



Baker Oil Tools

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

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

Displacements	BBLS	GALS
Liner Top	276.29	11,604
3.625" SLV	290.63	12,206
3.500" SLV	293.39	12,322
3.375" SLV	296.78	12,465
3.250" SLV	300.76	12,632
3.125" SLV	304.78	12,801
3.000" SLV	308.80	12,969
2.875" SLV	312.81	13,138
2.750" SLV	316.23	13,282
2.625" SLV	320.47	13,460

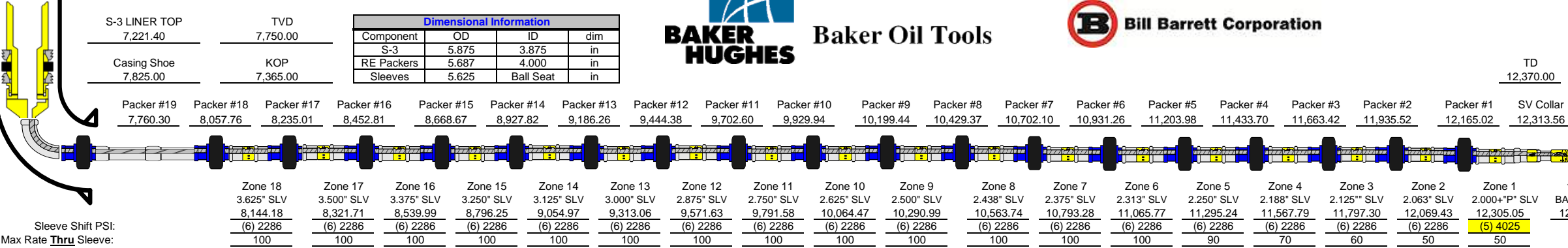
Displacements	BBLS	GALS
2.500" SLV	323.99	13,608
2.438" SLV	328.23	13,786
2.375" SLV	331.80	13,936
2.313" SLV	336.03	14,113
2.250" SLV	339.60	14,263
2.188" SLV	343.83	14,441
2.125"" SLV	347.40	14,591
2.063" SLV	351.63	14,768
2.000+"P" SLV	355.29	14,922
BALL SEAT	355.40	14,927
Float Shoe	356.11	14,956

Length of Zone - FT			
Zone 1	204.98	Zone 10	269.50
Zone 2	229.50	Zone 11	227.34
Zone 3	272.10	Zone 12	258.22
Zone 4	229.72	Zone 13	258.12
Zone 5	229.72	Zone 14	258.44
Zone 6	272.72	Zone 15	259.15
Zone 7	229.16	Zone 16	215.86
Zone 8	272.73	Zone 17	217.80
Zone 9	229.93	Zone 18	177.25

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



7.5.1-1F4 Frac-Point Space Out Diagram



Baker Oil Tools

TALLY SHEET

CUSTOMER

Bill Barrett

WELL NAME

ST. OF CO. N 1S-66-36-1609CDH

DATE

3/16/2014

SERVICE REP

TR PLUMMER / GUS BAGNER

OPENHOLE TD

12,370.00

Item #	Joint #	DESCRIPTION:	LENGTH:	ACC. LENGTH	DEPTH	COMMENTS:
					12,360.00	
1	DVS	DV FLOAT SHOE	2.52	2.52	12,357.48	
2	1	JT 4.5" 11.6# LTC	42.86	45.38	12,314.62	1
3	SVC	SV FLOAT COLLAR	1.06	46.44	12,313.56	
4	BSS	SOLID BALL SEAT SUB - 1.250" BALL	1.32	47.76	12,312.24	
5	PUPJT	4 1/2" 11.6# LTC PUP JOINT P-110	2.07	49.83	12,310.17	
6	S1	P Sleeve	2.71	52.54	12,307.46	
7	S2	2.000" FRAC-SLEEVE	2.41	54.95	12,305.05	
8	PUPJT	4 1/2" 11.6# LTC PUP JOINT P-110	6.07	61.02	12,298.98	
9	2	JT 4.5" 11.6# LTC	42.58	103.60	12,256.40	1
10	3	JT 4.5" 11.6# LTC	42.57	146.17	12,213.83	2
11	4	JT 4.5" 11.6# LTC	42.57	188.74	12,171.26	3
12	X	PUP 4.5" 11.6# P-110 LTC	2.41	191.15	12,168.85	
13	P1	RE PACKER #1	7.67	198.82	12,161.18	CENTER OF PACKER: 12,165.02
14	X	PUP 4.5" 11.6# P-110 LTC	4.16	202.98	12,157.02	
15	5	JT 4.5" 11.6# LTC	42.47	245.45	12,114.55	1
16	6	JT 4.5" 11.6# LTC	42.71	288.16	12,071.84	2
17	S3	2.063" FRAC-SLEEVE	2.41	290.57	12,069.43	
18	7	JT 4.5" 11.6# LTC	42.54	333.11	12,026.89	1
19	8	JT 4.5" 11.6# LTC	42.55	375.66	11,984.34	2
20	9	JT 4.5" 11.6# LTC	42.58	418.24	11,941.76	3
21	X	PUP 4.5" 11.6# P-110 LTC	2.41	420.65	11,939.35	
22	P2	RE PACKER #2	7.67	428.32	11,931.68	CENTER OF PACKER: 11,935.52
23	X	PUP 4.5" 11.6# P-110 LTC	4.16	432.48	11,927.52	
24	10	JT 4.5" 11.6# LTC	42.55	475.03	11,884.97	1
25	11	JT 4.5" 11.6# LTC	42.79	517.82	11,842.18	2
26	12	JT 4.5" 11.6# LTC	42.48	560.30	11,799.70	3
27	S4	2.125" FRAC-SLEEVE	2.40	562.70	11,797.30	
28	13	JT 4.5" 11.6# LTC	42.41	605.11	11,754.89	1
29	14	JT 4.5" 11.6# LTC	42.55	647.66	11,712.34	2
30	15	JT 4.5" 11.6# LTC	42.68	690.34	11,669.66	3
31	X	PUP 4.5" 11.6# P-110 LTC	2.41	692.75	11,667.25	
32	P3	RE PACKER #3	7.67	700.42	11,659.58	CENTER OF PACKER: 11,663.42
33	X	PUP 4.5" 11.6# P-110 LTC	4.14	704.56	11,655.44	
34	16	JT 4.5" 11.6# LTC	42.69	747.25	11,612.75	1
35	17	JT 4.5" 11.6# LTC	42.55	789.80	11,570.20	2
36	S5	2.188" FRAC-SLEEVE	2.41	792.21	11,567.79	
37	18	JT 4.5" 11.6# LTC	42.85	835.06	11,524.94	1
38	19	JT 4.5" 11.6# LTC	42.58	877.64	11,482.36	2
39	20	JT 4.5" 11.6# LTC	42.43	920.07	11,439.93	3
40	X	PUP 4.5" 11.6# P-110 LTC	2.40	922.47	11,437.53	
41	P4	RE PACKER #4	7.67	930.14	11,429.86	CENTER OF PACKER: 11,433.70
42	X	PUP 4.5" 11.6# P-110 LTC	4.18	934.32	11,425.68	
43	21	JT 4.5" 11.6# LTC	42.54	976.86	11,383.14	1
44	22	JT 4.5" 11.6# LTC	42.74	1,019.60	11,340.40	2
45	23	JT 4.5" 11.6# LTC	42.75	1,062.35	11,297.65	3
46	S6	2.250" FRAC-SLEEVE	2.41	1,064.76	11,295.24	
47	24	JT 4.5" 11.6# LTC	42.42	1,107.18	11,252.82	1
48	25	JT 4.5" 11.6# LTC	42.60	1,149.78	11,210.22	2
49	X	PUP 4.5" 11.6# P-110 LTC	2.40	1,152.18	11,207.82	
50	P5	REPACKER #5	7.68	1,159.86	11,200.14	CENTER OF PACKER: 11,203.98
51	X	PUP 4.5" 11.6# P-110 LTC	4.16	1,164.02	11,195.98	
52	26	JT 4.5" 11.6# LTC	42.67	1,206.69	11,153.31	1
53	27	JT 4.5" 11.6# LTC	42.39	1,249.08	11,110.92	2
54	28	JT 4.5" 11.6# LTC	42.74	1,291.82	11,068.18	3



