58	0.59
L2 (ft)	3.57	3.55	3.55	3.57	3.57
L3 (ft)	0.34	0.34	0.34	0.34	0.34
L4 (ft)	6.99	6.96	6.99	7.00	6.99
L5 (ft)	0.34	0.34	0.34	0.34	0.34
L6 (ft)	4.16	4.14	4.14	4.16	4.16
L7 (ft)	7.66	7.63	7.66	7.67	7.66
L8 (ft)	2.42	2.46	2.41	2.40	2.41
L9 (ft)	14.23	14.23	14.21	14.23	14.23

Thd. Size	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"
Thd. Type	LTC	LTC	LTC	LTC	LTC
Thd. Weight	11.6#	11.6#	11.6#	11.6#	11.6#
Grade	P-110	P-110	P-110	P-110	P-110
Drifted:	3.875"	3.875"	3.875"	3.875"	3.875"
Torque #	3020	3020	3020	3020	3020

Zack 2-5-14

TESTED & INSPECTED BY / DATE:

Trottier 2-19-14

APPROVED BY / DATE:



Baker Oil Tools

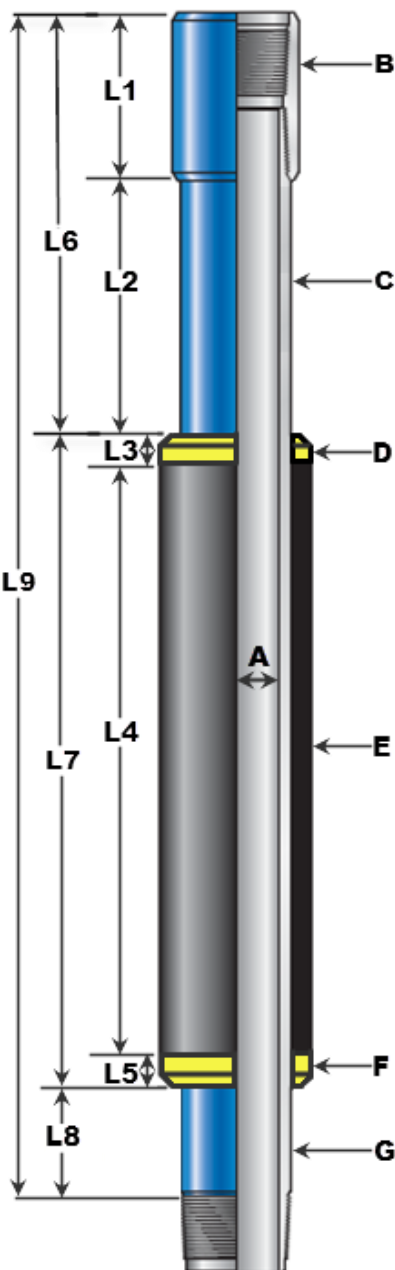
Casper, Wyoming

CUSTOMER: **BILL BARRETT CORP.**LEASE/WELL: **State of CO N 1S-66-36-0108BH**DATE: **February 19, 2014**

307-233-1277

WELLBORE INFORMATION

Casing Size:	7"	Casing Weight:	26#	Casing ID:	6.276"	Casing Drift:	6.151"	Open Hole Size:	6.125"
Liner Size:	4 1/2"	Liner Weight:	11.6#	Liner Grade:	P-110	Liner Drift:	3.875"	Liner Thread:	LTC

OPEN HOLE SWELL PACKER**OH FRAC PACKER SPECIFICATION SHEET - Order in Hole (Bottom Up)**

