



30-039-30557
Scientific Drilling
Directional Drilling Operations

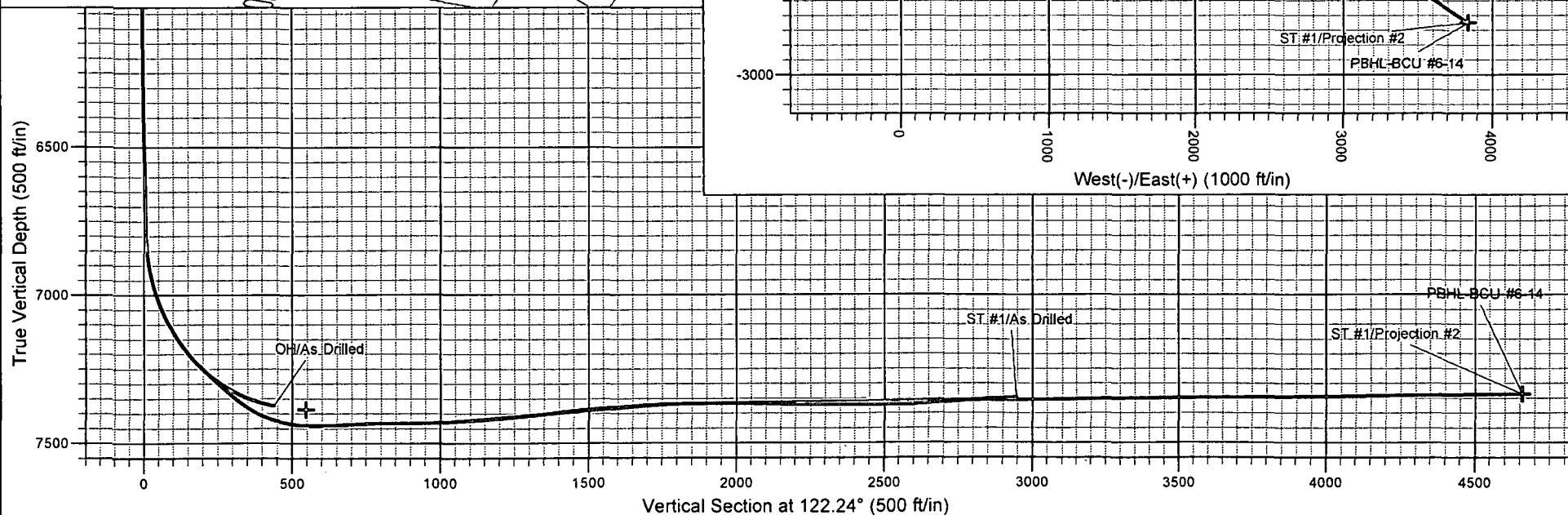
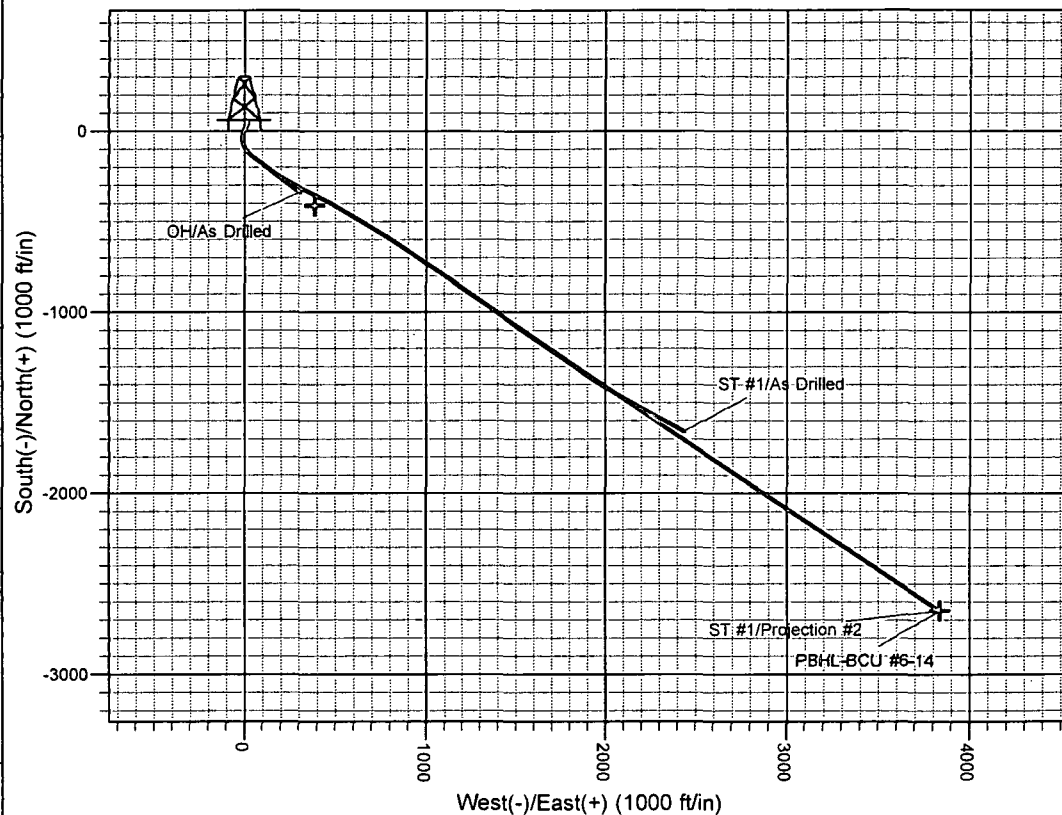
