



RECTIONAL DRILLING CONTRACTORS, LLC.

Job Number: MID-DR-1048

Company: MURCHISON/RK FORD & ASSOC.

Lease/Well: NASH #52

Location: Eddy County

Rlg Name: Patterson #19

RKB: N/A

G.L. or M.S.L.: 2985'

State/Country: New Mexico / USA

Declination: 8.94858

Grid: 1.80

File name: C:\PROPOS-1101060'S101-061\NASH.SVY

Date/Time: 07-Aug-01 / 09:22

Curve Name: As-Drilled Nash #52

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 356.80
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Subsea TVD FT	Vertical Section FT	Doglog Severity Deg/100	N-S FT	E-W FT	CLOSURE Distance Direction FT Deg	
Tie-In Point										
6850.00	1.10	177.30	6848.70	-3863.70	-64.23	.00	-61.50	50.60	79.64	140.55
6924.00	1.60	284.30	6922.69	-3937.69	-64.63	2.96	-61.95	49.63	79.38	141.30
6988.00	4.80	304.00	6986.58	-4001.58	-62.74	5.21	-60.24	46.55	76.12	142.31
7052.00	7.00	324.00	7050.24	-4065.24	-57.84	4.66	-55.58	42.03	69.69	142.90
7116.00	9.00	336.60	7113.62	-4128.62	-49.86	4.14	-47.83	37.75	60.93	141.72
7179.00	10.70	338.80	7175.69	-4190.69	-39.68	2.76	-37.86	33.68	50.67	138.34
7242.00	13.00	339.50	7237.35	-4252.35	-27.35	3.66	-25.76	29.08	38.85	131.54
7306.00	14.40	341.60	7299.52	-4314.52	-12.79	2.32	-11.47	24.05	26.64	115.50
7369.00	15.80	340.90	7360.35	-4375.35	3.01	2.24	4.07	18.77	19.21	77.77
7432.00	17.40	347.20	7420.72	-4435.72	20.55	3.82	21.36	13.88	25.47	33.01
7495.00	18.50	353.90	7480.66	-4495.66	39.83	3.71	40.49	10.73	41.89	14.84
7559.00	19.90	355.60	7541.10	-4556.10	60.86	2.36	61.45	8.81	62.07	8.16
7623.00	20.90	353.90	7601.09	-4616.09	83.15	1.82	83.66	6.76	83.93	4.62
7687.00	22.00	351.10	7660.66	-4675.66	106.48	2.35	106.85	3.69	106.92	1.98
7749.00	22.40	350.40	7718.06	-4733.06	129.78	.77	129.97	-.07	129.97	359.97
7813.00	23.60	350.70	7776.97	-4791.97	154.63	1.88	154.64	-4.18	154.70	358.45
7869.00	24.10	353.20	7828.19	-4843.19	177.19	2.01	177.06	-7.34	177.21	357.63
7938.00	25.50	357.40	7890.83	-4905.83	206.11	3.26	205.89	-9.68	206.11	357.31
8001.00	27.80	359.10	7947.13	-4962.13	234.35	3.85	234.13	-10.53	234.36	357.42
8063.00	30.30	359.50	8001.33	-5016.33	264.42	4.04	264.23	-10.89	264.45	357.64