

DEVON ENERGY

Wildcat (Eddy County, NM)

Eddy County, NM

Snapping "11" Federal #1H

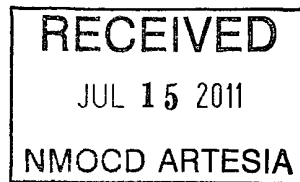
VH - Job #32K1110931

30-015-38193

Survey: Actual

SDI Standard Survey Report

17 December, 2010



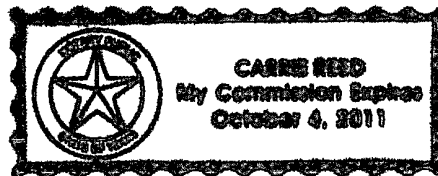
This survey is correct to the best of my knowledge and is supported by actual field data.

Richard

Notorized this date 17th of December, 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 Snapping "11" Federal #1H
Project:	Wildcat (Eddy County, NM)	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Snapping "11" Federal #1H	North Reference:	Grid
Wellbore:	VH - Job #32K1110931	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K1110931	Database:	EDM-Regulatory

Project:	Wildcat (Eddy 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:	Eddy County, NM		
Site Position:	Northing:	387,473.08 usft	Latitude: 32° 3' 50.400 N
From: Lat/Long	Easting:	676,368.88 usft	Longitude: 103° 45' 50.400 W
Position Uncertainty: 0.0 usft	Slot Radius:	13-3/16"	Grid Convergence: 0 30 °

Well:	Snapping "11" Federal #1H, Directional (DDC)		
Well Position	+N-S	0.0 usft	Northing: 382,889.05 usft
	+E-W	0.0 usft	Easting: 680,080.99 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
			Ground Level: 0.0 usft

Wellbore:	VH - Job #32K1110931		
Magnetics	Model Name	Sample Date	Declination (°)
	BGGM2010	11/25/2010	7.78
			Dip Angle (°)
			60 01
			Field Strength (nT)
			48,608

Design:	VH - Job #32K1110931		
Audit Notes:			
Version: 1 0	Phase:	ACTUAL	Tie On Depth: 0 0
Vertical Section:	Depth From (TVD)	+N-S (usft)	+E-W (usft)
	0 0	0.0	0.0
			Direction (°)
			359 62

Survey Program	Date: 12/17/2010		
From (usft)	To (usft)	Survey (Wellbore):	Tool Name
100 0	1,786 0	Actual (VH - Job #32K1110931)	Keeper
			Description: Keeper Gyro

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 25	61.27	100.0	0 1	0 2	61 27	0.2
200.0	0 12	74.15	200 0	0 2	0 5	63.75	0 5
300 0	0.13	196.24	300.0	0 2	0 6	74 04	0 6
400 0	0.63	84 71	400.0	0 1	1 1	84.66	1 1
500 0	0.68	91 41	500 0	0 1	2 2	86.48	2.2
600 0	0.45	82.43	600 0	0 2	3 2	86.90	3 2
700 0	0.60	78 88	700.0	0 3	4.1	85.45	4.1
800 0	0.58	71 62	800 0	0 6	5 1	83 43	5 1
900.0	0 61	86.39	900 0	0 8	6 1	82 72	6 1
1,000 0	0.59	77 28	1,000.0	0 9	7.1	82.60	7.2
1,100.0	0.57	82.63	1,100.0	1.1	8 1	82.27	8.2

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SDI Standard Survey Report

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Site:	Eddy County, NM.	MD Reference:	WELL @ 0 0usft (Original Well Elev)
Well:	Snapping "11" Federal #1H	North Reference:	Grid
Wellbore:	VH - Job #32K1110931	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K1110931	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	0.37	81.12	1,200.0	1.2	8.9	82.25	9.0
1,300.0	0.40	100.29	1,300.0	1.2	9.6	82.85	9.7
1,400.0	0.33	71.82	1,400.0	1.2	10.2	83.13	10.3
1,500.0	0.10	81.65	1,500.0	1.3	10.6	82.81	10.7
1,600.0	0.17	38.59	1,600.0	1.5	10.8	82.26	10.9
1,700.0	0.25	82.58	1,700.0	1.6	11.1	81.74	11.2
1,786.0	0.27	350.09	1,786.0	1.8	11.2	80.73	11.4



Scientific Drilling
Directional Drilling Operations

Project: Wildcat (Eddy County, NM)
Eddy County, NM
Well: Snapping "11" Federal #1H
Wellbore: VH - Job #32K1110931
Design: VH - Job #32K1110931



