

District I
1625 N. French Dr., Hobbs, NM 88240

District II
1301 W. Grand Avenue, Artesia, NM 88210

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised October 12, 2005
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

"AS DRILLED PLAT"

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-039-30748		2 Pool Code 72319 / 71599		3 Pool Name BLANCO MESAVERDE / BASIN DAKOTA	
4 Property Code 31326		5 Property Name SAN JUAN 29-6 UNIT			6 Well Number 5M
7 OGRID No. 217817		8 Operator Name CONOCOPHILLIPS COMPANY			9 Elevation 6692'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	30	29N	6W		1140	SOUTH	1665	WEST	RIO ARriba

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	30	29N	6W		1769'	SOUTH	686'	WEST	RIO ARriba

12 Dedicated Acres 320.0 Acres - (W/2)	13 Joint or Infill	14 Consolidation Code	15 Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16 5272.08' LEASE SF-078426 30 5280.00' 686' 1495' 1920' 1665' 965' 1140' 5272.08' SURFACE LOCATION LAT: 36°41.5544'N LONG: 107°30.4220'W DATUM: NAD27 LAT: 36.69258°N LONG: 107.50764°W DATUM: NAD83		17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom-hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Patsy Clugston</i> 12/13/10 Signature Date Patsy Clugston Printed Name 18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Survey Date: NOVEMBER 13, 2008 Signature and Seal of Professional Surveyor <i>JASON C. EDWARDS</i> 15269 REGISTERED PROFESSIONAL SURVEYOR NEW MEXICO <i>JASON C. EDWARDS</i> Certificate Number 15269
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Legal WellName : SAN JUAN 29-6 UNIT #5M	API / UWI: 3003930748
Operator: CONOCOPHILLIPS COMPANY	Surf Loc: 030-029N-006W-N
St/Prov: NEW MEXICO	N/S Dist (ft): 1,140.00 - FSL
County: RIO ARriba	E/W Dist (ft): 1,665.00 - FWL

Wellbore Name : Original Hole				
Description	Date	MD Tie In (ft)	Inclination Tie In (°)	Azimuth Tie In (°)
INCLINATION SURVEY	09/27/2010	.00	.00	.00

Date	MD (ft)	Incl (°)	Azm (°)	Method	Survey Company
09/27/2010	130.00	.50	.00	Inc-WL	MOTE
09/27/2010	235.00	.75	.00	Inc-WL	MOTE

Description	Date	MD Tie In (ft)	Inclination Tie In (°)	Azimuth Tie In (°)
DIRECTIONAL SURVEY	10/12/2010	.00	.00	.00

Date	MD (ft)	Incl (°)	Azm (°)	Method	Survey Company
10/12/2010	.00	.00	.00	IncAzi-MWD	Scientific Drilling
10/12/2010	275.00	.37	174.37	IncAzi-MWD	Scientific Drilling
10/12/2010	306.00	.72	252.84	IncAzi-MWD	Scientific Drilling
10/12/2010	337.00	1.45	281.07	IncAzi-MWD	Scientific Drilling
10/12/2010	368.00	1.99	284.94	IncAzi-MWD	Scientific Drilling
10/12/2010	398.00	2.64	290.96	IncAzi-MWD	Scientific Drilling
10/12/2010	429.00	3.47	294.61	IncAzi-MWD	Scientific Drilling
10/12/2010	491.00	5.09	302.95	IncAzi-MWD	Scientific Drilling
10/12/2010	553.00	6.82	307.84	IncAzi-MWD	Scientific Drilling
10/12/2010	614.00	8.58	305.26	IncAzi-MWD	Scientific Drilling
10/12/2010	676.00	10.88	303.35	IncAzi-MWD	Scientific Drilling
10/12/2010	738.00	12.79	303.08	IncAzi-MWD	Scientific Drilling
10/12/2010	800.00	15.10	302.43	IncAzi-MWD	Scientific Drilling
10/12/2010	862.00	16.89	301.85	IncAzi-MWD	Scientific Drilling
10/12/2010	923.00	18.10	303.86	IncAzi-MWD	Scientific Drilling
10/12/2010	985.00	20.32	303.90	IncAzi-MWD	Scientific Drilling
10/12/2010	1,047.00	22.52	302.52	IncAzi-MWD	Scientific Drilling
10/12/2010	1,108.00	24.24	301.42	IncAzi-MWD	Scientific Drilling
10/13/2010	1,170.00	25.99	300.54	IncAzi-MWD	Scientific Drilling
10/13/2010	1,231.00	27.69	300.57	IncAzi-MWD	Scientific Drilling
10/13/2010	1,293.00	28.72	302.47	IncAzi-MWD	Scientific Drilling
10/13/2010	1,354.00	29.28	301.85	IncAzi-MWD	Scientific Drilling
10/13/2010	1,417.00	30.14	301.51	IncAzi-MWD	Scientific Drilling
10/13/2010	1,480.00	29.92	299.94	IncAzi-MWD	Scientific Drilling
10/13/2010	1,542.00	30.58	300.42	IncAzi-MWD	Scientific Drilling
10/13/2010	1,606.00	30.96	300.19	IncAzi-MWD	Scientific Drilling
10/13/2010	1,669.00	31.28	299.18	IncAzi-MWD	Scientific Drilling

