



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

S-3 LINER TOP	TVD
7,099.44	7,600.00
Casing Shoe	KOP
7,914.00	7,220.00

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

FracPoint Space Out Diagram

BILL BARRETT CORPORATION State of CO N 1S-66-36-0108CH



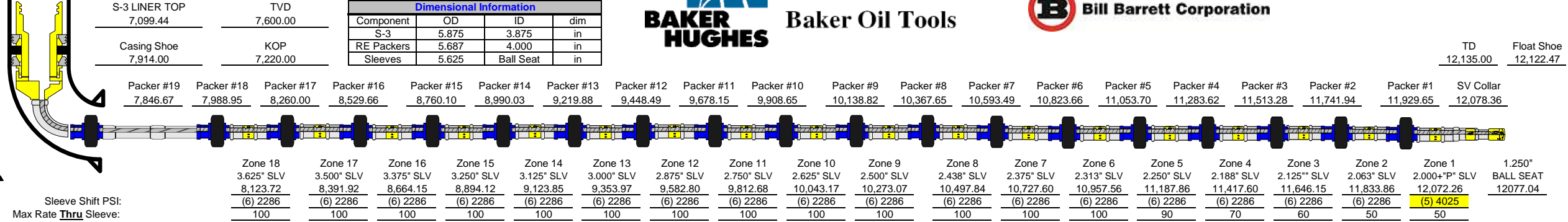
Displacements	BBLS	GALS
Liner Top	271.62	11,408
3.625" SLV	287.54	12,077
3.500" SLV	291.71	12,252
3.375" SLV	295.94	12,429
3.250" SLV	299.51	12,580
3.125" SLV	303.08	12,730
3.000" SLV	306.66	12,880
2.875" SLV	310.22	13,029
2.750" SLV	313.79	13,179
2.625" SLV	317.37	13,330

Displacements	BBLS	GALS
2.500" SLV	320.94	13,480
2.438" SLV	324.44	13,626
2.375" SLV	328.01	13,776
2.313" SLV	331.58	13,926
2.250" SLV	335.16	14,077
2.188" SLV	338.73	14,227
2.125" SLV	342.28	14,376
2.063" SLV	345.20	14,498
2.000+"P" SLV	348.90	14,654
BALL SEAT	348.98	14,657
Float Shoe	349.68	14,687

Length of Zone - FT			
Zone 1	205.35	Zone 10	230.17
Zone 2	187.71	Zone 11	230.50
Zone 3	228.66	Zone 12	229.66
Zone 4	229.66	Zone 13	228.61
Zone 5	229.92	Zone 14	229.85
Zone 6	230.04	Zone 15	229.93
Zone 7	230.17	Zone 16	230.44
Zone 8	225.84	Zone 17	269.66
Zone 9	228.83	Zone 18	271.05



Baker Oil Tools



7.5.1-1F4 Frac-Point Space Out Diagram



Baker Oil Tools

Casper, Wyoming

CUSTOMER: **BILL BARRETT CORP.**LEASE/WELL: **State of CO N 1S-66-36-0108CH**DATE: **March 4, 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 #: **5501852807**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

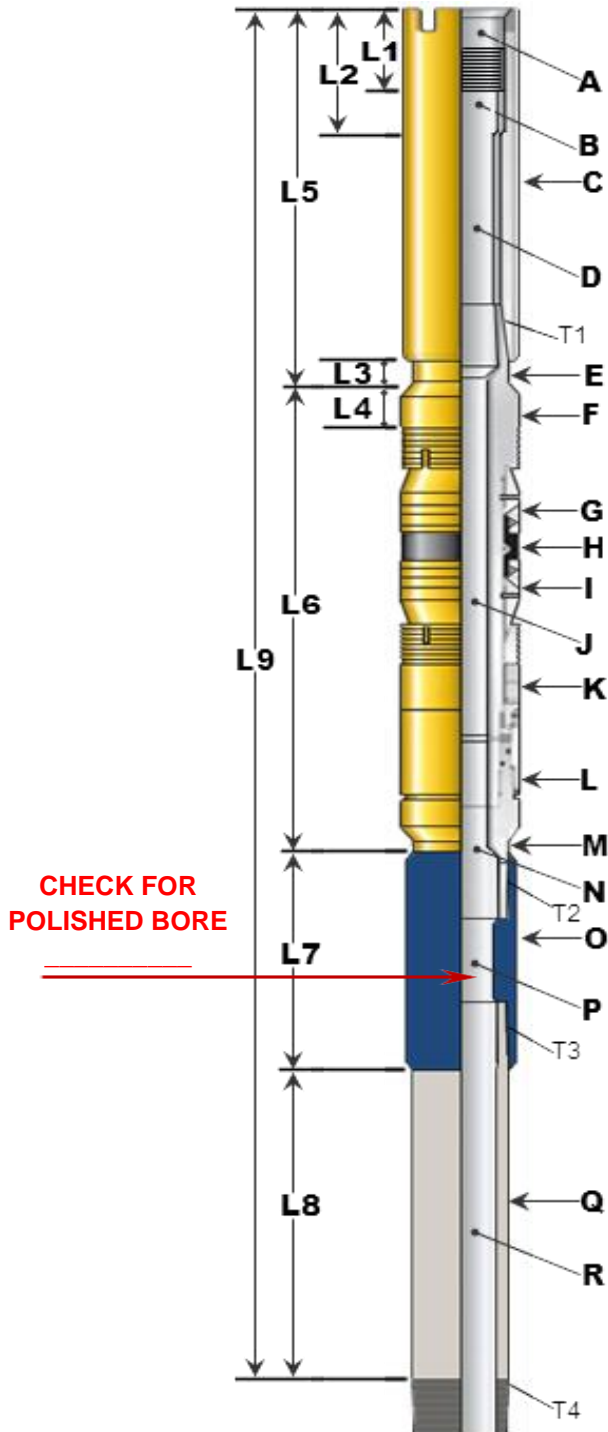
Casper, Wyoming

CUSTOMER: **BILL BARRETT CORP.**LEASE/WELL: **State of CO N 1S-66-36-0108CH**DATE: **March 4, 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)	4.750	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) ★	5.937	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		
J (in)	3.875		
K (in)	5.875		
★ 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)	4.500	ACTIVATION PRESSURE	1976
R (in)	4.000	PACKOFF PRESSURE	5000
L1 (ft)	0.61	DRIFT (in)	
L2 (ft)	1.23		
L3 (ft)	0.39		
L4 (ft)	1.22		
L5 (ft)	4.00	SLIPS VISUALLY CHECKED	
L6 (ft)	4.63		
L7 (ft)	2.00		
L8 (ft)	5.50		
L9 (ft)	16.12		

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/Kolt 3-3-14

ASSEMBLED BY:

Trottier 3-4-14

APPROVED BY:



Baker Oil Tools

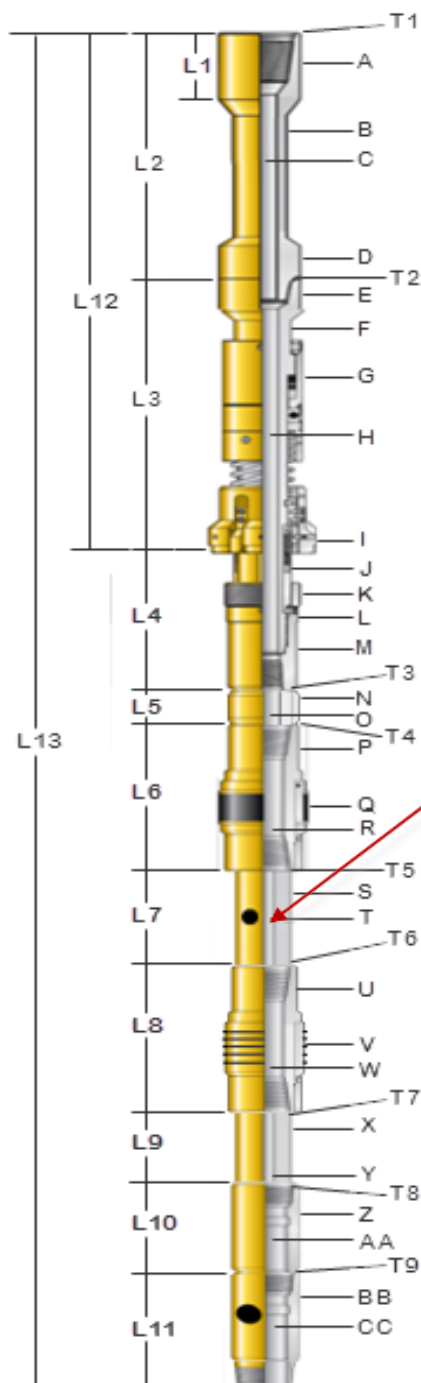
Casper, Wyoming

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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**PORTED PUP: KJ/PW**

