

30-015-38454

DEVON ENERGY

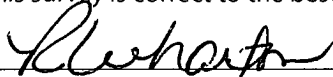
Hackberry
Eddy County, NM
Sirius 17 Federal #2H
VH - Job #32K0411370

Survey: Actual

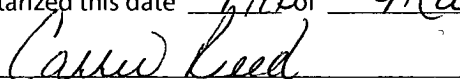
SDI Standard Survey Report

13 May, 2011

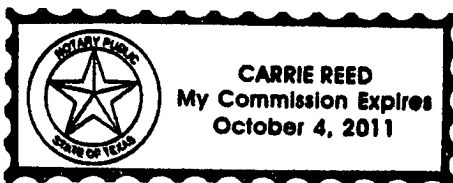
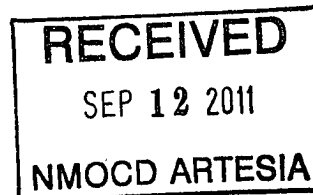
This survey is correct to the best of my knowledge and is supported by actual field data.



Notarized this date 17 of May, 2011.



Notary Signature
County of Midland
State of Texas



Scientific Drilling
Directional Drilling Operations

Scientific Drilling International, Inc.
SDI Standard Survey Report



Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well Sirius 17 Federal #2H
Project:	Hackberry	TVD Reference:	WELL @ 0 0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0 0usft (Original Well Elev)
Well:	Sirius 17 Federal #2H	North Reference:	Grid
Wellbore:	VH - Job #32K0411370	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0411370	Database:	EDM-Regulatory

Project		Hackberry	
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico Central 3002		

Site		Eddy County, NM			
Site Position:		Northing:	615,089 64 usft	Latitude:	32° 40' 8.400 N
From:	Lat/Long	Easting:	1,222,919 56 usft	Longitude:	103° 54' 3 600 W
Position Uncertainty:	0 0 usft	Slot Radius:	13-3/16"	Grid Convergence:	1 27 °

Well	Sirius 17 Federal #2H, Directional (Inwell)					
Well Position	+N/-S	0 0 usft	Northing:	613,141 61 usft	Latitude:	32° 39' 47 980 N
	+E/-W	0 0 usft	Easting:	1,228,195 28 usft	Longitude:	103° 53' 2 440 W
Position Uncertainty	0 0 usft	Wellhead Elevation:	usft	Ground Level:	.	0 0 usft

Wellbore		VH - Job #32K0411370			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	4/26/2011	7 78	60 54	48,886

Design		VH - Job #32K0411370		
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	3 91

Survey Program		Date 5/13/2011		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100 0	9,095 0	Actual (VH - Job #32K0411370)	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 79	319 07	100 0	0 5	-0 5	319 07	0 7
200 0	1 30	310 88	200 0	1 8	-1 8	315 37	2 5
300 0	2 14	298 98	299 9	3 4	-4 3	308 90	5 5
400 0	2 95	294 38	399 8	5 4	-8 2	303 26	9 8
500 0	3 71	295 35	499 7	7 8	-13 5	300 17	15 6
600 0	3 52	295 12	599 5	10 5	-19 2	298 75	21 9
700 0	2 98	297 79	699 3	13 0	-24 3	298 26	27 6
800 0	2 78	300 74	799 2	15 5	-28 7	298 40	32 6
900 0	2 62	300 64	899 1	17 9	-32 7	298 69	37 3
1,000 0	2 29	306 01	999 0	20 2	-36 3	299 15	41 6
1,100 0	1 98	308 03	1,098 9	22 5	-39 3	299 79	45 3