	Packer. #'s	H304070012			
	16	17	18	19	EXTRA
WO#:	4506487454-46	4506487454-57	4506487454-37	4506487454-36	4506487454-32
A (in)	4.031	4.031	4.031	4.031	4.031
B (in)	5.000	4.968	5.000	4.968	4.968
C (in)	4.531	4.531	4.531	4.531	4.531
★ D (in) ★	5.750	5.750	5.750	5.750	5.750
★ E (in) ★	5.750	5.750	5.750	5.718	5.718
★ F (in) ★	5.750	5.750	5.750	5.750	5.750
G (in)	4.531	4.531	4.531	4.531	4.531
L1 (ft)	0.59	0.59	0.59	0.59	0.59
L2 (ft)	3.53	3.55	3.54	3.55	3.53
L3 (ft)	0.34	0.34	0.34	0.34	0.34
L4 (ft)	7.01	7.00	6.99	7.00	6.98
L5 (ft)	0.34	0.34	0.34	0.34	0.34
L6 (ft)	4.12	4.14	4.13	4.14	4.11
L7 (ft)	7.69	7.68	7.67	7.68	7.66
L8 (ft)	2.41	2.41	2.43	2.41	2.45
L9 (ft)	14.22	14.23	14.22	14.22	14.22

Thd. Size	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"
Thd. Type	LTC	LTC	LTC	LTC	LTC
Thd. Weight	11.6#	11.6#	11.6#	11.6#	11.6#
Grade	P-110	P-110	P-110	P-110	P-110
Drifted:	3.875"	3.875"	3.875"	3.875"	3.875"
Torque #	3020	3020	3020	3020	3020

Zack 2-5-14

TESTED & INSPECTED BY / DATE:

Trottier 2-19-14

APPROVED BY / DATE:



Baker Oil Tools

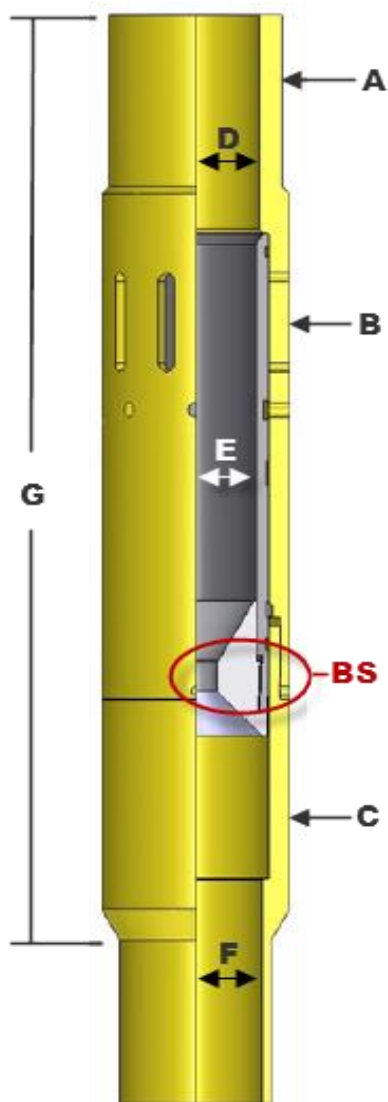
Casper, Wyoming

CUSTOMER: **BILL BARRETT CORP.**LEASE/WELL: **State of CO N 1S-66-36-0108BH**DATE: **February 19, 2014**

307-233-1277

WELLBORE INFORMATION

Casing Size:	7"	Casing Weight:	26#	Casing ID:	6.276"	Casing Drift:	6.151"	Open Hole Size:	6.125"
Liner Size:	4 1/2"	Liner Weight:	11.6#	Liner Grade:	P-110	Liner Drift:	3.875"	Liner Thread:	LTC

BALL ACTIVATED SLEEVE**FRAC SLEEVE SPECIFICATION SHEET - Order in Hole (Bottom Up)**

	2	3	4	5	6
BS Type	1/16" EX	1/16" EX	1/16" EX	1/16" EX	1/16" EX
EXPRESS Sleeve Mat #	H810450011	H810450012	H810450013	H810450014	H810450015
Ball Size (in)	2.063	2.125	2.188	2.250	2.313
Ball Seat ID (in)	2.010	2.073	2.135	2.198	2.260
A (in)	5.000	5.000	5.000	5.000	5.000
★ B (in) ★	5.625	5.625	5.625	5.625	5.625
C (in)	5.625	5.625	5.625	5.625	5.625
D (in)	3.937	3.937	3.937	3.937	3.937
E (in)	3.875	3.875	3.875	3.875	3.875
F (in)	3.937	3.937	3.937	3.937	3.937
G (ft)	2.40	2.40	2.40	2.40	2.40