Baker Oil Tools

TALLY SHEET

CUSTOMER	Bill Barrett
WELL NAME	ST. OF CO. N 1S-66-36-1609CDH
DATE	3/16/2014
SERVICE REP	TR PLUMMER / GUS BAGNER

			OPENHOLE TD		12,370.00	COMMENTS:
Item #	Joint #	DESCRIPTION:	LENGTH:	ACC. LENGTH	DEPTH	
					12,360.00	
55	S7	2.313" FRAC-SLEEVE	2.41	1,294.23	11,065.77	
56	29	JT 4.5" 11.6# LTC	42.58	1,336.81	11,023.19	1
57	30	JT 4.5" 11.6# LTC	42.87	1,379.68	10,980.32	2
58	31	JT 4.5" 11.6# LTC	42.78	1,422.46	10,937.54	3
59	X	PUP 4.5" 11.6# P-110 LTC	2.45	1,424.91	10,935.09	
60	P6	RE PACKER #6	7.67	1,432.58	10,927.42	CENTER OF PACKER: 10,931.26
61	X	PUP 4.5" 11.6# P-110 LTC	4.11	1,436.69	10,923.31	
62	32	JT 4.5" 11.6# LTC	42.50	1,479.19	10,880.81	1
63	33	JT 4.5" 11.6# LTC	42.63	1,521.82	10,838.18	2
64	34	JT 4.5" 11.6# LTC	42.49	1,564.31	10,795.69	3
65	S8	2.375" FRAC-SLEEVE	2.41	1,566.72	10,793.28	
66	35	JT 4.5" 11.6# LTC	42.69	1,609.41	10,750.59	1
67	36	JT 4.5" 11.6# LTC	42.24	1,651.65	10,708.35	2
68	X	PUP 4.5" 11.6# P-110 LTC	2.41	1,654.06	10,705.94	
69	P7	RE PACKER #7	7.68	1,661.74	10,698.26	CENTER OF PACKER: 10,702.10
70	X	PUP 4.5" 11.6# P-110 LTC	4.15	1,665.89	10,694.11	
71	37	JT 4.5" 11.6# LTC	42.83	1,708.72	10,651.28	1
72	38	JT 4.5" 11.6# LTC	42.43	1,751.15	10,608.85	2
73	39	JT 4.5" 11.6# LTC	42.70	1,793.85	10,566.15	3
74	S9	2.438" FRAC-SLEEVE	2.41	1,796.26	10,563.74	
75	40	JT 4.5" 11.6# LTC	42.70	1,838.96	10,521.04	1
76	41	JT 4.5" 11.6# LTC	42.76	1,881.72	10,478.28	2
77	42	JT 4.5" 11.6# LTC	42.68	1,924.40	10,435.60	3
78	X	PUP 4.5" 11.6# P-110 LTC	2.39	1,926.79	10,433.21	
79	P8	RE PACKER #8	7.68	1,934.47	10,425.53	CENTER OF PACKER: 10,429.37
80	X	PUP 4.5" 11.6# P-110 LTC	4.17	1,938.64	10,421.36	
81	43	JT 4.5" 11.6# LTC	42.55	1,981.19	10,378.81	1
82	44	JT 4.5" 11.6# LTC	42.88	2,024.07	10,335.93	2
83	45	JT 4.5" 11.6# LTC	42.53	2,066.60	10,293.40	3
84	S10	2.500" FRAC-SLEEVE	2.41	2,069.01	10,290.99	
85	46	JT 4.5" 11.6# LTC	42.56	2,111.57	10,248.43	1
86	47	JT 4.5" 11.6# LTC	42.76	2,154.33	10,205.67	2
87	X	PUP 4.5" 11.6# P-110 LTC	2.40	2,156.73	10,203.27	
88	P9	RE PACKER #9	7.67	2,164.40	10,195.60	CENTER OF PACKER: 10,199.44
89	X	PUP 4.5" 11.6# P-110 LTC	4.17	2,168.57	10,191.43	
90	48	JT 4.5" 11.6# LTC	39.28	2,207.85	10,152.15	1
91	49	JT 4.5" 11.6# LTC	42.71	2,250.56	10,109.44	2
92	50	JT 4.5" 11.6# LTC	42.56	2,293.12	10,066.88	3
93	S11	2.625" FRAC-SLEEVE	2.41	2,295.53	10,064.47	
94	51	JT 4.5" 11.6# LTC	42.82	2,338.35	10,021.65	1
95	52	JT 4.5" 11.6# LTC	42.78	2,381.13	9,978.87	2
96	53	JT 4.5" 11.6# LTC	42.70	2,423.83	9,936.17	3
97	X	PUP 4.5" 11.6# P-110 LTC	2.40	2,426.23	9,933.77	
98	P10	RE PACKER #10	7.67	2,433.90	9,926.10	CENTER OF PACKER: 9,929.94
99	X	PUP 4.5" 11.6# P-110 LTC	4.16	2,438.06	9,921.94	
100	54	JT 4.5" 11.6# LTC	42.71	2,480.77	9,879.23	1
101	55	JT 4.5" 11.6# LTC	42.65	2,523.42	9,836.58	2
102	56	JT 4.5" 11.6# LTC	42.60	2,566.02	9,793.98	3
103	S12	2.750" FRAC-SLEEVE	2.40	2,568.42	9,791.58	
104	57	JT 4.5" 11.6# LTC	42.54	2,610.96	9,749.04	1
105	58	JT 4.5" 11.6# LTC	40.20	2,651.16	9,708.84	2
106	X	PUP 4.5" 11.6# P-110 LTC	2.40	2,653.56	9,706.44	
107	P11	RE PACKER #11	7.68	2,661.24	9,698.76	CENTER OF PACKER: 9,702.60
108	X	PUP 4.5" 11.6# P-110 LTC	4.16	2,665.40	9,694.60	



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DATE

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SERVICE REP

TR PLUMMER / GUS BAGNER

OPENHOLE TD

12,370.00

Item #	Joint #	DESCRIPTION:	LENGTH:	ACC. LENGTH	DEPTH	COMMENTS:
					12,360.00	
109	59	JT 4.5" 11.6# LTC	40.22	2,705.62	9,654.38	1
110	60	JT 4.5" 11.6# LTC	40.04	2,745.66	9,614.34	2
111	61	JT 4.5" 11.6# LTC	40.30	2,785.96	9,574.04	3
112	S13	2.875" FRAC-SLEEVE	2.41	2,788.37	9,571.63	
113	62	JT 4.5" 11.6# LTC	40.14	2,828.51	9,531.49	1
114	63	JT 4.5" 11.6# LTC	40.55	2,869.06	9,490.94	2
115	64	JT 4.5" 11.6# LTC	40.32	2,909.38	9,450.62	3
116	X	PUP 4.5" 11.6# P-110 LTC	2.40	2,911.78	9,448.22	
117	P12	RE PACKER #12	7.69	2,919.47	9,440.53	CENTER OF PACKER: 9,444.38
118	X	PUP 4.5" 11.6# P-110 LTC	4.15	2,923.62	9,436.38	
119	65	JT 4.5" 11.6# LTC	40.27	2,963.89	9,396.11	1
120	66	JT 4.5" 11.6# LTC	40.13	3,004.02	9,355.98	2
121	67	JT 4.5" 11.6# LTC	40.52	3,044.54	9,315.46	3
122	S14	3.000" FRAC-SLEEVE	2.40	3,046.94	9,313.06	
123	68	JT 4.5" 11.6# LTC	40.22	3,087.16	9,272.84	1
124	69	JT 4.5" 11.6# LTC	40.16	3,127.32	9,232.68	2
125	70	JT 4.5" 11.6# LTC	40.20	3,167.52	9,192.48	3
126	X	PUP 4.5" 11.6# P-110 LTC	2.38	3,169.90	9,190.10	
127	P13	RE PACKER #13	7.68	3,177.58	9,182.42	CENTER OF PACKER: 9,186.26
128	X	PUP 4.5" 11.6# P-110 LTC	4.16	3,181.74	9,178.26	
129	71	JT 4.5" 11.6# LTC	40.40	3,222.14	9,137.86	1
130	72	JT 4.5" 11.6# LTC	40.31	3,262.45	9,097.55	2
131	73	JT 4.5" 11.6# LTC	40.17	3,302.62	9,057.38	3
132	S15	3.125" FRAC-SLEEVE	2.41	3,305.03	9,054.97	
133	74	JT 4.5" 11.6# LTC	40.21	3,345.24	9,014.76	1
134	75	JT 4.5" 11.6# LTC	40.17	3,385.41	8,974.59	2
135	76	JT 4.5" 11.6# LTC	40.52	3,425.93	8,934.07	3
136	X	PUP 4.5" 11.6# P-110 LTC	2.41	3,428.34	8,931.66	
137	P14	RE PACKER #14	7.69	3,436.03	8,923.97	CENTER OF PACKER: 8,927.82
138	X	PUP 4.5" 11.6# P-110 LTC	4.15	3,440.18	8,919.82	
139	77	JT 4.5" 11.6# LTC	40.44	3,480.62	8,879.38	1
140	78	JT 4.5" 11.6# LTC	40.19	3,520.81	8,839.19	2
141	79	JT 4.5" 11.6# LTC	40.53	3,561.34	8,798.66	3
142	S16	3.250" FRAC-SLEEVE	2.41	3,563.75	8,796.25	
143	80	JT 4.5" 11.6# LTC	40.34	3,604.09	8,755.91	1
144	81	JT 4.5" 11.6# LTC	40.35	3,644.44	8,715.56	2
145	82	JT 4.5" 11.6# LTC	40.67	3,685.11	8,674.89	3
146	X	PUP 4.5" 11.6# P-110 LTC	2.38	3,687.49	8,672.51	
147	P15	RE PACKER #15	7.69	3,695.18	8,664.82	CENTER OF PACKER: 8,668.67
148	X	PUP 4.5" 11.6# P-110 LTC	4.17	3,699.35	8,660.65	
149	83	JT 4.5" 11.6# LTC	39.87	3,739.22	8,620.78	1
150	84	JT 4.5" 11.6# LTC	39.22	3,778.44	8,581.56	2
151	85	JT 4.5" 11.6# LTC	39.16	3,817.60	8,542.40	3
152	S17	3.375" FRAC-SLEEVE	2.41	3,820.01	8,539.99	
153	86	JT 4.5" 11.6# LTC	40.15	3,860.16	8,499.84	1
154	87	JT 4.5" 11.6# LTC	40.79	3,900.95	8,459.05	2
155	X	PUP 4.5" 11.6# P-110 LTC	2.40	3,903.35	8,456.65	
156	P16	RE PACKER #16	7.69	3,911.04	8,448.96	CENTER OF PACKER: 8,452.81
157	X	PUP 4.5" 11.6# P-110 LTC	4.14	3,915.18	8,444.82	
158	88	JT 4.5" 11.6# LTC	40.58	3,955.76	8,404.24	1
159	89	JT 4.5" 11.6# LTC	39.82	3,995.58	8,364.42	2
160	90	JT 4.5" 11.6# LTC	40.30	4,035.88	8,324.12	3
161	S18	3.500" FRAC-SLEEVE	2.41	4,038.29	8,321.71	
162	91	JT 4.5" 11.6# LTC	40.18	4,078.47	8,281.53	1



