

Bullion BRL State #1H

30-015-39302

Contingency Casing Design

If hole conditions dictate, 7" casing will be set at 8,000' MD (7,650' TVD). A 6 1/8" hole will then be drilled to 12,115' MD (7,650' TVD) where 4 1/2" casing will be set and cemented with one stage up to dv tool. After completion procedures, the 4 1/2" casing will be cut and pulled at 7100'

2nd Intermediate

0 ft to 100 ft				Make up Torque ft-lbs			Total ft =
O.D.	Weight	Grade	Threads	opt.	min.	mx.	
7 inches	26 #/ft	J-55	LT&C	3670	2750	4590	
Collapse Resistance	Internal Yield	Joint Strength		Body Yield		Drift	
4,320 psi	4,980 psi	367,000 #		415,000 #		6.151	

100 ft to 5,800 ft				Make up Torque ft-lbs			Total ft =
O.D.	Weight	Grade	Threads	opt.	min.	mx.	
7 inches	23 #/ft	J-55	LT&C	3130	2350	3910	
Collapse Resistance	Internal Yield	Joint Strength		Body Yield		Drift	
3,270 psi	4,360 psi	313,000 #		366,000 #		6.25	

5,800 ft to 8,000 ft				Make up Torque ft-lbs			Total ft =
O.D.	Weight	Grade	Threads	opt.	min.	mx.	
7 inches	26 #/ft	J-55	LT&C	3670	2750	4590	
Collapse Resistance	Internal Yield	Joint Strength		Body Yield		Drift	
4,320 psi	4,980 psi	367,000 #		415,000 #		6.151	

DV tool placed at approx. 5500'

Stage I: Cemented w/535sx PVL (YLD 1.41 Wt 13) TOC= 5500'

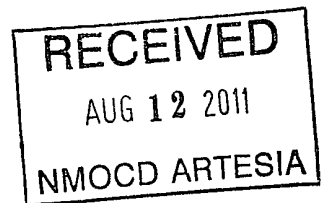
Stage II: Cemented w/250sx Lite Crete (YLD 2 66 Wt 9 9), tail w/100sx PVL (YLD 1.41 Wt 13) TOC= surface

Production

0 ft to 12,115 ft				Make up Torque ft-lbs			Total ft =
O.D.	Weight	Grade	Threads	opt.	min.	mx.	
4.5 inches	11.6 #/ft	HCP-110	LT&C	3020	2270	3780	
Collapse Resistance	Internal Yield	Joint Strength		Body Yield		Drift	
8,650 psi	10,690 psi	279,000 #		367,000 #		3.875	

DV tool placed at approx. 7100' and cemented with one stage up to dv tool. After completion procedures, the 4 1/2" casing will be cut and pulled at 7100'

Cemented w/525sx PVL (YLD 1 83 Wt 13) TOC= 7100'



Co: Yates Petroleum Corporation			Units: Feet, °, 7100ft		VS Az: 269.74		Tgt TVD: 7650.00	
Drillers: 0			Elevation:		Tgt Radius: 0.00		Tgt MD: 0.00	
Well Name: Bullion BRL State #1H			Northing:		Tgt N/S: -20.83		Tgt Displ.: 0.00	
Location: Section 32, 26S-30E			Easting:		Tgt E/W: -4670.00		Method: Minimum Curvature	

No.	MD	CL	Inc.	Azi.	TVD	VS	+N/S-	+E/W-	BR	WR	DLS	Comments
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
1	670.00	670.00	0.00	360.00	670.00	0.00	0.00	0.00	0.00	0.00	0.00	Rustler
2	940.00	270.00	0.00	360.00	940.00	0.00	0.00	0.00	0.00	0.00	0.00	Top of Salt
3	2930.00	1990.00	0.00	360.00	2930.00	0.00	0.00	0.00	0.00	0.00	0.00	Base of Salt
4	3330.00	400.00	0.00	360.00	3330.00	0.00	0.00	0.00	0.00	0.00	0.00	Bell Canyon
5	4270.00	940.00	0.00	360.00	4270.00	0.00	0.00	0.00	0.00	0.00	0.00	Cherry Canyon
6	5790.00	1520.00	0.00	360.00	5790.00	0.00	0.01	0.00	0.00	0.00	0.00	Brushy Canyon
7	7172.54	7172.54	0.00	269.74	7172.54	0.00	0.01	0.00	0.00	3.76	0.00	KOP
8	7200.02	27.48	3.30	269.74	7200.00	0.79	0.00	-0.79	12.00	0.00	12.00	Bone Springs
9	7300.00	99.98	15.30	269.74	7298.49	16.91	-0.07	-16.91	12.00	0.00	12.00	
10	7400.00	100.00	27.30	269.74	7391.49	53.16	-0.23	-53.16	12.00	0.00	12.00	
11	7500.00	100.00	39.30	269.74	7474.93	107.96	-0.48	-107.96	12.00	0.00	12.00	
12	7600.00	100.00	51.30	269.74	7545.14	178.90	-0.79	-178.90	12.00	0.00	12.00	
13	7700.00	100.00	63.30	269.74	7599.07	262.90	-1.17	-262.90	12.00	0.00	12.00	
14	7800.00	100.00	75.30	269.74	7634.36	356.27	-1.58	-356.27	12.00	0.00	12.00	
15	7900.00	100.00	87.30	269.74	7649.47	454.94	-2.02	-454.93	12.00	0.00	12.00	
16	7922.53	750.00	90.00	269.74	7650.00	477.46	-2.12	-477.46	12.00	0.00	12.00	Avalon Shale Target
17	12115.12	4192.58	90.00	269.74	7650.01	4670.05	-20.82	-4670.00	0.00	0.00	0.00	Lateral TD

