



SUMMIT
OILFIELD SERVICES, INC

Company: Summit Oil & Gas
Lease/Well: H D LAUER ESTATE #1
County/ State: WELD, CO
API#: 05-123-05404

Survey Type: Memory Survey
North Reference: True North
Rig Name: N/A
RKB: N/A

Date: 9-26-21
Job Number: 10801-512305404
Survey Engineer: N. Brehmer
Instrument Number: GP1-1021

Summit Oilfield Services

H D LAUER ESTATE #1 GYRO SURVEY

Minimum Curvature Method
Vertical Section Plane: 0.00
Vertical Section Reference: WELLHEAD
Rectangular Coordinates Reference: WELLHEAD

Measured Depth	Indin	Azimuth	Course Length	True Vertical Depth	N[+]/S[-]	E[+]/W[-]	Vertical Section	Dogleg Severity	Closure Distance	Closure Direction
0.00 ft	0.00	0.00	0.00 ft	0.00 ft	0.00 ft	0.00 ft	0.00 ft	0.00/100 ft	0.00 ft	0.00
100.00 ft	0.26	199.76	100.00 ft	100.00 ft	-0.21 ft	-0.08 ft	-0.21 ft	0.26/100 ft	0.23 ft	199.76
200.00 ft	0.23	200.70	100.00 ft	200.00 ft	-0.62 ft	-0.22 ft	-0.62 ft	0.03/100 ft	0.65 ft	200.05
300.00 ft	0.23	213.17	100.00 ft	300.00 ft	-0.97 ft	-0.41 ft	-0.97 ft	0.05/100 ft	1.05 ft	202.66
400.00 ft	0.23	204.06	100.00 ft	400.00 ft	-1.33 ft	-0.60 ft	-1.33 ft	0.04/100 ft	1.45 ft	204.31
500.00 ft	0.19	277.24	100.00 ft	500.00 ft	-1.49 ft	-0.84 ft	-1.49 ft	0.25/100 ft	1.71 ft	209.50
600.00 ft	0.34	150.51	100.00 ft	600.00 ft	-1.73 ft	-0.86 ft	-1.73 ft	0.48/100 ft	1.93 ft	206.42
700.00 ft	0.59	111.74	100.00 ft	699.99 ft	-2.18 ft	-0.23 ft	-2.18 ft	0.39/100 ft	2.19 ft	186.04
800.00 ft	2.41	113.52	100.00 ft	799.95 ft	-3.21 ft	2.18 ft	-3.21 ft	1.81/100 ft	3.88 ft	145.84
900.00 ft	1.96	125.99	100.00 ft	899.88 ft	-5.05 ft	5.49 ft	-5.05 ft	0.65/100 ft	7.46 ft	132.63
1000.00 ft	1.45	141.96	100.00 ft	999.84 ft	-7.05 ft	7.65 ft	-7.05 ft	0.69/100 ft	10.40 ft	132.67
1100.00 ft	1.08	169.98	100.00 ft	1099.81 ft	-8.97 ft	8.59 ft	-8.97 ft	0.71/100 ft	12.42 ft	136.24
1200.00 ft	0.53	203.72	100.00 ft	1199.80 ft	-10.32 ft	8.57 ft	-10.32 ft	0.70/100 ft	13.42 ft	140.30

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1300.00 ft	0.07	224.30	100.00 ft	1299.80 ft	-10.79 ft	8.34 ft	-10.79 ft	0.46/100 ft	13.64 ft	142.31
1400.00 ft	0.12	238.46	100.00 ft	1399.80 ft	-10.89 ft	8.20 ft	-10.89 ft	0.05/100 ft	13.64 ft	143.01
1500.00 ft	0.66	246.32	100.00 ft	1499.80 ft	-11.18 ft	7.59 ft	-11.18 ft	0.54/100 ft	13.51 ft	145.84
1566.00 ft	1.15	256.85	66.00 ft	1565.79 ft	-11.48 ft	6.59 ft	-11.48 ft	0.78/100 ft	13.24 ft	150.15

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