

DEVON ENERGY

Hackberry

Eddy County, NM

Strawberry 7 Federal #6H

VH - Job #32K1110866

30-015-38195

Survey: Actual

SDI Standard Survey Report



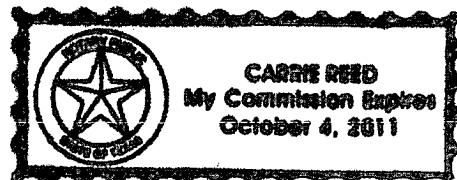
This survey is correct to the best of my knowledge and is supported by actual field data.

Wharton

Notorized this date 17 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 Strawberry 7 Federal #6H
Project:	Hackberry	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Strawberry 7 Federal #6H	North Reference:	Grid
Wellbore:	VH - Job #32K1110866	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K1110866	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	Strawberry 7 Federal #6H, Directional (CUDD)					
Well Position	+N/-S	0.0 usft	Northing:	616,259.98 usft	Latitude:	32° 40' 19.990 N
	+E/-W	0.0 usft	Easting:	1,222,835.48 usft	Longitude:	103° 54' 4.280 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	0.0 usft

Wellbore	VH - Job #32K1110866				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2010	11/6/2010	7.91	60.57	48,973

Design	VH - Job #32K1110866			
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	269.55

Survey Program		Date	12/8/2010		
From (usft)	To (usft)	Survey (Wellbore)		Tool Name	Description
100.0	8,160.0	Actual (VH - Job #32K1110866)		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	0.30	109.50	100.0	-0.1	0.2	109.50	0.3	
200.0	0.27	102.92	200.0	-0.2	0.7	107.46	0.8	
300.0	0.20	53.36	300.0	-0.2	1.1	99.15	1.1	
400.0	0.35	357.81	400.0	0.2	1.2	79.18	1.2	
500.0	0.61	341.17	500.0	1.0	1.0	44.87	1.5	
600.0	0.55	335.08	600.0	2.0	0.7	18.52	2.1	
700.0	0.57	334.38	700.0	2.9	0.2	4.92	2.9	
800.0	0.59	326.07	800.0	3.7	-0.3	356.09	3.7	
900.0	0.35	328.38	900.0	4.4	-0.7	350.97	4.5	
1,000.0	0.26	340.91	1,000.0	4.9	-0.9	349.17	5.0	
1,100.0	0.22	353.17	1,100.0	5.3	-1.0	348.97	5.4	

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Well:	Strawberry 7 Federal #6H	North Reference:	Grid
Wellbore:	VH - Job #32K1110866	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K1110866	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	0.30	43.15	1,200.0	5.7	-0.9	351.22	5.8
1,300.0	0.41	53.94	1,300.0	6.1	-0.4	356.15	6.1
1,400.0	0.62	59.76	1,400.0	6.6	0.3	3.01	6.6
1,500.0	0.70	54.65	1,500.0	7.2	1.3	10.33	7.3
1,600.0	0.89	65.61	1,599.9	7.9	2.5	17.73	8.3
1,700.0	1.07	60.38	1,699.9	8.7	4.0	25.00	9.6
1,800.0	1.13	71.74	1,799.9	9.4	5.8	31.53	11.1
1,900.0	1.27	79.72	1,899.9	9.9	7.8	38.18	12.6
2,000.0	1.35	94.61	1,999.9	10.0	10.1	45.11	14.2
2,100.0	1.44	112.12	2,099.8	9.5	12.4	52.67	15.6
2,200.0	1.68	130.25	2,199.8	8.0	14.7	61.29	16.8
2,300.0	1.90	136.39	2,299.8	5.9	17.0	70.81	18.0
2,400.0	1.95	144.88	2,399.7	3.3	19.1	80.16	19.4
2,500.0	1.82	147.18	2,499.6	0.6	20.9	88.40	20.9
2,600.0	1.41	151.45	2,599.6	-1.8	22.4	94.68	22.4
2,700.0	1.22	147.91	2,699.6	-3.8	23.5	99.21	23.8
2,800.0	1.07	152.56	2,799.6	-5.5	24.5	102.74	25.1
2,900.0	1.07	151.98	2,899.5	-7.2	25.4	105.83	26.4
3,000.0	0.98	165.85	2,999.5	-8.9	26.0	108.78	27.5
3,100.0	0.67	155.95	3,099.5	-10.2	26.5	111.09	28.4
3,200.0	0.67	172.25	3,199.5	-11.3	26.8	112.91	29.1
3,300.0	0.43	200.74	3,299.5	-12.3	26.7	114.62	29.4
3,400.0	0.31	251.08	3,399.5	-12.7	26.4	115.72	29.3
3,500.0	0.51	346.06	3,499.5	-12.4	26.0	115.42	28.8
3,600.0	0.59	6.18	3,599.5	-11.4	25.9	113.74	28.3
3,700.0	0.55	19.32	3,699.5	-10.4	26.2	111.77	28.2
3,800.0	0.56	20.01	3,799.5	-9.5	26.5	109.80	28.1
3,900.0	0.64	43.23	3,899.5	-8.7	27.0	107.77	28.4
4,000.0	0.64	47.80	3,999.5	-7.9	27.8	105.82	28.9
4,100.0	0.63	48.78	4,099.5	-7.1	28.7	104.00	29.5
4,200.0	0.72	5.90	4,199.5	-6.2	29.1	101.94	29.8
4,300.0	0.80	335.17	4,299.5	-4.9	28.9	99.62	29.3
4,400.0	0.87	335.90	4,399.4	-3.6	28.3	97.20	28.5
4,500.0	0.85	343.54	4,499.4	-2.2	27.8	94.47	27.9
4,600.0	0.74	343.69	4,599.4	-0.8	27.4	91.75	27.4
4,700.0	0.76	345.17	4,699.4	0.4	27.0	89.11	27.0
4,800.0	0.60	346.52	4,799.4	1.6	26.7	86.64	26.8
4,900.0	0.66	353.91	4,899.4	2.7	26.6	84.29	26.7
5,000.0	0.57	11.54	4,999.4	3.7	26.6	82.05	26.9
5,100.0	0.57	8.34	5,099.4	4.7	26.8	80.06	27.2
5,200.0	0.65	12.72	5,199.4	5.7	27.0	77.99	27.6
5,300.0	0.65	12.10	5,299.4	6.8	27.2	75.88	28.1
5,400.0	0.68	0.15	5,399.4	8.0	27.3	73.70	28.5
5,500.0	0.58	348.27	5,499.4	9.1	27.2	71.55	28.7

