

ConocoPhillips

ConocoPhillips
Field: San Juan County, NM
Site: San Juan 32-8 No. 267
Well: Well 32-8 #267
Wellpath: Original Hole
Plan: Plan #1
Plan vs Actual



Azimuths to Grid North
 True North: -0.12°
 Magnetic North: 10.37°
 Magnetic Field
 Strength: 51463nT
 Dip Angle: 63.82°
 Date: 5/2/2006
 Model: igrf2005

SITE DETAILS

San Juan 32-8 No. 267
 Sec. 14, T32N, R8W
 San Juan County, NM

Site Centre Latitude: 36°58'44.148N
 Longitude: 107°38'20.364W

Ground Level: 7115.00
 Positional Uncertainty: 0.00
 Convergence: 0.12

FIELD DETAILS

San Juan County, NM
 New Mexico
 USA

Geodetic System: US State Plane Coordinate System 1927
 Ellipsoid: NAD27 (Clarke 1866)
 Zone: New Mexico, Western Zone
 Magnetic Model: igrf2005

System Datum: Mean Sea Level
 Local North: Grid North

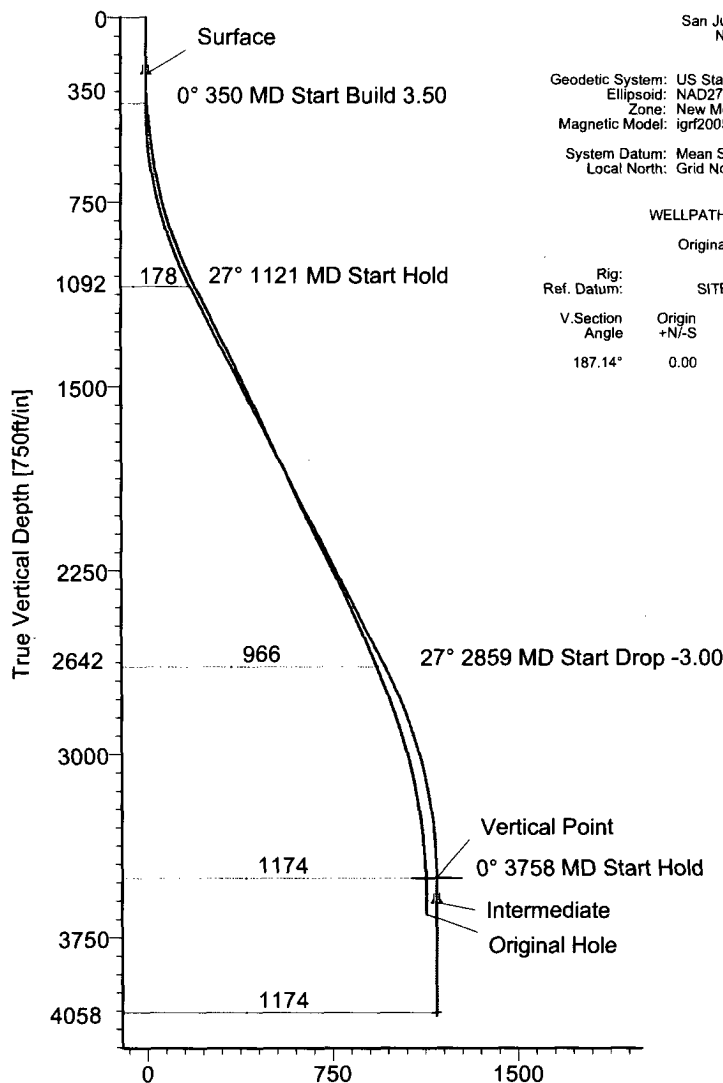
WELLPATH DETAILS

Original Hole

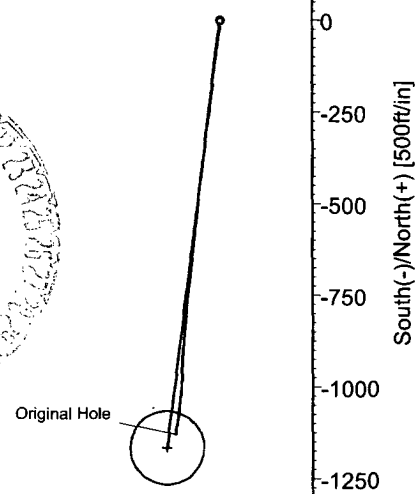
Rig:	SITE	0.00ft
Ref. Datum:		
V. Section Angle	Origin +N/-S	Origin +E/-W
187.14°	0.00	0.00
		Starting From TVD
		0.00

