

DEVON ENERGY

Wildcat (Lea County, NM)

Lea County, NM

Trionyx "6" Federal #1H

VH - Job #32K0411365

HOBBS OCD

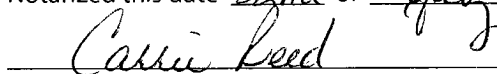
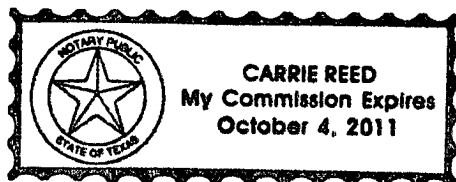
NOV 22 2011

RECEIVED

Survey: Actual

SDI Standard Survey Report

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

Notarized this date 22nd of July, 2011.Notary Signature
County of Midland
State of Texas

Scientific Drilling International, Inc.

SDI Standard Survey Report



Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well Trionyx "6" Federal #1H
Project:	Wildcat (Lea County, NM)	TVD Reference:	WELL @ 0 0usft (Original Well Elev)
Site:	Lea County, NM	MD Reference:	WELL @ 0 0usft (Original Well Elev)
Well:	Trionyx "6" Federal #1H	North Reference:	Grid
Wellbore:	VH - Job #32K0411365	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0411365	Database:	EDM-Regulatory

Project	Wildcat (Lea 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	Lea County, NM		
Site Position:		Northing:	419,798 73 usft
From:	Lat/Long	Easting:	689,831 11 usft
Position Uncertainty:	0 0 usft	Slot Radius:	0"
		Grid Convergence:	0 33 °

Well	Trionyx "6" Federal #1H, Directional (Weatherford)		
Well Position	+N/-S	0 0 usft	Northing: 419,798 73 usft
	+E/-W	0 0 usft	Easting: 689,831 11 usft
Position Uncertainty	0 0 usft	Wellhead Elevation:	usft
		Ground Level:	0 0 usft

Wellbore	VH - Job #32K0411365		
Magnetics	Model Name	Sample Date	Declination
	IGRF2010	4/24/2011	7 67
			Dip Angle
			60 10
			Field Strength
			48,597

Design	VH - Job #32K0411365		
Audit Notes:			
Version:	1 0	Phase:	ACTUAL
		Tie On Depth:	0 0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0 0	0 0	0 0
			Direction
			352 42

Survey Program	Date 7/20/2011		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
100 0	11,729 0	Actual (VH - Job #32K0411365)	Keeper
			Description
			Keeper Gyro

Survey			
Measured Depth	Inclination	Azimuth	True Vertical
(usft)	(°)	(°)	Depth
0 0	0 00	0 00	0 0
100 0	0 55	354 60	100 0
200 0	0 64	45 35	200 0
300 0	0 60	348 76	300 0
400 0	0 26	340 42	400 0
500 0	0 38	43 88	500 0
600 0	0 52	43 92	600 0
700 0	0 40	82 79	700 0
800 0	0 43	89 80	800 0
900 0	0 60	60 14	900 0
1,000 0	0 69	80 32	1,000 0
1,100 0	0 97	77 96	1,100 0
			North/South
			(usft)
			0 0
			0 5
			1 3
			2 3
			3 0
			3 4
			4 0
			4 4
			4 4
			4 7
			5 0
			5 3
			East/West
			(usft)
			0 0
			0 0
			0 3
			0 6
			0 4
			0 6
			1 1
			1 8
			2 5
			3 3
			4 4
			5 8
			Closure Azimuth
			(°)
			0 00
			354 60
			12 83
			14 96
			8 10
			9 55
			15 68
			22 20
			29 57
			35 48
			41 01
			47 50
			Closure Distance
			(usft)
			0 0
			0 5
			1 4
			2 3
			3 0
			3 5
			4 2
			4 7
			5 1
			5 7
			6 7
			7 9

