



Baker Oil Tools

Casper, Wyoming

CUSTOMER: BILL BARRETT CORP.

LEASE/WELL: CVR 5-63-32-1609 CH

DATE: July 9, 2013



307-265-4685

FRAC POINT - WAREHOUSE ASSEMBLY DRAWING BOOK

Casing Size: 7"

Casing Grade: P-110

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

Tie-Back Casing Size:

Tie-Back Casing Weight:

Tie-Back Casing Thread:

Tie-Back Casing Drift:

Tie-Back Casing Grade:

Drift OD Used 3.875"

Tested (Air or Water) Air

Test Pressure (PSI) 130

RePACKERS

Swell - Oil/Water OIL

Mat. # H304070012

Thread Size: 4 1/2"

Thread Type: LTC

Thread Wt. 11.6#

Grade: P-110

FRAC SLEEVES

Mat. # CHECK STO

Thread Size: 4 1/2"

Thread Type: LTC

Thread Wt. 11.6#

Grade: P110

PSI Per Screw 381

Number of Screws 6

"P" SLEEVE

Mat. # H809-88-0001

Thread Size: 4 1/2"

Thread Type: LTC

Thread Wt. 11.6#

Grade: P-110

PSI Per Screw 805

Number of Screws 6

FLOAT EQUIPMENT

Thread Size: 4 1/2"

Thread Type: LTC

Thread Wt. 11.6#

Grade: P110



FracPoint Space Out Diagram

BILL BARRETT CORPORATION

WELL NUMBER:



Baker Oil Tools

Casing Information		
7" 26# P-110		
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

Displacements	BBLS	GALS
Liner Top	241.19	10,130
3.500" SLV	258.46	10,855
3.375" SLV	262.04	11,006
3.250" SLV	265.63	11,156
3.125" SLV	269.13	11,304
3.000" SLV	272.67	11,452
2.875" SLV	275.58	11,575
2.750" SLV	279.16	11,725
2.625" SLV	282.75	11,875
2.500" SLV	286.32	12,025

Displacements	BBLS	GALS
2.375" SLV	289.88	12,175
2.250" SLV	293.47	12,326
2.125" SLV	296.76	12,464
2.000" SLV	299.93	12,597
1.875" SLV	303.49	12,747
1.750" SLV	307.08	12,897
1.625" SLV	310.65	13,047
1.500" SLV	314.24	13,198
"P" SLEEVE	317.82	13,348
BALL SEAT	319.18	13,406
Float Shoe	319.88	13,435

Length of Zone - FT			
Zone 1	230.65	Zone 10	230.54
Zone 2	230.29	Zone 11	230.20
Zone 3	230.52	Zone 12	230.79
Zone 4	230.87	Zone 13	227.83
Zone 5	228.38	Zone 14	226.71
Zone 6	228.44	Zone 15	228.61
Zone 7	231.27	Zone 16	230.87
Zone 8	229.56	Zone 17	188.14
Zone 9	186.68	Zone 18	99.20

S-3 LINER TOP	TVD
6,304.00	6,490.00
Casing Shoe	KOP
7,292.00	6,300.00
0	

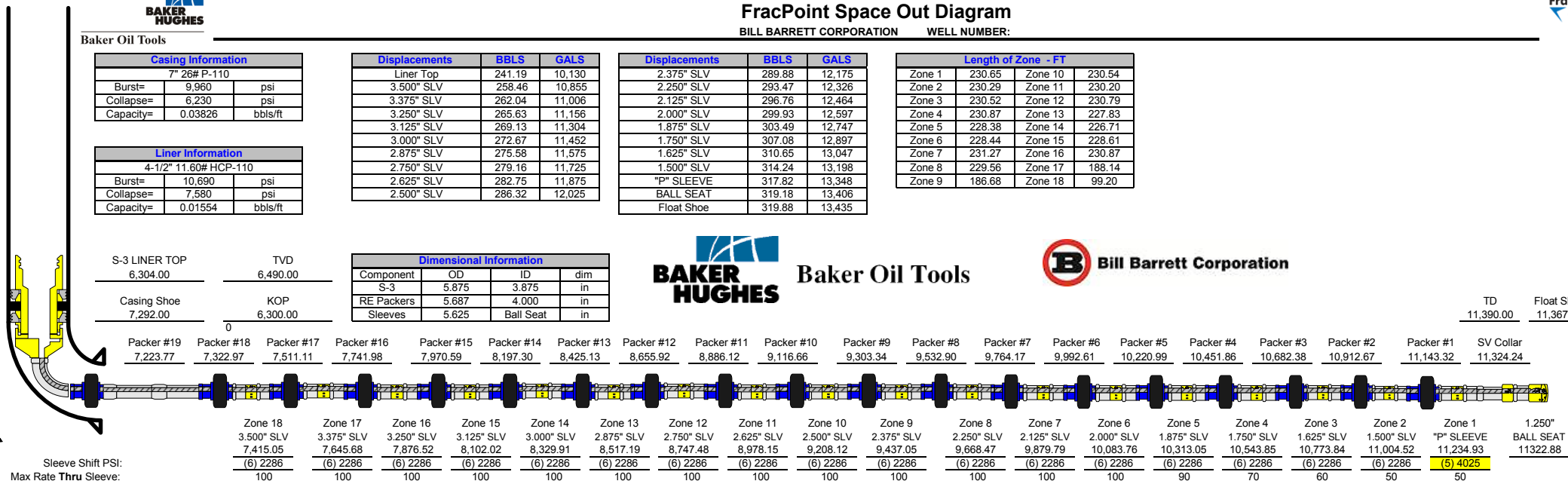
Dimensional Information			
Component	OD	ID	dim
S-3	5.875	3.875	in
RE Packers	5.687	4.000	in
Sleeves	5.625	Ball Seat	in



Baker Oil Tools



Bill Barrett Corporation



7.5.1-1F4 Frac-Point Space Out Diagram



JOB LOG

Total Operation Hours

48

Page 1 of 1

Date: July 14, 2013

Operating Company: BBC Represented by: CURTIS

Well Name & Number: CVR 5-63-32-1609 CH Lease: CVR Field: WATTENBERG State: CO

SST# 5647092 BOT Rep: TR PLUMMER Region/District ROCKIES / CASPER

DETAIL THE JOB - THIS FORM USED TO REPORT WHAT ACTUALLY TOOK PLACE - FILL OUT COMPLETELY

Date & Time	Operations & Remarks
7/14/13 2:00PM	ARRIVED ON LOCATION, MET W/ CURTIS. GATHERED WELL INFO & STARTED TALLY.
4:15PM	OFF-LOADED TOOLS FROM HOT-SHOT. RIG POOH CURRENTLY.
7:30PM	R/U CASING CREW
8:30PM	SAFETY MEETING
9:00PM	START M/U OF SHOE TRACK. START RIH W/ 4.5" 11.6# P-110 LTC. FILL PIPE AS REQUIRED.
7/15/13 12:55AM	FILLED PIPE PRIOR TO P/U OF HANGER.
1:30AM	P/U S-3 LINER HANGER, & BUMPER - SUB, M/U STAND OF HWDP W/ ROT. RUBBER, CIRC.
	R/D CASING CREW.
2:15AM	CIRC. @ SHOE, 40 SPM / 430 PSI. CONT. RIH TO TD.
4:45AM	CIRC. @ SET DEPTH, 11,370' MD, 32 SPM / 735 PSI.
5:40AM	START PUMPING KCL(15 BBLS), FOLLOWED W/ DIESEL(87BBLS), KCL(10 BBLS)
6:22AM	DROPPED (1) 1.250" SETTING BALL & PUMPED TO SEAT W/ 130 BBLS KCL.
6:55AM	BALL ON SEAT, PRESSURED TO 2500 PSI, HELD 5 MIN., BLEED OFF. PUSH /PULL 60K (x3)
7:19AM	TESTED ANN. TO 2400 PSI / 15 MIN.
7:40AM	OPENED RAMS, ROTATED STRING TO RIGHT W/ 20 WRAPS, P/U STRING & CIRC W/ KCL.
2:00PM	L/D RUNNING TOOLS.

CUSTOMER SATISFACTION EVALUATION*This Section is completed by the Customer Representative upon completion of each job. Your comments are very important to us*

Did BOT meet Job/Performance expectations? (Yes/No) _____ Would you use BOT again? (Yes/No) _____
Did BOT equipment arrive on time? (Yes/No) _____ Did BOT personnel arrive on time? (Yes/No) _____

HOW CAN BAKER OIL TOOLS IMPROVE?

