ENSIGN Directional

Well Name: **Schell 41-6**

Surface Location: Schell 41-6 Pad Sec.6-T3N-R67W

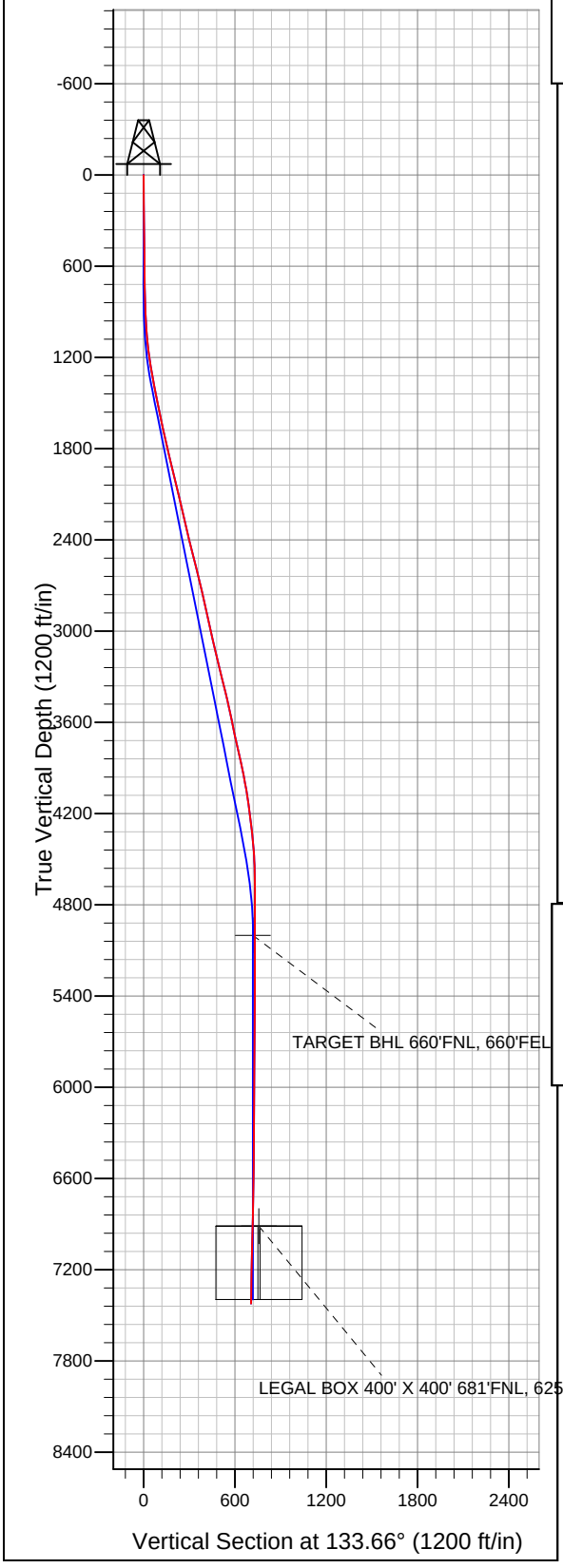
North American Datum 1983 US State Plane 1983 Colorado Northern Zone

