

Job Number: 03195

Company: Devon Energy Prod. Co

Lease/Well: NEBU #61A

Location: San Juan County, Sec 19-31N-6W

Rig Name: DJ #1

RKB:

G.L. or M.S.L.:

State/Country: New Mexico / USA

Declination: 10.95 East

Grid:

File name: C:\CUST03\SURVEY\DEVON\03195.SVY

Date/Time: 13-Nov-03 / 15:57

Curve Name: As Drilled



30-045-31272

Surface: 200°/N 75°/E
BHL 1330/S 603°/E

INWELL INC.
DIRECTIONAL DRILLING SERVICES
HOUSTON, TEXAS
281-397-7614
888-397-7614

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane 196.62
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	C L O S U R E		Dogleg Severity Deg/100
Distance FT	Direction Deg								
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
310.00	1.40	196.80	309.97	3.79	-3.63	-1.09	3.79	196.80	.45
403.00	5.50	195.90	402.78	9.38	-9.00	-2.64	9.38	196.37	4.41
494.00	8.20	197.30	493.12	20.23	-19.39	-5.77	20.23	196.57	2.97
585.00	12.60	197.10	582.61	36.66	-35.08	-10.62	36.66	196.84	4.84
677.00	17.00	194.30	671.53	60.14	-57.72	-16.90	60.14	196.32	4.84
770.00	21.40	196.10	759.34	90.71	-87.21	-24.96	90.71	195.97	4.77
865.00	25.10	196.30	846.61	128.20	-123.21	-35.43	128.21	196.04	3.90
959.00	27.10	198.30	931.02	169.54	-162.68	-47.75	169.54	196.36	2.32
1055.00	30.40	195.30	1015.18	215.70	-206.89	-61.03	215.70	196.44	3.75
1150.00	32.30	197.50	1096.31	265.11	-254.28	-75.00	265.11	196.43	2.33
1244.00	34.70	196.60	1174.69	316.99	-303.88	-90.20	316.99	196.53	2.61
1338.00	39.60	197.50	1249.59	373.74	-358.13	-106.87	373.74	196.62	5.24
1433.00	44.10	197.50	1320.34	437.09	-418.56	-125.92	437.09	196.74	4.74
1526.00	45.50	198.00	1386.33	502.61	-480.97	-145.90	502.61	196.88	1.55
1619.00	45.30	196.80	1451.63	568.82	-544.16	-165.70	568.83	196.94	.94
1713.00	46.40	194.50	1517.11	636.25	-609.10	-183.88	636.25	196.80	2.11
1808.00	44.80	195.60	1583.57	704.09	-674.64	-201.50	704.09	196.63	1.88
1903.00	44.80	195.30	1650.98	771.02	-739.16	-219.33	771.02	196.53	.22
1997.00	45.40	194.80	1717.33	837.58	-803.46	-236.62	837.58	196.41	.74
2092.00	45.10	196.40	1784.22	905.03	-868.44	-254.76	905.04	196.35	1.24
2186.00	46.40	194.50	1849.81	972.34	-933.34	-272.68	972.36	196.29	2.00

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	
2281.00	46.00	193.30	1915.57	1040.83	-999.89	-289.16	1040.86	196.13	1.00
2374.00	45.70	197.00	1980.36	1107.51	-1064.28	-306.58	1107.56	196.07	2.87
2469.00	45.60	196.30	2046.76	1175.44	-1129.37	-326.05	1175.49	196.10	.54
2565.00	46.40	195.80	2113.45	1244.49	-1195.73	-345.14	1244.55	196.10	.91
Begin MWD Surveys @ 8268'MD									
2660.00	45.40	195.30	2179.56	1312.70	-1261.45	-363.43	1312.76	196.07	1.12
2755.00	45.60	195.00	2246.15	1380.44	-1326.86	-381.14	1380.51	196.03	.31
2848.00	44.50	197.50	2311.86	1446.25	-1390.04	-399.54	1446.32	196.04	2.24
2943.00	42.50	197.10	2380.76	1511.63	-1452.47	-418.99	1511.70	196.09	2.13
3038.00	41.20	197.30	2451.53	1575.01	-1513.02	-437.73	1575.06	196.14	1.38
3133.00	38.00	199.80	2524.72	1635.51	-1570.42	-456.95	1635.55	196.22	3.76
3227.00	33.50	202.80	2601.00	1690.23	-1621.59	-476.81	1690.24	196.39	5.14
3321.00	32.30	201.40	2679.92	1741.05	-1668.89	-496.03	1741.05	196.55	1.51
3414.00	27.70	200.80	2760.44	1787.39	-1712.26	-512.78	1787.39	196.67	4.96
3508.00	26.50	199.60	2844.12	1830.12	-1752.44	-527.57	1830.13	196.75	1.40
3602.00	24.30	196.10	2929.03	1870.42	-1790.78	-539.97	1870.42	196.78	2.83
3693.00	22.50	195.80	3012.54	1906.55	-1825.53	-549.91	1906.56	196.76	1.98
3789.00	18.00	200.30	3102.59	1939.74	-1857.14	-560.06	1939.75	196.78	4.96
3883.00	14.60	198.60	3192.80	1966.08	-1881.99	-568.88	1966.09	196.82	3.65
3977.00	12.90	195.30	3284.10	1988.41	-1903.34	-575.43	1988.43	196.82	1.99
4071.00	11.10	195.60	3376.05	2007.95	-1922.18	-580.63	2007.96	196.81	1.92
4164.00	9.40	192.30	3467.56	2024.48	-1938.23	-584.66	2024.49	196.79	1.93
4258.00	5.50	195.80	3560.75	2036.64	-1950.07	-587.52	2036.65	196.77	4.18