Customer Representative Signature: _____ Date: _____
Baker Representative Signature: _____ Date: _____



Baker Oil Tools

TALLY SHEET

CUSTOMER	BBC
WELL NAME	CVR 5-63-32-1609 CH
DATE	7/14/2013
SERVICE REP	TR PLUMMER

			OPENHOLE TD		11,390.00	COMMENTS:
Item #	Joint #	DESCRIPTION:	LENGTH:	ACC. LENGTH	DEPTH	
					11,370.00	
1	DVS	DV FLOAT SHOE	2.52	2.52	11,367.48	
2	1	JT 4.5" 11.6# P-110 LT&C	42.17	44.69	11,325.31	
3	SVF	SV FLOAT COLLAR	1.07	45.76	11,324.24	
4	SBS	SOLID BALL SEAT (1.250")	1.36	47.12	11,322.88	
5	2	JT 4.5" 11.6# P-110 LT&C	42.42	89.54	11,280.46	
6	3	JT 4.5" 11.6# P-110 LT&C	42.81	132.35	11,237.65	1
7	S1	P-SLEEVE(4025 PSI)	2.72	135.07	11,234.93	
8	4	JT 4.5" 11.6# P-110 LT&C	42.49	177.56	11,192.44	1
9	5	JT 4.5" 11.6# P-110 LT&C	42.87	220.43	11,149.57	2
10	X	PUP 4.5" 11.6# P-110 LT&C	2.41	222.84	11,147.16	
11	P1	OIL SWELL PACKER #1	7.69	230.53	11,139.47	CENTER OF PACKER: 11,143.32
12	X	PUP 4.5" 11.6# P-110 LT&C	4.01	234.54	11,135.46	
13	6	JT 4.5" 11.6# P-110 LT&C	42.85	277.39	11,092.61	1
14	7	JT 4.5" 11.6# P-110 LT&C	42.85	320.24	11,049.76	2
15	8	JT 4.5" 11.6# P-110 LT&C	42.83	363.07	11,006.93	3
16	S2	1.500" FRAC-SLEEVE	2.41	365.48	11,004.52	
17	9	JT 4.5" 11.6# P-110 LT&C	42.85	408.33	10,961.67	1
18	10	JT 4.5" 11.6# P-110 LT&C	42.75	451.08	10,918.92	2
19	X	PUP 4.5" 11.6# P-110 LT&C	2.41	453.49	10,916.51	
20	P2	OIL SWELL PACKER #2	7.69	461.18	10,908.82	CENTER OF PACKER: 10,912.67
21	X	PUP 4.5" 11.6# P-110 LT&C	4.01	465.19	10,904.81	
22	11	JT 4.5" 11.6# P-110 LT&C	42.93	508.12	10,861.88	1
23	12	JT 4.5" 11.6# P-110 LT&C	42.85	550.97	10,819.03	2
24	13	JT 4.5" 11.6# P-110 LT&C	42.78	593.75	10,776.25	3
25	S3	1.625" FRAC-SLEEVE	2.41	596.16	10,773.84	
26	14	JT 4.5" 11.6# P-110 LT&C	42.45	638.61	10,731.39	1
27	15	JT 4.5" 11.6# P-110 LT&C	42.76	681.37	10,688.63	2
28	X	PUP 4.5" 11.6# P-110 LT&C	2.42	683.79	10,686.21	
29	P3	OIL SWELL PACKER #3	7.67	691.46	10,678.54	CENTER OF PACKER: 10,682.38
30	X	PUP 4.5" 11.6# P-110 LT&C	4.01	695.47	10,674.53	
31	16	JT 4.5" 11.6# P-110 LT&C	42.81	738.28	10,631.72	1
32	17	JT 4.5" 11.6# P-110 LT&C	42.87	781.15	10,588.85	2
33	18	JT 4.5" 11.6# P-110 LT&C	42.59	823.74	10,546.26	3
34	S4	1.750" FRAC-SLEEVE	2.41	826.15	10,543.85	
35	19	JT 4.5" 11.6# P-110 LT&C	42.70	868.85	10,501.15	1
36	20	JT 4.5" 11.6# P-110 LT&C	43.04	911.89	10,458.11	2
37	X	PUP 4.5" 11.6# P-110 LT&C	2.41	914.30	10,455.70	
38	P4	OIL SWELL PACKER #4	7.68	921.98	10,448.02	CENTER OF PACKER: 10,451.86
39	X	PUP 4.5" 11.6# P-110 LT&C	4.01	925.99	10,444.01	
40	21	JT 4.5" 11.6# P-110 LT&C	43.10	969.09	10,400.91	1
41	22	JT 4.5" 11.6# P-110 LT&C	42.60	1,011.69	10,358.31	2
42	23	JT 4.5" 11.6# P-110 LT&C	42.85	1,054.54	10,315.46	3
43	S5	1.875" FRAC-SLEEVE	2.41	1,056.95	10,313.05	
44	24	JT 4.5" 11.6# P-110 LT&C	42.89	1,099.84	10,270.16	1
45	25	JT 4.5" 11.6# P-110 LT&C	42.91	1,142.75	10,227.25	2
46	X	PUP 4.5" 11.6# P-110 LT&C	2.42	1,145.17	10,224.83	
47	P5	OIL SWELL PACKER #5	7.68	1,152.85	10,217.15	CENTER OF PACKER: 10,220.99
48	X	PUP 4.5" 11.6# P-110 LT&C	4.01	1,156.86	10,213.14	
49	26	JT 4.5" 11.6# P-110 LT&C	42.93	1,199.79	10,170.21	1
50	27	JT 4.5" 11.6# P-110 LT&C	41.09	1,240.88	10,129.12	2
51	28	JT 4.5" 11.6# P-110 LT&C	42.95	1,283.83	10,086.17	3
52	S6	2.000" FRAC-SLEEVE	2.41	1,286.24	10,083.76	
53	29	JT 4.5" 11.6# P-110 LT&C	42.40	1,328.64	10,041.36	1
54	30	JT 4.5" 11.6# P-110 LT&C	42.49	1,371.13	9,998.87	2



Baker Oil Tools

TALLY SHEET

CUSTOMER	BBC
WELL NAME	CVR 5-63-32-1609 CH
DATE	7/14/2013
SERVICE REP	TR PLUMMER

Item #	Joint #	DESCRIPTION:	LENGTH:	ACC. LENGTH	OPENHOLE TD	COMMENTS:
					11,390.00	
					11,370.00	
55	X	PUP 4.5" 11.6# P-110 LT&C	2.42	1,373.55	9,996.45	
56	P6	OIL SWELL PACKER #6	7.67	1,381.22	9,988.78	CENTER OF PACKER: 9,992.61
57	X	PUP 4.5" 11.6# P-110 LT&C	4.00	1,385.22	9,984.78	
58	31	JT 4.5" 11.6# P-110 LT&C	42.55	1,427.77	9,942.23	1
59	32	JT 4.5" 11.6# P-110 LT&C	42.03	1,469.80	9,900.20	2
60	S7	2.125" FRAC-SLEEVE	2.41	1,472.21	9,897.79	
61	33	JT 4.5" 11.6# P-110 LT&C	42.74	1,514.95	9,855.05	1
62	34	JT 4.5" 11.6# P-110 LT&C	42.38	1,557.33	9,812.67	2
63	35	JT 4.5" 11.6# P-110 LT&C	42.23	1,599.56	9,770.44	3
64	X	PUP 4.5" 11.6# P-110 LT&C	2.43	1,601.99	9,768.01	
65	P7	OIL SWELL PACKER #7	7.68	1,609.67	9,760.33	CENTER OF PACKER: 9,764.17
66	X	PUP 4.5" 11.6# P-110 LT&C	4.00	1,613.67	9,756.33	
67	36	JT 4.5" 11.6# P-110 LT&C	42.74	1,656.41	9,713.59	1
68	37	JT 4.5" 11.6# P-110 LT&C	42.71	1,699.12	9,670.88	2
69	S8	2.250" FRAC-SLEEVE	2.41	1,701.53	9,668.47	
70	38	JT 4.5" 11.6# P-110 LT&C	43.09	1,744.62	9,625.38	1
71	39	JT 4.5" 11.6# P-110 LT&C	42.93	1,787.55	9,582.45	2
72	40	JT 4.5" 11.6# P-110 LT&C	43.28	1,830.83	9,539.17	3
73	X	PUP 4.5" 11.6# P-110 LT&C	2.43	1,833.26	9,536.74	
74	P8	OIL SWELL PACKER #8	7.68	1,840.94	9,529.06	CENTER OF PACKER: 9,532.90
75	X	PUP 4.5" 11.6# P-110 LT&C	3.98	1,844.92	9,525.08	
76	41	JT 4.5" 11.6# P-110 LT&C	42.74	1,887.66	9,482.34	1
77	42	JT 4.5" 11.6# P-110 LT&C	42.88	1,930.54	9,439.46	2
78	S9	2.375" FRAC-SLEEVE	2.41	1,932.95	9,437.05	
79	43	JT 4.5" 11.6# P-110 LT&C	42.58	1,975.53	9,394.47	1
80	44	JT 4.5" 11.6# P-110 LT&C	42.05	2,017.58	9,352.42	2
81	45	JT 4.5" 11.6# P-110 LT&C	42.81	2,060.39	9,309.61	3
82	X	PUP 4.5" 11.6# P-110 LT&C	2.43	2,062.82	9,307.18	
83	P9	OIL SWELL PACKER #9	7.68	2,070.50	9,299.50	CENTER OF PACKER: 9,303.34
84	X	PUP 4.5" 11.6# P-110 LT&C	3.99	2,074.49	9,295.51	
85	46	JT 4.5" 11.6# P-110 LT&C	42.15	2,116.64	9,253.36	1
86	47	JT 4.5" 11.6# P-110 LT&C	42.83	2,159.47	9,210.53	2
87	S10	2.500" FRAC-SLEEVE	2.41	2,161.88	9,208.12	
88	48	JT 4.5" 11.6# P-110 LT&C	42.80	2,204.68	9,165.32	1
89	49	JT 4.5" 11.6# P-110 LT&C	42.40	2,247.08	9,122.92	2
90	X	PUP 4.5" 11.6# P-110 LT&C	2.42	2,249.50	9,120.50	
91	P10	OIL SWELL PACKER #10	7.68	2,257.18	9,112.82	CENTER OF PACKER: 9,116.66
92	X	PUP 4.5" 11.6# P-110 LT&C	4.00	2,261.18	9,108.82	
93	50	JT 4.5" 11.6# P-110 LT&C	42.95	2,304.13	9,065.87	1
94	51	JT 4.5" 11.6# P-110 LT&C	42.80	2,346.93	9,023.07	2
95	52	JT 4.5" 11.6# P-110 LT&C	42.51	2,389.44	8,980.56	3
96	S11	2.625" FRAC-SLEEVE	2.41	2,391.85	8,978.15	
97	53	JT 4.5" 11.6# P-110 LT&C	43.02	2,434.87	8,935.13	1
98	54	JT 4.5" 11.6# P-110 LT&C	42.76	2,477.63	8,892.37	2
99	X	PUP 4.5" 11.6# P-110 LT&C	2.42	2,480.05	8,889.95	
100	P11	OIL SWELL PACKER #11	7.67	2,487.72	8,882.28	CENTER OF PACKER: 8,886.12
101	X	PUP 4.5" 11.6# P-110 LT&C	4.00	2,491.72	8,878.28	
102	55	JT 4.5" 11.6# P-110 LT&C	42.88	2,534.60	8,835.40	1
103	56	JT 4.5" 11.6# P-110 LT&C	42.98	2,577.58	8,792.42	2
104	57	JT 4.5" 11.6# P-110 LT&C	42.53	2,620.11	8,749.89	3
105	S12	2.750" FRAC-SLEEVE	2.41	2,622.52	8,747.48	
106	58	JT 4.5" 11.6# P-110 LT&C	42.36	2,664.88	8,705.12	1
107	59	JT 4.5" 11.6# P-110 LT&C	42.92	2,707.80	8,662.20	2
108	X	PUP 4.5" 11.6# P-110 LT&C	2.44	2,710.24	8,659.76	



