

SunTerra Oil-Gas LP
Routt County, CO
Sec. 3, T6N, R87W
Robert Waltrip 1H-3
Hz

Plan: Plan #1

Directional Planning Report

02 December, 2010



Seidel Technologies
Directional Planning Report



Company:	SunTerra Oil-Gas LP	Local Co-ordinate Reference:	Well Robert Waltrip 1H-3
Project:	Routt County, CO	TVD Reference:	KB @ 6970.0ft (Original Well Elev)
Site:	Sec. 3, T6N, R87W	MD Reference:	KB @ 6970.0ft (Original Well Elev)
Well:	Robert Waltrip 1H-3	North Reference:	True
Wellbore:	Hz	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	Seidel

Project	Routt County, CO		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD83 Colorado - HARN		
Map Zone:	Zone 13N (108 W to 102 W)		

Site	Sec. 3, T6N, R87W		
Site Position:		Northing:	14,716,631.81 ft
From:	Lat/Long	Easting:	1,044,961.19 ft
Position Uncertainty:	0.0 ft	Slot Radius:	"
		Latitude:	40° 30' 5.830 N
		Longitude:	107° 8' 30.900 W
		Grid Convergence:	-1.39 °

Well	Robert Waltrip 1H-3		
Well Position	+N/-S	0.0 ft	Northing:
	+E/-W	0.0 ft	Easting:
Position Uncertainty		0.0 ft	Wellhead Elevation:
			Latitude:
			Longitude:
			Ground Level:

Wellbore	Hz		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2010	02/12/2010	10.15
			Dip Angle
			(°)
			66.74
			Field Strength
			(nT)
			52,947

Design	Plan #1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0.0	0.0	0.0
			Direction
			(°)
			45.00

Survey Tool Program	Date	02/12/2010		
From	To	Survey (Wellbore)	Tool Name	Description
(ft)	(ft)			
0.0	8,182.1	Plan #1 (Hz)		

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Planned Survey

MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Subsea (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)
0.0	0.00	0.00	0.0	6,970.0	0.0	0.0	0.0	0.00	0.00	0.00
98.4	0.00	0.00	98.4	6,871.6	0.0	0.0	0.0	0.00	0.00	0.00
196.9	0.00	0.00	196.9	6,773.1	0.0	0.0	0.0	0.00	0.00	0.00
295.3	0.00	0.00	295.3	6,674.7	0.0	0.0	0.0	0.00	0.00	0.00
393.7	0.00	0.00	393.7	6,576.3	0.0	0.0	0.0	0.00	0.00	0.00
492.1	0.00	0.00	492.1	6,477.9	0.0	0.0	0.0	0.00	0.00	0.00
590.6	0.00	0.00	590.6	6,379.4	0.0	0.0	0.0	0.00	0.00	0.00
689.0	0.00	0.00	689.0	6,281.0	0.0	0.0	0.0	0.00	0.00	0.00
787.4	0.00	0.00	787.4	6,182.6	0.0	0.0	0.0	0.00	0.00	0.00
885.8	0.00	0.00	885.8	6,084.2	0.0	0.0	0.0	0.00	0.00	0.00
984.3	0.00	0.00	984.3	5,985.7	0.0	0.0	0.0	0.00	0.00	0.00
1,082.7	0.00	0.00	1,082.7	5,887.3	0.0	0.0	0.0	0.00	0.00	0.00
1,181.1	0.00	0.00	1,181.1	5,788.9	0.0	0.0	0.0	0.00	0.00	0.00
1,279.5	0.00	0.00	1,279.5	5,690.5	0.0	0.0	0.0	0.00	0.00	0.00
1,378.0	0.00	0.00	1,378.0	5,592.0	0.0	0.0	0.0	0.00	0.00	0.00
1,476.4	0.00	0.00	1,476.4	5,493.6	0.0	0.0	0.0	0.00	0.00	0.00
1,574.8	0.00	0.00	1,574.8	5,395.2	0.0	0.0	0.0	0.00	0.00	0.00
1,673.2	0.00	0.00	1,673.2	5,296.8	0.0	0.0	0.0	0.00	0.00	0.00
1,771.7	0.00	0.00	1,771.7	5,198.3	0.0	0.0	0.0	0.00	0.00	0.00
1,870.1	0.00	0.00	1,870.1	5,099.9	0.0	0.0	0.0	0.00	0.00	0.00
1,968.5	0.00	0.00	1,968.5	5,001.5	0.0	0.0	0.0	0.00	0.00	0.00
2,066.9	0.00	0.00	2,066.9	4,903.1	0.0	0.0	0.0	0.00	0.00	0.00
2,165.4	0.00	0.00	2,165.4	4,804.6	0.0	0.0	0.0	0.00	0.00	0.00
2,263.8	0.00	0.00	2,263.8	4,706.2	0.0	0.0	0.0	0.00	0.00	0.00
2,362.2	0.00	0.00	2,362.2	4,607.8	0.0	0.0	0.0	0.00	0.00	0.00
2,460.6	0.00	0.00	2,460.6	4,509.4	0.0	0.0	0.0	0.00	0.00	0.00
2,559.1	0.00	0.00	2,559.1	4,410.9	0.0	0.0	0.0	0.00	0.00	0.00

