

Job Number: Josey Fed #3
 Company: Nadel and Gussman
 Lease/Well: Josey Fed #3
 Location: Eddy Co. - Sec. 30-T20S-R23E
 Rig Name:
 RKB: 0.00 Ft
 Vertical Datum:

State/Country:
 Declination:
 Grid:
 Project name: Eddy County
 Date/Time: 20-Feb-06 / 09:03
 Well Name: Josey Fed #3- Survey
 North Reference: True North
 Convergence: -0.8217°

30-015-34 513

WinSURV3D SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 274.40°
 Vertical Section Referenced to Wellhead
 Local Coordinates Referenced to Structure Reference :
 EW=418603.47 Ft, NS=559968.29 Ft
 Direction referenced to True North

Measured Depth Ft	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	LOCALS		Vertical Section Ft	CLOSURE		Dogleg Severity Deg/100
				N-S Ft	E-W Ft		Distance Ft	Direction Deg	
Tie Into Gyro									
2450.00	0.81	275.90	2449.90	7.80	-13.20	13.76	15.33	300.58	0.00
2553.00	1.90	283.80	2552.87	8.28	-15.58	16.17	17.65	297.97	1.07
2648.00	4.00	282.90	2648.74	9.40	-20.40	21.06	22.46	294.74	2.19
2746.00	5.10	282.10	2745.43	11.06	-27.91	28.67	30.02	291.61	1.14
2842.00	5.70	279.80	2841.00	12.76	-36.78	37.65	38.93	289.14	0.66
2938.00	6.90	269.80	2936.42	13.55	-47.24	48.14	49.15	286.01	1.69
3032.00	7.00	265.40	3029.73	13.08	-58.60	59.43	60.04	282.58	0.58
3127.00	6.10	267.60	3124.11	12.40	-69.41	70.16	70.51	280.13	0.98
3223.00	5.80	268.20	3219.60	12.03	-79.36	80.05	80.26	278.62	0.32
3320.00	5.80	268.40	3316.10	11.57	-89.15	89.77	89.90	277.40	0.19
3416.00	5.40	274.00	3411.64	11.58	-98.50	99.09	99.17	276.71	0.88
3512.00	5.40	277.10	3507.22	12.46	-107.48	108.12	108.20	276.61	0.30
3608.00	6.10	275.90	3602.73	13.54	-117.04	117.73	117.82	276.60	0.74
3705.00	5.60	269.20	3699.23	14.00	-126.90	127.60	127.67	276.30	0.87
3800.00	5.60	267.20	3793.78	13.71	-136.16	136.81	136.85	275.75	0.21
3896.00	5.70	273.40	3889.31	13.77	-145.60	146.23	146.25	275.40	0.64
3992.00	5.60	277.00	3984.84	14.62	-155.01	155.67	155.70	275.39	0.38
4089.00	5.30	275.60	4081.41	15.63	-164.17	164.88	164.91	275.44	0.34
4185.00	5.40	276.40	4176.99	16.57	-173.07	173.83	173.86	275.47	0.13
4281.00	5.40	276.40	4272.56	17.58	-182.05	182.86	182.89	275.51	0.00
4378.00	5.40	275.60	4369.13	18.53	-191.12	191.98	192.02	275.54	0.08
4473.00	5.70	277.20	4463.69	19.56	-200.25	201.16	201.21	275.58	0.36
4569.00	6.00	276.70	4559.19	20.74	-209.97	210.94	210.99	275.64	0.32
4664.00	6.50	278.50	4653.62	22.11	-220.22	221.26	221.32	275.73	0.57
4759.00	6.50	273.60	4748.01	23.25	-230.90	232.00	232.07	275.75	0.58
4855.00	6.50	271.00	4843.39	23.68	-241.76	242.86	242.91	275.60	0.31
4952.00	6.30	275.90	4939.79	24.33	-252.54	253.66	253.71	275.50	0.60
5047.00	5.80	268.30	5034.26	24.72	-262.52	263.65	263.68	275.38	0.99
5144.00	5.40	268.90	5130.80	24.49	-271.99	273.06	273.09	275.14	0.42
5240.00	4.40	270.70	5226.45	24.44	-280.18	281.23	281.25	274.99	1.05

