

this is Survey as Drilled



Job Number: 04155
 Company: Devon Energy Production Co.
 Lease/Well: NEBU #433A
 Location: San Juan County Sec 24/19
 Rig Name: D&J #1
 RKB: ☐
 G.L. or M.S.L.: 6365'

State/Country: New Mexico
 Declination: 10.92°
 Grid: ☐
 File name: C:\WINSERVE\04155.SVY
 Date/Time: 11-Feb-04 / 20:12
 Curve Name: As Drilled

30-045-31440

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane 76.88
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Vertical Section FT	N-S FT	E-W FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
352.00	1.40	97.60	351.96	4.02	-.57	4.26	4.30	97.60	.40
443.00	5.50	73.30	442.78	9.42	.54	9.54	9.56	86.77	4.68
533.00	10.60	74.20	531.87	22.00	4.03	21.65	22.02	79.45	5.67
622.00	16.90	76.50	618.27	43.13	9.29	42.12	43.14	77.57	7.10
713.00	22.60	76.30	703.89	73.87	16.52	72.00	73.87	77.08	6.26
804.00	29.40	76.50	785.63	113.74	25.89	110.75	113.74	76.84	7.47
895.00	34.70	76.00	862.73	162.01	37.38	157.64	162.01	76.66	5.83
984.00	40.00	77.40	933.46	215.98	49.76	210.17	215.98	76.68	6.03
1074.00	43.80	75.40	1000.44	276.06	63.92	268.56	276.07	76.61	4.48
1165.00	48.50	76.00	1063.46	341.66	80.11	332.14	341.67	76.44	5.19
1258.00	53.60	77.00	1121.91	413.95	96.97	402.45	413.97	76.45	5.55
1355.00	57.30	78.60	1176.91	493.82	113.82	480.52	493.82	76.67	4.05
1449.00	57.90	78.80	1227.28	573.14	129.38	558.35	573.14	76.95	.66
1543.00	56.60	77.20	1278.13	652.18	145.80	635.68	652.18	77.08	1.99
1637.00	56.50	76.30	1329.94	730.61	163.78	712.02	730.61	77.05	.81
1730.00	56.50	76.10	1381.28	808.16	182.28	787.33	808.16	76.96	.18
1824.00	55.40	76.10	1433.91	886.03	200.99	862.93	886.03	76.89	1.17
1918.00	56.20	76.00	1486.74	963.77	219.73	938.39	963.77	76.82	.86
2013.00	57.80	75.60	1538.48	1043.42	239.28	1015.62	1043.43	76.74	1.72
2106.00	58.00	75.10	1587.90	1122.18	259.20	1091.84	1122.19	76.65	.50
2199.00	57.00	77.40	1637.87	1200.60	277.85	1168.02	1200.61	76.62	2.35

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Vertical Section FT	N-S FT	E-W FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
2292.00	57.50	77.40	1688.18	1278.81	294.91	1244.35	1278.82	76.67	.54
2386.00	57.40	78.00	1738.76	1358.04	311.79	1321.77	1358.04	76.73	.55
2480.00	57.90	76.00	1789.06	1437.44	329.66	1399.13	1437.45	76.74	1.87
2574.00	57.20	75.30	1839.50	1516.75	349.32	1475.98	1516.75	76.68	.97
2669.00	56.90	76.10	1891.17	1596.45	369.01	1553.23	1596.46	76.64	.77
2763.00	57.10	77.90	1942.37	1675.28	386.74	1630.04	1675.29	76.65	1.62
2854.00	56.40	77.70	1992.26	1751.37	402.82	1704.42	1751.38	76.70	.79
2949.00	55.30	77.20	2045.59	1829.98	419.90	1781.16	1829.99	76.73	1.24
3043.00	51.50	77.70	2101.63	1905.43	436.30	1854.81	1905.43	76.76	4.07
3138.00	51.00	79.90	2161.10	1979.47	450.70	1927.48	1979.47	76.84	1.88
3231.00	47.30	76.50	2221.92	2049.76	465.02	1996.32	2049.76	76.89	4.84
3324.00	42.40	76.10	2287.84	2115.33	480.54	2060.02	2115.33	76.87	5.28
3419.00	35.30	77.00	2361.78	2174.88	494.43	2117.93	2174.88	76.86	7.50
3511.00	28.80	77.20	2439.71	2223.67	505.33	2165.50	2223.67	76.86	7.07
3603.00	24.50	72.80	2521.93	2264.89	515.88	2205.35	2264.89	76.83	5.14
3698.00	18.70	71.90	2610.22	2299.74	526.45	2238.67	2299.74	76.77	6.12
3791.00	12.30	77.90	2699.79	2324.52	533.16	2262.56	2324.53	76.74	7.09
3883.00	5.50	80.20	2790.63	2338.73	535.97	2276.50	2338.74	76.75	7.40
3976.00	.70	59.40	2883.47	2343.73	537.02	2281.38	2343.73	76.75	5.22
4069.00	.50	69.10	2976.47	2344.67	537.46	2282.25	2344.68	76.75	.24

Projectio To Bit									
4109.00	.41	73.27	3016.47	2344.99	537.56	2282.55	2345.00	76.75	.24

1093' Correl