West(-)/East(+) [500ft/in]

-500 -250 0 250



Vertical Section at 187.14° [750ft/in]



CASING DETAILS

No.	TVD	MD	Name	Size
1	230.00	230.00	Surface	9.625
2	3608.00	3858.01	Intermediate	7.000

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Vertical Point	3508.00	-1165.00	-146.00	2174491.84	556620.90	Circle (Radius: 100)
PBHL	4058.00	-1165.00	-146.00	2174491.84	556620.90	Point

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	187.14	0.00	0.00	0.00	0.00	0.00	0.00	
2	350.00	0.00	187.14	350.00	0.00	0.00	0.00	0.00	0.00	
3	1120.51	26.97	187.14	1092.38	-176.63	-22.14	3.50	187.14	178.01	
4	2859.08	26.97	187.14	2641.89	-958.93	-120.18	0.00	0.00	966.44	
5	3758.01	0.00	187.14	3508.00	-1165.00	-146.00	3.00	180.00	1174.11	Vertical Point
6	4308.01	0.00	187.14	4058.00	-1165.00	-146.00	0.00	187.14	1174.11	PBHL

Ryan Energy Technology
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 Houston, TX 77073
 Ph: 281-443-1414
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Ryan The leader in
 UNDERGROUND INTELLIGENCE™

Plan: Plan #1 (Well 32-8 #267/Original Hole)
 Created By: Alexis Gonzalez Date: 8/28/2006
 Checked: _____ Date: _____
 Reviewed: _____ Date: _____
 Approved: _____ Date: _____

Surface 925 / S 1054 / E Sec 14
 INT ID 203 / N 1177 / E Sec 14
 Need Dev to TD
 Hold c 104 NSL

8

Ryan Energy Technologies

Survey Report



Company: ConocoPhillips Field: San Juan County, NM Site: San Juan 32-8 No. 267 Well: Well 32-8 #267 Wellpath: Original Hole	Date: 8/28/2006 Co-ordinate(NE) Reference: Site: San Juan 32-8 No. 267, Grid North Vertical (TVD) Reference: SITE 0.0 Section (VS) Reference: Well (0.00N,0.00E,187.14Azi) Survey Calculation Method: Minimum Curvature Db: Sybase
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Field: San Juan County, NM New Mexico USA Map System: US State Plane Coordinate System 1927 Geo Datum: NAD27 (Clarke 1866) Sys Datum: Mean Sea Level	Map Zone: New Mexico, Western Zone Coordinate System: Site Centre Geomagnetic Model: igrf2005
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Site: San Juan 32-8 No. 267 Sec. 14, T32N, R8W San Juan County, NM	<table border="0"> <tr> <td>Site Position:</td> <td>Northing: 2175656.84 ft</td> <td>Latitude: 36 58 44.148 N</td> </tr> <tr> <td>From: Geographic</td> <td>Easting: 556766.90 ft</td> <td>Longitude: 107 38 20.364 W</td> </tr> <tr> <td>Position Uncertainty: 0.00 ft</td> <td></td> <td>North Reference: Grid</td> </tr> <tr> <td>Ground Level: 7115.00 ft</td> <td></td> <td>Grid Convergence: 0.12 deg</td> </tr> </table>	Site Position:	Northing: 2175656.84 ft	Latitude: 36 58 44.148 N	From: Geographic	Easting: 556766.90 ft	Longitude: 107 38 20.364 W	Position Uncertainty: 0.00 ft		North Reference: Grid	Ground Level: 7115.00 ft		Grid Convergence: 0.12 deg
Site Position:	Northing: 2175656.84 ft	Latitude: 36 58 44.148 N											
From: Geographic	Easting: 556766.90 ft	Longitude: 107 38 20.364 W											
Position Uncertainty: 0.00 ft		North Reference: Grid											
Ground Level: 7115.00 ft		Grid Convergence: 0.12 deg											

