



Advance Energy Partners, LLC

Dagger Lake 5 State 801H
Lea County, New Mexico
WT-19-159
H&P 389
Plan 1.0 Final PVA



SITE DETAILS: Dagger Lake 5 State 801H

Site Centre Northing: 517115.60
Easting: 767166.60

Positional Uncertainty: 0.00
Convergence: 0.39
Local North: Grid



Azimuths to Grid North
True North: -0.39°
Magnetic North: 6.22°

Magnetic Field
Strength: 48054.4nT
Dip Angle: 60.16°
Date: 10/7/2019
Model: MVHD

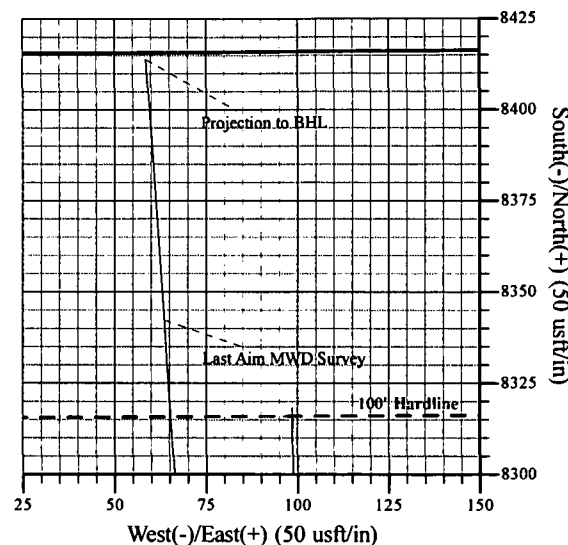
Magnetic North: 6.22° to Grid North

PROJECT DETAILS: Lea County, New Mexico

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Depth Reference:
3655'GL+25.5'KB @ 3680.50usft (H&P 389)

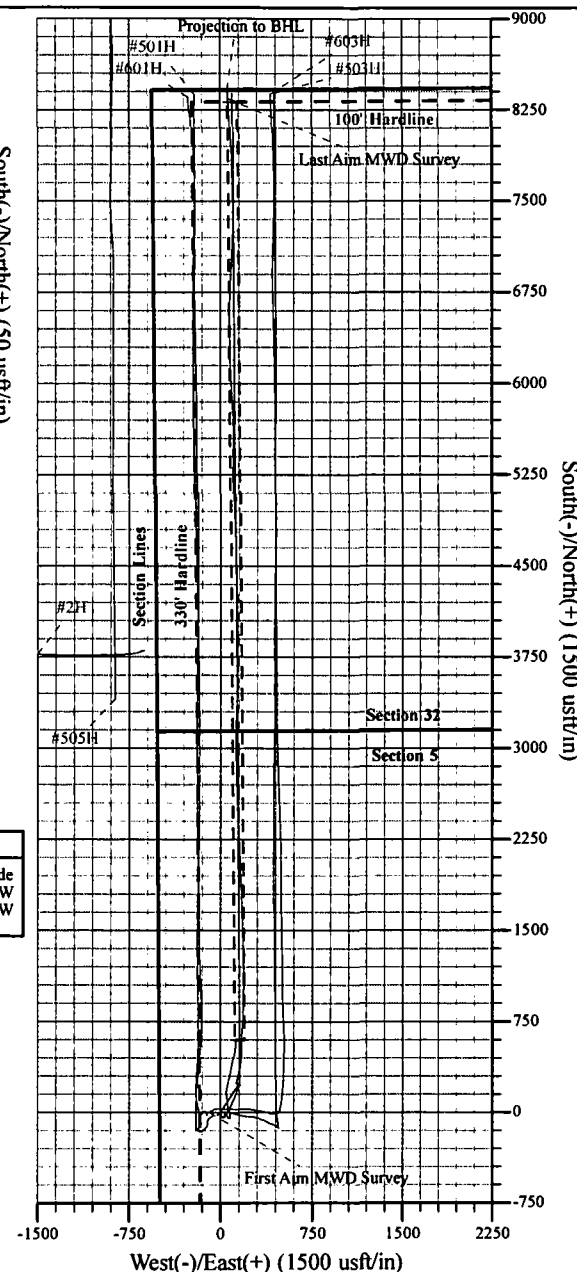
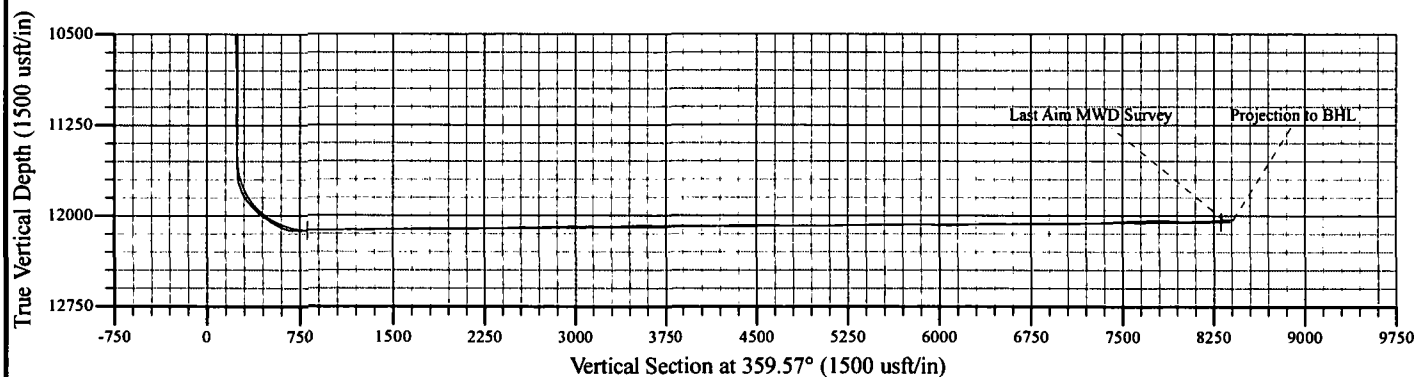


SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
1	20026.00	93.14	356.02	12039.45	8342.21	63.65	0.00	0.00	8341.50	Last Aim MWD Survey
2	20098.00	93.14	356.02	12035.51	8413.93	58.66	0.00	0.00	8413.25	Projection to BHL

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
FTP (Dagger801H)	0.00	600.90	155.90	517716.50	767322.50	32° 25' 16.106 N	103° 36' 3.465 W
PBHL r1 (Dagger801H)	12054.94	8315.90	98.60	525431.50	767265.20	32° 26' 32.449 N	103° 36' 3.517 W



Aim Directional Services, LLC

Survey Report

Company: Advance Energy Partners, LLC
Project: Lea County, New Mexico
Site: Dagger Lake 5 State 801H
Well: #801H
Wellbore: Aim MWD Surveys
Design: Aim MWD Surveys

Local Co-ordinate Reference: Site Dagger Lake 5 State 801H
TVD Reference: 3655'GL+25.5'KB @ 3680.50usft (H&P 389)
MD Reference: 3655'GL+25.5'KB @ 3680.50usft (H&P 389)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14 Single User Db

Project	Lea County, New Mexico		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Dagger Lake 5 State 801H			
Site Position:		Northing:	517,115.60 usft	Latitude:	32° 25' 10.171 N
From:	Map	Easting:	767,166.60 usft	Longitude:	103° 36' 5.332 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.39 °

Well	#801H - Slot 801H					
Well Position	+N/-S	0.00 usft	Northing:	517,115.60 usft	Latitude:	32° 25' 10.171 N
	+E/-W	0.00 usft	Easting:	767,166.60 usft	Longitude:	103° 36' 5.332 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,655.00 usft

Wellbore	Aim MWD Surveys				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	10/9/2019	6.61	60.16	48,053.77917593

Design	Aim MWD Surveys				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	359.57	

Survey Program	Date 11/6/2019				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
232.00	20,098.00	Aim MWD Surveys (Aim MWD Surveys)	B001Mb_MWD+HRGM	OWSG MWD + HRGM	

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
232.00	0.44	159.50	232.00	-0.83	0.31	-0.84	0.19	0.19	0.00
First Aim MWD Survey									
327.00	0.88	154.58	326.99	-1.83	0.75	-1.84	0.47	0.46	-5.18
422.00	1.27	160.56	421.97	-3.49	1.42	-3.50	0.43	0.41	6.29
517.00	1.54	160.64	516.95	-5.68	2.19	-5.70	0.28	0.28	0.08
612.00	1.85	164.16	611.90	-8.36	3.03	-8.39	0.34	0.33	3.71
707.00	1.98	164.42	706.85	-11.42	3.89	-11.45	0.14	0.14	0.27
802.00	2.20	172.42	801.79	-14.81	4.57	-14.84	0.38	0.23	8.42
898.00	2.20	166.88	897.72	-18.43	5.23	-18.47	0.22	0.00	-5.77
992.00	2.37	172.95	991.64	-22.11	5.88	-22.16	0.31	0.18	6.46

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Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,082.00	2.81	168.73	1,081.55	-26.13	6.54	-26.17	0.53	0.49	-4.69
1,156.00	2.86	168.29	1,155.46	-29.71	7.27	-29.77	0.07	0.07	-0.59
1,246.00	2.51	173.30	1,245.36	-33.87	7.96	-33.93	0.47	-0.39	5.57
1,341.00	2.37	154.58	1,340.28	-37.71	9.04	-37.77	0.85	-0.15	-19.71
1,437.00	0.92	141.22	1,436.23	-40.10	10.38	-40.18	1.55	-1.51	-13.92
1,532.00	0.88	122.59	1,531.22	-41.09	11.47	-41.17	0.31	-0.04	-19.61
1,621.00	1.01	113.89	1,620.21	-41.77	12.76	-41.87	0.22	0.15	-9.78
1,711.00	1.05	104.48	1,710.20	-42.30	14.29	-42.41	0.19	0.04	-10.46
1,801.00	0.97	88.84	1,800.18	-42.49	15.85	-42.61	0.32	-0.09	-17.38
1,890.00	0.57	117.93	1,889.17	-42.69	16.99	-42.81	0.61	-0.45	32.69
1,980.00	0.62	102.64	1,979.17	-43.00	17.86	-43.13	0.18	0.06	-16.99
2,160.00	1.32	95.87	2,159.14	-43.43	20.87	-43.58	0.39	0.39	-3.76
2,249.00	1.32	78.29	2,248.12	-43.32	22.90	-43.49	0.45	0.00	-19.75
2,339.00	0.75	57.02	2,338.11	-42.79	24.41	-42.97	0.75	-0.63	-23.63
2,429.00	0.92	17.91	2,428.10	-41.78	25.12	-41.97	0.65	0.19	-43.46
2,519.00	1.41	32.41	2,518.08	-40.16	25.94	-40.36	0.63	0.54	16.11
2,609.00	0.88	8.59	2,608.06	-38.54	26.64	-38.74	0.78	-0.59	-26.47
2,698.00	0.26	181.74	2,697.06	-38.07	26.73	-38.27	1.28	-0.70	194.55
2,788.00	0.66	94.99	2,787.05	-38.32	27.24	-38.52	0.77	0.44	-96.39
2,878.00	1.23	80.49	2,877.04	-38.20	28.71	-38.42	0.68	0.63	-16.11
2,967.00	0.22	21.34	2,966.03	-37.89	29.71	-38.11	1.27	-1.13	-66.46
3,057.00	0.84	38.74	3,056.03	-37.21	30.19	-37.44	0.70	0.89	19.33
3,147.00	0.57	32.59	3,146.02	-36.32	30.84	-36.55	0.31	-0.30	-6.83
3,237.00	0.09	61.15	3,236.02	-35.91	31.15	-36.14	0.55	-0.53	31.73
3,327.00	0.53	169.78	3,326.02	-36.28	31.28	-36.52	0.63	0.49	120.70
3,417.00	1.41	102.64	3,416.01	-36.94	32.44	-37.18	1.44	0.98	-74.60
3,506.00	1.76	119.51	3,504.98	-37.85	34.70	-38.11	0.65	0.39	18.98
3,596.00	0.31	106.15	3,594.96	-38.60	36.13	-38.87	1.62	-1.61	-14.84
3,686.00	0.13	318.41	3,684.96	-38.59	36.30	-38.86	0.47	-0.20	-164.16
3,776.00	0.40	60.10	3,774.96	-38.36	36.50	-38.63	0.49	0.30	112.99
3,866.00	0.62	284.13	3,864.96	-38.08	36.30	-38.35	1.05	0.24	-151.08
3,955.00	1.01	276.75	3,953.95	-37.87	35.06	-38.13	0.45	0.44	-8.29
4,045.00	0.53	7.27	4,043.94	-37.36	34.32	-37.62	1.27	-0.53	100.58
4,135.00	0.62	20.81	4,133.94	-36.50	34.55	-36.75	0.18	0.10	15.04
4,225.00	0.48	55.88	4,223.93	-35.83	35.03	-36.09	0.40	-0.16	38.97
4,314.00	0.62	73.46	4,312.93	-35.48	35.80	-35.75	0.24	0.16	19.75
4,404.00	0.75	66.07	4,402.92	-35.11	36.81	-35.38	0.17	0.14	-8.21
4,494.00	0.92	64.05	4,492.91	-34.55	38.00	-34.84	0.19	0.19	-2.24
4,584.00	0.82	275.60	4,582.91	-34.19	38.16	-34.47	1.65	-0.33	-164.94
4,674.00	1.41	262.33	4,672.89	-34.29	38.58	-34.56	0.91	0.88	-14.74
4,764.00	1.27	267.43	4,762.87	-34.48	34.49	-34.74	0.20	-0.16	5.67
4,943.00	1.19	269.01	4,941.83	-34.60	30.65	-34.83	0.05	-0.04	0.88
5,033.00	1.41	271.30	5,031.80	-34.59	28.60	-34.81	0.25	0.24	2.54

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Survey

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5,123.00	0.44	28.02	5,121.80	-34.26	27.66	-34.47	1.84	-1.08	129.69
5,212.00	1.58	59.66	5,210.78	-33.34	28.88	-33.56	1.38	1.28	35.55
5,302.00	2.33	47.97	5,300.73	-31.49	31.31	-31.72	0.94	0.83	-12.99
5,392.00	3.96	45.51	5,390.59	-28.09	34.88	-28.35	1.82	1.81	-2.73
5,482.00	5.05	40.67	5,480.31	-22.90	39.68	-23.20	1.28	1.21	-5.38
5,572.00	6.33	36.37	5,569.87	-15.90	45.21	-16.24	1.50	1.42	-4.78
5,661.00	7.21	33.73	5,658.24	-7.31	51.22	-7.69	1.05	0.99	-2.97
5,751.00	7.30	33.91	5,747.52	2.13	57.54	1.70	0.10	0.10	0.20
5,841.00	7.91	29.51	5,836.73	12.27	63.78	11.79	0.94	0.68	-4.89
5,930.00	8.53	29.07	5,924.82	23.37	70.01	22.84	0.70	0.70	-0.49
6,020.00	8.57	25.73	6,013.82	35.24	76.16	34.67	0.55	0.04	-3.71
6,110.00	8.79	25.56	6,102.79	47.49	82.04	46.87	0.25	0.24	-0.19
6,199.00	9.05	23.01	6,190.71	60.06	87.71	59.40	0.53	0.29	-2.87
6,289.00	9.01	22.39	6,279.60	73.10	93.16	72.39	0.12	-0.04	-0.69
6,378.00	7.96	21.78	6,367.62	85.26	98.10	84.52	1.18	-1.18	-0.69
6,468.00	7.47	22.83	6,456.81	96.44	102.69	95.67	0.57	-0.54	1.17
6,558.00	7.16	23.01	6,546.07	107.00	107.15	106.19	0.35	-0.34	0.20
6,647.00	7.16	23.01	6,634.38	117.21	111.48	116.37	0.00	0.00	0.00
6,737.00	6.77	22.83	6,723.71	127.26	115.73	126.39	0.43	-0.43	-0.20
6,827.00	6.77	22.30	6,813.09	137.06	119.81	136.15	0.07	0.00	-0.59
6,916.00	6.46	20.11	6,901.49	146.61	123.52	145.68	0.45	-0.35	-2.46
7,006.00	5.98	22.74	6,990.96	155.69	127.07	154.73	0.62	-0.53	2.92
7,096.00	5.23	24.85	7,080.53	163.73	130.61	162.75	0.86	-0.83	2.34
7,186.00	4.97	21.60	7,170.18	171.08	133.77	170.07	0.43	-0.29	-3.61
7,276.00	4.66	20.63	7,259.86	178.13	136.49	177.10	0.36	-0.34	-1.08
7,365.00	4.53	23.80	7,348.57	184.73	139.18	183.68	0.32	-0.15	3.56
7,455.00	3.96	24.68	7,438.33	190.80	141.91	189.73	0.64	-0.63	0.98
7,545.00	3.65	21.34	7,528.13	196.30	144.25	195.21	0.42	-0.34	-3.71
7,635.00	3.08	20.46	7,617.97	201.23	146.14	200.13	0.64	-0.63	-0.98
7,724.00	2.77	25.20	7,708.86	205.41	147.89	204.30	0.44	-0.35	5.33
7,814.00	2.42	25.91	7,796.76	209.09	149.65	207.96	0.39	-0.39	0.79
7,904.00	2.33	24.76	7,886.69	212.46	151.25	211.32	0.11	-0.10	-1.28
7,993.00	1.85	26.79	7,975.63	215.39	152.65	214.24	0.55	-0.54	2.28
8,083.00	1.63	27.31	8,065.59	217.82	153.89	216.66	0.25	-0.24	0.58
8,173.00	1.67	33.99	8,155.55	220.05	155.21	218.88	0.22	0.04	7.42
8,262.00	1.49	26.52	8,244.52	222.16	156.45	220.98	0.31	-0.20	-8.39
8,352.00	1.14	22.48	8,334.49	224.03	157.32	222.84	0.40	-0.39	-4.49
8,441.00	1.01	33.29	8,423.48	225.50	158.09	224.31	0.27	-0.15	12.15
8,531.00	0.88	26.70	8,513.46	226.79	158.83	225.59	0.19	-0.14	-7.32
8,621.00	0.84	32.68	8,603.45	227.96	159.50	226.75	0.11	-0.04	6.64
8,711.00	0.79	38.48	8,693.44	229.00	160.24	227.79	0.11	-0.06	8.44
8,800.00	0.62	54.74	8,782.44	229.76	161.02	228.54	0.29	-0.19	18.27
8,890.00	0.66	115.64	8,872.43	229.81	161.88	228.59	0.72	0.04	67.67

