

30-015-38333

DEVON ENERGY

Parkway
Eddy County, NM
Turquoise PWU 27 #1H
VH - Job #32K0411391

Survey: Actual

SDI Standard Survey Report

12 May, 2011



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

[Signature]

Notarized this date 13th of June, 2011.

Carrie Reed

Notary Signature
County of Midland
State of Texas



Scientific Drilling International, Inc.

SDI Standard Survey Report



Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well Turquoise PWU 27 #1H
Project:	Parkway	TVD Reference:	WELL @ 0 0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Turquoise PWU 27 #1H	North Reference:	Grid
Wellbore:	VH - Job #32K0411391	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0411391	Database:	EDM-Regulatory

Project	Parkway		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site		Eddy County, NM			
Site Position:		Northing:	595,189 34 usft	Latitude:	32° 38' 9 600 N
From:	Lat/Long	Easting:	581,371 41 usft	Longitude:	104° 4' 8 400 W
Position Uncertainty:	0 0 usft	Slot Radius:	13-3/16"	Grid Convergence:	0 14 °

Well	Turquoise PWU 27 #1H, Directional (Weatherford)					
Well Position	+N/-S	0 0 usft	Northing:	595,189 34 usft	Latitude:	32° 38' 9 600 N
	+E/-W	0 0 usft	Easting:	581,371 41 usft	Longitude:	104° 4' 8 400 W
Position Uncertainty		0 0 usft	Wellhead Elevation:	usft	Ground Level:	0 0 usft

Wellbore	VH - Job #32K0411391				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/1/2011	7 86	60 49	48,847

Design		VH - Job #32K0411391		
Audit Notes:				
Version:	1 0	Phase:	ACTUAL	Tie On Depth: 0 0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0 0	0 0	0 0	84 01

Survey Program		Date	5/12/2011		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100 0	7,306 0	Actual (VH - Job #32K0411391)	Keeper	Keeper Gyro	

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
0 0	0 00	0 00	0 0	0 0	0 0	0 00	0 0
100 0	0 46	132 90	100 0	-0 3	0 3	132 90	0 4
200 0	0 49	112 50	200 0	-0 7	1 0	125 84	1 2
300 0	0 80	94 26	300 0	-0 9	2 1	114 05	2 3
400 0	0 82	86 33	400 0	-0 9	3 5	104 97	3 6
500 0	0 95	90 92	500 0	-0 9	5 0	100 14	5 1
600 0	0 91	79 88	600 0	-0 8	6 6	96 64	6 7
700 0	1 03	88 05	699 9	-0 6	8 3	94 15	8 3
800 0	1 19	83 68	799 9	-0 5	10 2	92 56	10 3
900 0	1 27	84 35	899 9	-0 2	12 4	91 09	12 4
1,000 0	1 56	79 65	999 9	0 1	14 8	89 54	14 8
1,100 0	2 32	85 01	1,099 8	0 5	18 2	88 30	18 2

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Wellbore:	VH - Job #32K0411391	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0411391	Database:	EDM-Regulatory