Baker Oil Tools

TALLY SHEET

CUSTOMER	BBC
WELL NAME	CVR 5-63-32-1609 CH
DATE	7/14/2013
SERVICE REP	TR PLUMMER

Item #	Joint #	DESCRIPTION:	LENGTH:	ACC. LENGTH	OPENHOLE TD	COMMENTS:
					11,390.00	
					11,370.00	
109	P12	OIL SWELL PACKER #12	7.68	2,717.92	8,652.08	CENTER OF PACKER: 8,655.92
110	X	PUP 4.5" 11.6# P-110 LT&C	3.99	2,721.91	8,648.09	
111	60	JT 4.5" 11.6# P-110 LT&C	43.06	2,764.97	8,605.03	1
112	61	JT 4.5" 11.6# P-110 LT&C	42.69	2,807.66	8,562.34	2
113	62	JT 4.5" 11.6# P-110 LT&C	42.74	2,850.40	8,519.60	3
114	S13	2.875" FRAC-SLEEVE	2.41	2,852.81	8,517.19	
115	63	JT 4.5" 11.6# P-110 LT&C	42.80	2,895.61	8,474.39	1
116	64	JT 4.5" 11.6# P-110 LT&C	43.00	2,938.61	8,431.39	2
117	X	PUP 4.5" 11.6# P-110 LT&C	2.42	2,941.03	8,428.97	
118	P13	OIL SWELL PACKER #13	7.68	2,948.71	8,421.29	CENTER OF PACKER: 8,425.13
119	X	PUP 4.5" 11.6# P-110 LT&C	4.01	2,952.72	8,417.28	
120	65	JT 4.5" 11.6# P-110 LT&C	42.30	2,995.02	8,374.98	1
121	66	JT 4.5" 11.6# P-110 LT&C	42.66	3,037.68	8,332.32	2
122	S14	3.000" FRAC-SLEEVE	2.41	3,040.09	8,329.91	
123	67	JT 4.5" 11.6# P-110 LT&C	42.63	3,082.72	8,287.28	1
124	68	JT 4.5" 11.6# P-110 LT&C	41.32	3,124.04	8,245.96	2
125	69	JT 4.5" 11.6# P-110 LT&C	42.40	3,166.44	8,203.56	3
126	X	PUP 4.5" 11.6# P-110 LT&C	2.42	3,168.86	8,201.14	
127	P14	OIL SWELL PACKER #14	7.68	3,176.54	8,193.46	CENTER OF PACKER: 8,197.30
128	X	PUP 4.5" 11.6# P-110 LT&C	4.00	3,180.54	8,189.46	
129	70	JT 4.5" 11.6# P-110 LT&C	42.31	3,222.85	8,147.15	1
130	71	JT 4.5" 11.6# P-110 LT&C	42.72	3,265.57	8,104.43	2
131	S15	3.125" FRAC-SLEEVE	2.41	3,267.98	8,102.02	
132	72	JT 4.5" 11.6# P-110 LT&C	42.95	3,310.93	8,059.07	1
133	73	JT 4.5" 11.6# P-110 LT&C	42.86	3,353.79	8,016.21	2
134	74	JT 4.5" 11.6# P-110 LT&C	39.36	3,393.15	7,976.85	3
135	X	PUP 4.5" 11.6# P-110 LT&C	2.42	3,395.57	7,974.43	
136	P15	OIL SWELL PACKER #15	7.68	3,403.25	7,966.75	CENTER OF PACKER: 7,970.59
137	X	PUP 4.5" 11.6# P-110 LT&C	4.00	3,407.25	7,962.75	
138	75	JT 4.5" 11.6# P-110 LT&C	42.93	3,450.18	7,919.82	1
139	76	JT 4.5" 11.6# P-110 LT&C	40.89	3,491.07	7,878.93	2
140	S16	3.250" FRAC-SLEEVE	2.41	3,493.48	7,876.52	
141	77	JT 4.5" 11.6# P-110 LT&C	42.49	3,535.97	7,834.03	1
142	78	JT 4.5" 11.6# P-110 LT&C	42.86	3,578.83	7,791.17	2
143	79	JT 4.5" 11.6# P-110 LT&C	42.94	3,621.77	7,748.23	3
144	X	PUP 4.5" 11.6# P-110 LT&C	2.41	3,624.18	7,745.82	
145	P16	OIL SWELL PACKER #16	7.68	3,631.86	7,738.14	CENTER OF PACKER: 7,741.98
146	X	PUP 4.5" 11.6# P-110 LT&C	4.01	3,635.87	7,734.13	
147	80	JT 4.5" 11.6# P-110 LT&C	43.13	3,679.00	7,691.00	1
148	81	JT 4.5" 11.6# P-110 LT&C	42.91	3,721.91	7,648.09	2
149	S17	3.375" FRAC-SLEEVE	2.41	3,724.32	7,645.68	
150	82	JT 4.5" 11.6# P-110 LT&C	42.59	3,766.91	7,603.09	1
151	83	JT 4.5" 11.6# P-110 LT&C	42.87	3,809.78	7,560.22	2
152	84	JT 4.5" 11.6# P-110 LT&C	42.89	3,852.67	7,517.33	3
153	X	PUP 4.5" 11.6# P-110 LT&C	2.39	3,855.06	7,514.94	
154	P17	OIL SWELL PACKER #17	7.67	3,862.73	7,507.27	CENTER OF PACKER: 7,511.11
155	X	PUP 4.5" 11.6# P-110 LT&C	4.04	3,866.77	7,503.23	
156	85	JT 4.5" 11.6# P-110 LT&C	42.89	3,909.66	7,460.34	1
157	86	JT 4.5" 11.6# P-110 LT&C	42.88	3,952.54	7,417.46	2
158	S18	3.500" FRAC-SLEEVE	2.41	3,954.95	7,415.05	
159	87	JT 4.5" 11.6# P-110 LT&C	42.94	3,997.89	7,372.11	1
160	88	JT 4.5" 11.6# P-110 LT&C	42.88	4,040.77	7,329.23	2
161	X	PUP 4.5" 11.6# P-110 LT&C	2.43	4,043.20	7,326.80	
162	P18	OIL SWELL PACKER #18	7.67	4,050.87	7,319.13	CENTER OF PACKER: 7,322.97



Baker Oil Tools

TALLY SHEET

CUSTOMER	BBC
WELL NAME	CVR 5-63-32-1609 CH
DATE	7/14/2013
SERVICE REP	TR PLUMMER

Item #	Joint #	DESCRIPTION:	LENGTH:	ACC. LENGTH	OPENHOLE TD	COMMENTS:
					11,390.00	
					11,370.00	
163	X	PUP 4.5" 11.6# P-110 LT&C	4.01	4,054.88	7,315.12	
164	89	JT 4.5" 11.6# P-110 LT&C	42.91	4,097.79	7,272.21	SHOE- 7,292'
165	90	JT 4.5" 11.6# P-110 LT&C	42.19	4,139.98	7,230.02	2
166	X	PUP 4.5" 11.6# P-110 LT&C	2.41	4,142.39	7,227.61	
167	P19	OIL SWELL PACKER #19	7.68	4,150.07	7,219.93	CENTER OF PACKER: 7,223.77
168	X	PUP 4.5" 11.6# P-110 LT&C	4.01	4,154.08	7,215.92	
169	91	JT 4.5" 11.6# P-110 LT&C	43.25	4,197.33	7,172.67	
170	92	JT 4.5" 11.6# P-110 LT&C	42.73	4,240.06	7,129.94	
171	93	JT 4.5" 11.6# P-110 LT&C	42.96	4,283.02	7,086.98	
172	94	JT 4.5" 11.6# P-110 LT&C	42.10	4,325.12	7,044.88	
173	95	JT 4.5" 11.6# P-110 LT&C	41.35	4,366.47	7,003.53	
174	96	JT 4.5" 11.6# P-110 LT&C	42.76	4,409.23	6,960.77	
175	97	JT 4.5" 11.6# P-110 LT&C	42.95	4,452.18	6,917.82	
176	98	JT 4.5" 11.6# P-110 LT&C	42.85	4,495.03	6,874.97	
177	99	JT 4.5" 11.6# P-110 LT&C	42.71	4,537.74	6,832.26	
178	100	JT 4.5" 11.6# P-110 LT&C	42.85	4,580.59	6,789.41	
179	101	JT 4.5" 11.6# P-110 LT&C	43.05	4,623.64	6,746.36	
180	102	JT 4.5" 11.6# P-110 LT&C	42.91	4,666.55	6,703.45	
181	103	JT 4.5" 11.6# P-110 LT&C	42.79	4,709.34	6,660.66	
182	104	JT 4.5" 11.6# P-110 LT&C	42.76	4,752.10	6,617.90	
183	105	JT 4.5" 11.6# P-110 LT&C	42.81	4,794.91	6,575.09	
184	106	JT 4.5" 11.6# P-110 LT&C	41.96	4,836.87	6,533.13	
185	107	JT 4.5" 11.6# P-110 LT&C	42.74	4,879.61	6,490.39	
186	108	JT 4.5" 11.6# P-110 LT&C	42.23	4,921.84	6,448.16	
187	109	JT 4.5" 11.6# P-110 LT&C	42.65	4,964.49	6,405.51	
188	110	JT 4.5" 11.6# P-110 LT&C	42.84	5,007.33	6,362.67	
189	111	JT 4.5" 11.6# P-110 LT&C	42.56	5,049.89	6,320.11	
190	PUP	PUP 4.5" 11.6# P-110 BT&C	5.46	5,055.35	6,314.65	
191	PBR	PBR X-OVER	2.00	5,057.35	6,312.65	
192	S-3	S-3 LINER TOP PACKER	4.63	5,061.98	6,308.02	
193	RC	RC-SLEEVE	4.00	5,065.98	6,304.02	LT- 6,304'
194	S/U	DP STICK UP - 3 1/2" IF	10.64	5,076.62	6,293.38	
195	B/S	BUMPER SUB	7.86	5,084.48	6,285.52	
196	X/O	3 1/2" X 4" XT-39	5.70	5,090.18	6,279.82	
197	X	4" HWDP 27.9#	30.45	5,120.63	6,249.37	
198	XX	4" HWDP 27.9#	30.8	5,151.43	6,218.57	
199	1	4" HWDP 27.9#	30.51	5,181.94	6,188.06	
200	X	4" HWDP 27.9#	30.53	5,212.47	6,157.53	
201	XX	4" HWDP 27.9#	30.73	5,243.20	6,126.80	
202	2	4" HWDP 27.9#	30.3	5,273.50	6,096.50	
203	X	4" HWDP 27.9#	30.62	5,304.12	6,065.88	
204	XX	4" HWDP 27.9#	30.72	5,334.84	6,035.16	
205	3	4" HWDP 27.9#	30.64	5,365.48	6,004.52	
206	X	4" HWDP 27.9#	30.8	5,396.28	5,973.72	
207	XX	4" HWDP 27.9#	30.75	5,427.03	5,942.97	
208	4	4" HWDP 27.9#	30.74	5,457.77	5,912.23	
209	X	4" HWDP 27.9#	30.66	5,488.43	5,881.57	
210	XX	4" HWDP 27.9#	30.7	5,519.13	5,850.87	
211	5	4" HWDP 27.9#	30.7	5,549.83	5,820.17	
212	X	4" HWDP 27.9#	30.73	5,580.56	5,789.44	
213	XX	4" HWDP 27.9#	30.72	5,611.28	5,758.72	
214	6	4" HWDP 27.9#	30.82	5,642.10	5,727.90	
215	X	4" HWDP 27.9#	30.55	5,672.65	5,697.35	
216	XX	4" HWDP 27.9#	30.05	5,702.70	5,667.30	



Baker Oil Tools

TALLY SHEET

CUSTOMER	BBC
WELL NAME	CVR 5-63-32-1609 CH
DATE	7/14/2013
SERVICE REP	TR PLUMMER

Item #	Joint #	DESCRIPTION:	LENGTH:	ACC. LENGTH	OPENHOLE TD	COMMENTS:
					11,390.00 11,370.00	
217	7	4" HWDP 27.9#	30.53	5,733.23	5,636.77	
218	X	4" HWDP 27.9#	30.32	5,763.55	5,606.45	
219	XX	4" HWDP 27.9#	30.54	5,794.09	5,575.91	
220	8	4" HWDP 27.9#	30.82	5,824.91	5,545.09	
221	X	4" HWDP 27.9#	30.71	5,855.62	5,514.38	
222	XX	4" HWDP 27.9#	30.3	5,885.92	5,484.08	
223	9	4" HWDP 27.9#	30.77	5,916.69	5,453.31	
224	X	4" HWDP 27.9#	31.26	5,947.95	5,422.05	
225	XX	4" HWDP 27.9#	30.83	5,978.78	5,391.22	
226	10	4" HWDP 27.9#	30.73	6,009.51	5,360.49	
227	X	4" HWDP 27.9#	30.48	6,039.99	5,330.01	
228	XX	4" HWDP 27.9#	30.83	6,070.82	5,299.18	
229	11	4" HWDP 27.9#	30.81	6,101.63	5,268.37	
230	X	4" HWDP 27.9#	30.6	6,132.23	5,237.77	
231	XX	4" HWDP 27.9#	30.35	6,162.58	5,207.42	
232	12	4" HWDP 27.9#	30.83	6,193.41	5,176.59	
233	X	4" HWDP 27.9#	30.78	6,224.19	5,145.81	
234	XX	4" HWDP 27.9#	30.66	6,254.85	5,115.15	
235	13	4" HWDP 27.9#	30.83	6,285.68	5,084.32	
236	X	4" HWDP 27.9#	30.8	6,316.48	5,053.52	
237	XX	4" HWDP 27.9#	30.81	6,347.29	5,022.71	
238	14	4" HWDP 27.9#	30.65	6,377.94	4,992.06	
239	X	4" HWDP 27.9#	30.81	6,408.75	4,961.25	
240	XX	4" HWDP 27.9#	30.79	6,439.54	4,930.46	
241	15	4" HWDP 27.9#	30.58	6,470.12	4,899.88	
242	X	15.6# DP	31.49	6,501.61	4,868.39	
243	XX	15.6# DP	31.79	6,533.40	4,836.60	
244	1	15.6# DP	31.58	6,564.98	4,805.02	
245	X	15.6# DP	32.19	6,597.17	4,772.83	
246	XX	15.6# DP	31.68	6,628.85	4,741.15	
247	2	15.6# DP	32.44	6,661.29	4,708.71	
248	X	15.6# DP	32.17	6,693.46	4,676.54	
249	XX	15.6# DP	31.69	6,725.15	4,644.85	
250	3	15.6# DP	31.51	6,756.66	4,613.34	
251	X	15.6# DP	31.84	6,788.50	4,581.50	
252	XX	15.6# DP	32.36	6,820.86	4,549.14	
253	4	15.6# DP	31.9	6,852.76	4,517.24	
254	X	15.6# DP	32.63	6,885.39	4,484.61	
255	XX	15.6# DP	31.56	6,916.95	4,453.05	
256	5	15.6# DP	31.71	6,948.66	4,421.34	
257	X	15.6# DP	32.01	6,980.67	4,389.33	
258	XX	15.6# DP	32.16	7,012.83	4,357.17	
259	6	15.6# DP	32.1	7,044.93	4,325.07	
260	X	15.6# DP	32.63	7,077.56	4,292.44	
261	XX	15.6# DP	31.91	7,109.47	4,260.53	
262	7	15.6# DP	31.9	7,141.37	4,228.63	
263	X	15.6# DP	32.1	7,173.47	4,196.53	
264	XX	15.6# DP	32.18	7,205.65	4,164.35	
265	8	15.6# DP	31.2	7,236.85	4,133.15	
266	X	15.6# DP	32.58	7,269.43	4,100.57	
267	XX	15.6# DP	31.65	7,301.08	4,068.92	
268	9	15.6# DP	32.21	7,333.29	4,036.71	
269	X	15.6# DP	31.74	7,365.03	4,004.97	
270	XX	15.6# DP	32.05	7,397.08	3,972.92	