Thd. Size	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"
Thd. Type	LTC	LTC	LTC	LTC	LTC
Thd. Weight	11.6#	11.6#	11.6#	11.6#	11.6#
Grade	P-110	P-110	P-110	P-110	P-110
Torque #	3020	3020	3020	3020	3020
Tested PSI	130	130	130	130	130
Air/Water	Air	Air	Air	Air	Air

# Screws	6	6	6	6	6
PSI - Screw	381	381	381	381	381
Open PSI	2286	2286	2286	2286	2286

STO #	5501835103
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Zack/David 2-6-14

TESTED & INSPECTED BY / DATE:

Trottier 2-19-14

APPROVED BY / DATE:



Baker Oil Tools

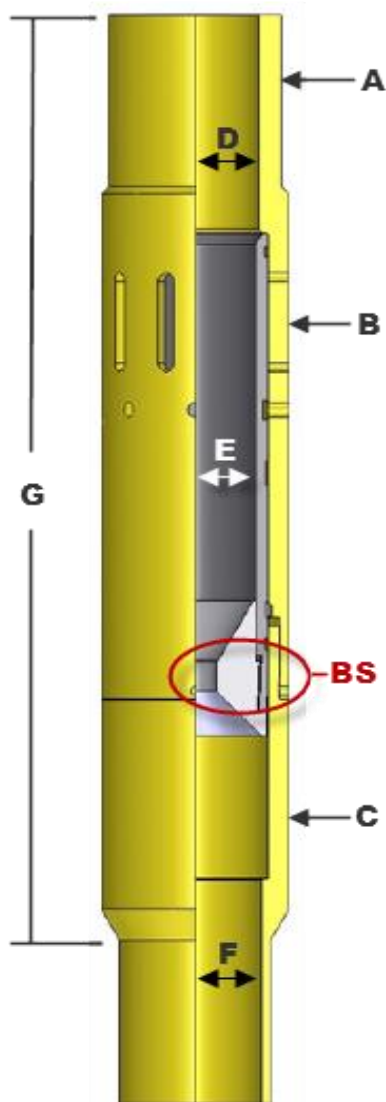
Casper, Wyoming

CUSTOMER: **BILL BARRETT CORP.**LEASE/WELL: **State of CO N 1S-66-36-0108BH**DATE: **February 19, 2014**

307-233-1277

WELLBORE INFORMATION

Casing Size:	7"	Casing Weight:	26#	Casing ID:	6.276"	Casing Drift:	6.151"	Open Hole Size:	6.125"
Liner Size:	4 1/2"	Liner Weight:	11.6#	Liner Grade:	P-110	Liner Drift:	3.875"	Liner Thread:	LTC

BALL ACTIVATED SLEEVE**FRAC SLEEVE SPECIFICATION SHEET - Order in Hole (Bottom Up)**

	7	8	9	10	11
BS Type	1/16" EX	1/16" EX	1/16" EX	1/8" EX	1/8" EX
EXPRESS Sleeve Mat #	H810450016	H810450017	H810450018	H810060018	H810060019
Ball Size (in)	2.375	2.438	2.500	2.625	2.750
Ball Seat ID (in)	2.323	2.385	2.448	2.525	2.650
A (in)	5.000	5.000	5.000	5.000	5.000
★ B (in) ★	5.625	5.625	5.625	5.625	5.625
C (in)	5.625	5.625	5.625	5.625	5.625
D (in)	3.937	3.937	3.937	3.937	3.937
E (in)	3.875	3.875	3.875	3.875	3.875
F (in)	3.937	3.937	3.937	3.937	3.937
G (ft)	2.40	2.40	2.40	2.40	2.40

Thd. Size	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"
Thd. Type	LTC	LTC	LTC	LTC	LTC
Thd. Weight	11.6#	11.6#	11.6#	11.6#	11.6#
Grade	P-110	P-110	P-110	P-110	P-110
Torque #	3020	3020	3020	3020	3020
Tested PSI	130	130	130	130	130
Air/Water	Air	Air	Air	Air	Air

# Screws	6	6	6	6	6
PSI - Screw	381	381	381	381	381
Open PSI	2286	2286	2286	2286	2286

STO #	5501835103
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Zack/David 2-6-14

TESTED & INSPECTED BY / DATE:

Trottier 2-19-14

APPROVED BY / DATE:



Baker Oil Tools

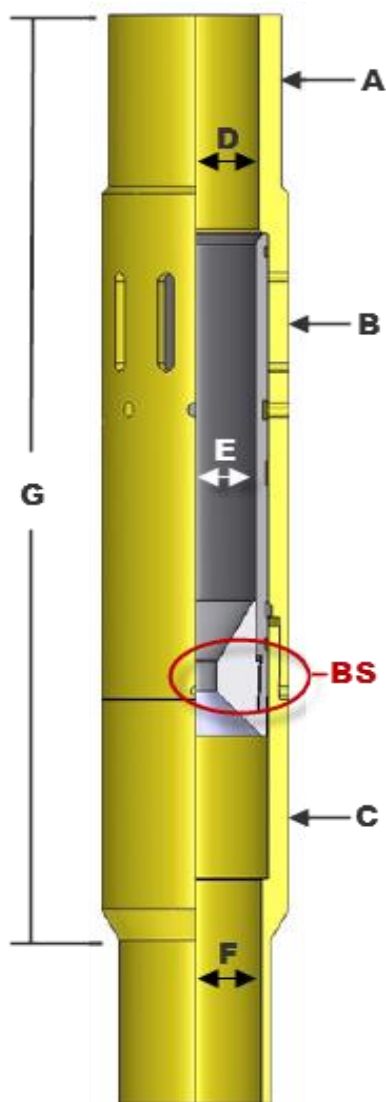
Casper, Wyoming

CUSTOMER: **BILL BARRETT CORP.**LEASE/WELL: **State of CO N 1S-66-36-0108BH**DATE: **February 19, 2014**

307-233-1277

WELLBORE INFORMATION

Casing Size:	7"	Casing Weight:	26#	Casing ID:	6.276"	Casing Drift:	6.151"	Open Hole Size:	6.125"
Liner Size:	4 1/2"	Liner Weight:	11.6#	Liner Grade:	P-110	Liner Drift:	3.875"	Liner Thread:	LTC

BALL ACTIVATED SLEEVE**FRAC SLEEVE SPECIFICATION SHEET - Order in Hole (Bottom Up)**

	12	13	14	15	16
BS Type	1/8" EX	1/8" EX	1/8" EX	1/8" EX	1/8" EX
EXPRESS Sleeve Mat #	H810060020	H810060021	H810060022	H810060023	H810060024
Ball Size (in)	2.875	3.000	3.125	3.250	3.375
Ball Seat ID (in)	2.775	2.900	3.025	3.150	3.275
A (in)	5.000	5.000	5.000	5.000	5.000
★ B (in) ★	5.625	5.625	5.625	5.625	5.625
C (in)	5.625	5.625	5.625	5.625	5.625
D (in)	3.937	3.937	3.937	3.937	3.937
E (in)	3.875	3.875	3.875	3.875	3.875
F (in)	3.937	3.937	3.937	3.937	3.937
G (ft)	2.40	2.40	2.40	2.40	2.40

Thd. Size	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"
Thd. Type	LTC	LTC	LTC	LTC	LTC
Thd. Weight	11.6#	11.6#	11.6#	11.6#	11.6#
Grade	P-110	P-110	P-110	P-110	P-110
Torque #	3020	3020	3020	3020	3020
Tested PSI	130	130	130	130	130
Air/Water	Air	Air	Air	Air	Air

# Screws	6	6	6	6	6
PSI - Screw	381	381	381	381	381
Open PSI	2286	2286	2286	2286	2286

STO #	5501835103
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Zack/David 2-6-14

TESTED & INSPECTED BY / DATE:

Trottier 2-19-14

APPROVED BY / DATE:



