

Job Number:
 Company: Devon Energy Production Co.
 Lease/Well: NEBU #430A 486A
 Location: Rio Arriba/San Juan County
 Rig Name:
 RKB:
 G.L. or M.S.L.:

State/Country: New Mexico
 Declination:
 Grid:
 File name: C:\CUST03\SURVEY\DEVON\03198.SVY
 Date/Time: 13-Nov-03 / 15:58
 Curve Name: As Drilled



30-039-27475

Surface: 1975/N 140/E
 BHL 673/S 656/E 14-31N, 6W
 INWELL INC.
 DIRECTIONAL DRILLING SERVICES
 HOUSTON, TEXAS
 281-397-7614
 888-397-7614

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 15.69
 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		Dogleg Severity Deg/100
Distance FT	Direction Deg								
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
293.00	.90	133.80	292.99	-1.08	-1.59	1.66	2.30	133.80	.31
384.00	2.60	6.30	383.96	.62	-.04	2.40	2.40	90.84	3.55
476.00	8.60	11.60	475.48	9.54	8.78	4.02	9.66	24.57	6.54
567.00	12.20	17.30	564.97	25.95	24.64	8.25	25.98	18.51	4.11
657.00	16.50	16.50	652.14	48.24	45.98	14.71	48.27	17.74	4.78
747.00	21.00	14.30	737.35	77.16	73.88	22.32	77.17	16.81	5.06
837.00	26.80	14.60	819.59	113.60	109.17	31.43	113.60	16.06	6.45
927.00	29.70	15.40	898.87	156.19	150.31	42.47	156.19	15.78	3.25
1017.00	34.10	14.90	975.25	203.73	196.20	54.88	203.73	15.63	4.90
1107.00	37.00	13.50	1048.47	256.03	246.93	67.69	256.04	15.33	3.35
1198.00	41.90	13.40	1118.72	313.79	303.15	81.14	313.82	14.98	5.39
1289.00	45.10	16.40	1184.73	376.41	363.65	97.28	376.44	14.98	4.18
1379.00	49.20	14.40	1245.93	442.37	427.25	114.76	442.40	15.04	4.84
1473.00	54.30	14.30	1304.10	516.14	498.75	133.05	516.19	14.94	5.43
1566.00	58.40	15.90	1355.63	593.53	573.46	153.24	593.58	14.96	4.64
1661.00	62.40	15.50	1402.54	676.12	652.97	175.58	676.16	15.05	4.23
1755.00	64.40	14.90	1444.63	760.16	734.07	197.61	760.21	15.07	2.20
1849.00	64.10	13.80	1485.47	844.80	816.10	218.60	844.87	15.00	1.10
1942.00	64.80	15.40	1525.58	928.69	897.29	239.75	928.76	14.96	1.73
2034.00	64.50	15.60	1564.97	1011.83	977.40	261.97	1011.90	15.00	.38
2126.00	64.80	15.40	1604.36	1094.97	1057.52	284.18	1095.04	15.04	.38

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Vertical Section FT	N-S FT	E-W FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
2220.00	64.70	15.10	1644.46	1179.99	1139.55	306.55	1180.06	15.06	.31
2313.00	64.70	16.30	1684.20	1264.06	1220.49	329.30	1264.13	15.10	1.17
2375.00	64.60	15.60	1710.75	1320.09	1274.36	344.70	1320.15	15.14	1.03
2469.00	64.60	16.00	1751.07	1405.01	1356.07	367.82	1405.06	15.18	.38
2563.00	65.40	15.50	1790.79	1490.20	1438.06	390.94	1490.25	15.21	.98
2657.00	66.00	16.40	1829.48	1575.87	1520.43	414.48	1575.91	15.25	1.08
2752.00	67.00	16.30	1867.36	1662.98	1604.03	439.01	1663.02	15.31	1.06
2844.00	66.00	15.60	1904.04	1747.35	1685.15	462.19	1747.38	15.34	1.29
2938.00	65.20	15.60	1942.87	1832.95	1767.60	485.21	1832.98	15.35	.85
3031.00	63.60	16.30	1983.06	1916.82	1848.24	508.26	1916.85	15.38	1.85
3124.00	62.50	15.50	2025.20	1999.72	1927.96	530.97	1999.74	15.40	1.41
3218.00	61.40	15.90	2069.41	2082.67	2007.82	553.42	2082.70	15.41	1.23
3313.00	56.50	16.50	2118.39	2164.03	2085.96	576.11	2164.05	15.44	5.19
3406.00	52.10	16.90	2172.65	2239.53	2158.28	597.80	2239.54	15.48	4.74
3501.00	49.10	15.60	2232.94	2312.92	2228.74	618.35	2312.93	15.51	3.33
3594.00	44.00	16.00	2296.88	2380.41	2293.69	636.72	2380.42	15.51	5.49
3688.00	39.60	17.10	2366.94	2443.04	2353.74	654.54	2443.05	15.54	4.75
3781.00	36.10	17.40	2440.36	2500.08	2408.23	671.45	2500.08	15.58	3.77
3876.00	33.30	15.10	2518.46	2554.14	2460.13	686.62	2554.15	15.59	3.25
3969.00	29.30	15.50	2597.91	2602.45	2506.72	699.35	2602.45	15.59	4.31
4062.00	27.10	17.60	2679.87	2646.38	2548.85	711.84	2646.38	15.60	2.59
4156.00	21.60	17.30	2765.47	2685.10	2585.80	723.47	2685.10	15.63	5.85
4251.00	15.50	19.90	2855.50	2715.27	2614.46	733.00	2715.27	15.66	6.48
4343.00	9.80	22.50	2945.23	2735.32	2633.27	740.19	2735.32	15.70	6.22
4437.00	4.90	10.80	3038.43	2747.27	2644.61	744.00	2747.27	15.71	5.42
4499.00	1.10	10.80	3100.33	2750.51	2647.80	744.61	2750.51	15.71	6.13