Hinging 3C-18H N157

Operator: [redacted]
Well: Hinging 3C-18H N157
Pad: Hinging 3C
Field: Hinging
County: Mountrail
State: North Dakota
Surface Location: 1,000' FNL & 1,000' FEL
Sec. 18 T157N R101W
Latitude: 48.01° N
Longitude: 103.71° W
Datum: NAD83 / WGS84
Ground Elevation: 1,900'
KB Elevation: 1,925'
API #: 33-061-03

Prepared by: [redacted]
Date: 2/2/2018

Directional Survey Certification

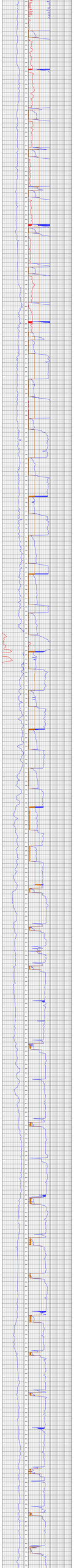
I hereby certify that the attached directional survey is true and correct to the best of my knowledge and belief.

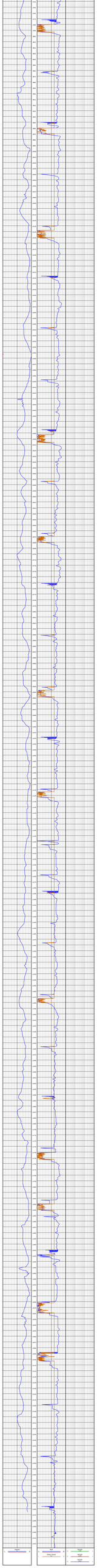
Name: [redacted]
Title: Directional Supervisor
Date: 2/2/2018

Survey Company: [redacted]
Job Number: [redacted]
Survey Type: Gyro
Survey Date: 1/31/2018
Tie-In Point: Surface
Declination: 8.31°
Grid Convention: True North
Vertical Section Azimuth: 180.00°

Survey Point	Measured Depth	Inclination	Azimuth
Surface	0	0.00°	0.00°
Tie-In	0	0.00°	0.00°
Last Survey	20,500	90.00°	180.00°
Projection	20,500	90.00°	180.00°

Survey Point	Measured Depth	Inclination	Azimuth	TVD	Vertical Section	Northing	Easting	Dogleg Severity




Caliper
6
16
Gamma Ray
0
150
Resistivity
0.2
2000
Deep
Medium
Shallow