

Job Number:	State/Country: New Mexico
Company: Yates Petroleum Corp	Declination: 9.29° East
Lease/Well: Lowe Staple AMR Fed. Com. #1	Grid: True North
Location: Eddy County	File name: C:\WINSERVE\YATES\LSAMR1.SVY
Rig Name:	Date/Time: 30-Jun-01 / 05:50
RKB:	Curve Name: WORK
G.L. or M.S.L.:	

DAILEY INTERNATIONAL Inc.
MIDLAND, TEXAS

WINSERVE SURVEY CALCULATIONS

Minimum Curvature Method

Vertical Section Plane 239.57

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

<i>Measured Depth FT</i>	<i>Incl Angle Deg</i>	<i>Drift Direction Deg</i>	<i>True Vertical Depth</i>	<i>N-S FT</i>	<i>E-W FT</i>	<i>Vertical Section FT</i>	<i>CLOSURE Distance FT</i>	<i>Direction Deg</i>	<i>Dogleg Severity Deg/100</i>	<i>BUILD RATE Deg/100</i>
TIE IN FROM GYRO DATA GYRO										
3600.00	.13	272.10	3599.80	8.24	-19.39	12.55	21.07	293.02	.00	.00
3636.00	.30	276.00	3635.80	8.25	-19.52	12.66	21.20	292.91	.47	.47
3656.00	1.30	234.80	3655.80	8.13	-19.76	12.92	21.37	292.35	5.46	5.00
3680.00	2.70	229.20	3679.78	7.60	-20.41	13.75	21.78	290.42	5.88	5.83
3712.00	4.10	224.00	3711.73	6.28	-21.78	15.59	22.67	286.10	4.48	4.37
3744.00	4.60	226.50	3743.63	4.58	-23.50	17.95	23.94	281.02	1.67	1.56
3776.00	5.00	224.30	3775.52	2.70	-25.41	20.54	25.55	276.06	1.38	1.25
3808.00	5.40	226.60	3807.39	.66	-27.48	23.35	27.48	271.38	1.41	1.25
3839.00	6.00	229.90	3838.24	-1.38	-29.78	26.37	29.81	267.34	2.20	1.94
3871.00	6.50	233.00	3870.05	-3.55	-32.50	29.82	32.69	263.77	1.88	1.56
3903.00	6.70	233.80	3901.83	-5.74	-35.45	33.48	35.92	260.80	.69	.63
3935.00	7.50	234.70	3933.59	-8.05	-38.66	37.42	39.49	258.24	2.52	2.50
3967.00	8.70	236.00	3965.27	-10.61	-42.38	41.91	43.68	255.94	3.79	3.75
3998.00	9.50	239.20	3995.88	-13.23	-46.52	46.81	48.36	254.12	3.05	2.58
4030.00	10.20	237.80	4027.41	-16.09	-51.18	52.28	53.65	252.54	2.31	2.19
4062.00	11.10	237.50	4058.85	-19.26	-56.18	58.19	59.39	251.08	2.82	2.81
4094.00	11.30	237.40	4090.25	-22.60	-61.42	64.41	65.44	249.79	.63	.63
4126.00	12.00	238.00	4121.59	-26.06	-66.88	70.86	71.78	248.71	2.22	2.19
4158.00	12.80	238.90	4152.84	-29.65	-72.74	77.73	78.55	247.82	2.57	2.50
4190.00	13.20	239.10	4184.02	-33.36	-78.91	84.93	85.67	247.08	1.26	1.25
4221.00	13.60	240.10	4214.17	-36.99	-85.10	92.12	92.80	246.51	1.49	1.29
4253.00	14.40	239.70	4245.22	-40.87	-91.80	99.86	100.49	246.00	2.52	2.50
4285.00	14.90	238.70	4276.18	-45.02	-98.75	107.95	108.53	245.49	1.75	1.56