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Planned Survey

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2,657.5	0.00	0.00	2,657.5	4,312.5	0.0	0.0	0.0	0.00	0.00	0.00
2,755.9	0.00	0.00	2,755.9	4,214.1	0.0	0.0	0.0	0.00	0.00	0.00
2,854.3	0.00	0.00	2,854.3	4,115.7	0.0	0.0	0.0	0.00	0.00	0.00
2,952.8	0.00	0.00	2,952.8	4,017.2	0.0	0.0	0.0	0.00	0.00	0.00
3,051.2	0.00	0.00	3,051.2	3,918.8	0.0	0.0	0.0	0.00	0.00	0.00
3,149.6	0.00	0.00	3,149.6	3,820.4	0.0	0.0	0.0	0.00	0.00	0.00
3,248.0	0.00	0.00	3,248.0	3,722.0	0.0	0.0	0.0	0.00	0.00	0.00
3,346.5	0.00	0.00	3,346.5	3,623.5	0.0	0.0	0.0	0.00	0.00	0.00
3,444.9	0.00	0.00	3,444.9	3,525.1	0.0	0.0	0.0	0.00	0.00	0.00
3,543.3	0.00	0.00	3,543.3	3,426.7	0.0	0.0	0.0	0.00	0.00	0.00
3,641.7	0.00	0.00	3,641.7	3,328.3	0.0	0.0	0.0	0.00	0.00	0.00
3,740.2	0.00	0.00	3,740.2	3,229.8	0.0	0.0	0.0	0.00	0.00	0.00
3,838.6	0.00	0.00	3,838.6	3,131.4	0.0	0.0	0.0	0.00	0.00	0.00
3,937.0	0.00	0.00	3,937.0	3,033.0	0.0	0.0	0.0	0.00	0.00	0.00
4,035.4	0.00	0.00	4,035.4	2,934.6	0.0	0.0	0.0	0.00	0.00	0.00
4,133.9	0.00	0.00	4,133.9	2,836.1	0.0	0.0	0.0	0.00	0.00	0.00
4,232.3	0.00	0.00	4,232.3	2,737.7	0.0	0.0	0.0	0.00	0.00	0.00
4,330.7	0.00	0.00	4,330.7	2,639.3	0.0	0.0	0.0	0.00	0.00	0.00
4,429.1	0.00	0.00	4,429.1	2,540.9	0.0	0.0	0.0	0.00	0.00	0.00
4,527.6	0.00	0.00	4,527.6	2,442.4	0.0	0.0	0.0	0.00	0.00	0.00
4,626.0	0.00	0.00	4,626.0	2,344.0	0.0	0.0	0.0	0.00	0.00	0.00
4,724.4	0.00	0.00	4,724.4	2,245.6	0.0	0.0	0.0	0.00	0.00	0.00
4,822.8	0.00	0.00	4,822.8	2,147.2	0.0	0.0	0.0	0.00	0.00	0.00
4,921.3	0.00	0.00	4,921.3	2,048.7	0.0	0.0	0.0	0.00	0.00	0.00
5,019.7	0.00	0.00	5,019.7	1,950.3	0.0	0.0	0.0	0.00	0.00	0.00
5,118.1	0.00	0.00	5,118.1	1,851.9	0.0	0.0	0.0	0.00	0.00	0.00
5,216.5	0.00	0.00	5,216.5	1,753.5	0.0	0.0	0.0	0.00	0.00	0.00