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Well:	Strawberry 7 Federal #6H	North Reference:	Grid
Wellbore:	VH - Job #32K1110866	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K1110866	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	0.59	339.45	5,599.4	10.1	27.0	69.53	28.8
5,700.0	0.60	347.71	5,699.4	11.1	26.7	67.48	28.9
5,800.0	0.60	344.76	5,799.3	12.1	26.4	65.43	29.0
5,900.0	0.63	342.10	5,899.3	13.1	26.1	63.35	29.2
6,000.0	0.54	339.31	5,999.3	14.1	25.8	61.37	29.4
6,100.0	0.64	337.97	6,099.3	15.0	25.4	59.39	29.5
6,200.0	0.56	344.49	6,199.3	16.0	25.1	57.41	29.7
6,300.0	0.13	353.66	6,299.3	16.6	24.9	56.33	29.9
6,400.0	0.17	32.95	6,399.3	16.8	25.0	56.02	30.1
6,500.0	0.28	359.54	6,499.3	17.2	25.1	55.53	30.4
6,600.0	0.25	349.57	6,599.3	17.7	25.0	54.78	30.6
6,700.0	0.34	348.51	6,699.3	18.2	24.9	53.90	30.8
6,800.0	0.62	329.90	6,799.3	18.9	24.6	52.41	31.0
6,900.0	0.84	311.77	6,899.3	19.9	23.8	50.09	31.0
7,000.0	0.91	302.84	6,999.3	20.8	22.6	47.32	30.7
7,100.0	1.03	301.28	7,099.3	21.7	21.1	44.22	30.3
7,200.0	1.08	305.49	7,199.3	22.7	19.6	40.77	30.0
7,300.0	1.22	304.28	7,299.2	23.9	17.9	36.93	29.8
7,400.0	1.50	310.57	7,399.2	25.3	16.1	32.40	30.0
7,500.0	1.82	313.15	7,499.2	27.2	13.9	27.04	30.6
7,600.0	2.05	314.12	7,599.1	29.6	11.5	21.19	31.7
7,700.0	1.96	316.10	7,699.1	32.1	9.0	15.68	33.3
7,800.0	1.62	313.87	7,799.0	34.3	6.8	11.21	34.9
7,900.0	1.46	312.25	7,899.0	36.1	4.8	7.62	36.4
8,000.0	1.20	315.84	7,998.9	37.7	3.2	4.78	37.8
8,100.0	1.28	323.97	8,098.9	39.4	1.8	2.57	39.4
8,160.0	1.21	313.19	8,158.9	40.3	0.9	1.30	40.4