10/13/2010	1,732.00	30.80	298.32	IncAzi-MWD	Scientific Drilling
10/13/2010	1,795.00	29.81	299.08	IncAzi-MWD	Scientific Drilling
10/13/2010	1,858.00	28.64	301.12	IncAzi-MWD	Scientific Drilling
10/13/2010	1,921.00	26.87	303.38	IncAzi-MWD	Scientific Drilling
10/13/2010	1,984.00	26.32	303.99	IncAzi-MWD	Scientific Drilling
10/13/2010	2,047.00	27.02	303.56	IncAzi-MWD	Scientific Drilling
10/13/2010	2,110.00	26.33	304.03	IncAzi-MWD	Scientific Drilling
10/13/2010	2,173.00	26.52	304.45	IncAzi-MWD	Scientific Drilling
10/13/2010	2,236.00	27.24	304.75	IncAzi-MWD	Scientific Drilling
10/13/2010	2,300.00	28.75	305.70	IncAzi-MWD	Scientific Drilling
10/13/2010	2,363.00	29.04	305.63	IncAzi-MWD	Scientific Drilling
10/13/2010	2,426.00	28.75	304.93	IncAzi-MWD	Scientific Drilling
10/13/2010	2,489.00	28.19	304.38	IncAzi-MWD	Scientific Drilling
10/13/2010	2,552.00	28.29	305.73	IncAzi-MWD	Scientific Drilling
10/13/2010	2,615.00	29.51	305.31	IncAzi-MWD	Scientific Drilling
10/13/2010	2,678.00	29.16	304.20	IncAzi-MWD	Scientific Drilling
10/13/2010	2,741.00	26.52	303.31	IncAzi-MWD	Scientific Drilling
10/13/2010	2,804.00	24.72	303.34	IncAzi-MWD	Scientific Drilling
10/13/2010	2,868.00	22.18	304.18	IncAzi-MWD	Scientific Drilling
10/13/2010	2,931.00	20.61	304.38	IncAzi-MWD	Scientific Drilling
10/13/2010	2,994.00	19.59	303.21	IncAzi-MWD	Scientific Drilling
10/13/2010	3,057.00	17.26	303.00	IncAzi-MWD	Scientific Drilling
10/13/2010	3,120.00	14.30	304.98	IncAzi-MWD	Scientific Drilling
10/13/2010	3,183.00	12.17	310.27	IncAzi-MWD	Scientific Drilling
10/13/2010	3,247.00	10.60	310.74	IncAzi-MWD	Scientific Drilling
10/13/2010	3,309.00	8.72	302.49	IncAzi-MWD	Scientific Drilling
10/14/2010	3,372.00	7.39	296.03	IncAzi-MWD	Scientific Drilling
10/14/2010	3,435.00	5.90	300.90	IncAzi-MWD	Scientific Drilling
10/14/2010	3,498.00	5.55	298.36	IncAzi-MWD	Scientific Drilling
10/14/2010	3,562.00	5.25	296.16	IncAzi-MWD	Scientific Drilling
10/14/2010	3,625.00	5.17	294.73	IncAzi-MWD	Scientific Drilling
10/14/2010	3,688.00	5.10	292.49	IncAzi-MWD	Scientific Drilling
10/14/2010	3,752.00	4.56	292.74	IncAzi-MWD	Scientific Drilling
10/14/2010	3,815.00	2.65	303.60	IncAzi-MWD	Scientific Drilling
10/14/2010	3,878.00	.97	352.04	IncAzi-MWD	Scientific Drilling
10/14/2010	3,942.00	.71	71.29	IncAzi-MWD	Scientific Drilling
10/14/2010	4,005.00	.66	60.85	IncAzi-MWD	Scientific Drilling
10/14/2010	4,061.00	.55	72.66	IncAzi-MWD	Scientific Drilling
10/14/2010	4,118.00	.55	72.66	IncAzi-MWD	Scientific Drilling
Description	Date	MD Tie In (ft)	Inclination Tie In (°)	Azimuth Tie In (°)	
FINAL BH SURVEY	11/08/2010	.00	.00	.00	
Date	MD (ft)	Incl (°)	Azm (°)	Method	Survey Company
11/08/2010	8,250.00	.50	.00	Inc-WL	Phoenix Services LLC