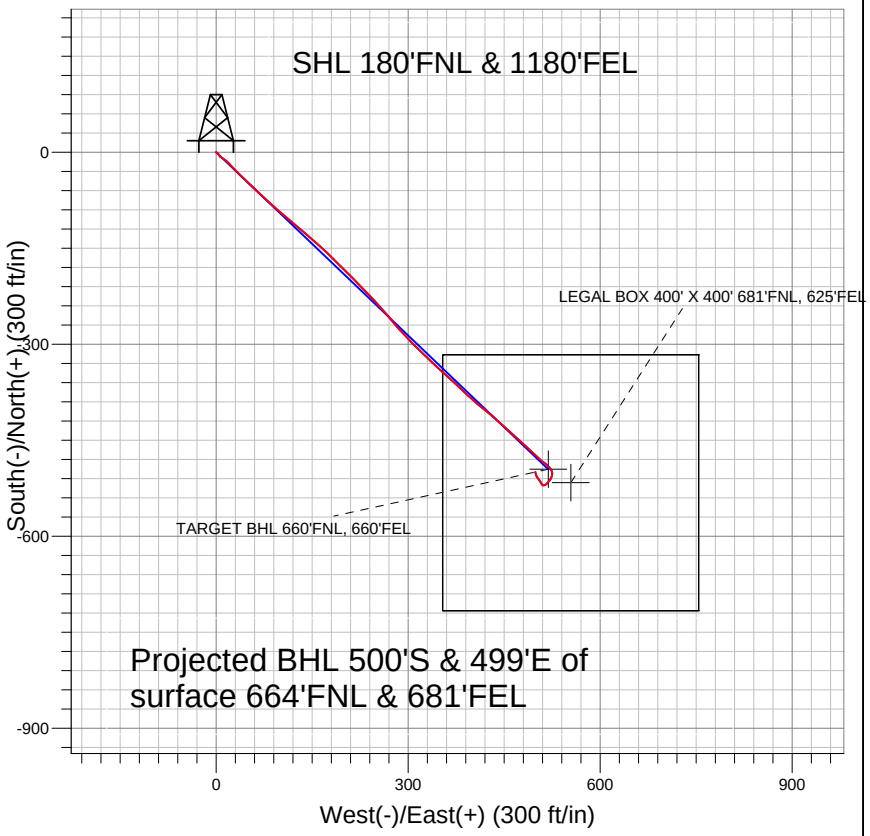
Ground Elevation: 4916.0

+N/-S	+E/-W	Northing	Easting	Latittude	Longitude	Slot
0.0	0.0	1338862.07	3159756.31	40.262160	-104.927550	

Original Well Elev WELL @ 4929.0ft (Original Well Elev)

Sundance Energy, Weld County, CO





L E G E N D

- Schell 41-6, Wellbore #1, Plan #3 (4-19-11) V0
- Wellbore #1
- Survey #1

Final Survey Plot

Projected Final Survey -
7500'MD & 7423'TVD @ 706'VS
1.0 deg Inc 346.8 deg AZ

Project: SEC.6-T3N-R67W
Site: Schell 41-6 Pad Sec.6-T3N-R67W
Well: Schell 41-6
Plan: Wellbore #1

ENSIGN Directional

Sundance Energy, Weld County, CO

SEC.6-T3N-R67W
Schell 41-6 Pad Sec.6-T3N-R67W
Schell 41-6

Wellbore #1

Survey: Survey #1

Standard Survey Report

31 May, 2011

ENSIGN Directional

Survey Report

Company:	Sundance Energy, Weld County, CO	**Local Co-ordinate Reference:**	Well Schell 41-6
Project:	SEC.6-T3N-R67W	**TVD Reference:**	WELL @ 4929.0ft (Original Well Elev)
Site:	Schell 41-6 Pad Sec.6-T3N-R67W	**MD Reference:**	WELL @ 4929.0ft (Original Well Elev)
Well:	Schell 41-6	**North Reference:**	True
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Wellbore #1	**Database:**	Landmark

Project SEC.6-T3N-R67W, Weld County, Colorado

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 Schell 41-6 Pad Sec.6-T3N-R67W

Site Position:		**Northing:**	1,338,862.08 ft	**Latitude:**	40.262160
From:	Lat/Long	**Easting:**	3,159,756.31 ft	**Longitude:**	-104.927550
Position Uncertainty:	0.0 ft	**Slot Radius:**	"	**Grid Convergence:**	0.37 °

Well Schell 41-6

Well Position	**+N/-S**	0.0 ft	**Northing:**	1,338,862.07 ft	**Latitude:**	40.262160
	+E/-W	0.0 ft	**Easting:**	3,159,756.31 ft	**Longitude:**	-104.927550
Position Uncertainty		0.0 ft	**Wellhead Elevation:**	ft	**Ground Level:**	4,916.0 ft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	4/19/2011	8.96	66.92	53,057

