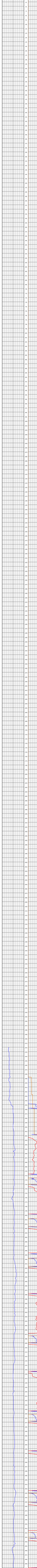
Well Name: Herbers 1F-20H-B157
API #: 33-053-06777
Field: BAKER
County: MCKENZIE
State: ND
Sec: 20
Twp: 153 N
Rge: 101 W
Section Line: 1,000 FSL
Section Line: 1,000 FWL
Ground Elevation: 2,000.00
Rig Operator: Nabors
Rig Name: B157
Rig Flag: KB
Rig Elevation: 2,026.00
Latitude: 48° 0' 0.000 N
Longitude: 103° 0' 0.000 W
Datum: NAD83
Vertical Section Direction: 180.00°
Magnetic Declination: 8.00°

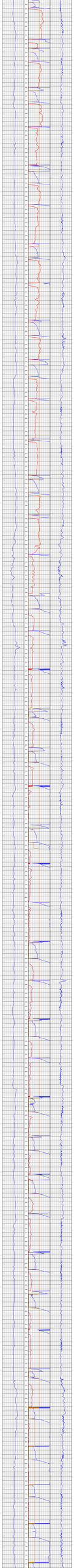
Survey Calculation Method	Vertical Section Direction	Vertical Section Origin
Minimum Curvature	180.00°	+N/-S 0.00 ft +E/-W 0.00 ft

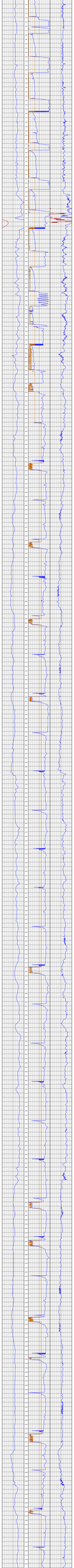
Survey Error Model	Depth Range From	Depth Range To
ISCWSA Rev 4	0.00 ft	20,926.00 ft

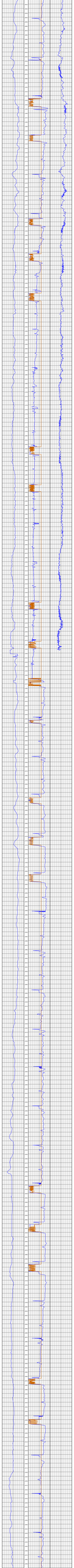
Survey Program		
Type	Depth From (ft)	Depth To (ft)
Gyro	0.00	100.00
MWD	100.00	20,926.00

Survey										
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	Northing (ft)	Easting (ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20,926.00	90.00	180.00	10,926.00	-10,826.00	0.00	0.00	0.00	0.00	-10,826.00	0.00









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15070
15080
15090
15100
15110
15120
Gamma
API
0
150
150
300
ROP
0
0
500
500
1000
Rotary Speed
rpm
0
100
Memory Gamma
API
0
150
150
300