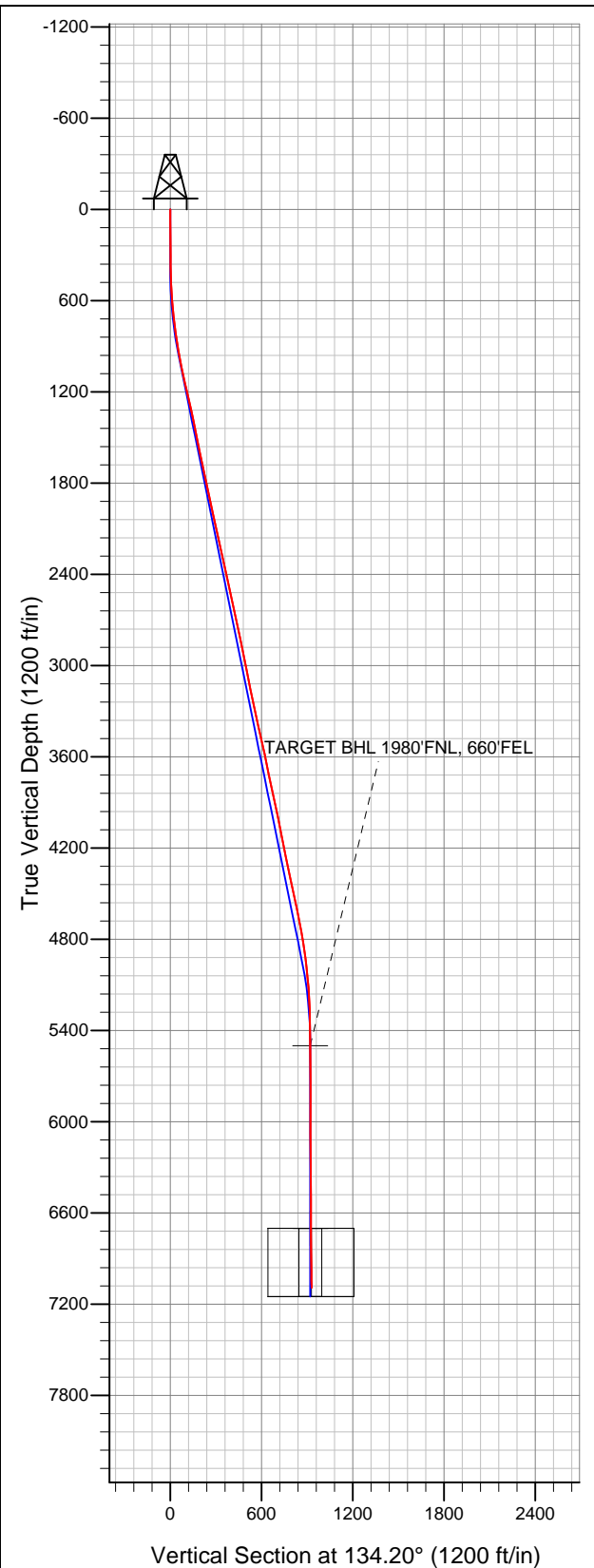


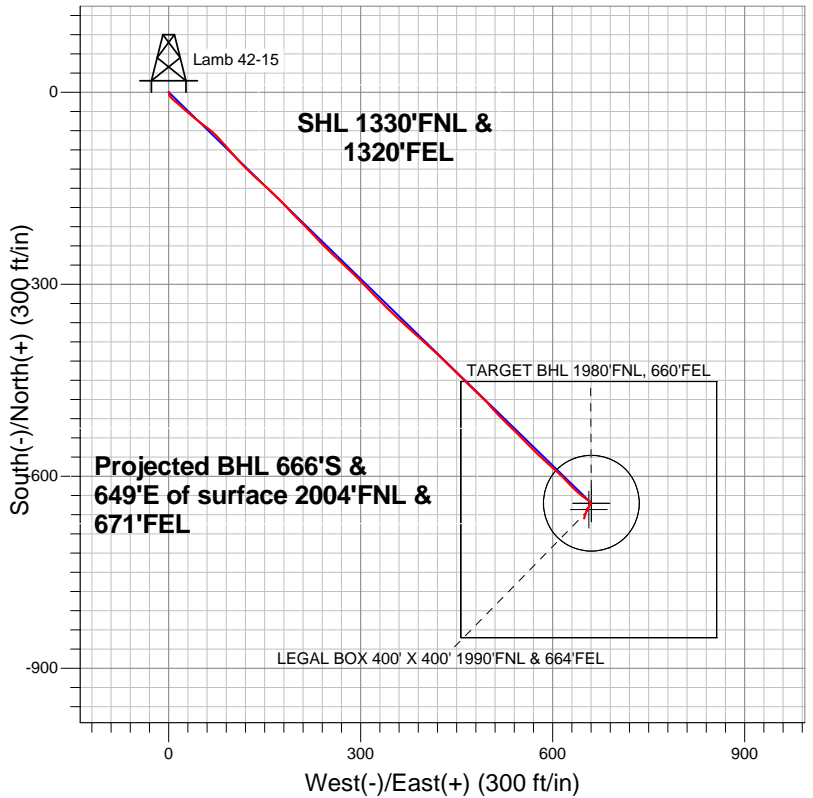
**Well Name: Lamb 42-15**

Surface Location: Lamb 5 Pad Sec.15-T4N-R68W  
North American Datum 1983 US State Plane 1983Colorado Northern Zone  
Ground Elevation: 4941.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1358815.79	3143747.46	40.317203	-104.984497	
Original Well Elev			WELL @ 4954.0ft (Original Well Elev)			



**Sundance Energy, Weld County, CO**



- LEGEND**
- Wellbore #1
  - Lamb 42-15, Wellbore #1, Plan #2 (5-14-12) V0
  - Survey #1

**Final Survey Plot**

Projected Final Survey -  
7183'MD & 7091'TVD @ 930'VS  
1.60 deg Inc 204.10 deg AZ

Project: SEC.15-T4N-R68W  
Site: Lamb 5 Pad Sec.15-T4N-R68W  
Well: Lamb 42-15  
Plan: Wellbore #1



# **Sundance Energy, Weld County, CO**

**SEC.15-T4N-R68W**

**Lamb 5 Pad Sec.15-T4N-R68W**

**Lamb 42-15**

**Wellbore #1**

**Survey: Survey #1**

## **Standard Survey Report**

**05 June, 2012**

<b>Company:</b>	Sundance Energy, Weld County, CO	<b>Local Co-ordinate Reference:</b>	Well Lamb 42-15
<b>Project:</b>	SEC.15-T4N-R68W	<b>TVD Reference:</b>	WELL @ 4954.0ft (Original Well Elev)
<b>Site:</b>	Lamb 5 Pad Sec.15-T4N-R68W	<b>MD Reference:</b>	WELL @ 4954.0ft (Original Well Elev)
<b>Well:</b>	Lamb 42-15	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	Landmark

<b>Project</b>	SEC.15-T4N-R68W, Weld County, Colorado		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		Using Well Reference Point
<b>Map Zone:</b>	Colorado Northern Zone		Using geodetic scale factor

Site		Lamb 5 Pad Sec.15-T4N-R68W			
Site Position:		Northing:		1,358,846.03ft	
From:	Lat/Long	Easting:		Longitude:	
		3,143,747.29ft		-104.984497	
Position Uncertainty:		Slot Radius:		Grid Convergence:	
0.0 ft		"		0.33 °	

Well	Lamb 42-15					
Well Position	+N-S	0.0 ft	Northing:	1,358,815.79 ft	Latitude:	40.317203
	+E-W	0.0 ft	Easting:	3,143,747.46 ft	Longitude:	-104.984497
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,941.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/14/2012	8.85	66.92	52,967