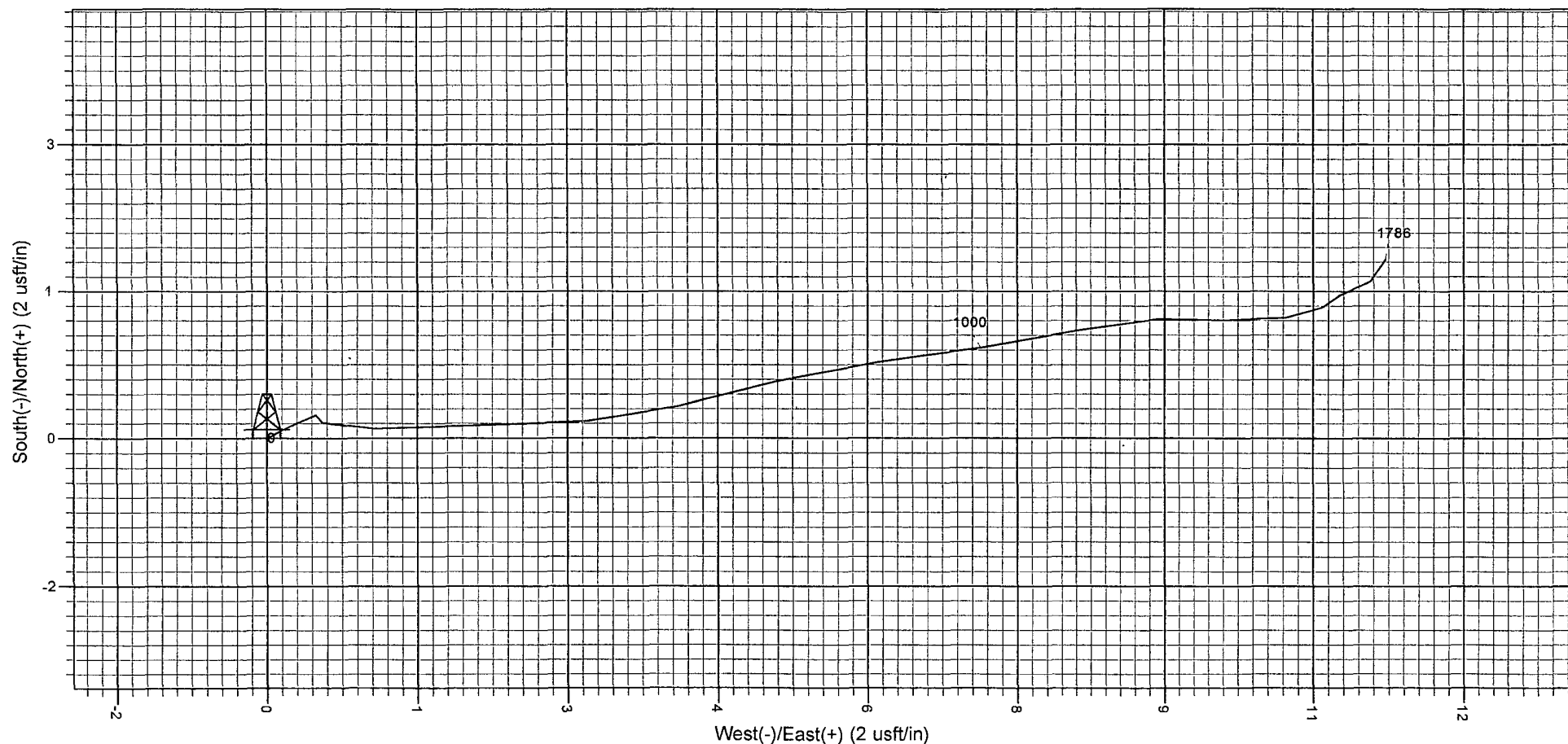
Azimuths to Grid North
True North: -0.31°
Magnetic North: 7.47°

Magnetic Field
Strength: 48607.5nT
Dip Angle: 60.01°
Date: 11/25/2010
Model: BGGM2010

WELL DETAILS: Snapping "11" 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	382889.05	680080.99	$32^\circ 3' 4.840\text{ N}$	$103^\circ 45' 7.550\text{ W}$	



PROJECT DETAILS: Wildcat (Eddy 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: Eddy County, NM
Site Centre Latitude: $32^\circ 3' 50.400\text{ N}$
Longitude: $103^\circ 45' 50.400\text{ W}$
Positional Uncertainty: 0.0
Convergence: 0.30
Local North: Grid