



Job Number:
Company: Williams Production Company
Lease/Well: Rosa Unit #208
Location: San Juan County 208Y
Rig Name:
RKB: 6340'
G.L. or M.S.L.: 6326'

State/Country: New Mexico
Declination:
Grid:
File name: C:\DATA\CUST06\SURVEYS\TEMP\06207.SVY
Date/Time: 05-Jul-06 / 09:26
Curve Name: As Drilled

30-045-33854

16-31N-6W

Inwell Inc.

surf: 605/N 440/E

Last survey: 653/N 551/W sec 15

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane 92.81
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

This is NSL - we need
a BHL survey to determine
if this is standard.

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
400.00	.00	.00	400.00	.00	.00	.00	.00	.00	.00
428.00	.30	109.00	428.00	.07	-.02	.07	.07	108.99	1.07
458.00	1.90	105.60	457.99	.63	-.18	.62	.65	106.39	5.34
489.00	3.20	108.30	488.96	1.97	-.59	1.94	2.03	107.01	4.21
519.00	4.40	103.80	518.90	3.90	-1.13	3.85	4.01	106.36	4.12
549.00	5.70	103.80	548.78	6.49	-1.76	6.42	6.65	105.34	4.33
580.00	6.70	103.30	579.60	9.78	-2.54	9.67	10.00	104.74	3.23
610.00	7.80	101.20	609.36	13.52	-3.34	13.37	13.78	104.03	3.77
641.00	8.50	96.70	640.04	17.89	-4.02	17.71	18.16	102.78	3.05
672.00	9.60	93.40	670.66	22.76	-4.44	22.57	23.00	101.13	3.92
702.00	10.00	94.60	700.22	27.86	-4.80	27.66	28.07	99.84	1.50
732.00	11.00	93.30	729.72	33.33	-5.17	33.11	33.51	98.87	3.43
762.00	12.60	93.60	759.08	39.46	-5.54	39.24	39.63	98.04	5.34
793.00	14.00	91.80	789.25	46.59	-5.87	46.36	46.73	97.22	4.71
824.00	14.80	91.40	819.28	54.30	-6.08	54.07	54.41	96.42	2.60
854.00	15.50	91.20	848.23	62.14	-6.26	61.90	62.22	95.78	2.34
884.00	16.90	93.40	877.04	70.51	-6.60	70.27	70.58	95.37	5.09
915.00	18.70	94.20	906.56	79.98	-7.24	79.72	80.05	95.19	5.86
945.00	19.80	95.10	934.88	89.86	-8.04	89.58	89.94	95.13	3.80
976.00	20.90	94.30	963.94	100.64	-8.92	100.32	100.72	95.08	3.66
1006.00	22.10	94.30	991.86	111.63	-9.75	111.29	111.71	95.00	4.00
1037.00	23.70	93.70	1020.41	123.69	-10.58	123.32	123.77	94.91	5.22
1067.00	24.80	92.70	1047.76	136.01	-11.27	135.62	136.09	94.75	3.91
1098.00	25.50	91.70	1075.82	149.18	-11.77	148.79	149.25	94.52	2.64