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 (°)
	0.0	0.0	0.0	133.66

Survey Program **Date** 5/31/2011

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
185.0	7,500.0	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
185.0	0.40	123.00	185.0	-0.4	0.5	0.6	0.22	0.22	0.00
369.0	0.90	134.00	369.0	-1.7	2.1	2.7	0.28	0.27	5.98
559.0	0.70	137.30	559.0	-3.6	4.0	5.4	0.11	-0.11	1.74
632.0	0.70	140.40	632.0	-4.3	4.6	6.2	0.05	0.00	4.25
742.0	0.80	168.00	742.0	-5.5	5.2	7.6	0.34	0.09	25.09
836.0	1.60	119.90	835.9	-6.8	6.4	9.4	1.30	0.85	-51.17
930.0	2.40	125.10	929.9	-8.6	9.2	12.6	0.87	0.85	5.53
1,023.0	4.20	125.90	1,022.7	-11.7	13.5	17.9	1.94	1.94	0.86
1,117.0	6.40	134.80	1,116.3	-17.4	20.0	26.5	2.49	2.34	9.47
1,211.0	8.50	138.20	1,209.5	-26.3	28.4	38.7	2.28	2.23	3.62
1,305.0	9.80	133.80	1,302.3	-37.0	38.8	53.6	1.57	1.38	-4.68
1,399.0	10.70	133.90	1,394.8	-48.6	50.9	70.4	0.96	0.96	0.11

