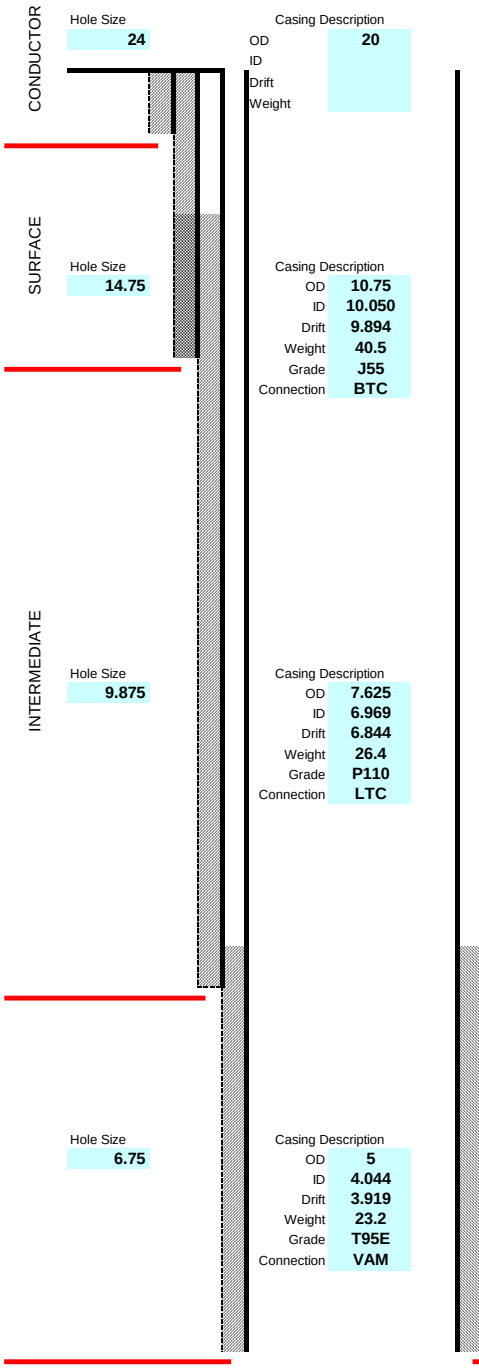
Renninger 30-7-2 Schematic & Cement



CONDUCTOR

Hole Size	Casing Description	
24	OD	20
	ID	
	Drift	
	Weight	

SURFACE

Hole Size	Casing Description	
14.75	OD	10.75
	ID	10.050
	Drift	9.894
	Weight	40.5
	Grade	J55
	Connection	BTC

INTERMEDIATE

Hole Size	Casing Description	
9.875	OD	7.625
	ID	6.969
	Drift	6.844
	Weight	26.4
	Grade	P110
	Connection	LTC

PRODUCTION

Hole Size	Casing Description	
6.75	OD	5
	ID	4.044
	Drift	3.919
	Weight	23.2
	Grade	T95E
	Connection	VAM

Annular Volume	ft3/ft	bbls/ft
	0.9599	0.1710

Measured Depth (Ft)

0	Top of Surface lead
40	Base of Conductor
1100	Top of Surface Tail
1600	Base of Surface
3667	Top of Intermediate Tail
8000	Top of Production Cement
8500	Base of Intermediate
12399	Base of Production

Annular Volume	ft3/ft	bbls/ft
	0.5563	0.0991

MD & TVD

2,536.5	OHIO CREEK (Top Kmv)
2,989.5	WILLIAMS FORK FM
4,167.5	TOP GAS
5,213.5	Coal Ridge (Paludal)
5,912.5	ROLLINS SS (Iles Fm)
6,502.5	COZZETTE
6,710.5	CORCORAN
7,874.5	BUCK TONGUE
7,879.5	MANCOS A
8,706.5	CASTLEGATE
8,945.5	MANCOS B
9,008.5	BLUE GATE
9,398.5	PRAIRIE CANYON
10,234.5	NIOBRARA
10,833.5	LAMINATED SILTST
11,365.5	FORT HAYS
11,394.5	CARLILE
11,590.5	FRONTIER
11,656.5	MOWRY
11,788.5	DAKOTA
11,855.5	CEDAR MTN

Annular Volume	ft3/ft	bbls/ft
Open hole	0.2148	0.0382
Cased hole	0.2338	0.0416

Annular Volume	ft3/ft	bbls/ft
Open hole	0.1122	0.0200
Cased hole	0.1285	0.0229

Top of Lead Cement	0		
Bottom of Lead Cement	40		
Lead Cement Yield		Lead Cement Weight	
% Excess	ft^3	sx	
100%	76.8	0	
25%	48.0	0	
15%	44.2	0	
0%	38.4	0	

Top of Lead Cement	0		
Bottom of Lead Cement	1100		
Lead Cement Yield	2.11 ft^3/sx	Lead Cement Weight	12.5 ppg
% Excess	ft^3	sx	
80%	1101.5	522	
25%	764.9	363	
15%	25.6	12	
0%	612.0	290	
Top of Tail Cement	1100		
Bottom of Tail Cement	1600		
Tail Cement Yield	1.17 ft^3/sx	Tail Cement Weight	15.8 ppg
% Excess	ft^3	sx	
80%	500.7	428	
25%	347.7	297	
15%	319.9	273	
0%	278.2	238	

Top of Tail Cement	3667		
Bottom of Tail Cement	8500		
Cement Yield	1.43 ft^3/sx	Lead Cement Weight	13.0 ppg
% Excess	ft^3	sx	
100%	2075.8	1452	
30%	1349.3	944	
15%	0.0	0	
0%	0.0	0	

Top of Tail Cement	8000		
Intermediate Casing	8500		
Bottom of Tail Cement	12399		
Tail Cement Yield	2.25 ft^3/sx	Tail Cement Weight	17.0 ppg
% Excess	ft^3	sx	
100%	986.7	439	
30%	632.7	281	
15%	567.4	252	
0%	493.4	219	