

Job Number: 1

State/Country: Eddy/NM/USA

Company: Yates Petroleum Corporation

Declination:

Lease/Well: Walt Canyon AMA Federal Com. #8

Grid:

Location: Section 10, T22S-R24E, Surf: 214' N & 1,561' E, BH: 660' N & 1,980' E

Rig Name:

Date/Time: 24-Jan-02 / 08:23

RKB:

Curve Name: Proposed/Preliminary

G.L. or M.S.L.: 3,930'

WINSERVE SURVEY CALCULATIONS

Minimum Curvature Method

Vertical Section Plane 223.21

Vertical Section Referenced to offset from Wellhead: EW =.00 Ft, NS=.00 Ft

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	CLOSURE Direction Deg	Dogleg Severity Deg/100
RUN GYRO TIE-IN, PU DIRECTIONAL TOOLS, KICK-OFF BUILDING AT A RATE OF 2.5 DEG/100'.									
5067.74	.00	.00	5067.74	.00	.00	.00	.00	.00	.00
5097.74	.75	223.21	5097.74	-.14	-.13	.20	.20	223.21	2.50
5127.74	1.50	223.21	5127.73	-.57	-.54	.79	.79	223.21	2.50
5157.74	2.25	223.21	5157.72	-1.29	-1.21	1.77	1.77	223.21	2.50
5187.74	3.00	223.21	5187.63	-2.29	-2.15	3.14	3.14	223.21	2.50
5217.74	3.75	223.21	5217.63	-3.58	-3.36	4.91	4.91	223.21	2.50
5247.74	4.50	223.21	5247.55	-5.15	-4.84	7.06	7.06	223.21	2.50
5277.74	5.25	223.21	5277.44	-7.01	-6.58	9.61	9.61	223.21	2.50
5307.74	6.00	223.21	5307.30	-9.15	-8.60	12.55	12.55	223.21	2.50
5337.74	6.75	223.21	5337.11	-11.58	-10.88	15.99	15.89	223.21	2.50
5367.74	7.50	223.21	5366.88	-14.29	-13.42	19.61	19.61	223.21	2.50
5397.74	8.25	223.21	5396.60	-17.29	-16.24	23.72	23.72	223.21	2.50
5427.74	9.00	223.21	5426.26	-20.56	-19.32	28.22	28.22	223.21	2.50
5457.74	9.75	223.21	5455.86	-24.13	-22.67	33.10	33.10	223.21	2.50
5487.74	10.50	223.21	5485.39	-27.97	-26.28	38.38	38.38	223.21	2.50
5517.74	11.25	223.21	5514.85	-32.10	-30.15	44.04	44.04	223.21	2.50
5547.74	12.00	223.21	5544.24	-36.50	-34.29	50.08	50.08	223.21	2.50
5577.74	12.75	223.21	5573.54	-41.19	-38.69	56.51	56.51	223.21	2.50
5607.74	13.50	223.21	5602.76	-46.15	-43.36	63.32	63.32	223.21	2.50
5637.74	14.25	223.21	5631.88	-51.39	-48.28	70.52	70.52	223.21	2.50
END OF BUILD. HOLD 15 DEGREE ANGLE, ADJUST AS NECESSARY									
5667.74	15.00	223.21	5660.91	-56.92	-53.47	78.09	78.09	223.21	2.50
5667.74	15.00	223.21	5660.91	-56.92	-53.47	78.09	78.09	223.21	2.76
5767.74	15.00	223.21	5757.50	-75.78	-71.19	103.97	103.97	223.21	.00
5867.74	15.00	223.21	5854.09	-94.64	-88.91	129.86	129.86	223.21	.00
5967.74	15.00	223.21	5950.69	-113.51	-106.63	155.74	155.74	223.21	.00
6067.74	15.00	223.21	6047.28	-132.37	-124.36	181.62	181.62	223.21	.00