



SUMMIT
OILFIELD SERVICES, INC

Company: Summit Oil and Gas
Lease/Well: State #1
County/ State: Weld, CO
API#: 05-123-05448

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

Date: 10-5-21
Job Number: 10892-512305448
Survey Engineer: N. Brehmer
Instrument Number: GP1-1021

Summit Oilfield Services

State #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	0.28	353.91	100.00 ft	100.00 ft	0.24 ft	-0.03 ft	0.24 ft	0.28/100 ft	0.25 ft	353.91
200.00 ft	0.04	84.79	100.00 ft	200.00 ft	0.49 ft	-0.01 ft	0.49 ft	0.29/100 ft	0.49 ft	358.32
300.00 ft	0.23	30.94	100.00 ft	300.00 ft	0.67 ft	0.13 ft	0.67 ft	0.21/100 ft	0.68 ft	10.73
400.00 ft	0.27	24.53	100.00 ft	400.00 ft	1.05 ft	0.33 ft	1.05 ft	0.05/100 ft	1.10 ft	17.26
500.00 ft	0.30	355.04	100.00 ft	500.00 ft	1.53 ft	0.40 ft	1.53 ft	0.15/100 ft	1.58 ft	14.77
600.00 ft	0.28	327.12	100.00 ft	600.00 ft	1.99 ft	0.25 ft	1.99 ft	0.14/100 ft	2.01 ft	7.14
700.00 ft	0.28	353.44	100.00 ft	699.99 ft	2.44 ft	0.09 ft	2.44 ft	0.13/100 ft	2.44 ft	2.13
800.00 ft	0.12	51.25	100.00 ft	799.99 ft	2.74 ft	0.14 ft	2.74 ft	0.24/100 ft	2.75 ft	2.98
900.00 ft	0.16	42.46	100.00 ft	899.99 ft	2.91 ft	0.32 ft	2.91 ft	0.05/100 ft	2.93 ft	6.26
1000.00 ft	0.18	303.55	100.00 ft	999.99 ft	3.10 ft	0.29 ft	3.10 ft	0.26/100 ft	3.12 ft	5.28
1100.00 ft	0.16	192.73	100.00 ft	1099.99 ft	3.06 ft	0.13 ft	3.06 ft	0.28/100 ft	3.06 ft	2.37
1200.00 ft	0.10	342.90	100.00 ft	1199.99 ft	3.00 ft	0.07 ft	3.00 ft	0.25/100 ft	3.00 ft	1.36

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Date: 10-5-21
Job Number: 10892-512305448
Survey Engineer: N. Brehmer
Instrument Number: GP1-1021

Measured Depth	Inclin	Azimuth	Course Length	True Vertical Depth	N[+]/S[-]	E[+]/W[-]	Vertical Section	Dogleg Severity	Closure Distance	Closure Direction
1300.00 ft	0.15	304.40	100.00 ft	1299.99 ft	3.15 ft	-0.06 ft	3.15 ft	0.09/100 ft	3.16 ft	358.91
1400.00 ft	0.30	282.27	100.00 ft	1399.99 ft	3.28 ft	-0.42 ft	3.28 ft	0.17/100 ft	3.31 ft	352.71
1500.00 ft	0.22	244.00	100.00 ft	1499.99 ft	3.25 ft	-0.85 ft	3.25 ft	0.18/100 ft	3.36 ft	345.37
1600.00 ft	0.42	267.13	100.00 ft	1599.99 ft	3.15 ft	-1.39 ft	3.15 ft	0.23/100 ft	3.44 ft	336.21
1700.00 ft	0.32	258.28	100.00 ft	1699.99 ft	3.07 ft	-2.03 ft	3.07 ft	0.11/100 ft	3.68 ft	326.56
1800.00 ft	0.34	227.98	100.00 ft	1799.99 ft	2.82 ft	-2.52 ft	2.82 ft	0.17/100 ft	3.78 ft	318.14
1900.00 ft	0.23	63.93	100.00 ft	1899.99 ft	2.71 ft	-2.57 ft	2.71 ft	0.56/100 ft	3.73 ft	316.54
2000.00 ft	0.39	52.06	100.00 ft	1999.98 ft	3.01 ft	-2.12 ft	3.01 ft	0.18/100 ft	3.68 ft	324.83
2100.00 ft	0.60	41.91	100.00 ft	2099.98 ft	3.61 ft	-1.50 ft	3.61 ft	0.23/100 ft	3.91 ft	337.50
2200.00 ft	0.53	41.63	100.00 ft	2199.98 ft	4.35 ft	-0.84 ft	4.35 ft	0.08/100 ft	4.43 ft	349.09
2300.00 ft	0.05	342.68	100.00 ft	2299.97 ft	4.73 ft	-0.54 ft	4.73 ft	0.50/100 ft	4.76 ft	353.44
2400.00 ft	0.26	50.00	100.00 ft	2399.97 ft	4.92 ft	-0.38 ft	4.92 ft	0.25/100 ft	4.93 ft	355.58
2500.00 ft	0.18	358.46	100.00 ft	2499.97 ft	5.23 ft	-0.21 ft	5.23 ft	0.21/100 ft	5.23 ft	357.73
2600.00 ft	0.17	100.34	100.00 ft	2599.97 ft	5.36 ft	-0.07 ft	5.36 ft	0.27/100 ft	5.36 ft	359.29
2700.00 ft	0.27	11.96	100.00 ft	2699.97 ft	5.56 ft	0.13 ft	5.56 ft	0.31/100 ft	5.56 ft	1.31
2800.00 ft	0.35	74.42	100.00 ft	2799.97 ft	5.87 ft	0.47 ft	5.87 ft	0.33/100 ft	5.89 ft	4.59
2900.00 ft	1.14	59.72	100.00 ft	2899.96 ft	6.45 ft	1.63 ft	6.45 ft	0.81/100 ft	6.66 ft	14.14
3000.00 ft	1.17	58.20	100.00 ft	2999.94 ft	7.49 ft	3.35 ft	7.49 ft	0.04/100 ft	8.21 ft	24.11
3100.00 ft	1.17	66.09	100.00 ft	3099.92 ft	8.45 ft	5.16 ft	8.45 ft	0.16/100 ft	9.90 ft	31.41
3200.00 ft	0.86	64.64	100.00 ft	3199.90 ft	9.18 ft	6.77 ft	9.18 ft	0.31/100 ft	11.41 ft	36.41
3300.00 ft	0.79	66.31	100.00 ft	3299.89 ft	9.78 ft	8.09 ft	9.78 ft	0.08/100 ft	12.69 ft	39.57