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OPENHOLE TD

12,370.00

Item #	Joint #	DESCRIPTION:	LENGTH:	ACC. LENGTH	DEPTH	COMMENTS:
					12,360.00	
163	92	JT 4.5" 11.6# LTC	40.29	4,118.76	8,241.24	2
164	X	PUP 4.5" 11.6# P-110 LTC	2.39	4,121.15	8,238.85	
165	P17	RE PACKER #17	7.68	4,128.83	8,231.17	CENTER OF PACKER: 8,235.01
166	X	PUP 4.5" 11.6# P-110 LTC	4.16	4,132.99	8,227.01	
167	93	JT 4.5" 11.6# LTC	39.95	4,172.94	8,187.06	1
168	94	JT 4.5" 11.6# LTC	40.47	4,213.41	8,146.59	2
169	S19	3.625" FRAC-SLEEVE	2.41	4,215.82	8,144.18	
170	95	JT 4.5" 11.6# LTC	40.37	4,256.19	8,103.81	1
171	96	JT 4.5" 11.6# LTC	39.81	4,296.00	8,064.00	2
172	X	PUP 4.5" 11.6# P-110 LTC	2.40	4,298.40	8,061.60	
173	P18	RE PACKER #18	7.68	4,306.08	8,053.92	CENTER OF PACKER: 8,057.76
174	X	PUP 4.5" 11.6# P-110 LTC	4.15	4,310.23	8,049.77	
175	97	JT 4.5" 11.6# LTC	40.15	4,350.38	8,009.62	1
176	98	JT 4.5" 11.6# LTC	40.50	4,390.88	7,969.12	2
177	99	JT 4.5" 11.6# LTC	40.24	4,431.12	7,928.88	3
178	100	JT 4.5" 11.6# LTC	40.90	4,472.02	7,887.98	4
179	101	JT 4.5" 11.6# LTC	40.20	4,512.22	7,847.78	SHOE- 7,825'
180	102	JT 4.5" 11.6# LTC	40.57	4,552.79	7,807.21	6
181	103	JT 4.5" 11.6# LTC	40.68	4,593.47	7,766.53	7
182	X	PUP 4.5" 11.6# P-110 LTC	2.39	4,595.86	7,764.14	
183	P19	RE PACKER #19	7.68	4,603.54	7,756.46	CENTER OF PACKER: 7,760.30
184	X	PUP 4.5" 11.6# P-110 LTC	4.15	4,607.69	7,752.31	
185	104	JT 4.5" 11.6# LTC	40.36	4,648.05	7,711.95	
186	105	JT 4.5" 11.6# LTC	39.53	4,687.58	7,672.42	
187	106	JT 4.5" 11.6# LTC	40.48	4,728.06	7,631.94	
188	107	JT 4.5" 11.6# LTC	40.27	4,768.33	7,591.67	
189	108	JT 4.5" 11.6# LTC	40.47	4,808.80	7,551.20	
190	109	JT 4.5" 11.6# LTC	42.15	4,850.95	7,509.05	
191	110	JT 4.5" 11.6# LTC	42.80	4,893.75	7,466.25	
192	111	JT 4.5" 11.6# LTC	42.49	4,936.24	7,423.76	
193	112	JT 4.5" 11.6# LTC	42.74	4,978.98	7,381.02	KOP- 7,365'
194	113	JT 4.5" 11.6# LTC	42.73	5,021.71	7,338.29	
195	114	JT 4.5" 11.6# LTC	42.85	5,064.56	7,295.44	
196	115	JT 4.5" 11.6# LTC	42.82	5,107.38	7,252.62	
197	PUP	4.5" 11.6# PUP LTC	5.48	5,112.86	7,247.14	
198	XOVER	LOWER PBR XOVER	2.00	5,114.86	7,245.14	
199	S3	S-3 CASING PACKER	4.62	5,119.48	7,240.52	
200	PBR	15' EXTENSION	19.12	5,138.60	7,221.40	LINER TOP- 7,221.4'
201	S/U	DP STICKUP - 3-1/2 IF	9.75	5,148.35	7,211.65	
202	B/S	BUMPER SUB	7.59	5,155.94	7,204.06	
203	L/S	LIFT SUB	7.55	5,163.49	7,196.51	
X	X	HWDP	30.97	5,194.46	7,165.54	
XX	XX	HWDP	30.9	5,225.36	7,134.64	
1	1	HWDP	30.98	5,256.34	7,103.66	
X	X	HWDP	29.77	5,286.11	7,073.89	
XX	XX	HWDP	31.31	5,317.42	7,042.58	
2	2	HWDP	30.95	5,348.37	7,011.63	
X	X	HWDP	31.28	5,379.65	6,980.35	
XX	XX	HWDP	31.23	5,410.88	6,949.12	
3	3	HWDP	30.39	5,441.27	6,918.73	
X	X	HWDP	31.32	5,472.59	6,887.41	
XX	XX	HWDP	30.77	5,503.36	6,856.64	
4	4	HWDP	31.08	5,534.44	6,825.56	
X	X	HWDP	31.29	5,565.73	6,794.27	



Baker Oil Tools

TALLY SHEET

CUSTOMER	Bill Barrett
WELL NAME	ST. OF CO. N 1S-66-36-1609CDH
DATE	3/16/2014
SERVICE REP	TR PLUMMER / GUS BAGNER

			OPENHOLE TD		12,370.00	COMMENTS:
Item #	Joint #	DESCRIPTION:	LENGTH:	ACC. LENGTH	DEPTH	
					12,360.00	
XX	XX	HWDP	29.71	5,595.44	6,764.56	
5	5	HWDP	31.35	5,626.79	6,733.21	
X	X	HWDP	30.67	5,657.46	6,702.54	
XX	XX	HWDP	30.7	5,688.16	6,671.84	
6	6	HWDP	31.18	5,719.34	6,640.66	
X	X	HWDP	30.35	5,749.69	6,610.31	
XX	XX	HWDP	30.76	5,780.45	6,579.55	
7	7	HWDP	31.31	5,811.76	6,548.24	
X	X	HWDP	30.17	5,841.93	6,518.07	
XX	XX	HWDP	30.56	5,872.49	6,487.51	
8	8	HWDP	30.68	5,903.17	6,456.83	
X	X	HWDP	30.67	5,933.84	6,426.16	
XX	XX	HWDP	31.24	5,965.08	6,394.92	
9	9	HWDP	30.68	5,995.76	6,364.24	
X	X	HWDP	31.18	6,026.94	6,333.06	
XX	XX	HWDP	30.87	6,057.81	6,302.19	
10	10	HWDP	30.66	6,088.47	6,271.53	
X	X	HWDP	30.69	6,119.16	6,240.84	
XX	XX	HWDP	30.39	6,149.55	6,210.45	
11	11	HWDP	31.28	6,180.83	6,179.17	
X	X	HWDP	31.31	6,212.14	6,147.86	
XX	XX	HWDP	30.64	6,242.78	6,117.22	
12	12	HWDP	30.65	6,273.43	6,086.57	
X	X	HWDP	31.34	6,304.77	6,055.23	
XX	XX	HWDP	30.71	6,335.48	6,024.52	
13	13	HWDP	31.05	6,366.53	5,993.47	
X	X	HWDP	31.34	6,397.87	5,962.13	
XX	XX	HWDP	30.48	6,428.35	5,931.65	
14	14	HWDP	30.67	6,459.02	5,900.98	
X	X	HWDP	31.16	6,490.18	5,869.82	
XX	XX	HWDP	31.22	6,521.40	5,838.60	
15	15	HWDP	31.27	6,552.67	5,807.33	
X	X	4" DP 14#	31.88	6,584.55	5,775.45	
XX	XX	4" DP 14#	31.74	6,616.29	5,743.71	
16	1	4" DP 14#	31.83	6,648.12	5,711.88	
X	X	4" DP 14#	32.2	6,680.32	5,679.68	
XX	XX	4" DP 14#	31.32	6,711.64	5,648.36	
17	2	4" DP 14#	32.02	6,743.66	5,616.34	
X	X	4" DP 14#	30.19	6,773.85	5,586.15	
XX	XX	4" DP 14#	32.18	6,806.03	5,553.97	
18	3	4" DP 14#	31.76	6,837.79	5,522.21	
X	X	4" DP 14#	31.54	6,869.33	5,490.67	
XX	XX	4" DP 14#	32.12	6,901.45	5,458.55	
19	4	4" DP 14#	32.07	6,933.52	5,426.48	
X	X	4" DP 14#	31.4	6,964.92	5,395.08	
XX	XX	4" DP 14#	31.55	6,996.47	5,363.53	
20	5	4" DP 14#	32.32	7,028.79	5,331.21	
X	X	4" DP 14#	32.1	7,060.89	5,299.11	
XX	XX	4" DP 14#	31.88	7,092.77	5,267.23	
21	6	4" DP 14#	32.37	7,125.14	5,234.86	
X	X	4" DP 14#	31.57	7,156.71	5,203.29	
XX	XX	4" DP 14#	32.29	7,189.00	5,171.00	
22	7	4" DP 14#	31.5	7,220.50	5,139.50	
X	X	4" DP 14#	31.38	7,251.88	5,108.12	