Baker Oil Tools

TALLY SHEET

CUSTOMER

BBC

WELL NAME

CVR 5-63-32-1609 CH

DATE

7/14/2013

SERVICE REP

TR PLUMMER

OPENHOLE TD

11,390.00

Item #	Joint #	DESCRIPTION:	LENGTH:	ACC. LENGTH	DEPTH	COMMENTS:
					11,370.00	
271	10	15.6# DP	31.86	7,428.94	3,941.06	
272	X	15.6# DP	31.52	7,460.46	3,909.54	
273	XX	15.6# DP	31.86	7,492.32	3,877.68	
274	11	15.6# DP	32.33	7,524.65	3,845.35	
275	X	15.6# DP	31.41	7,556.06	3,813.94	
276	XX	15.6# DP	31.9	7,587.96	3,782.04	
277	12	15.6# DP	31.64	7,619.60	3,750.40	
278	X	15.6# DP	31.45	7,651.05	3,718.95	
279	XX	15.6# DP	31.6	7,682.65	3,687.35	
280	13	15.6# DP	31.49	7,714.14	3,655.86	
281	X	15.6# DP	32.37	7,746.51	3,623.49	
282	XX	15.6# DP	31.82	7,778.33	3,591.67	
283	14	15.6# DP	31.74	7,810.07	3,559.93	
284	X	15.6# DP	32.26	7,842.33	3,527.67	
285	XX	15.6# DP	31.94	7,874.27	3,495.73	
286	15	15.6# DP	31.91	7,906.18	3,463.82	
287	X	15.6# DP	31.57	7,937.75	3,432.25	
288	XX	15.6# DP	31.98	7,969.73	3,400.27	
289	16	15.6# DP	31.7	8,001.43	3,368.57	
290	X	15.6# DP	32.62	8,034.05	3,335.95	
291	XX	15.6# DP	32.65	8,066.70	3,303.30	
292	17	15.6# DP	31.77	8,098.47	3,271.53	
293	X	15.6# DP	31.93	8,130.40	3,239.60	
294	XX	15.6# DP	31.88	8,162.28	3,207.72	
295	18	15.6# DP	31.57	8,193.85	3,176.15	
296	X	15.6# DP	31.52	8,225.37	3,144.63	
297	XX	15.6# DP	31.87	8,257.24	3,112.76	
298	19	15.6# DP	31.48	8,288.72	3,081.28	
299	X	15.6# DP	31.95	8,320.67	3,049.33	
300	XX	15.6# DP	31.66	8,352.33	3,017.67	
301	20	15.6# DP	32.51	8,384.84	2,985.16	
302	X	15.6# DP	31.67	8,416.51	2,953.49	
303	XX	15.6# DP	31.96	8,448.47	2,921.53	
304	21	15.6# DP	31.58	8,480.05	2,889.95	
305	X	15.6# DP	31.85	8,511.90	2,858.10	
306	XX	15.6# DP	31.24	8,543.14	2,826.86	
307	22	15.6# DP	32.27	8,575.41	2,794.59	
308	X	15.6# DP	31.6	8,607.01	2,762.99	
309	XX	15.6# DP	31.7	8,638.71	2,731.29	
310	23	15.6# DP	31.51	8,670.22	2,699.78	
311	X	15.6# DP	31.76	8,701.98	2,668.02	
312	XX	15.6# DP	32.27	8,734.25	2,635.75	
313	24	15.6# DP	31.93	8,766.18	2,603.82	
314	X	15.6# DP	31.91	8,798.09	2,571.91	
315	XX	15.6# DP	32.29	8,830.38	2,539.62	
316	25	15.6# DP	31.59	8,861.97	2,508.03	
317	X	15.6# DP	32.28	8,894.25	2,475.75	
318	XX	15.6# DP	32.21	8,926.46	2,443.54	
319	26	15.6# DP	31.55	8,958.01	2,411.99	
320	X	15.6# DP	31.5	8,989.51	2,380.49	
321	XX	15.6# DP	32.36	9,021.87	2,348.13	
322	27	15.6# DP	32.08	9,053.95	2,316.05	
323	X	15.6# DP	32.46	9,086.41	2,283.59	
324	XX	15.6# DP	31.82	9,118.23	2,251.77	



Baker Oil Tools

TALLY SHEET

CUSTOMER

BBC

WELL NAME

CVR 5-63-32-1609 CH

DATE

7/14/2013

SERVICE REP

TR PLUMMER

OPENHOLE TD

11,390.00

Item #	Joint #	DESCRIPTION:	LENGTH:	ACC. LENGTH	DEPTH	COMMENTS:
					11,370.00	
325	28	15.6# DP	30.2	9,148.43	2,221.57	
326	X	15.6# DP	31.71	9,180.14	2,189.86	
327	XX	15.6# DP	32.23	9,212.37	2,157.63	
328	29	15.6# DP	31.54	9,243.91	2,126.09	
329	X	15.6# DP	31.62	9,275.53	2,094.47	
330	XX	15.6# DP	31.76	9,307.29	2,062.71	
331	30	15.6# DP	31.85	9,339.14	2,030.86	
332	X	15.6# DP	31.39	9,370.53	1,999.47	
333	XX	15.6# DP	31.45	9,401.98	1,968.02	
334	31	15.6# DP	31.86	9,433.84	1,936.16	
335	X	15.6# DP	31.72	9,465.56	1,904.44	
336	XX	15.6# DP	32.22	9,497.78	1,872.22	
337	32	15.6# DP	31.55	9,529.33	1,840.67	
338	X	15.6# DP	31.85	9,561.18	1,808.82	
339	XX	15.6# DP	32.5	9,593.68	1,776.32	
340	33	15.6# DP	32.47	9,626.15	1,743.85	
341	X	15.6# DP	32.48	9,658.63	1,711.37	
342	XX	15.6# DP	32.24	9,690.87	1,679.13	
343	34	15.6# DP	31.99	9,722.86	1,647.14	
344	X	15.6# DP	31.9	9,754.76	1,615.24	
345	XX	15.6# DP	32.56	9,787.32	1,582.68	
346	35	15.6# DP	32.6	9,819.92	1,550.08	
347	X	15.6# DP	31.73	9,851.65	1,518.35	
348	XX	15.6# DP	32.61	9,884.26	1,485.74	
349	36	15.6# DP	32.15	9,916.41	1,453.59	
350	X	15.6# DP	32.1	9,948.51	1,421.49	
351	XX	15.6# DP	31.92	9,980.43	1,389.57	
352	37	15.6# DP	31.91	10,012.34	1,357.66	
353	X	15.6# DP	30.73	10,043.07	1,326.93	
354	XX	15.6# DP	31.94	10,075.01	1,294.99	
355	38	15.6# DP	32.34	10,107.35	1,262.65	
356	X	15.6# DP	31.86	10,139.21	1,230.79	
357	XX	15.6# DP	31.88	10,171.09	1,198.91	
358	39	15.6# DP	32.43	10,203.52	1,166.48	
359	X	15.6# DP	31.64	10,235.16	1,134.84	
360	XX	15.6# DP	31.94	10,267.10	1,102.90	
361	40	15.6# DP	32.24	10,299.34	1,070.66	
362	X	15.6# DP	31.54	10,330.88	1,039.12	
363	XX	15.6# DP	31.55	10,362.43	1,007.57	
364	41	15.6# DP	32.26	10,394.69	975.31	
365	X	15.6# DP	32.49	10,427.18	942.82	
366	XX	15.6# DP	31.83	10,459.01	910.99	
367	42	15.6# DP	31.53	10,490.54	879.46	
368	X	15.6# DP	31.82	10,522.36	847.64	
369	XX	15.6# DP	31.8	10,554.16	815.84	
370	43	15.6# DP	31.8	10,585.96	784.04	
371	X	15.6# DP	31.85	10,617.81	752.19	
372	XX	15.6# DP	31.93	10,649.74	720.26	
373	44	15.6# DP	32.09	10,681.83	688.17	
374	X	15.6# DP	31.63	10,713.46	656.54	
375	XX	15.6# DP	31.55	10,745.01	624.99	
376	45	15.6# DP	32.12	10,777.13	592.87	
377	X	15.6# DP	31.55	10,808.68	561.32	
378	XX	15.6# DP	31.51	10,840.19	529.81	



Baker Oil Tools

TALLY SHEET

CUSTOMER

BBC

WELL NAME

CVR 5-63-32-1609 CH

DATE

7/14/2013

SERVICE REP

TR PLUMMER

OPENHOLE TD

11,390.00

Item #	Joint #	DESCRIPTION:	LENGTH:	ACC. LENGTH	DEPTH	COMMENTS:
					11,370.00	
379	46	15.6# DP	31.71	10,871.90	498.10	
380	X	15.6# DP	32.31	10,904.21	465.79	
381	XX	15.6# DP	31.6	10,935.81	434.19	
382	47	15.6# DP	32.09	10,967.90	402.10	
383	X	15.6# DP	31.65	10,999.55	370.45	
384	XX	15.6# DP	31.86	11,031.41	338.59	
385	48	15.6# DP	31.7	11,063.11	306.89	
386	X	15.6# DP	32.16	11,095.27	274.73	
387	XX	15.6# DP	31.99	11,127.26	242.74	
388	49	15.6# DP	31.32	11,158.58	211.42	
389	X	15.6# DP	31.41	11,189.99	180.01	
390	XX	15.6# DP	31.35	11,221.34	148.66	
391	50	15.6# DP	32.27	11,253.61	116.39	
392	X	15.6# DP	31.82	11,285.43	84.57	
393	XX	15.6# DP	31.65	11,317.08	52.92	
394	51	15.6# DP	32.56	11,349.64	20.36	
395	X	15.6# DP	31.45	11,381.09	(11.09)	
396				11,381.09	(11.09)	
397				11,381.09	(11.09)	
398				11,381.09	(11.09)	
399				11,381.09	(11.09)	
400				11,381.09	(11.09)	
401				11,381.09	(11.09)	
402				11,381.09	(11.09)	
403				11,381.09	(11.09)	
404				11,381.09	(11.09)	
405				11,381.09	(11.09)	
406				11,381.09	(11.09)	
407				11,381.09	(11.09)	
408				11,381.09	(11.09)	
409				11,381.09	(11.09)	
410				11,381.09	(11.09)	
411				11,381.09	(11.09)	
412				11,381.09	(11.09)	
413				11,381.09	(11.09)	
414				11,381.09	(11.09)	
415				11,381.09	(11.09)	
416				11,381.09	(11.09)	
417				11,381.09	(11.09)	
418				11,381.09	(11.09)	
419				11,381.09	(11.09)	
420				11,381.09	(11.09)	
421				11,381.09	(11.09)	
422				11,381.09	(11.09)	
423				11,381.09	(11.09)	
424				11,381.09	(11.09)	
425				11,381.09	(11.09)	
426				11,381.09	(11.09)	
427				11,381.09	(11.09)	
428				11,381.09	(11.09)	
429				11,381.09	(11.09)	
430				11,381.09	(11.09)	
431				11,381.09	(11.09)	
432				11,381.09	(11.09)	



Baker Oil Tools

Casper, Wyoming

CUSTOMER: BILL BARRETT CORP.

