

Jackson County, CO
Section 35-R8N-T78W
Silver Spur Mineral 35-2

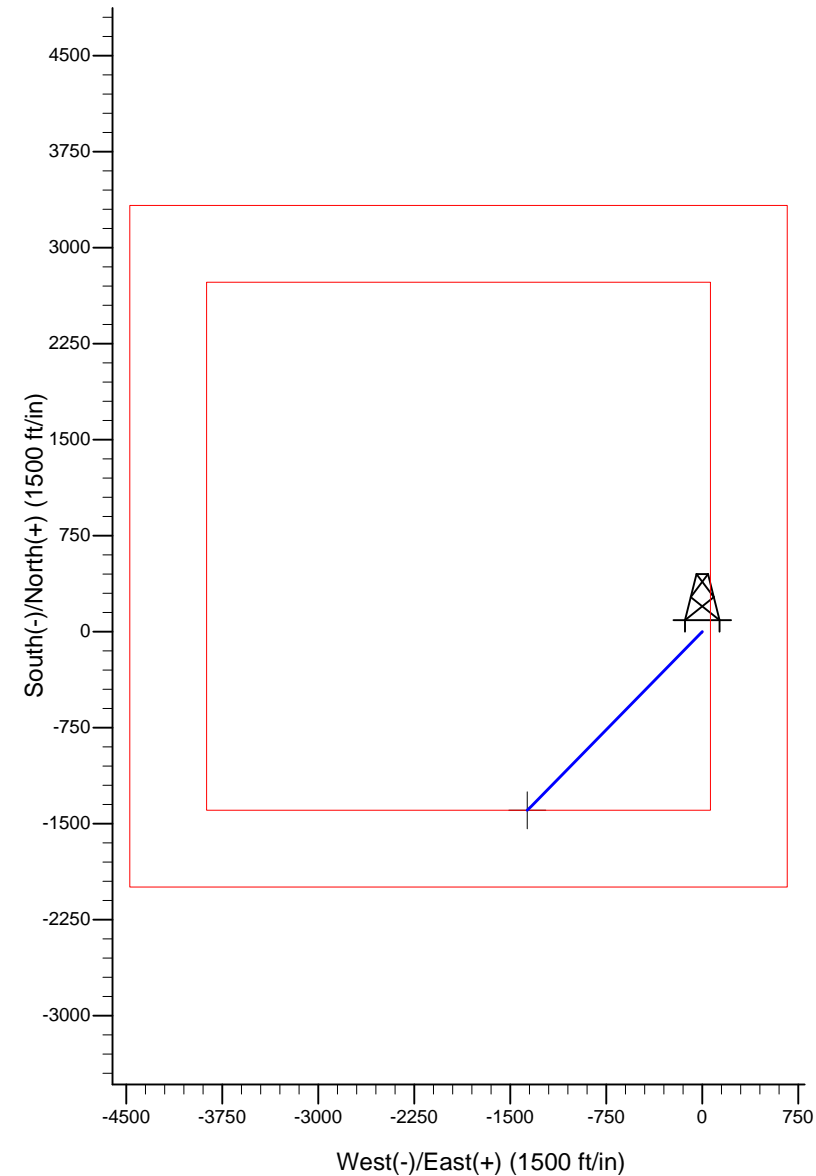
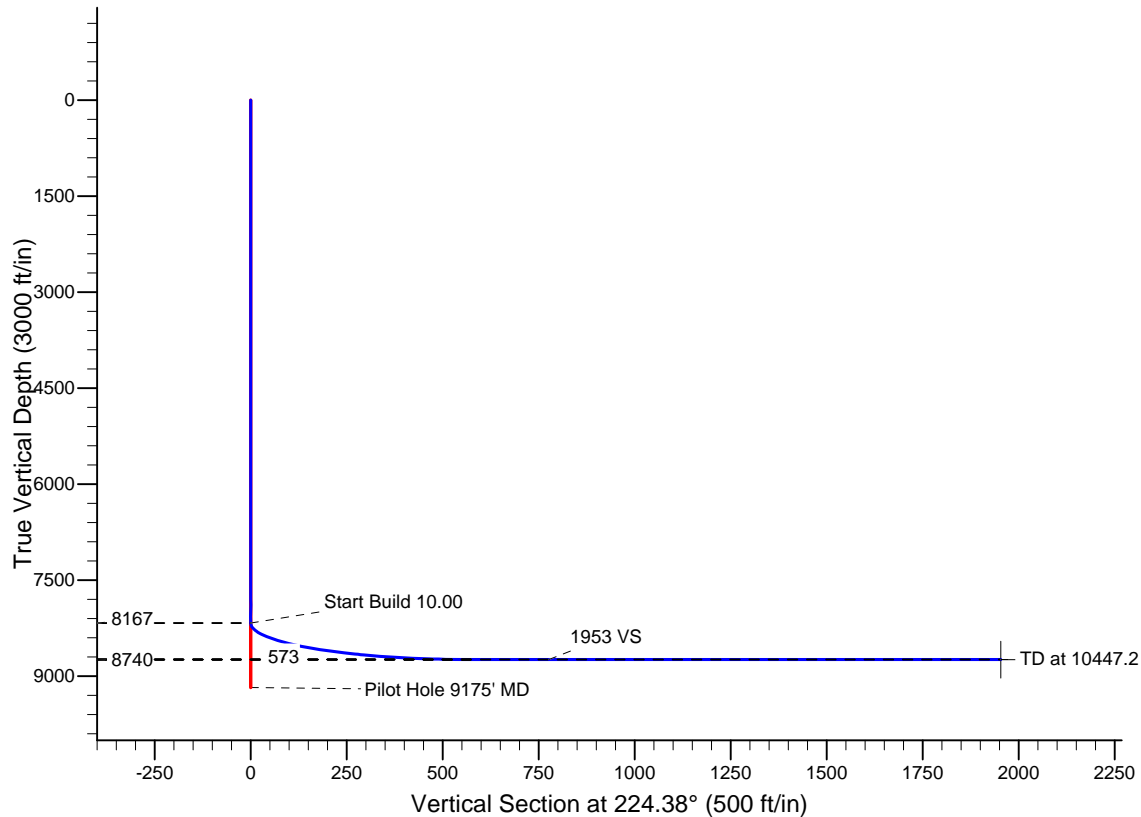
Wellstar Corporation

