

DIST. 3



Job Number:
Company: Williams Production Co.
Lease/Well: Rosa Unit 235-A FC
Location: San Juan County
Rig Name:
RKB: 14'
G.L. or M.S.L.: 6386'

State/Country: NM
Declination:
Grid:
File name: C:\DATA\CUST06\SURVEYS\WILLIAMS\06265.SVY
Date/Time: 06-Feb-07 / 14:19
Curve Name: AS Drilled

30-045-33804

Inwell Inc.

Surface 1635/S 2580/E
BHL 2314/S 1652/E

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane 54.03
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

md 3376
Tcd 3067

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
300.00	.00	.00	300.00	.00	.00	.00	.00	.00	.00
362.00	.40	58.30	362.00	.11	.18	.22	.22	58.30	.65
423.00	1.30	62.80	422.99	.54	.98	1.11	1.12	61.08	1.48
514.00	4.00	56.50	513.89	2.77	4.55	5.30	5.32	58.68	2.98
605.00	6.40	53.80	604.51	7.51	11.29	13.55	13.56	56.35	2.65
697.00	9.60	55.40	695.60	14.90	21.74	26.35	26.36	55.58	3.49
788.00	13.50	53.70	784.74	25.50	36.55	44.56	44.57	55.10	4.30
880.00	16.90	53.40	873.51	39.84	55.95	68.68	68.68	54.55	3.70
970.00	20.30	53.80	958.79	56.86	79.06	97.38	97.38	54.27	3.78
1062.00	24.20	53.90	1043.93	77.40	107.18	132.21	132.21	54.16	4.24
1149.00	27.50	54.40	1122.21	99.61	137.93	170.14	170.14	54.16	3.80
1243.00	30.70	53.70	1204.34	126.46	174.92	215.85	215.85	54.14	3.42
1338.00	34.20	53.60	1284.49	156.67	215.97	266.81	266.81	54.04	3.68
1433.00	37.50	53.40	1361.48	189.76	260.69	322.44	322.44	53.95	3.48
1526.00	39.70	54.20	1434.16	224.02	307.51	380.45	380.45	53.93	2.43
1621.00	40.60	55.40	1506.77	259.32	357.57	441.70	441.70	54.05	1.25
1716.00	40.60	56.60	1578.91	293.89	408.82	503.49	503.49	54.29	.82
1809.00	38.70	55.50	1650.51	327.02	458.05	562.79	562.80	54.48	2.18
1904.00	37.70	54.50	1725.17	360.71	506.17	621.52	621.55	54.53	1.24
1999.00	38.20	52.70	1800.08	395.38	553.19	679.94	679.96	54.45	1.28
2091.00	38.00	52.90	1872.48	429.70	598.41	736.69	736.70	54.32	.26
2186.00	34.90	53.40	1948.88	463.55	643.56	793.12	793.13	54.24	3.28
2280.00	32.50	52.80	2027.08	494.86	685.27	845.27	845.27	54.17	2.58
2373.00	28.30	52.10	2107.28	523.52	722.58	892.30	892.30	54.08	4.53

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Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
2466.00	25.50	51.50	2190.21	549.53	755.65	934.34	934.34	53.97	3.02
2561.00	22.80	52.50	2276.88	573.47	786.26	973.18	973.18	53.89	2.87
2655.00	21.40	54.40	2363.98	594.54	814.66	1008.53	1008.54	53.88	1.67
2749.00	19.20	52.30	2452.13	613.98	840.84	1041.14	1041.14	53.86	2.47
2843.00	16.90	54.40	2541.50	631.39	864.18	1070.25	1070.26	53.85	2.54
2937.00	12.90	53.40	2632.32	645.60	883.72	1094.42	1094.42	53.85	4.26
3031.00	9.60	51.30	2724.51	656.76	898.26	1112.74	1112.75	53.83	3.54
3125.00	7.70	52.80	2817.43	665.47	909.40	1126.87	1126.88	53.80	2.04
3220.00	5.20	58.00	2911.82	671.60	918.12	1137.53	1137.54	53.81	2.70
3329.00	4.40	53.70	3020.44	676.69	925.68	1146.64	1146.65	53.83	.80

Projected to Bit									
3376.00	4.06	51.85	3067.31	678.79	928.44	1150.10	1150.11	53.83	.78

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