Measured Depth Ft	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	LOCALS		Vertical Section Ft	CLOSURE		Dogleg Severity Deg/100
				N-S Ft	E-W Ft		Distance Ft	Direction Deg	
5336.00	4.70	267.00	5322.14	24.28	-287.79	288.81	288.82	274.82	0.44
5433.00	3.70	268.10	5418.88	23.97	-294.89	295.86	295.86	274.65	1.03
5528.00	3.00	270.90	5513.72	23.91	-300.44	301.39	301.39	274.55	0.76
5625.00	2.20	273.70	5610.62	24.07	-304.84	305.78	305.78	274.51	0.83
5721.00	1.30	267.90	5706.57	24.15	-307.76	308.71	308.71	274.49	0.95
5818.00	1.10	250.30	5803.55	23.79	-309.74	310.65	310.65	274.39	0.43
5914.00	1.70	242.40	5899.52	22.82	-311.87	312.70	312.70	274.19	0.66
6011.00	0.80	239.80	5996.50	21.82	-313.73	314.48	314.49	273.98	0.93
6107.00	0.50	15.50	6092.50	21.88	-314.20	314.95	314.96	273.98	1.26
6201.00	0.30	26.20	6186.49	22.50	-313.98	314.78	314.78	274.10	0.23
6298.00	0.10	255.80	6283.49	22.71	-313.95	314.76	314.77	274.14	0.38
6394.00	0.40	234.60	6379.49	22.49	-314.30	315.10	315.11	274.09	0.32
6490.00	1.20	236.40	6475.48	21.74	-315.41	316.15	316.16	273.94	0.83
6586.00	0.50	278.30	6571.47	21.25	-316.66	317.36	317.38	273.84	0.93
6679.00	0.80	320.10	6664.47	21.80	-317.48	318.22	318.23	273.93	0.58
6776.00	1.50	349.10	6761.45	23.57	-318.16	319.03	319.03	274.24	0.82
6872.00	1.20	71.70	6857.43	25.12	-317.44	318.43	318.43	274.52	1.87
6965.00	1.50	105.00	6970.40	25.11	-314.89	315.89	315.89	274.56	0.73
7081.00	0.40	136.00	7066.38	24.54	-313.44	314.40	314.40	274.48	1.22
7177.00	0.20	136.00	7162.38	24.18	-313.09	314.02	314.02	274.42	0.21
7273.00	0.20	285.90	7258.38	24.10	-313.14	314.06	314.06	274.40	0.40
7369.00	0.60	271.00	7354.38	24.16	-313.80	314.73	314.73	274.40	0.43
7465.00	1.40	269.30	7450.37	24.15	-315.48	316.40	316.40	274.38	0.83
7559.00	0.40	182.50	7544.35	23.81	-316.64	317.53	317.53	274.30	1.53
7656.00	0.70	107.30	7641.35	23.30	-316.09	316.94	316.95	274.22	0.73
7752.00	1.10	33.90	7737.34	23.89	-315.01	315.92	315.92	274.34	1.17
7848.00	0.80	22.90	7833.33	25.27	-314.24	315.25	315.25	274.60	0.36
7944.00	1.20	75.60	7929.32	26.14	-313.00	314.09	314.09	274.77	1.00
8040.00	0.40	207.10	8025.31	26.09	-312.18	313.27	313.27	274.78	1.56
8136.00	0.60	227.30	8121.30	25.34	-312.83	313.85	313.85	274.63	0.47
8231.00	0.90	230.70	8216.29	24.41	-313.89	314.84	314.84	274.45	0.12
8327.00	1.00	235.10	8312.28	23.48	-315.16	316.03	316.04	274.26	0.13
8410.00	0.70	144.70	8395.27	22.63	-315.47	316.27	316.28	274.10	1.48
8505.00	0.20	37.90	8490.27	22.29	-315.03	315.81	315.82	274.05	0.82
8601.00	0.80	332.20	8586.27	23.01	-315.24	316.07	316.08	274.17	0.77
8629.00	1.10	325.80	8614.26	23.41	-315.48	316.35	316.35	274.24	1.13
8670.00	1.10	325.80	8655.26	24.06	-315.92	316.84	316.84	274.35	0.00

To the best of my knowledge the surveys listed above, from 2450.00' MD to 8670.00' MD are accurate and true surveys.

Kristy Pyle
Quantum Drilling Motors

Signature

Kristy Pyle

Date:

2-20-00