

Contingency Casing Design

If hole conditions dictate, 7" casing will be set at 7,253' MD (6,980' TVD). A 6 1/8" hole will then be drilled to 11,395' MD (6,980' 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 6400'.

2nd Intermediate							Total ft = 100
0 ft to 100 ft				Make up Torque ft-lbs			
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 = 5,700
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	4,360 psi	313,000 #		366,000 #	6.25

5,800 ft to 7,253 ft		Make up Torque ft-lbs			Total ft = 1,453	
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

Lead w/760sx Lite crete (YLD 2.66 Wt. 9.9) tail w/125sx PVL (YLD 1.41 Wt 13) TOC = Surface

Production

0 ft to 11,395 ft		Make up Torque ft-lbs			Total ft = 11,395	
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
8,550 psi	10,890 psi	279,000 #		367,000 #		3.875

DV tool placed at approx. 6400' and cemented with one stage up to dv tool. After completion procedures, the 4 1/2" casing will be cut and pulled at 6400'.

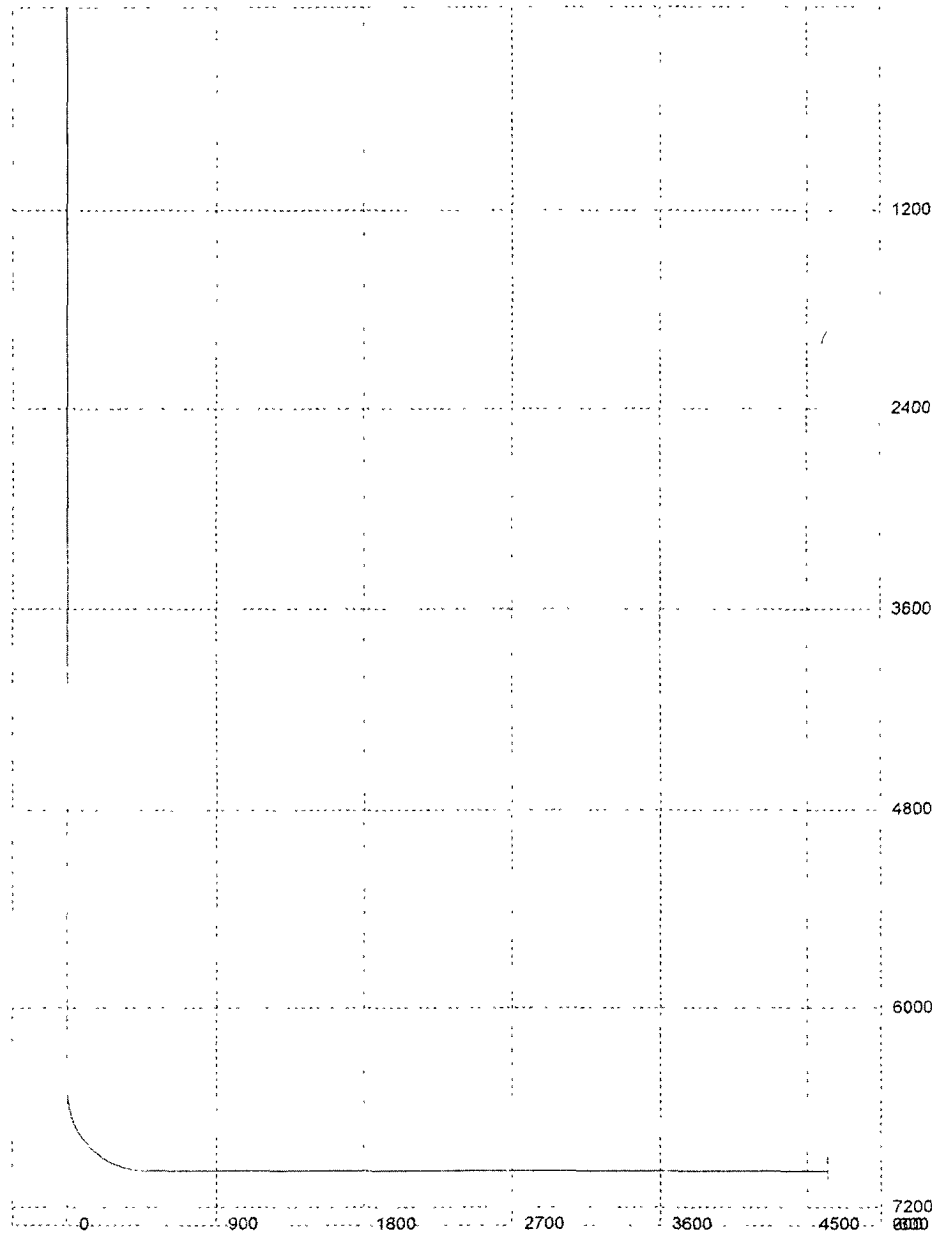
Cemented w/675sx PVL (YLD 1.41 Wt 13) TOC= 6400'

M.D.	Inclination	Azimuth	T.V.D.	N/S	E/W	D.S.	Tool Face	T.F. Ref	HS/GN
0	0	0	0	0	0	0			
520	0	0	520	0	0	0			CASTILLE
720	0	0	720	0	0	0			TOS
2,120	0	0	2,120	0	0	0			BOS
2,300	0	0	2,300	0	0	0			BELL CANYON
3,070	0	0	3,070	0	0	0			CHERRY CANYON
4,200	0	0	4,200	0	0	0			BRUSHY CANYON
5,550	0	0	5,550	0	0	0			BRUSHY CANYON MKR
5,820	0	0	5,820	0	0	0			BONE SPRINGS
6503	0	0	6503	0	0	12	90		GN KOP
6525	2.64	90	6524.99	0	0.51	12	0		HS
6550	5.64	90	6549.92	0	2.31	12	0		HS
6575	8.64	90	6574.73	0	5.42	12	0		HS
6600	11.64	90	6599.33	0	9.82	12	0		HS
6625	14.64	90	6623.68	0	15.5	12	0		HS
6650	17.64	90	6647.69	0	22.45	12	0		HS
6675	20.64	90	6671.3	0	30.65	12	0		HS
6700	23.64	90	6694.46	0	40.07	12	0		HS
6725	26.64	90	6717.09	0	50.69	12	0		HS
6750	29.64	90	6739.13	0	62.48	12	0		HS
6775	32.64	90	6760.52	0	75.4	12	0		HS
6800	35.64	90	6781.21	0	89.43	12	0		HS
6825	38.64	90	6801.14	0	104.52	12	0		HS
6850	41.64	90	6820.25	0	120.64	12	0		HS
6875	44.64	90	6838.49	0	137.73	12	0		HS
6900	47.64	90	6855.81	0	155.76	12	0		HS
6925	50.64	90	6872.17	0	174.66	12	0		HS
6950	53.64	90	6887.51	0	194.4	12	0		HS
6975	56.64	90	6901.79	0	214.91	12	0		HS
7000	59.64	90	6914.99	0	236.14	12	0		HS
7010.1	60.85	90	6920	0	244.91	12	0		HS FIRST BONE SPRINGS
7025	62.64	90	6927.05	0	258.03	12	0		HS
7050	65.64	90	6937.96	0	280.53	12	0		HS
7075	68.64	90	6947.67	0	303.56	12	0		HS
7100	71.64	90	6956.16	0	327.07	12	0		HS
7125	74.64	90	6963.41	0	350.99	12	0		HS
7150	77.64	90	6969.4	0	375.26	12	0		HS
7175	80.64	90	6974.11	0	399.81	12	0		HS
7200	83.64	90	6977.53	0	424.57	12	0		HS
7225	86.64	90	6979.64	0	449.48	12	0		HS
7250	89.64	90	6980.46	0	474.47	12	0		HS
7253.05	90.01	90	6980.47	0	477.52	12	0		HS FBSG TARGET
11395.54	90.01	90	6980	0	4820	12	0		HS LATERAL TD

Pilot hole drilled vertically to 8500' Well will be plugged back with 180' plug on bottom and 400'-500' kick off plug at approx 6503' and directionally drilled at 12 degrees per 100' with a 8 3/4" hole to 7253' MD (6,980' TVD). If hole conditions dictate, 7" casing will be set. A 6 1/8" hole will then be drilled to 11,395' MD (8,980' TVD) where 4 1/2" casing will be set and cemented. If 7" is not set, then hole size will be reduced to 7 7/8" and drilled to 11,395' MD (8,980' TVD) where 5 1/2" casing will be set and cemented. Penetration point of producing zone will be encountered at 660' FSL and 808' FWL, 14-25S-27E Deepest TVD in the well is 8500' in the pilot hole. Deepest TVD in the lateral will be 6980'.

3D³ Directional Drilling Planner - 3D View

Company: Yates Petroleum Corporation
Well: Perfecto BOX State Com. #1H



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