I, the undersigned, certify that I, acting in my capacity as Drilling Engineer for ConocoPhillips Company am authorized by said Company to make this report; and that said report was

prepared under my supervision and directions, and that the facts stated herein are true to the best of my knowledge and belief.

Todd DeLamater

Subscribed and sworn to me this December 13, 2010

Rosal L. Tafaya

Notary Public in and for San Juan County, New Mexico

My Commission expires 10/12/2019

ConocoPhillips

SJB (NM Central)
SEC 30-T29NR-6W
SJ 29-6 #5M

Original Hole



Survey: Actual

Standard Survey Report

28 October, 2010

API- 30-039- 30748

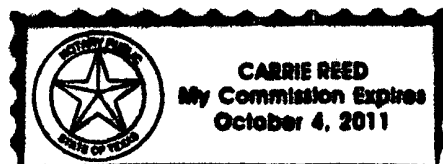
This survey is correct to the best of my knowledge and is supported by actual field data.

Richard

Notorized this date 2nd of October, 2010.

Carrie Reed

Notary Signature
County of Midland
State of Texas

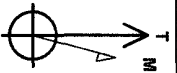




Scientific Drilling
Directional Drilling Operations

Project: SJB (NM Central)
Site: SEC 30-T29NR-6W
Well: SJ 29-6 #5M
Wellbore: Original Hole
Design: Plan #2

