

DEVON ENERGY

Wildcat

Eddy County, NM

Snapping 10 Federal #1H

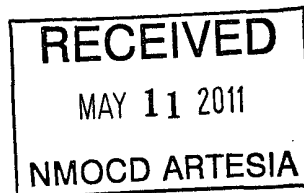
VH - Job #32K0710554

30-015-37899

Survey: Actual

SDI Standard Survey Report

21 August, 2010



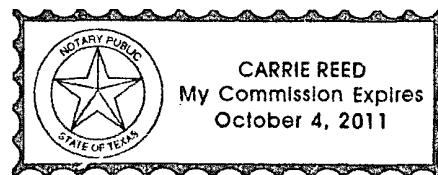
This survey is correct to the best of my knowledge and is supported by actual field data.

Richard

Notorized this date 23rd of August, 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:	Site Eddy County, NM
Project:	Wildcat	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Snapping 10 Federal #1H	North Reference:	Grid
Wellbore:	VH - Job #32K0710554	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0710554	Database:	EDM-Regulatory

Project:	Wildcat		
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		

Well:	Snapping 10 Federal #1H, Directional (Pathfinder)				
Well Position	+N/-S	0.0 usft	Northing:	387,473.08 usft	Latitude: 32° 3' 50.400 N
	+E/-W	0.0 usft	Easting:	676,368.88 usft	Longitude: 103° 45' 50.400 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level: 0.0 usft

Wellbore	VH - Job #32K0710554				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2000	12/31/2004	8.64	60.25	49,326

Design	VH - Job #32K0710554				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.0	0.0	0.0	139.79	

Survey Program	Date 8/21/2010				
From	To	Survey (Wellbore)	Tool Name	Description	
(usft)	(usft)				
100.0	8,425.0	Actual (VH - Job #32K0710554)	Keeper	Keeper Gyro	

Survey								
Measured Depth	Inclination	Azimuth	True Vertical	North/South	East/West	Closure Azimuth	Closure Distance	
(usft)	(°)	(°)	Depth	(usft)	(usft)	(°)	(usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.0	
100.0	0.44	40.92	100.0	0.3	0.3	40.92	0.4	
200.0	0.71	45.09	200.0	1.0	0.9	42.78	1.4	
300.0	0.76	51.56	300.0	1.9	1.9	45.50	2.7	
400.0	0.61	52.52	400.0	2.6	2.8	47.51	3.9	
500.0	0.60	46.16	500.0	3.3	3.6	47.91	4.9	
600.0	0.51	20.38	600.0	4.1	4.2	45.73	5.8	
700.0	0.56	34.76	700.0	4.9	4.6	43.31	6.7	
800.0	0.74	92.38	800.0	5.3	5.5	46.43	7.6	
900.0	1.19	89.76	899.9	5.2	7.2	54.01	8.9	
1,000.0	1.39	88.85	999.9	5.3	9.5	60.90	10.8	
1,100.0	1.35	90.80	1,099.9	5.3	11.9	66.01	13.0	
1,200.0	1.70	100.60	1,199.9	5.0	14.5	71.01	15.3	
1,300.0	2.46	105.21	1,299.8	4.2	18.0	77.03	18.5	
1,400.0	2.39	109.40	1,399.7	2.9	22.1	82.52	22.2	
1,500.0	2.24	113.41	1,499.6	1.4	25.8	86.84	25.9	
1,600.0	1.99	116.57	1,599.5	-0.1	29.2	90.25	29.2	

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Site:	Eddy County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Snapping 10 Federal #1H	North Reference:	Grid
Wellbore:	VH - Job #32K0710554	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0710554	Database:	EDM-Regulatory

