Bison Oil & Gas, Zenger 140 -Grabner 5-32 12-6 H

API/UWI: 33-053-06420
Operator: Bison Oil & Gas
Field: Bear Den
Pool: Bakken
Well Type: Horizontal
Surface Location: Lot 4 Sec 5 T140N R97W
Bottom Hole Location: Lot 4 Sec 32 T141N R97W
Elevation: KB: 2,000 GL: 1,975
Spud Date: 12/12/2011
Drilling Completed: 1/2/2012
Logging Completed: 1/3/2012
Total Depth: 20,580
Production Casing: 7" 29# P-110 @ 10,000 w/ 1,000 sx
Production Liner: 4.5" 11.6# P-110 HTC 9,900-20,580 w/ 1,000 sx
Perforations: 10,000-20,580
Status: Pending

Date	Time	Depth	Type	Amount

Formations

Formation	Depth
Kibbey Lime	8,470
First Charles Salt	8,620
UB	9,250
Base Last Salt	9,420
Ratcliffe	9,470
Mission Canyon	9,670
Lodgepole	10,220
False Bakken	10,750
Scallion	10,760
Upper Bakken Shale	10,770
Middle Bakken	10,800
Lower Bakken Shale	10,870
Three Forks	10,900

Comments

Drilling Fluid

Type	From	To
Fresh Water	2,000	10,000
Brine	10,000	20,580

Casing

Type	Size	Weight	Grade	Top	Bottom
Surface	9 5/8"	36	J-55	0	2,000
Intermediate	7"	29	P-110	0	10,000
Liner	4.5"	11.6	P-110 HTC	9,900	20,580

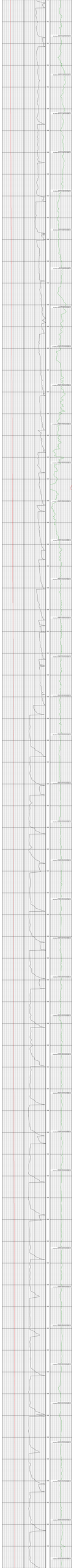
Bit Record

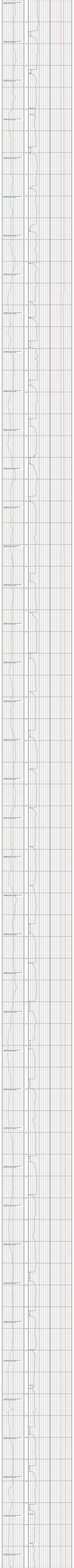
Bit	Size	Manufacturer	Type	In	Out	Footage	Hours	ROP
1	13 1/2"	Smith	MSDSH	0	2,000	2,000	24	83.3
2	8 3/4"	Smith	MDSH	2,000	10,000	8,000	96	83.3
3	6 1/8"	Smith	MDSH	10,000	20,580	10,580	144	73.5

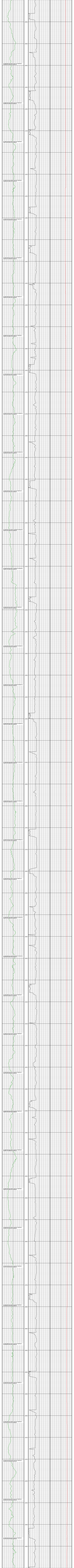
Deviation Survey

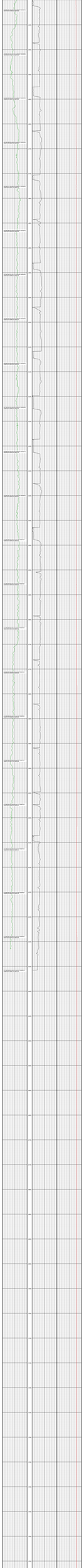
Depth	Inclination	Azimuth
2,000	0.5	180
10,000	0.5	180
20,580	0.5	180

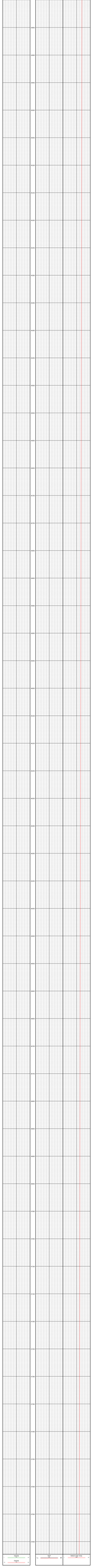
Mud Logging Company: Sundance Services
Logging Engineer: Jeff Hoffman, Ryan Hoffman, Jeff Hoffman, Ryan Hoffman, Jeff Hoffman, Ryan Hoffman,







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