ENSIGN Directional

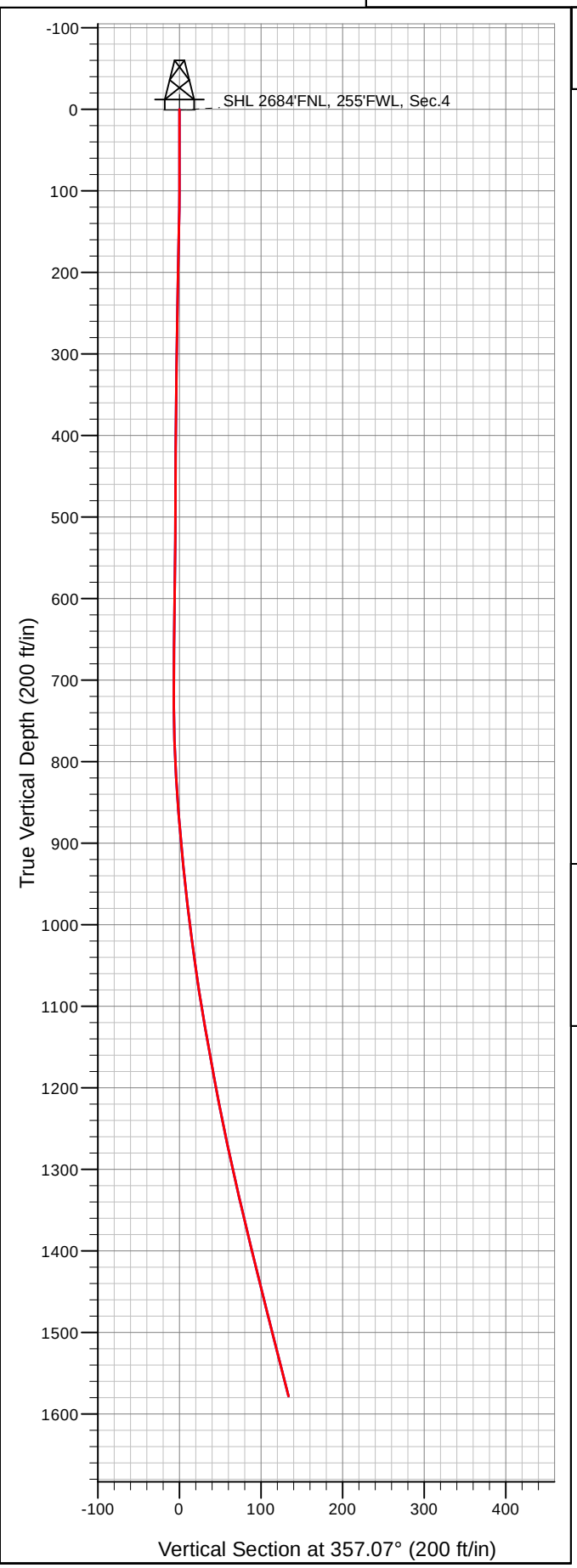
Well Name: Silverton 5-2-4L

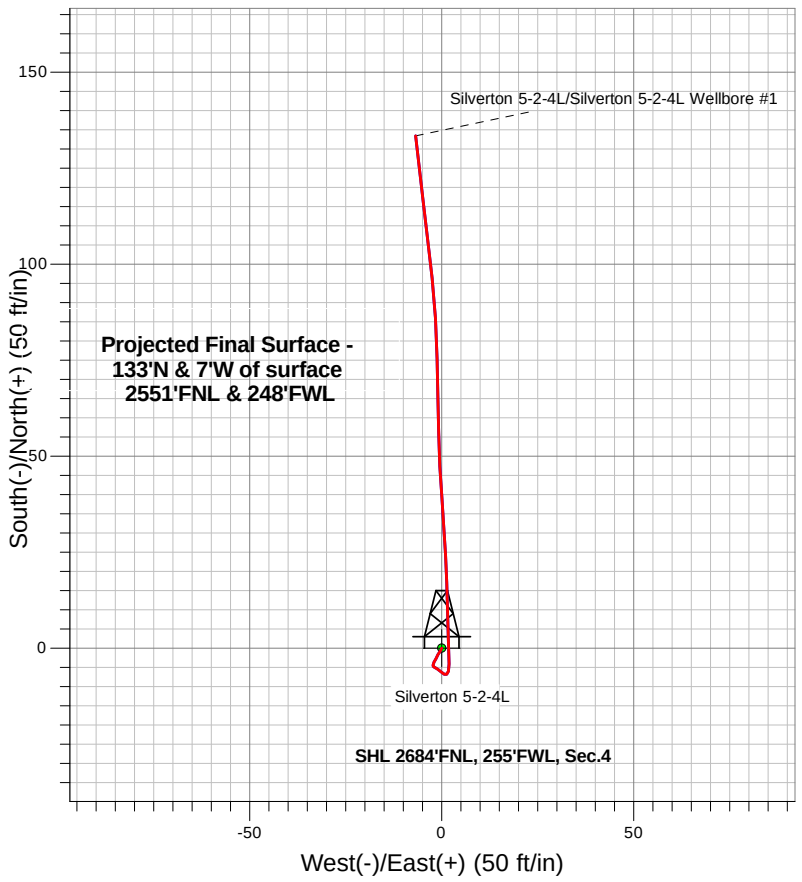
Surface Location: Silverton Pad Sec.4-T4N-R63W
North American Datum 1983 US State Plane 1983 Colorado Northern Zone
Ground Elevation: 4628.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1368911.44	3292261.27	40.341320	-104.451510	

WELL @ 4641.0ft

Confluence Resources





LEGEND

Silverton 5-2-4L Wellbore #1

Survey #1

Final Surface Survey Plot

Projected Final Surface Survey - 1592'MD & 1578' TVD @ 14.20 deg Inc 353.40 deg AZ

Project: SEC.4-T4N-R63W
Site: Silverton Pad Sec.4-T4N-R63W
Well: Silverton 5-2-4L
Plan: Silverton 5-2-4L Wellbore #1

Confluence Resources

SEC.4-T4N-R63W
Silverton Pad Sec.4-T4N-R63W
Silverton 5-2-4L

Silverton 5-2-4L Wellbore #1

Survey: Survey #1

Standard Survey Report

03 March, 2020

Company:	Confluence Resources	**Local Co-ordinate Reference:**	Well Silverton 5-2-4L
Project:	SEC.4-T4N-R63W	**TVD Reference:**	WELL @ 4641.0ft
Site:	Silverton Pad Sec.4-T4N-R63W	**MD Reference:**	WELL @ 4641.0ft
Well:	Silverton 5-2-4L	**North Reference:**	True
Wellbore:	Silverton 5-2-4L Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Silverton 5-2-4L Wellbore #1	**Database:**	US_EDM

Project SEC.4-T4N-R63W, 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 Silverton Pad Sec.4-T4N-R63W

Site Position:		**Northing:**	1,369,035.30 usft	**Latitude:**	40.341660
From:	Lat/Long	**Easting:**	3,292,259.81 usft	**Longitude:**	-104.451510
Position Uncertainty:	0.0 ft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.68 °

Well Silverton 5-2-4L

Well Position	**+N/-S**	0.0 ft	**Northing:**	1,368,911.44 usft	**Latitude:**	40.341320
	+E/-W	0.0 ft	**Easting:**	3,292,261.28 usft	**Longitude:**	-104.451510
Position Uncertainty		0.0 ft	**Wellhead Elevation:**	0.0 ft	**Ground Level:**	4,628.0 ft

Wellbore Silverton 5-2-4L Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	2/19/2020	7.98	66.85	52,090

Design Silverton 5-2-4L 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 (°)
	0.0	0.0	0.0	357.07

