

DEVON ENERGY

Wildcat (Chaves County, NM)

Chaves County, NM

Loving "7" Fee #1H

VH - Job #32K1010766

Survey: Actual

30-005-64129

SDI Standard Survey Report

30 October, 2010



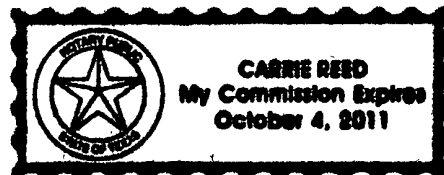
This survey is correct to the best of my knowledge and is supported by actual field data.

Rehasto

Notorized this date 2nd 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 Loving "7" Fee #1H
Project:	Wildcat (Chaves County, NM)	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Chaves County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Loving "7" Fee #1H	North Reference:	Grid
Wellbore:	VH - Job #32K1010766	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K1010766	Database:	EDM-Regulatory

Project	Wildcat (Chaves County, NM)		
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:	895,355.27 usft	Latitude:	33° 27' 39.348 N
From:	Lat/Long	Easting:	595,224.55 usft	Longitude:	104° 1' 15.964 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"	Grid Convergence:	0 17 °

Well	Loving "7" Fee #1H, Directional (CUDD)					
Well Position	+N/-S	0.0 usft	Northing:	895,355.27 usft	Latitude:	33° 27' 39.348 N
	+E/-W	0.0 usft	Easting:	595,224.55 usft	Longitude:	104° 1' 15.964 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	0.0 usft

Wellbore	VH - Job #32K1010766				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2010	10/10/2010	8.04	61.28	49,440

Design		VH - Job #32K1010766			
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	91.41	

Survey Program	Date	10/30/2010			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	6,456.0	Actual (VH - Job #32K1010766)	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	0.68	153.11	100.0	-0.5	0.3	153.11	0.6
200.0	0.74	152.90	200.0	-1.6	0.8	153.04	1.8
300.0	0.76	158.16	300.0	-2.8	1.4	154.09	3.1
400.0	0.77	161.13	400.0	-4.1	1.8	155.75	4.5
500.0	0.55	156.81	500.0	-5.2	2.2	156.48	5.6
600.0	0.43	145.04	600.0	-5.9	2.6	155.85	6.5
700.0	0.55	137.89	700.0	-6.6	3.2	154.13	7.3
800.0	0.40	141.09	800.0	-7.2	3.7	152.62	8.1
900.0	0.52	122.60	900.0	-7.7	4.3	150.70	8.8
1,000.0	0.49	122.40	999.9	-8.2	5.1	148.22	9.6
1,100.0	0.40	78.46	1,099.9	-8.3	5.8	145.32	10.1

