

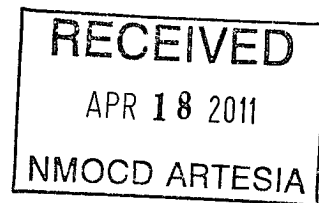
DEVON ENERGY

Pierce Crossing
Eddy County, NM
Todd "36B" State #20H
VH - Job #32K1110898

30-015-38044

Survey: Actual

SDI Standard Survey Report



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

[Signature]

Notorized this date 8/7 of December, 2010.

[Signature]

Notary Signature
County of Midland
State of Texas



Scientific Drilling International, Inc.
SDI Standard Survey Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well Todd "36B" State #20H
Project:	Pierce Crossing	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Todd "36B" State #20H	North Reference:	Grid
Wellbore:	VH - Job #32K1110898	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K1110898	Database:	EDM-Regulatory

Project	Pierce Crossing		
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:	461,844.19 usft	Latitude:	32° 16' 5.840 N
From:	Lat/Long	Easting:	686,263.73 usft	Longitude:	103° 43' 50.577 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.32 °

Well	Todd "36B" State #20H, Directional (Pathfinder)					
Well Position	+N/-S	0.0 usft	Northing:	461,844.19 usft	Latitude:	32° 16' 5.840 N
	+E/-W	0.0 usft	Easting:	686,263.73 usft	Longitude:	103° 43' 50.577 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	0.0 usft

Wellbore	VH - Job #32K1110898				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2010	11/14/2010	7.79	60.22	48,746

Design	VH - Job #32K1110898			
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	157.10

Survey Program		Date	12/8/2010		
From (usft)	To (usft)	Survey (Wellbore)		Tool Name	Description
100.0	8,387.0	Actual (VH - Job #32K1110898)		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	0.08	219.45	100.0	-0.1	0.0	219.45	0.1	
200.0	0.15	93.75	200.0	-0.1	0.0	160.20	0.1	
300.0	0.11	81.76	300.0	-0.1	0.3	112.57	0.3	
400.0	0.17	158.66	400.0	-0.2	0.4	119.50	0.5	
500.0	0.51	197.77	500.0	-0.8	0.3	157.24	0.9	
600.0	1.04	199.54	600.0	-2.1	-0.1	182.89	2.1	
700.0	1.10	201.55	700.0	-3.8	-0.8	191.25	3.9	
800.0	1.17	201.04	800.0	-5.7	-1.5	194.63	5.9	
900.0	0.94	205.40	899.9	-7.4	-2.2	196.62	7.7	
1,000.0	0.95	201.06	999.9	-8.9	-2.8	197.78	9.3	
1,100.0	0.93	198.33	1,099.9	-10.4	-3.4	198.07	11.0	