ConocoPhillips



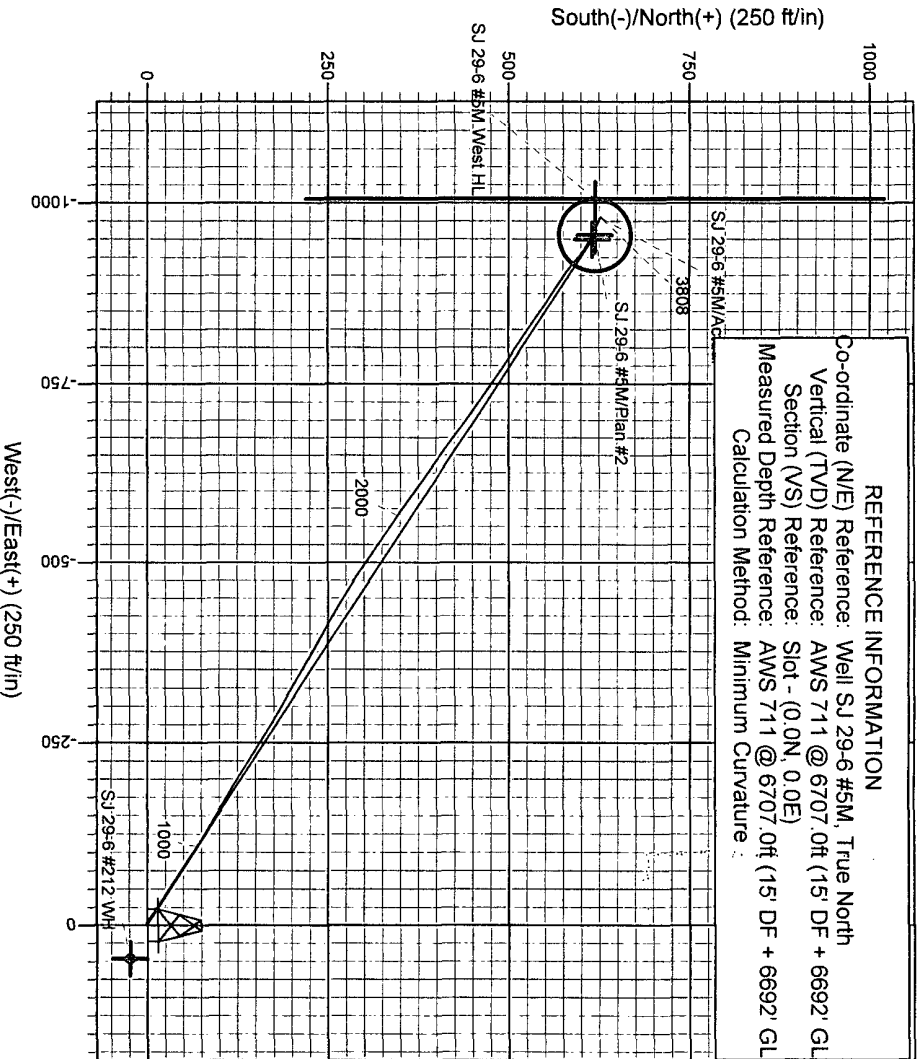
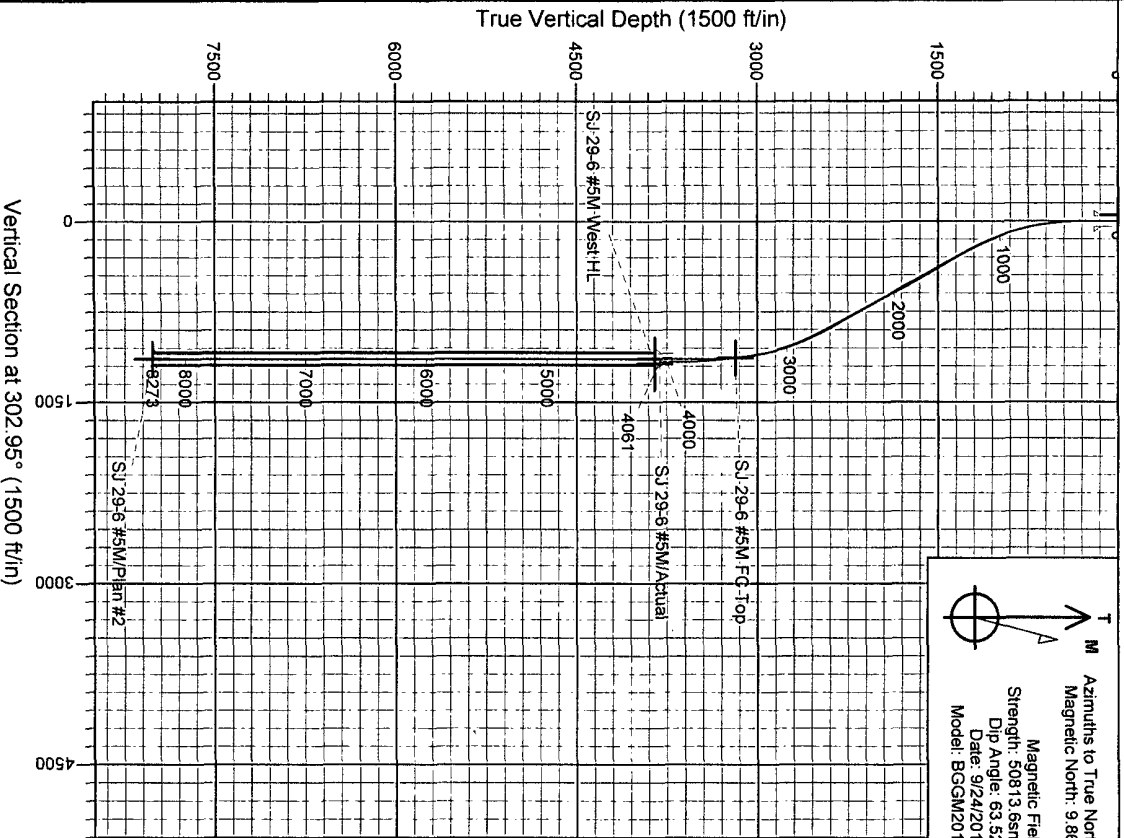
Azinuths to True North
Magnetic North: 9.86°
Magnetic Field
Strength: 50813.6nT
Dip Angle: 63.52°
Date: 9/24/2010
Model: BGGM2010