Baker Oil Tools

TALLY SHEET

CUSTOMER	Bill Barrett
WELL NAME	ST. OF CO. N 1S-66-36-1609CDH
DATE	3/16/2014
SERVICE REP	TR PLUMMER / GUS BAGNER

			OPENHOLE TD		12,370.00	COMMENTS:
Item #	Joint #	DESCRIPTION:	LENGTH:	ACC. LENGTH	DEPTH	
					12,360.00	
XX	XX	4" DP 14#	31.76	7,283.64	5,076.36	
23	8	4" DP 14#	31.84	7,315.48	5,044.52	
X	X	4" DP 14#	32.07	7,347.55	5,012.45	
XX	XX	4" DP 14#	31.9	7,379.45	4,980.55	
24	9	4" DP 14#	32.62	7,412.07	4,947.93	
X	X	4" DP 14#	31.85	7,443.92	4,916.08	
XX	XX	4" DP 14#	31.79	7,475.71	4,884.29	
25	10	4" DP 14#	32.63	7,508.34	4,851.66	
X	X	4" DP 14#	31.81	7,540.15	4,819.85	
XX	XX	4" DP 14#	31.82	7,571.97	4,788.03	
26	11	4" DP 14#	31.76	7,603.73	4,756.27	
X	X	4" DP 14#	32.04	7,635.77	4,724.23	
XX	XX	4" DP 14#	32.25	7,668.02	4,691.98	
27	12	4" DP 14#	31.84	7,699.86	4,660.14	
X	X	4" DP 14#	32.36	7,732.22	4,627.78	
XX	XX	4" DP 14#	31.82	7,764.04	4,595.96	
28	13	4" DP 14#	31.38	7,795.42	4,564.58	
X	X	4" DP 14#	31.67	7,827.09	4,532.91	
XX	XX	4" DP 14#	31.81	7,858.90	4,501.10	
29	14	4" DP 14#	31.83	7,890.73	4,469.27	
X	X	4" DP 14#	32.21	7,922.94	4,437.06	
XX	XX	4" DP 14#	31.78	7,954.72	4,405.28	
30	15	4" DP 14#	31.85	7,986.57	4,373.43	
X	X	4" DP 14#	32.25	8,018.82	4,341.18	
XX	XX	4" DP 14#	31.7	8,050.52	4,309.48	
31	16	4" DP 14#	31.39	8,081.91	4,278.09	
X	X	4" DP 14#	32.13	8,114.04	4,245.96	
XX	XX	4" DP 14#	31.75	8,145.79	4,214.21	
32	17	4" DP 14#	31.78	8,177.57	4,182.43	
X	X	4" DP 14#	32.36	8,209.93	4,150.07	
XX	XX	4" DP 14#	31.57	8,241.50	4,118.50	
33	18	4" DP 14#	32.25	8,273.75	4,086.25	
X	X	4" DP 14#	31.69	8,305.44	4,054.56	
XX	XX	4" DP 14#	31.92	8,337.36	4,022.64	
34	19	4" DP 14#	31.54	8,368.90	3,991.10	
X	X	4" DP 14#	32.24	8,401.14	3,958.86	
XX	XX	4" DP 14#	31.96	8,433.10	3,926.90	
35	20	4" DP 14#	31.76	8,464.86	3,895.14	
X	X	4" DP 14#	31.68	8,496.54	3,863.46	
XX	XX	4" DP 14#	31.79	8,528.33	3,831.67	
36	21	4" DP 14#	31.54	8,559.87	3,800.13	
X	X	4" DP 14#	31.9	8,591.77	3,768.23	
XX	XX	4" DP 14#	32.14	8,623.91	3,736.09	
37	22	4" DP 14#	32.51	8,656.42	3,703.58	
X	X	4" DP 14#	31.89	8,688.31	3,671.69	
XX	XX	4" DP 14#	31.63	8,719.94	3,640.06	
38	23	4" DP 14#	31.62	8,751.56	3,608.44	
X	X	4" DP 14#	31.88	8,783.44	3,576.56	
XX	XX	4" DP 14#	31.97	8,815.41	3,544.59	
39	24	4" DP 14#	31.98	8,847.39	3,512.61	
X	X	4" DP 14#	32.19	8,879.58	3,480.42	
XX	XX	4" DP 14#	31.82	8,911.40	3,448.60	
40	25	4" DP 14#	32.44	8,943.84	3,416.16	
X	X	4" DP 14#	32.28	8,976.12	3,383.88	



Baker Oil Tools

TALLY SHEET

CUSTOMER	Bill Barrett
WELL NAME	ST. OF CO. N 1S-66-36-1609CDH
DATE	3/16/2014
SERVICE REP	TR PLUMMER / GUS BAGNER

			OPENHOLE TD		12,370.00	COMMENTS:
Item #	Joint #	DESCRIPTION:	LENGTH:	ACC. LENGTH	DEPTH	
					12,360.00	
XX	XX	4" DP 14#	31.85	9,007.97	3,352.03	
41	26	4" DP 14#	32.28	9,040.25	3,319.75	
X	X	4" DP 14#	32.42	9,072.67	3,287.33	
XX	XX	4" DP 14#	31.71	9,104.38	3,255.62	
42	27	4" DP 14#	31.84	9,136.22	3,223.78	
X	X	4" DP 14#	32.55	9,168.77	3,191.23	
XX	XX	4" DP 14#	32.53	9,201.30	3,158.70	
43	28	4" DP 14#	31.48	9,232.78	3,127.22	
X	X	4" DP 14#	31.81	9,264.59	3,095.41	
XX	XX	4" DP 14#	32.16	9,296.75	3,063.25	
44	29	4" DP 14#	32.16	9,328.91	3,031.09	
X	X	4" DP 14#	31.56	9,360.47	2,999.53	
XX	XX	4" DP 14#	31.67	9,392.14	2,967.86	
45	30	4" DP 14#	31.83	9,423.97	2,936.03	
X	X	4" DP 14#	31.72	9,455.69	2,904.31	
XX	XX	4" DP 14#	32.35	9,488.04	2,871.96	
46	31	4" DP 14#	31.89	9,519.93	2,840.07	
X	X	4" DP 14#	32.18	9,552.11	2,807.89	
XX	XX	4" DP 14#	31.55	9,583.66	2,776.34	
47	32	4" DP 14#	31.92	9,615.58	2,744.42	
X	X	4" DP 14#	32.36	9,647.94	2,712.06	
XX	XX	4" DP 14#	31.96	9,679.90	2,680.10	
48	33	4" DP 14#	31.78	9,711.68	2,648.32	
X	X	4" DP 14#	32.19	9,743.87	2,616.13	
XX	XX	4" DP 14#	31.79	9,775.66	2,584.34	
49	34	4" DP 14#	32.37	9,808.03	2,551.97	
X	X	4" DP 14#	32.21	9,840.24	2,519.76	
XX	XX	4" DP 14#	32.6	9,872.84	2,487.16	
50	35	4" DP 14#	32.65	9,905.49	2,454.51	
X	X	4" DP 14#	31.67	9,937.16	2,422.84	
XX	XX	4" DP 14#	31.9	9,969.06	2,390.94	
51	36	4" DP 14#	31.71	10,000.77	2,359.23	
X	X	4" DP 14#	32.04	10,032.81	2,327.19	
XX	XX	4" DP 14#	32.02	10,064.83	2,295.17	
52	37	4" DP 14#	32.07	10,096.90	2,263.10	
X	X	4" DP 14#	31.89	10,128.79	2,231.21	
XX	XX	4" DP 14#	32.62	10,161.41	2,198.59	
53	38	4" DP 14#	32.27	10,193.68	2,166.32	
X	X	4" DP 14#	32.45	10,226.13	2,133.87	
XX	XX	4" DP 14#	31.62	10,257.75	2,102.25	
54	39	4" DP 14#	32.01	10,289.76	2,070.24	
X	X	4" DP 14#	32.03	10,321.79	2,038.21	
XX	XX	4" DP 14#	31.92	10,353.71	2,006.29	
55	40	4" DP 14#	31.05	10,384.76	1,975.24	
X	X	4" DP 14#	31.56	10,416.32	1,943.68	
XX	XX	4" DP 14#	31.69	10,448.01	1,911.99	
56	41	4" DP 14#	32.17	10,480.18	1,879.82	
X	X	4" DP 14#	32.18	10,512.36	1,847.64	
XX	XX	4" DP 14#	31.98	10,544.34	1,815.66	
57	42	4" DP 14#	32.6	10,576.94	1,783.06	
X	X	4" DP 14#	31.73	10,608.67	1,751.33	
XX	XX	4" DP 14#	32.65	10,641.32	1,718.68	
58	43	4" DP 14#	31.86	10,673.18	1,686.82	
X	X	4" DP 14#	31.58	10,704.76	1,655.24	