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)	7.67
C (in)	2.687	L3 (ft)	2.80
D (in)	4.750	L4 (ft)	1.27
E (in)	4.750	L5 (ft)	0.26
F (in)	3.250	L6 (ft)	0.96
G (in)	4.937	L7 (ft)	6.55
H (in)	2.000	L8 (ft)	1.29
I (in)	5.687	L9 (ft)	5.68
J (in)	3.062	L10 (ft)	0.59
K (in)	5.125	L11 (ft)	0.80
L (in)	3.812	L12 (ft)	10.48
M (in)	3.500	L13 (ft)	27.76
N (in)	3.000	THREADS	
O (in)	2.000		
P (in)	3.625	★ 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) ★	2.000	T3 - Size/Type	2 3/8" EUE
U (in)	3.218	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	ZCA00105
2RH/RC Setting Tool	10512222
4" V-ring Pack off	NSN
3.875" O-Ring Packoff	NSN
F-Sub	NSN
Profile Nipple (1.750" Ball)	NSN

Pat/Jeremiah/Kolt 3-3-14

ASSEMBLED BY / DATE:

Trottier 3-4-14

APPROVED BY / DATE:



Baker Oil Tools

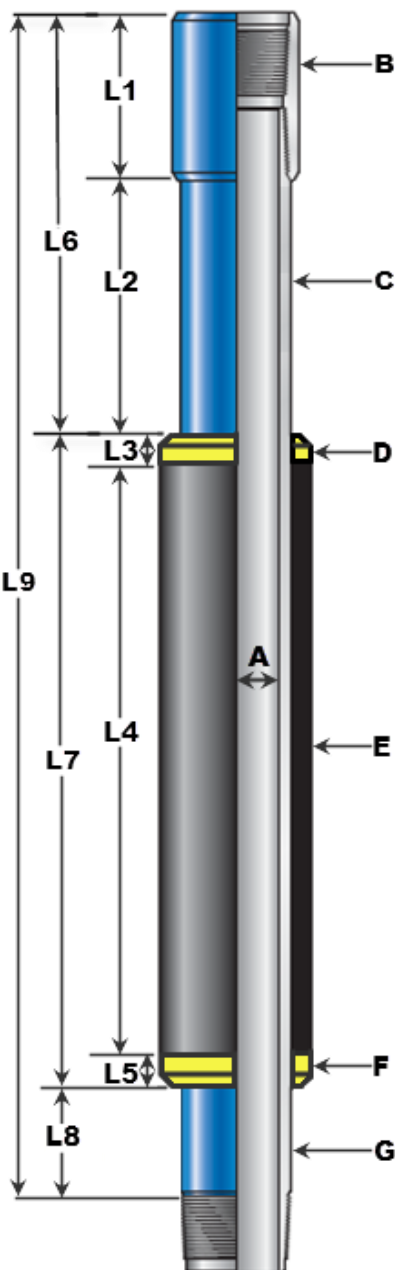
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CUSTOMER: **BILL BARRETT CORP.**LEASE/WELL: **State of CO N 1S-66-36-0108CH**DATE: **March 4, 2014**

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#:	4506487469-17	4506487469-16	4506487469-25	4506487469-24	4506487469-5
A (in)	4.031	4.031	4.031	4.031	4.031
B (in)	5.000	5.000	5.000	5.000	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	5.718	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)	3.56	3.55	3.54	3.54	3.54
L3 (ft)	0.34	0.34	0.34	0.34	0.34
L4 (ft)	6.99	6.98	7.00	7.01	6.99
L5 (ft)	0.34	0.34	0.34	0.34	0.34
L6 (ft)	4.15	4.14	4.13	4.12	4.13
L7 (ft)	7.67	7.66	7.68	7.69	7.67
L8 (ft)	2.41	2.42	2.43	2.40	2.42
L9 (ft)	14.22	14.22	14.23	14.20	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 2-18-14

TESTED & INSPECTED BY / DATE:

Trottier 3-4-14

APPROVED BY / DATE:



Baker Oil Tools

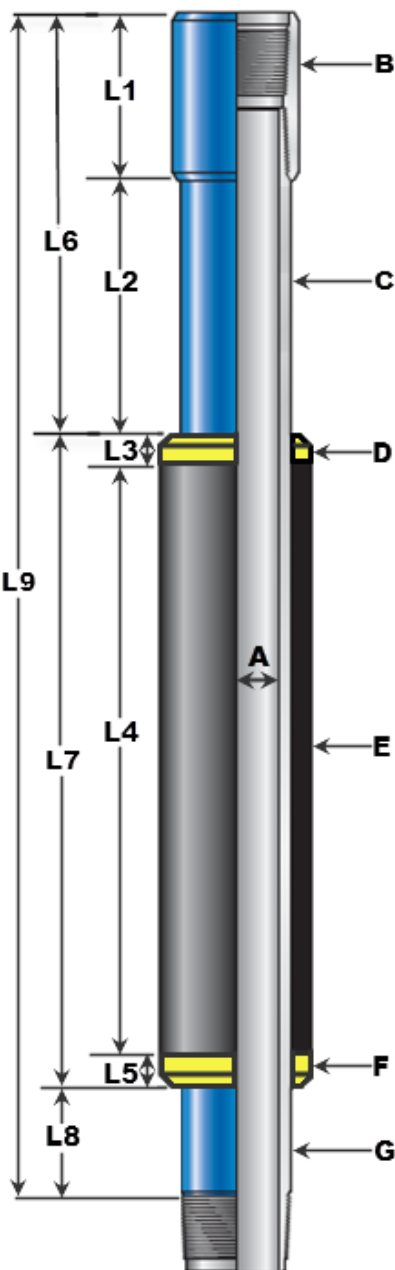
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WELLBORE INFORMATION

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#:	4506487469-4	4506487469-3	4506487469-2	4506487469-1	4506487469-10
A (in)	4.031	4.000	4.031	4.031	4.031
B (in)	4.968	4.968	4.968	5.000	4.968
C (in)	4.531	4.531	4.531	4.500	4.531
★ 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)	4.531	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	3.56	3.56	3.56
L3 (ft)	0.34	0.34	0.34	0.34	0.34
L4 (ft)	7.00	6.99	6.99	6.96	7.00
L5 (ft)	0.34	0.34	0.34	0.34	0.34
L6 (ft)	4.11	4.15	4.15	4.15	4.15
L7 (ft)	7.68	7.67	7.67	7.64	7.67
L8 (ft)	2.41	2.40	2.40	2.44	2.41
L9 (ft)	14.19	14.21	14.21	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 2-18-14

TESTED & INSPECTED BY / DATE:

Trottier 3-4-14

APPROVED BY / DATE:



Baker Oil Tools

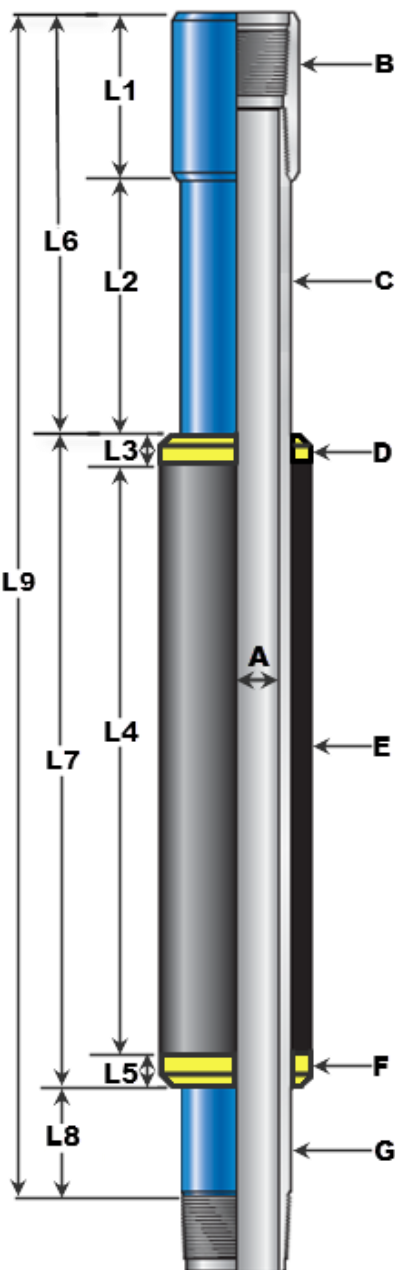
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Casing Size:	7"	Casing Weight:	26#	Casing ID:	6.276"	Casing Drift:	6.151"	Open Hole Size:	6.125"
Liner Size:	4 1/2"	Liner Weight:	11.6#	Liner Grade:	P-110	Liner Drift:	3.875"	Liner Thread:	LTC

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

	Packer. #'s	H304070012			
	11	12	13	14	15
WO#:	4506528364-51	4506528364-20	4506528364-19	4506528364-18	4506528364-63
A (in)	4.031	4.031	4.031	4.031	4.031
B (in)	5.000	4.968	4.968	4.968	4.968
C (in)	4.531	4.531	4.531	4.531	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	4.531	4.531	4.531	4.531
L1 (ft)	0.59	0.59	0.59	0.59	0.59
L2 (ft)	3.55	3.57	3.55	3.58	3.57
L3 (ft)	0.34	0.34	0.34	0.34	0.34
L4 (ft)	7.00	6.99	6.99	7.00	7.01
L5 (ft)	0.34	0.34	0.34	0.34	0.34
L6 (ft)	4.14	4.16	4.14	4.17	4.15
L7 (ft)	7.68	7.67	7.68	7.68	7.69
L8 (ft)	2.41	2.40	2.41	2.39	2.39
L9 (ft)	14.23	14.23	14.22	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 2-18-14