+N-S 0.0
+E-W 0.0
Northing 2073732.16

WELL DETAILS: SJ 29-6 #5M
AWS 711 @ 6707.0ft (15' DF + 6692' GL)
Ground Level: 6692.0
Easting 131452.27
Latitude 36° 41' 33.264 N

Longitude 107° 30' 25.320 W

Slot



REFERENCE INFORMATION
Co-ordinate (N/E) Reference: Well SJ 29-6 #5M, True North
Vertical (TVD) Reference: AWS 711 @ 6707.0ft (15' DF + 6692' GL)
Section (VS) Reference: Slot - (0.0N, 0.0E)
Measured Depth Reference: AWS 711 @ 6707.0ft (15' DF + 6692' GL)
Calculation Method: Minimum Curvature

COMPANY DETAILS: ConocoPhillips
Calculation Method: Minimum Curvature
Error System: ISCWSA
Scan Method: Closest Approach 3D
Error Surface: Combined Covariances
Warning Method: Risk Ratio

PROJECT DETAILS: SJB (NM Central)
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico Central 3002
System Datum: Mean Sea Level

SITE DETAILS: SEC 30-T29NR-6W
Rio Arriba County NM
Site Centre Latitude: 36° 41' 33.264 N
Longitude: 107° 30' 25.320 W
Positional Uncertainty: 7.5
Convergence: -0.75
Local North: True

Scientific Drilling International, Inc.

Survey Report

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well SJ 29-6 #5M
Project:	SJB (NM Central)	TVD Reference:	AWS 711 @ 6707.0ft (15' DF + 6692' GL)
Site:	SEC 30-T29NR-6W	MD Reference:	AWS 711 @ 6707.0ft (15' DF + 6692' GL)
Well:	SJ 29-6 #5M	North Reference:	True
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	edmCOP

Project	SJB (NM Central), New Mexico, S-Type MV/DK Wells		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		Using Well Reference Point
Map Zone:	New Mexico Central 3002		Using geodetic scale factor

Site		SEC 30-T29NR-6W			
Site Position:		Northing:	2,073,732.16 ft	Latitude:	36° 41' 33.264 N
From:	Lat/Long	Easting:	131,452.27 ft	Longitude:	107° 30' 25.320 W
Position Uncertainty:	15.0 ft	Slot Radius:	6-1/8"	Grid Convergence:	-0.75 °

Well	SJ 29-6 #5M					
Well Position	+N/-S	0.0 ft	Northing:	2,073,732.16 ft	Latitude:	36° 41' 33.264 N
	+E/-W	0.0 ft	Easting:	131,452.27 ft	Longitude:	107° 30' 25.320 W
Position Uncertainty		3.5 ft	Wellhead Elevation:	ft	Ground Level:	6,692.0 ft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2010	9/24/2010	9.86	63.52	50,814