LEASE/WELL: CVR 5-63-32-1609 CH

DATE: July 9, 2013

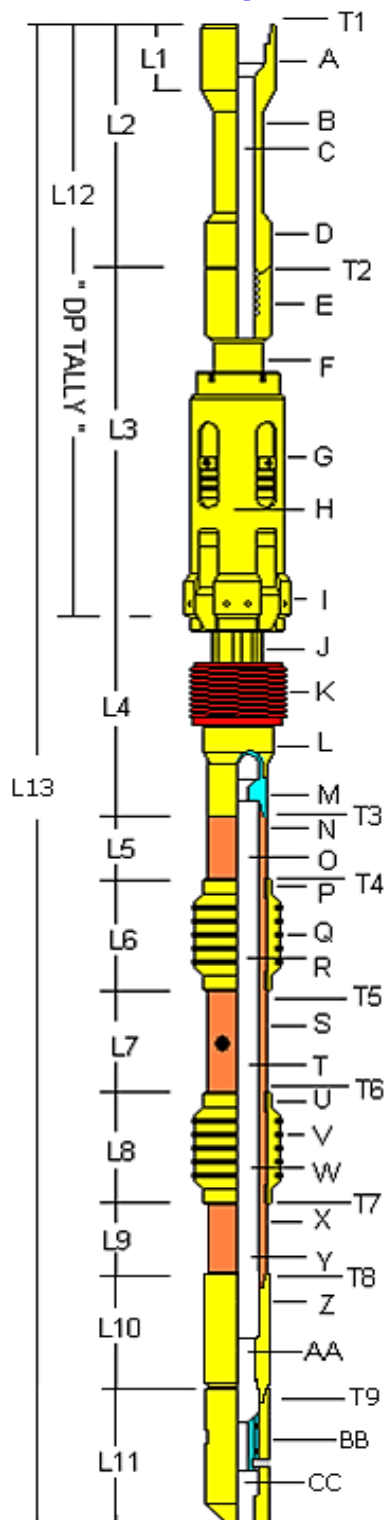


307-265-4685

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

"RH SPECIAL FN" SETTING TOOL WITH PBR PACKOFFS & BALL SEAT



OD / ID		LENGTHS	
A (in)	4.781	L1 (ft)	1.67
B (in)	3.500	L2 (ft)	7.69
C (in)	2.500	L3 (ft)	2.93
D (in)	4.750	L4 (ft)	1.27
E (in)	4.750	L5 (ft)	0.29
F (in)	3.250	L6 (ft)	1.00
G (in)	4.750	L7 (ft)	6.59
H (in)	2.000	L8 (ft)	1.22
I (in)	5.687	L9 (ft)	5.67
J (in)	3.062	L10 (ft)	1.10
K (in)	5.125	L11 (ft)	0.79
L (in)	3.812	L12 (ft)	10.64
M (in)	3.500	L13 (ft)	26.73
N (in)	3.593		
O (in)	2.031	THREADS	
P (in)	3.750	T1 - Size/Type	3.5 / IF
Q (in)	4.031	T1 - Torque	10850
R (in)	2.000	T2 - Size/Type	3.5 / IF
S (in)	3.062	T2 - Torque	10850
T (in)	1.968	T3 - Size/Type	2.375" 8rd
U (in)	3.250	T3 - Torque	2270
V (in)	3.843	T4 - Size/Type	2.375" 8rd
W (in)	2.062	T4 - Torque	2270
X (in)	2.375	T5 - Size/Type	2.375" 8rd
Y (in)	2.000	T5 - Torque	2270
Z (in)	3.062	T6 - Size/Type	2.375" 8rd
AA (in)	1.625	T6 - Torque	2270
BB (in)	3.062	T7 - Size/Type	2.375" 8rd
CC (in)	1.375	T7 - Torque	2270
	DRIFT	T8 - Size/Type	2.375" 8rd
		T8 - Torque	2270
	F-SUB INFO (Brass +/- 15%)	T9 - Size/Type	2.375" 8rd
	Ball Size (in)	T9 - Torque	2270
	# Pins		
	PSI / PIN		
	Shear PSI		

TOP X-OVER INFO	
Box Thread	NA
Pin Thread	NA
OD (in)	NA
ID (in)	NA
Length (ft)	NA

DESCRIPTION	MATERIAL #	SERIAL #
8' Lift Sub	H265200004	12100851
2RH Running Tool	H265230127	RC1128
V-ring Pack off		
2" Spacers		
5' Perf Pup		
3.875" O-Ring Packoff		
Profile Nipple		
F-Sub	H677013820	

Jason

ASSEMBLED BY / DATE:

Adel Sobhy

APPROVED BY / DATE:



Baker Oil Tools

Casper, Wyoming

CUSTOMER: BILL BARRETT CORP.

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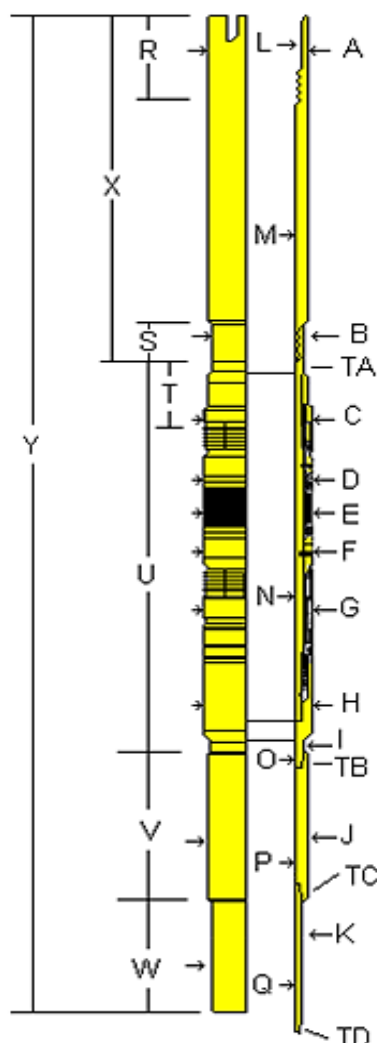


307-265-4685

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 SPECIAL "RC" SLEEVE



ID / OD		THREAD INFO	
A (in)	5.750	TA - Thread Size	4.5"
B (in)	4.968	TA - Thread Type	Vam Top
C (in)	5.875	TA - Thread Weight	12.6#
D (in)	5.843	TA - Torque	5200
E (in)	5.781	TB - Thread Size	4.5"
F (in)	5.843	TB - Thread Type	Vam Top
G (in)	5.875	TB - Thread Weight	12.6#
H (in)	5.875	TB - Torque	5200
I (in)	4.500	TC - Thread Size	4.5"
J (in)	5.062	TC - Thread Type	LTC
K (in)	4.531	TC - Thread Weight	11.6#
L (in)	5.312	TC - Torque	3020
M (in)	4.000	TD - Thread Size	4.5"
N (in)	3.875	TD - Thread Type	LTC
O (in)	3.937	TD - Thread Weight	11.6#
P (in)	3.875	TD - Torque	3020
Q (in)	4.000	S-3 INFO	
R (ft)	0.61	# SHEAR SCREWS	6
S (ft)	0.39	PSI / SCREW	247
T (ft)	1.22	ACTIVATION PRESSURE	1482
U (ft)	4.63	PACKOFF PRESSURE	5000
V (ft)	2.00	DRIFTED (in)	3.875
W (ft)	5.46		
X (ft)	4.00		
Y (ft)	16.08		

S-3 Packer	H409400010	Qty	1
RC Sleeve	10292414	Qty	1
3.875" PBR	10287024	Qty	1
6' Pup Jts	H299920030	Qty	1

Pat / Jason

ASSEMBLED BY / DATE:

Adel Sobhy

APPROVED BY / DATE:



Baker Oil Tools

Casper, Wyoming

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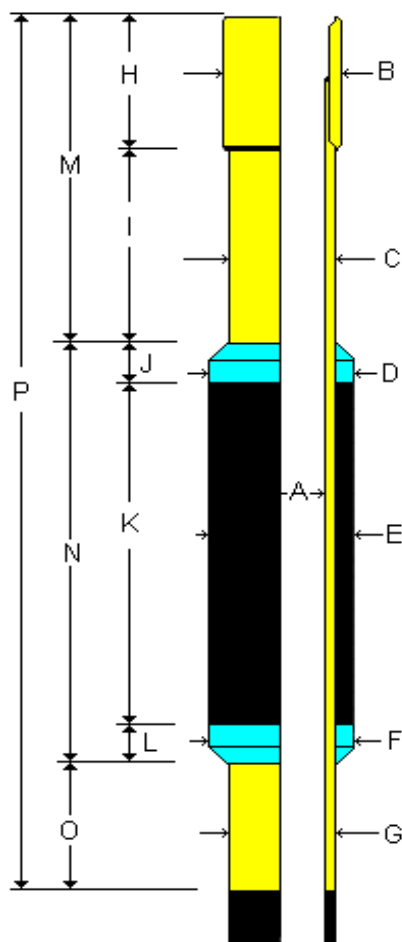
307-265-4685

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 HYD PACKER

OH FRAC PACKER SPECIFICATION SHEET - Order in Hole (Bottom Up)



	1	2	3	4	5
WO#:	040717-001-74	040717-001-50	040717-001-29	040717-001-28	040717-001-57
A (in)	4.000	4.000	4.000	4.000	4.000
B (in)	5.000	5.000	5.000	5.000	5.000
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
H (ft)	0.59	0.59	0.59	0.59	0.59
I (ft)	3.42	3.42	3.42	3.42	3.42
J (ft)	0.34	0.34	0.34	0.34	0.34
K (ft)	7.01	7.01	6.99	7.00	7.00
L (ft)	0.34	0.34	0.34	0.34	0.34
M (ft)	4.01	4.01	4.01	4.01	4.01
N (ft)	7.69	7.69	7.67	7.68	7.68
O (ft)	2.41	2.41	2.42	2.41	2.42
P (ft)	14.09	14.10	14.10	14.10	14.10
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
Tested PSI	NA	NA	NA	NA	NA
Air/Water	NA	NA	NA	NA	NA
Packer. #'s	H304070012			Qty	5

Zack / Jason

TESTED & INSPECTED BY / DATE:

Adel Sobhy

APPROVED BY / DATE:



Baker Oil Tools

Casper, Wyoming

CUSTOMER: BILL BARRETT CORP.