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Well:	Trionyx "6" Federal #1H	North Reference:	Grid
Wellbore:	VH - Job #32K0411365	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0411365	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 77	69 55	1,199 9	5 7	7 3	51 73	9 2
1,300 0	0 70	85 71	1,299 9	6 0	8 5	54 74	10 4
1,400 0	0 69	61 50	1,399 9	6 3	9 6	56 65	11 5
1,500 0	0 58	73 94	1,499 9	6 8	10 7	57 57	12 6
1,600 0	0 52	91 30	1,599 9	6 9	11 6	59 24	13 5
1,700 0	0 38	83 73	1,699 9	6 9	12 4	60 77	14 2
1,800 0	0 19	81 19	1,799 9	7 0	12 9	61 50	14 6
1,900 0	0 05	117 93	1,899 9	7 0	13 1	61 86	14 8
2,000 0	0 11	320 27	1,999 9	7 0	13 0	61 64	14 8
2,100 0	0 02	220 64	2,099 9	7 1	13 0	61 30	14 8
2,200 0	0 12	139 57	2,199 9	7 0	13 0	61 72	14 8
2,300 0	0 33	124 79	2,299 9	6 8	13 3	63 09	15 0
2,400 0	0 34	93 17	2,399 9	6 6	13 9	64 59	15 4
2,500 0	0 70	109 61	2,499 9	6 4	14 7	66 64	16 1
2,600 0	0 57	109 99	2,599 9	6 0	15 8	69 21	16 9
2,700 0	0 89	104 23	2,699 9	5 6	17 0	71 68	17 9
2,800 0	0 97	96 60	2,799 9	5 3	18 6	73 97	19 4
2,900 0	0 64	111 26	2,899 9	5 0	20 0	75 82	20 6
3,000 0	0 24	129 04	2,999 9	4 7	20 6	77 15	21 2
3,100 0	0 23	58 43	3,099 9	4 7	21 0	77 42	21 5
3,200 0	0 37	37 52	3,199 9	5 0	21 3	76 71	21 9
3,300 0	0 81	33 69	3,299 9	5 9	21 9	74 98	22 7
3,400 0	0 89	14 72	3,399 8	7 2	22 5	72 21	23 7
3,500 0	0 79	3 23	3,499 8	8 7	22 8	69 16	24 4
3,600 0	0 90	355 58	3,599 8	10 1	22 7	65 97	24 9
3,700 0	0 56	20 26	3,699 8	11 4	22 8	63 52	25 5
3,800 0	0 77	62 52	3,799 8	12 1	23 6	62 78	26 6
3,900 0	0 74	88 91	3,899 8	12 5	24 9	63 36	27 8
4,000 0	1 45	124 98	3,999 8	11 8	26 5	66 11	29 0
4,100 0	2 26	138 19	4,099 7	9 6	28 9	71 69	30 4
4,200 0	2 14	144 97	4,199 7	6 6	31 3	78 15	32 0
4,300 0	1 95	149 50	4,299 6	3 6	33 2	83 87	33 4
4,400 0	1 32	150 13	4,399 6	1 1	34 6	88 18	34 7
4,500 0	1 15	144 52	4,499 5	-0 7	35 8	91 14	35 8
4,600 0	1 07	148 42	4,599 5	-2 3	36 9	93 61	36 9
4,700 0	1 12	147 57	4,699 5	-3 9	37 9	95 95	38 1
4,800 0	1 10	147 84	4,799 5	-5 6	38 9	98 16	39 3
4,900 0	1 15	146 84	4,899 5	-7 2	40 0	100 26	40 6
5,000 0	1 15	140 59	4,999 4	-8 9	41 2	102 13	42 1
5,100 0	1 06	139 86	5,099 4	-10 3	42 4	103 70	43 6
5,200 0	1 01	139 40	5,199 4	-11 7	43 6	105 04	45 1
5,300 0	0 87	135 17	5,299 4	-12 9	44 7	106 13	46 5
5,400 0	0 64	138 30	5,399 4	-13 9	45 6	106 93	47 7
5,500 0	0 62	139 98	5,499 4	-14 7	46 3	107 62	48 6