Well: Well 32-8 #267	Slot Name:						
<table border="0"> <tr> <td>Well Position: +N/-S 0.00 ft</td> <td>Northing: 2175656.84 ft</td> <td>Latitude: 36 58 44.148 N</td> </tr> <tr> <td>+E/-W 0.00 ft</td> <td>Easting: 556766.90 ft</td> <td>Longitude: 107 38 20.364 W</td> </tr> </table>	Well Position: +N/-S 0.00 ft	Northing: 2175656.84 ft	Latitude: 36 58 44.148 N	+E/-W 0.00 ft	Easting: 556766.90 ft	Longitude: 107 38 20.364 W	
Well Position: +N/-S 0.00 ft	Northing: 2175656.84 ft	Latitude: 36 58 44.148 N					
+E/-W 0.00 ft	Easting: 556766.90 ft	Longitude: 107 38 20.364 W					
Position Uncertainty: 0.00 ft							

Wellpath: Original Hole	Drilled From: Surface
Current Datum: SITE	Tie-on Depth: 0.00 ft
Magnetic Data: 5/2/2006	Above System Datum: Mean Sea Level
Field Strength: 51463 nT	Declination: 10.49 deg
Vertical Section: Depth From (TVD)	Mag Dip Angle: 63.82 deg
ft	+N/-S ft
0.00	0.00
	0.00
	187.14

Survey Program for Definitive Wellpath			
Date: 5/13/2006	Validated: No	Version: 0	
Actual From ft	To ft	Survey	Toolcode Tool Name
262.00	3830.00	Survey #1 (262.00-3830.00)	MWD Standard MWD
3880.00	3880.00	Projection (3880.00-3880.00)	Projection

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	TIE LINE
262.00	1.20	250.10	261.98	-0.93	-2.58	1.25	0.46	0.46	0.00	MWD
354.00	3.70	187.60	353.90	-4.21	-3.88	4.65	3.61	2.72	-67.93	MWD
446.00	6.80	181.60	445.50	-12.59	-4.42	13.05	3.42	3.37	-6.52	MWD
538.00	8.60	186.50	536.67	-24.87	-5.35	25.35	2.08	1.96	5.33	MWD
630.00	10.10	190.70	627.45	-39.64	-7.63	40.28	1.79	1.63	4.57	MWD
722.00	13.00	186.50	717.58	-57.85	-10.30	58.68	3.28	3.15	-4.57	MWD
818.00	17.10	185.80	810.26	-82.63	-12.95	83.60	4.27	4.27	-0.73	MWD
910.00	20.40	185.80	897.37	-112.05	-15.94	113.16	3.59	3.59	0.00	MWD
1004.00	23.10	187.20	984.67	-146.65	-19.91	147.98	2.92	2.87	1.49	MWD
1099.00	25.70	187.20	1071.18	-185.58	-24.82	187.22	2.74	2.74	0.00	MWD
1194.00	26.90	186.90	1156.34	-227.35	-29.99	229.32	1.27	1.26	-0.32	MWD
1289.00	26.40	186.50	1241.25	-269.67	-34.96	271.92	0.56	-0.53	-0.42	MWD
1383.00	26.30	186.00	1325.48	-311.14	-39.50	313.64	0.26	-0.11	-0.53	MWD
1478.00	26.20	186.50	1410.69	-352.91	-44.08	355.65	0.26	-0.11	0.53	MWD
1573.00	25.40	187.20	1496.22	-393.96	-49.00	397.00	0.90	-0.84	0.74	MWD
1668.00	25.10	187.20	1582.14	-434.17	-54.08	437.52	0.32	-0.32	0.00	MWD
1761.00	24.60	186.10	1666.53	-472.99	-58.61	476.60	0.73	-0.54	-1.18	MWD
1856.00	25.70	186.10	1752.52	-513.13	-62.90	516.97	1.16	1.16	0.00	MWD
1951.00	25.10	185.10	1838.34	-553.68	-66.88	557.70	0.78	-0.63	-1.05	MWD
2044.00	25.20	186.90	1922.52	-592.99	-71.02	597.21	0.83	0.11	1.94	MWD
2139.00	24.60	185.80	2008.69	-632.74	-75.44	637.21	0.80	-0.63	-1.16	MWD

