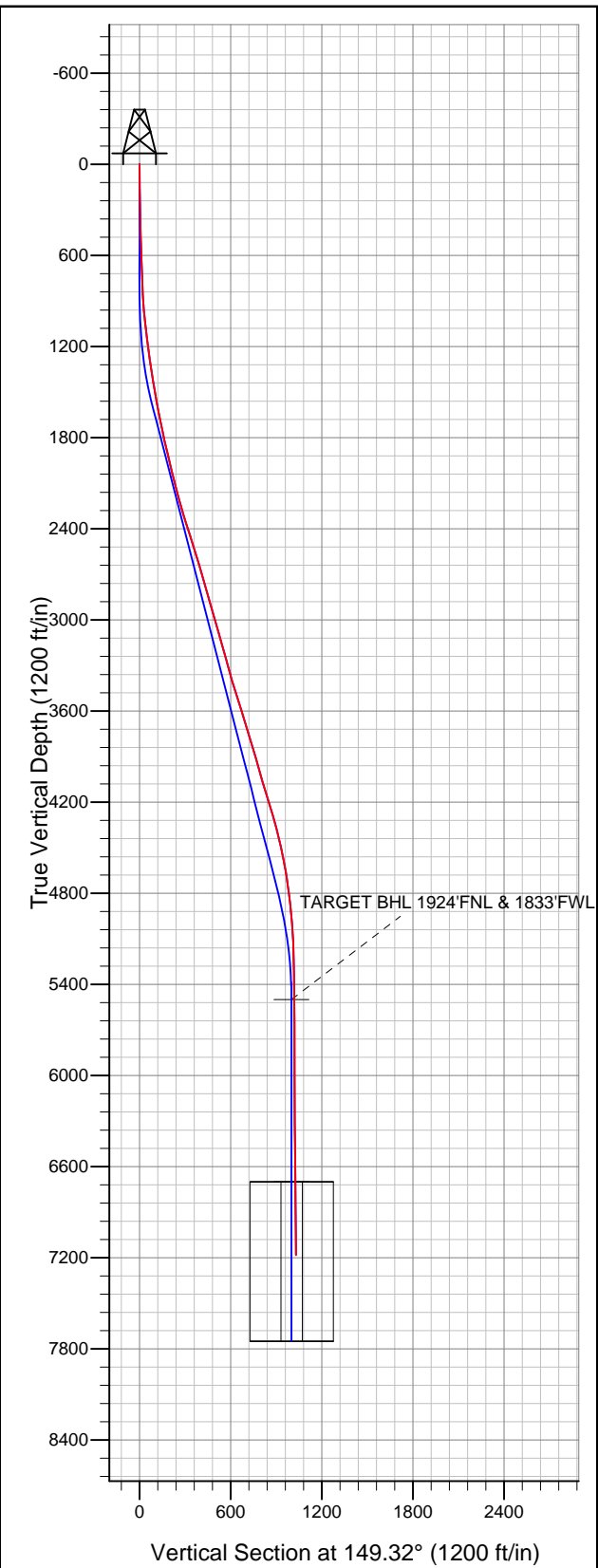


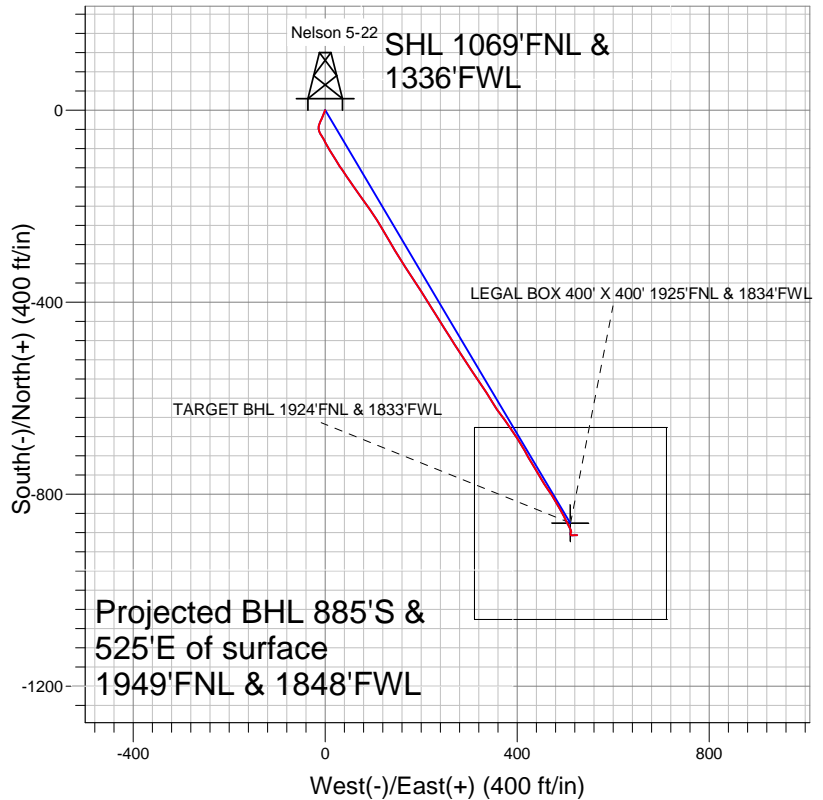


Well Name: Nelson 5-22

Surface Location: Nelson 5-12 Pad Sec.5-T4N-R67W
North American Datum 1983 US State Plane 1983 Colorado Northern Zone
Ground Elevation: 4850.0
+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.0 0.0 1369462.61 3161928.03 40.346120 -104.919050
Original Well Elev WELL @ 4863.0ft (Original Well Elev)



TRILLOGY RESOURCES, LLC. Weld County, CO



LEGEND

- Nelson 5-22, Wellbore #1, Plan #2 (11-15-11) V0
- Wellbore #1
- Survey #1

Final Survey Plot

Projected Final Survey -
7309'MD & 7182'TVD @ 1029'VS
0.8 deg Inc 91.9 deg AZ

Project: SEC.5-T4N-R67W
Site: Nelson 5-12 Pad Sec.5-T4N-R67W
Well: Nelson 5-22
Plan: Wellbore #1



TRILLOGY RESOURCES, LLC. Weld County, CO

SEC.5-T4N-R67W

Nelson 5-12 Pad Sec.5-T4N-R67W

Nelson 5-22

Wellbore #1

Survey: Survey #1

Standard Survey Report

23 November, 2011

Company:	TRILLOGY RESOURCES, LLC. Weld County, CO	Local Co-ordinate Reference:	Well Nelson 5-22
Project:	SEC.5-T4N-R67W	TVD Reference:	WELL @ 4863.0ft (Original Well Elev)
Site:	Nelson 5-12 Pad Sec.5-T4N-R67W	MD Reference:	WELL @ 4863.0ft (Original Well Elev)
Well:	Nelson 5-22	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Project	SEC.5-T4N-R67W, Weld County, CO		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		Using Well Reference Point
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

Site		Nelson 5-12 Pad Sec.5-T4N-R67W			
Site Position:		Northing:	1,369,407.60ft	Latitude:	40.345970
From:	Lat/Long	Easting:	3,161,869.85ft	Longitude:	-104.919260
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.38 °

Well	Nelson 5-22					
Well Position	+N-S	0.0 ft	Northing:	1,369,462.61 ft	Latitude:	40.346120
	+E-W	0.0 ft	Easting:	3,161,928.03 ft	Longitude:	-104.919050
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,850.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	9/21/2011	8.91	66.97	53,058

Design	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	5,500.0	0.0	0.0	149.32	

Survey Program	Date	11/23/2011			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
611.0	7,309.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard	

