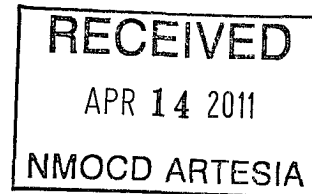


DEVON ENERGY

Willow Lake
Eddy County, NM
Cooter 16 State #7H
VH - Job #32K110820

30-015-37877

Survey: Actual



SDI Standard Survey Report

14 November, 2010

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

Richard

Notorized this date 16th of November, 2010.

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 Cooter 16 State #7H
Project:	Willow Lake	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Cooter 16 State #7H	North Reference:	Grid
Wellbore:	VH - Job #32K110820	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K110820	Database:	EDM-Regulatory

Project	Willow Lake		
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:	408,641.15 usft	Latitude:	32° 7' 22.800 N
From:	Lat/Long	Easting:	606,908.63 usft	Longitude:	103° 59' 16.800 W
Position Uncertainty:	0.0 usft	Slot Radius:	0"	Grid Convergence:	0.18 °

Well	Cooter 16 State #7H, Directional (Weatherford)					
Well Position	+N/-S	0.0 usft	Northing:	408,873.49 usft	Latitude:	32° 7' 25.054 N
	+E/-W	0.0 usft	Easting:	608,329.30 usft	Longitude:	103° 59' 0.271 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	0.0 usft

Wellbore	VH - Job #32K110820				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2010	10/24/2010	7.90	60.04	48,632

Design	VH - Job #32K110820			
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	359.11

Survey Program	Date 11/14/2010			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	6,571.0	Actual (VH - Job #32K110820)	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	1.02	67.29	100.0	0.3	0.8	67.29	0.9	
200.0	2.05	78.30	200.0	1.0	3.4	72.81	3.6	
300.0	1.82	130.51	299.9	0.4	6.4	86.57	6.4	
400.0	1.27	156.66	399.9	-1.7	8.0	101.78	8.2	
500.0	0.92	125.90	499.9	-3.2	9.1	109.15	9.6	
600.0	1.01	167.53	599.8	-4.5	9.9	114.32	10.9	
700.0	1.34	174.46	699.8	-6.5	10.2	122.47	12.1	
800.0	1.40	177.91	799.8	-8.9	10.4	130.57	13.7	
900.0	1.32	176.36	899.8	-11.3	10.5	137.00	15.4	
1,000.0	1.24	191.47	999.7	-13.5	10.4	142.44	17.0	
1,100.0	1.15	194.81	1,099.7	-15.5	9.9	147.46	18.4	