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Site:	Eddy County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Sirius 17 Federal #2H	North Reference:	Grid
Wellbore:	VH - Job #32K0411370	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0411370	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	1.76	309.09	1,198.9	24.5	-41.8	300.38	48.5
1,300.0	1.73	311.94	1,298.8	26.5	-44.1	300.97	51.5
1,400.0	1.38	350.65	1,398.8	28.7	-45.5	302.26	53.8
1,500.0	1.70	22.09	1,498.7	31.3	-45.1	304.72	54.9
1,600.0	1.92	40.71	1,598.7	33.9	-43.4	307.96	55.1
1,700.0	2.15	47.61	1,698.6	36.4	-41.0	311.65	54.8
1,800.0	2.16	50.92	1,798.6	38.9	-38.1	315.57	54.5
1,900.0	2.23	52.96	1,898.5	41.2	-35.1	319.60	54.2
2,000.0	1.89	52.45	1,998.4	43.4	-32.2	323.40	54.1
2,100.0	1.46	61.21	2,098.4	45.0	-29.8	326.49	54.0
2,200.0	1.26	68.79	2,198.3	46.1	-27.7	328.99	53.7
2,300.0	1.11	71.37	2,298.3	46.8	-25.7	331.17	53.4
2,400.0	0.97	81.43	2,398.3	47.2	-24.0	333.06	52.9
2,500.0	1.10	78.44	2,498.3	47.5	-22.2	334.95	52.4
2,600.0	1.07	82.08	2,598.3	47.8	-20.3	336.96	52.0
2,700.0	1.19	96.31	2,698.3	47.8	-18.4	338.98	51.3
2,800.0	1.39	105.80	2,798.2	47.4	-16.2	341.15	50.1
2,900.0	1.16	109.42	2,898.2	46.7	-14.1	343.26	48.8
3,000.0	0.73	104.82	2,998.2	46.2	-12.5	344.88	47.9
3,100.0	0.44	92.02	3,098.2	46.1	-11.5	345.99	47.5
3,200.0	0.45	86.73	3,198.2	46.1	-10.7	346.91	47.3
3,300.0	0.43	83.07	3,298.2	46.1	-10.0	347.83	47.2
3,400.0	0.42	63.10	3,398.2	46.3	-9.3	348.71	47.3
3,500.0	0.18	68.25	3,498.2	46.6	-8.8	349.33	47.4
3,600.0	0.10	53.64	3,598.2	46.7	-8.6	349.61	47.5
3,700.0	0.05	116.45	3,698.2	46.7	-8.5	349.74	47.5
3,800.0	0.11	75.02	3,798.2	46.7	-8.3	349.90	47.5
3,900.0	0.17	73.32	3,898.2	46.8	-8.1	350.19	47.5
4,000.0	0.20	62.64	3,998.2	46.9	-7.8	350.57	47.6
4,100.0	0.36	55.29	4,098.2	47.2	-7.4	351.11	47.7
4,200.0	0.69	34.01	4,198.2	47.8	-6.8	351.93	48.3
4,300.0	0.80	31.99	4,298.2	48.9	-6.1	352.92	49.3
4,400.0	1.01	30.75	4,398.1	50.3	-5.3	354.04	50.6
4,500.0	1.31	22.42	4,498.1	52.1	-4.4	355.21	52.3
4,600.0	1.61	19.97	4,598.1	54.5	-3.5	356.38	54.6
4,700.0	1.77	16.27	4,698.1	57.3	-2.5	357.46	57.3
4,800.0	2.14	12.21	4,798.0	60.6	-1.7	358.38	60.6
4,900.0	2.32	15.77	4,897.9	64.4	-0.8	359.32	64.4
5,000.0	2.45	14.57	4,997.8	68.4	0.3	0.27	68.4
5,100.0	2.44	16.28	5,097.7	72.5	1.5	1.15	72.5
5,200.0	2.44	16.75	5,197.6	76.6	2.7	1.99	76.6
5,300.0	2.36	20.45	5,297.6	80.5	4.0	2.84	80.6
5,400.0	2.29	22.02	5,397.5	84.3	5.5	3.71	84.5
5,500.0	2.30	19.08	5,497.4	88.1	6.9	4.46	88.3