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5,315.0	0.00	0.00	5,315.0	1,655.0	0.0	0.0	0.0	0.00	0.00	0.00
5,413.4	0.00	0.00	5,413.4	1,556.6	0.0	0.0	0.0	0.00	0.00	0.00
5,511.8	0.00	0.00	5,511.8	1,458.2	0.0	0.0	0.0	0.00	0.00	0.00
5,610.2	0.00	0.00	5,610.2	1,359.8	0.0	0.0	0.0	0.00	0.00	0.00
5,708.7	0.00	0.00	5,708.7	1,261.3	0.0	0.0	0.0	0.00	0.00	0.00
5,807.1	0.00	0.00	5,807.1	1,162.9	0.0	0.0	0.0	0.00	0.00	0.00
5,905.5	0.00	0.00	5,905.5	1,064.5	0.0	0.0	0.0	0.00	0.00	0.00
5,938.8	0.00	0.00	5,938.8	1,031.2	0.0	0.0	0.0	0.00	0.00	0.00
KOP (Build @ 12°/100')										
6,003.9	7.82	45.00	6,003.7	966.3	3.1	3.1	4.4	12.00	12.00	0.00
6,102.4	19.63	45.00	6,099.2	870.8	19.6	19.6	27.7	12.00	12.00	0.00
6,200.8	31.44	45.00	6,187.8	782.2	49.6	49.6	70.1	12.00	12.00	0.00
6,299.2	43.25	45.00	6,265.9	704.1	91.7	91.7	129.7	12.00	12.00	0.00
6,397.6	55.06	45.00	6,330.2	639.8	144.3	144.3	204.0	12.00	12.00	0.00
6,496.1	66.87	45.00	6,377.9	592.1	205.0	205.0	289.9	12.00	12.00	0.00
6,594.5	78.68	45.00	6,407.0	563.0	271.4	271.4	383.8	12.00	12.00	0.00
6,692.9	90.49	45.00	6,416.3	553.7	340.5	340.5	481.6	12.00	12.00	0.00
6,791.3	102.30	45.00	6,405.3	564.7	409.6	409.6	579.2	12.00	12.00	0.00
6,813.8	105.00	45.00	6,400.0	570.0	425.0	425.0	601.0	12.00	12.00	0.00
ICP										
6,889.8	105.00	45.00	6,380.3	589.7	476.9	476.9	674.4	0.00	0.00	0.00
6,988.2	105.00	45.00	6,354.9	615.1	544.1	544.1	769.5	0.00	0.00	0.00
7,086.6	105.00	45.00	6,329.4	640.6	611.3	611.3	864.6	0.00	0.00	0.00
7,185.0	105.00	45.00	6,303.9	666.1	678.6	678.6	959.6	0.00	0.00	0.00
7,283.5	105.00	45.00	6,278.4	691.6	745.8	745.8	1,054.7	0.00	0.00	0.00
7,381.9	105.00	45.00	6,253.0	717.0	813.0	813.0	1,149.8	0.00	0.00	0.00
7,480.3	105.00	45.00	6,227.5	742.5	880.2	880.2	1,244.8	0.00	0.00	0.00

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7,578.7	105.00	45.00	6,202.0	768.0	947.5	947.5	1,339.9	0.00	0.00	0.00
7,677.2	105.00	45.00	6,176.5	793.5	1,014.7	1,014.7	1,435.0	0.00	0.00	0.00
7,775.6	105.00	45.00	6,151.1	818.9	1,081.9	1,081.9	1,530.1	0.00	0.00	0.00
7,874.0	105.00	45.00	6,125.6	844.4	1,149.1	1,149.1	1,625.1	0.00	0.00	0.00
7,972.4	105.00	45.00	6,100.1	869.9	1,216.4	1,216.4	1,720.2	0.00	0.00	0.00
8,070.9	105.00	45.00	6,074.6	895.4	1,283.6	1,283.6	1,815.3	0.00	0.00	0.00
8,169.3	105.00	45.00	6,049.2	920.8	1,350.8	1,350.8	1,910.3	0.00	0.00	0.00
8,182.3	105.00	45.00	6,045.8	924.2	1,359.7	1,359.7	1,922.9	0.00	0.00	0.00

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
5,938.8	5,938.8	0.0	0.0	KOP (Build @ 12°/100')
6,813.8	6,400.0	425.0	425.0	ICP
8,182.3	6,045.8	1,359.7	1,359.7	BHL

Checked By: _____ Approved By: _____ Date: _____