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Trottier 3-4-14

APPROVED BY / DATE:



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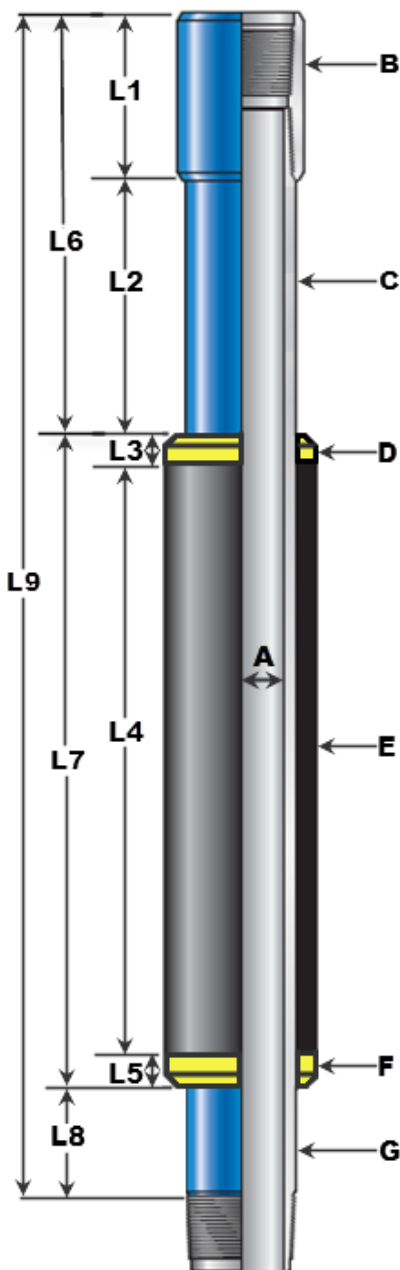
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Liner Size:	4 1/2"	Liner Weight:	11.6#	Liner Grade:	P-110	Liner Drift:	3.875"	Liner Thread:	LTC

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

Packer. #'s	H304070012			
16	17	18	19	EXTRA

WO#:	4506487469-28	4506487469-27	4506487469-29	4506487469-19	4506487469-18
A (in)	4.031	4.031	4.031	4.031	4.031
B (in)	5.000	4.968	5.000	5.000	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	5.718	5.718
★ F (in) ★	5.750	5.750	5.750	5.750	5.750
G (in)	4.531	4.531	4.531	4.500	4.531
L1 (ft)	0.59	0.59	0.59	0.59	0.59
L2 (ft)	3.58	3.58	3.58	3.57	3.56
L3 (ft)	0.34	0.34	0.34	0.34	0.34
L4 (ft)	6.97	6.98	6.99	6.98	6.99
L5 (ft)	0.34	0.34	0.34	0.34	0.34
L6 (ft)	4.16	4.17	4.16	4.16	4.15
L7 (ft)	7.65	7.66	7.67	7.66	7.67
L8 (ft)	2.41	2.40	2.40	2.41	2.40
L9 (ft)	14.22	14.22	14.22	14.22	14.21

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 2-18-14

TESTED & INSPECTED BY / DATE:

Trottier 3-4-14

APPROVED BY / DATE:



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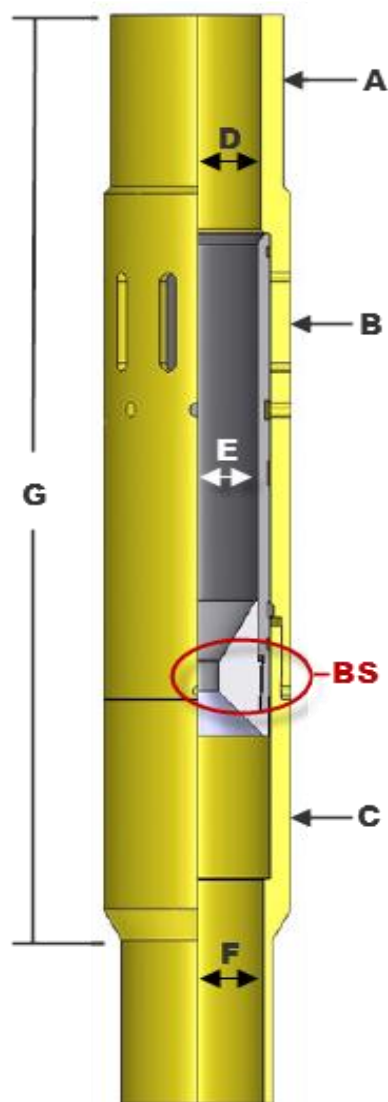
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Liner Size:	4 1/2"	Liner Weight:	11.6#	Liner Grade:	P-110	Liner Drift:	3.875"	Liner Thread:	LTC

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)	3.906	3.906	3.906	3.906	3.906
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	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 #	5501852807
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David 2-18-14

TESTED & INSPECTED BY / DATE:

Trottier 3-4-14

APPROVED BY / DATE:



Baker Oil Tools

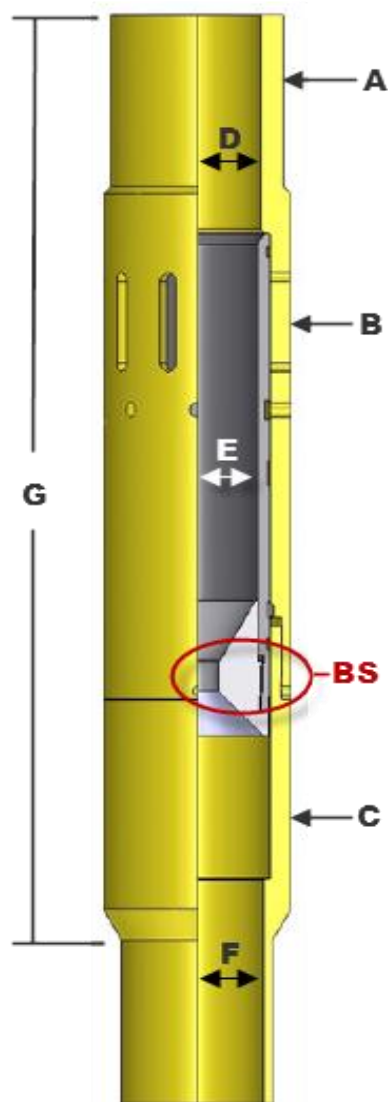
Casper, Wyoming

CUSTOMER: **BILL BARRETT CORP.**LEASE/WELL: **State of CO N 1S-66-36-0108CH**DATE: **March 4, 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)	3.906	3.906	3.906	3.906	3.906
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	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 #	5501852807
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David 2-18-14

TESTED & INSPECTED BY / DATE:

Trottier 3-4-14

APPROVED BY / DATE:



Baker Oil Tools

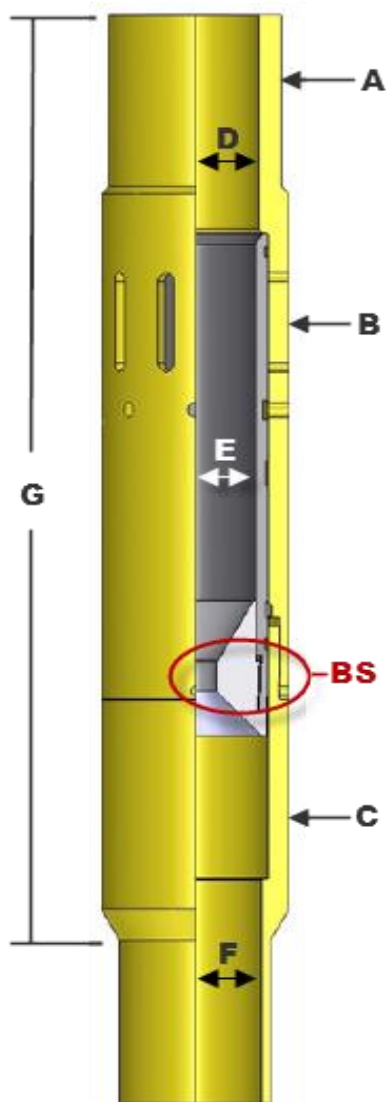
Casper, Wyoming

CUSTOMER: **BILL BARRETT CORP.**LEASE/WELL: **State of CO N 1S-66-36-0108CH**DATE: **March 4, 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)	3.906	4.125	4.125	3.906	4.125
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	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 #

5501852807

David 2-18-14

TESTED & INSPECTED BY / DATE:

Trottier 3-4-14

APPROVED BY / DATE:



Baker Oil Tools

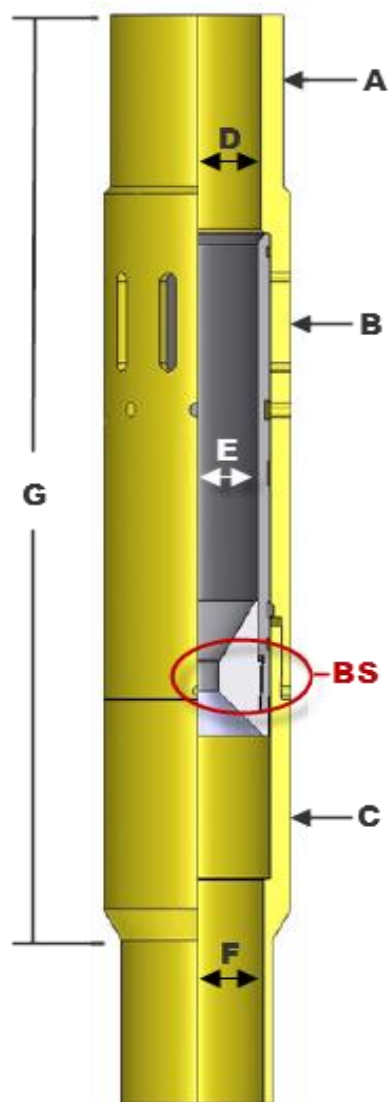
Casper, Wyoming

CUSTOMER: **BILL BARRETT CORP.**LEASE/WELL: **State of CO N 1S-66-36-0108CH**DATE: **March 4, 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)	4.125	3.906			
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 #	5501852807
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David 2-18-14

TESTED & INSPECTED BY / DATE:

Trottier 3-4-14

APPROVED BY / DATE:



Baker Oil Tools

CASPER, WY

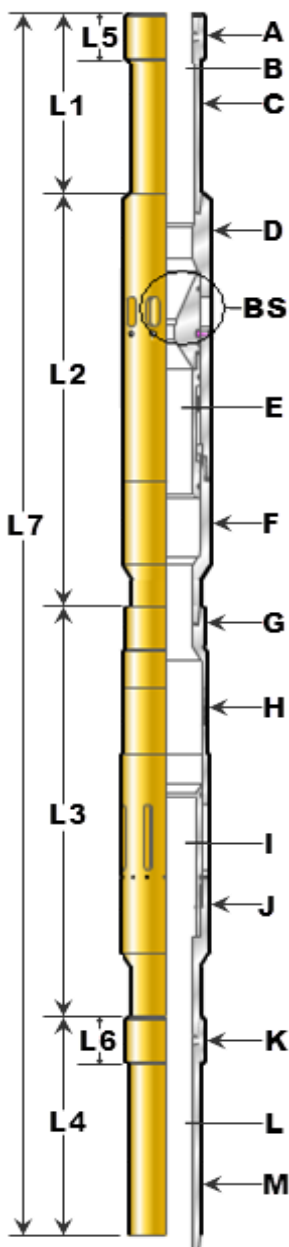
CUSTOMER: BILL BARRETT CORP.LEASE/WELL: State of CO N 1S-66-36-0108CHDATE: March 4, 2014

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	5.47
L2	2.40
L3	2.72
L4	1.48
L5	0.59
L6	0.59
L7	13.24
OD/ID (in)	
Ball Size	2.000
BS	1.948
A	5.000
B	4.000
C	4.531
★ 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	4.531

TEST SHIFTS	
Shift # 1	
Screw Size	1/4"-20
Mat #	HWWGE180JB
Batch #	165710-01050713
# Screws	2
PSI/screw	805
Nominal PSI	1610
Actual PSI	2100
Shift # 2	
Screw Size	1/4"-20
Mat #	HWWGE180JB
Batch #	165710-01050713
# Screws	2
PSI/screw	805
Nominal PSI	1610
Actual PSI	1800
Shift # 3	
Screw Size	1/4"-20
Mat #	HWWGE180JB
Batch #	165710-01050713
# Screws	2
PSI/screw	805
Nominal PSI	1610
Actual PSI	1750
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

Jeremiah/Jason S. 2-18-14

INSPECTED BY:

Trottier 3-4-14

APPROVED BY:



Baker Oil Tools

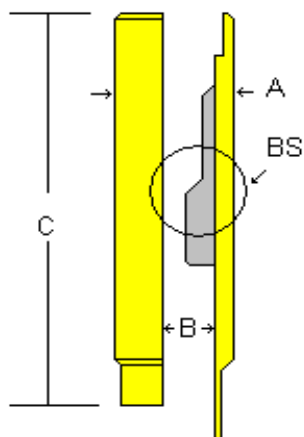
Casper Wyoming

CUSTOMER: **BILL BARRETT CORP.**LEASE/WELL: **State of CO N 1S-66-36-0108CH**DATE: **March 4, 2014**

307-233-1277

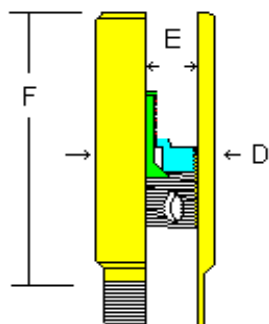
WELLBORE INFORMATION

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

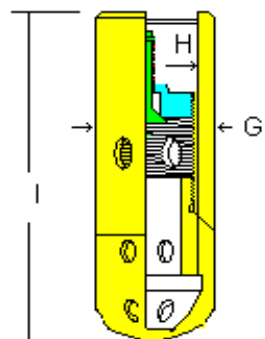
Solid Ball Seat	
BS ID (in)	1.000
Ball Size (in)	1.250
A (in)	5.062
B (in)	4.000
C (ft)	1.32

Ball Seat: 1.00" ID
Checked By: JW
1.250" Ball Seated
Checked By: PW



Single Valve Float Collar	
D (in)	5.000
E (in)	4.062
F (ft)	1.16

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)	5.000
H (in)	4.125
I (ft)	2.53

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

Jeremiah 3-2-14

INSPECTED BY / DATE:

Trottier 3-4-14

APPROVED BY:



Baker Oil Tools

Final Tally

CUSTOMER	Bill Barrett
WELL NAME	State of CO N 1S-66-36-0108CH
DATE	3/5/2014
SERVICE REP	John Stranahan/Jeremy Richenbauch

			OPENHOLE TD		12,135.00	
Item #	Joint #	DESCRIPTION:	LENGTH:	ACC. LENGTH	DEPTH	COMMENTS:
					12,125.00	
1	DVS	DV FLOAT SHOE	2.53	2.53	12,122.47	10' OFF BOTTOM
2	1	JT 4.5" 11.6# LTC	42.95	45.48	12,079.52	1
3	SVC	SV FLOAT COLLAR	1.16	46.64	12,078.36	
4	BSS	SOLID BALL SEAT SUB - 1.250" BALL	1.32	47.96	12,077.04	
5	PUP	PUP 4.5" 11.6# P-110 LTC	2.06	50.02	12,074.98	
6	S1	P Sleeve	2.72	52.74	12,072.26	
7	S2	2.000" FRAC-SLEEVE	2.40	55.14	12,069.86	
8	PUP	PUP 4.5" 11.6# P-110 LTC	6.06	61.20	12,063.80	
9	2	JT 4.5" 11.6# LTC	42.81	104.01	12,020.99	1
10	3	JT 4.5" 11.6# LTC	42.76	146.77	11,978.23	2
11	4	JT 4.5" 11.6# LTC	42.33	189.10	11,935.90	3
12	X	PUP 4.5" 11.6# P-110 LTC	2.41	191.51	11,933.49	
13	P1	RE PACKER #1	7.67	199.18	11,925.82	CENTER OF PACKER: 11,929.65
14	X	PUP 4.5" 11.6# P-110 LTC	4.15	203.33	11,921.67	
15	5	JT 4.5" 11.6# LTC	42.68	246.01	11,878.99	1
16	6	JT 4.5" 11.6# LTC	42.72	288.73	11,836.27	2
17	S3	2.063" FRAC-SLEEVE	2.41	291.14	11,833.86	
18	7	JT 4.5" 11.6# LTC	42.80	333.94	11,791.06	1
19	8	JT 4.5" 11.6# LTC	42.86	376.80	11,748.20	2
20	X	PUP 4.5" 11.6# P-110 LTC	2.42	379.22	11,745.78	
21	P2	RE PACKER #2	7.66	386.88	11,738.12	CENTER OF PACKER: 11,741.94
22	X	PUP 4.5" 11.6# P-110 LTC	4.14	391.02	11,733.98	
23	9	JT 4.5" 11.6# LTC	42.79	433.81	11,691.19	1
24	10	JT 4.5" 11.6# LTC	42.63	476.44	11,648.56	2
25	S4	2.125" FRAC-SLEEVE	2.41	478.85	11,646.15	
26	11	JT 4.5" 11.6# LTC	41.25	520.10	11,604.90	1
27	12	JT 4.5" 11.6# LTC	42.71	562.81	11,562.19	2
28	13	JT 4.5" 11.6# LTC	42.63	605.44	11,519.56	3
29	X	PUP 4.5" 11.6# P-110 LTC	2.43	607.87	11,517.13	
30	P3	RE PACKER #3	7.68	615.55	11,509.45	CENTER OF PACKER: 11,513.28
31	X	PUP 4.5" 11.6# P-110 LTC	4.13	619.68	11,505.32	
32	14	JT 4.5" 11.6# LTC	42.62	662.30	11,462.70	1
33	15	JT 4.5" 11.6# LTC	42.69	704.99	11,420.01	2
34	S5	2.188" FRAC-SLEEVE	2.41	707.40	11,417.60	
35	16	JT 4.5" 11.6# LTC	42.68	750.08	11,374.92	1
36	17	JT 4.5" 11.6# LTC	42.41	792.49	11,332.51	2
37	18	JT 4.5" 11.6# LTC	42.64	835.13	11,289.87	3
38	X	PUP 4.5" 11.6# P-110 LTC	2.40	837.53	11,287.47	
39	P4	RE PACKER #4	7.69	845.22	11,279.78	CENTER OF PACKER: 11,283.62
40	X	PUP 4.5" 11.6# P-110 LTC	4.12	849.34	11,275.66	
41	19	JT 4.5" 11.6# LTC	42.64	891.98	11,233.02	1
42	20	JT 4.5" 11.6# LTC	42.75	934.73	11,190.27	2
43	S6	2.250" FRAC-SLEEVE	2.41	937.14	11,187.86	
44	21	JT 4.5" 11.6# LTC	42.65	979.79	11,145.21	1
45	22	JT 4.5" 11.6# LTC	42.40	1,022.19	11,102.81	2
46	23	JT 4.5" 11.6# LTC	42.85	1,065.04	11,059.96	3
47	X	PUP 4.5" 11.6# P-110 LTC	2.42	1,067.46	11,057.54	
48	P5	REPACKER #5	7.67	1,075.13	11,049.87	CENTER OF PACKER: 11,053.70
49	X	PUP 4.5" 11.6# P-110 LTC	4.13	1,079.26	11,045.74	
50	24	JT 4.5" 11.6# LTC	42.81	1,122.07	11,002.93	1
51	25	JT 4.5" 11.6# LTC	42.96	1,165.03	10,959.97	2
52	S7	2.313" FRAC-SLEEVE	2.41	1,167.44	10,957.56	
53	26	JT 4.5" 11.6# LTC	42.33	1,209.77	10,915.23	1
54	27	JT 4.5" 11.6# LTC	42.72	1,252.49	10,872.51	2