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Survey Report



Company: ConocoPhillips	Date: 8/28/2006	Time: 12:31:17	Page: 2
Field: San Juan County, NM	Co-ordinate(NE) Reference:	Site: San Juan 32-8 No. 267, Grid North	
Site: San Juan 32-8 No. 267	Vertical (TVD) Reference:	SITE 0.0	
Well: Well 32-8 #267	Section (VS) Reference:	Well (0.00N,0.00E,187.14Azi)	
Wellpath: Original Hole	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
2233.00	26.00	185.80	2093.67	-672.70	-79.50	677.37	1.49	1.49	0.00	MWD
2324.00	27.20	187.20	2175.04	-713.18	-84.13	718.11	1.49	1.32	1.54	MWD
2419.00	26.10	186.90	2259.95	-755.47	-89.36	760.72	1.17	-1.16	-0.32	MWD
2513.00	25.10	184.80	2344.72	-795.87	-93.51	801.32	1.44	-1.06	-2.23	MWD
2608.00	24.60	185.10	2430.92	-835.64	-96.95	841.21	0.54	-0.53	0.32	MWD
2702.00	23.60	184.00	2516.73	-873.90	-100.01	879.55	1.17	-1.06	-1.17	MWD
2796.00	22.50	183.30	2603.22	-910.63	-102.35	916.29	1.21	-1.17	-0.74	MWD
2891.00	21.50	182.60	2691.31	-946.17	-104.19	951.78	1.09	-1.05	-0.74	MWD
2984.00	20.80	182.60	2778.04	-979.69	-105.71	985.23	0.75	-0.75	0.00	MWD
3079.00	18.70	185.10	2867.45	-1011.71	-107.83	1017.27	2.38	-2.21	2.63	MWD
3170.00	16.10	186.10	2954.28	-1038.79	-110.47	1044.47	2.88	-2.86	1.10	MWD
3264.00	13.50	186.50	3045.15	-1062.66	-113.10	1068.47	2.77	-2.77	0.43	MWD
3357.00	11.20	186.10	3135.99	-1082.43	-115.29	1088.36	2.47	-2.47	-0.43	MWD
3450.00	8.80	187.90	3227.57	-1098.46	-117.22	1104.51	2.60	-2.58	1.94	MWD
3542.00	6.50	191.10	3318.75	-1110.54	-119.19	1116.74	2.54	-2.50	3.48	MWD
3636.00	4.60	191.40	3412.30	-1119.45	-120.96	1125.81	2.02	-2.02	0.32	MWD
3728.00	1.90	194.90	3504.15	-1124.55	-122.08	1131.00	2.94	-2.93	3.80	MWD
3830.00	1.10	200.90	3606.11	-1127.09	-122.87	1133.62	0.80	-0.78	5.88	MWD
3880.00	1.10	200.90	3656.10	-1127.99	-123.21	1134.56	0.00	0.00	0.00	Projection

Ryan Energy Technologies

COMPLETION REPORT



Company: ConocoPhillips		Date: 8/28/2006	Time: 12:33:01	Page: 1
Field: San Juan County, NM		Co-ordinate(NE) Reference:	Site: San Juan 32-8 No. 267, Grid North	
Site: San Juan 32-8 No. 267		Vertical (TVD) Reference:	SITE 0.0	
Well: Well 32-8 #267		Section (VS) Reference:	Well (0.00N,0.00E,187.14Azi)	
Wellpath: Original Hole		Survey Calculation Method:	Minimum Curvature Db: Sybase	

