

DEVON ENERGY

White Ranch
Chaves County, NM
Goodnight "1" Fee #1H
VH - Job #32K0211144

30-005-04132

Survey: Actual

SDI Standard Survey Report

20 February, 2011

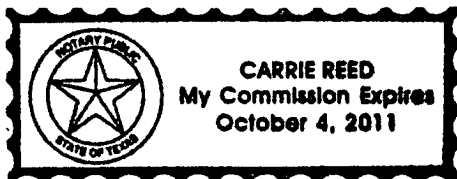
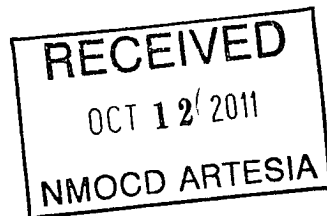
This survey is correct to the best of my knowledge and is supported by actual field data.

Liberto

Notarized this date 1st of March, 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 Goodnight "1" Fee #1H
Project:	White Ranch	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Chaves County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Goodnight "1" Fee #1H	North Reference:	Grid
Wellbore:	VH - Job #32K0211144	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0211144	Database:	EDM-Regulatory

Project	White Ranch		
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	Chaves County, NM		
Site Position:		Northing:	839,374.38 usft
From:	Lat/Long	Easting:	576,070.80 usft
Position Uncertainty:	0 0 usft	Slot Radius:	13-3/16"
		Latitude:	33° 18' 25.961 N
		Longitude:	104° 5' 3.634 W
		Grid Convergence:	0.14 °

Well	Goodnight "1" Fee #1H, Directional (Cudd)		
Well Position	+N-S	0 0 usft	Northing: 839,374.38 usft
	+E-W	0 0 usft	Easting: 576,070.80 usft
Position Uncertainty	0 0 usft	Wellhead Elevation:	usft
		Latitude:	33° 18' 25.961 N
		Longitude:	104° 5' 3.634 W
		Ground Level:	0.0 usft

Wellbore	VH - Job #32K0211144				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2010	2/16/2011	8.01	61 12	49,302

Design	VH - Job #32K0211144			
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	179 56

Survey Program	Date 2/20/2011			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	8,135 0	Actual (VH - Job #32K0211144)	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 72	69 72	100.0	0.2	0 6	69 72	0 6
200.0	0 72	71.73	200 0	0.6	1 8	70.39	1 9
300.0	0 73	76.49	300.0	1 0	3 0	71.89	3 1
400.0	0 71	75.21	400 0	1 3	4 2	73 02	4 4
500 0	0 76	72 30	500.0	1.6	5 4	73.18	5 7
600 0	0 79	65 01	600.0	2 1	6 7	72.30	7 0
700.0	0 77	64.08	699.9	2.7	7 9	71 04	8 4
800 0	0 80	66.23	799.9	3 3	9 2	70.22	9 7
900.0	0 80	69.00	899.9	3 8	10 5	69.89	11 1
1,000.0	0 82	74.57	999.9	4 3	11 8	70.11	12 6
1,100.0	0 94	87.32	1,099.9	4 5	13 3	71.33	14 1