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Well:	Sirius 17 Federal #2H	North Reference:	Grid
Wellbore:	VH - Job #32K0411370	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0411370	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 13	19 54	5,597 3	91 7	8 1	5 08	92 1
5,700 0	1 88	20 25	5,697 3	95 0	9 3	5 61	95 5
5,800 0	1 64	18 31	5,797 2	97 9	10 4	6 04	98 5
5,900 0	1 50	18 50	5,897 2	100 5	11 2	6 37	101 1
6,000 0	1 24	16 81	5,997 1	102 8	11 9	6 63	103 5
6,100 0	1 06	11 54	6,097 1	104 7	12 4	6 78	105 5
6,200 0	0 95	9 59	6,197 1	106 4	12 8	6 84	107 2
6,300 0	0 91	358 93	6,297 1	108 1	12 9	6 80	108 8
6,400 0	0 98	354 38	6,397 1	109 7	12 8	6 65	110 4
6,500 0	1 09	344 03	6,497 1	111 5	12 5	6 37	112 2
6,600 0	1 45	333 09	6,597 0	113 5	11 6	5 84	114 1
6,700 0	1 92	334 20	6,697 0	116 1	10 3	5 07	116 6
6,800 0	2 06	333 58	6,796 9	119 3	8 8	4 21	119 6
6,900 0	1 83	340 45	6,896 9	122 4	7 5	3 48	122 6
7,000 0	1 67	346 06	6,996 8	125 3	6 6	3 00	125 5
7,100 0	1 20	350 06	7,096 8	127 7	6 0	2 70	127 9
7,200 0	1 31	349 52	7,196 8	129 9	5 6	2 49	130 0
7,300 0	1 23	338 19	7,296 8	132 0	5 0	2 19	132 1
7,400 0	1 20	336 48	7,396 7	134 0	4 2	1 80	134 0
7,500 0	1 13	334 81	7,496 7	135 8	3 4	1 43	135 9
7,600 0	1 22	334 32	7,596 7	137 7	2 5	1 04	137 7
7,700 0	0 90	315 07	7,696 7	139 2	1 5	0 61	139 2
7,800 0	0 80	300 13	7,796 7	140 1	0 3	0 13	140 1
7,900 0	0 78	309 86	7,896 7	140 9	-0 8	359 68	140 9
8,000 0	0 59	313 64	7,996 6	141 7	-1 7	359 32	141 7
8,100 0	0 58	324 90	8,096 6	142 5	-2 4	359 05	142 5
8,200 0	0 31	344 67	8,196 6	143 1	-2 7	358 91	143 2
8,300 0	0 02	72 53	8,296 6	143 4	-2 8	358 89	143 4
8,400 0	0 42	135 01	8,396 6	143 1	-2 5	359 00	143 2
8,500 0	1 09	109 01	8,496 6	142 6	-1 3	359 46	142 6
8,600 0	1 26	134 99	8,596 6	141 5	0 3	0 14	141 5
8,700 0	1 65	147 97	8,696 6	139 5	1 9	0 77	139 5
8,800 0	2 45	152 59	8,796 5	136 4	3 6	1 52	136 4
8,900 0	2 24	157 01	8,896 4	132 7	5 4	2 32	132 8
9,000 0	1 64	145 80	8,996 4	129 7	6 9	3 06	129 9
9,095 0	1 42	117 45	9,091 3	128 0	8 7	3 91	128 3



Scientific Drilling
Directional Drilling Operations

Project: Hackberry
Eddy County, NM
Well: Sirius 17 Federal #2H
Wellbore: VH - Job #32K0411370
Design: VH - Job #32K0411370