Baker Oil Tools

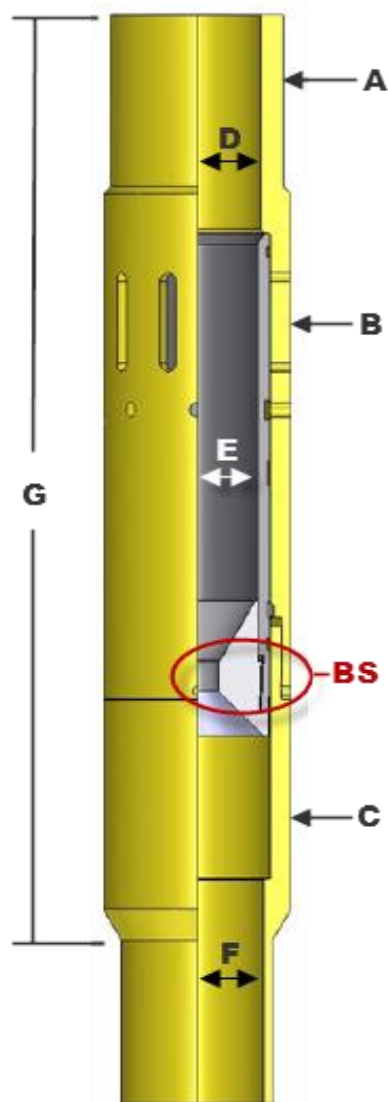
Casper, Wyoming

CUSTOMER: **BILL BARRETT CORP.**LEASE/WELL: **State of CO N 1S-66-36-0108BH**DATE: **February 19, 2014**

307-233-1277

WELLBORE INFORMATION

Casing Size:	7"	Casing Weight:	26#	Casing ID:	6.276"	Casing Drift:	6.151"	Open Hole Size:	6.125"
Liner Size:	4 1/2"	Liner Weight:	11.6#	Liner Grade:	P-110	Liner Drift:	3.875"	Liner Thread:	LTC

BALL ACTIVATED SLEEVE**FRAC SLEEVE SPECIFICATION SHEET - Order in Hole (Bottom Up)**

	17	18			
BS Type	1/8" EX	1/8" EX			
EXPRESS Sleeve Mat #	H810060025	H810060026			
Ball Size (in)	3.500	3.625			
Ball Seat ID (in)	3.400	3.525			
A (in)	5.000	5.000			
★ B (in) ★	5.625	5.625			
C (in)	5.625	5.625			
D (in)	3.937	3.937			
E (in)	3.875	3.875			
F (in)	3.937	3.937			
G (ft)	2.40	2.40			

Thd. Size	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"
Thd. Type	LTC	LTC	LTC	LTC	LTC
Thd. Weight	11.6#	11.6#	11.6#	11.6#	11.6#
Grade	P-110	P-110	P-110	P-110	P-110
Torque #	3020	3020	3020	3020	3020
Tested PSI	130	130	130	130	130
Air/Water	Air	Air	Air	Air	Air

# Screws	6	6	6	6	6
PSI - Screw	381	381	381	381	381
Open PSI	2286	2286	2286	2286	2286

STO #	5501835103
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Zack/David 2-6-14

TESTED & INSPECTED BY / DATE:

Trottier 2-19-14

APPROVED BY / DATE:



Baker Oil Tools

CASPER, WY

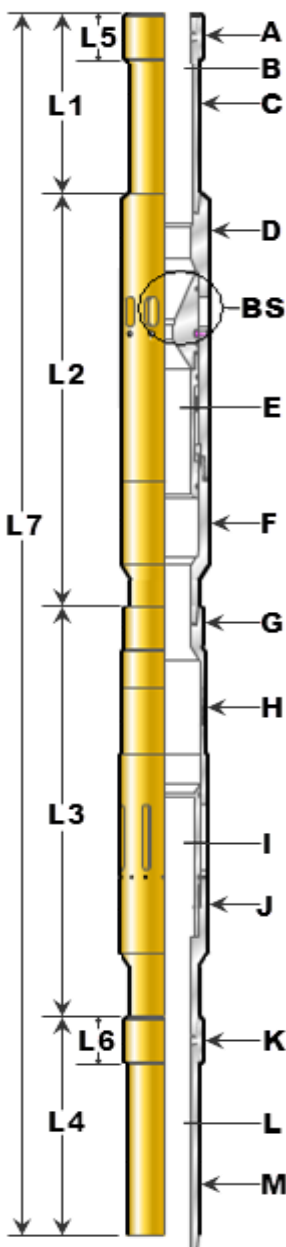
CUSTOMER: BILL BARRETT CORP.LEASE/WELL: State of CO N 1S-66-36-0108BHDATE: February 19, 2014