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	134.20	

Survey Program		Date	6/5/2012		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
67.0	7,183.0	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
67.0	0.50	157.90	67.0	-0.3	0.1	0.3	0.75	0.75	0.00
190.0	0.50	140.50	190.0	-1.2	0.7	1.3	0.12	0.00	-14.15
312.0	1.10	195.20	312.0	-2.7	0.7	2.4	0.74	0.49	44.84
434.0	1.50	153.20	434.0	-5.3	1.1	4.5	0.82	0.33	-34.43
586.0	3.90	132.10	585.8	-10.5	5.8	11.5	1.68	1.58	-13.88
710.0	6.30	130.10	709.3	-17.7	14.2	22.5	1.94	1.94	-1.61
835.0	8.80	133.00	833.2	-28.7	26.4	38.9	2.02	2.00	2.32
960.0	10.30	127.20	956.5	-42.0	42.3	59.6	1.42	1.20	-4.64
1,085.0	12.00	128.00	1,079.1	-56.7	61.4	83.6	1.37	1.36	0.64
1,209.0	13.20	138.00	1,200.1	-75.2	81.1	110.5	2.00	0.97	8.06
1,334.0	12.60	139.10	1,322.0	-96.1	99.6	138.4	0.52	-0.48	0.88
1,459.0	11.30	135.60	1,444.2	-115.1	117.1	164.2	1.19	-1.04	-2.80