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
611.0	3.70	201.80	610.6	-18.3	-7.3	12.0	0.61	0.61	0.00
704.0	3.20	209.30	703.4	-23.4	-9.7	15.1	0.72	-0.54	8.06
798.0	3.60	199.70	797.2	-28.4	-12.0	18.3	0.74	0.43	-10.21
892.0	4.50	186.50	891.0	-34.9	-13.4	23.2	1.37	0.96	-14.04
986.0	5.60	164.60	984.7	-43.0	-12.6	30.5	2.34	1.17	-23.30
1,080.0	6.70	146.20	1,078.1	-51.9	-8.3	40.4	2.39	1.17	-19.57
1,173.0	6.90	150.40	1,170.5	-61.3	-2.6	51.4	0.58	0.22	4.52
1,267.0	8.00	153.50	1,263.7	-72.1	3.2	63.6	1.25	1.17	3.30
1,360.0	8.80	149.00	1,355.7	-84.0	9.7	77.2	1.11	0.86	-4.84
1,453.0	9.50	145.90	1,447.5	-96.4	17.7	91.9	0.92	0.75	-3.33
1,547.0	10.20	149.50	1,540.1	-110.0	26.2	108.0	0.99	0.74	3.83

Company:	TRILLOGY RESOURCES, LLC. Weld County, CO	Local Co-ordinate Reference:	Well Nelson 5-22
Project:	SEC.5-T4N-R67W	TVD Reference:	WELL @ 4863.0ft (Original Well Elev)
Site:	Nelson 5-12 Pad Sec.5-T4N-R67W	MD Reference:	WELL @ 4863.0ft (Original Well Elev)
Well:	Nelson 5-22	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,640.0	10.90	145.00	1,631.5	-124.3	35.5	125.0	1.16	0.75	-4.84
1,734.0	11.80	145.80	1,723.7	-139.5	46.0	143.5	0.97	0.96	0.85
1,828.0	12.90	147.20	1,815.5	-156.3	57.1	163.5	1.21	1.17	1.49
1,921.0	13.20	142.40	1,906.1	-173.4	69.2	184.5	1.21	0.32	-5.16
2,016.0	13.40	144.40	1,998.6	-191.0	82.2	206.2	0.53	0.21	2.11
2,110.0	14.40	145.90	2,089.8	-209.5	95.1	228.7	1.13	1.06	1.60
2,204.0	14.70	147.80	2,180.8	-229.3	108.0	252.3	0.60	0.32	2.02
2,298.0	16.60	149.70	2,271.3	-251.0	121.1	277.6	2.09	2.02	2.02
2,391.0	17.60	150.20	2,360.2	-274.7	134.8	305.0	1.09	1.08	0.54
2,485.0	18.00	148.10	2,449.7	-299.3	149.5	333.7	0.80	0.43	-2.23
2,579.0	16.60	146.50	2,539.4	-322.8	164.6	361.7	1.57	-1.49	-1.70
2,672.0	16.40	146.90	2,628.6	-344.9	179.1	388.0	0.25	-0.22	0.43
2,766.0	16.50	148.50	2,718.8	-367.4	193.4	414.6	0.49	0.11	1.70
2,860.0	16.00	147.90	2,809.0	-389.8	207.2	440.9	0.56	-0.53	-0.64
2,953.0	16.40	146.20	2,898.3	-411.5	221.3	466.9	0.67	0.43	-1.83
3,047.0	15.40	149.00	2,988.7	-433.3	235.1	492.6	1.34	-1.06	2.98
3,141.0	15.80	146.80	3,079.3	-454.7	248.6	517.9	0.76	0.43	-2.34
3,234.0	16.00	149.10	3,168.7	-476.3	262.1	543.3	0.71	0.22	2.47
3,328.0	16.20	145.40	3,259.0	-498.2	276.2	569.4	1.11	0.21	-3.94
3,422.0	15.10	148.00	3,349.5	-519.4	290.1	594.7	1.39	-1.17	2.77
3,516.0	17.00	146.00	3,439.9	-541.1	304.3	620.7	2.10	2.02	-2.13
3,610.0	17.50	145.50	3,529.6	-564.2	320.0	648.5	0.55	0.53	-0.53
3,704.0	18.00	147.50	3,619.2	-588.1	335.8	677.1	0.84	0.53	2.13