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Well:	Goodnight "1" Fee #1H	North Reference:	Grid
Wellbore:	VH - Job #32K0211144	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0211144	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	0.96	86.58	1,199.9	4.6	15.0	72.96	15.7
1,300.0	0.97	88.28	1,299.9	4.7	16.6	74.35	17.3
1,400.0	0.93	91.25	1,399.9	4.7	18.3	75.69	18.9
1,500.0	0.84	84.89	1,499.9	4.7	19.8	76.63	20.4
1,600.0	0.76	85.28	1,599.8	4.8	21.2	77.17	21.8
1,700.0	0.46	103.12	1,699.8	4.8	22.3	77.84	22.8
1,800.0	0.33	112.69	1,799.8	4.6	22.9	78.67	23.4
1,900.0	0.44	114.40	1,899.8	4.3	23.6	79.59	24.0
2,000.0	0.36	128.06	1,999.8	4.0	24.2	80.65	24.5
2,100.0	0.30	119.87	2,099.8	3.7	24.6	81.57	24.9
2,200.0	0.40	119.72	2,199.8	3.3	25.2	82.42	25.4
2,300.0	0.41	151.91	2,299.8	2.9	25.6	83.63	25.8
2,400.0	0.31	144.57	2,399.8	2.3	26.0	84.88	26.1
2,500.0	0.53	151.25	2,499.8	1.7	26.3	86.31	26.4
2,600.0	0.64	161.32	2,599.8	0.8	26.7	88.36	26.8
2,700.0	0.73	162.65	2,699.8	-0.4	27.1	90.79	27.1
2,800.0	0.86	162.86	2,799.8	-1.7	27.5	93.53	27.6
2,900.0	0.91	166.13	2,899.8	-3.2	27.9	96.51	28.1
3,000.0	0.98	167.85	2,999.8	-4.8	28.3	99.61	28.7
3,100.0	1.11	170.97	3,099.8	-6.6	28.6	102.95	29.4
3,200.0	1.09	175.81	3,199.7	-8.5	28.9	106.40	30.1
3,300.0	1.10	170.63	3,299.7	-10.4	29.1	109.65	30.9
3,400.0	1.39	166.19	3,399.7	-12.5	29.5	112.96	32.1
3,500.0	1.58	163.52	3,499.7	-15.0	30.2	116.42	33.7
3,600.0	1.94	162.08	3,599.6	-17.9	31.1	119.97	35.9
3,700.0	2.14	162.44	3,699.6	-21.3	32.2	123.52	38.6
3,800.0	2.43	162.40	3,799.5	-25.1	33.4	126.96	41.8
3,900.0	2.51	163.03	3,899.4	-29.3	34.7	130.14	45.4
4,000.0	2.64	164.29	3,999.3	-33.6	36.0	133.03	49.2
4,100.0	2.76	167.78	4,099.2	-38.1	37.1	135.80	53.2
4,200.0	2.88	167.77	4,199.0	-42.9	38.1	138.40	57.4
4,300.0	2.81	170.37	4,298.9	-47.8	39.1	140.75	61.7
4,400.0	2.75	174.58	4,398.8	-52.6	39.7	142.96	65.9
4,500.0	2.82	177.26	4,498.7	-57.5	40.1	145.12	70.0
4,600.0	2.72	181.73	4,598.6	-62.3	40.1	147.23	74.1
4,700.0	2.42	183.95	4,698.5	-66.8	39.9	149.15	77.8
4,800.0	1.97	188.04	4,798.4	-70.6	39.5	150.77	80.9
4,900.0	1.73	189.27	4,898.3	-73.8	39.0	152.13	83.4
5,000.0	1.80	187.42	4,998.3	-76.8	38.6	153.34	86.0
5,100.0	1.85	190.76	5,098.2	-80.0	38.1	154.55	88.6
5,200.0	1.85	189.37	5,198.2	-83.1	37.5	155.72	91.2
5,300.0	1.89	191.69	5,298.1	-86.3	36.9	156.86	93.9
5,400.0	2.18	187.38	5,398.1	-89.8	36.3	157.99	96.9
5,500.0	2.20	192.15	5,498.0	-93.6	35.7	159.14	100.2

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Wellbore:	VH - Job #32K0211144	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0211144	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	2.91	191.07	5,597.9	-98.0	34.8	160.46	104.0
5,700.0	3.70	189.85	5,697.7	-103.6	33.7	161.97	109.0
5,800.0	4.74	185.81	5,797.5	-110.9	32.8	163.54	115.7
5,900.0	4.77	183.75	5,897.1	-119.2	32.1	164.94	123.4
6,000.0	4.40	182.32	5,996.8	-127.2	31.7	166.02	131.1
6,100.0	4.03	183.03	6,096.5	-134.5	31.3	166.90	138.1
6,200.0	3.70	179.26	6,196.3	-141.3	31.2	167.56	144.7
6,300.0	2.74	178.25	6,296.1	-146.9	31.3	167.98	150.2
6,400.0	2.07	174.64	6,396.1	-151.1	31.5	168.21	154.3
6,500.0	1.59	171.48	6,496.0	-154.2	31.9	168.31	157.5
6,600.0	1.38	173.72	6,596.0	-156.8	32.2	168.38	160.1
6,700.0	1.06	186.91	6,695.9	-158.9	32.3	168.53	162.2
6,800.0	0.74	212.27	6,795.9	-160.4	31.8	168.78	163.5
6,900.0	0.56	214.74	6,895.9	-161.3	31.2	169.06	164.3
7,000.0	0.55	220.37	6,995.9	-162.1	30.6	169.31	165.0
7,100.0	0.59	240.11	7,095.9	-162.7	29.8	169.61	165.4
7,200.0	0.79	275.06	7,195.9	-162.9	28.7	170.01	165.4
7,300.0	1.01	281.78	7,295.9	-162.7	27.1	170.52	164.9
7,400.0	1.51	294.40	7,395.9	-161.9	25.1	171.19	163.9
7,500.0	1.93	296.03	7,495.8	-160.7	22.4	172.07	162.2
7,600.0	2.77	284.62	7,595.7	-159.3	18.5	173.37	160.4
7,700.0	2.51	301.98	7,695.6	-157.5	14.3	174.80	158.2
7,800.0	2.75	305.13	7,795.5	-155.0	10.5	176.12	155.4
7,900.0	2.43	308.30	7,895.4	-152.3	6.9	177.41	152.5
8,000.0	2.57	319.64	7,995.3	-149.3	3.8	178.56	149.3
8,100.0	2.31	338.91	8,095.2	-145.7	1.6	179.38	145.7
8,135.0	2.71	344.10	8,130.2	-144.2	1.1	179.56	144.2



Project: Whtie Ranch
Chaves County, NM
Well: Goodnight "1" Fee #1H
Wellbore: VH - Job #32K0211144
Design: VH - Job #32K0211144

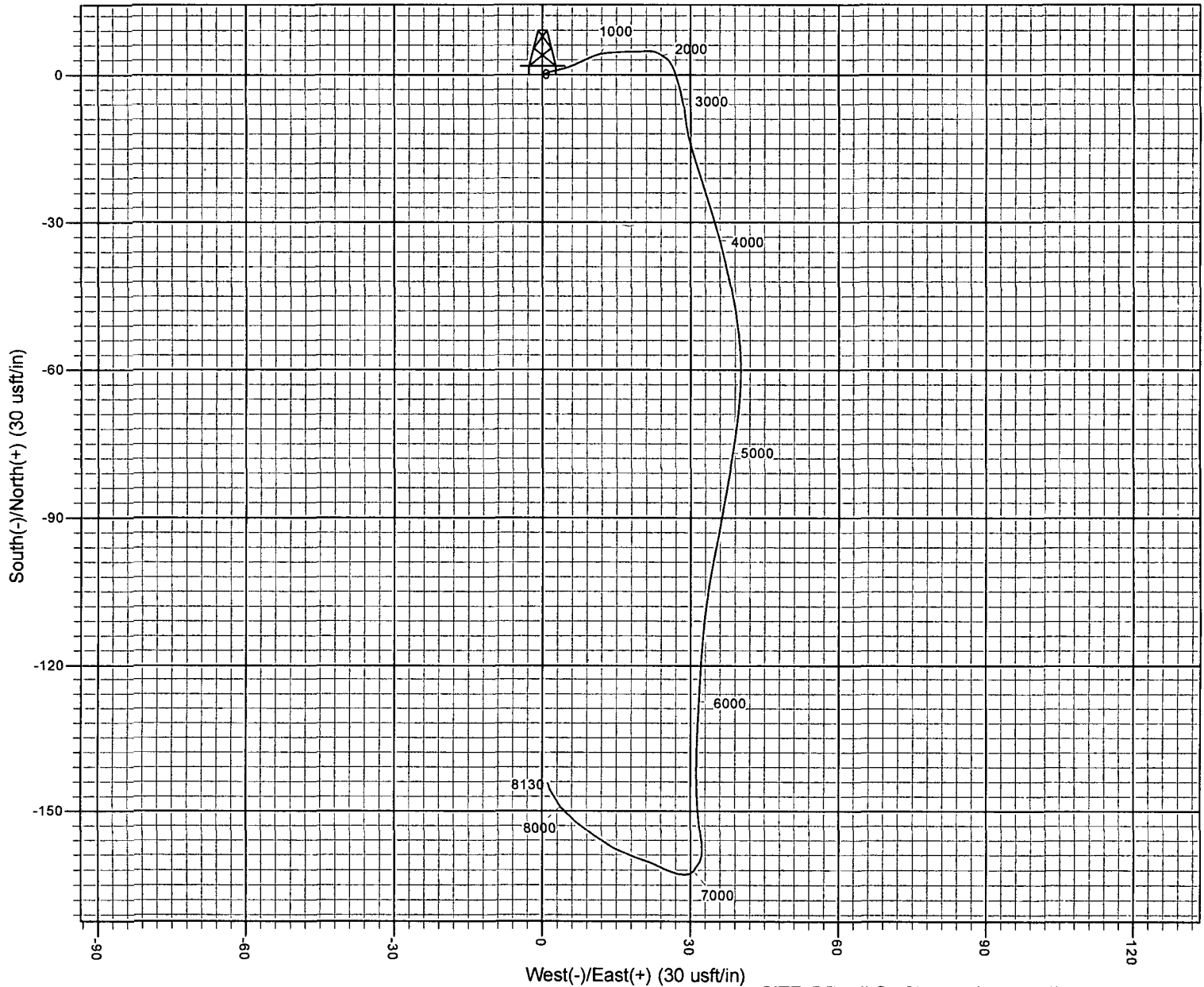


Azimuths to Grid North
True North: -0.14°
Magnetic North: 7.87°

Magnetic Field
Strength: 49301 8snT
Dip Angle: 61.12°
Date: 2/16/2011
Model: BGGM2010

WELL DETAILS: Goodnight "1" Fee #1H
WELL @ 0.0usft (Original Well Elev)
Ground Level: 0.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	839374.38	576070.80	33° 18' 25.961 N	104° 5' 3.634 W	



PROJECT DETAILS: Whtie Ranch

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: Chaves County, NM

Site Centre Latitude: 33° 18' 25.961 N
Longitude: 104° 5' 3.634 W
Positional Uncertainty: 0.0
Convergence: 0.14
Local North: Grid