



Job Number:
 Company: Santa Fe Snyder
 Lease/Well: Old Ranch Knoll 8 Fed. #5
 Location: Eddy County
 Rig Name:
 RKB:
 G.L. or M.S.L.:

State/Country: New Mexico
 Declination:
 Grid: True
 File name: C:\WINSERVE\SUR\SANTAF-1\OLDRAN5.SVY
 Date/Time: 27-Jul-00 / 13:53
 Curve Name: Preliminary Plan #2

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 359.85
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
Kick-off Point Build 1.5"/100'									
5470.79	.00	359.85	5470.79	.00	.00	.00	.00	.00	.00
5570.79	1.50	359.85	5570.78	1.31	.00	1.31	1.31	359.85	1.50
5670.79	3.00	359.85	5670.70	5.23	-.01	5.23	5.23	359.85	1.50
5770.79	4.50	359.85	5770.48	11.77	-.03	11.77	11.77	359.85	1.50
5870.79	6.00	359.85	5870.06	20.92	-.05	20.92	20.92	359.85	1.50
5970.79	7.50	359.85	5969.36	32.68	-.08	32.68	32.68	359.85	1.50
6070.79	9.00	359.85	6068.32	47.03	-.12	47.03	47.03	359.85	1.50
6170.79	10.50	359.85	6166.88	63.96	-.17	63.96	63.96	359.85	1.50
6270.79	12.00	359.85	6264.95	83.47	-.22	83.47	83.47	359.85	1.50
6370.79	13.50	359.85	6362.48	105.54	-.27	105.54	105.54	359.85	1.50
6470.79	15.00	359.85	6459.40	130.15	-.34	130.15	130.15	359.85	1.50
6570.79	16.50	359.85	6555.65	157.30	-.41	157.30	157.30	359.85	1.50
6670.79	18.00	359.85	6651.15	186.95	-.48	186.95	186.95	359.85	1.50
6770.79	19.50	359.85	6745.84	219.09	-.57	219.09	219.09	359.85	1.50
6870.79	21.00	359.85	6839.65	253.70	-.66	253.70	253.70	359.85	1.50
6970.79	22.50	359.85	6932.53	290.76	-.75	290.76	290.76	359.85	1.50
7070.79	24.00	359.85	7024.41	330.23	-.86	330.23	330.23	359.85	1.50
7170.79	25.50	359.85	7115.22	372.10	-.96	372.10	372.10	359.85	1.50
7270.79	27.00	359.85	7204.90	416.32	-1.08	416.32	416.32	359.85	1.50
7370.79	28.50	359.85	7293.40	462.88	-1.20	462.88	462.88	359.85	1.50
End of Build									
7470.79	30.00	359.85	7380.65	511.74	-1.33	511.75	511.75	359.85	1.50