Jackson County, CO

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Colorado Northern Zone

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	8167.0	0.00	0.00	8167.0	0.0	0.0	0.00	0.00	0.0	
3	9067.0	90.00	224.38	8740.0	-409.5	-400.7	10.00	224.38	573.0	
	410447.2	90.00	224.38	8740.0	-1395.9	-1366.1	0.00	0.00	1953.1	SSM



Wellstar Corporation

**Jackson County, CO
Section 35-R8N-T78W
Silver Spur Mineral 35-2
Wellbore #1**

Plan: Sidetrack

Standard Planning Report

06 April, 2010

Crescent Directional Drilling

Planning Report

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well Silver Spur Mineral 35-2
Company:	Wellstar Corporation	TVD Reference:	WELL @ 8534.0ft (Original Well Elev)
Project:	Jackson County, CO	MD Reference:	WELL @ 8534.0ft (Original Well Elev)
Site:	Section 35-R8N-T78W	North Reference:	True
Well:	Silver Spur Mineral 35-2	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Sidetrack		

Project	Jackson County, CO		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site		Section 35-R8N-T78W			
Site Position:		Northing:	1,468,570.02 ft	Latitude:	40° 37' 4.958 N
From:	Lat/Long	Easting:	2,831,776.05 ft	Longitude:	106° 6' 21.481 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	-0.39 °

Well	Silver Spur Mineral 35-2					
Well Position	+N-S	0.0 ft	Northing:	1,468,570.02 ft	Latitude:	40° 37' 4.958 N
	+E-W	0.0 ft	Easting:	2,831,776.05 ft	Longitude:	106° 6' 21.481 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	0.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	04/05/10	9.74	67.04	53,189

Design	Sidetrack				
Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	224.38	

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
8,167.0	0.00	0.00	8,167.0	0.0	0.0	0.00	0.00	0.00	0.00	
9,067.0	90.00	224.38	8,740.0	-409.5	-400.7	10.00	10.00	0.00	224.38	
10,447.2	90.00	224.38	8,740.0	-1,395.9	-1,366.1	0.00	0.00	0.00	0.00	SSM