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Wellbore:	VH - Job #32K1010766	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K1010766	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	0.50	79.46	1,199.9	-8.2	6.5	141.38	10.5
1,300.0	0.59	90.36	1,299.9	-8.1	7.5	137.31	11.0
1,400.0	0.69	61.75	1,399.9	-7.8	8.5	132.55	11.6
1,500.0	0.78	57.10	1,499.9	-7.2	9.6	126.69	12.0
1,600.0	0.81	52.55	1,599.9	-6.4	10.8	120.65	12.5
1,700.0	0.85	49.92	1,699.9	-5.5	11.9	114.70	13.1
1,800.0	0.82	2.70	1,799.9	-4.3	12.5	108.90	13.2
1,900.0	0.82	339.55	1,899.9	-2.9	12.3	103.26	12.6
2,000.0	0.83	343.32	1,999.9	-1.5	11.8	97.37	11.9
2,100.0	0.64	5.94	2,099.9	-0.3	11.7	91.38	11.7
2,200.0	0.64	358.69	2,199.9	0.8	11.7	85.93	11.7
2,300.0	0.51	5.12	2,299.9	1.8	11.7	81.12	11.9
2,400.0	0.49	15.28	2,399.9	2.7	11.9	77.26	12.2
2,500.0	0.55	24.87	2,499.8	3.5	12.2	73.84	12.7
2,600.0	0.41	20.83	2,599.8	4.3	12.5	71.04	13.3
2,700.0	0.36	22.48	2,699.8	4.9	12.8	68.90	13.7
2,800.0	0.29	17.13	2,799.8	5.5	13.0	67.17	14.1
2,900.0	0.24	45.23	2,899.8	5.9	13.2	66.09	14.4
3,000.0	0.15	33.24	2,999.8	6.1	13.4	65.52	14.8
3,100.0	0.09	40.26	3,099.8	6.3	13.5	65.13	14.9
3,200.0	0.16	2.05	3,199.8	6.5	13.6	64.53	15.1
3,300.0	0.15	67.00	3,299.8	6.7	13.7	64.08	15.3
3,400.0	0.16	109.09	3,399.8	6.7	14.0	64.47	15.5
3,500.0	0.20	100.62	3,499.8	6.6	14.3	65.21	15.7
3,600.0	0.14	128.88	3,599.8	6.5	14.6	65.96	15.9
3,700.0	0.30	93.67	3,699.8	6.4	14.9	66.78	16.2
3,800.0	0.31	76.86	3,799.8	6.4	15.4	67.35	16.7
3,900.0	0.49	54.10	3,899.8	6.8	16.0	67.17	17.4
4,000.0	0.62	37.53	3,999.8	7.4	16.7	66.03	18.3
4,100.0	0.49	30.08	4,099.8	8.2	17.3	64.50	19.1
4,200.0	0.62	33.33	4,199.8	9.1	17.8	63.01	19.9
4,300.0	0.58	33.83	4,299.8	9.9	18.4	61.59	20.9
4,400.0	0.32	27.20	4,399.8	10.6	18.8	60.55	21.5
4,500.0	0.35	37.71	4,499.8	11.1	19.1	59.84	22.1
4,600.0	0.23	6.98	4,599.8	11.5	19.3	59.14	22.5
4,700.0	0.18	23.77	4,699.8	11.9	19.4	58.51	22.7
4,800.0	0.11	17.09	4,799.8	12.1	19.5	58.13	22.9
4,900.0	0.09	259.96	4,899.8	12.2	19.4	57.90	22.9
5,000.0	0.09	337.97	4,999.8	12.2	19.3	57.63	22.9
5,100.0	0.05	203.85	5,099.8	12.3	19.3	57.50	22.8
5,200.0	0.51	119.23	5,199.8	12.0	19.6	58.53	23.0
5,300.0	0.70	107.40	5,299.8	11.6	20.6	60.59	23.7
5,400.0	0.68	107.33	5,399.8	11.3	21.8	62.64	24.5
5,500.0	1.75	86.76	5,499.8	11.2	23.8	64.91	26.3

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Design:	VH - Job #32K1010766	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	3.40	99.00	5,599.7	10.8	28.3	69.13	30.3
5,700.0	3.87	103.17	5,699.5	9.6	34.5	74.52	35.8
5,800.0	4.56	98.75	5,799.2	8.2	41.7	78.90	42.5
5,900.0	4.79	98.20	5,898.9	7.0	49.8	82.02	50.3
6,000.0	4.74	98.91	5,998.5	5.7	58.0	84.34	58.3
6,100.0	5.54	100.49	6,098.1	4.2	66.8	86.38	67.0
6,200.0	5.53	101.98	6,197.6	2.4	76.3	88.24	76.3
6,300.0	5.44	102.81	6,297.2	0.3	85.6	89.80	85.6
6,400.0	5.11	101.47	6,396.8	-1.6	94.6	90.99	94.6
6,456.0	5.18	97.10	6,452.5	-2.4	99.6	91.41	99.6



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Well: Loving "7" Fee #1H
Wellbore: VH - Job #32K1010766
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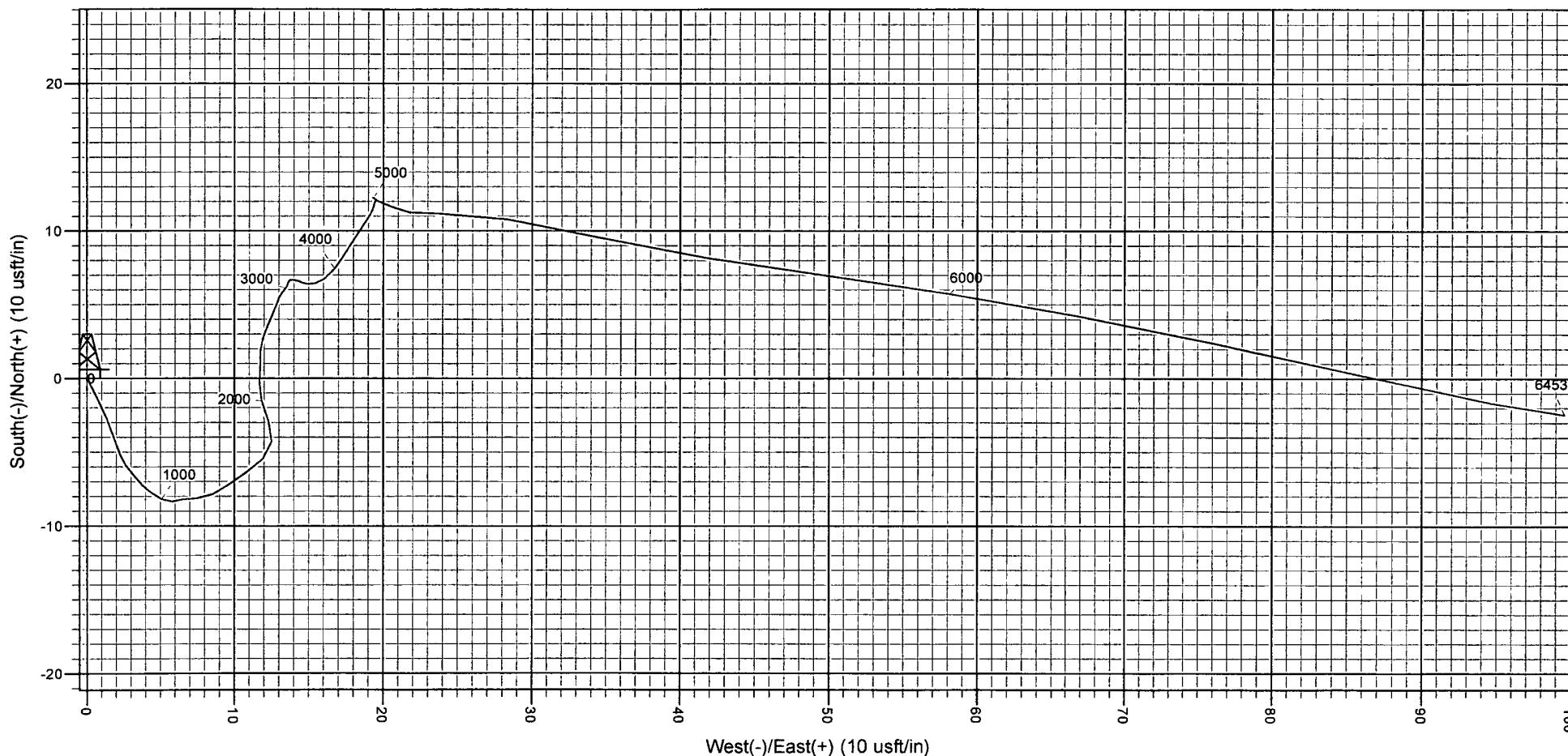


Azimuths to Gnd North
True North: -0.17°
Magnetic North: 7.87°

Magnetic Field
Strength: 49440.4nT
Dip Angle: 61.28°
Date: 10/10/2010
Model: BGGM2010

WELL DETAILS: Loving "7" 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	895355.27	595224.55	33° 27' 39.348 N	104° 1' 15.964 W	



PROJECT DETAILS: Wildcat (Chaves County, NM)
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° 27' 39.348 N
Longitude: 104° 1' 15.964 W
Positional Uncertainty: 0.0
Convergence: 0.17
Local North: Grid