Survey Program **Date** 3/3/2020

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
100.0	1,592.0	Survey #1 (Silverton 5-2-4L 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 (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
145.0	1.40	211.50	145.0	-0.5	-0.3	-0.5	3.11	3.11	0.00
175.0	1.30	209.60	175.0	-1.1	-0.6	-1.0	0.37	-0.33	-6.33
204.0	1.30	208.40	204.0	-1.7	-1.0	-1.6	0.09	0.00	-4.14
265.0	1.00	207.50	265.0	-2.7	-1.5	-2.7	0.49	-0.49	-1.48
326.0	0.90	206.80	326.0	-3.6	-2.0	-3.5	0.17	-0.16	-1.15
371.0	0.70	193.10	371.0	-4.2	-2.2	-4.1	0.61	-0.44	-30.44
416.0	0.40	169.70	416.0	-4.6	-2.3	-4.5	0.82	-0.67	-52.00
461.0	0.50	123.80	461.0	-4.9	-2.1	-4.8	0.81	0.22	-102.00

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Site:	Silverton Pad Sec.4-T4N-R63W	**MD Reference:**	WELL @ 4641.0ft
Well:	Silverton 5-2-4L	**North Reference:**	True
Wellbore:	Silverton 5-2-4L Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Silverton 5-2-4L Wellbore #1	**Database:**	US_EDM

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
505.0	0.70	120.30	504.9	-5.1	-1.7	-5.1	0.46	0.45	-7.95
550.0	0.80	122.10	549.9	-5.5	-1.2	-5.4	0.23	0.22	4.00
595.0	0.90	125.90	594.9	-5.8	-0.6	-5.8	0.25	0.22	8.44
639.0	1.10	132.10	638.9	-6.3	0.0	-6.3	0.52	0.45	14.09
684.0	1.00	117.00	683.9	-6.8	0.6	-6.8	0.65	-0.22	-33.56
729.0	0.80	61.10	728.9	-6.8	1.3	-6.9	1.92	-0.44	-124.22
774.0	1.70	14.00	773.9	-6.0	1.7	-6.1	2.88	2.00	-104.67
818.0	3.30	0.80	817.9	-4.1	1.9	-4.2	3.84	3.64	-30.00
863.0	4.60	358.30	862.8	-1.0	1.8	-1.1	2.91	2.89	-5.56
908.0	5.50	357.30	907.6	3.0	1.7	2.9	2.01	2.00	-2.22
952.0	6.20	358.50	951.4	7.4	1.5	7.3	1.61	1.59	2.73
997.0	6.80	359.20	996.1	12.5	1.4	12.4	1.34	1.33	1.56
1,038.0	7.80	357.80	1,036.7	17.7	1.3	17.6	2.48	2.44	-3.41
1,083.0	8.90	356.90	1,081.3	24.3	1.0	24.2	2.46	2.44	-2.00
1,127.0	9.80	356.20	1,124.7	31.4	0.5	31.3	2.06	2.05	-1.59
1,172.0	10.50	355.90	1,169.0	39.3	0.0	39.3	1.56	1.56	-0.67
1,216.0	10.80	356.90	1,212.2	47.4	-0.5	47.4	0.80	0.68	2.27
1,261.0	11.70	358.80	1,256.3	56.2	-0.8	56.2	2.16	2.00	4.22
1,305.0	12.50	359.00	1,299.4	65.4	-1.0	65.4	1.82	1.82	0.45
1,350.0	13.10	358.50	1,343.2	75.4	-1.2	75.3	1.36	1.33	-1.11
1,395.0	13.90	356.90	1,387.0	85.9	-1.7	85.9	1.96	1.78	-3.56
1,439.0	13.80	353.40	1,429.7	96.4	-2.5	96.4	1.92	-0.23	-7.95
1,484.0	14.10	353.40	1,473.4	107.1	-3.8	107.2	0.67	0.67	0.00
1,522.0	14.20	353.40	1,510.2	116.4	-4.9	116.5	0.26	0.26	0.00
1,592.0	14.20	353.40	1,578.1	133.4	-6.8	133.6	0.00	0.00	0.00

Checked By: _____ Approved By: _____ Date: _____