Baker Oil Tools

Final Tally

CUSTOMER	Bill Barrett
WELL NAME	State of CO N 1S-66-36-0108CH
DATE	3/5/2014
SERVICE REP	John Stranahan/Jeremy Richenbauch

			OPENHOLE TD		12,135.00	COMMENTS:
Item #	Joint #	DESCRIPTION:	LENGTH:	ACC. LENGTH	DEPTH 12,125.00	
55	28	JT 4.5" 11.6# LTC	42.59	1,295.08	10,829.92	3
56	X	PUP 4.5" 11.6# P-110 LTC	2.41	1,297.49	10,827.51	CENTER OF PACKER: 10,823.66
57	P6	RE PACKER #6	7.68	1,305.17	10,819.83	
58	X	PUP 4.5" 11.6# P-110 LTC	4.11	1,309.28	10,815.72	
59	29	JT 4.5" 11.6# LTC	43.04	1,352.32	10,772.68	1
60	30	JT 4.5" 11.6# LTC	42.67	1,394.99	10,730.01	2
61	S8	2.375" FRAC-SLEEVE	2.41	1,397.40	10,727.60	
62	31	JT 4.5" 11.6# LTC	42.60	1,440.00	10,685.00	1
63	32	JT 4.5" 11.6# LTC	42.46	1,482.46	10,642.54	2
64	33	JT 4.5" 11.6# LTC	42.81	1,525.27	10,599.73	3
65	X	PUP 4.5" 11.6# P-110 LTC	2.40	1,527.67	10,597.33	CENTER OF PACKER: 10,593.49
66	P7	RE PACKER #7	7.67	1,535.34	10,589.66	
67	X	PUP 4.5" 11.6# P-110 LTC	4.15	1,539.49	10,585.51	
68	34	JT 4.5" 11.6# LTC	42.68	1,582.17	10,542.83	1
69	35	JT 4.5" 11.6# LTC	42.58	1,624.75	10,500.25	2
70	S9	2.438" FRAC-SLEEVE	2.41	1,627.16	10,497.84	
71	36	JT 4.5" 11.6# LTC	41.72	1,668.88	10,456.12	1
72	37	JT 4.5" 11.6# LTC	39.63	1,708.51	10,416.49	2
73	38	JT 4.5" 11.6# LTC	42.60	1,751.11	10,373.89	3
74	X	PUP 4.5" 11.6# P-110 LTC	2.40	1,753.51	10,371.49	CENTER OF PACKER: 10,367.65
75	P8	RE PACKER #8	7.67	1,761.18	10,363.82	
76	X	PUP 4.5" 11.6# P-110 LTC	4.15	1,765.33	10,359.67	
77	39	JT 4.5" 11.6# LTC	43.03	1,808.36	10,316.64	1
78	40	JT 4.5" 11.6# LTC	41.16	1,849.52	10,275.48	2
79	S10	2.500" FRAC-SLEEVE	2.41	1,851.93	10,273.07	
80	41	JT 4.5" 11.6# LTC	42.95	1,894.88	10,230.12	1
81	42	JT 4.5" 11.6# LTC	42.52	1,937.40	10,187.60	2
82	43	JT 4.5" 11.6# LTC	42.51	1,979.91	10,145.09	3
83	X	PUP 4.5" 11.6# P-110 LTC	2.44	1,982.35	10,142.65	CENTER OF PACKER: 10,138.82
84	P9	RE PACKER #9	7.64	1,989.99	10,135.01	
85	X	PUP 4.5" 11.6# P-110 LTC	4.15	1,994.14	10,130.86	
86	44	JT 4.5" 11.6# LTC	42.55	2,036.69	10,088.31	1
87	45	JT 4.5" 11.6# LTC	42.73	2,079.42	10,045.58	2
88	S11	2.625" FRAC-SLEEVE	2.41	2,081.83	10,043.17	
89	46	JT 4.5" 11.6# LTC	42.85	2,124.68	10,000.32	1
90	47	JT 4.5" 11.6# LTC	42.74	2,167.42	9,957.58	2
91	48	JT 4.5" 11.6# LTC	42.68	2,210.10	9,914.90	3
92	X	PUP 4.5" 11.6# P-110 LTC	2.41	2,212.51	9,912.49	CENTER OF PACKER: 9,908.65
93	P10	RE PACKER #10	7.67	2,220.18	9,904.82	
94	X	PUP 4.5" 11.6# P-110 LTC	4.15	2,224.33	9,900.67	
95	49	JT 4.5" 11.6# LTC	42.86	2,267.19	9,857.81	1
96	50	JT 4.5" 11.6# LTC	42.72	2,309.91	9,815.09	2
97	S12	2.750" FRAC-SLEEVE	2.41	2,312.32	9,812.68	
98	51	JT 4.5" 11.6# LTC	42.54	2,354.86	9,770.14	1
99	52	JT 4.5" 11.6# LTC	42.88	2,397.74	9,727.26	2
100	53	JT 4.5" 11.6# LTC	42.85	2,440.59	9,684.41	3
101	X	PUP 4.5" 11.6# P-110 LTC	2.41	2,443.00	9,682.00	CENTER OF PACKER: 9,678.15
102	P11	RE PACKER #11	7.68	2,450.68	9,674.32	
103	X	PUP 4.5" 11.6# P-110 LTC	4.14	2,454.82	9,670.18	
104	54	JT 4.5" 11.6# LTC	42.57	2,497.39	9,627.61	1
105	55	JT 4.5" 11.6# LTC	42.40	2,539.79	9,585.21	2
106	S13	2.875" FRAC-SLEEVE	2.41	2,542.20	9,582.80	
107	56	JT 4.5" 11.6# LTC	42.62	2,584.82	9,540.18	1
108	57	JT 4.5" 11.6# LTC	42.71	2,627.53	9,497.47	2



Baker Oil Tools

Final Tally

CUSTOMER	Bill Barrett
WELL NAME	State of CO N 1S-66-36-0108CH
DATE	3/5/2014
SERVICE REP	John Stranahan/Jeremy Richenbauch

