



123 Robert S. Kerr Ave.  
Oklahoma City, OK 73102

## Survey

### SUNNIE 1-16 SWD

Step #1 - Create a Deviation Survey Step  
 #2 - Attach the survey "Description" to the Wellbore - Deviation Survey

**Wellbores - Step #2**

Actual Deviation Survey 316, Proposed? No	Wellbore Name Original Hole
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**Deviation Surveys - Step #1**

Description 316	Date 12/24/2011	VS Dir (°)	Comment
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**Tie-in Data**

Azimuth North Type	Convergence (°)	Declination (°)	MD Tie In (ftKB) 0.00	Azimuth Tie In (°)	Inclination Tie In (°)	TVDTie In (ftKB)	NSTie In (ft)	EWTie In (ft)
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**Survey Data**

MD (ftKB)	Incl (°)	Azrn (°)	Survey Company	Method	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
316	0.8		TOM CAT	Gyro SS	316				
516	0.8		TOM CAT	Gyro SS	516				
715	0.8		TOM CAT	Gyro SS	715				
1,269	1.5		TOM CAT	Gyro SS	1,269				
1,773	2.3		TOM CAT	Gyro SS	1,773				
2,256	2.5		TOM CAT	Gyro SS	2,256				
2,756	1.0		TOM CAT	Gyro SS	2,756				
3,282	1.0		TOM CAT	Gyro SS	3,282				
3,763	1.8		TOM CAT	Gyro SS	3,763				