Baker Oil Tools

TALLY SHEET

CUSTOMER

Bill Barrett

WELL NAME

ST. OF CO. N 1S-66-36-1609CDH

DATE

3/16/2014

SERVICE REP

TR PLUMMER / GUS BAGNER

OPENHOLE TD

12,370.00

Item #	Joint #	DESCRIPTION:	LENGTH:	ACC. LENGTH	DEPTH	COMMENTS:
					12,360.00	
XX	XX	4" DP 14#	31.87	10,736.63	1,623.37	
59	44	4" DP 14#	31.89	10,768.52	1,591.48	
X	X	4" DP 14#	32.42	10,800.94	1,559.06	
XX	XX	4" DP 14#	32.5	10,833.44	1,526.56	
60	45	4" DP 14#	32.63	10,866.07	1,493.93	
X	X	4" DP 14#	31.48	10,897.55	1,462.45	
XX	XX	4" DP 14#	31.23	10,928.78	1,431.22	
61	46	4" DP 14#	31.92	10,960.70	1,399.30	
X	X	4" DP 14#	32.47	10,993.17	1,366.83	
XX	XX	4" DP 14#	32.31	11,025.48	1,334.52	
62	47	4" DP 14#	32.19	11,057.67	1,302.33	
X	X	4" DP 14#	31.28	11,088.95	1,271.05	
XX	XX	4" DP 14#	32.29	11,121.24	1,238.76	
63	48	4" DP 14#	31.74	11,152.98	1,207.02	
X	X	4" DP 14#	32.31	11,185.29	1,174.71	
XX	XX	4" DP 14#	32.25	11,217.54	1,142.46	
64	49	4" DP 14#	31.3	11,248.84	1,111.16	
X	X	4" DP 14#	31.82	11,280.66	1,079.34	
XX	XX	4" DP 14#	32.53	11,313.19	1,046.81	
65	50	4" DP 14#	31.47	11,344.66	1,015.34	
X	X	4" DP 14#	32.15	11,376.81	983.19	
XX	XX	4" DP 14#	32.62	11,409.43	950.57	
66	51	4" DP 14#	31.52	11,440.95	919.05	
X	X	4" DP 14#	32.19	11,473.14	886.86	
XX	XX	4" DP 14#	31.82	11,504.96	855.04	
67	52	4" DP 14#	32.51	11,537.47	822.53	
X	X	4" DP 14#	31.69	11,569.16	790.84	
XX	XX	4" DP 14#	31.42	11,600.58	759.42	
68	53	4" DP 14#	31.48	11,632.06	727.94	
X	X	4" DP 14#	31.65	11,663.71	696.29	
XX	XX	4" DP 14#	31.95	11,695.66	664.34	
69	54	4" DP 14#	31.58	11,727.24	632.76	
X	X	4" DP 14#	31.97	11,759.21	600.79	
XX	XX	4" DP 14#	31.83	11,791.04	568.96	
70	55	4" DP 14#	32.05	11,823.09	536.91	
X	X	4" DP 14#	32.31	11,855.40	504.60	
XX	XX	4" DP 14#	31.47	11,886.87	473.13	
71	56	4" DP 14#	31.62	11,918.49	441.51	
X	X	4" DP 14#	31.42	11,949.91	410.09	
XX	XX	4" DP 14#	31.57	11,981.48	378.52	
72	57	4" DP 14#	31.68	12,013.16	346.84	
X	X	4" DP 14#	31.55	12,044.71	315.29	
XX	XX	4" DP 14#	31.5	12,076.21	283.79	
73	58	4" DP 14#	31.34	12,107.55	252.45	
X	X	4" DP 14#	32.5	12,140.05	219.95	
XX	XX	4" DP 14#	31.53	12,171.58	188.42	
74	59	4" DP 14#	31.54	12,203.12	156.88	
X	X	4" DP 14#	31.46	12,234.58	125.42	
XX	XX	4" DP 14#	31.76	12,266.34	93.66	
75	60	4" DP 14#	32.03	12,298.37	61.63	
X	X	4" DP 14#	31.57	12,329.94	30.06	
XX	XX	4" DP 14#	32.13	12,362.07	(2.07)	
76	61	4" DP 14#	32.2	12,394.27	(34.27)	
				12,394.27	(34.27)	



Baker Oil Tools

Casper, Wyoming

CUSTOMER: **BILL BARRETT CORP.**LEASE/WELL: **State of CO N 1S-66-36-1609CDH**DATE: **March 12, 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 #: **5501852811**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

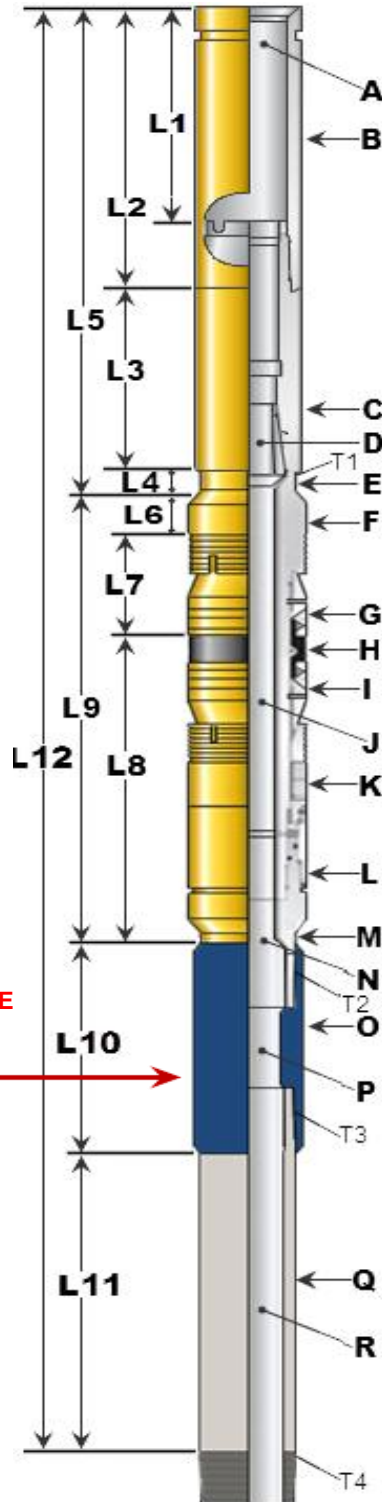
Casper, Wyoming

CUSTOMER: **BILL BARRETT CORP.**LEASE/WELL: **State of CO N 1S-66-36-1609BH**DATE: **March 12, 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 HR PROFILE & 15' EXTENSION

DIMENSIONS		THREAD INFO	
A (in)	5.250	T1 - Thread	4 1/2" VamTop 12.6#
B (in)	5.812	T1 - Torque	6150
C (in)	5.750	T2 - Thread	4 1/2" VamTop 12.6#
D (in)	3.937	T2 - Torque	6150
E (in)	4.937	T3 - Thread	4 1/2" LTC 11.5#
F (in)	5.937	T3 - Torque	3020
G (in)	5.812	★T4 - Thread★	4 1/2" LTC 11.5#
H (in)	5.750	T4 - Torque	3020
I (in)	5.812	S-3 INFO	
J (in)	3.875		
K (in)	5.875		
L (in)	5.937		
M (in)	4.500		
N (in)	3.937		
O (in)	5.062	# SHEAR SCREWS	8
P (in)	3.875	PRESSURE/SCREW	247
Q (in)	4.500	ACTIVATION PRESSURE	1976
R (in)	4.000	PACKOFF PRESSURE	5000
L1 (ft)	15.13	DRIFT (in)	
L2 (ft)	15.50		
L3 (ft)	3.23	SLIPS VISUALLY CHECKED	
L4 (ft)	0.39		
L5 (ft)	19.12		
L6 (ft)	1.22		
L7 (ft)	0.51		
L8 (ft)	2.89		
L9 (ft)	4.62		
L10 (ft)	2.00		
L11 (ft)	5.48		
L12 (ft)	31.21		