Field: San Juan County, NM New Mexico USA		Map Zone: New Mexico, Western Zone
Map System: US State Plane Coordinate System 1927		Coordinate System: Site Centre
Geo Datum: NAD27 (Clarke 1866)		Geomagnetic Model: igrf2005
Sys Datum: Mean Sea Level		

Site: San Juan 32-8 No. 267 Sec. 14, T32N, R8W San Juan County, NM	
Site Position:	Northing: 2175656.84 ft Latitude: 36 58 44.148 N
From: Geographic	Easting: 556766.90 ft Longitude: 107 38 20.364 W
Position Uncertainty: 0.00 ft	North Reference: Grid
Ground Level: 7115.00 ft	Grid Convergence: 0.12 deg

Well: Well 32-8 #267		Slot Name:	
Well Position:	+N/-S 0.00 ft Northing: 2175656.84 ft Latitude: 36 58 44.148 N	+E/-W 0.00 ft Easting: 556766.90 ft Longitude: 107 38 20.364 W	
Position Uncertainty: 0.00 ft			

Wellpath: Original Hole		Drilled From: Surface	
Current Datum: SITE		Tie-on Depth: 0.00 ft	
Magnetic Data: 5/2/2006		Above System Datum: Mean Sea Level	
Field Strength: 51463 nT		Declination: 10.49 deg	
Vertical Section: Depth From (TVD)		Mag Dip Angle: 63.82 deg	
ft	+N/-S ft	+E/-W ft	Direction deg
0.00	0.00	0.00	187.14

Survey Program for Definitive Wellpath			
Date: 5/13/2006	Validated: No	Version: 0	
Actual From ft	To ft	Survey	Tool Name
262.00	3830.00	Survey #1 (262.00-3830.00)	MWD
3880.00	3880.00	Projection (3880.00-3880.00)	Standard MWD Projection

Survey										
MD	Incl	TVD	VS	Azim	N/S	E/W	Clsr Dist.	Clsr Azi.	Dog Leg	Tool
ft	deg	ft	ft	deg	ft	ft	ft	deg	deg/100ft	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	TIE LINE
262.00	1.20	261.98	1.25	250.10	-0.93	-2.58	2.74	250.10	0.46	MWD
354.00	3.70	353.90	4.65	187.60	-4.21	-3.88	5.72	222.69	3.61	MWD
446.00	6.80	445.50	13.05	181.60	-12.59	-4.42	13.35	199.35	3.42	MWD
538.00	8.60	536.67	25.35	186.50	-24.87	-5.35	25.44	192.15	2.08	MWD
630.00	10.10	627.45	40.28	190.70	-39.64	-7.63	40.36	190.90	1.79	MWD
722.00	13.00	717.58	58.68	186.50	-57.85	-10.30	58.76	190.10	3.28	MWD
818.00	17.10	810.26	83.60	185.80	-82.63	-12.95	83.64	188.91	4.27	MWD
910.00	20.40	897.37	113.16	185.80	-112.05	-15.94	113.17	188.10	3.59	MWD
1004.00	23.10	984.67	147.98	187.20	-146.65	-19.91	147.99	187.73	2.92	MWD
1099.00	25.70	1071.18	187.22	187.20	-185.58	-24.82	187.23	187.62	2.74	MWD
1194.00	26.90	1156.34	229.32	186.90	-227.35	-29.99	229.32	187.51	1.27	MWD
1289.00	26.40	1241.25	271.92	186.50	-269.67	-34.96	271.93	187.39	0.56	MWD
1383.00	26.30	1325.48	313.64	186.00	-311.14	-39.50	313.64	187.24	0.26	MWD
1478.00	26.20	1410.69	355.65	186.50	-352.91	-44.08	355.65	187.12	0.26	MWD
1573.00	25.40	1496.22	397.00	187.20	-393.96	-49.00	397.00	187.09	0.90	MWD
1668.00	25.10	1582.14	437.52	187.20	-434.17	-54.08	437.52	187.10	0.32	MWD
1761.00	24.60	1666.53	476.60	186.10	-472.99	-58.61	476.60	187.06	0.73	MWD
1856.00	25.70	1752.52	516.97	186.10	-513.13	-62.90	516.97	186.99	1.16	MWD
1951.00	25.10	1838.34	557.70	185.10	-553.68	-66.88	557.71	186.89	0.78	MWD
2044.00	25.20	1922.52	597.21	186.90	-592.99	-71.02	597.22	186.83	0.83	MWD
2139.00	24.60	2008.69	637.21	185.80	-632.74	-75.44	637.22	186.80	0.80	MWD

Ryan Energy Technologies

COMPLETION REPORT



Company: ConocoPhillips Field: San Juan County, NM Site: San Juan 32-8 No. 267 Well: Well 32-8 #267 Wellpath: Original Hole	Date: 8/28/2006 Co-ordinate(NE) Reference: Vertical (TVD) Reference: Section (VS) Reference: Survey Calculation Method:	Time: 12:33:01 Site: San Juan 32-8 No. 267 Grid North SITE 0.0 Well (0.00N,0.00E,187.14Azi) Minimum Curvature	Page: 2 Db: Sybase
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Survey

MD ft	Incl deg	TVD ft	VS ft	Azim deg	N/S ft	E/W ft	Clsr Dist. ft	Clsr Azi. deg	Dog Leg deg/100ft	Tool
2233.00	26.00	2093.67	677.37	185.80	-672.70	-79.50	677.38	186.74	1.49	MWD
2324.00	27.20	2175.04	718.11	187.20	-713.18	-84.13	718.13	186.73	1.49	MWD
2419.00	26.10	2259.95	760.72	186.90	-755.47	-89.36	760.74	186.75	1.17	MWD
2513.00	25.10	2344.72	801.32	184.80	-795.87	-93.51	801.34	186.70	1.44	MWD
2608.00	24.60	2430.92	841.21	185.10	-835.64	-96.95	841.25	186.62	0.54	MWD
2702.00	23.60	2516.73	879.55	184.00	-873.90	-100.01	879.60	186.53	1.17	MWD
2796.00	22.50	2603.22	916.29	183.30	-910.63	-102.35	916.36	186.41	1.21	MWD
2891.00	21.50	2691.31	951.78	182.60	-946.17	-104.19	951.89	186.28	1.09	MWD
2984.00	20.80	2778.04	985.23	182.60	-979.69	-105.71	985.37	186.16	0.75	MWD
3079.00	18.70	2867.45	1017.27	185.10	-1011.71	-107.83	1017.44	186.08	2.38	MWD
3170.00	16.10	2954.28	1044.47	186.10	-1038.79	-110.47	1044.65	186.07	2.88	MWD
3264.00	13.50	3045.15	1068.47	186.50	-1062.66	-113.10	1068.66	186.08	2.77	MWD
3357.00	11.20	3135.99	1088.36	186.10	-1082.43	-115.29	1088.55	186.08	2.47	MWD
3450.00	8.80	3227.57	1104.51	187.90	-1098.46	-117.22	1104.69	186.09	2.60	MWD
3542.00	6.50	3318.75	1116.74	191.10	-1110.54	-119.19	1116.92	186.13	2.54	MWD
3636.00	4.60	3412.30	1125.81	191.40	-1119.45	-120.96	1125.97	186.17	2.02	MWD
3728.00	1.90	3504.15	1131.00	194.90	-1124.55	-122.08	1131.15	186.20	2.94	MWD
3830.00	1.10	3606.11	1133.62	200.90	-1127.09	-122.87	1133.77	186.22	0.80	MWD
3880.00	1.10	3656.10	1134.56	200.90	-1127.99	-123.21	1134.70	186.23	0.00	Projection