307-233-1277

WELLBORE INFORMATION

Casing Size:	7"	Casing Weight:	26#	Casing ID:	6.276"	Casing Drift:	6.151"	Open Hole Size:	6.125"
Liner Size:	4 1/2"	Liner Weight:	11.6#	Liner Grade:	P-110	Liner Drift:	3.875"	Liner Thread:	LTC

PRESSURE ACTIVATED "P" SLEEVE
2.000" Frac Sleeve/P-Sleeve



Lengths (ft)	
L1	6.04
L2	2.42
L3	2.71
L4	2.05
L5	0.59
L6	0.59
L7	13.20
OD/ID (in)	
Ball Size	2.000
BS	1.948
A	5.000
B	4.031
C	4.531
★ D ★	5.000
E	3.875
F	5.625
G	5.000
H	5.625
I	3.875
★ J ★	5.625
K	5.000
L	4.031
M	4.500

TEST SHIFTS	
Shift # 1	
Screw Size	1/4"-20
Mat #	HWWGE180JB
Batch #	163966-00040513
# Screws	2
PSI/screw	805
Nominal PSI	1610
Actual PSI	2200
Shift # 2	
Screw Size	1/4"-20
Mat #	HWWGE180JB
Batch #	163966-00040513
# Screws	2
PSI/screw	805
Nominal PSI	1610
Actual PSI	2050
Shift # 3	
Screw Size	1/4"-20
Mat #	HWWGE180JB
Batch #	163966-00040513
# Screws	2
PSI/screw	805
Nominal PSI	1610
Actual PSI	2200
P-SLEEVE AS RUN	
# Screws	5
PSI - Screw	805
Open PSI	4025

Threads		Torque
T1	4.5" LTC 11.6# P-110	3020
T2	4.5" LTC 11.6# P-110	3020
DRIFT	3.800"	

LTC Coupling	H299900281	QTY	2
6' Pup	H299920030	QTY	1
2.00" Sleeve	H810450010	QTY	1
P Sleeve	H809880001	QTY	1
2' Pup Jts	10183564	QTY	1

Zack 2-7-14

INSPECTED BY:

Trottier 2-19-14

APPROVED BY:

CUSTOMER: **BILL BARRETT CORP.**

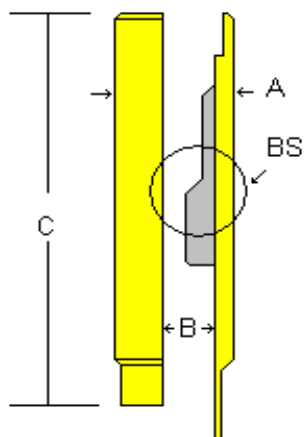
LEASE/WELL: **State of CO N 1S-66-36-0108BH**

DATE: **February 19, 2014**

WELLBORE INFORMATION

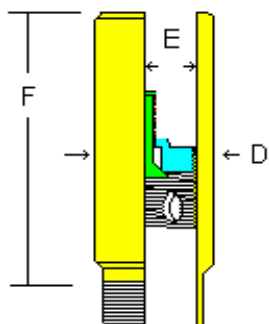
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Liner Size:	4 1/2"	Liner Weight:	11.6#	Liner Grade:	P-110	Liner Drift:	3.875"	Liner Thread:	LTC

SOLID BALL SEAT & FLOAT COLLAR & SHOE



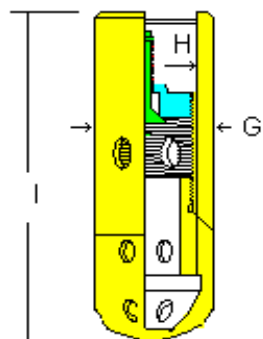
Solid Ball Seat	
BS ID (in)	1.000
Ball Size (in)	1.250
A (in)	5.093
B (in)	4.000
C (ft)	1.34