Survey								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)	
1,200.0	2.57	86.65	1,199.7	0.8	22.4	87.84	22.5	
1,300.0	2.01	80.22	1,299.6	1.3	26.4	87.23	26.4	
1,400.0	1.72	81.18	1,399.6	1.8	29.6	86.51	29.7	
1,500.0	1.39	78.10	1,499.5	2.3	32.3	85.95	32.4	
1,600.0	1.05	73.01	1,599.5	2.8	34.3	85.34	34.5	
1,700.0	0.87	70.99	1,699.5	3.3	35.9	84.73	36.1	
1,800.0	0.91	72.07	1,799.5	3.8	37.4	84.19	37.6	
1,900.0	0.41	60.02	1,899.5	4.2	38.5	83.72	38.7	
2,000.0	0.46	48.50	1,999.5	4.7	39.1	83.18	39.4	
2,100.0	0.33	43.97	2,099.5	5.1	39.6	82.59	39.9	
2,200.0	0.28	44.19	2,199.5	5.5	40.0	82.12	40.3	
2,300.0	0.36	34.11	2,299.5	6.0	40.3	81.58	40.7	
2,400.0	0.26	25.71	2,399.5	6.4	40.6	80.99	41.1	
2,500.0	0.33	27.16	2,499.5	6.9	40.8	80.41	41.4	
2,600.0	0.37	4.88	2,599.5	7.5	41.0	79.67	41.6	
2,700.0	0.32	348.04	2,699.5	8.1	40.9	78.85	41.7	
2,800.0	0.33	321.44	2,799.5	8.6	40.7	78.12	41.6	
2,900.0	0.50	308.05	2,899.5	9.1	40.2	77.30	41.2	
3,000.0	0.46	302.81	2,999.5	9.5	39.5	76.42	40.6	
3,100.0	0.50	281.20	3,099.5	9.8	38.7	75.74	40.0	
3,200.0	0.73	279.06	3,199.5	10.0	37.7	75.09	39.0	
3,300.0	0.58	262.97	3,299.5	10.1	36.5	74.59	37.9	
3,400.0	0.58	260.17	3,399.4	9.9	35.5	74.40	36.9	
3,500.0	0.58	260.10	3,499.4	9.7	34.5	74.24	35.9	
3,600.0	0.56	270.33	3,599.4	9.7	33.6	73.93	34.9	
3,700.0	0.62	273.12	3,699.4	9.7	32.5	73.40	33.9	
3,800.0	0.53	290.01	3,799.4	9.9	31.6	72.61	33.1	
3,900.0	0.54	285.07	3,899.4	10.2	30.7	71.66	32.3	
4,000.0	0.56	283.99	3,999.4	10.4	29.7	70.71	31.5	
4,100.0	0.54	292.22	4,099.4	10.7	28.8	69.63	30.7	
4,200.0	0.61	301.78	4,199.4	11.2	27.9	68.22	30.1	
4,300.0	0.78	348.74	4,299.4	12.1	27.4	66.12	29.9	
4,400.0	1.09	13.24	4,399.4	13.7	27.4	63.46	30.7	
4,500.0	1.02	23.21	4,499.4	15.4	28.0	61.12	32.0	
4,600.0	1.72	3.43	4,599.3	17.8	28.4	58.02	33.5	
4,700.0	2.10	359.64	4,699.3	21.1	28.5	53.52	35.5	
4,800.0	2.92	356.38	4,799.2	25.5	28.4	48.07	38.1	
4,900.0	2.98	353.11	4,899.1	30.6	27.9	42.35	41.4	
5,000.0	2.68	347.32	4,998.9	35.5	27.1	37.35	44.6	
5,100.0	2.63	344.90	5,098.8	39.9	25.9	33.00	47.6	
5,200.0	2.56	342.27	5,198.7	44.3	24.7	29.11	50.7	
5,300.0	1.93	340.44	5,298.7	48.0	23.4	26.01	53.4	
5,400.0	2.30	340.12	5,398.6	51.5	22.2	23.31	56.0	
5,500.0	2.32	341.67	5,498.5	55.3	20.9	20.67	59.1	

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Wellbore:	VH - Job #32K0411391	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0411391	Database:	EDM-Regulatory

Survey								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)	
5,600 0	2 47	342 54	5,598 4	59 3	19 6	18 28	62.4	
5,700 0	2 77	337 73	5,698 3	63 6	18 0	15 82	66 1	
5,800 0	2 87	330 22	5,798 2	68 0	15 9	13 13	69.8	
5,900 0	3 00	327 61	5,898.1	72 3	13 2	10 35	73 5	
6,000 0	3 25	327.04	5,997 9	76 9	10 3	7 60	77 6	
6,100 0	3 41	325 98	6,097 7	81 8	7 1	4 93	82 1	
6,200 0	3 76	312 95	6,197 5	86.5	3 0	1 98	86 5	
6,300 0	3 79	312 53	6,297 3	90 9	-1 8	358 84	91 0	
6,400 0	3 21	313 55	6,397 1	95 1	-6 3	356 21	95 3	
6,500 0	2 69	309.00	6,497.0	98 5	-10 2	354 11	99 0	
6,600 0	2 18	301 04	6,596 9	101 0	-13 6	352 32	101 9	
6,700 0	1 44	310 57	6,696 9	102.8	-16 2	351 04	104 0	
6,800 0	1 12	312 22	6,796 8	104 2	-17 9	350 27	105 8	
6,900 0	0 61	240 19	6,896 8	104 6	-19 1	349 68	106 4	
7,000 0	0 38	193 23	6,996 8	104 0	-19.6	349 33	105 9	
7,100 0	0 43	209 14	7,096 8	103 4	-19 9	349 13	105 3	
7,200 0	0 98	153 75	7,196 8	102.3	-19 7	349 12	104 2	
7,300 0	1 06	132 21	7,296.8	100 9	-18 6	349 56	102.6	
7,306 0	2 02	151 05	7,302.8	100 8	-18 5	349 59	102 5	