Design	Original Hole				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	302.72	

Survey Program	Date	10/28/2010		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
275.0	4,061.0	Actual (Original Hole)	MWD SDI	MWD - Standard ver 1.0.1

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
275.0	0.37	174.37	275.0	-0.9	0.1	-0.6	0.13	0.13	0.00	
306.0	0.72	252.84	306.0	-1.0	-0.1	-0.5	2.39	1.13	253.13	
337.0	1.45	281.07	337.0	-1.0	-0.7	0.0	2.85	2.35	91.06	
368.0	1.99	284.94	368.0	-0.8	-1.6	0.9	1.78	1.74	12.48	
398.0	2.64	290.96	398.0	-0.4	-2.7	2.1	2.31	2.17	20.07	
429.0	3.47	294.61	428.9	0.2	-4.2	3.7	2.75	2.68	11.77	
491.0	5.09	302.95	490.7	2.5	-8.2	8.3	2.79	2.61	13.45	
553.0	6.82	307.84	552.4	6.3	-13.5	14.7	2.91	2.79	7.89	
614.0	8.58	305.26	612.8	11.1	-20.0	22.9	2.94	2.89	-4.23	
676.0	10.88	303.35	673.9	17.0	-28.7	33.3	3.75	3.71	-3.08	
738.0	12.79	303.08	734.6	24.0	-39.3	46.0	3.08	3.08	-0.44	
800.0	15.10	302.43	794.8	32.0	-51.9	61.0	3.73	3.73	-1.05	

Scientific Drilling International, Inc.

Survey Report

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well SJ 29-6 #5M
Project:	SJB (NM Central)	TVD Reference:	AWS 711 @ 6707.0ft (15' DF + 6692' GL)
Site:	SEC 30-T29NR-6W	MD Reference:	AWS 711 @ 6707.0ft (15' DF + 6692' GL)
Well:	SJ 29-6 #5M	North Reference:	True
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	edmCOP