			OPENHOLE TD		12,135.00	COMMENTS:
Item #	Joint #	DESCRIPTION:	LENGTH:	ACC. LENGTH	DEPTH 12,125.00	
109	58	JT 4.5" 11.6# LTC	42.74	2,670.27	9,454.73	3
110	X	PUP 4.5" 11.6# P-110 LTC	2.40	2,672.67	9,452.33	CENTER OF PACKER: 9,448.49
111	P12	RE PACKER #12	7.67	2,680.34	9,444.66	
112	X	PUP 4.5" 11.6# P-110 LTC	4.16	2,684.50	9,440.50	
113	59	JT 4.5" 11.6# LTC	42.44	2,726.94	9,398.06	1
114	60	JT 4.5" 11.6# LTC	41.68	2,768.62	9,356.38	2
115	S14	3.000" FRAC-SLEEVE	2.41	2,771.03	9,353.97	
116	61	JT 4.5" 11.6# LTC	42.71	2,813.74	9,311.26	1
117	62	JT 4.5" 11.6# LTC	42.77	2,856.51	9,268.49	2
118	63	JT 4.5" 11.6# LTC	42.35	2,898.86	9,226.14	3
119	X	PUP 4.5" 11.6# P-110 LTC	2.41	2,901.27	9,223.73	CENTER OF PACKER: 9,219.88
120	P13	RE PACKER #13	7.68	2,908.95	9,216.05	
121	X	PUP 4.5" 11.6# P-110 LTC	4.14	2,913.09	9,211.91	
122	64	JT 4.5" 11.6# LTC	42.89	2,955.98	9,169.02	1
123	65	JT 4.5" 11.6# LTC	42.76	2,998.74	9,126.26	2
124	S15	3.125" FRAC-SLEEVE	2.41	3,001.15	9,123.85	
125	66	JT 4.5" 11.6# LTC	42.24	3,043.39	9,081.61	1
126	67	JT 4.5" 11.6# LTC	42.63	3,086.02	9,038.98	2
127	68	JT 4.5" 11.6# LTC	42.71	3,128.73	8,996.27	3
128	X	PUP 4.5" 11.6# P-110 LTC	2.39	3,131.12	8,993.88	CENTER OF PACKER: 8,990.03
129	P14	RE PACKER #14	7.68	3,138.80	8,986.20	
130	X	PUP 4.5" 11.6# P-110 LTC	4.17	3,142.97	8,982.03	
131	69	JT 4.5" 11.6# LTC	42.75	3,185.72	8,939.28	1
132	70	JT 4.5" 11.6# LTC	42.75	3,228.47	8,896.53	2
133	S16	3.250" FRAC-SLEEVE	2.41	3,230.88	8,894.12	
134	71	JT 4.5" 11.6# LTC	42.65	3,273.53	8,851.47	1
135	72	JT 4.5" 11.6# LTC	42.62	3,316.15	8,808.85	2
136	73	JT 4.5" 11.6# LTC	42.51	3,358.66	8,766.34	3
137	X	PUP 4.5" 11.6# P-110 LTC	2.39	3,361.05	8,763.95	CENTER OF PACKER: 8,760.10
138	P15	RE PACKER #15	7.69	3,368.74	8,756.26	
139	X	PUP 4.5" 11.6# P-110 LTC	4.15	3,372.89	8,752.11	
140	74	JT 4.5" 11.6# LTC	42.80	3,415.69	8,709.31	1
141	75	JT 4.5" 11.6# LTC	42.75	3,458.44	8,666.56	2
142	S17	3.375" FRAC-SLEEVE	2.41	3,460.85	8,664.15	
143	76	JT 4.5" 11.6# LTC	42.81	3,503.66	8,621.34	1
144	77	JT 4.5" 11.6# LTC	42.68	3,546.34	8,578.66	2
145	78	JT 4.5" 11.6# LTC	42.76	3,589.10	8,535.90	3
146	X	PUP 4.5" 11.6# P-110 LTC	2.41	3,591.51	8,533.49	CENTER OF PACKER: 8,529.66
147	P16	RE PACKER #16	7.65	3,599.16	8,525.84	
148	X	PUP 4.5" 11.6# P-110 LTC	4.16	3,603.32	8,521.68	
149	79	JT 4.5" 11.6# LTC	42.72	3,646.04	8,478.96	1
150	80	JT 4.5" 11.6# LTC	42.69	3,688.73	8,436.27	2
151	81	JT 4.5" 11.6# LTC	41.94	3,730.67	8,394.33	3
152	S18	3.500" FRAC-SLEEVE	2.41	3,733.08	8,391.92	
153	82	JT 4.5" 11.6# LTC	42.79	3,775.87	8,349.13	1
154	83	JT 4.5" 11.6# LTC	42.75	3,818.62	8,306.38	2
155	84	JT 4.5" 11.6# LTC	40.14	3,858.76	8,266.24	3
156	X	PUP 4.5" 11.6# P-110 LTC	2.40	3,861.16	8,263.84	CENTER OF PACKER: 8,260.00
157	P17	RE PACKER #17	7.66	3,868.82	8,256.18	
158	X	PUP 4.5" 11.6# P-110 LTC	4.17	3,872.99	8,252.01	
159	85	JT 4.5" 11.6# LTC	42.25	3,915.24	8,209.76	1
160	86	JT 4.5" 11.6# LTC	42.29	3,957.53	8,167.47	2
161	87	JT 4.5" 11.6# LTC	41.34	3,998.87	8,126.13	3
162	S19	3.625" FRAC-SLEEVE	2.41	4,001.28	8,123.72	



Baker Oil Tools

Final Tally

CUSTOMER	Bill Barrett
WELL NAME	State of CO N 1S-66-36-0108CH
DATE	3/5/2014
SERVICE REP	John Stranahan/Jeremy Richenbauch

			OPENHOLE TD		12,135.00	
Item #	Joint #	DESCRIPTION:	LENGTH:	ACC. LENGTH	DEPTH	COMMENTS:
					12,125.00	
163	88	JT 4.5" 11.6# LTC	42.92	4,044.20	8,080.80	1
164	89	JT 4.5" 11.6# LTC	42.73	4,086.93	8,038.07	2
165	90	JT 4.5" 11.6# LTC	42.88	4,129.81	7,995.19	3
166	X	PUP 4.5" 11.6# P-110 LTC	2.40	4,132.21	7,992.79	
167	P18	RE PACKER #18	7.67	4,139.88	7,985.12	CENTER OF PACKER: 7,988.95
168	X	PUP 4.5" 11.6# P-110 LTC	4.16	4,144.04	7,980.96	
169	91	JT 4.5" 11.6# LTC	42.65	4,186.69	7,938.31	1
170	92	JT 4.5" 11.6# LTC	42.98	4,229.67	7,895.33	2 7914' 7IN SHOE
171	93	JT 4.5" 11.6# LTC	42.41	4,272.08	7,852.92	3
172	X	PUP 4.5" 11.6# P-110 LTC	2.41	4,274.49	7,850.51	
173	P19	RE PACKER #19	7.66	4,282.15	7,842.85	CENTER OF PACKER: 7,846.67
174	X	PUP 4.5" 11.6# P-110 LTC	4.16	4,286.31	7,838.69	
175	94	JT 4.5" 11.6# LTC	42.66	4,328.97	7,796.03	1
176	95	JT 4.5" 11.6# LTC	42.74	4,371.71	7,753.29	2
177	96	JT 4.5" 11.6# LTC	42.84	4,414.55	7,710.45	3
178	97	JT 4.5" 11.6# LTC	42.85	4,457.40	7,667.60	4
179	98	JT 4.5" 11.6# LTC	42.48	4,499.88	7,625.12	5
180	99	JT 4.5" 11.6# LTC	42.71	4,542.59	7,582.41	6
181	100	JT 4.5" 11.6# LTC	42.63	4,585.22	7,539.78	7
182	101	JT 4.5" 11.6# LTC	42.88	4,628.10	7,496.90	8
183	102	JT 4.5" 11.6# LTC	42.41	4,670.51	7,454.49	9
184	103	JT 4.5" 11.6# LTC	42.70	4,713.21	7,411.79	10
185	104	JT 4.5" 11.6# LTC	42.69	4,755.90	7,369.10	11
186	105	JT 4.5" 11.6# LTC	42.62	4,798.52	7,326.48	12
187	106	JT 4.5" 11.6# LTC	42.58	4,841.10	7,283.90	13
188	107	JT 4.5" 11.6# LTC	42.56	4,883.66	7,241.34	14-7220' KOP
189	108	JT 4.5" 11.6# LTC	42.47	4,926.13	7,198.87	15
190	109	JT 4.5" 11.6# LTC	42.89	4,969.02	7,155.98	16
191	110	JT 4.5" 11.6# LTC	40.41	5,009.43	7,115.57	17
192	PUP	4.5" 11.6# PUP LTC	5.50	5,014.93	7,110.07	
193	XOVER	LOWER PBR XOVER	2.00	5,016.93	7,108.07	
194	S3	S-3 CASING PACKER	4.63	5,021.56	7,103.44	
195	RC	RC SETTING SLEEVE	4.00	5,025.56	7,099.44	LINER TOP 121' OVER KOP
196	S/U	DP STICKUP - 3-1/2 IF	10.48	5,036.04	7,088.96	
197	B/S	BUMPER SUB	15.53	5,051.57	7,073.43	
198	x	XT-39 28# HWDP	30.9	5,082.47	7,042.53	
199	xx	XT-39 28# HWDP	29.89	5,112.36	7,012.64	
200	1	XT-39 28# HWDP	30.98	5,143.34	6,981.66	
201	x	XT-39 28# HWDP	29.77	5,173.11	6,951.89	
202	xx	XT-39 28# HWDP	31.31	5,204.42	6,920.58	
203	2	XT-39 28# HWDP	30.95	5,235.37	6,889.63	
204	x	XT-39 28# HWDP	31.28	5,266.65	6,858.35	
205	xx	XT-39 28# HWDP	31.23	5,297.88	6,827.12	
206	3	XT-39 28# HWDP	30.39	5,328.27	6,796.73	
207	x	XT-39 28# HWDP	31.32	5,359.59	6,765.41	
208	xx	XT-39 28# HWDP	30.77	5,390.36	6,734.64	
209	4	XT-39 28# HWDP	31.08	5,421.44	6,703.56	
210	x	XT-39 28# HWDP	31.29	5,452.73	6,672.27	
211	xx	XT-39 28# HWDP	29.71	5,482.44	6,642.56	
212	5	XT-39 28# HWDP	31.35	5,513.79	6,611.21	
213	x	XT-39 28# HWDP	30.67	5,544.46	6,580.54	
214	xx	XT-39 28# HWDP	30.7	5,575.16	6,549.84	
215	6	XT-39 28# HWDP	31.18	5,606.34	6,518.66	
216	x	XT-39 28# HWDP	30.35	5,636.69	6,488.31	



