

SURVEY CERTIFICATION FORM



3610 Elkins Road Midland, TX 79705 t:432-684-0057 f: 432-686-7964

Company: Apache

Well Name: Raven Federal Com # 22H

Survey Instrument Type: North Seek Rate Gyro

Job #: 01514598

County/State: Eddy Co., New Mexico

API # 30-015-43361

TIE-IN DATA

Measure Depth (ft)	Vertical Depth (ft)	Inclination (°)	Azimuth (°)	N-S Coordinates	E-W Coordinates	Data Source
0	0	0	0	0	0	Surface

First Survey

Date	Depth (ft)	Inclination (°)	Azimuth (°)
2015-11-07	0	0	0

Last Survey

Date	Depth (ft)	Inclination (°)	Azimuth (°)
2015-11-07	4662	0.42	98.08

Projected TD Survey

Date	Depth (ft)	Inclination (°)	Azimuth (°)
0	0	0	0

Grid Correction
-0.23

Gyro Operator: Phoenix Technology Services USA Ltd

Gyro Supervisor: Jaime Stephenson

To the best of my knowledge I certify this survey data to be correct and true

Date:

11-07-15

Print Name: Noe Garza

Signature: