

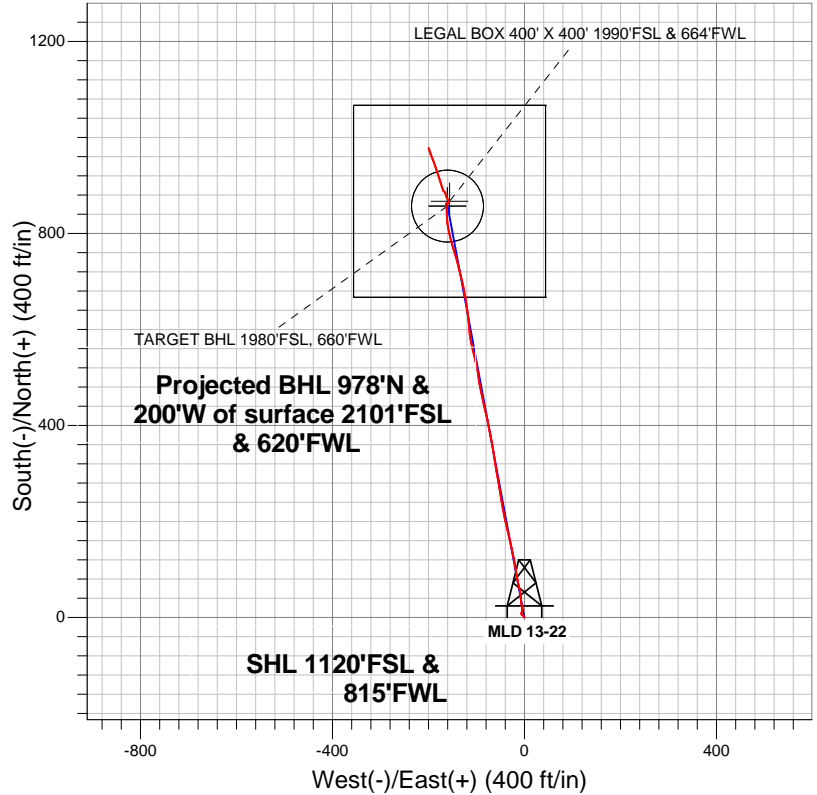


Well Name: MLD 13-22

Surface Location: HFE 14-22 Pad Sec.22-T4N-R68W
North American Datum 1983 US State Plane 1983Colorado Northern Zone
Ground Elevation: 4920.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1350597.57	3140631.41	40.294693	-104.995839	
Original Well Elev			WELL @ 4933.0ft (Original Well Elev)			

Sundance Energy, Weld County, CO

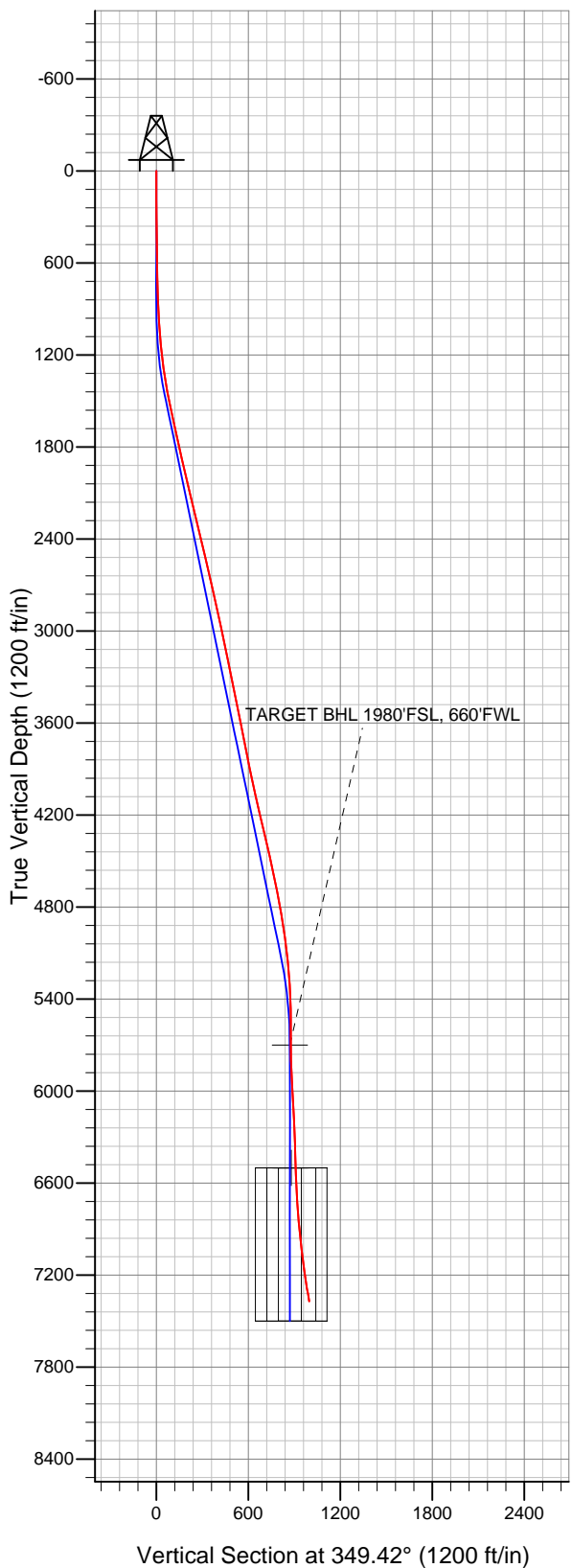


- LEGEND
- Wellbore #1
 - MLD 13-22, Wellbore #1, Plan #1 (6-12-12) R V0
 - Survey #1

Final Survey Plot

Projected Final Survey -
7465'MD & 7370'TVD @ 998'VS
10.10 deg Inc 340.00 deg AZ

Project: SEC.22-T4N-R68W
Site: HFE 14-22 Pad Sec.22-T4N-R68W
Well: MLD 13-22
Plan: Wellbore #1





Sundance Energy, Weld County, CO

SEC.22-T4N-R68W

HFE 14-22 Pad Sec.22-T4N-R68W

MLD 13-22

Wellbore #1

Survey: Survey #1

Standard Survey Report

26 June, 2012

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
66.0	0.20	1.30	66.0	0.1	0.0	0.1	0.30	0.30	0.00
189.0	0.40	300.00	189.0	0.5	-0.4	0.6	0.29	0.16	-49.84
312.0	0.70	335.60	312.0	1.4	-1.0	1.6	0.36	0.24	28.94
433.0	0.90	317.20	433.0	2.8	-2.0	3.1	0.27	0.17	-15.21
560.0	1.30	294.90	560.0	4.2	-4.0	4.8	0.46	0.31	-17.56
643.0	1.70	318.80	642.9	5.5	-5.6	6.4	0.88	0.48	28.80
768.0	1.40	28.00	767.9	8.2	-6.2	9.2	1.42	-0.24	55.36
893.0	2.22	15.20	892.8	11.9	-4.8	12.6	0.73	0.66	-10.24
1,017.0	4.50	352.50	1,016.6	19.0	-4.8	19.6	2.09	1.84	-18.31
1,142.0	5.70	353.20	1,141.1	30.1	-6.2	30.7	0.96	0.96	0.56
1,267.0	7.50	354.30	1,265.3	44.4	-7.7	45.0	1.44	1.44	0.88
1,392.0	9.80	346.40	1,388.9	62.8	-11.0	63.8	2.07	1.84	-6.32

Company:	Sundance Energy, Weld County, CO	Local Co-ordinate Reference:	Well MLD 13-22
Project:	SEC.22-T4N-R68W	TVD Reference:	WELL @ 4933.0ft (Original Well Elev)
Site:	HFE 14-22 Pad Sec.22-T4N-R68W	MD Reference:	WELL @ 4933.0ft (Original Well Elev)
Well:	MLD 13-22	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)	
1,516.0	11.60	349.90	1,510.7	85.3	-15.7	86.8	1.54	1.45	2.82	
1,641.0	12.40	351.50	1,633.0	111.0	-19.9	112.8	0.69	0.64	1.28	
1,766.0	12.70	346.90	1,755.0	137.7	-25.0	139.9	0.83	0.24	-3.68	
1,891.0	12.60	346.70	1,876.9	164.3	-31.2	167.2	0.09	-0.08	-0.16	
2,016.0	12.90	346.40	1,998.9	191.1	-37.7	194.8	0.25	0.24	-0.24	
2,140.0	13.80	350.60	2,119.5	219.2	-43.3	223.4	1.07	0.73	3.39	
2,265.0	13.60	350.10	2,241.0	248.4	-48.3	253.0	0.19	-0.16	-0.40	
2,390.0	13.50	349.40	2,362.5	277.2	-53.5	282.3	0.15	-0.08	-0.56	
2,515.0	13.50	350.90	2,484.0	305.9	-58.5	311.5	0.28	0.00	1.20	
2,639.0	12.70	351.50	2,604.8	333.7	-62.8	339.6	0.65	-0.65	0.48	
2,764.0	13.00	350.60	2,726.7	361.2	-67.1	367.3	0.29	0.24	-0.72	
2,889.0	12.40	348.30	2,848.6	388.2	-72.1	394.8	0.63	-0.48	-1.84	
3,014.0	12.60	346.90	2,970.6	414.6	-78.0	421.9	0.29	0.16	-1.12	
3,138.0	12.00	347.80	3,091.8	440.4	-83.7	448.3	0.51	-0.48	0.73	
3,263.0	11.10	346.90	3,214.3	464.8	-89.2	473.3	0.73	-0.72	-0.72	
3,388.0	11.20	351.50	3,336.9	488.5	-93.7	497.4	0.72	0.08	3.68	
3,513.0	11.40	350.20	3,459.5	512.7	-97.6	521.9	0.26	0.16	-1.04	
3,637.0	11.60	347.20	3,581.0	536.9	-102.5	546.6	0.51	0.16	-2.42	
3,762.0	11.10	345.80	3,703.6	560.9	-108.2	571.2	0.46	-0.40	-1.12	
3,887.0	11.00	351.60	3,826.2	584.3	-112.9	595.1	0.89	-0.08	4.64	
4,012.0	12.40	356.20	3,948.6	609.5	-115.5	620.4	1.35	1.12	3.68	
4,136.0	12.90	352.50	4,069.6	636.5	-118.2	647.4	0.77	0.40	-2.98	
4,261.0	12.80	349.90	4,191.5	664.0	-122.5	675.2	0.47	-0.08	-2.08	
4,386.0	13.10	348.50	4,313.3	691.5	-127.7	703.2	0.35	0.24	-1.12	
4,511.0	13.20	345.50	4,435.1	719.2	-134.1	731.6	0.55	0.08	-2.40	
4,635.0	12.00	345.00	4,556.1	745.4	-141.0	758.6	0.97	-0.97	-0.40	
4,760.0	11.40	342.30	4,678.5	769.7	-148.1	783.8	0.65	-0.48	-2.16	
4,885.0	10.70	346.00	4,801.2	792.7	-154.7	807.6	0.80	-0.56	2.96	
5,010.0	8.90	350.80	4,924.3	813.5	-159.1	828.9	1.58	-1.44	3.84	
5,135.0	7.10	356.60	5,048.1	830.8	-161.1	846.2	1.58	-1.44	4.64	
5,259.0	5.50	358.10	5,171.4	844.4	-161.7	859.7	1.30	-1.29	1.21	
5,384.0	3.50	353.00	5,296.0	854.1	-162.4	869.4	1.63	-1.60	-4.08	
5,509.0	1.80	354.80	5,420.8	859.9	-163.0	875.2	1.36	-1.36	1.44	
5,634.0	0.80	54.90	5,545.8	862.3	-162.5	877.5	1.25	-0.80	48.08	
5,758.0	1.80	108.00	5,669.8	862.2	-159.9	876.9	1.18	0.81	42.82	
5,788.2	1.47	86.79	5,699.9	862.1	-159.1	876.7	2.27	-1.10	-70.34	
TARGET BHL 1980'FSL, 660'FWL										
5,883.0	2.20	18.20	5,794.7	863.9	-157.3	878.1	2.27	0.77	-72.32	
6,008.0	3.70	326.90	5,919.6	869.6	-158.8	883.9	2.31	1.20	-41.04	
6,133.0	3.50	336.90	6,044.3	876.4	-162.5	891.4	0.53	-0.16	8.00	
6,257.0	2.60	352.00	6,168.1	882.7	-164.3	897.9	0.97	-0.73	12.18	
6,382.0	2.20	304.70	6,293.0	886.9	-166.7	902.4	1.57	-0.32	-37.84	
6,507.0	2.10	337.90	6,418.0	890.4	-169.5	906.4	0.99	-0.08	26.56	
6,587.7	2.23	339.90	6,498.6	893.2	-170.6	909.4	0.18	0.16	2.48	
TARGET CIRCLE 1980'FSL & 660'FWL										
6,588.0	2.23	339.90	6,498.9	893.2	-170.6	909.4	0.18	0.16	2.33	
LEGAL BOX 400' X 400' 1990'FSL & 664'FWL										
6,632.0	2.30	340.90	6,542.9	894.9	-171.2	911.1	0.18	0.16	2.26	
6,756.0	3.10	344.10	6,666.7	900.4	-172.9	916.9	0.66	0.65	2.58	
6,881.0	3.90	343.56	6,791.5	907.8	-175.1	924.5	0.64	0.64	-0.43	
7,006.0	6.00	342.50	6,916.0	918.1	-178.2	935.2	1.68	1.68	-0.85	
7,131.0	6.70	341.40	7,040.3	931.2	-182.5	948.9	0.57	0.56	-0.88	
7,255.0	8.00	339.20	7,163.2	946.1	-187.9	964.6	1.07	1.05	-1.77	
7,380.0	9.60	339.90	7,286.8	964.1	-194.6	983.4	1.28	1.28	0.56	

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7,419.0	10.10	340.00	7,325.2	970.3	-196.9	990.0	1.28	1.28	0.26
7,465.0	10.10	340.00	7,370.5	977.9	-199.6	997.9	0.00	0.00	0.00

Checked By: _____	Approved By: _____	Date: _____
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