Baker Oil Tools

Final Tally

CUSTOMER	Bill Barrett
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DATE	3/5/2014
SERVICE REP	John Stranahan/Jeremy Richenbauch

			OPENHOLE TD		12,135.00	COMMENTS:
Item #	Joint #	DESCRIPTION:	LENGTH:	ACC. LENGTH	DEPTH 12,125.00	
217	xx	XT-39 28# HWDP	30.76	5,667.45	6,457.55	
218	7	XT-39 28# HWDP	31.31	5,698.76	6,426.24	
219	x	XT-39 28# HWDP	30.17	5,728.93	6,396.07	
220	xx	XT-39 28# HWDP	30.56	5,759.49	6,365.51	
221	8	XT-39 28# HWDP	30.68	5,790.17	6,334.83	
222	x	XT-39 28# HWDP	30.67	5,820.84	6,304.16	
223	xx	XT-39 28# HWDP	31.24	5,852.08	6,272.92	
224	9	XT-39 28# HWDP	30.68	5,882.76	6,242.24	
225	x	XT-39 28# HWDP	31.18	5,913.94	6,211.06	
226	xx	XT-39 28# HWDP	30.87	5,944.81	6,180.19	
227	10	XT-39 28# HWDP	30.66	5,975.47	6,149.53	
228	x	XT-39 28# HWDP	30.69	6,006.16	6,118.84	
229	xx	XT-39 28# HWDP	30.39	6,036.55	6,088.45	
230	11	XT-39 28# HWDP	31.28	6,067.83	6,057.17	
231	x	XT-39 28# HWDP	31.31	6,099.14	6,025.86	
232	xx	XT-39 28# HWDP	30.64	6,129.78	5,995.22	
233	12	XT-39 28# HWDP	30.65	6,160.43	5,964.57	
234	x	XT-39 28# HWDP	31.34	6,191.77	5,933.23	
235	xx	XT-39 28# HWDP	30.71	6,222.48	5,902.52	
236	13	XT-39 28# HWDP	31.05	6,253.53	5,871.47	
237	x	XT-39 28# HWDP	31.34	6,284.87	5,840.13	
238	xx	XT-39 28# HWDP	30.48	6,315.35	5,809.65	
239	14	XT-39 28# HWDP	30.67	6,346.02	5,778.98	
240	x	XT-39 28# HWDP	31.16	6,377.18	5,747.82	
241	xx	XT-39 28# HWDP	31.22	6,408.40	5,716.60	
242	15	XT-39 28# HWDP	31.27	6,439.67	5,685.33	
243	x	XT-39 14# DP	31.84	6,471.51	5,653.49	
244	xx	XT-39 14# DP	31.88	6,503.39	5,621.61	
245	1	XT-39 14# DP	31.74	6,535.13	5,589.87	
246	x	XT-39 14# DP	31.83	6,566.96	5,558.04	
247	xx	XT-39 14# DP	32.2	6,599.16	5,525.84	
248	2	XT-39 14# DP	31.32	6,630.48	5,494.52	
249	x	XT-39 14# DP	32.02	6,662.50	5,462.50	
250	xx	XT-39 14# DP	30.19	6,692.69	5,432.31	
251	3	XT-39 14# DP	32.18	6,724.87	5,400.13	
252	x	XT-39 14# DP	31.76	6,756.63	5,368.37	
253	xx	XT-39 14# DP	31.54	6,788.17	5,336.83	
254	4	XT-39 14# DP	32.12	6,820.29	5,304.71	
255	x	XT-39 14# DP	32.07	6,852.36	5,272.64	
256	xx	XT-39 14# DP	31.4	6,883.76	5,241.24	
257	5	XT-39 14# DP	31.55	6,915.31	5,209.69	
258	x	XT-39 14# DP	32.32	6,947.63	5,177.37	
259	xx	XT-39 14# DP	32.1	6,979.73	5,145.27	
260	6	XT-39 14# DP	31.88	7,011.61	5,113.39	
261	x	XT-39 14# DP	32.37	7,043.98	5,081.02	
262	xx	XT-39 14# DP	31.57	7,075.55	5,049.45	
263	7	XT-39 14# DP	32.29	7,107.84	5,017.16	
264	x	XT-39 14# DP	31.5	7,139.34	4,985.66	
265	xx	XT-39 14# DP	31.38	7,170.72	4,954.28	
266	8	XT-39 14# DP	31.76	7,202.48	4,922.52	
267	x	XT-39 14# DP	31.84	7,234.32	4,890.68	
268	xx	XT-39 14# DP	32.07	7,266.39	4,858.61	
269	9	XT-39 14# DP	31.9	7,298.29	4,826.71	
270	x	XT-39 14# DP	32.62	7,330.91	4,794.09	



Baker Oil Tools

Final Tally

CUSTOMER	Bill Barrett
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DATE	3/5/2014
SERVICE REP	John Stranahan/Jeremy Richenbauch

			OPENHOLE TD		12,135.00	COMMENTS:
Item #	Joint #	DESCRIPTION:	LENGTH:	ACC. LENGTH	DEPTH 12,125.00	
271	xx	XT-39 14# DP	31.85	7,362.76	4,762.24	
272	10	XT-39 14# DP	31.79	7,394.55	4,730.45	
273	x	XT-39 14# DP	32.63	7,427.18	4,697.82	
274	xx	XT-39 14# DP	31.81	7,458.99	4,666.01	
275	11	XT-39 14# DP	31.82	7,490.81	4,634.19	
276	x	XT-39 14# DP	31.76	7,522.57	4,602.43	
277	xx	XT-39 14# DP	32.04	7,554.61	4,570.39	
278	12	XT-39 14# DP	32.25	7,586.86	4,538.14	
279	x	XT-39 14# DP	31.84	7,618.70	4,506.30	
280	xx	XT-39 14# DP	32.36	7,651.06	4,473.94	
281	13	XT-39 14# DP	31.82	7,682.88	4,442.12	
282	x	XT-39 14# DP	31.38	7,714.26	4,410.74	
283	xx	XT-39 14# DP	31.67	7,745.93	4,379.07	
284	14	XT-39 14# DP	31.81	7,777.74	4,347.26	
285	x	XT-39 14# DP	31.83	7,809.57	4,315.43	
286	xx	XT-39 14# DP	32.21	7,841.78	4,283.22	
287	15	XT-39 14# DP	31.78	7,873.56	4,251.44	
288	x	XT-39 14# DP	31.85	7,905.41	4,219.59	
289	xx	XT-39 14# DP	32.25	7,937.66	4,187.34	
290	16	XT-39 14# DP	31.7	7,969.36	4,155.64	
291	x	XT-39 14# DP	31.39	8,000.75	4,124.25	
292	xx	XT-39 14# DP	32.13	8,032.88	4,092.12	
293	17	XT-39 14# DP	31.75	8,064.63	4,060.37	
294	x	XT-39 14# DP	31.78	8,096.41	4,028.59	
295	xx	XT-39 14# DP	32.36	8,128.77	3,996.23	
296	18	XT-39 14# DP	31.57	8,160.34	3,964.66	
297	x	XT-39 14# DP	32.25	8,192.59	3,932.41	
298	xx	XT-39 14# DP	31.69	8,224.28	3,900.72	
299	19	XT-39 14# DP	31.92	8,256.20	3,868.80	
300	x	XT-39 14# DP	31.54	8,287.74	3,837.26	
301	xx	XT-39 14# DP	32.24	8,319.98	3,805.02	
302	20	XT-39 14# DP	31.96	8,351.94	3,773.06	
303	x	XT-39 14# DP	31.76	8,383.70	3,741.30	
304	xx	XT-39 14# DP	31.68	8,415.38	3,709.62	
305	21	XT-39 14# DP	31.79	8,447.17	3,677.83	
306	x	XT-39 14# DP	31.54	8,478.71	3,646.29	
307	xx	XT-39 14# DP	31.9	8,510.61	3,614.39	
308	22	XT-39 14# DP	32.14	8,542.75	3,582.25	
309	x	XT-39 14# DP	32.51	8,575.26	3,549.74	
310	xx	XT-39 14# DP	31.89	8,607.15	3,517.85	
311	23	XT-39 14# DP	31.63	8,638.78	3,486.22	
312	x	XT-39 14# DP	31.62	8,670.40	3,454.60	
313	xx	XT-39 14# DP	31.88	8,702.28	3,422.72	
314	24	XT-39 14# DP	31.97	8,734.25	3,390.75	
315	x	XT-39 14# DP	31.98	8,766.23	3,358.77	
316	xx	XT-39 14# DP	32.19	8,798.42	3,326.58	
317	25	XT-39 14# DP	31.82	8,830.24	3,294.76	
318	x	XT-39 14# DP	32.44	8,862.68	3,262.32	
319	xx	XT-39 14# DP	32.28	8,894.96	3,230.04	
320	26	XT-39 14# DP	31.85	8,926.81	3,198.19	
321	x	XT-39 14# DP	32.28	8,959.09	3,165.91	
322	xx	XT-39 14# DP	32.42	8,991.51	3,133.49	
323	27	XT-39 14# DP	31.71	9,023.22	3,101.78	
324	x	XT-39 14# DP	31.84	9,055.06	3,069.94	