Company:	Sundance Energy, Weld County, CO	**Local Co-ordinate Reference:**	Well Schell 41-6
Project:	SEC.6-T3N-R67W	**TVD Reference:**	WELL @ 4929.0ft (Original Well Elev)
Site:	Schell 41-6 Pad Sec.6-T3N-R67W	**MD Reference:**	WELL @ 4929.0ft (Original Well Elev)
Well:	Schell 41-6	**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)
1,492.0	11.70	132.50	1,486.0	-61.0	64.0	88.4	1.11	1.08	-1.51
1,586.0	12.00	132.80	1,578.0	-74.1	78.2	107.7	0.33	0.32	0.32
1,679.0	12.40	131.70	1,668.9	-87.3	92.8	127.4	0.50	0.43	-1.18
1,773.0	13.00	129.70	1,760.6	-100.7	108.4	148.0	0.79	0.64	-2.13
1,868.0	13.00	130.20	1,853.2	-114.5	124.8	169.3	0.12	0.00	0.53
1,962.0	13.80	130.60	1,944.6	-128.6	141.4	191.1	0.86	0.85	0.43
2,055.0	13.60	131.80	2,035.0	-143.1	158.0	213.1	0.37	-0.22	1.29
2,149.0	13.20	133.20	2,126.4	-157.8	174.0	234.9	0.55	-0.43	1.49
2,243.0	12.90	136.10	2,218.0	-172.7	189.1	256.1	0.77	-0.32	3.09
2,337.0	13.00	135.10	2,309.6	-187.8	203.9	277.1	0.26	0.11	-1.06
2,430.0	13.70	133.40	2,400.1	-202.7	219.3	298.6	0.86	0.75	-1.83
2,524.0	14.20	136.80	2,491.3	-218.8	235.3	321.2	1.02	0.53	3.62
2,617.0	14.20	138.40	2,581.5	-235.6	250.6	344.0	0.42	0.00	1.72
2,711.0	13.60	140.10	2,672.7	-252.7	265.4	366.5	0.77	-0.64	1.81
2,805.0	13.50	139.00	2,764.1	-269.5	279.7	388.4	0.29	-0.11	-1.17
2,899.0	12.50	135.80	2,855.7	-285.1	294.0	409.5	1.31	-1.06	-3.40
2,992.0	12.10	136.40	2,946.6	-299.3	307.7	429.3	0.45	-0.43	0.65
3,086.0	12.70	132.90	3,038.4	-313.5	322.1	449.4	1.02	0.64	-3.72
3,180.0	13.40	134.60	3,130.0	-328.2	337.4	470.7	0.85	0.74	1.81
3,274.0	13.60	131.20	3,221.4	-343.1	353.5	492.6	0.87	0.21	-3.62
3,368.0	13.90	133.30	3,312.7	-358.1	370.0	514.9	0.62	0.32	2.23
3,461.0	13.80	132.80	3,403.0	-373.3	386.3	537.2	0.17	-0.11	-0.54
3,555.0	12.70	131.90	3,494.5	-387.9	402.2	558.7	1.19	-1.17	-0.96
3,648.0	11.00	128.20	3,585.5	-400.2	416.8	577.8	2.00	-1.83	-3.98
3,742.0	12.80	131.00	3,677.5	-412.5	431.7	597.1	2.01	1.91	2.98
3,836.0	12.70	131.60	3,769.1	-426.2	447.2	617.8	0.18	-0.11	0.64
3,930.0	12.40	131.70	3,860.9	-439.8	462.5	638.2	0.32	-0.32	0.11
4,023.0	11.10	133.70	3,951.9	-452.6	476.4	657.2	1.46	-1.40	2.15
4,117.0	9.50	132.40	4,044.4	-464.1	488.7	674.0	1.72	-1.70	-1.38
4,211.0	8.40	131.40	4,137.3	-473.9	499.6	688.6	1.18	-1.17	-1.06
4,305.0	7.10	132.10	4,230.4	-482.3	509.0	701.3	1.39	-1.38	0.74
4,398.0	6.00	127.30	4,322.8	-489.1	517.2	711.8	1.32	-1.18	-5.16
4,492.0	5.40	150.60	4,416.4	-496.0	523.3	721.0	2.52	-0.64	24.79
4,586.0	4.30	184.10	4,510.0	-503.3	525.2	727.4	3.18	-1.17	35.64
4,680.0	2.90	213.00	4,603.9	-508.8	523.6	730.1	2.39	-1.49	30.74
4,868.0	1.20	221.50	4,791.7	-514.3	519.7	731.1	0.92	-0.90	4.52
5,055.0	0.80	228.00	4,978.7	-516.6	517.5	731.0	0.22	-0.21	3.48
5,076.1	0.80	226.81	4,999.8	-516.8	517.3	731.0	0.08	-0.01	-5.67
TARGET BHL 660'FNL, 660'FEL									
5,243.0	0.80	217.30	5,166.7	-518.6	515.7	731.1	0.08	0.00	-5.69
5,430.0	0.60	255.00	5,353.7	-519.9	514.0	730.7	0.26	-0.11	20.16
5,618.0	0.70	249.70	5,541.7	-520.5	511.9	729.7	0.06	0.05	-2.82
5,806.0	0.40	324.80	5,729.7	-520.4	510.5	728.6	0.38	-0.16	39.95
5,994.0	0.50	306.60	5,917.6	-519.4	509.4	727.1	0.09	0.05	-9.68
6,181.0	0.20	340.30	6,104.6	-518.6	508.7	726.0	0.19	-0.16	18.02
6,368.0	0.40	324.50	6,291.6	-517.7	508.2	725.1	0.11	0.11	-8.45
6,555.0	0.80	336.40	6,478.6	-516.0	507.3	723.2	0.22	0.21	6.36
6,743.0	0.90	330.60	6,666.6	-513.5	506.0	720.6	0.07	0.05	-3.09
6,931.0	1.40	311.70	6,854.6	-510.7	503.6	716.9	0.33	0.27	-10.05
6,988.6	1.33	319.97	6,912.2	-509.7	502.6	715.5	0.36	-0.11	14.34
LEGAL BOX 400' X 400' 681'FNL, 625'FEL									
7,118.0	1.30	340.30	7,041.5	-507.2	501.2	712.7	0.36	-0.03	15.72
7,306.0	1.30	338.50	7,229.5	-503.2	499.7	708.9	0.02	0.00	-0.96
7,456.0	1.00	346.80	7,379.4	-500.3	498.8	706.2	0.23	-0.20	5.53

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Well:	Schell 41-6	**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)
7,500.0	1.00	346.80	7,423.4	-499.6	498.6	705.6	0.00	0.00	0.00

Checked By: _____ Approved By: _____ Date: _____