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Well:	Trionyx "6" Federal #1H	North Reference:	Grid
Wellbore:	VH - Job #32K0411365	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0411365	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	0 62	114 44	5,599 4	-15 3	47 1	108 03	49 6	
5,700 0	0 54	110 42	5,699 4	-15 7	48 1	108 12	50 6	
5,800 0	0 54	113 07	5,799 4	-16 1	49 0	108 18	51 5	
5,900 0	0 49	133 54	5,899 4	-16 6	49 7	108 43	52 4	
6,000 0	0 76	134 34	5,999 3	-17 3	50 5	108 93	53 4	
6,100 0	0 54	145 48	6,099 3	-18 2	51 2	109 53	54 4	
6,200 0	0 44	151 15	6,199 3	-18 9	51 7	110 08	55 0	
6,300 0	0 39	170 96	6,299 3	-19 6	51 9	110 65	55 5	
6,400 0	0 38	168 18	6,399 3	-20 2	52 0	111 24	55 8	
6,500 0	0 36	167 42	6,499 3	-20 9	52 2	111 79	56 2	
6,600 0	0 40	172 52	6,599 3	-21 5	52 3	112 36	56 5	
6,700 0	0 82	179 27	6,699 3	-22 6	52 3	113 33	57 0	
6,800 0	0 89	170 87	6,799 3	-24 1	52 5	114 63	57 7	
6,900 0	0 90	167 60	6,899 3	-25 6	52 8	115 87	58 6	
7,000 0	1 13	172 53	6,999 3	-27 3	53 1	117 25	59 7	
7,100 0	1 33	163 53	7,099 3	-29 4	53 5	118 80	61 1	
7,200 0	1 22	161 63	7,199 2	-31 5	54 2	120 21	62 7	
7,300 0	1 40	157 72	7,299 2	-33 7	55 0	121 50	64 5	
7,400 0	1 50	158 14	7,399 2	-36 0	55 9	122 79	66 5	
7,500 0	1 32	145 22	7,499 1	-38 2	57 1	123 79	68 7	
7,600 0	1 16	155 76	7,599 1	-40 1	58 2	124 56	70 6	
7,700 0	1 21	155 91	7,699 1	-41.9	59 0	125 41	72 4	
7,800 0	1 62	161 27	7,799 1	-44 3	59 9	126 46	74 5	
7,900 0	1 56	152 19	7,899 0	-46 8	61 0	127 51	76 9	
8,000 0	1 46	163 76	7,999 0	-49 2	62 0	128 46	79 1	
8,100 0	1 37	161 76	8,099 0	-51 6	62 7	129 45	81 2	
8,200 0	1 37	175 21	8,198 9	-53 9	63 2	130 48	83 0	
8,300 0	1 12	166 74	8,298 9	-56 0	63 5	131 44	84 7	
8,400 0	0 83	201 13	8,398 9	-57 7	63 5	132 27	85 7	
8,500 0	1 05	245 44	8,498 9	-58 7	62 4	133 28	85 7	
8,600 0	1 69	256 94	8,598 9	-59 4	60 1	134 69	84 5	
8,700 0	1 75	243 08	8,698 8	-60 5	57 3	136 55	83 3	
8,800 0	1 47	240 79	8,798 8	-61 8	54 8	138 42	82 6	
8,900 0	1 58	238 15	8,898 7	-63 1	52 5	140 25	82 1	
9,000 0	2 75	240 49	8,998 7	-65 1	49 3	142 86	81 6	
9,100 0	3 24	245 54	9,098 5	-67 4	44 6	146 51	80 8	
9,200 0	3 03	244.77	9,198 4	-69 7	39 6	150 37	80 2	
9,300 0	2 46	234 49	9,298 3	-72 1	35 5	153 78	80 3	
9,400 0	2 32	230 93	9,398 2	-74 6	32 2	156 66	81 2	
9,500 0	2 09	230 55	9,498 1	-77 0	29.2	159 24	82 4	
9,600 0	2 04	223 67	9,598 0	-79 5	26 6	161 52	83 8	
9,700 0	1 98	228 00	9,698 0	-81 9	24 1	163 64	85 4	
9,800 0	2 12	238 55	9,797 9	-84 0	21 2	165 85	86 7	
9,900 0	2 13	237 56	9,897 8	-86 0	18 0	168 15	87 9	

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Site:	Lea County, NM	MD Reference:	WELL @ 0 0usft (Original Well Elev)
Well:	Trionyx "6" Federal #1H	North Reference:	Grid
Wellbore:	VH - Job #32K0411365	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0411365	Database:	EDM-Regulatory

Survey								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)	
10,000 0	2 11	231 32	9,997 8	-88 1	15 0	170 32	89 4	
10,100 0	2 00	223 20	10,097 7	-90 6	12 4	172 20	91 4	
10,200 0	2 68	215 67	10,197 6	-93 7	9 8	174 00	94 3	
10,300 0	2 76	215 11	10,297 5	-97 6	7 1	175 84	97 9	
10,400 0	2 40	219 80	10,397 4	-101 2	4 4	177 52	101 3	
10,500 0	2 24	218 00	10,497 3	-104 3	1 8	178 99	104 4	
10,600 0	2 63	199 07	10,597 2	-108 0	-0 1	180 06	108 0	
10,700 0	3 22	195 20	10,697 1	-112 9	-1 6	180 81	112 9	
10,800 0	3 38	194 00	10,797 0	-118 5	-3 1	181 48	118 5	
10,900 0	3 56	192 27	10,896 8	-124 4	-4 4	182 04	124 5	
11,000 0	3 69	203 33	10,996 6	-130 4	-6 4	182 79	130 5	
11,100 0	2 98	220 65	11,096 4	-135 3	-9 3	183 94	135 6	
11,200 0	2 50	227 08	11,196 3	-138 8	-12 6	185 20	139 3	
11,300 0	3 59	239 87	11,296 1	-141 8	-16 9	186 81	142 8	
11,400 0	3 88	258 05	11,395 9	-144 1	-22 9	189 05	145 9	
11,500 0	3 92	263 01	11,495 7	-145 2	-29 6	191 54	148 2	
11,600 0	3 17	267 37	11,595 5	-145 8	-35 8	193 80	150 1	
11,700 0	2 41	267 27	11,695 4	-146 0	-40 7	195 57	151 5	
11,729 0	2 26	263 87	11,724 4	-146 1	-41 8	195 98	151 9	