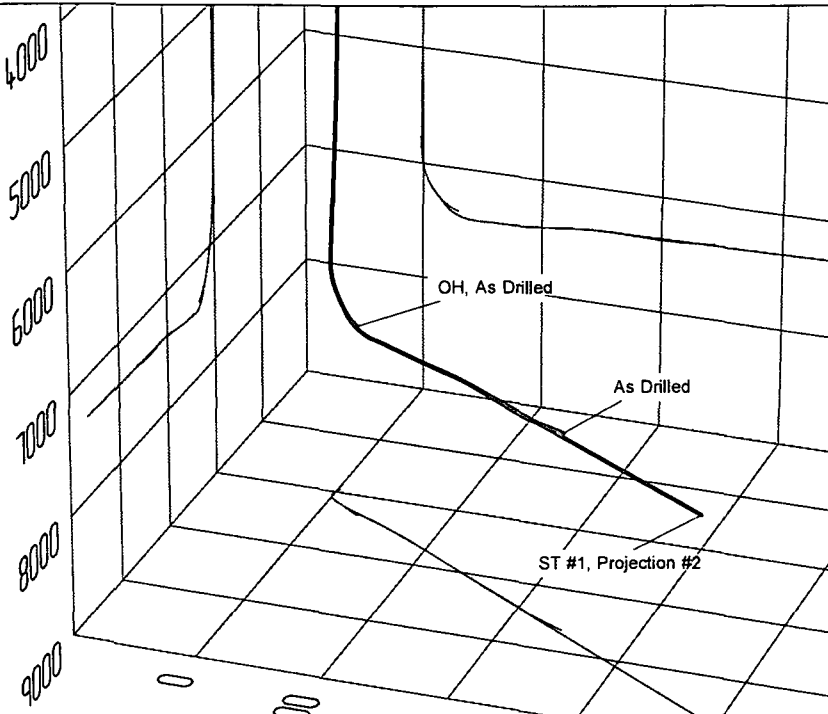
Project: Rio Arriba County, NM (NAD83 NME)
Site: Bear Canyon Unit #6-14
Well: Bear Canyon Unit #6-14
Wellbore: ST #1
Design: As Drilled

6

RECEIVED SEP 24 '13
OIL CONS. DIV.
ENERVEST DIST. 3

WELL DETAILS: Bear Canyon Unit #6-14

+N/-S	+E/-W	Northing	Ground Level:	Easting	Latitude	Longitude	Slot
0.0	0.0	1998997.58	7384.0	1412239.99	36° 29' 28.409 N	107° 1' 34.571 W	



Company:	Enervest Operating, LLC	Local Co-ordinate Reference:	Well Bear Canyon Unit #6-14
Project:	Rio Arriba County, NM (NAD83 NME)	TVD Reference:	KB Elev. @ 7400.0ft (12 ft KB)
Site:	Bear Canyon Unit #6-14	MD Reference:	KB Elev. @ 7400.0ft (12 ft KB)
Well:	Bear Canyon Unit #6-14	North Reference:	Grid
Wellbore:	ST #1	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	EDM 5000.1 Single User Db

Project	Rio Arriba County, NM (NAD83 NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Central Zone		Using geodetic scale factor

Site	Bear Canyon Unit #6-14				
Site Position:		Northing:	1,998,997.59 usft	Latitude:	36° 29' 28.409 N
From:	Lat/Long	Easting:	1,412,239.99 usft	Longitude:	107° 1' 34.571 W
Position Uncertainty:	0.0 ft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.46 °

Well	Bear Canyon Unit #6-14					
Well Position	+N/-S	0.0 ft	Northing:	1,998,997.59 usft	Latitude:	36° 29' 28.409 N
	+E/-W	0.0 ft	Easting:	1,412,239.99 usft	Longitude:	107° 1' 34.571 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	7,400.0 ft	Ground Level:	7,384.0 ft

Wellbore	ST #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	7/6/2010	9.65	63.43	50,808

Design	As Drilled				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	7,292.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	122.24	

Survey Program	Date 9/2/2010				
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
100.0	4,000.0	SDI Gyro (OH)	Standard Keeper 103	Standard Wireline Keeper ver 1.0.3	
4,058.0	7,292.0	SDI MWD (OH)	SDI MWD	SDI MWD - Standard ver 1.0.1	
7,292.0	10,125.0	SDI MWD (ST #1)	SDI MWD	SDI MWD - Standard ver 1.0.1	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
100.0	0.38	19.86	100.0	0.3	0.1	-0.1	0.38	0.38	0.00	
200.0	0.08	62.11	200.0	0.7	0.3	-0.1	0.33	-0.30	42.25	
300.0	0.18	44.22	300.0	0.8	0.5	0.0	0.11	0.10	-17.89	
400.0	0.24	32.02	400.0	1.1	0.7	0.0	0.07	0.06	-12.20	
500.0	0.44	37.53	500.0	1.6	1.0	0.0	0.20	0.20	5.51	
600.0	0.77	24.67	600.0	2.5	1.5	0.0	0.35	0.33	-12.86	
700.0	1.05	22.27	700.0	3.9	2.2	-0.3	0.28	0.28	-2.40	
800.0	1.41	25.70	800.0	5.9	3.0	-0.6	0.37	0.36	3.43	

Company:	Enervest Operating, LLC	Local Co-ordinate Reference:	Well Bear Canyon Unit #6-14
Project:	Rio Arriba County, NM (NAD83 NME)	TVD Reference:	KB Elev. @ 7400.0ft (12 ft KB)
Site:	Bear Canyon Unit #6-14	MD Reference:	KB Elev. @ 7400.0ft (12 ft KB)
Well:	Bear Canyon Unit #6-14	North Reference:	Grid
Wellbore:	ST #1	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	EDM 5000.1 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
900.0	1.62	25.54	899.9	8.3	4.2	-0.9	0.21	0.21	-0.16
1,000.0	1.49	31.55	999.9	10.7	5.5	-1.1	0.21	-0.13	6.01
1,100.0	1.59	26.47	1,099.8	13.0	6.8	-1.2	0.17	0.10	-5.08
1,200.0	1.50	19.08	1,199.8	15.5	7.8	-1.7	0.22	-0.09	-7.39
1,300.0	1.19	23.46	1,299.8	17.7	8.7	-2.1	0.33	-0.31	4.38
1,400.0	1.36	14.24	1,399.8	19.8	9.4	-2.6	0.27	0.17	-9.22
1,500.0	0.99	35.32	1,499.7	21.6	10.2	-3.0	0.56	-0.37	21.08
1,600.0	1.36	24.02	1,599.7	23.4	11.1	-3.1	0.43	0.37	-11.30
1,700.0	2.02	25.80	1,699.7	26.1	12.4	-3.4	0.66	0.66	1.78
1,800.0	2.07	28.01	1,799.6	29.3	14.0	-3.8	0.09	0.05	2.21
1,900.0	1.94	23.30	1,899.5	32.4	15.5	-4.2	0.21	-0.13	-4.71
2,000.0	1.24	32.02	1,999.5	34.9	16.8	-4.4	0.74	-0.70	8.72
2,100.0	1.40	18.29	2,099.5	37.0	17.7	-4.7	0.35	0.16	-13.73
2,200.0	1.25	14.70	2,199.5	39.2	18.4	-5.4	0.17	-0.15	-3.59
2,300.0	0.81	8.16	2,299.4	41.0	18.8	-6.0	0.45	-0.44	-6.54
2,400.0	0.77	0.05	2,399.4	42.3	18.9	-6.6	0.12	-0.04	-8.11
2,500.0	0.88	5.38	2,499.4	43.8	18.9	-7.3	0.13	0.11	5.33
2,600.0	0.76	6.06	2,599.4	45.2	19.1	-8.0	0.12	-0.12	0.68
2,700.0	0.96	346.43	2,699.4	46.7	19.0	-8.9	0.35	0.20	-19.63
2,800.0	0.74	339.48	2,799.4	48.1	18.5	-10.0	0.24	-0.22	-6.95
2,900.0	0.68	338.03	2,899.4	49.2	18.1	-11.0	0.06	-0.06	-1.45
3,000.0	0.66	327.97	2,999.4	50.3	17.6	-12.0	0.12	-0.02	-10.06
3,100.0	0.57	317.80	3,099.4	51.1	16.9	-13.0	0.14	-0.09	-10.17
3,200.0	0.47	321.44	3,199.4	51.8	16.3	-13.8	0.11	-0.10	3.64
3,300.0	0.92	331.91	3,299.4	52.9	15.7	-14.9	0.47	0.45	10.47
3,400.0	0.58	325.04	3,399.3	54.0	15.0	-16.1	0.35	-0.34	-6.87
3,500.0	0.39	337.26	3,499.3	54.7	14.6	-16.8	0.22	-0.19	12.22
3,600.0	0.65	297.58	3,599.3	55.3	14.0	-17.7	0.43	0.26	-39.68
3,700.0	0.48	293.18	3,699.3	55.7	13.1	-18.7	0.18	-0.17	-4.40
3,800.0	0.45	291.91	3,799.3	56.0	12.3	-19.5	0.03	-0.03	-1.27
3,900.0	0.30	177.79	3,899.3	55.9	12.0	-19.7	0.63	-0.15	-114.12
4,000.0	0.43	290.62	3,999.3	55.8	11.6	-19.9	0.61	0.13	112.83
4,058.0	0.88	182.64	4,057.3	55.4	11.4	-19.9	1.88	0.78	-186.17
4,153.0	1.24	167.95	4,152.3	53.7	11.6	-18.8	0.47	0.38	-15.46
4,281.0	1.67	171.38	4,280.3	50.5	12.2	-16.6	0.34	0.34	2.68
4,408.0	1.17	167.79	4,407.2	47.4	12.7	-14.5	0.40	-0.39	-2.83
4,535.0	0.92	173.53	4,534.2	45.1	13.1	-13.0	0.21	-0.20	4.52
4,662.0	0.96	184.31	4,661.2	43.0	13.1	-11.8	0.14	0.03	8.49
4,789.0	1.06	188.89	4,788.2	40.8	12.9	-10.9	0.10	0.08	3.61
4,917.0	1.04	185.68	4,916.1	38.5	12.6	-9.9	0.05	-0.02	-2.51
5,043.0	0.99	189.55	5,042.1	36.3	12.3	-9.0	0.07	-0.04	3.07
5,168.0	1.22	199.66	5,167.1	33.9	11.7	-8.2	0.24	0.18	8.09
5,294.0	1.34	201.67	5,293.1	31.3	10.7	-7.7	0.10	0.10	1.60

Company:	Enervest Operating, LLC	Local Co-ordinate Reference:	Well Bear Canyon Unit #6-14
Project:	Rio Arriba County, NM (NAD83 NME)	TVD Reference:	KB Elev. @ 7400.0ft (12 ft KB)
Site:	Bear Canyon Unit #6-14	MD Reference:	KB Elev. @ 7400.0ft (12 ft KB)
Well:	Bear Canyon Unit #6-14	North Reference:	Grid
Wellbore:	ST #1	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	EDM 5000.1 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,418.0	1.69	198.73	5,417.0	28.2	9.5	-7.0	0.29	0.28	-2.37
5,544.0	2.08	208.28	5,543.0	24.5	7.9	-6.4	0.40	0.31	7.58
5,670.0	2.89	202.17	5,668.8	19.5	5.6	-5.7	0.68	0.64	-4.85
5,795.0	3.82	209.29	5,793.6	13.0	2.4	-4.9	0.81	0.74	5.70
5,920.0	3.13	207.11	5,918.4	6.3	-1.2	-4.4	0.56	-0.55	-1.74
6,045.0	2.96	208.19	6,043.2	0.4	-4.3	-3.9	0.14	-0.14	0.86
6,170.0	2.69	202.40	6,168.1	-5.2	-7.0	-3.1	0.31	-0.22	-4.63
6,296.0	2.33	198.21	6,293.9	-10.3	-8.9	-2.0	0.32	-0.29	-3.33
6,421.0	2.59	191.58	6,418.8	-15.5	-10.3	-0.4	0.31	0.21	-5.30
6,547.0	3.73	181.49	6,544.6	-22.4	-10.9	2.7	1.00	0.90	-8.01
6,672.0	3.67	211.51	6,669.4	-29.9	-13.1	4.8	1.53	-0.05	24.02
6,734.0	3.84	187.48	6,731.3	-33.6	-14.4	5.7	2.53	0.27	-38.76
6,765.0	4.38	198.73	6,762.2	-35.8	-14.9	6.4	3.12	1.74	36.29
6,796.0	4.71	192.20	6,793.1	-38.1	-15.6	7.1	1.98	1.06	-21.06
6,827.0	6.93	181.75	6,823.9	-41.2	-15.9	8.5	7.91	7.16	-33.71
6,859.0	9.86	172.76	6,855.6	-45.9	-15.6	11.3	10.01	9.16	-28.09
6,889.0	13.01	170.77	6,885.0	-51.8	-14.8	15.1	10.58	10.50	-6.63
6,915.0	15.11	167.54	6,910.2	-58.0	-13.6	19.4	8.62	8.08	-12.42
6,947.0	17.87	165.62	6,940.9	-66.8	-11.5	26.0	8.79	8.63	-6.00
6,978.0	19.90	162.10	6,970.2	-76.4	-8.6	33.5	7.51	6.55	-11.35
7,010.0	21.33	156.43	7,000.2	-87.0	-4.6	42.5	7.67	4.47	-17.72
7,041.0	23.39	149.63	7,028.8	-97.4	0.7	52.6	10.66	6.65	-21.94
7,072.0	25.79	141.72	7,057.0	-108.0	8.0	64.4	13.13	7.74	-25.52
7,104.0	28.29	138.86	7,085.5	-119.2	17.3	78.2	8.80	7.81	-8.94
7,136.0	30.63	133.23	7,113.4	-130.5	28.2	93.5	11.32	7.31	-17.59
7,167.0	32.42	130.24	7,139.8	-141.3	40.3	109.5	7.67	5.77	-9.65
7,199.0	35.28	127.14	7,166.4	-152.4	54.3	127.2	10.44	8.94	-9.69
7,230.0	38.33	124.84	7,191.2	-163.3	69.3	145.7	10.79	9.84	-7.42
7,261.0	41.10	126.49	7,215.1	-174.9	85.4	165.5	9.56	8.94	5.32
7,292.0	44.34	127.25	7,237.8	-187.5	102.2	186.5	10.58	10.45	2.45
7,433.0	49.65	124.55	7,334.0	-247.8	185.7	289.3	4.02	3.77	-1.91
7,465.0	51.25	120.20	7,354.4	-261.0	206.6	314.0	11.61	5.00	-13.59
7,497.0	54.12	118.35	7,373.8	-273.5	228.8	339.4	10.08	8.97	-5.78
7,529.0	59.53	117.32	7,391.3	-286.0	252.5	366.1	17.12	16.91	-3.22
7,561.0	65.41	117.39	7,406.0	-299.0	277.6	394.3	18.38	18.38	0.22
7,592.0	70.92	118.37	7,417.6	-312.5	303.1	423.0	18.01	17.77	3.16
7,626.0	75.84	117.29	7,427.3	-327.7	331.9	455.5	14.79	14.47	-3.18
7,660.0	79.81	118.28	7,434.5	-343.1	361.3	488.6	12.02	11.68	2.91
7,692.0	83.81	117.89	7,439.0	-358.1	389.2	520.2	12.56	12.50	-1.22
7,724.0	88.14	117.16	7,441.3	-372.8	417.5	552.0	13.72	13.53	-2.28
7,756.0	91.45	117.40	7,441.4	-387.5	445.9	583.9	10.37	10.34	0.75
7,788.0	91.48	118.82	7,440.6	-402.5	474.2	615.8	4.44	0.09	4.44
7,820.0	93.22	120.34	7,439.3	-418.3	502.0	647.7	7.22	5.44	4.75

Company:	Enervest Operating, LLC	Local Co-ordinate Reference:	Well Bear Canyon Unit #6-14
Project:	Rio Arriba County, NM (NAD83 NME)	TVD Reference:	KB Elev. @ 7400.0ft (12 ft KB)
Site:	Bear Canyon Unit #6-14	MD Reference:	KB Elev. @ 7400.0ft (12 ft KB)
Well:	Bear Canyon Unit #6-14	North Reference:	Grid
Wellbore:	ST #1	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,851.0	93.09	119.90	7,437.5	-433.8	528.7	678.7	1.48	-0.42	-1.42
7,883.0	92.57	122.02	7,436.0	-450.3	556.1	710.6	6.81	-1.63	6.63
7,915.0	91.37	121.62	7,434.9	-467.2	583.3	742.6	3.95	-3.75	-1.25
7,946.0	90.97	120.34	7,434.2	-483.1	609.9	773.6	4.33	-1.29	-4.13
7,978.0	90.87	120.85	7,433.7	-499.4	637.4	805.6	1.62	-0.31	1.59
8,010.0	90.97	120.36	7,433.2	-515.7	665.0	837.5	1.56	0.31	-1.53
8,042.0	90.40	119.43	7,432.8	-531.6	692.7	869.5	3.41	-1.78	-2.91
8,075.0	90.67	121.17	7,432.5	-548.3	721.2	902.5	5.34	0.82	5.27
8,106.0	90.30	122.15	7,432.3	-564.5	747.6	933.5	3.38	-1.19	3.16
8,137.0	91.71	121.71	7,431.7	-580.9	773.9	964.5	4.76	4.55	-1.42
8,169.0	93.96	122.79	7,430.1	-598.0	800.9	996.4	7.80	7.03	3.38
8,201.0	93.56	124.29	7,428.0	-615.6	827.5	1,028.4	4.84	-1.25	4.69
8,233.0	93.56	124.61	7,426.0	-633.7	853.9	1,060.3	1.00	0.00	1.00
8,266.0	93.29	122.92	7,424.1	-652.0	881.3	1,093.2	5.18	-0.82	-5.12
8,298.0	92.76	123.07	7,422.4	-669.4	908.1	1,125.2	1.72	-1.66	0.47
8,330.0	93.97	124.43	7,420.5	-687.2	934.6	1,157.1	5.68	3.78	4.25
8,362.0	93.88	124.78	7,418.3	-705.3	960.9	1,189.0	1.13	-0.28	1.09
8,394.0	95.26	124.39	7,415.8	-723.4	987.2	1,220.9	4.48	4.31	-1.22
8,425.0	95.17	124.69	7,412.9	-740.9	1,012.6	1,251.7	1.01	-0.29	0.97
8,458.0	95.62	123.96	7,409.8	-759.4	1,039.7	1,284.5	2.59	1.36	-2.21
8,488.0	95.99	123.87	7,406.8	-776.1	1,064.5	1,314.4	1.27	1.23	-0.30
8,520.0	96.42	122.46	7,403.3	-793.5	1,091.1	1,346.2	4.58	1.34	-4.41
8,552.0	96.65	123.09	7,399.7	-810.7	1,117.8	1,378.0	2.08	0.72	1.97
8,583.0	96.97	123.34	7,396.0	-827.6	1,143.6	1,408.7	1.31	1.03	0.81
8,615.0	97.02	123.58	7,392.1	-845.1	1,170.1	1,440.5	0.76	0.16	0.75
8,646.0	95.23	126.00	7,388.8	-862.6	1,195.4	1,471.3	9.67	-5.77	7.81
8,678.0	93.93	126.21	7,386.3	-881.4	1,221.2	1,503.1	4.11	-4.06	0.66
8,710.0	94.61	124.27	7,383.9	-899.9	1,247.2	1,535.0	6.41	2.13	-6.06
8,741.0	93.97	124.36	7,381.6	-917.3	1,272.8	1,565.9	2.08	-2.06	0.29
8,772.0	94.11	123.17	7,379.4	-934.5	1,298.5	1,596.8	3.86	0.45	-3.84
8,803.0	93.70	124.04	7,377.3	-951.6	1,324.2	1,627.7	3.10	-1.32	2.81
8,835.0	93.57	124.52	7,375.2	-969.6	1,350.6	1,659.6	1.55	-0.41	1.50
8,866.0	93.50	125.63	7,373.3	-987.4	1,375.9	1,690.5	3.58	-0.23	3.58
8,898.0	93.13	126.88	7,371.5	-1,006.2	1,401.7	1,722.4	4.07	-1.16	3.91
8,930.0	92.59	126.53	7,369.9	-1,025.3	1,427.3	1,754.3	2.01	-1.69	-1.09
8,962.0	92.79	125.53	7,368.4	-1,044.1	1,453.2	1,786.1	3.18	0.63	-3.13
8,995.0	90.67	125.61	7,367.4	-1,063.3	1,480.0	1,819.1	6.43	-6.42	0.24
9,027.0	90.17	125.90	7,367.2	-1,082.0	1,506.0	1,851.0	1.81	-1.56	0.91
9,059.0	89.93	125.20	7,367.1	-1,100.6	1,532.0	1,883.0	2.31	-0.75	-2.19
9,091.0	89.97	124.66	7,367.2	-1,119.0	1,558.2	1,914.9	1.69	0.13	-1.69
9,122.0	89.83	124.18	7,367.2	-1,136.5	1,583.8	1,945.9	1.61	-0.45	-1.55
9,154.0	89.63	123.74	7,367.4	-1,154.4	1,610.4	1,977.9	1.51	-0.63	-1.38
9,186.0	89.16	123.66	7,367.7	-1,172.1	1,637.0	2,009.9	1.49	-1.47	-0.25
9,218.0	89.13	122.92	7,368.2	-1,189.7	1,663.7	2,041.9	2.31	-0.09	-2.31

Company:	Enervest Operating, LLC	Local Co-ordinate Reference:	Well Bear Canyon Unit #6-14
Project:	Rio Arriba County, NM (NAD83 NME)	TVD Reference:	KB Elev. @ 7400.0ft (12 ft KB)
Site:	Bear Canyon Unit #6-14	MD Reference:	KB Elev. @ 7400.0ft (12 ft KB)
Well:	Bear Canyon Unit #6-14	North Reference:	Grid
Wellbore:	ST #1	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	EDM 5000.1 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,250.0	88.69	123.87	7,368.8	-1,207.3	1,690.4	2,073.9	3.27	-1.38	2.97
9,282.0	88.39	123.87	7,369.6	-1,225.1	1,717.0	2,105.8	0.94	-0.94	0.00
9,314.0	89.66	123.71	7,370.1	-1,242.9	1,743.6	2,137.8	4.00	3.97	-0.50
9,346.0	89.16	124.53	7,370.5	-1,260.9	1,770.1	2,169.8	3.00	-1.56	2.56
9,378.0	87.95	124.23	7,371.3	-1,278.9	1,796.5	2,201.8	3.90	-3.78	-0.94
9,409.0	89.73	126.13	7,371.9	-1,296.8	1,821.8	2,232.7	8.40	5.74	6.13
9,441.0	90.00	125.12	7,372.0	-1,315.4	1,847.8	2,264.7	3.27	0.84	-3.16
9,475.0	89.60	126.34	7,372.1	-1,335.3	1,875.4	2,298.6	3.78	-1.18	3.59
9,507.0	89.83	124.97	7,372.3	-1,353.9	1,901.4	2,330.5	4.34	0.72	-4.28
9,539.0	89.90	123.59	7,372.3	-1,371.9	1,927.9	2,362.5	4.32	0.22	-4.31
9,571.0	90.34	122.53	7,372.3	-1,389.4	1,954.7	2,394.5	3.59	1.38	-3.31
9,602.0	89.73	120.64	7,372.2	-1,405.6	1,981.1	2,425.5	6.41	-1.97	-6.10
9,634.0	90.00	120.48	7,372.3	-1,421.9	2,008.6	2,457.5	0.98	0.84	-0.50
9,666.0	89.77	119.09	7,372.4	-1,437.8	2,036.4	2,489.5	4.40	-0.72	-4.34
9,700.0	90.10	120.00	7,372.4	-1,454.6	2,066.0	2,523.4	2.85	0.97	2.68
9,732.0	90.10	119.79	7,372.4	-1,470.5	2,093.7	2,555.4	0.66	0.00	-0.66
9,764.0	91.99	118.79	7,371.8	-1,486.2	2,121.6	2,587.3	6.68	5.91	-3.13
9,796.0	94.66	118.86	7,369.9	-1,501.6	2,149.6	2,619.2	8.35	8.34	0.22
9,827.0	94.53	119.75	7,367.4	-1,516.7	2,176.6	2,650.1	2.89	-0.42	2.87
9,859.0	94.56	119.45	7,364.9	-1,532.4	2,204.3	2,682.0	0.94	0.09	-0.94
9,891.0	93.98	119.25	7,362.5	-1,548.1	2,232.1	2,713.8	1.92	-1.81	-0.63
9,923.0	94.15	119.27	7,360.3	-1,563.7	2,260.0	2,745.7	0.53	0.53	0.06
9,955.0	94.23	117.88	7,357.9	-1,579.0	2,288.0	2,777.6	4.34	0.25	-4.34
9,987.0	93.86	118.14	7,355.7	-1,593.9	2,316.2	2,809.4	1.41	-1.16	0.81
10,019.0	94.07	117.10	7,353.5	-1,608.7	2,344.5	2,841.2	3.31	0.66	-3.25
10,050.0	93.75	118.17	7,351.3	-1,623.1	2,371.9	2,872.0	3.59	-1.03	3.45
10,125.0	92.98	120.76	7,346.9	-1,659.9	2,437.0	2,946.8	3.60	-1.03	3.45

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
hit/miss target - Shape PBHL-BCU #6-14 - actual wellpath misses target center by 1713.6ft at 10125.0ft MD (7346.9 TVD, -1659.9 N, 2437.0 E) - Point	0.00	3.94	7,337.0	-2,650.7	3,835.1	1,996,347.00	1,416,074.93	36° 29' 2.502 N	107° 0' 47.350 W
Landing PT - BCU #6- - actual wellpath misses target center by 76.5ft at 7710.9ft MD (7440.6 TVD, -366.8 N, 405.8 E) - Point	0.00	360.00	7,386.6	-416.4	384.3	1,998,581.23	1,412,624.27	36° 29' 24.323 N	107° 1' 29.824 W

Checked By: _____ Approved By: _____ Date: _____