PRODUCT INFORMATION

15' Extension	H037099701	Qty	1
HR Profile	H036503801	Qty	1
S-3 Hyd Packer	H409400024	Qty	1
3.875 PBR	10287024	Qty	1
6' LTC Pup	H299920030	Qty	1

Zack / David 3-11-14

ASSEMBLED BY:

Trottier 3-12-14

APPROVED BY:

<p>Baker Oil Tools</p> <p>Casper, WY</p>	<p>CUSTOMER: <u>BILL BARRETT CORP.</u></p> <p>LEASE/WELL: <u>State of CO N 1S-66-36-1609BH</u></p> <p>DATE: <u>March 12, 2014</u></p>	<p>307-233-1277</p>							
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
HR RUNNING TOOL ASSEMBLY									
OD / ID									
A (in)	4.750								
B (in)	3.500								
C (in)	5.187								
D (in)	5.750								
E (in)	2.687								
F (in)	4.750								
G (in)	4.750								
H (in)	3.500								
I (in)	2.687								
J (in)	4.750								
K (in)	2.437								
L (in)	5.281								
M (in)	4.875								
N (in)	2.000								
O (in)	5.125								
P (in)	2.000								
Q (in)	4.750								
R (in)	4.312								
S (in)	3.500								
AA (in)	3.000								
BB (in)	2.000								
CC (in)	3.062								
DD (in)	1.531								
EE (in)	3.062								
FF (in)	3.062								
GG (in)	2.000								
HH (in)	3.250								
II (in)	2.062								
JJ (in)	3.843								
KK (in)	3.250								
LL (in)	2.375								
MM (in)	2.000								
NN (in)	3.062								
OO (in)	1.375								
Drift:	1.901"								
Lengths									
L1 (ft)	1.34								
L2 (ft)	13.66								
L3 (ft)	1.26								
L4 (ft)	1.34								
L5 (ft)	7.67								
L6 (ft)	1.27								
L7 (ft)	1.52								
L8 (ft)	1.98								
L9 (ft)	1.78								
L10 (ft)	0.71								
L11 (ft)	27.35								
L12 (ft)	0.28								
L13 (ft)	0.62								
L14 (ft)	0.41								
L15 (ft)	5.14								
L16 (ft)	1.38								
L17 (ft)	5.68								
L18 (ft)	0.79								
L19 (ft)	14.29								
PACKOFF (ft)	12.50								
STICKUP (ft)	9.75								
Total (ft)	41.64								
Packoff P/U:	22.25								
Threads									
T1	3 1/2" IF								
T2	2 3/8" EUE								
T6	2 3/8" EUE								
Torque -Ft/Lb									
IF	9000								
EUE	1790								
HR Info									
# Hyd. Shear Pins	2								
PSI/Pin	413								
Hyd. Release PSI	826								
# LH Release Pins	2								
LH ft-lbs/Pin	1150								
LH Release ft-lbs	2300								
UPPER F-SUB-Release HR (Brass +/- 15%)									
Ball Size (in)	1.750								
# Pins	5								
PSI / PIN	424								
Shear PSI	2120								
LOWER F-SUB-Hanger Set-Backup (Brass +/- 15%)									
Ball Size (in)	1.500								
# Pins	9								
PSI / PIN	424								
Shear PSI	3816								
Description	SERIAL #								
14' Pup	ZCA00112								
8' Pup	ZCA00103								
5.250" Pack Off	ZRC1037								
HR Setting Tool	10035483								
1.750" F-Sub	NSN								
3.875" Pack Off	NSN								
1.500" F-Sub	NSN								

Zack / David 3-11-14

Assembled By: _____

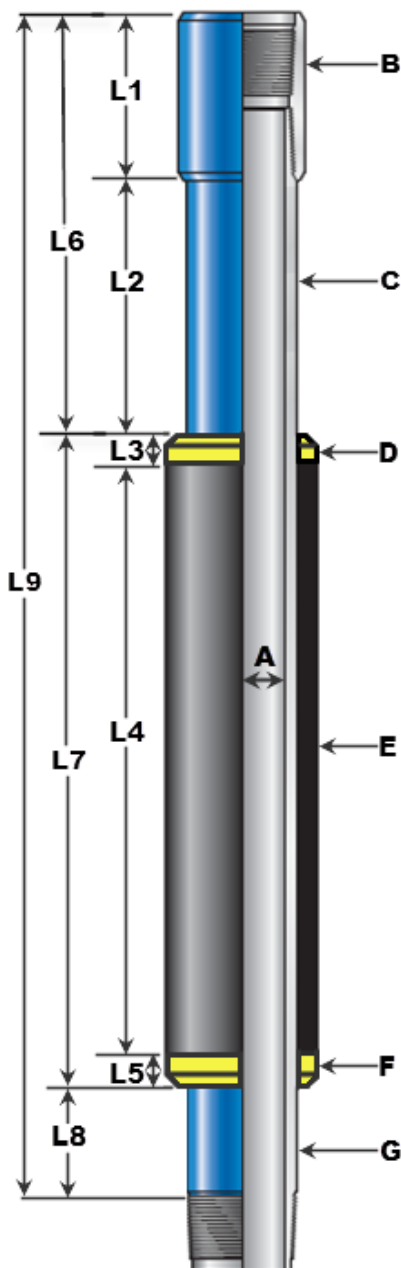
Trottier 3-12-14

Approved By: _____

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#:	4506528364-98	4506528374-42	4506487469-18	4506528374-49	4506528364-92
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)	4.500	4.500	4.500	4.500	4.500
★ 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)	4.500	4.500	4.500	4.500	4.500
L1 (ft)	0.59	0.59	0.59	0.59	0.59
L2 (ft)	3.57	3.57	3.56	3.59	3.56
L3 (ft)	0.34	0.34	0.34	0.34	0.34
L4 (ft)	7.00	7.00	6.99	7.00	7.01
L5 (ft)	0.34	0.34	0.34	0.34	0.34
L6 (ft)	4.16	4.16	4.14	4.18	4.16
L7 (ft)	7.67	7.67	7.67	7.67	7.68
L8 (ft)	2.41	2.41	2.41	2.40	2.40
L9 (ft)	14.23	14.23	14.21	14.23	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

Pat / Jeremiah / Steven 3-10-14

TESTED & INSPECTED BY / DATE:

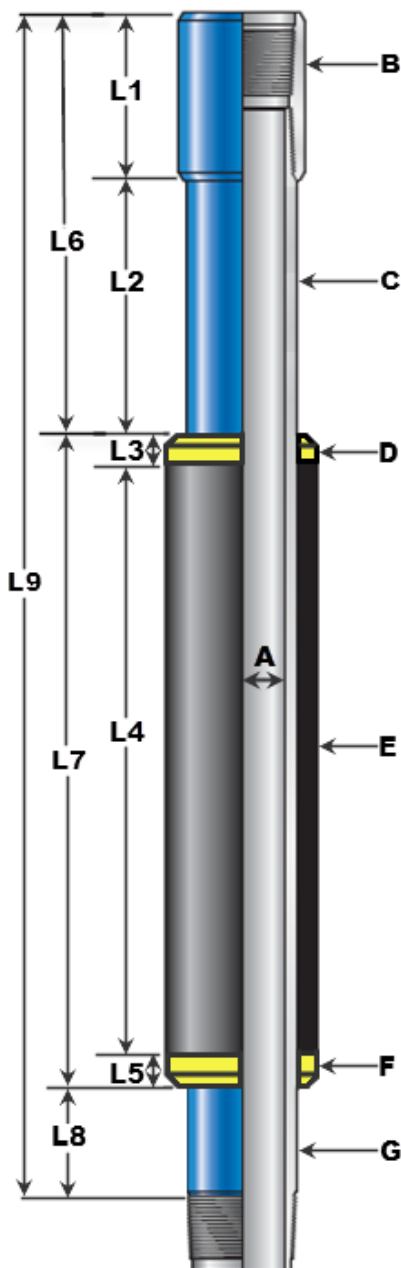
Trottier 3-12-14

APPROVED BY / DATE:

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#:	4506487454-32	4506528374-74	4506528374-59	4506528374-58	4506528374-27
A (in)	4.000	4.000	4.000	4.000	4.000
B (in)	4.968	4.968	4.968	4.968	4.968
C (in)	4.500	4.500	4.500	4.500	4.500
★ D (in) ★	5.750	5.750	5.750	5.750	5.750
★ E (in) ★	5.750	5.750	5.750	5.750	5.750
★ F (in) ★	5.750	5.750	5.750	5.750	5.750
G (in)	4.500	4.500	4.500	4.500	4.500
L1 (ft)	0.59	0.59	0.59	0.59	0.59
L2 (ft)	3.52	3.56	3.58	3.58	3.57
L3 (ft)	0.34	0.34	0.34	0.34	0.34
L4 (ft)	6.99	7.00	7.00	7.00	7.00
L5 (ft)	0.34	0.34	0.34	0.34	0.34
L6 (ft)	4.11	4.15	4.17	4.17	4.16
L7 (ft)	7.67	7.68	7.68	7.68	7.67
L8 (ft)	2.45	2.41	2.39	2.40	2.40
L9 (ft)	14.22	14.24	14.23	14.24	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