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Well:	Todd "36B" State #20H	North Reference:	Grid
Wellbore:	VH - Job #32K1110898	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K1110898	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	0.83	196.06	1,199.9	-11.9	-3.9	197.97	12.5
1,300.0	0.72	197.98	1,299.9	-13.2	-4.3	197.87	13.9
1,400.0	0.71	195.28	1,399.9	-14.4	-4.6	197.77	15.1
1,500.0	0.64	187.98	1,499.9	-15.5	-4.8	197.34	16.3
1,600.0	0.67	181.40	1,599.9	-16.7	-4.9	196.51	17.4
1,700.0	0.58	184.89	1,699.9	-17.8	-5.0	195.72	18.4
1,800.0	0.53	181.05	1,799.9	-18.7	-5.0	195.10	19.4
1,900.0	0.40	182.32	1,899.9	-19.5	-5.1	194.56	20.2
2,000.0	0.36	177.48	1,999.8	-20.2	-5.1	194.10	20.8
2,100.0	0.16	64.37	2,099.8	-20.4	-4.9	193.56	21.0
2,200.0	0.17	57.67	2,199.8	-20.3	-4.7	192.98	20.8
2,300.0	0.24	31.75	2,299.8	-20.1	-4.4	192.50	20.5
2,400.0	0.35	41.84	2,399.8	-19.6	-4.1	191.88	20.1
2,500.0	0.47	55.82	2,499.8	-19.2	-3.6	190.60	19.5
2,600.0	0.65	62.59	2,599.8	-18.7	-2.7	188.36	18.9
2,700.0	0.83	62.16	2,699.8	-18.1	-1.6	185.06	18.2
2,800.0	0.89	63.69	2,799.8	-17.4	-0.3	180.87	17.4
2,900.0	0.90	63.69	2,899.8	-16.7	1.1	176.12	16.8
3,000.0	0.84	59.66	2,999.8	-16.0	2.5	171.22	16.2
3,100.0	0.81	58.85	3,099.8	-15.3	3.7	166.35	15.7
3,200.0	0.92	59.74	3,199.8	-14.5	5.0	160.95	15.3
3,300.0	1.04	78.15	3,299.8	-13.9	6.6	154.65	15.4
3,400.0	1.01	78.07	3,399.7	-13.5	8.3	148.37	15.9
3,500.0	0.90	58.25	3,499.7	-12.9	9.9	142.68	16.3
3,600.0	0.78	53.33	3,599.7	-12.1	11.1	137.57	16.4
3,700.0	0.86	58.36	3,699.7	-11.3	12.3	132.71	16.7
3,800.0	1.63	99.39	3,799.7	-11.2	14.3	127.95	18.1
3,900.0	2.36	112.60	3,899.6	-12.2	17.6	124.68	21.4
4,000.0	2.48	116.76	3,999.5	-14.0	21.4	123.04	25.6
4,100.0	3.28	130.20	4,099.4	-16.8	25.6	123.27	30.6
4,200.0	3.93	138.73	4,199.2	-21.2	30.0	125.23	36.7
4,300.0	3.39	137.75	4,299.0	-26.0	34.3	127.15	43.0
4,400.0	2.87	136.97	4,398.9	-30.0	38.0	128.30	48.4
4,500.0	2.04	137.60	4,498.8	-33.1	40.9	129.03	52.6
4,600.0	1.76	136.36	4,598.7	-35.5	43.1	129.50	55.9
4,700.0	1.77	141.26	4,698.7	-37.9	45.1	129.98	58.9
4,800.0	1.76	140.62	4,798.6	-40.3	47.1	130.53	61.9
4,900.0	1.68	137.99	4,898.6	-42.5	49.0	130.93	64.9
5,000.0	1.53	138.31	4,998.5	-44.6	50.9	131.23	67.7
5,100.0	1.46	136.65	5,098.5	-46.5	52.7	131.46	70.3
5,200.0	1.36	144.09	5,198.5	-48.4	54.2	131.76	72.7
5,300.0	1.13	148.46	5,298.4	-50.2	55.5	132.17	74.8
5,400.0	1.10	148.71	5,398.4	-51.9	56.5	132.58	76.7
5,500.0	1.04	146.89	5,498.4	-53.5	57.5	132.94	78.5

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Site:	Eddy County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Todd "36B" State #20H	North Reference:	Grid
Wellbore:	VH - Job #32K1110898	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K1110898	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	1.05	149.69	5,598.4	-55.0	58.4	133.28	80.3
5,700.0	0.89	150.26	5,698.4	-56.5	59.3	133.62	81.9
5,800.0	0.88	147.09	5,798.4	-57.8	60.1	133.90	83.4
5,900.0	0.64	166.84	5,898.4	-59.0	60.6	134.22	84.6
6,000.0	0.67	164.24	5,998.3	-60.1	60.9	134.62	85.6
6,100.0	0.62	179.57	6,098.3	-61.2	61.1	135.06	86.5
6,200.0	0.43	203.91	6,198.3	-62.1	60.9	135.54	87.0
6,300.0	0.51	186.84	6,298.3	-62.9	60.7	136.00	87.4
6,400.0	0.44	197.99	6,398.3	-63.7	60.5	136.45	87.9
6,500.0	0.55	192.27	6,498.3	-64.5	60.3	136.92	88.3
6,600.0	0.57	187.73	6,598.3	-65.5	60.2	137.43	88.9
6,700.0	0.79	182.92	6,698.3	-66.7	60.1	137.98	89.7
6,800.0	0.92	190.12	6,798.3	-68.1	59.9	138.69	90.7
6,900.0	1.12	190.40	6,898.3	-69.9	59.6	139.56	91.8
7,000.0	1.03	125.70	6,998.3	-71.4	60.1	139.90	93.3
7,100.0	2.41	82.18	7,098.2	-71.6	62.9	138.69	95.3
7,200.0	2.66	80.06	7,198.1	-70.9	67.3	136.51	97.8
7,300.0	1.42	95.00	7,298.1	-70.6	70.8	134.93	100.0
7,400.0	1.22	101.87	7,398.0	-71.0	73.1	134.15	101.9
7,500.0	1.27	106.49	7,498.0	-71.5	75.2	133.55	103.8
7,600.0	1.00	123.11	7,598.0	-72.3	77.0	133.20	105.6
7,700.0	0.93	132.89	7,698.0	-73.3	78.3	133.11	107.3
7,800.0	1.04	132.01	7,798.0	-74.5	79.6	133.10	109.0
7,900.0	1.06	136.76	7,898.0	-75.8	80.9	133.12	110.8
8,000.0	0.95	123.62	7,997.9	-76.9	82.2	133.08	112.6
8,100.0	0.89	96.42	8,097.9	-77.4	83.7	132.78	114.0
8,200.0	0.83	56.32	8,197.9	-77.1	85.1	132.20	114.8
8,300.0	0.55	4.90	8,297.9	-76.2	85.7	131.66	114.7
8,387.0	0.38	253.32	8,384.9	-75.9	85.5	131.61	114.3