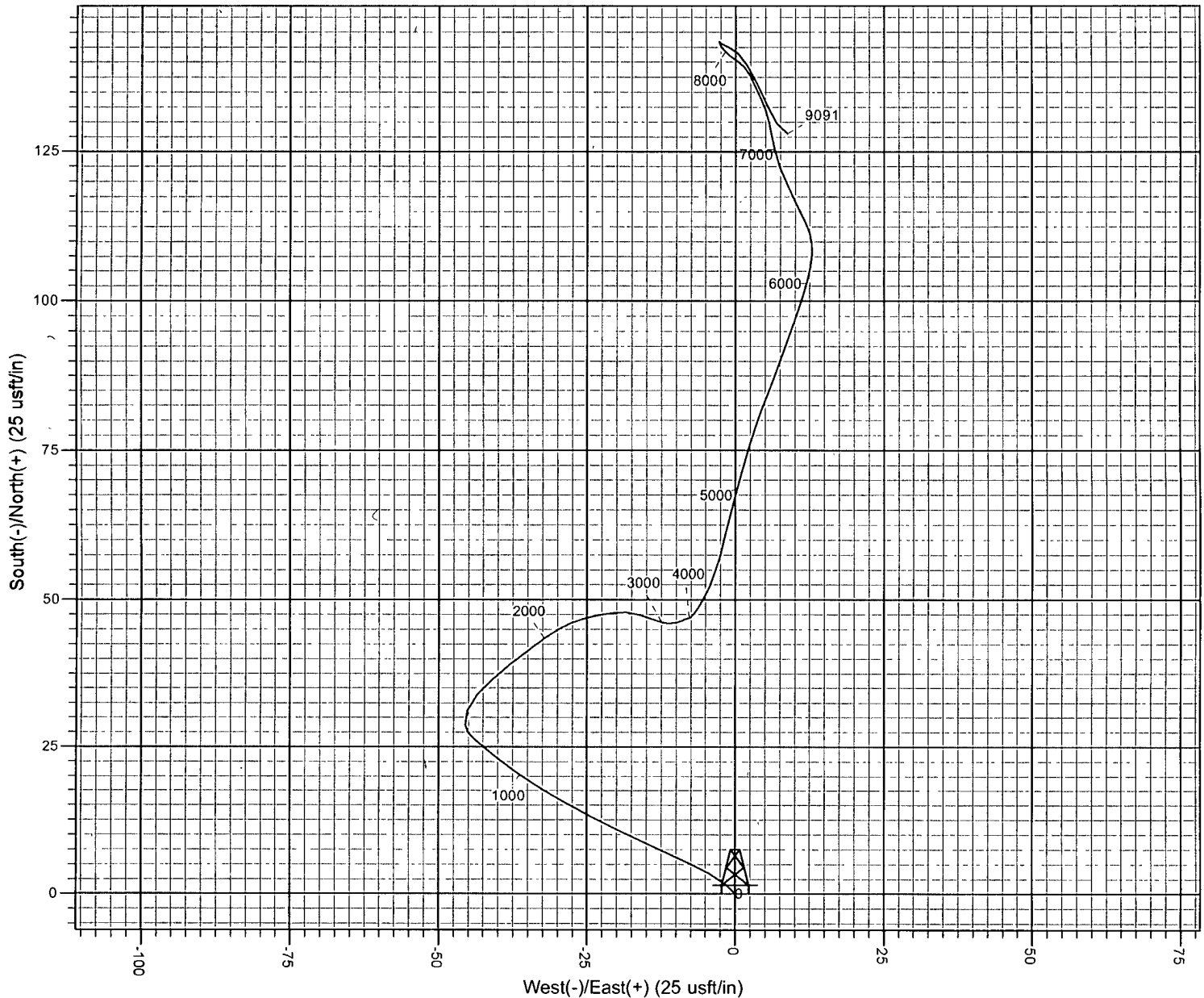
Azimuths to Grid North
True North: -1 28°
Magnetic North: 6 50°

Magnetic Field
Strength 48886 3snT
Dip Angle: 60 54°
Date 4/26/2011
Model: IGRF2010

WELL DETAILS: Sirius 17 Federal #2H
WELL @ 0.0usft (Original Well Elev)

Ground Level: 0 0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	613141.61	1228195.28	32° 39' 47.980 N	103° 53' 2.440 W	



PROJECT DETAILS: Hackberry
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico Central 3002
System Datum: Mean Sea Level

SITE DETAILS: Eddy County, NM
Site Centre Latitude: 32° 40' 8.400 N
Longitude: 103° 54' 3.600 W
Positional Uncertainty: 0.0
Convergence: 1.27
Local North: Grid