Survey								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)	
1,700.0	1.81	118.04	1,699.5	-1.6	32.1	92.93	32.2	
1,800.0	1.46	129.33	1,799.5	-3.2	34.5	95.29	34.6	
1,900.0	1.30	138.85	1,899.4	-4.9	36.2	97.63	36.5	
2,000.0	1.15	149.76	1,999.4	-6.6	37.5	99.95	38.0	
2,100.0	1.12	152.14	2,099.4	-8.3	38.4	102.20	39.3	
2,200.0	1.23	154.45	2,199.4	-10.1	39.4	104.45	40.6	
2,300.0	1.69	141.91	2,299.3	-12.3	40.7	106.76	42.5	
2,400.0	1.94	133.51	2,399.3	-14.6	42.9	108.80	45.3	
2,500.0	2.05	130.85	2,499.2	-16.9	45.4	110.43	48.5	
2,600.0	1.79	127.13	2,599.2	-19.0	48.0	111.62	51.7	
2,700.0	1.78	125.09	2,699.1	-20.9	50.6	112.44	54.7	
2,800.0	1.85	130.99	2,799.1	-22.8	53.1	113.28	57.8	
2,900.0	1.82	136.52	2,899.0	-25.0	55.4	114.34	60.8	
3,000.0	1.43	131.97	2,999.0	-27.0	57.4	115.22	63.4	
3,100.0	1.51	131.08	3,098.9	-28.7	59.3	115.85	65.9	
3,200.0	1.26	125.66	3,198.9	-30.2	61.2	116.29	68.3	
3,300.0	1.20	121.31	3,298.9	-31.4	63.0	116.51	70.4	
3,400.0	1.23	121.77	3,398.9	-32.5	64.8	116.66	72.5	
3,500.0	2.10	120.83	3,498.8	-34.0	67.3	116.84	75.4	
3,600.0	2.62	127.93	3,598.7	-36.4	70.6	117.24	79.5	
3,700.0	2.89	131.64	3,698.6	-39.5	74.3	117.96	84.2	
3,800.0	3.37	134.62	3,798.5	-43.2	78.3	118.88	89.4	
3,900.0	3.22	135.75	3,898.3	-47.3	82.4	119.85	95.0	
4,000.0	2.91	134.73	3,998.2	-51.1	86.1	120.67	100.1	
4,100.0	2.42	132.75	4,098.1	-54.3	89.5	121.25	104.7	
4,200.0	2.26	133.58	4,198.0	-57.1	92.5	121.69	108.7	
4,300.0	2.16	130.13	4,297.9	-59.7	95.3	122.04	112.5	
4,400.0	1.89	131.61	4,397.8	-62.0	98.0	122.31	115.9	
4,500.0	1.83	134.23	4,497.8	-64.2	100.4	122.59	119.1	
4,600.0	1.59	128.04	4,597.7	-66.1	102.6	122.81	122.1	
4,700.0	1.19	132.80	4,697.7	-67.7	104.5	122.95	124.5	
4,800.0	1.02	129.51	4,797.7	-69.0	105.9	123.07	126.4	
4,900.0	0.69	130.69	4,897.7	-69.9	107.1	123.15	127.9	
5,000.0	0.47	142.43	4,997.7	-70.7	107.8	123.25	128.9	
5,100.0	0.17	216.60	5,097.7	-71.1	107.9	123.37	129.2	
5,200.0	0.16	266.23	5,197.7	-71.2	107.7	123.48	129.1	
5,300.0	0.21	277.58	5,297.7	-71.2	107.4	123.55	128.8	
5,400.0	0.15	273.79	5,397.7	-71.2	107.1	123.62	128.6	
5,500.0	0.22	285.32	5,497.7	-71.1	106.8	123.67	128.3	
5,600.0	0.22	278.31	5,597.7	-71.0	106.4	123.74	127.9	
5,700.0	0.18	275.44	5,697.7	-71.0	106.0	123.81	127.6	
5,800.0	0.29	260.36	5,797.7	-71.0	105.6	123.92	127.3	
5,900.0	0.30	236.26	5,897.7	-71.2	105.2	124.11	127.0	
6,000.0	0.32	223.19	5,997.7	-71.6	104.7	124.34	126.9	

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Site:	Eddy County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Snapping 10 Federal #1H	North Reference:	Grid
Wellbore:	VH - Job #32K0710554	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0710554	Database:	EDM-Regulatory

Survey								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)	
6,100.0	0.47	203.39	6,097.7	-72.1	104.4	124.65	126.9	
6,200.0	0.47	207.60	6,197.7	-72.9	104.0	125.01	127.0	
6,300.0	0.47	207.58	6,297.7	-73.6	103.7	125.38	127.1	
6,400.0	1.50	220.79	6,397.6	-75.0	102.6	126.15	127.1	
6,500.0	0.88	247.30	6,497.6	-76.3	101.1	127.04	126.6	
6,600.0	1.05	244.89	6,597.6	-76.9	99.5	127.71	125.8	
6,700.0	0.91	240.53	6,697.6	-77.7	98.0	128.42	125.1	
6,800.0	0.92	240.46	6,797.6	-78.5	96.6	129.10	124.5	
6,900.0	1.03	243.51	6,897.6	-79.3	95.1	129.82	123.8	
7,000.0	0.78	248.22	6,997.5	-80.0	93.7	130.48	123.1	
7,100.0	0.97	232.03	7,097.5	-80.7	92.4	131.15	122.7	
7,200.0	0.94	220.90	7,197.5	-81.9	91.2	131.92	122.5	
7,300.0	1.16	221.29	7,297.5	-83.2	90.0	132.78	122.6	
7,400.0	0.93	211.63	7,397.5	-84.7	88.9	133.63	122.8	
7,500.0	1.00	204.93	7,497.5	-86.2	88.1	134.38	123.2	
7,600.0	1.04	196.31	7,597.5	-87.8	87.4	135.13	123.9	
7,700.0	1.22	192.31	7,697.4	-89.8	87.0	135.90	125.0	
7,800.0	1.21	188.93	7,797.4	-91.8	86.6	136.69	126.2	
7,900.0	1.08	186.50	7,897.4	-93.8	86.3	137.39	127.5	
8,000.0	1.05	189.33	7,997.4	-95.7	86.0	138.03	128.7	
8,100.0	1.26	185.43	8,097.4	-97.7	85.8	138.70	130.0	
8,200.0	1.20	159.37	8,197.3	-99.7	86.1	139.21	131.7	
8,300.0	1.20	158.16	8,297.3	-101.7	86.8	139.51	133.7	
8,400.0	1.24	148.74	8,397.3	-103.6	87.8	139.72	135.8	
8,425.0	1.65	159.27	8,422.3	-104.1	88.0	139.79	136.4	