Crescent Directional Drilling

Planning Report

Database: EDM 2003.16 Single User Db
Company: Wellstar Corporation
Project: Jackson County, CO
Site: Section 35-R8N-T78W
Well: Silver Spur Mineral 35-2
Wellbore: Wellbore #1
Design: Sidetrack

Local Co-ordinate Reference: Well Silver Spur Mineral 35-2
TVD Reference: WELL @ 8534.0ft (Original Well Elev)
MD Reference: WELL @ 8534.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned 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)
8,167.0	0.00	0.00	8,167.0	0.0	0.0	0.0	0.00	0.00	0.00
Sidetrack 8167' MD									
8,200.0	3.30	224.38	8,200.0	-0.7	-0.7	1.0	10.00	10.00	0.00
8,300.0	13.30	224.38	8,298.8	-11.0	-10.7	15.4	10.00	10.00	0.00
8,400.0	23.30	224.38	8,393.6	-33.4	-32.7	46.7	10.00	10.00	0.00
8,500.0	33.30	224.38	8,481.6	-67.2	-65.8	94.1	10.00	10.00	0.00
8,600.0	43.30	224.38	8,559.9	-111.5	-109.1	156.0	10.00	10.00	0.00
8,700.0	53.30	224.38	8,626.4	-164.8	-161.2	230.5	10.00	10.00	0.00
8,800.0	63.30	224.38	8,678.9	-225.5	-220.7	315.5	10.00	10.00	0.00
8,900.0	73.30	224.38	8,715.8	-291.8	-285.6	408.3	10.00	10.00	0.00
9,000.0	83.30	224.38	8,736.0	-361.7	-354.0	506.1	10.00	10.00	0.00
9,067.0	90.00	224.38	8,740.0	-409.5	-400.7	573.0	10.00	10.00	0.00
EOB Hold 90 Degrees									
9,100.0	90.00	224.38	8,740.0	-433.1	-423.8	606.0	0.00	0.00	0.00
9,200.0	90.00	224.38	8,740.0	-504.6	-493.8	706.0	0.00	0.00	0.00
9,300.0	90.00	224.38	8,740.0	-576.0	-563.7	806.0	0.00	0.00	0.00
9,400.0	90.00	224.38	8,740.0	-647.5	-633.6	906.0	0.00	0.00	0.00
9,500.0	90.00	224.38	8,740.0	-719.0	-703.6	1,006.0	0.00	0.00	0.00
9,600.0	90.00	224.38	8,740.0	-790.4	-773.5	1,106.0	0.00	0.00	0.00
9,700.0	90.00	224.38	8,740.0	-861.9	-843.5	1,206.0	0.00	0.00	0.00
9,800.0	90.00	224.38	8,740.0	-933.4	-913.4	1,306.0	0.00	0.00	0.00
9,900.0	90.00	224.38	8,740.0	-1,004.9	-983.3	1,406.0	0.00	0.00	0.00
10,000.0	90.00	224.38	8,740.0	-1,076.3	-1,053.3	1,506.0	0.00	0.00	0.00
10,100.0	90.00	224.38	8,740.0	-1,147.8	-1,123.2	1,606.0	0.00	0.00	0.00
10,200.0	90.00	224.38	8,740.0	-1,219.3	-1,193.2	1,706.0	0.00	0.00	0.00
10,300.0	90.00	224.38	8,740.0	-1,290.7	-1,263.1	1,806.0	0.00	0.00	0.00
10,400.0	90.00	224.38	8,740.0	-1,362.2	-1,333.1	1,906.0	0.00	0.00	0.00
10,447.2	90.00	224.38	8,740.0	-1,395.9	-1,366.1	1,953.1	0.00	0.00	0.00

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
SSM	0.00	0.00	8,740.0	-1,396.0	-1,366.0	1,467,183.38	2,830,400.54	40° 36' 51.163 N	106° 6' 39.194 W
- plan hits target									
- Point									

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
8,167.0	8,167.0	0.0	0.0	Sidetrack 8167' MD
9,067.0	8,740.0	-409.5	-400.7	EOB Hold 90 Degrees