Baker Oil Tools

Final Tally

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DATE	3/5/2014
SERVICE REP	John Stranahan/Jeremy Richenbauch

			OPENHOLE TD		12,135.00	COMMENTS:
Item #	Joint #	DESCRIPTION:	LENGTH:	ACC. LENGTH	DEPTH 12,125.00	
325	xx	XT-39 14# DP	32.55	9,087.61	3,037.39	
326	28	XT-39 14# DP	32.53	9,120.14	3,004.86	
327	x	XT-39 14# DP	31.48	9,151.62	2,973.38	
328	xx	XT-39 14# DP	31.81	9,183.43	2,941.57	
329	29	XT-39 14# DP	32.16	9,215.59	2,909.41	
330	x	XT-39 14# DP	32.16	9,247.75	2,877.25	
331	xx	XT-39 14# DP	31.56	9,279.31	2,845.69	
332	30	XT-39 14# DP	31.67	9,310.98	2,814.02	
333	x	XT-39 14# DP	31.83	9,342.81	2,782.19	
334	xx	XT-39 14# DP	31.72	9,374.53	2,750.47	
335	31	XT-39 14# DP	32.35	9,406.88	2,718.12	
336	x	XT-39 14# DP	31.89	9,438.77	2,686.23	
337	xx	XT-39 14# DP	32.18	9,470.95	2,654.05	
338	32	XT-39 14# DP	31.55	9,502.50	2,622.50	
339	x	XT-39 14# DP	31.92	9,534.42	2,590.58	
340	xx	XT-39 14# DP	32.36	9,566.78	2,558.22	
341	33	XT-39 14# DP	31.96	9,598.74	2,526.26	
342	x	XT-39 14# DP	31.78	9,630.52	2,494.48	
343	xx	XT-39 14# DP	32.19	9,662.71	2,462.29	
344	34	XT-39 14# DP	31.79	9,694.50	2,430.50	
345	x	XT-39 14# DP	32.37	9,726.87	2,398.13	
346	xx	XT-39 14# DP	32.21	9,759.08	2,365.92	
347	35	XT-39 14# DP	32.6	9,791.68	2,333.32	
348	x	XT-39 14# DP	32.65	9,824.33	2,300.67	
349	xx	XT-39 14# DP	31.67	9,856.00	2,269.00	
350	36	XT-39 14# DP	31.9	9,887.90	2,237.10	
351	x	XT-39 14# DP	31.71	9,919.61	2,205.39	
352	xx	XT-39 14# DP	32.04	9,951.65	2,173.35	
353	37	XT-39 14# DP	32.02	9,983.67	2,141.33	
354	x	XT-39 14# DP	32.07	10,015.74	2,109.26	
355	xx	XT-39 14# DP	31.89	10,047.63	2,077.37	
356	38	XT-39 14# DP	32.62	10,080.25	2,044.75	
357	x	XT-39 14# DP	32.27	10,112.52	2,012.48	
358	xx	XT-39 14# DP	32.45	10,144.97	1,980.03	
359	39	XT-39 14# DP	31.62	10,176.59	1,948.41	
360	x	XT-39 14# DP	32.01	10,208.60	1,916.40	
361	xx	XT-39 14# DP	32.03	10,240.63	1,884.37	
362	40	XT-39 14# DP	31.92	10,272.55	1,852.45	
363	x	XT-39 14# DP	31.05	10,303.60	1,821.40	
364	xx	XT-39 14# DP	31.56	10,335.16	1,789.84	
365	41	XT-39 14# DP	31.69	10,366.85	1,758.15	
366	x	XT-39 14# DP	32.17	10,399.02	1,725.98	
367	xx	XT-39 14# DP	32.18	10,431.20	1,693.80	
368	42	XT-39 14# DP	31.98	10,463.18	1,661.82	
369	x	XT-39 14# DP	32.6	10,495.78	1,629.22	
370	xx	XT-39 14# DP	31.73	10,527.51	1,597.49	
371	43	XT-39 14# DP	32.65	10,560.16	1,564.84	
372	x	XT-39 14# DP	31.86	10,592.02	1,532.98	
373	xx	XT-39 14# DP	31.58	10,623.60	1,501.40	
374	44	XT-39 14# DP	31.87	10,655.47	1,469.53	
375	x	XT-39 14# DP	31.89	10,687.36	1,437.64	
376	xx	XT-39 14# DP	32.42	10,719.78	1,405.22	
377	45	XT-39 14# DP	32.5	10,752.28	1,372.72	
378	x	XT-39 14# DP	32.63	10,784.91	1,340.09	



Final Tally

CUSTOMER	Bill Barrett
WELL NAME	State of CO N 1S-66-36-0108CH
DATE	3/5/2014
SERVICE REP	John Stranahan/Jeremy Richenbauch



JOB LOG

Total Operation Hours
48

Page 1 of 2Date: March 5, 2014Operating Company: Bill Barrett Represented by: CurtisWell Name & Number: CO N1s-66-36-0108CH Lease: Colorado Field: Wildcat State: COSST# 6190041 BOT Rep: John Stranahan Region/District Casper, Wyo

DETAIL THE JOB - THIS FORM USED TO REPORT WHAT ACTUALLY TOOK PLACE - FILL OUT COMPLETELY		
Date	Time	Operations & Remarks
3/5/14	8:25	Left for location.
	8:50	Arrived at location.
	9:00	Checked in with company man.
	9:25	Tools off loaded at location.
	11:15	Pipe tally sent to BB Engineer
	14:32	Second pipe tally sent to Engineer
	16:32	Second pipe tally approved.
3/6/14	18:02	Screwed frac sleeves onto correct joints. Rig tripping back in hole after mudmotor failure.
	22:00	Rig TD well doing short trip, then tripping out of hole.
	4:45	CSG crew rigging up at location.
	5:18	Safety meeting with Baker Crew, CSG crew, Rig Crew.
	5:40	Float shoe in hole, tested equipment for flow, flow good.
	6:50	Filling on joint 20, 30STKS breakover at 253psi.
	10:00	OD/ID of elevators. S3 in hole.
	10:34	Pumping through hanger 30STKS breakover at 446psi.
	10:45	P/U 80K, S/D 75K
	12:18	Filling at shoe 30STKS breakover @ 642psi. P/U 200-S/D80
	14:25	Filling on last joint of drill pipe 30STKS 775psi.
	14:45	Tagged bottom and pulled up to setting depth.
	14:50	Started pumped 80bbbls of diesel @802stks.
	15:30	Dropped 1.250' ball, Started pumping 149bbbls, of KCL/Water.
	16:27	Ball seated at 1343STKS, hit 13bbbls early.
	16:28	Brought psi up to 2800 to set S3 packer. Held for 2mins bleeding pressure to 700psi.
	16:30	Set up for Push Pull test S/D50K/60K, P/U50K/60K
	16:35	Lined up for pressure test on backside, prssure test to 2518 for 15 mins, 1st 6psi(Good Test)
	17:03	Hanger Set and tested, S/D 10K from 110K, did 5x5x5x5 RHR turns torque 1300.

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: _____

JOURNEY MANAGEMENT LOG (FOR INTERNAL BHI USE ONLY)

*This is mandatory for all outbound or inbound trips including from one location to another. At the time of call in you may ask for the call ID number before hanging up or this number can be found in the confirmation text message sent immediately after calling in.

*Date	*Time	*Call/Text ID #	NOTE	*Date	*Time	*Call/Text ID #	NOTE
3/5/14	8:00	255380	John-Call				
3/6/14	21:00	255380	John-Call				