Ball Seat: 1.00" ID
Checked By: DW
1.250" Ball Seated
Checked By: DW



Single Valve Float Collar	
D (in)	5.031
E (in)	4.156
F (ft)	0.97

Thd. Size	4 1/2"
Thd. Type	LTC
Thd. Weight	11.6#
Grade	P-110
Drifted:	N/A
Torque #	3020
Tested PSI	N/A
Air/Water	N/A



Double Valve Float Shoe	
G (in)	5.062
H (in)	4.125
I (ft)	2.52

Ball Seat Sub	H266790057	Qty	1
Float Collar	H101880030	Qty	1
Float Shoe	H100950059	Qty	1

David 2-10-4

INSPECTED BY / DATE:

Trottier 2-19-14

APPROVED BY:



Baker Oil Tools
CASPER, WY

CUSTOMER: **BILL BARRETT CORP.**

LEASE/WELL: **State of CO N 1S-66-36-0108BH**

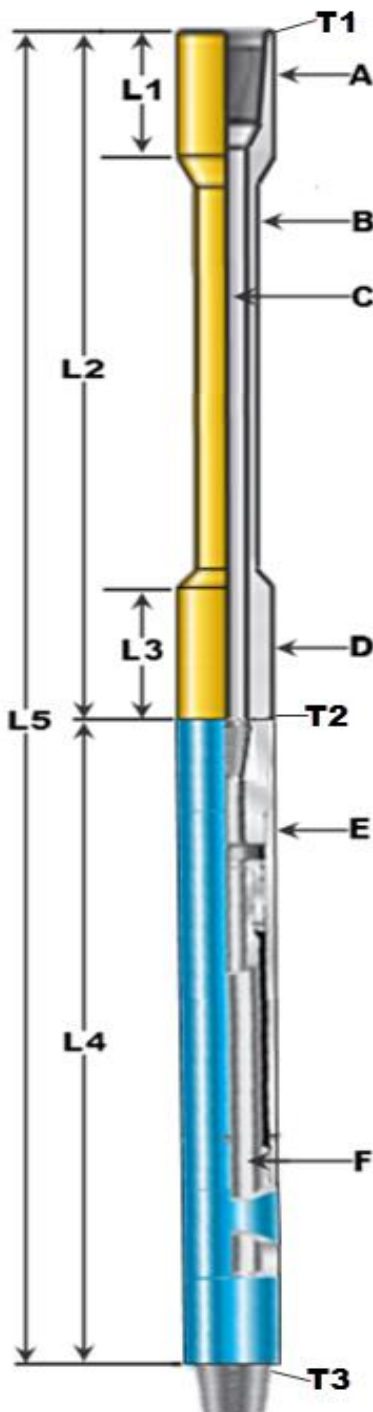
DATE: **February 19, 2014**



307-233-1277

WELLBORE INFORMATION

Casing Size:	7"	Casing Weight:	26#	Casing ID:	6.276"	Casing Drift:	6.151"	Open Hole Size:	6.125"
Liner Size:	4 1/2"	Liner Weight:	11.6#	Liner Grade:	P-110	Liner Drift:	3.875"	Liner Thread:	LTC



OD / ID	
A (in)	5.000
B (in)	4.000
C (in)	2.500
D (in)	4.875
E (in)	4.750
F (in)	2.000
DRIFT	
OD (in)	1.901

LENGTHS	
L1 (ft)	1.38
L2 (ft)	7.68
L3 (ft)	1.30
L4 (ft)	7.85
L5 (ft)	15.53

THREADS	
T1	4" XT-39
T2	3 1/2" IF
T3	3 1/2" IF

DESCRIPTION	SERIAL #
Lift Nipple	ZCA00116
Bumper Sub	1890
Slips	13028540
2" Drift & wire	NSN
Fillup Swage	NSN
Lift Caps	7254/7280

Zack/David 2-24-14

ASSEMBLED BY / DATE:

Trottier 2-24-14

APPROVED BY / DATE:

[illegible]