3,797.0	17.10	148.70	3,707.8	-611.9	350.6	705.1	1.04	-0.97	1.29
3,891.0	16.20	144.20	3,797.9	-634.3	365.5	732.0	1.67	-0.96	-4.79
3,984.0	16.10	142.70	3,887.2	-655.1	380.9	757.7	0.46	-0.11	-1.61
4,078.0	16.00	147.30	3,977.6	-676.4	395.8	783.6	1.36	-0.11	4.89
4,172.0	16.70	150.80	4,067.8	-699.1	409.4	810.1	1.29	0.74	3.72
4,266.0	17.50	149.40	4,157.6	-723.0	423.1	837.7	0.96	0.85	-1.49
4,359.0	16.70	148.50	4,246.5	-746.4	437.2	865.1	0.91	-0.86	-0.97
4,453.0	15.00	148.70	4,336.9	-768.4	450.6	890.7	1.81	-1.81	0.21
4,546.0	13.50	147.10	4,427.1	-787.8	462.8	913.6	1.67	-1.61	-1.72
4,640.0	12.70	147.00	4,518.6	-805.6	474.4	934.9	0.85	-0.85	-0.11
4,735.0	10.20	151.10	4,611.7	-821.8	484.1	953.8	2.77	-2.63	4.32
4,829.0	8.70	151.30	4,704.4	-835.3	491.6	969.2	1.60	-1.60	0.21
4,922.0	7.30	152.70	4,796.5	-846.7	497.6	982.1	1.52	-1.51	1.51
5,016.0	6.00	152.80	4,889.9	-856.4	502.6	993.0	1.38	-1.38	0.11
5,110.0	4.70	155.30	4,983.5	-864.2	506.5	1,001.7	1.40	-1.38	2.66
5,204.0	3.50	151.90	5,077.2	-870.3	509.4	1,008.4	1.30	-1.28	-3.62
5,297.0	2.10	151.30	5,170.1	-874.3	511.6	1,012.9	1.51	-1.51	-0.65
5,391.0	1.20	165.10	5,264.1	-876.7	512.7	1,015.6	1.04	-0.96	14.68
5,485.0	0.90	208.10	5,358.1	-878.3	512.6	1,016.9	0.87	-0.32	45.74
5,626.7	0.52	206.60	5,499.8	-879.9	511.8	1,017.9	0.27	-0.27	-1.06
TARGET BHL 1924'FNL & 1833'FWL									
5,673.0	0.40	205.50	5,546.1	-880.2	511.6	1,018.1	0.27	-0.27	-2.38
5,861.0	0.30	202.10	5,734.1	-881.3	511.1	1,018.7	0.05	-0.05	-1.81
6,048.0	0.40	182.10	5,921.1	-882.4	510.9	1,019.6	0.08	0.05	-10.70
6,236.0	0.50	174.70	6,109.1	-883.9	511.0	1,020.9	0.06	0.05	-3.94
6,423.0	0.50	128.90	6,296.0	-885.2	511.7	1,022.4	0.21	0.00	-24.49
6,610.0	0.70	98.30	6,483.0	-885.9	513.5	1,023.9	0.20	0.11	-16.36
6,826.9	1.00	81.61	6,699.9	-885.8	516.6	1,025.4	0.18	0.14	-7.69
LEGAL BOX 400' X 400' 1925'FNL & 1834'FWL									
6,829.0	1.00	81.50	6,702.0	-885.8	516.7	1,025.4	0.18	0.15	-5.31

Company:	TRILLOGY RESOURCES, LLC. Weld County, CO	Local Co-ordinate Reference:	Well Nelson 5-22
Project:	SEC.5-T4N-R67W	TVD Reference:	WELL @ 4863.0ft (Original Well Elev)
Site:	Nelson 5-12 Pad Sec.5-T4N-R67W	MD Reference:	WELL @ 4863.0ft (Original Well Elev)
Well:	Nelson 5-22	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
6,985.0	1.00	85.30	6,858.0	-885.5	519.4	1,026.5	0.04	0.00	2.44
7,173.0	1.10	87.70	7,046.0	-885.3	522.8	1,028.1	0.06	0.05	1.28
7,309.0	0.80	91.90	7,181.9	-885.2	525.1	1,029.2	0.23	-0.22	3.09

Checked By: _____	Approved By: _____	Date: _____
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