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Date: 10-5-21
Job Number: 10892-512305448
Survey Engineer: N. Brehmer
Instrument Number: GP1-1021

Measured Depth	Inclin	Azimuth	Course Length	True Vertical Depth	N[+]/S[-]	E[+]/W[-]	Vertical Section	Dogleg Severity	Closure Distance	Closure Direction
3400.00 ft	0.85	75.83	100.00 ft	3399.88 ft	10.24 ft	9.44 ft	10.24 ft	0.15/100 ft	13.93 ft	42.65
3500.00 ft	0.75	61.40	100.00 ft	3499.87 ft	10.74 ft	10.73 ft	10.74 ft	0.22/100 ft	15.18 ft	44.97
3600.00 ft	0.53	36.47	100.00 ft	3599.87 ft	11.42 ft	11.57 ft	11.42 ft	0.35/100 ft	16.26 ft	45.38
3700.00 ft	0.47	27.02	100.00 ft	3699.86 ft	12.16 ft	12.04 ft	12.16 ft	0.10/100 ft	17.11 ft	44.71
3800.00 ft	0.50	21.53	100.00 ft	3799.86 ft	12.93 ft	12.38 ft	12.93 ft	0.05/100 ft	17.90 ft	43.76
3900.00 ft	0.77	36.38	100.00 ft	3899.85 ft	13.88 ft	12.94 ft	13.88 ft	0.32/100 ft	18.97 ft	43.01
4000.00 ft	1.09	37.18	100.00 ft	3999.84 ft	15.17 ft	13.92 ft	15.17 ft	0.31/100 ft	20.59 ft	42.52
4100.00 ft	1.13	30.89	100.00 ft	4099.82 ft	16.78 ft	15.00 ft	16.78 ft	0.13/100 ft	22.50 ft	41.79
4200.00 ft	1.14	30.63	100.00 ft	4199.80 ft	18.49 ft	16.01 ft	18.49 ft	0.01/100 ft	24.46 ft	40.90
4300.00 ft	1.05	29.14	100.00 ft	4299.78 ft	20.14 ft	16.97 ft	20.14 ft	0.09/100 ft	26.34 ft	40.11
4400.00 ft	1.19	35.67	100.00 ft	4399.77 ft	21.79 ft	18.02 ft	21.79 ft	0.19/100 ft	28.28 ft	39.59
4500.00 ft	1.59	60.34	100.00 ft	4499.74 ft	23.32 ft	19.83 ft	23.32 ft	0.71/100 ft	30.62 ft	40.38
4600.00 ft	1.66	72.58	100.00 ft	4599.70 ft	24.45 ft	22.42 ft	24.45 ft	0.35/100 ft	33.17 ft	42.53
4700.00 ft	1.41	77.43	100.00 ft	4699.66 ft	25.15 ft	25.01 ft	25.15 ft	0.28/100 ft	35.47 ft	44.84
4800.00 ft	1.32	84.70	100.00 ft	4799.63 ft	25.52 ft	27.36 ft	25.52 ft	0.19/100 ft	37.41 ft	46.99
4900.00 ft	1.18	83.55	100.00 ft	4899.61 ft	25.74 ft	29.53 ft	25.74 ft	0.15/100 ft	39.18 ft	48.92
5000.00 ft	0.99	78.79	100.00 ft	4999.59 ft	26.03 ft	31.40 ft	26.03 ft	0.21/100 ft	40.79 ft	50.35
5100.00 ft	0.70	90.09	100.00 ft	5099.58 ft	26.19 ft	32.86 ft	26.19 ft	0.33/100 ft	42.02 ft	51.44
5200.00 ft	0.64	82.61	100.00 ft	5199.57 ft	26.27 ft	34.03 ft	26.27 ft	0.11/100 ft	42.99 ft	52.34
5300.00 ft	0.70	70.15	100.00 ft	5299.57 ft	26.54 ft	35.15 ft	26.54 ft	0.15/100 ft	44.05 ft	52.95
5400.00 ft	0.54	68.18	100.00 ft	5399.56 ft	26.92 ft	36.16 ft	26.92 ft	0.16/100 ft	45.08 ft	53.33

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Measured Depth	Inclin	Azimuth	Course Length	True Vertical Depth	N[+]/S[-]	E[+]/W[-]	Vertical Section	Dogleg Severity	Closure Distance	Closure Direction
5500.00 ft	0.38	75.33	100.00 ft	5499.56 ft	27.18 ft	36.91 ft	27.18 ft	0.17/100 ft	45.84 ft	53.63
5600.00 ft	0.41	69.45	100.00 ft	5599.55 ft	27.39 ft	37.56 ft	27.39 ft	0.05/100 ft	46.49 ft	53.90
5700.00 ft	0.55	57.41	100.00 ft	5699.55 ft	27.77 ft	38.30 ft	27.77 ft	0.18/100 ft	47.31 ft	54.05

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