Project: Hackberry
Eddy County, NM
Well: Strawberry 7 Federal #6H
Wellbore: VH - Job #32K1110866
Design: VH - Job #32K1110866

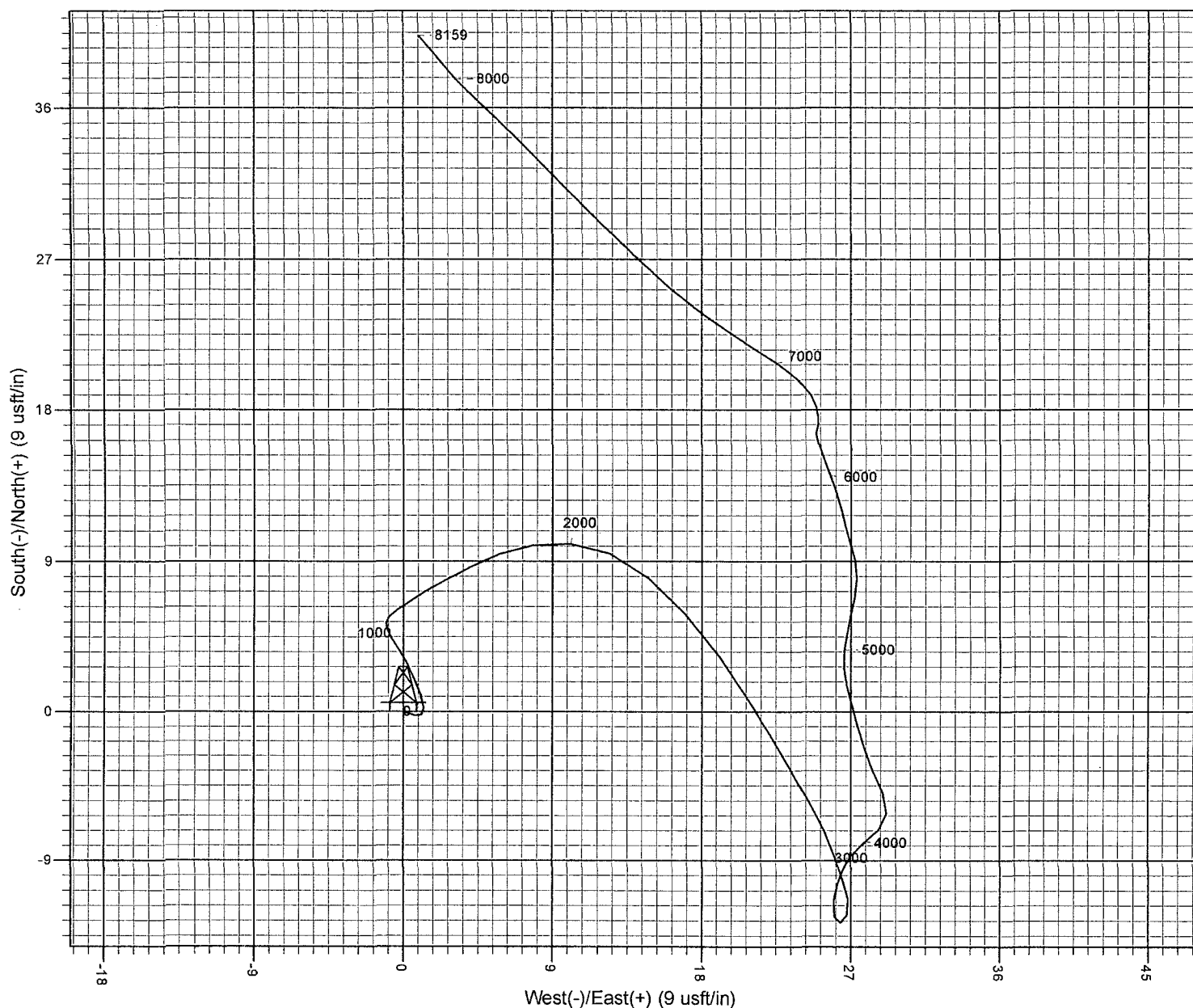


Azimuths to Grid North
True North: -1.27°
Magnetic North: 6.64°

Magnetic Field
Strength: 48973.3snT
Dip Angle: 60.57°
Date: 11/6/2010
Model: BGGM2010

WELL DETAILS: Strawberry 7 Federal #6H
WELL @ 0.0usft (Original Well Elev)
Ground Level: 0.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	616259.98	1222835.48	32° 40' 19.990 N	103° 54' 4.280 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