Scientific Drilling
Directional Drilling Operations

Project: Wildcat (Lea County, NM)
Lea County, NM
Well: Trionyx "6" Federal #1H
Wellbore: VH - Job #32K0411365
Design: VH - Job #32K0411365

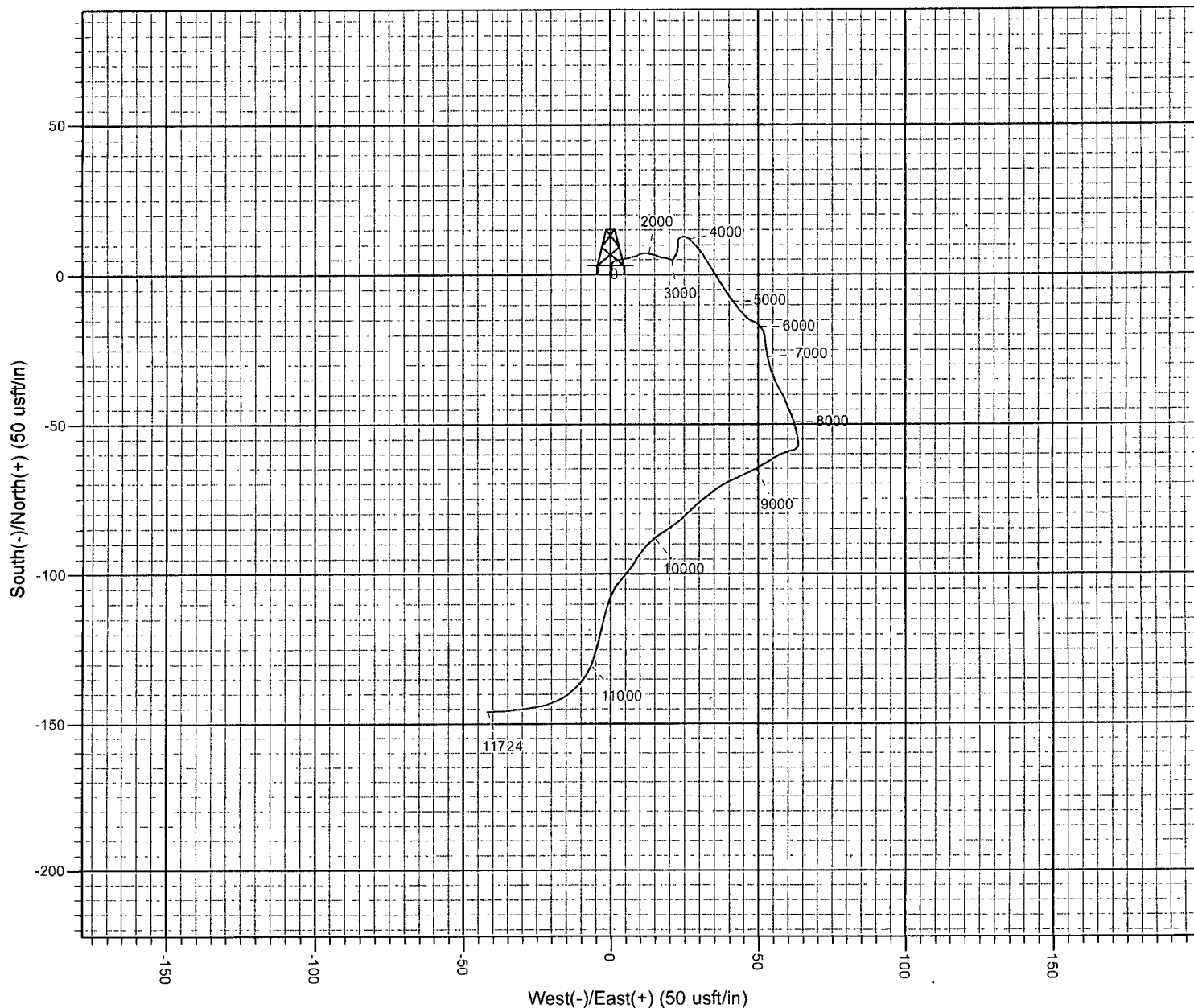


Azimuths to Grid North
True North -0.33°
Magnetic North 7.34°

Magnetic Field
Strength 48596 8snT
Dip Angle 60.10°
Date 4/24/2011
Model IGRF2010

WELL DETAILS: Trionyx "6" 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	419798.73	689831.11	32° 9' 9.565 N	103° 43' 11.824 W	



PROJECT DETAILS: Wildcat (Lea 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: Lea County, NM
Site Centre Latitude: 32° 9' 9.565 N
Longitude: 103° 43' 11.824 W
Positional Uncertainty: 0.0
Convergence: 0.33
Local North: Grid