Project: Pierce Crossing
Eddy County, NM
Well: Todd "36B" State #20H
Wellbore: VH - Job #32K1110898
Design: VH - Job #32K1110898

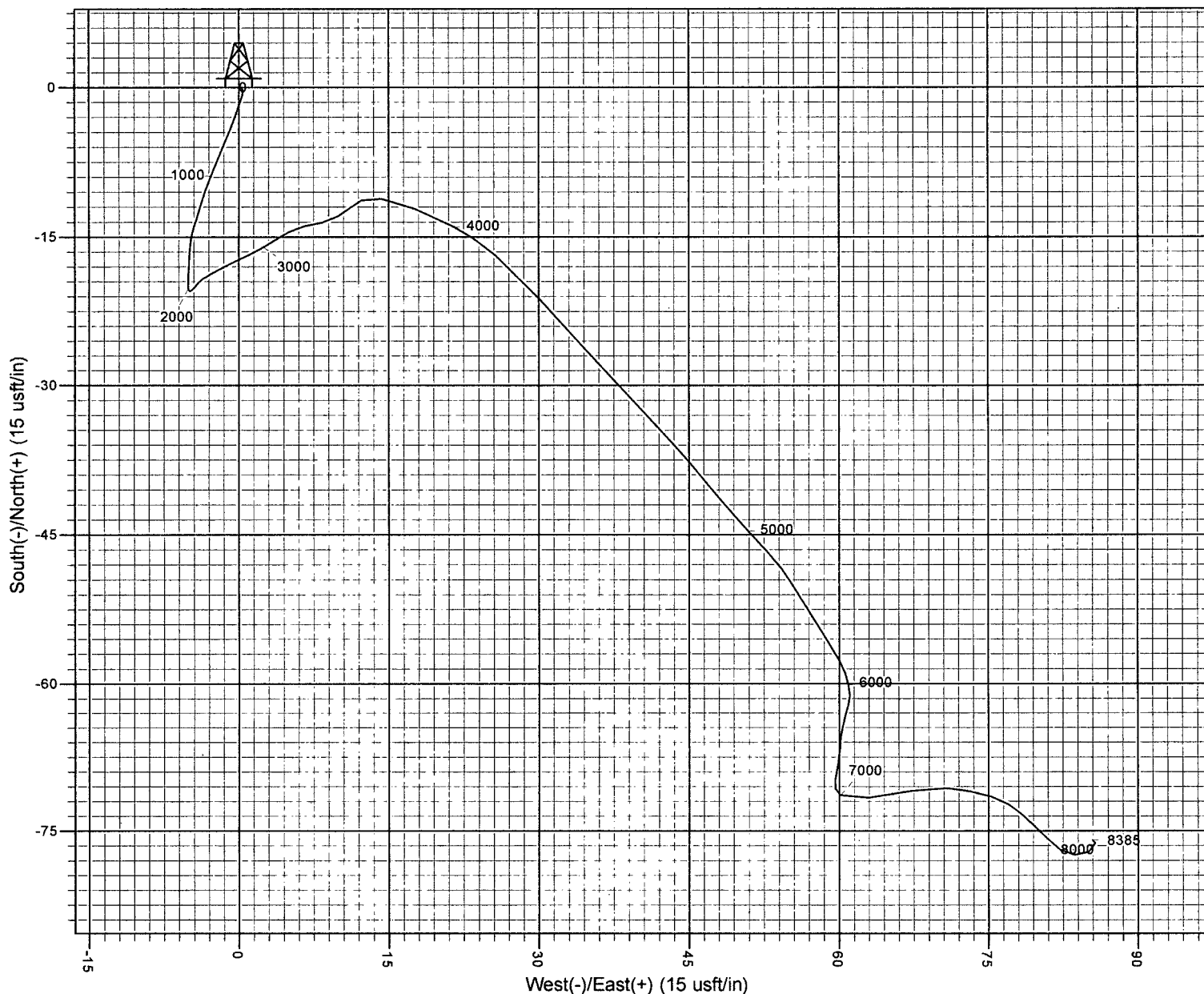


Azimuths to Grid North
True North: -0.32°
Magnetic North: 7.47°

Magnetic Field
Strength: 48746.5nT
Dip Angle: 60.22°
Date: 11/14/2010
Model: BGGM2010

WELL DETAILS: Todd "36B" State #20H
WELL @ 0.0usft (Original Well Elev)
Ground Level: 0.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	461844.19	686263.73	32° 16' 5.840 N	103° 43' 50.577 W	



PROJECT DETAILS: Pierce Crossing
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° 16' 5.840 N
Longitude: 103° 43' 50.577 W
Positional Uncertainty: 0.0
Convergence: 0.32
Local North: Grid