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Well:	Cooter 16 State #7H	North Reference:	Grid
Wellbore:	VH - Job #32K110820	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K110820	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	1.17	204.80	1,199.7	-17.4	9.2	152.12	19.7
1,300.0	0.80	211.18	1,299.7	-18.9	8.4	156.02	20.7
1,400.0	0.74	208.20	1,399.7	-20.1	7.8	158.90	21.5
1,500.0	0.80	228.64	1,499.7	-21.1	6.9	161.85	22.2
1,600.0	0.72	245.50	1,599.7	-21.8	5.8	165.06	22.6
1,700.0	0.74	233.65	1,699.6	-22.5	4.7	168.11	23.0
1,800.0	0.81	236.22	1,799.6	-23.3	3.6	171.14	23.5
1,900.0	0.75	251.86	1,899.6	-23.9	2.4	174.21	24.0
2,000.0	0.86	268.59	1,999.6	-24.1	1.0	177.51	24.1
2,100.0	0.79	289.43	2,099.6	-23.9	-0.4	180.85	23.9
2,200.0	0.91	308.81	2,199.6	-23.1	-1.6	184.01	23.2
2,300.0	0.35	354.59	2,299.6	-22.3	-2.3	185.80	22.5
2,400.0	1.15	99.60	2,399.6	-22.2	-1.3	183.37	22.2
2,500.0	1.39	100.19	2,499.6	-22.6	0.9	177.79	22.6
2,600.0	1.87	108.92	2,599.5	-23.3	3.6	171.20	23.6
2,700.0	2.86	111.43	2,699.4	-24.8	7.5	163.21	25.9
2,800.0	3.69	113.16	2,799.3	-27.0	12.8	154.67	29.8
2,900.0	3.48	114.44	2,899.1	-29.5	18.5	147.91	34.8
3,000.0	2.47	116.83	2,998.9	-31.7	23.2	143.84	39.3
3,100.0	1.91	124.05	3,098.9	-33.6	26.5	141.78	42.8
3,200.0	1.69	122.64	3,198.8	-35.3	29.1	140.54	45.8
3,300.0	1.67	123.85	3,298.8	-36.9	31.5	139.51	48.6
3,400.0	1.49	127.47	3,398.7	-38.5	33.8	138.76	51.3
3,500.0	1.22	134.75	3,498.7	-40.1	35.6	138.41	53.6
3,600.0	0.84	143.07	3,598.7	-41.4	36.8	138.40	55.4
3,700.0	0.74	146.31	3,698.7	-42.5	37.6	138.55	56.8
3,800.0	0.68	157.00	3,798.7	-43.6	38.2	138.83	58.0
3,900.0	0.50	164.21	3,898.7	-44.6	38.5	139.19	58.9
4,000.0	0.38	167.83	3,998.7	-45.3	38.7	139.52	59.6
4,100.0	0.29	161.98	4,098.7	-45.9	38.8	139.76	60.1
4,200.0	0.28	170.46	4,198.7	-46.4	39.0	139.97	60.6
4,300.0	0.15	162.69	4,298.7	-46.8	39.0	140.13	60.9
4,400.0	0.16	224.47	4,398.7	-47.0	39.0	140.31	61.0
4,500.0	0.34	231.97	4,498.7	-47.3	38.7	140.72	61.1
4,600.0	0.49	224.57	4,598.7	-47.7	38.1	141.40	61.1
4,700.0	0.69	221.58	4,698.7	-48.5	37.4	142.35	61.3
4,800.0	0.80	221.00	4,798.6	-49.5	36.6	143.54	61.5
4,900.0	0.92	218.91	4,898.6	-50.6	35.6	144.89	61.9
5,000.0	1.16	216.37	4,998.6	-52.1	34.5	146.48	62.5
5,100.0	1.30	213.66	5,098.6	-53.8	33.3	148.28	63.3
5,200.0	1.33	214.02	5,198.6	-55.7	32.0	150.15	64.3
5,300.0	1.37	218.13	5,298.5	-57.6	30.6	152.03	65.3
5,400.0	1.26	225.18	5,398.5	-59.4	29.1	153.89	66.1
5,500.0	1.18	220.27	5,498.5	-60.9	27.6	155.59	66.9

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Project:	Willow Lake	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Cooter 16 State #7H	North Reference:	Grid
Wellbore:	VH - Job #32K110820	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K110820	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	1.02	222.44	5,598.5	-62.4	26.4	157.07	67.7	
5,700.0	0.72	219.34	5,698.5	-63.5	25.4	158.22	68.4	
5,800.0	0.60	196.84	5,798.5	-64.5	24.8	158.95	69.1	
5,900.0	0.65	155.41	5,898.4	-65.5	24.9	159.18	70.1	
6,000.0	0.84	162.15	5,998.4	-66.7	25.4	159.18	71.4	
6,100.0	1.17	171.14	6,098.4	-68.4	25.7	159.38	73.1	
6,200.0	1.39	176.19	6,198.4	-70.6	26.0	159.80	75.3	
6,300.0	1.55	185.14	6,298.4	-73.2	25.9	160.48	77.7	
6,400.0	1.42	182.44	6,398.3	-75.8	25.8	161.22	80.0	
6,500.0	1.62	189.14	6,498.3	-78.4	25.5	161.99	82.5	
6,571.0	1.64	201.90	6,569.3	-80.3	25.0	162.74	84.1	



Project: Willow Lake
Eddy County, NM
Well: Cooter 16 State #7H
Wellbore: VH - Job #32K110820
Design: VH - Job #32K110820

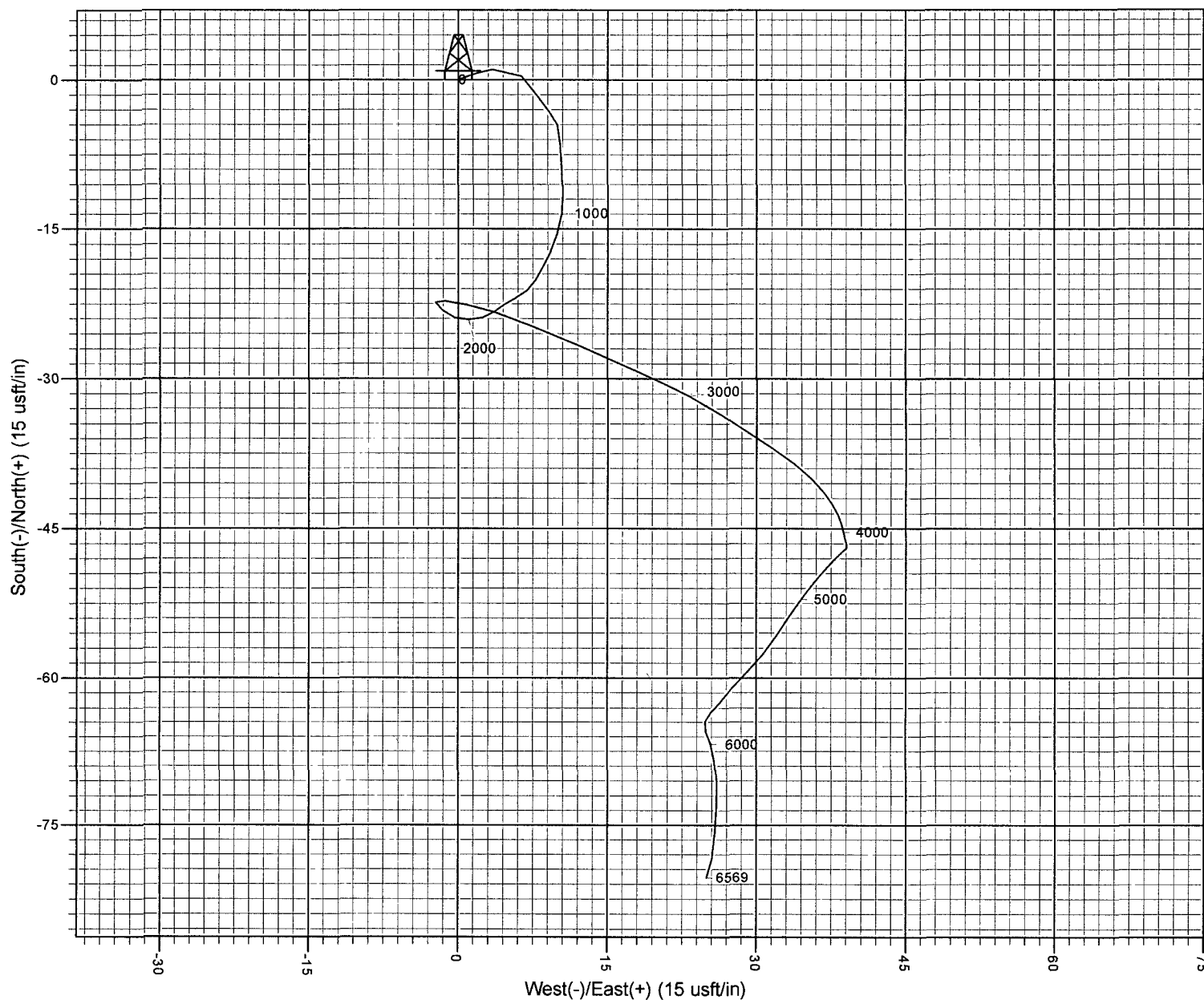


Azimuths to Grid North
True North: -0.19°
Magnetic North: 7.72°

Magnetic Field
Strength: 48631.8snT
Dip Angle: 60.04°
Date: 10/24/2010
Model: BGGM2010

WELL DETAILS: Cooter 16 State #7H
WELL @ 0.0usft (Original Well Elev)
Ground Level: 0.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	408873.49	608329.30	32° 7' 25.054 N	103° 59' 0.271 W	



PROJECT DETAILS: Willow Lake
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° 7' 22.800 N
Longitude: 103° 59' 16.800 W
Positional Uncertainty: 0.0
Convergence: 0.18
Local North: Grid