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8,980.00	1.01	141.84	8,962.42	228.97	162.84	227.74	0.57	0.39	29.11
9,069.00	0.70	178.93	9,051.41	227.81	163.34	226.57	0.69	-0.35	41.67
9,159.00	0.88	185.52	9,141.41	226.57	163.28	225.34	0.22	0.20	7.32
9,249.00	0.70	215.66	9,231.40	225.43	162.89	224.20	0.50	-0.20	33.49
9,338.00	1.10	227.09	9,320.39	224.41	161.95	223.19	0.49	0.45	12.84
9,428.00	1.23	236.41	9,410.37	223.29	160.51	222.08	0.25	0.14	10.36
9,518.00	1.58	258.20	9,500.34	222.50	158.49	221.30	0.70	0.39	24.21
9,607.00	1.10	285.10	9,589.32	222.47	156.47	221.29	0.87	-0.54	30.22
9,697.00	0.75	313.22	9,679.31	223.10	155.20	221.93	0.63	-0.39	31.24
9,786.00	0.79	298.02	9,768.30	223.79	154.24	222.62	0.23	0.04	-17.08
9,876.00	1.05	302.06	9,858.29	224.52	152.99	223.36	0.30	0.29	4.49
9,966.00	1.27	291.78	9,948.27	225.32	151.37	224.18	0.34	0.24	-11.42
10,056.00	1.23	304.43	10,038.25	226.24	149.64	225.11	0.31	-0.04	14.06
10,145.00	1.32	312.61	10,127.23	227.47	148.10	226.36	0.23	0.10	9.19
10,235.00	1.36	330.10	10,217.20	229.10	146.81	227.99	0.45	0.04	19.43
10,324.00	1.14	333.09	10,306.18	230.81	145.88	229.71	0.26	-0.25	3.36
10,414.00	1.45	321.40	10,396.16	232.50	144.76	231.40	0.45	0.34	-12.99
10,504.00	1.63	325.61	10,486.12	234.44	143.33	233.36	0.24	0.20	4.68
10,593.00	1.67	314.54	10,575.09	236.40	141.69	235.33	0.36	0.04	-12.44
10,608.00	1.63	318.50	10,590.08	236.71	141.39	235.64	0.81	-0.27	26.40
10,728.00	2.07	306.72	10,710.02	239.28	138.52	238.24	0.48	0.37	-9.82
10,822.00	1.63	304.43	10,803.97	241.05	136.06	240.03	0.47	-0.47	-2.44
10,917.00	0.92	281.93	10,898.95	241.98	134.20	240.96	0.90	-0.75	-23.68
11,011.00	1.45	263.12	10,992.93	241.99	132.28	240.99	0.69	0.56	-20.01
11,106.00	2.07	254.42	11,087.88	241.38	129.44	240.41	0.71	0.65	-9.16
11,200.00	0.79	147.90	11,181.86	240.38	128.14	239.41	2.57	-1.36	-113.32
11,294.00	0.31	54.65	11,275.86	239.98	128.70	239.00	0.92	-0.51	-99.20
11,389.00	1.32	4.81	11,370.85	241.22	129.00	240.24	1.21	1.06	-52.46
11,483.00	1.14	2.88	11,464.82	243.23	129.13	242.25	0.20	-0.19	-2.05
11,578.00	1.49	32.59	11,559.80	245.21	129.85	244.23	0.79	0.37	31.27
11,668.00	1.41	27.93	11,647.77	247.13	130.97	246.14	0.16	-0.09	-5.30
11,760.00	15.60	13.34	11,740.50	260.52	134.45	259.51	15.15	15.10	-15.52
11,855.00	29.05	14.22	11,828.18	295.47	143.10	294.39	14.16	14.16	0.93
11,949.00	39.87	13.51	11,905.57	347.04	155.78	345.86	11.52	11.51	-0.76
12,044.00	47.21	6.22	11,974.43	411.43	166.69	410.17	9.35	7.73	-7.67
12,138.00	56.44	2.09	12,032.48	485.04	171.87	483.73	10.41	9.82	-4.39
12,233.00	59.87	359.01	12,082.61	565.71	172.61	564.40	4.54	3.61	-3.24
12,327.00	74.29	3.32	12,119.14	652.01	174.54	650.68	15.91	15.34	4.59
12,363.00	82.77	4.55	12,126.29	687.17	176.96	685.83	23.79	23.56	3.42
12,424.00	92.57	4.55	12,128.77	747.86	181.79	746.47	16.07	16.07	0.00
12,518.00	90.29	1.39	12,126.42	841.68	186.68	840.26	4.14	-2.43	-3.36
12,613.00	92.31	2.00	12,124.26	936.61	189.46	935.16	2.22	2.13	0.64
12,707.00	90.59	0.42	12,121.89	1,030.56	191.45	1,029.09	2.48	-1.83	-1.68
12,802.00	92.22	358.75	12,119.56	1,125.52	190.76	1,124.05	2.46	1.72	-1.76

Aim Directional Services, LLC

Survey Report

Company: Advance Energy Partners, LLC
Project: Lea County, New Mexico
Site: Dagger Lake 5 State 801H
Well: #801H
Wellbore: Aim MWD Surveys
Design: Aim MWD Surveys