<b>Company:</b>	Sundance Energy, Weld County, CO	<b>Local Co-ordinate Reference:</b>	Well Lamb 42-15
<b>Project:</b>	SEC.15-T4N-R68W	<b>TVD Reference:</b>	WELL @ 4954.0ft (Original Well Elev)
<b>Site:</b>	Lamb 5 Pad Sec.15-T4N-R68W	<b>MD Reference:</b>	WELL @ 4954.0ft (Original Well Elev)
<b>Well:</b>	Lamb 42-15	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	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)	
1,584.0	11.60	132.60	1,566.8	-132.4	134.9	189.0	0.53	0.24	-2.40	
1,708.0	12.10	131.90	1,688.1	-149.5	153.7	214.4	0.42	0.40	-0.56	
1,833.0	11.60	135.20	1,810.5	-167.2	172.3	240.1	0.67	-0.40	2.64	
1,958.0	12.40	137.20	1,932.7	-185.9	190.3	266.1	0.72	0.64	1.60	
2,083.0	11.70	134.90	2,055.0	-204.7	208.4	292.1	0.68	-0.56	-1.84	
2,208.0	13.40	135.90	2,177.0	-224.1	227.5	319.3	1.37	1.36	0.80	
2,332.0	12.70	136.30	2,297.8	-244.3	246.9	347.3	0.57	-0.56	0.32	
2,457.0	11.40	131.00	2,420.0	-262.3	265.7	373.3	1.36	-1.04	-4.24	
2,582.0	13.20	134.90	2,542.2	-280.5	285.1	400.0	1.59	1.44	3.12	
2,707.0	11.90	135.80	2,664.2	-299.8	304.2	427.1	1.05	-1.04	0.72	
2,831.0	12.00	135.10	2,785.5	-318.1	322.2	452.8	0.14	0.08	-0.56	
2,956.0	11.40	135.10	2,907.9	-336.0	340.1	478.1	0.48	-0.48	0.00	
3,081.0	11.30	132.80	3,030.4	-353.1	357.8	502.7	0.37	-0.08	-1.84	
3,206.0	11.30	132.40	3,153.0	-369.7	375.9	527.2	0.06	0.00	-0.32	
3,330.0	12.00	130.70	3,274.5	-386.3	394.6	552.2	0.63	0.56	-1.37	
3,455.0	12.80	133.80	3,396.5	-404.4	414.5	579.0	0.83	0.64	2.48	
3,580.0	12.70	133.70	3,518.5	-423.4	434.4	606.6	0.08	-0.08	-0.08	
3,705.0	11.40	135.10	3,640.7	-441.7	453.0	632.7	1.07	-1.04	1.12	
3,829.0	11.90	133.00	3,762.1	-459.1	471.0	657.7	0.53	0.40	-1.69	
3,954.0	12.00	134.40	3,884.4	-477.0	489.7	683.6	0.25	0.08	1.12	
4,079.0	12.40	139.30	4,006.6	-496.2	507.8	710.0	0.89	0.32	3.92	
4,204.0	10.60	132.80	4,129.1	-514.2	525.0	734.8	1.77	-1.44	-5.20	
4,328.0	11.90	135.10	4,250.7	-531.0	542.4	759.0	1.11	1.05	1.85	
4,453.0	11.60	135.90	4,373.1	-549.2	560.2	784.5	0.27	-0.24	0.64	
4,578.0	12.20	133.70	4,495.4	-567.3	578.5	810.3	0.60	0.48	-1.76	
4,703.0	12.00	131.20	4,617.6	-585.0	597.8	836.4	0.45	-0.16	-2.00	
4,827.0	10.50	134.70	4,739.3	-601.4	615.6	860.6	1.33	-1.21	2.82	
4,952.0	8.00	137.30	4,862.6	-615.9	629.6	880.7	2.03	-2.00	2.08	
5,077.0	6.50	131.20	4,986.6	-626.9	640.8	896.4	1.35	-1.20	-4.88	
5,202.0	4.80	123.10	5,111.0	-634.4	650.5	908.6	1.50	-1.36	-6.48	
5,327.0	2.20	124.70	5,235.8	-638.6	656.8	916.1	2.08	-2.08	1.28	
5,451.0	1.30	173.00	5,359.7	-641.4	659.0	919.6	1.33	-0.73	38.95	
5,576.0	0.90	198.50	5,484.7	-643.7	658.8	921.1	0.50	-0.32	20.40	
5,591.3	0.96	201.36	5,500.0	-644.0	658.7	921.2	0.47	0.36	18.74	
TARGET BHL 1980'FNL, 660'FEL										
5,701.0	1.40	214.70	5,609.7	-645.9	657.6	921.8	0.47	0.41	12.16	
5,826.0	1.80	211.40	5,734.6	-648.9	655.8	922.5	0.33	0.32	-2.64	
5,950.0	1.00	203.80	5,858.6	-651.5	654.3	923.3	0.66	-0.65	-6.13	
6,075.0	0.80	20.80	5,983.6	-651.7	654.2	923.3	1.44	-0.16	141.60	
6,200.0	0.10	259.00	6,108.6	-650.9	654.4	922.9	0.69	-0.56	-97.44	
6,325.0	0.80	204.10	6,233.6	-651.7	653.9	923.1	0.60	0.56	-43.92	
6,449.0	1.20	199.70	6,357.5	-653.7	653.1	924.0	0.33	0.32	-3.55	
6,574.0	1.00	203.30	6,482.5	-656.0	652.3	924.9	0.17	-0.16	2.88	
6,699.0	0.20	29.80	6,607.5	-656.8	651.9	925.3	0.96	-0.64	-138.80	
6,792.4	0.47	196.20	6,700.9	-657.0	651.9	925.4	0.72	0.29	178.11	
TARGET CIRCLE 1980'FNL, 660'FEL - LEGAL BOX 400' X 400' 1990'FNL & 664'FEL										
6,824.0	0.70	197.50	6,732.5	-657.3	651.8	925.5	0.72	0.72	4.12	
6,948.0	1.60	194.30	6,856.5	-659.7	651.2	926.7	0.73	0.73	-2.58	
7,073.0	1.60	195.40	6,981.4	-663.1	650.3	928.5	0.02	0.00	0.88	
7,137.0	1.60	204.10	7,045.4	-664.8	649.7	929.2	0.38	0.00	13.59	
7,183.0	1.60	204.10	7,091.4	-665.9	649.1	929.6	0.00	0.00	0.00	

<b>Company:</b>	Sundance Energy, Weld County, CO	<b>Local Co-ordinate Reference:</b>	Well Lamb 42-15
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<b>Well:</b>	Lamb 42-15	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	Landmark

Checked By: _____	Approved By: _____	Date: _____
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