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	
1128.00	26.00	90.90	1102.85	162.21	-12.07	161.82	162.26	94.27	2.03
1159.00	26.30	91.00	1130.67	175.87	-12.30	175.48	175.91	94.01	.98
1189.00	27.40	91.80	1157.44	189.41	-12.63	189.02	189.44	93.82	3.86
1220.00	28.40	92.50	1184.83	203.92	-13.17	203.52	203.94	93.70	3.39
1249.00	29.30	91.90	1210.23	217.91	-13.71	217.50	217.93	93.61	3.26
1280.00	28.70	92.30	1237.35	232.94	-14.26	232.52	232.95	93.51	2.03
1344.00	29.80	92.00	1293.19	264.21	-15.43	263.77	264.22	93.35	1.73
1376.00	29.80	91.60	1320.96	280.11	-15.93	279.66	280.12	93.26	.62
1406.00	29.70	91.50	1347.00	294.99	-16.33	294.54	295.00	93.17	.37
1438.00	29.60	91.50	1374.81	310.82	-16.75	310.37	310.82	93.09	.31
1469.00	29.70	91.20	1401.75	326.15	-17.11	325.70	326.15	93.01	.58
1501.00	30.70	91.40	1429.41	342.24	-17.48	341.79	342.24	92.93	3.14
1533.00	30.60	91.60	1456.94	358.55	-17.90	358.10	358.55	92.86	.45
1564.00	31.00	91.60	1483.57	374.42	-18.35	373.97	374.42	92.81	1.29
1595.00	30.80	91.50	1510.17	390.33	-18.78	389.88	390.33	92.76	.67
1627.00	31.20	92.40	1537.60	406.81	-19.34	406.35	406.81	92.72	1.91
1659.00	31.00	92.00	1565.00	423.34	-19.97	422.87	423.34	92.70	.90
1690.00	31.20	91.30	1591.54	439.35	-20.43	438.87	439.35	92.67	1.33
1721.00	31.10	91.00	1618.07	455.38	-20.76	454.91	455.38	92.61	.60
1752.00	31.40	90.80	1644.57	471.45	-21.01	470.99	471.45	92.55	1.02
1783.00	31.30	91.00	1671.05	487.57	-21.26	487.11	487.58	92.50	.47
1815.00	30.70	92.60	1698.48	504.05	-21.78	503.58	504.05	92.48	3.19
1846.00	30.40	93.60	1725.17	519.80	-22.63	519.32	519.81	92.49	1.90
1878.00	30.60	94.40	1752.75	536.04	-23.76	535.52	536.05	92.54	1.41
1909.00	30.40	92.70	1779.46	551.77	-24.74	551.22	551.78	92.57	2.86
1941.00	30.10	92.90	1807.10	567.89	-25.52	567.32	567.90	92.58	.99
1973.00	29.90	92.60	1834.81	583.89	-26.29	583.30	583.90	92.58	.78
2004.00	30.00	92.60	1861.67	599.37	-26.99	598.76	599.37	92.58	.32
2036.00	30.40	92.50	1889.33	615.46	-27.71	614.85	615.47	92.58	1.26
2067.00	30.20	92.40	1916.09	631.10	-28.38	630.47	631.11	92.58	.67
2098.00	30.40	92.00	1942.86	646.74	-28.98	646.10	646.75	92.57	.92
2130.00	31.20	91.90	1970.35	663.13	-29.54	662.48	663.13	92.55	2.51
2162.00	31.10	92.00	1997.73	679.68	-30.10	679.02	679.69	92.54	.35
2193.00	31.20	90.90	2024.26	695.71	-30.50	695.05	695.72	92.51	1.86
2224.00	31.80	91.00	2050.70	711.90	-30.77	711.24	711.91	92.48	1.94
2256.00	31.90	91.30	2077.88	728.78	-31.11	728.13	728.79	92.45	.59
2287.00	32.20	92.50	2104.15	745.22	-31.66	744.57	745.24	92.43	2.27
2319.00	32.50	93.60	2131.19	762.35	-32.57	761.67	762.36	92.45	2.06
2351.00	32.10	93.80	2158.23	779.44	-33.67	778.73	779.46	92.48	1.29
2382.00	31.60	93.60	2184.57	795.80	-34.73	795.05	795.81	92.50	1.65
2414.00	30.30	94.00	2212.01	812.25	-35.82	811.47	812.26	92.53	4.11
2445.00	28.70	95.10	2238.99	827.51	-37.03	826.69	827.52	92.56	5.45
2476.00	28.40	95.10	2266.22	842.32	-38.34	841.45	842.32	92.61	.97
2508.00	28.00	94.40	2294.42	857.43	-39.60	856.52	857.43	92.65	1.62
2540.00	28.10	93.80	2322.66	872.47	-40.67	871.53	872.47	92.67	.94

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	
2571.00	28.30	93.30	2349.98	887.12	-41.58	886.15	887.12	92.69	1.00
2603.00	28.90	93.60	2378.08	902.44	-42.50	901.44	902.44	92.70	1.93
2634.00	28.90	93.40	2405.22	917.42	-43.42	916.39	917.42	92.71	.31
2666.00	29.50	93.50	2433.15	933.03	-44.35	931.97	933.03	92.72	1.88
2697.00	29.60	93.50	2460.12	948.32	-45.29	947.23	948.32	92.74	.32
2729.00	28.40	94.30	2488.11	963.83	-46.34	962.71	963.83	92.76	3.94
2761.00	27.10	92.20	2516.43	978.72	-47.19	977.58	978.72	92.76	5.08
Projected to TD									
2792.00	25.90	95.90	2544.17	992.55	-48.16	991.38	992.55	92.78	6.58

Company: Williams Production Company
 Lease/Well: Rosa Unit # 208-A FC
 Location: San Juan County
 State/Country: New Mexico