LEASE/WELL: CVR 5-63-32-1609 CH

DATE: July 9, 2013



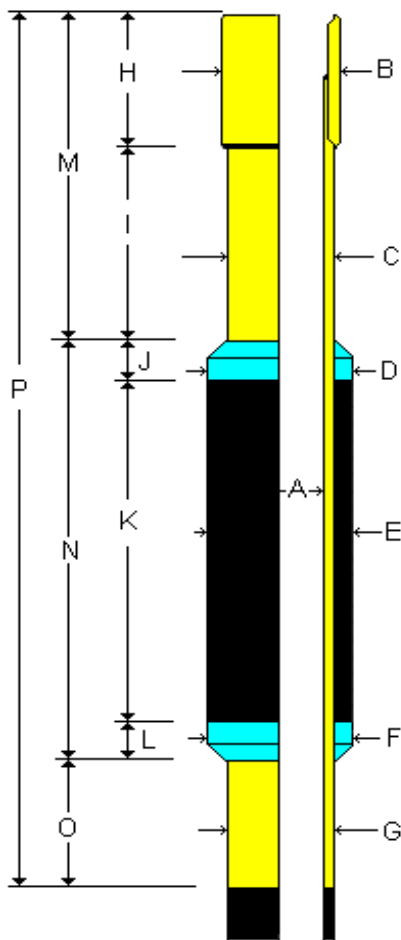
307-265-4685

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 HYD PACKER

OH FRAC PACKER SPECIFICATION SHEET - Order in Hole (Bottom Up)



	6	7	8	9	10
WO#:	040717-001-76	040717-001-27	040717-001-75	040717-001-63	040717-001-31
A (in)	4.000	4.000	4.000	4.000	4.000
B (in)	5.000	5.000	5.000	5.000	5.000
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
H (ft)	0.59	0.59	0.59	0.59	0.59
I (ft)	3.41	3.41	3.39	3.40	3.42
J (ft)	0.34	0.34	0.34	0.34	0.34
K (ft)	6.99	7.00	7.00	7.00	7.00
L (ft)	0.34	0.34	0.34	0.34	0.34
M (ft)	4.00	4.00	3.98	3.99	4.00
N (ft)	7.67	7.68	7.68	7.68	7.68
O (ft)	2.42	2.43	2.43	2.43	2.42
P (ft)	14.09	14.10	14.09	14.08	14.10
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
Tested PSI	NA	NA	NA	NA	NA
Air/Water	NA	NA	NA	NA	NA
Packer. #'s	H304070012			Qty	5

Zack / Jason

TESTED & INSPECTED BY / DATE:

Adel Sobhy

APPROVED BY / DATE:



Baker Oil Tools

Casper, Wyoming

CUSTOMER: BILL BARRETT CORP.

LEASE/WELL: CVR 5-63-32-1609 CH

DATE: July 9, 2013



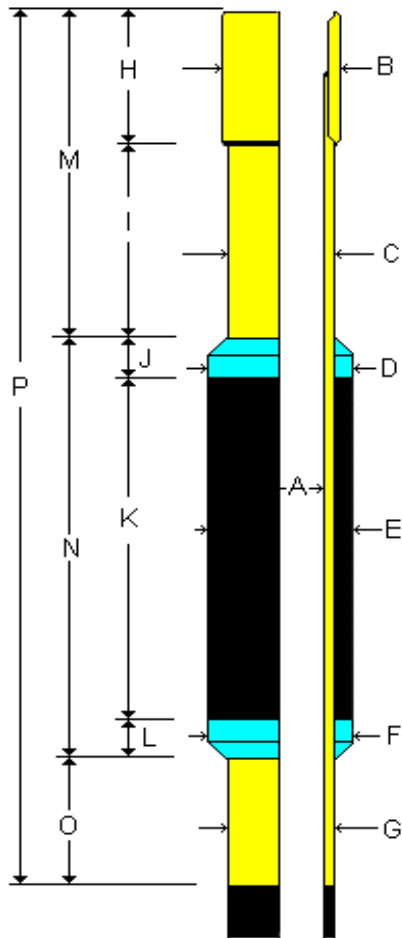
307-265-4685

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 HYD PACKER

OH FRAC PACKER SPECIFICATION SHEET - Order in Hole (Bottom Up)



	11	12	13	14	15
WO#:	040717-001-65	040717-001-34	040717-001-20	040717-001-18	040717-001-12
A (in)	4.000	4.000	4.000	4.000	4.000
B (in)	5.000	5.000	5.000	5.000	5.000
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
H (ft)	0.59	0.59	0.59	0.59	0.59
I (ft)	3.41	3.40	3.42	3.41	3.41
J (ft)	0.34	0.34	0.34	0.34	0.34
K (ft)	6.99	7.00	7.00	7.00	7.00
L (ft)	0.34	0.34	0.34	0.34	0.34
M (ft)	4.00	3.99	4.01	4.00	4.00
N (ft)	7.67	7.68	7.68	7.68	7.68
O (ft)	2.42	2.44	2.42	2.42	2.42
P (ft)	14.09	14.10	14.10	14.10	14.10
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
Tested PSI	NA	NA	NA	NA	NA
Air/Water	NA	NA	NA	NA	NA
Packer. #'s	H304070012			Qty	5

Zack / Jason

TESTED & INSPECTED BY / DATE:

Adel Sobhy

APPROVED BY / DATE:



Baker Oil Tools

Casper, Wyoming

CUSTOMER: BILL BARRETT CORP.

LEASE/WELL: CVR 5-63-32-1609 CH

DATE: July 9, 2013



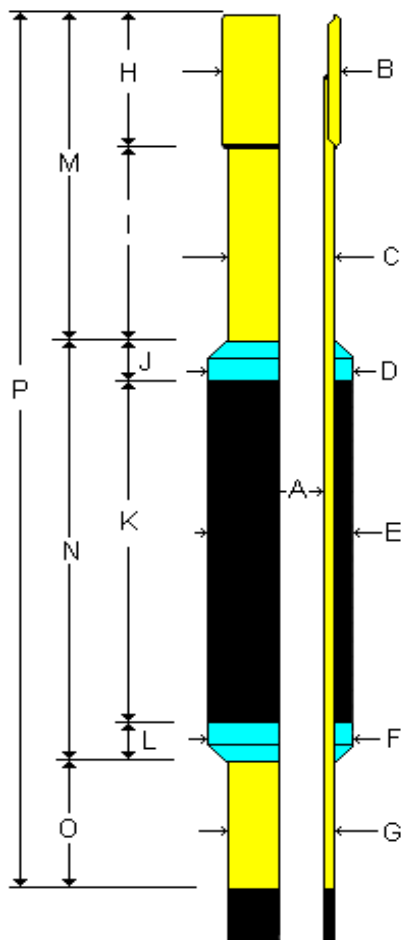
307-265-4685

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 HYD PACKER

OH FRAC PACKER SPECIFICATION SHEET - Order in Hole (Bottom Up)



	16	17	18	19	20
WO#:	040717-001-13	040717-011-28	040717-001-15	040717-001-46	040718-001-10
A (in)	4.000	4.000	4.000	4.000	4.000
B (in)	5.000	5.000	5.000	5.000	5.000
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
H (ft)	0.59	0.59	0.59	0.59	0.59
I (ft)	3.42	3.45	3.42	3.42	3.40
J (ft)	0.34	0.34	0.34	0.34	0.34
K (ft)	7.01	7.00	7.00	7.00	7.00
L (ft)	0.34	0.34	0.34	0.34	0.34
M (ft)	4.01	4.04	4.01	4.01	4.00
N (ft)	7.68	7.67	7.67	7.68	7.68
O (ft)	2.41	2.39	2.43	2.41	2.43
P (ft)	14.10	14.10	14.10	14.09	14.10
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
Tested PSI	NA	NA	NA	NA	NA
Air/Water	NA	NA	NA	NA	NA
Packer. #'s	H304070012			Qty	5

Zack / Jason

TESTED & INSPECTED BY / DATE:

Adel Sobhy

APPROVED BY / DATE:



Baker Oil Tools

Casper, Wyoming

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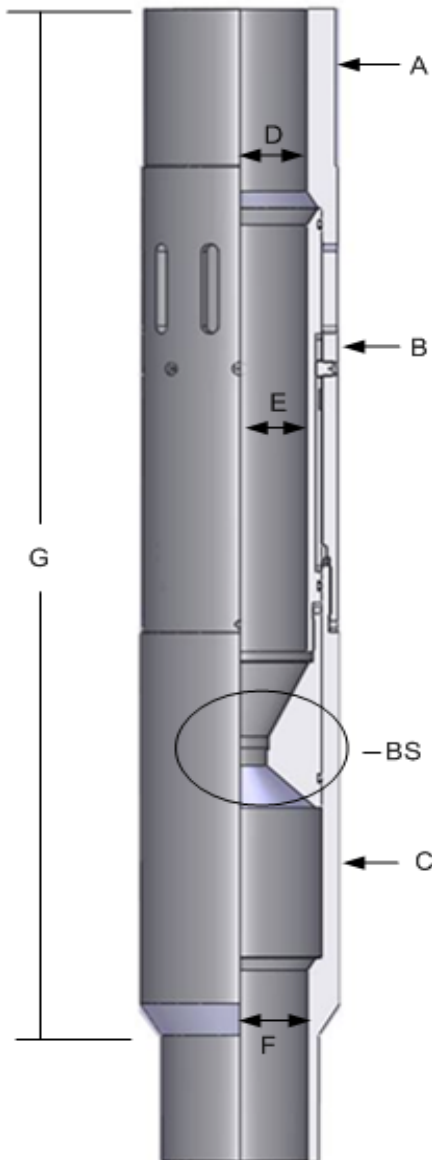
307-265-4685

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)



	6	7	8	9	10
STO#	5501689813				
Ball Size (in)	2.125	2.250	2.375	2.500	2.625
Ball Seat ID (in)	2.025	2.150	2.275	2.400	2.525
A (in)	4.968	4.968	4.968	4.968	4.968
B (in)	5.593	5.593	5.593	5.593	5.593
C (in)	5.593	5.593	5.593	5.593	5.593
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	2.41
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	P110	P110	P110	P110	P110
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
Frac Sl. #'s	Upper Level			Qty	5

TESTED & INSPECTED BY / DATE:

Adel Sobhy
APPROVED BY / DATE:



Baker Oil Tools

Casper, Wyoming

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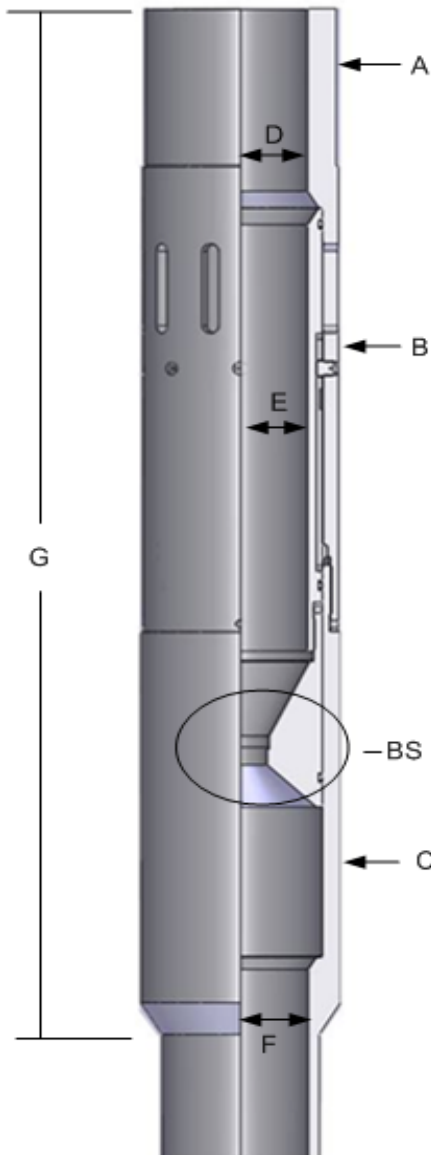
307-265-4685

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)



	11	12	13	14	15
STO#	5501689813				
Ball Size (in)	2.750	2.875	3.000	3.125	3.250
Ball Seat ID (in)	2.650	2.775	2.900	3.025	3.150
A (in)	4.968	4.968	4.968	4.968	4.968
B (in)	5.593	5.593	5.593	5.593	5.593
C (in)	5.593	5.593	5.593	5.593	5.593
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	2.41
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	P110	P110	P110	P110	P110
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
Frac Sl. #'s	Upper Level			Qty	5

TESTED & INSPECTED BY / DATE:

Adel Sobhy
APPROVED BY / DATE:



Baker Oil Tools

Casper, Wyoming

CUSTOMER: BILL BARRETT CORP.

LEASE/WELL: CVR 5-63-32-1609 CH

DATE: July 9, 2013



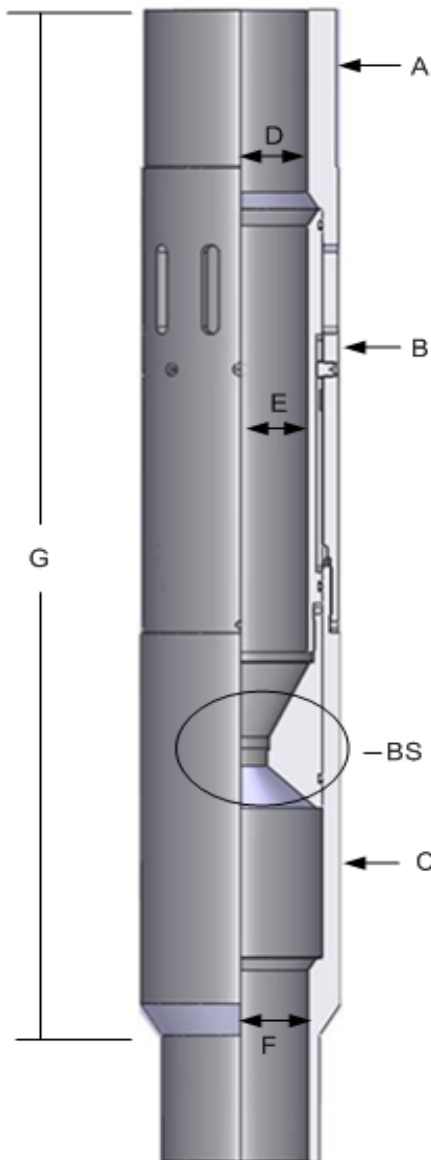
307-265-4685

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)



	16	17			
STO#	5501689813				
Ball Size (in)	3.375	3.500			
Ball Seat ID (in)	3.275	3.400			
A (in)	4.968	4.968			
B (in)	5.593	5.593			
C (in)	5.593	5.593			
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"			
Thd. Type	LTC	LTC			
Thd. Weight	11.6#	11.6#			
Grade	P110	P110			
Torque #	3020	3020			
Tested PSI	130	130			
Air/Water	Air	Air			
# Screws	6	6			
PSI - Screw	381	381			
Open PSI	2286	2286			
Frac Sl. #'s	Upper Level			Qty	2

TESTED & INSPECTED BY / DATE:

Adel Sobhy
APPROVED BY / DATE:



Baker Oil Tools

CASPER, WY

CUSTOMER: BILL BARRETT CORP.

LEASE/WELL: CVR 5-63-32-1609 CH

DATE: July 9, 2013



307-265-4685

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

DIMENSIONS	
C (in)	4.968
D (in)	5.593
E (in)	5.593
I (in)	3.875
L (ft)	2.720
Thd. Size	4 1/2"
Thd. Type	LTC
Weight	11.6#
Grade	P-110
Torque #	3020
Tested PSI	110
Air/Water	AIR

TEST SHIFTS	
Shift # 1	
Screw Size	
Mat #	HWWGEBOFB
Batch #	129023-03090811
# Screws	2
PSI/screw	805
Nominal PSI	1610
Actual PSI	
Shift # 2	
Screw Size	
Mat #	HWWGEBOFB
Batch #	129023-03090811
# Screws	2
PSI/screw	805
Nominal PSI	1610
Actual PSI	
Shift # 3	
Screw Size	
Mat #	HWWGEBOFB
Batch #	129023-03090811
# Screws	2
PSI/screw	805
Nominal PSI	1610
Actual PSI	

AS-RUN	
# Screws	5
PSI - Screw	805
Open PSI	4025

MATERIAL #'s			
"P" Sleeve #	H809880001	Qty	1

Adel Sobhy



Baker Oil Tools

Casper Wyoming

CUSTOMER: BILL BARRETT CORP.

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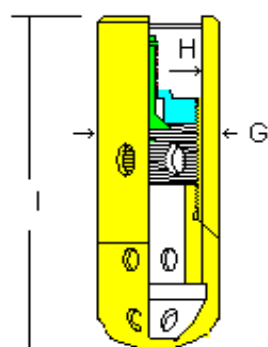
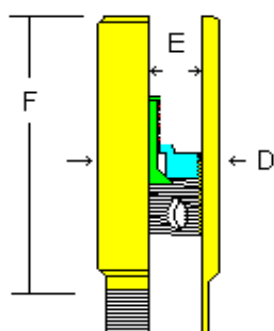
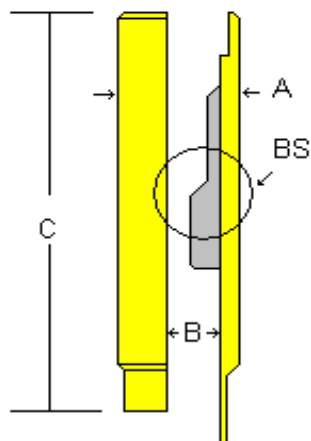


307-265-4685

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



# Code	
Color Code	
BS ID (in)	1.000
Ball Size (in)	1.250
A (in)	5.062
B (in)	4.000
C (ft)	1.36
D (in)	5.031
E (in)	4.187
F (ft)	1.07
G (in)	5.000
H (in)	4.187
I (ft)	2.52
Thd. Size	4 1/2"
Thd. Type	LTC
Thd. Weight	11.6#
Grade	P110
Drifted:	N/A
Torque #	3020
Tested PSI	N/A
Air/Water	N/A

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

INSPECTED BY / DATE:

Adel Sobhy

APPROVED BY: