

RCVD NOV 17 '10
OIL CONS. DIV.
DIST. 3

ENERVEST OPERATING

Bear Canyon
Rio Arriba County, NM
Bear Canyon #6

Survey: 07/25/10

SDI Standard Survey Report

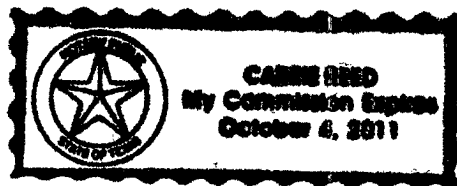
This survey is correct to the best of my knowledge and is supported by actual field data.

Richard

Notorized this date 1st of November, 2010.

Carrin Reed

Notary Signature
County of Midland
State of Texas



Scientific Drilling International, Inc.
SDI Standard Survey Report

Company:	ENERVEST OPERATING	Local Co-ordinate Reference:	Well Bear Canyon #6
Project:	Bear Canyon	TVD Reference:	SITE @ 0.0usft (Original Site Elev)
Site:	Rio Arriba County, NM	MD Reference:	SITE @ 0.0usft (Original Site Elev)
Well:	Bear Canyon #6	North Reference:	Grid
Wellbore:	VH - Job #33K0710112	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #33K0710112	Database:	EDM-Regulatory

Project	Bear Canyon		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico West 3003		

Site	Rio Arriba County, NM				
Site Position:		Northing:	1,999,046.61 usft	Latitude:	36° 29' 28.410 N
From:	Lat/Long	Easting:	737,237.99 usft	Longitude:	107° 1' 34.571 W
Position Uncertainty:	0.0 usft	Slot Radius:	0"	Grid Convergence:	0.48 °

Well	Bear Canyon #6, Directional					
Well Position	+N/-S	0.0 usft	Northing:	1,999,046.61 usft	Latitude:	36° 29' 28.410 N
	+E/-W	0.0 usft	Easting:	737,237.99 usft	Longitude:	107° 1' 34.571 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	0.0 usft

Wellbore	VH - Job #33K0710112				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	igrf2000	12/31/2004	10.59	63.61	51,538

Design	VH - Job #33K0710112			
Audit Notes:				
Version:	0	Phase:	ACTUAL	Tie On Depth:
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	124.65

Survey Program	Date 11/9/2010				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	7,340.0	07/25/10 (VH - Job #33K0710112)	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	0.38	19.86	100.0	0.3	0.1	19.86	0.3	
200.0	0.08	62.11	200.0	0.7	0.3	23.62	0.7	
300.0	0.18	44.22	300.0	0.8	0.5	29.75	0.9	
400.0	0.24	32.02	400.0	1.1	0.7	31.87	1.3	
500.0	0.44	37.53	500.0	1.6	1.0	33.04	1.9	
600.0	0.77	24.67	600.0	2.5	1.5	31.72	2.9	
700.0	1.05	22.27	700.0	3.9	2.2	28.75	4.5	
800.0	1.41	25.70	800.0	5.9	3.0	27.30	6.6	
900.0	1.62	25.54	899.9	8.3	4.2	26.82	9.3	
1,000.0	1.49	31.55	999.9	10.7	5.5	27.18	12.0	
1,100.0	1.59	26.47	1,099.8	13.0	6.8	27.50	14.7	

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Site:	Rio Arriba County, NM	MD Reference:	SITE @ 0.0usft (Original Site Elev)
Well:	Bear Canyon #6	North Reference:	Grid
Wellbore:	VH - Job #33K0710112	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #33K0710112	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	1.50	19.08	1,199.8	15.5	7.8	26.78	17.4	
1,300.0	1.19	23.46	1,299.8	17.7	8.7	26.10	19.7	
1,400.0	1.36	14.24	1,399.8	19.8	9.4	25.34	21.9	
1,500.0	0.99	35.32	1,499.7	21.6	10.2	25.15	23.9	
1,600.0	1.36	24.02	1,599.7	23.4	11.1	25.43	26.0	
1,700.0	2.02	25.80	1,699.7	26.1	12.4	25.40	28.9	
1,800.0	2.07	28.01	1,799.6	29.3	14.0	25.56	32.5	
1,900.0	1.94	23.30	1,899.5	32.4	15.5	25.58	36.0	
2,000.0	1.24	32.02	1,999.5	34.9	16.8	25.66	38.7	
2,100.0	1.40	18.29	2,099.5	37.0	17.7	25.61	41.0	
2,200.0	1.25	14.70	2,199.5	39.2	18.4	25.13	43.3	
2,300.0	0.81	8.16	2,299.4	41.0	18.8	24.62	45.1	
2,400.0	0.77	0.05	2,399.4	42.3	18.9	24.02	46.3	
2,500.0	0.88	5.38	2,499.4	43.8	18.9	23.40	47.7	
2,600.0	0.76	6.06	2,599.4	45.2	19.1	22.89	49.1	
2,700.0	0.96	346.43	2,699.4	46.7	19.0	22.11	50.4	
2,800.0	0.74	339.48	2,799.4	48.1	18.5	21.08	51.5	
2,900.0	0.68	338.03	2,899.4	49.2	18.1	20.17	52.5	
3,000.0	0.66	327.97	2,999.4	50.3	17.6	19.25	53.3	
3,100.0	0.57	317.80	3,099.4	51.1	16.9	18.31	53.9	
3,200.0	0.47	321.44	3,199.4	51.8	16.3	17.49	54.3	
3,300.0	0.92	331.91	3,299.4	52.9	15.7	16.54	55.1	
3,400.0	0.58	325.04	3,399.3	54.0	15.0	15.56	56.0	
3,500.0	0.39	337.26	3,499.3	54.7	14.6	14.95	56.6	
3,600.0	0.65	297.58	3,599.3	55.3	14.0	14.18	57.0	
3,700.0	0.48	293.18	3,699.3	55.7	13.1	13.21	57.2	
3,800.0	0.45	291.91	3,799.3	56.0	12.3	12.41	57.4	
3,900.0	0.30	177.79	3,899.3	55.9	12.0	12.09	57.2	
4,000.0	0.43	290.62	3,999.3	55.8	11.6	11.78	57.0	
4,100.0	0.56	157.33	4,099.3	55.5	11.5	11.69	56.6	
4,200.0	1.25	166.90	4,199.3	53.9	11.9	12.45	55.2	
4,300.0	1.47	169.52	4,299.3	51.6	12.4	13.50	53.1	
4,400.0	1.19	166.28	4,399.3	49.3	12.9	14.62	51.0	
4,500.0	0.88	162.23	4,499.2	47.6	13.3	15.66	49.4	
4,600.0	0.66	167.42	4,599.2	46.3	13.7	16.49	48.3	
4,700.0	0.72	176.90	4,699.2	45.1	13.9	17.08	47.2	
4,800.0	0.60	216.75	4,799.2	44.1	13.6	17.14	46.1	
4,900.0	0.84	186.63	4,899.2	42.9	13.2	17.08	44.9	
5,000.0	0.81	185.00	4,999.2	41.5	13.0	17.45	43.5	
5,100.0	0.92	189.69	5,099.2	40.0	12.8	17.81	42.0	
5,200.0	1.14	200.19	5,199.2	38.3	12.4	17.91	40.2	
5,300.0	1.30	203.87	5,299.2	36.3	11.6	17.67	38.1	
5,400.0	1.28	209.04	5,399.1	34.3	10.6	17.13	35.9	
5,500.0	1.46	208.65	5,499.1	32.2	9.4	16.30	33.5	

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Project:	Bear Canyon	TVD Reference:	SITE @ 0.0usft (Original Site Elev)
Site:	Rio Arriba County, NM	MD Reference:	SITE @ 0.0usft (Original Site Elev)
Well:	Bear Canyon #6	North Reference:	Grid
Wellbore:	VH - Job #33K0710112	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #33K0710112	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	2.04	210.15	5,599.0	29.5	7.9	14.99	30.6	
5,700.0	2.89	207.07	5,699.0	25.8	5.9	12.83	26.4	
5,800.0	3.53	207.26	5,798.8	20.8	3.3	9.05	21.0	
5,900.0	3.00	206.39	5,898.6	15.7	0.7	2.69	15.7	
6,000.0	2.68	203.96	5,998.5	11.2	-1.4	353.01	11.3	
6,100.0	2.83	202.12	6,098.4	6.8	-3.3	334.39	7.5	
6,200.0	2.29	194.84	6,198.3	2.6	-4.7	298.71	5.4	
6,300.0	0.96	196.27	6,298.3	-0.2	-5.4	268.28	5.4	
6,400.0	2.78	188.44	6,398.2	-3.4	-6.0	240.84	6.9	
6,500.0	3.52	184.18	6,498.0	-8.8	-6.6	216.84	11.0	
6,600.0	4.01	187.39	6,597.8	-15.4	-7.3	205.38	17.0	
6,700.0	4.19	198.23	6,697.6	-22.3	-8.9	201.72	24.0	
6,800.0	5.16	190.91	6,797.2	-30.2	-10.9	199.81	32.1	
6,900.0	13.09	169.88	6,895.9	-45.8	-9.7	192.00	46.8	
7,000.0	20.69	158.62	6,991.6	-73.4	-1.3	181.00	73.4	
7,100.0	27.83	139.47	7,082.8	-107.7	20.4	169.28	109.6	
7,200.0	35.55	128.50	7,167.9	-143.6	58.4	157.88	155.0	
7,230.0	37.49	126.97	7,192.0	-154.5	72.5	154.86	170.7	
7,235.0	37.85	126.85	7,196.0	-156.4	75.0	154.39	173.4	
7,240.0	38.51	126.72	7,199.9	-158.2	77.4	153.93	176.2	
7,245.0	39.21	126.66	7,203.8	-160.1	79.9	153.47	179.0	
7,250.0	39.73	126.54	7,207.7	-162.0	82.5	153.01	181.8	
7,255.0	39.97	126.49	7,211.5	-163.9	85.1	152.57	184.7	
7,260.0	40.58	126.60	7,215.3	-165.8	87.7	152.14	187.6	
7,265.0	41.07	126.58	7,219.1	-167.8	90.3	151.71	190.5	
7,270.0	41.75	126.62	7,222.8	-169.8	92.9	151.30	193.5	
7,275.0	42.77	126.81	7,226.5	-171.8	95.6	150.89	196.6	
7,280.0	43.43	127.39	7,230.2	-173.8	98.4	150.49	199.7	
7,285.0	43.26	128.14	7,233.8	-175.9	101.1	150.12	202.9	
7,290.0	42.91	128.99	7,237.5	-178.1	103.8	149.77	206.1	
7,295.0	43.28	129.38	7,241.1	-180.2	106.4	149.44	209.3	
7,300.0	43.89	129.25	7,244.8	-182.4	109.1	149.12	212.5	
7,305.0	44.33	129.06	7,248.3	-184.6	111.8	148.81	215.8	
7,310.0	45.33	128.72	7,251.9	-186.8	114.5	148.49	219.1	
7,315.0	46.26	128.55	7,255.4	-189.0	117.3	148.18	222.5	
7,320.0	46.76	128.42	7,258.8	-191.3	120.1	147.87	225.9	
7,325.0	47.22	128.32	7,262.2	-193.6	123.0	147.56	229.4	
7,330.0	47.98	128.19	7,265.6	-195.9	125.9	147.26	232.8	
7,335.0	48.80	128.20	7,268.9	-198.2	128.9	146.97	236.4	
7,340.0	49.08	128.21	7,272.2	-200.5	131.8	146.68	240.0	

Checked By: _____ Approved By: _____ Date: _____

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SDI Standard Survey Report

Company:	ENERVEST OPERATING	Local Co-ordinate Reference:	Well Bear Canyon #6
Project:	Bear Canyon	TVD Reference:	SITE @ 0.0usft (Original Site Elev)
Site:	Rio Arriba County, NM	MD Reference:	SITE @ 0.0usft (Original Site Elev)
Well:	Bear Canyon #6	North Reference:	Grid
Wellbore:	DH - Job #33D0710100	Survey Calculation Method:	Minimum Curvature
Design:	DH - Job #33D0710100	Database:	EDM-Regulatory

Project	Bear Canyon		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico West 3003		

Site	Rio Arriba County, NM		
Site Position:		Northing:	1,999,046.61 usft
From:	Lat/Long	Easting:	737,237.99 usft
Position Uncertainty:	0.0 usft	Slot Radius:	0"
		Latitude:	36° 29' 28.410 N
		Longitude:	107° 1' 34.571 W
		Grid Convergence:	0.48 °

Well	Bear Canyon #6, Directional		
Well Position	+N/-S	0.0 usft	Northing: 1,999,046.61 usft
	+E/-W	0.0 usft	Easting: 737,237.99 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	36° 29' 28.410 N
		Longitude:	107° 1' 34.571 W
		Ground Level:	0.0 usft

Wellbore	DH - Job #33D0710100				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2010	7/24/2010	9.66	63.44	50,832

Design	DH - Job #33D0710100			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 4,000.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	124.24

Survey Program	Date 11/9/2010				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	4,000.0	07/25/10 & 08/15/10 (VH - Job #33K07101	Keeper	Keeper Gyro	
4,058.0	7,526.0	Actual (DH - Job #33D0710100)	MWD	MWD	

Survey							
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
4,000.0	0.43	290.62	3,999.3	55.8	11.6	11.78	57.0
4,058.0	0.88	182.64	4,057.3	55.4	11.4	11.64	56.6
4,153.0	1.24	167.95	4,152.3	53.7	11.6	12.19	54.9
4,281.0	1.67	171.38	4,280.3	50.5	12.2	13.55	51.9
4,408.0	1.17	167.79	4,407.2	47.4	12.7	15.02	49.1
4,535.0	0.92	173.53	4,534.2	45.1	13.1	16.20	47.0
4,662.0	0.96	184.31	4,661.2	43.0	13.1	16.98	45.0
4,789.0	1.06	188.89	4,788.2	40.8	12.9	17.51	42.8
4,917.0	1.04	185.68	4,916.1	38.5	12.6	18.10	40.5
5,043.0	0.99	189.55	5,042.1	36.3	12.3	18.71	38.3
5,168.0	1.22	199.66	5,167.1	33.9	11.7	18.95	35.9

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Site:	Rio Arriba County, NM	MD Reference:	SITE @ 0.0usft (Original Site Elev)
Well:	Bear Canyon #6	North Reference:	Grid
Wellbore:	DH - Job #33D0710100	Survey Calculation Method:	Minimum Curvature
Design:	DH - Job #33D0710100	Database:	EDM-Regulatory

Survey							
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
5,294.0	1.34	201.67	5,293.1	31.3	10.7	18.80	33.1
5,418.0	1.69	198.73	5,417.0	28.2	9.5	18.67	29.8
5,544.0	2.08	208.28	5,543.0	24.5	7.9	17.81	25.7
5,670.0	2.89	202.17	5,668.8	19.5	5.6	15.96	20.3
5,795.0	3.82	209.29	5,793.6	13.0	2.4	10.29	13.2
5,920.0	3.13	207.11	5,918.4	6.3	-1.2	348.83	6.4
6,045.0	2.96	208.19	6,043.2	0.4	-4.3	275.32	4.3
6,170.0	2.69	202.40	6,168.1	-5.2	-7.0	233.49	8.7
6,296.0	2.33	198.21	6,293.9	-10.3	-8.9	220.74	13.6
6,421.0	2.59	191.58	6,418.8	-15.5	-10.3	213.48	18.6
6,547.0	3.73	181.49	6,544.6	-22.4	-10.9	206.02	24.9
6,672.0	3.67	211.51	6,669.4	-29.9	-13.1	203.73	32.6
6,734.0	3.84	187.48	6,731.3	-33.6	-14.4	203.24	36.6
6,765.0	4.38	198.73	6,762.2	-35.8	-14.9	202.68	38.8
6,796.0	4.71	192.20	6,793.1	-38.1	-15.6	202.25	41.2
6,827.0	6.93	181.75	6,823.9	-41.2	-15.9	201.11	44.2
6,859.0	9.86	172.76	6,855.6	-45.9	-15.6	198.82	48.5
6,889.0	13.01	170.77	6,885.0	-51.8	-14.8	195.92	53.8
6,915.0	15.11	167.54	6,910.2	-58.0	-13.6	193.18	59.5
6,947.0	17.87	165.62	6,940.9	-66.8	-11.5	189.73	67.8
6,978.0	19.90	162.10	6,970.2	-76.4	-8.6	186.46	76.9
7,010.0	21.33	156.43	7,000.2	-87.0	-4.6	183.06	87.1
7,041.0	23.39	149.63	7,028.8	-97.4	0.7	179.58	97.4
7,072.0	25.79	141.72	7,057.0	-108.0	8.0	175.76	108.3
7,104.0	28.29	138.86	7,085.5	-119.2	17.3	171.74	120.5
7,136.0	30.63	133.23	7,113.4	-130.5	28.2	167.79	133.5
7,167.0	32.42	130.24	7,139.8	-141.3	40.3	164.06	146.9
7,199.0	35.28	127.14	7,166.4	-152.4	54.3	160.40	161.8
7,230.0	38.33	124.84	7,191.2	-163.3	69.3	157.01	177.4
7,261.0	41.10	126.49	7,215.1	-174.9	85.4	153.98	194.6
7,292.0	44.34	127.25	7,237.8	-187.5	102.2	151.41	213.5
7,324.0	48.06	129.37	7,260.0	-201.8	120.3	149.20	235.0
7,355.0	51.93	129.82	7,279.9	-216.9	138.6	147.43	257.4
7,387.0	55.73	128.83	7,298.8	-233.3	158.6	145.80	282.1
7,418.0	59.24	128.15	7,315.5	-249.6	179.0	144.34	307.2
7,449.0	62.60	129.01	7,330.5	-266.5	200.2	143.08	333.3
7,481.0	66.25	126.79	7,344.3	-284.2	223.0	141.88	361.2
7,526.0	71.96	125.60	7,360.4	-309.0	256.9	140.26	401.8

Checked By: _____	Approved By: _____	Date: _____
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SDI Standard Survey Report

Company:	ENERVEST OPERATING	Local Co-ordinate Reference:	Well Bear Canyon #6
Project:	Bear Canyon	TVD Reference:	SITE @ 0.0usft (Original Site Elev)
Site:	Rio Arriba County, NM	MD Reference:	SITE @ 0.0usft (Original Site Elev)
Well:	Bear Canyon #6	North Reference:	Grid
Wellbore:	DH - Job #33D0710100 - Sidetrack	Survey Calculation Method:	Minimum Curvature
Design:	DH - Job #33D0710100 - Sidetrack	Database:	EDM-Regulatory

Project	Bear Canyon		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico West 3003		

Site	Rio Arriba County, NM		
Site Position:		Northing:	1,999,046.61 usft
From:	Lat/Long	Easting:	737,237.99 usft
Position Uncertainty:	0.0 usft	Slot Radius:	0"
		Latitude:	36° 29' 28.410 N
		Longitude:	107° 1' 34.571 W
		Grid Convergence:	0.48 °

Well	Bear Canyon #6, Directional		
Well Position	+N/-S	0.0 usft	Northing: 1,999,046.61 usft
	+E/-W	0.0 usft	Easting: 737,237.99 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	36° 29' 28.410 N
		Longitude:	107° 1' 34.571 W
		Ground Level:	0.0 usft

Wellbore	DH - Job #33D0710100 - Sidetrack				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2010	7/24/2010	9.66	63.44	50,832

Design	DH - Job #33D0710100 - Sidetrack			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 7,292.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	124.65

Survey Program	Date	11/9/2010			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	4,000.0	07/25/10 & 08/15/10 (VH - Job #33K07101	Keeper	Keeper Gyro	
4,058.0	7,292.0	Actual (DH - Job #33D0710100)	MWD	MWD	
7,433.0	10,050.0	Actual (DH - Job #33D0710100 - Sidetrack	MWD	MWD	

Survey							
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
7,292.0	44.34	127.25	7,237.8	-187.5	102.2	151.41	213.5
7,433.0	49.65	124.55	7,334.0	-247.8	185.7	143.15	309.7
7,465.0	51.25	120.20	7,354.4	-261.0	206.6	141.64	332.9
7,497.0	54.12	118.35	7,373.8	-273.5	228.8	140.08	356.5
7,529.0	59.53	117.32	7,391.3	-286.0	252.5	138.56	381.5
7,561.0	65.41	117.39	7,406.0	-299.0	277.6	137.12	408.0
7,592.0	70.92	118.37	7,417.6	-312.5	303.1	135.87	435.3
7,626.0	75.84	117.29	7,427.3	-327.7	331.9	134.63	466.4
7,660.0	79.81	118.28	7,434.5	-343.1	361.3	133.53	498.3
7,692.0	83.81	117.89	7,439.0	-358.1	389.2	132.61	528.9

Scientific Drilling International, Inc.
SDI Standard Survey Report

Company:	ENERVEST OPERATING	Local Co-ordinate Reference:	Well Bear Canyon #6
Project:	Bear Canyon	TVD Reference:	SITE @ 0.0usft (Original Site Elev)
Site:	Rio Arriba County, NM	MD Reference:	SITE @ 0.0usft (Original Site Elev)
Well:	Bear Canyon #6	North Reference:	Grid
Wellbore:	DH - Job #33D0710100 - Sidetrack	Survey Calculation Method:	Minimum Curvature
Design:	DH - Job #33D0710100 - Sidetrack	Database:	EDM-Regulatory

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
7,724.0	88.14	117.16	7,441.3	-372.8	417.5	131.76	559.7
7,756.0	91.45	117.40	7,441.4	-387.5	445.9	130.99	590.8
7,788.0	91.48	118.82	7,440.6	-402.5	474.2	130.33	622.0
7,820.0	93.22	120.34	7,439.3	-418.3	502.0	129.81	653.4
7,851.0	93.09	119.90	7,437.5	-433.8	528.7	129.37	684.0
7,883.0	92.57	122.02	7,436.0	-450.3	556.1	129.00	715.6
7,915.0	91.37	121.62	7,434.9	-467.2	583.3	128.69	747.3
7,946.0	90.97	120.34	7,434.2	-483.1	609.9	128.38	778.0
7,978.0	90.87	120.85	7,433.7	-499.4	637.4	128.08	809.8
8,010.0	90.97	120.36	7,433.2	-515.7	665.0	127.79	841.5
8,042.0	90.40	119.43	7,432.8	-531.6	692.7	127.50	873.2
8,075.0	90.67	121.17	7,432.5	-548.3	721.2	127.24	905.9
8,106.0	90.30	122.15	7,432.3	-564.5	747.6	127.06	936.8
8,137.0	91.71	121.71	7,431.7	-580.9	773.9	126.89	967.7
8,169.0	93.96	122.79	7,430.1	-598.0	800.9	126.75	999.5
8,201.0	93.56	124.29	7,428.0	-615.6	827.5	126.65	1,031.4
8,233.0	93.56	124.61	7,426.0	-633.7	853.9	126.58	1,063.3
8,266.0	93.29	122.92	7,424.1	-652.0	881.3	126.50	1,096.2
8,298.0	92.76	123.07	7,422.4	-669.4	908.1	126.40	1,128.1
8,330.0	93.97	124.43	7,420.5	-687.2	934.6	126.32	1,160.0
8,362.0	93.88	124.78	7,418.3	-705.3	960.9	126.28	1,192.0
8,394.0	95.26	124.39	7,415.8	-723.4	987.2	126.23	1,223.8
8,425.0	95.17	124.69	7,412.9	-740.9	1,012.6	126.19	1,254.7
8,458.0	95.62	123.96	7,409.8	-759.4	1,039.7	126.14	1,287.5
8,488.0	95.99	123.87	7,406.8	-776.1	1,064.5	126.09	1,317.4
8,520.0	96.42	122.46	7,403.3	-793.5	1,091.1	126.03	1,349.1
8,552.0	96.65	123.09	7,399.7	-810.7	1,117.8	125.95	1,380.9
8,583.0	96.97	123.34	7,396.0	-827.6	1,143.6	125.89	1,411.6
8,615.0	97.02	123.58	7,392.1	-845.1	1,170.1	125.84	1,443.3
8,646.0	95.23	126.00	7,388.8	-862.6	1,195.4	125.82	1,474.2
8,678.0	93.93	126.21	7,386.3	-881.4	1,221.2	125.82	1,506.1
8,710.0	94.61	124.27	7,383.9	-899.9	1,247.2	125.81	1,538.0
8,741.0	93.97	124.36	7,381.6	-917.3	1,272.8	125.78	1,568.9
8,772.0	94.11	123.17	7,379.4	-934.5	1,298.5	125.74	1,599.8
8,803.0	93.70	124.04	7,377.3	-951.6	1,324.2	125.70	1,630.7
8,835.0	93.57	124.52	7,375.2	-969.6	1,350.6	125.67	1,662.6
8,866.0	93.50	125.63	7,373.3	-987.4	1,375.9	125.66	1,693.5
8,898.0	93.13	126.88	7,371.5	-1,006.2	1,401.7	125.67	1,725.5
8,930.0	92.59	126.53	7,369.9	-1,025.3	1,427.3	125.69	1,757.4
8,962.0	92.79	125.53	7,368.4	-1,044.1	1,453.2	125.70	1,789.4
8,995.0	90.67	125.61	7,367.4	-1,063.3	1,480.0	125.70	1,822.4
9,027.0	90.17	125.90	7,367.2	-1,082.0	1,506.0	125.70	1,854.4
9,059.0	89.93	125.20	7,367.1	-1,100.6	1,532.0	125.69	1,886.4
9,091.0	89.97	124.66	7,367.2	-1,119.0	1,558.2	125.68	1,918.4
9,122.0	89.83	124.18	7,367.2	-1,136.5	1,583.8	125.66	1,949.4

Scientific Drilling International, Inc.
SDI Standard Survey Report

Company:	ENERVEST OPERATING	Local Co-ordinate Reference:	Well Bear Canyon #6
Project:	Bear Canyon	TVD Reference:	SITE @ 0.0usft (Original Site Elev)
Site:	Rio Arriba County, NM	MD Reference:	SITE @ 0.0usft (Original Site Elev)
Well:	Bear Canyon #6	North Reference:	Grid
Wellbore:	DH - Job #33D0710100 - Sidetrack	Survey Calculation Method:	Minimum Curvature
Design:	DH - Job #33D0710100 - Sidetrack	Database:	EDM-Regulatory

Survey							
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
9,154.0	89.63	123.74	7,367.4	-1,154.4	1,610.4	125.63	1,981.4
9,186.0	89.16	123.66	7,367.7	-1,172.1	1,637.0	125.60	2,013.3
9,218.0	89.13	122.92	7,368.2	-1,189.7	1,663.7	125.57	2,045.3
9,250.0	88.69	123.87	7,368.8	-1,207.3	1,690.4	125.53	2,077.3
9,282.0	88.39	123.87	7,369.6	-1,225.1	1,717.0	125.51	2,109.3
9,314.0	89.66	123.71	7,370.1	-1,242.9	1,743.6	125.48	2,141.2
9,346.0	89.16	124.53	7,370.5	-1,260.9	1,770.1	125.46	2,173.2
9,378.0	87.95	124.23	7,371.3	-1,278.9	1,796.5	125.45	2,205.2
9,409.0	89.73	126.13	7,371.9	-1,296.8	1,821.8	125.44	2,236.2
9,441.0	90.00	125.12	7,372.0	-1,315.4	1,847.8	125.45	2,268.2
9,475.0	89.60	126.34	7,372.1	-1,335.3	1,875.4	125.45	2,302.2
9,507.0	89.83	124.97	7,372.3	-1,353.9	1,901.4	125.45	2,334.2
9,539.0	89.90	123.59	7,372.3	-1,371.9	1,927.9	125.44	2,366.2
9,571.0	90.34	122.53	7,372.3	-1,389.4	1,954.7	125.41	2,398.2
9,602.0	89.73	120.64	7,372.2	-1,405.6	1,981.1	125.36	2,429.1
9,634.0	90.00	120.48	7,372.3	-1,421.9	2,008.6	125.29	2,461.0
9,666.0	89.77	119.09	7,372.4	-1,437.8	2,036.4	125.22	2,492.8
9,700.0	90.10	120.00	7,372.4	-1,454.6	2,066.0	125.15	2,526.7
9,732.0	90.10	119.79	7,372.4	-1,470.5	2,093.7	125.08	2,558.5
9,764.0	91.99	118.79	7,371.8	-1,486.2	2,121.6	125.01	2,590.4
9,796.0	94.66	118.86	7,369.9	-1,501.6	2,149.6	124.94	2,622.1
9,827.0	94.53	119.75	7,367.4	-1,516.7	2,176.6	124.87	2,652.9
9,859.0	94.56	119.45	7,364.9	-1,532.4	2,204.3	124.81	2,684.7
9,891.0	93.98	119.25	7,362.5	-1,548.1	2,232.1	124.74	2,716.4
9,923.0	94.15	119.27	7,360.3	-1,563.7	2,260.0	124.68	2,748.2
9,955.0	94.23	117.88	7,357.9	-1,579.0	2,288.0	124.61	2,779.9
9,987.0	93.86	118.14	7,355.7	-1,593.9	2,316.2	124.54	2,811.6
10,019.0	94.07	117.10	7,353.5	-1,608.7	2,344.5	124.46	2,843.3
10,050.0	93.75	118.17	7,351.3	-1,623.1	2,371.9	124.38	2,874.0

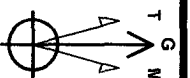
Checked By: _____	Approved By: _____	Date: _____
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Scientific Drilling

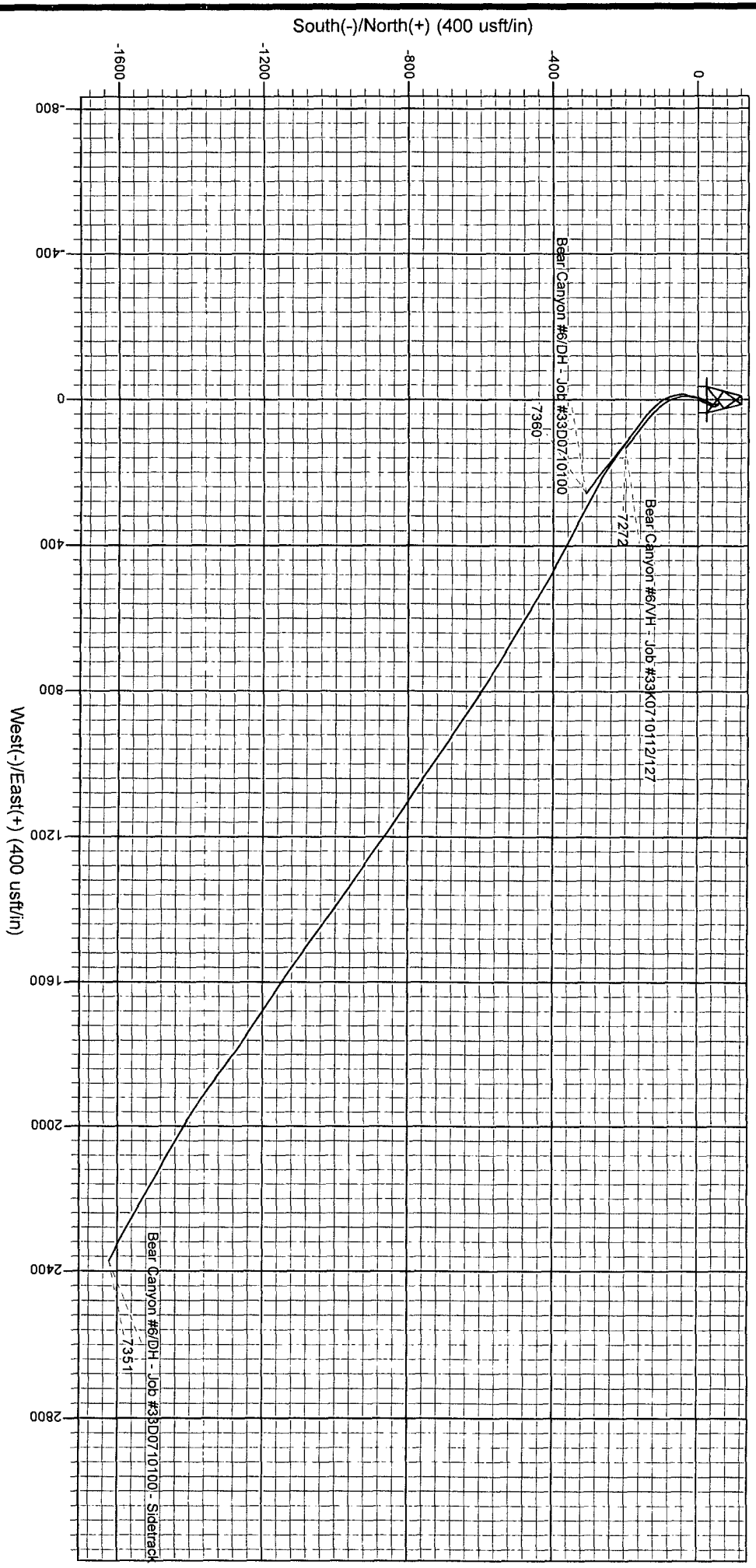
Directional Drilling Operations

Project: Bear Canyon
Rio Arriba County, NM
Well: Bear Canyon #6
Wellbore: DH - Job #33D0710100 - Sidetrack
Design: DH - Job #33D0710100 - Sidetrack



Azinuths to Grid North
True North: -0.48°
Magnetic North: 9.18°
Magnetic Field
Strength: 50832.25nT
Dip Angle: 63.44°
Date: 7/24/2010
Model: BGM2010

WELL DETAILS: Bear Canyon #6
SITE @ 0.0ust (Original Site Elev)
Ground Level: 0.0
+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.0 0.0 1999046.61 737237.99 36° 29' 28.410 N 107° 1' 34.571 W



PROJECT DETAILS: Bear Canyon
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico West 3003
System Datum: Mean Sea Level

SITE DETAILS: Rio Arriba County, NM
Site Centre Latitude: 36° 29' 28.410 N
Longitude: 107° 1' 34.571 W
Positional Uncertainty: 0.0
Convergence: 0.48
Local North: Grid