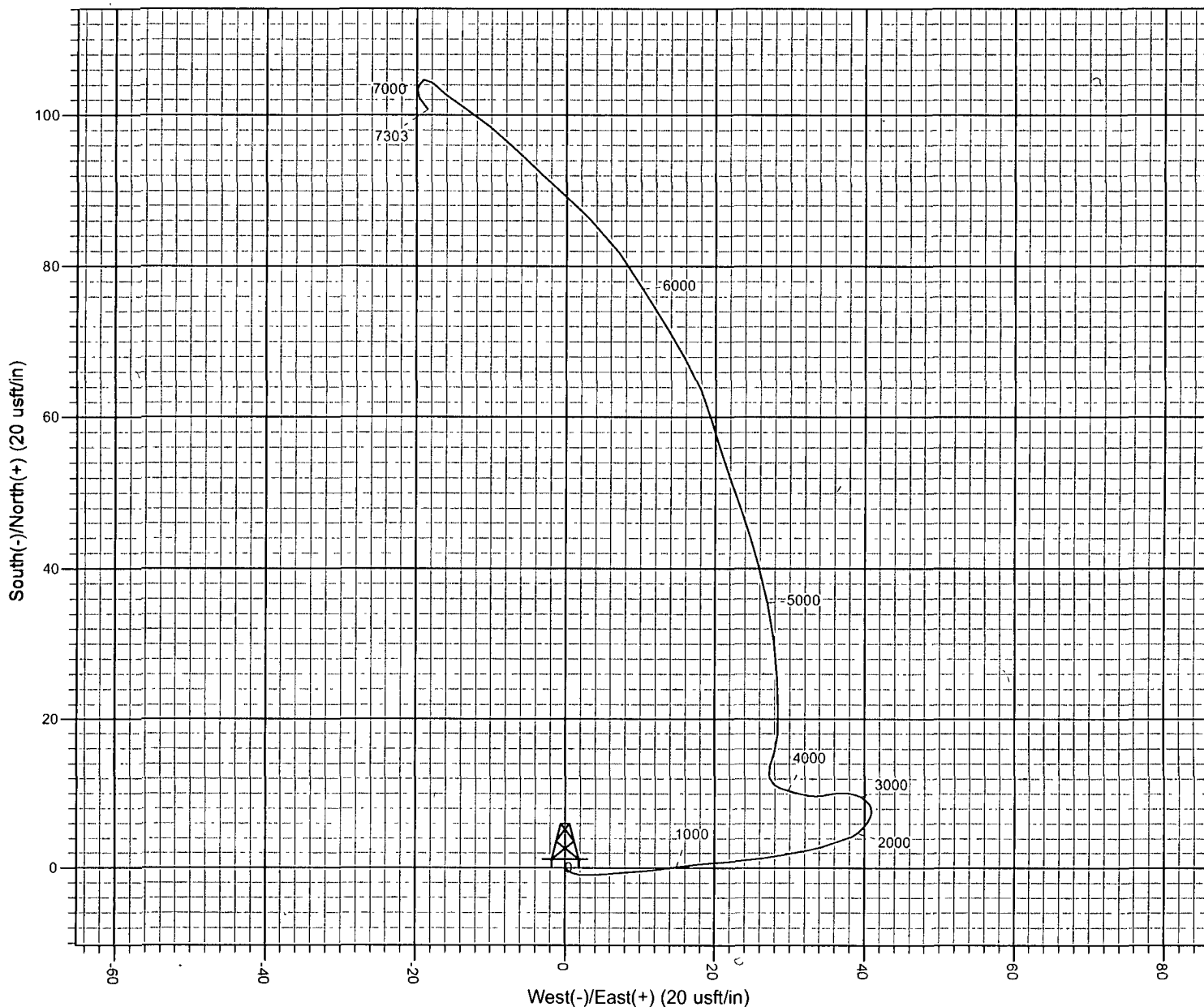
Project: Parkway
 Eddy County, NM
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 Design: VH - Job #32K0411391



Azimuths to Grid North
 True North -0 14°
 Magnetic North 7 72°
 Magnetic Field
 Strength 48847 3snT
 Dip Angle 60 49°
 Date 5/1/2011
 Model IGRF2010

WELL DETAILS: Turquoise PWU 27 #1H
 WELL @ 0.0usft (Original Well Elev)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	595189.34	581371.41	32° 38' 9.600 N	104° 4' 8.400 W	



PROJECT DETAILS: Parkway
 Geodetic System US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: New Mexico East 3001
 System Datum: Mean Sea Level

SITE DETAILS: Eddy County, NM
 Site Centre Latitude: 32° 38' 9.600 N
 Longitude: 104° 4' 8.400 W
 Positional Uncertainty: 0.0
 Convergence: 0.14
 Local North: Grid