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
862.0	16.89	301.85	854.4	41.1	-66.4	78.1	2.90	2.89	-0.94
923.0	18.10	303.86	912.6	51.1	-81.8	96.4	2.22	1.98	3.30
985.0	20.32	303.90	971.1	62.4	-98.7	116.8	3.58	3.58	0.06
1,047.0	22.52	302.52	1,028.8	74.8	-117.7	139.4	3.64	3.55	-2.23
1,108.0	24.24	301.42	1,084.8	87.6	-138.2	163.6	2.91	2.82	-1.80
1,170.0	25.99	300.54	1,141.0	101.2	-160.8	189.9	2.89	2.82	-1.42
1,231.0	27.69	300.57	1,195.4	115.2	-184.5	217.5	2.79	2.79	0.05
1,293.0	28.72	302.47	1,250.0	130.5	-209.4	246.8	2.20	1.66	3.06
1,354.0	29.28	301.85	1,303.4	146.2	-234.5	276.3	1.04	0.92	-1.02
1,417.0	30.14	301.51	1,358.1	162.6	-261.1	307.5	1.39	1.37	-0.54
1,480.0	29.92	299.94	1,412.6	178.7	-288.2	339.1	1.30	-0.35	-2.49
1,542.0	30.58	300.42	1,466.2	194.4	-315.2	370.3	1.13	1.06	0.77
1,606.0	30.96	300.19	1,521.2	211.0	-343.4	403.0	0.62	0.59	-0.36
1,669.0	31.28	299.18	1,575.1	227.1	-371.7	435.5	0.97	0.51	-1.60
1,732.0	30.80	298.32	1,629.1	242.7	-400.2	467.9	1.04	-0.76	-1.37
1,795.0	29.81	299.08	1,683.5	258.0	-428.1	499.6	1.69	-1.57	1.21
1,858.0	28.64	301.12	1,738.5	273.4	-454.7	530.3	2.44	-1.86	3.24
1,921.0	26.87	303.38	1,794.2	289.0	-479.5	559.7	3.27	-2.81	3.59
1,984.0	26.32	303.99	1,850.6	304.7	-503.0	587.8	0.97	-0.87	0.97
2,047.0	27.02	303.56	1,906.9	320.4	-526.5	616.1	1.15	1.11	-0.68
2,110.0	26.33	304.03	1,963.1	336.1	-550.0	644.4	1.15	-1.10	0.75
2,173.0	26.52	304.45	2,019.6	351.9	-573.2	672.4	0.42	0.30	0.67
2,236.0	27.24	304.75	2,075.8	368.1	-596.6	700.9	1.16	1.14	0.48
2,300.0	28.75	305.70	2,132.3	385.4	-621.1	730.9	2.46	2.36	1.48
2,363.0	29.04	305.63	2,187.4	403.2	-645.9	761.3	0.46	0.46	-0.11
2,426.0	28.75	304.93	2,242.6	420.7	-670.7	791.7	0.71	-0.46	-1.11
2,489.0	28.19	304.38	2,298.0	437.8	-695.4	821.7	0.98	-0.89	-0.87
2,552.0	28.29	305.73	2,353.5	454.9	-719.8	851.5	1.03	0.16	2.14
2,615.0	29.51	305.31	2,408.6	472.6	-744.6	881.9	1.96	1.94	-0.67
2,678.0	29.16	304.20	2,463.5	490.2	-770.0	912.8	1.03	-0.56	-1.76
2,741.0	26.52	303.31	2,519.2	506.6	-794.4	942.2	4.24	-4.19	-1.41
2,804.0	24.72	303.34	2,576.0	521.5	-817.2	969.4	2.86	-2.86	0.05
2,868.0	22.18	304.18	2,634.8	535.7	-838.4	994.9	4.00	-3.97	1.31
2,931.0	20.61	304.38	2,693.4	548.6	-857.3	1,017.9	2.49	-2.49	0.32
2,994.0	19.59	303.21	2,752.6	560.7	-875.3	1,039.5	1.74	-1.62	-1.86
3,057.0	17.26	303.00	2,812.3	571.6	-892.0	1,059.4	3.70	-3.70	-0.33
3,120.0	14.30	304.98	2,873.0	581.1	-906.2	1,076.5	4.77	-4.70	3.14
3,183.0	12.17	310.27	2,934.3	589.9	-917.7	1,090.9	3.89	-3.38	8.40
3,247.0	10.60	310.74	2,997.0	598.1	-927.3	1,103.4	2.46	-2.45	0.73
3,309.0	8.72	302.49	3,058.1	604.3	-935.6	1,113.8	3.76	-3.03	-13.31
3,372.0	7.39	296.03	3,120.5	608.7	-943.2	1,122.6	2.55	-2.11	-10.25
3,435.0	5.90	300.90	3,183.1	612.1	-949.7	1,129.8	2.53	-2.37	7.73
3,498.0	5.55	298.36	3,245.8	615.2	-955.1	1,136.1	0.69	-0.56	-4.03
3,562.0	5.25	296.16	3,309.5	618.0	-960.5	1,142.1	0.57	-0.47	-3.44
3,625.0	5.17	294.73	3,372.2	620.4	-965.6	1,147.8	0.24	-0.13	-2.27
3,688.0	5.10	292.49	3,435.0	622.7	-970.8	1,153.3	0.34	-0.11	-3.56
3,752.0	4.56	292.74	3,498.8	624.8	-975.8	1,158.6	0.84	-0.84	0.39
3,815.0	2.65	303.60	3,561.6	626.5	-979.3	1,162.6	3.21	-3.03	17.24
3,878.0	0.97	352.04	3,624.6	627.9	-980.6	1,164.4	3.39	-2.67	76.89
3,942.0	0.71	71.29	3,688.6	628.5	-980.3	1,164.5	1.70	-0.41	123.83
4,005.0	0.66	60.85	3,751.6	628.8	-979.6	1,164.1	0.21	-0.08	-16.57
4,061.0	0.55	72.66	3,807.6	629.1	-979.1	1,163.7	0.30	-0.20	21.09