Scientific Drilling
Directional Drilling Operations

Project: Wildcat
Eddy County, NM
Well: Snapping 10 Federal #1H
Wellbore: VH - Job #32K0710554
Design: VH - Job #32K0710554



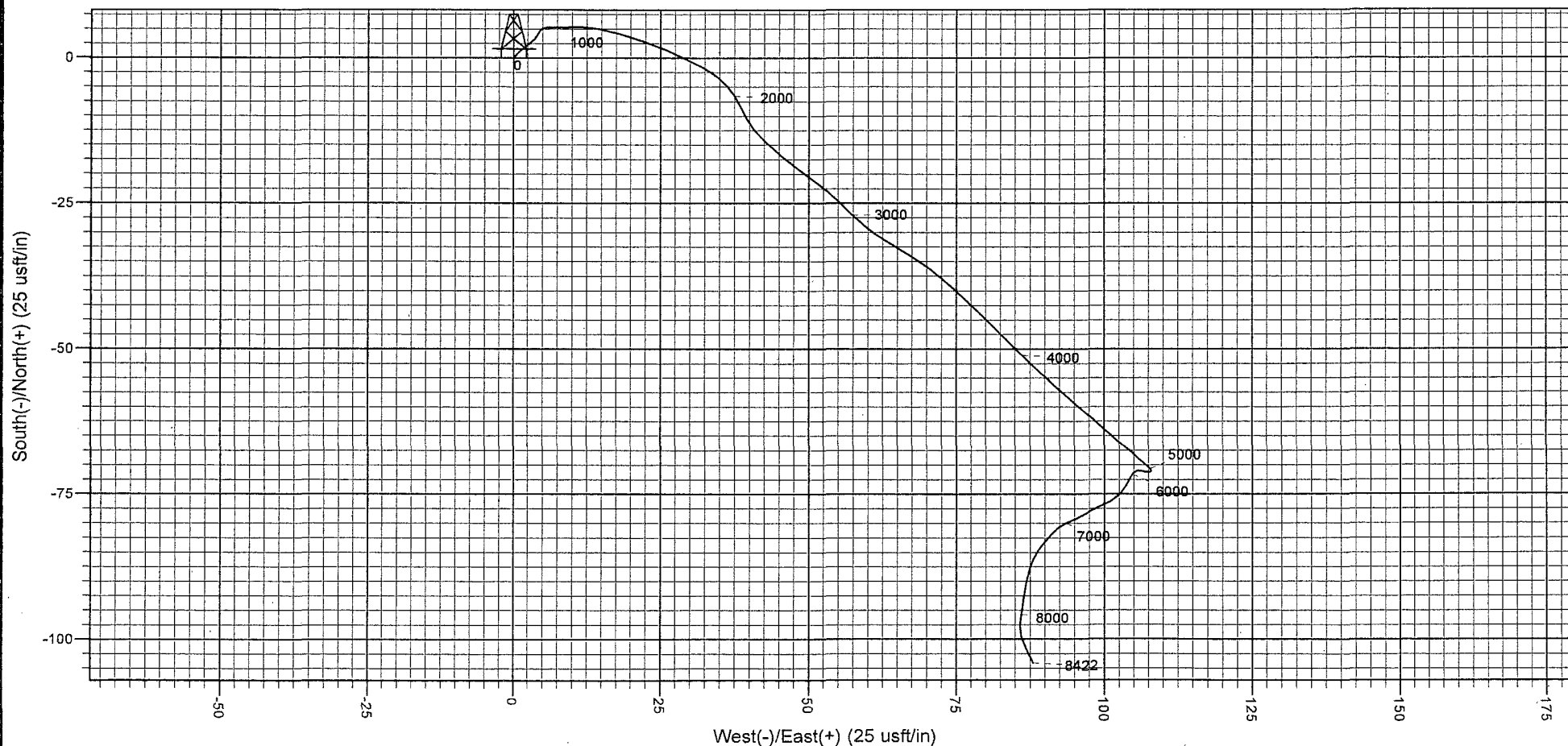
Azimuths to Grid North
True North: -0.30°
Magnetic North: 8.34°
Magnetic Field
Strength: 49326.2snT
Dip Angle: 60.25°
Date: 12/31/2004
Model: IGRF2000

WELL DETAILS: Snapping 10 Federal #1H

WELL @ 0.0usft (Original Well Elev)

Ground Level: 0.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	387473.08	676368.88	32° 3' 50.400 N	103° 45' 50.400 W	



PROJECT DETAILS: Wildcat
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° 3' 50.400 N
Longitude: 103° 45' 50.400 W
Positional Uncertainty: 0.0
Convergence: 0.30
Local North: Grid