Pat / Jeremiah / Steven 3-10-14

TESTED & INSPECTED BY / DATE:

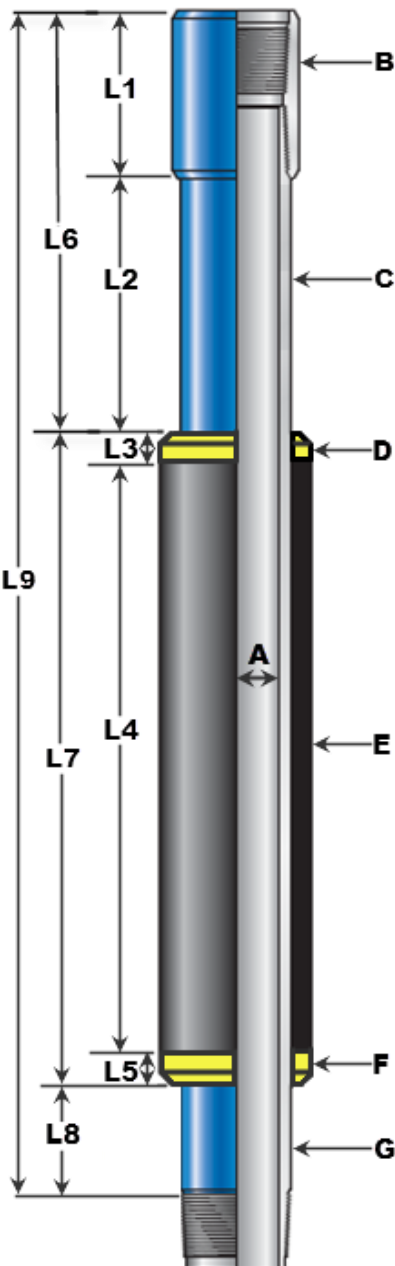
Trottier 3-12-14

APPROVED BY / DATE:

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			
	11	12	13	14	15
WO#:	4505528377-57	4505528377-58	4505528377-44	4505528377-45	4505528377-46
A (in)	4.000	4.000	4.000	4.000	4.000
B (in)	4.968	4.968	4.968	4.968	4.968
C (in)	4.500	4.500	4.500	4.500	4.500
★ D (in) ★	5.750	5.750	5.750	5.750	5.750
★ E (in) ★	5.750	5.750	5.750	5.750	5.750
★ F (in) ★	5.750	5.750	5.750	5.750	5.750
G (in)	4.500	4.500	4.500	4.500	4.500
L1 (ft)	0.59	0.59	0.59	0.59	0.59
L2 (ft)	3.58	3.56	3.58	3.56	3.58
L3 (ft)	0.34	0.34	0.34	0.34	0.34
L4 (ft)	7.00	7.00	7.02	7.00	7.01
L5 (ft)	0.34	0.34	0.34	0.34	0.34
L6 (ft)	4.16	4.15	4.16	4.15	4.17
L7 (ft)	7.67	7.68	7.69	7.68	7.69
L8 (ft)	2.40	2.40	2.38	2.41	2.38
L9 (ft)	14.23	14.23	14.22	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

Pat / Jeremiah / Steven 3-10-14

TESTED & INSPECTED BY / DATE:

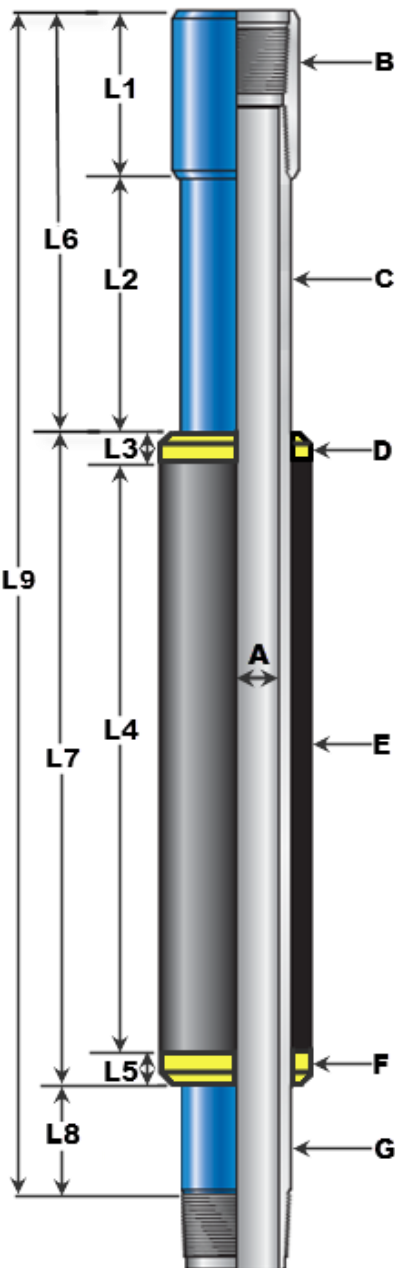
Trottier 3-12-14

APPROVED BY / DATE:

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				
	16	17	18	19	EXTRA
WO#:	4505528377-90	4505528377-74	4505528377-61	4505528377-62	4505528377-63
A (in)	4.000	4.000	4.000	4.000	4.000
B (in)	4.968	4.968	4.968	4.968	4.968
C (in)	4.500	4.500	4.500	4.500	4.500
★ 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)	4.500	4.500	4.500	4.500	4.500
L1 (ft)	0.59	0.59	0.59	0.59	0.59
L2 (ft)	3.57	3.57	3.57	3.57	3.57
L3 (ft)	0.34	0.34	0.34	0.34	0.34
L4 (ft)	7.02	7.01	7.00	7.01	7.02
L5 (ft)	0.34	0.34	0.34	0.34	0.34
L6 (ft)	4.14	4.16	4.15	4.15	4.16
L7 (ft)	7.69	7.69	7.68	7.68	7.69
L8 (ft)	2.40	2.39	2.40	2.39	2.38
L9 (ft)	14.23	14.22	14.23	14.24	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

Pat / Jeremiah / Steven 3-10-14

TESTED & INSPECTED BY / DATE:

Trottier 3-12-14

APPROVED BY / DATE:



Baker Oil Tools

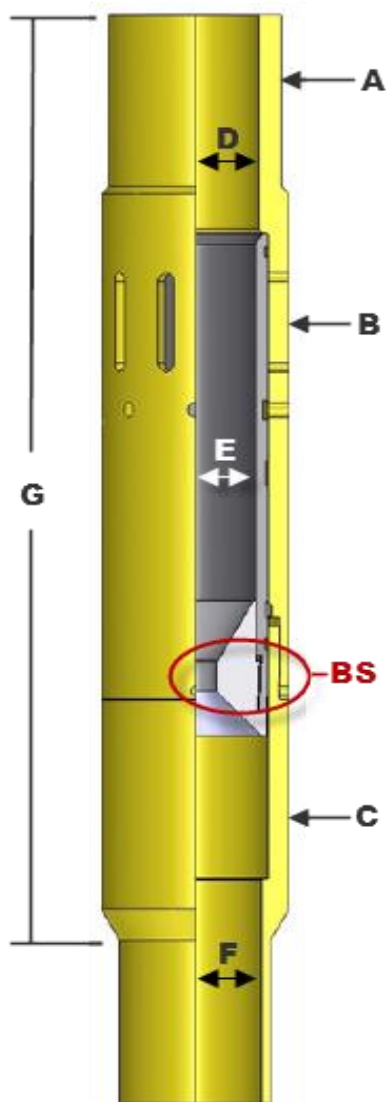
Casper, Wyoming

CUSTOMER: **BILL BARRETT CORP.**LEASE/WELL: **State of CO N 1S-66-36-1609CDH**DATE: **March 12, 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)	2.41	2.40	2.41	2.41	2.41

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 #	5501852811
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Pat / Jeremiah / Steven 3-10-14

TESTED & INSPECTED BY / DATE:

Trottier 3-12-14

APPROVED BY / DATE:



Baker Oil Tools

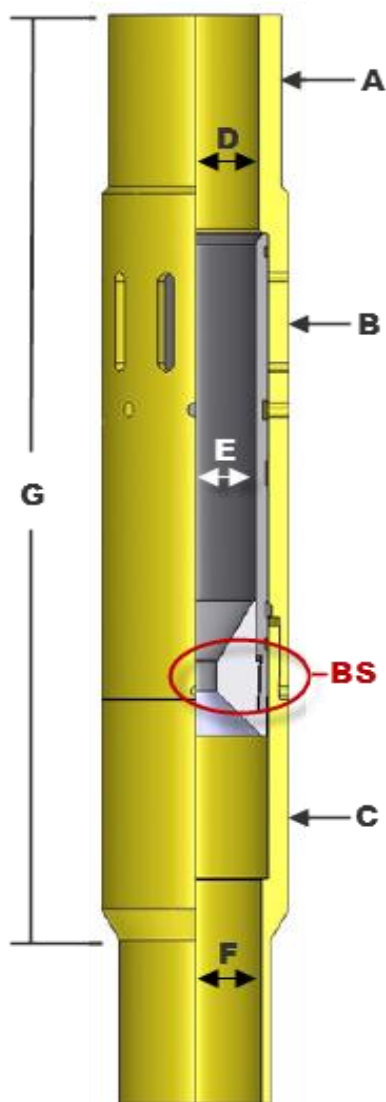
Casper, Wyoming

CUSTOMER: **BILL BARRETT CORP.**LEASE/WELL: **State of CO N 1S-66-36-1609CDH**DATE: **March 12, 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)	2.41	2.41	2.41	2.41	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 #	5501852811
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Pat / Jeremiah / Steven 3-10-14

TESTED & INSPECTED BY / DATE:

Trottier 3-12-14

APPROVED BY / DATE:



Baker Oil Tools

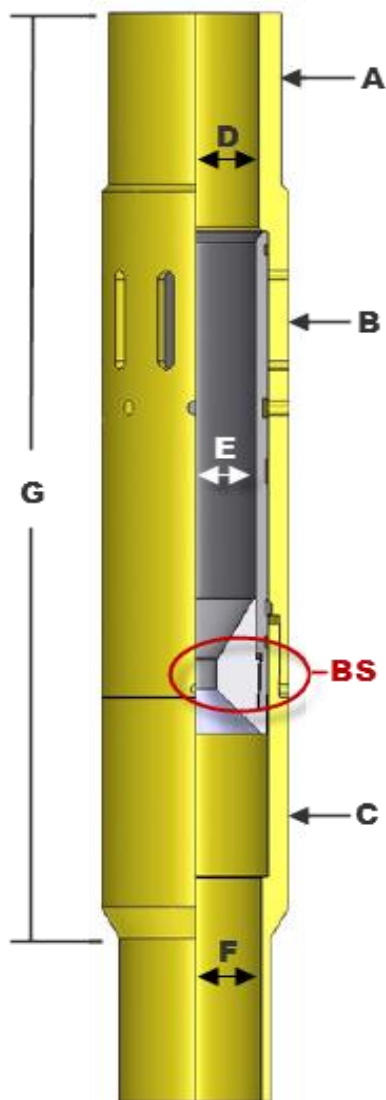
Casper, Wyoming

CUSTOMER: **BILL BARRETT CORP.**LEASE/WELL: **State of CO N 1S-66-36-1609CDH**DATE: **March 12, 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)	2.41	2.40	2.41	2.41	2.41

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 #	5501852811
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Pat / Jeremiah / Steven 3-10-14

TESTED & INSPECTED BY / DATE:

Trottier 3-12-14

APPROVED BY / DATE:



Baker Oil Tools

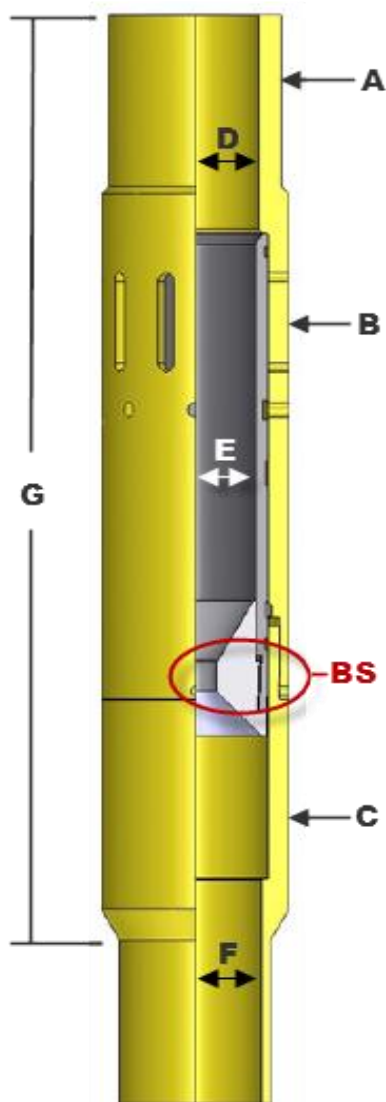
Casper, Wyoming

CUSTOMER: **BILL BARRETT CORP.**LEASE/WELL: **State of CO N 1S-66-36-1609CDH**DATE: **March 12, 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)	2.41	2.41			

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 #**5501852811**

Pat / Jeremiah / Steven 3-10-14

TESTED & INSPECTED BY / DATE:

Trottier 3-12-14

APPROVED BY / DATE:



Baker Oil Tools

CASPER, WY

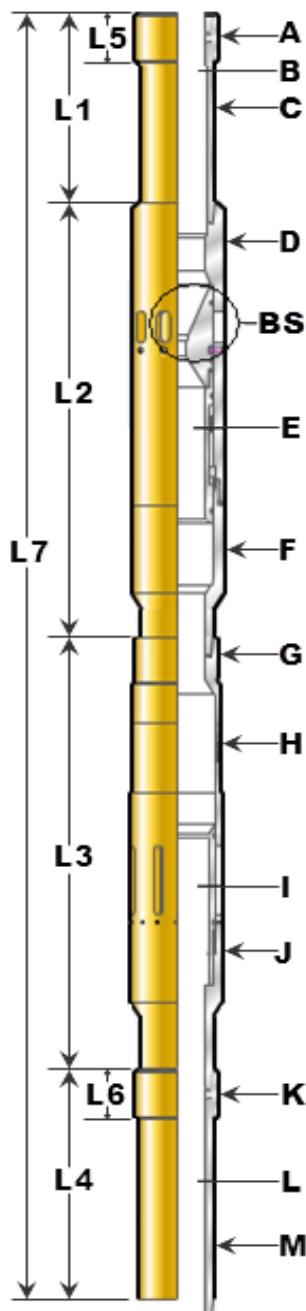
CUSTOMER: BILL BARRETT CORP.LEASE/WELL: State of CO N 1S-66-36-1609CDHDATE: March 12, 2014

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	6.07
L2	2.41
L3	2.71
L4	2.07
L5	0.59
L6	0.59
L7	13.26
OD/ID (in)	
Ball Size	2.000
BS	1.948
A	5.000
B	3.968
C	4.500
★ D ★	5.625
E	3.875
F	5.625
G	5.000
H	5.625
I	3.875
★ J ★	5.625
K	5.000
L	4.000
M	4.500

TEST SHIFTS	
Shift # 1	
Screw Size	1/4"-20
Mat #	HWWGE180JB
Batch #	180034-00012014
# Screws	2
PSI/screw	805
Nominal PSI	1610
Actual PSI	1900
Shift # 2	
Screw Size	1/4"-20
Mat #	HWWGE180JB
Batch #	180034-00012014
# Screws	2
PSI/screw	805
Nominal PSI	1610
Actual PSI	1900
Shift # 3	
Screw Size	1/4"-20
Mat #	HWWGE180JB
Batch #	180034-00012014
# Screws	2
PSI/screw	805
Nominal PSI	1610
Actual PSI	1800
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

David / Jeremiah 3-11-14

INSPECTED BY:

Trottier 3-12-14

APPROVED BY:



Baker Oil Tools

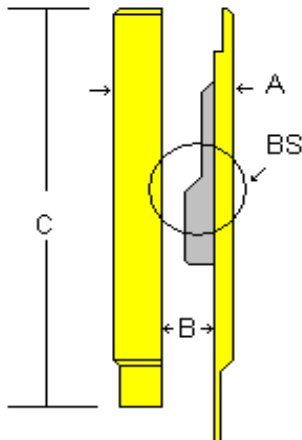
Casper Wyoming

CUSTOMER: **BILL BARRETT CORP.**LEASE/WELL: **State of CO N 1S-66-36-1609CDH**DATE: **March 12, 2014**

307-233-1277

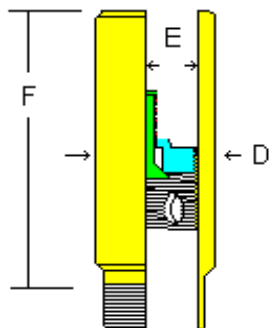
WELLBORE INFORMATION

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

SOLID BALL SEAT & FLOAT COLLAR & SHOE

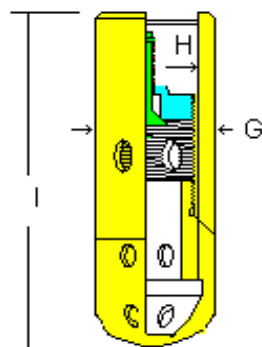
Solid Ball Seat	
BS ID (in)	1.000
Ball Size (in)	1.250
A (in)	5.062
B (in)	4.000
C (ft)	1.32

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



Single Valve Float Collar	
D (in)	5.000
E (in)	4.062
F (ft)	1.06

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)	5.031
H (in)	4.156
I (ft)	2.52

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

Zack 3-12-14

INSPECTED BY / DATE:

Trottier 3-12-14

APPROVED BY:

[illegible]

[illegible]