



Job Number: ☐
Company: Williams Production Co.
Lease/Well: Rosa Unit # 167-C MV
Location: San Juan County
Rig Name: ☐
RKB: ☐
G.L. or M.S.L.: 6379'

State/Country: NM
Declination: ☐
Grid: ☐
File name: C:\DATA\CUST06\SURVEYS\WILLIAMS\06260.SVY
Date/Time: 01-Nov-06 / 13:44
Curve Name: As Drilled

30-045-33895

Surface 480/16 570/16 Sec 16, T31N R6W
BNL 722/16 745/16 Inwell Inc.
Sec 8 J 31N R6W

RCVD FEB9'07

OIL CONS. DIV.

DIST. 3

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane 312.90
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

Mc 65/16
JVD 5989

2-16-07

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
300.00	.00	.00	300.00	.00	.00	.00	.00	.00	.00
362.00	1.60	165.20	361.99	-.73	-.84	.22	.87	165.20	2.58
453.00	.10	25.90	452.98	-1.78	-1.99	.58	2.08	163.77	1.84
545.00	3.60	322.30	544.92	1.09	.36	-1.15	1.21	287.57	3.87
636.00	7.70	315.70	635.46	10.00	6.99	-7.16	10.01	314.32	4.55
727.00	11.00	312.90	725.24	24.78	17.27	-17.78	24.78	314.16	3.66
819.00	13.70	309.90	815.10	44.44	30.23	-32.57	44.44	312.87	3.02
909.00	17.30	308.70	901.81	68.44	45.44	-51.20	68.45	311.59	4.02
1000.00	19.40	308.80	988.18	97.01	63.37	-73.54	97.08	310.75	2.31
1087.00	22.30	309.90	1069.48	127.91	83.02	-97.47	128.03	310.42	3.36
1179.00	24.50	311.20	1153.91	164.41	106.78	-125.21	164.56	310.46	2.46
1277.00	26.50	313.80	1242.36	206.59	135.30	-156.29	206.72	310.88	2.34
1371.00	29.00	314.40	1325.54	250.35	165.77	-187.71	250.43	311.45	2.68
1466.00	30.90	314.00	1407.85	297.76	198.83	-221.71	297.81	311.89	2.01
1561.00	34.20	312.80	1487.92	348.86	233.92	-258.86	348.90	312.10	3.54
1654.00	37.00	313.80	1563.53	402.99	271.06	-298.24	403.02	312.27	3.08
1749.00	40.50	313.90	1637.61	462.44	312.25	-341.12	462.45	312.47	3.68
1843.00	43.30	313.40	1707.56	525.20	355.57	-386.54	525.21	312.61	3.00
1937.00	46.00	313.00	1774.43	591.25	400.78	-434.69	591.26	312.68	2.89
2032.00	47.70	314.10	1839.40	660.55	448.54	-484.92	660.55	312.77	1.98
2126.00	45.60	314.00	1903.92	728.89	496.06	-534.04	728.89	312.89	2.24
2221.00	44.80	313.60	1970.86	796.29	542.72	-582.69	796.29	312.97	.89
2315.00	45.80	313.80	2036.98	863.10	588.88	-631.00	863.10	313.02	1.07
2410.00	46.10	314.20	2103.03	931.36	636.31	-680.11	931.37	313.09	.44

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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	
2504.00	46.50	315.10	2167.98	999.29	684.07	-728.46	999.30	313.20	.81
2599.00	45.40	314.30	2234.03	1067.53	732.10	-776.99	1067.56	313.30	1.31
2694.00	43.10	313.00	2302.08	1133.81	777.86	-824.94	1133.84	313.32	2.60
2788.00	39.40	311.40	2372.74	1195.77	819.51	-870.82	1195.79	313.26	4.09
2883.00	37.30	309.00	2447.24	1254.64	857.57	-915.81	1254.65	313.12	2.71
2977.00	32.10	310.00	2524.50	1308.03	891.57	-957.11	1308.03	312.97	5.56
3072.00	30.70	311.20	2605.58	1357.49	923.77	-994.69	1357.49	312.88	1.61
3167.00	29.10	311.50	2687.93	1404.82	955.06	-1030.24	1404.82	312.83	1.69
3261.00	27.90	311.00	2770.54	1449.66	984.63	-1063.96	1449.66	312.78	1.30
3354.00	28.00	311.30	2852.69	1493.22	1013.31	-1096.78	1493.23	312.73	.19
3448.00	25.00	312.00	2936.81	1535.15	1041.17	-1128.13	1535.16	312.70	3.21
3542.00	20.50	313.20	3023.47	1571.49	1065.75	-1154.90	1571.50	312.70	4.81
3637.00	17.70	313.10	3113.24	1602.57	1087.00	-1177.58	1602.58	312.71	2.95
3736.00	15.30	311.70	3208.15	1630.69	1105.98	-1198.32	1630.69	312.71	2.46
3823.00	15.20	313.90	3292.09	1653.56	1121.52	-1215.11	1653.57	312.71	.67
3918.00	12.90	315.00	3384.24	1676.62	1137.66	-1231.58	1676.62	312.73	2.44
4013.00	11.00	314.30	3477.18	1696.28	1151.49	-1245.57	1696.28	312.75	2.01
4108.00	7.00	320.50	3570.99	1711.08	1162.29	-1255.74	1711.09	312.79	4.33
4215.00	3.80	303.80	3677.51	1721.05	1169.30	-1262.84	1721.05	312.80	3.30
4262.00	2.39	296.46	3724.44	1723.53	1170.60	-1265.01	1723.53	312.78	3.11
6004.00	1.00	312.00	5465.64	1773.57	1196.96	-1308.83	1773.62	312.44	.08
Projected to TD									
6618.00	.50	313.00	6079.59	1781.60	1202.37	-1314.77	1781.66	312.44	.08

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 State/Country: NM