Local Co-ordinate Reference: Site Dagger Lake 5 State 801H
TVD Reference: 3655'GL+25.5'KB @ 3680.50usft (H&P 389)
MD Reference: 3655'GL+25.5'KB @ 3680.50usft (H&P 389)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,896.00	90.29	358.66	12,117.50	1,219.47	188.64	1,218.02	2.06	-2.05	-0.10
12,991.00	89.67	357.52	12,117.53	1,314.41	185.47	1,312.98	1.37	-0.65	-1.20
13,086.00	91.91	359.01	12,116.22	1,409.35	182.59	1,407.94	2.83	2.36	1.57
13,180.00	91.87	359.10	12,113.12	1,503.29	181.05	1,501.89	0.10	-0.04	0.10
13,275.00	87.65	357.96	12,113.52	1,598.23	178.61	1,598.85	4.60	-4.44	-1.20
13,369.00	93.32	357.78	12,112.72	1,692.12	175.12	1,690.76	6.03	6.03	-0.19
13,464.00	90.86	357.87	12,109.26	1,786.99	171.51	1,785.65	2.59	-2.59	0.09
13,559.00	87.69	357.43	12,110.46	1,881.89	167.62	1,880.58	3.37	-3.34	-0.46
13,653.00	89.89	357.78	12,112.45	1,975.78	163.69	1,974.49	2.37	2.34	0.37
13,748.00	92.79	358.40	12,110.22	2,070.69	160.53	2,069.42	3.12	3.05	0.65
13,842.00	88.18	357.52	12,109.43	2,164.60	157.18	2,163.36	4.99	-4.90	-0.94
13,937.00	90.90	356.99	12,110.19	2,259.48	152.63	2,258.27	2.92	2.86	-0.56
14,031.00	91.52	356.73	12,108.21	2,353.31	147.49	2,352.14	0.72	0.66	-0.28
14,126.00	92.62	356.55	12,104.77	2,448.09	141.92	2,446.95	1.17	1.16	-0.19
14,220.00	90.99	358.49	12,101.81	2,541.95	137.88	2,540.84	2.69	-1.73	2.08
14,315.00	89.67	358.05	12,101.27	2,636.90	134.99	2,635.81	1.46	-1.39	-0.46
14,443.00	91.34	356.99	12,100.14	2,764.77	129.45	2,763.72	1.55	1.30	-0.83
14,538.00	91.96	0.60	12,097.40	2,859.69	127.45	2,858.65	3.85	0.65	3.80
14,632.00	92.53	0.07	12,093.72	2,953.62	128.00	2,952.57	0.83	0.61	-0.56
14,727.00	88.97	359.10	12,092.48	3,048.59	127.31	3,047.55	3.88	-3.75	-1.02
14,822.00	89.93	359.01	12,093.39	3,143.57	125.75	3,142.54	1.01	1.01	-0.09
14,916.00	89.98	2.53	12,093.46	3,237.55	127.01	3,236.50	3.75	0.05	3.74
15,011.00	90.59	2.53	12,092.99	3,332.45	131.20	3,331.37	0.64	0.64	0.00
15,106.00	93.01	3.32	12,090.01	3,427.27	136.05	3,426.16	2.68	2.55	0.83
15,200.00	90.95	359.72	12,086.76	3,521.17	138.54	3,520.03	4.41	-2.19	-3.83
15,295.00	88.92	359.36	12,086.87	3,616.16	137.78	3,615.02	2.17	-2.14	-0.38
15,390.00	89.76	359.80	12,087.96	3,711.15	137.08	3,710.01	1.00	0.88	0.46
15,485.00	90.07	0.51	12,088.10	3,806.15	137.34	3,805.01	0.82	0.33	0.75
15,580.00	90.02	0.95	12,088.03	3,901.14	138.55	3,899.99	0.47	-0.05	0.46
15,674.00	89.80	0.42	12,088.17	3,995.13	139.67	3,993.97	0.61	-0.23	-0.56
15,769.00	88.97	358.93	12,089.19	4,090.12	139.13	4,088.96	1.80	-0.87	-1.57
15,864.00	90.86	359.28	12,089.33	4,185.10	137.65	4,183.95	2.02	1.99	0.37
15,958.00	92.22	359.19	12,086.81	4,279.06	136.39	4,277.92	1.45	1.45	-0.10
16,053.00	91.47	359.19	12,083.75	4,374.00	135.05	4,372.86	0.79	-0.79	0.00
16,147.00	89.58	358.57	12,082.89	4,467.97	133.21	4,466.85	2.12	-2.01	-0.66
16,242.00	89.01	357.17	12,084.06	4,562.90	129.68	4,561.80	1.59	-0.60	-1.47
16,336.00	88.57	357.34	12,086.04	4,656.77	125.18	4,655.70	0.50	-0.47	0.18
16,430.00	89.32	357.26	12,087.77	4,750.65	120.76	4,749.61	0.80	0.80	-0.09
16,525.00	90.07	359.01	12,088.28	4,845.59	117.66	4,844.57	2.00	0.79	1.84
16,620.00	89.01	358.22	12,089.04	4,940.56	115.37	4,939.55	1.39	-1.12	-0.83
16,714.00	90.07	357.43	12,089.80	5,034.49	111.80	5,033.51	1.41	1.13	-0.84
16,809.00	92.84	357.61	12,087.38	5,129.36	107.69	5,128.40	2.92	2.92	0.19
16,904.00	92.40	359.19	12,083.04	5,224.22	105.04	5,223.28	1.72	-0.46	1.66

Aim Directional Services, LLC

Survey Report

Company: Advance Energy Partners, LLC
 Project: Lea County, New Mexico
 Site: Dagger Lake 5 State 801H
 Well: #801H
 Wellbore: Aim MWD Surveys
 Design: Aim MWD Surveys

Local Co-ordinate Reference: Site Dagger Lake 5 State 801H
 TVD Reference: 3655'GL+25.5'KB @ 3680.50usft (H&P 389)
 MD Reference: 3655'GL+25.5'KB @ 3680.50usft (H&P 389)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
16,999.00	90.86	0.60	12,080.34	5,319.17	104.87	5,318.24	2.20	-1.62	1.48
17,093.00	90.86	1.12	12,078.93	5,413.15	106.28	5,412.20	0.55	0.00	0.55
17,188.00	90.73	0.60	12,077.61	5,508.13	107.71	5,507.17	0.56	-0.14	-0.55
17,282.00	90.77	359.36	12,076.38	5,602.12	107.67	5,601.16	1.32	0.04	-1.32
17,377.00	90.07	357.87	12,075.68	5,697.09	105.38	5,696.14	1.73	-0.74	-1.57
17,472.00	90.24	357.26	12,075.43	5,792.00	101.34	5,791.08	0.67	0.18	-0.64
17,567.00	87.91	356.73	12,076.96	5,886.85	96.36	5,885.96	2.52	-2.45	-0.56
17,661.00	86.77	355.76	12,081.32	5,980.55	90.21	5,979.70	1.59	-1.21	-1.03
17,756.00	89.67	356.29	12,084.27	6,075.26	83.63	6,074.46	3.10	3.05	0.56
17,850.00	92.97	358.84	12,082.11	6,169.13	79.64	6,168.36	4.44	3.51	2.71
17,945.00	93.76	358.13	12,076.53	6,263.93	77.13	6,263.18	1.12	0.83	-0.75
18,040.00	93.10	359.45	12,070.85	6,358.74	75.13	6,358.00	1.55	-0.69	1.39
18,134.00	88.48	359.36	12,069.55	6,452.70	74.15	6,451.96	4.92	-4.91	-0.10
18,229.00	89.36	0.60	12,071.34	6,547.68	74.12	6,546.94	1.60	0.93	1.31
18,324.00	90.77	2.26	12,071.23	6,642.64	76.49	6,641.88	2.29	1.48	1.75
18,419.00	90.37	1.47	12,070.29	6,737.59	79.58	6,736.80	0.93	-0.42	-0.83
18,513.00	89.54	1.91	12,070.36	6,831.55	82.35	6,830.74	1.00	-0.88	0.47
18,607.00	89.63	3.23	12,071.04	6,925.45	86.57	6,924.60	1.41	0.10	1.40
18,702.00	91.03	4.90	12,070.50	7,020.20	93.30	7,019.30	2.29	1.47	1.76
18,797.00	89.19	1.47	12,070.31	7,115.04	98.58	7,114.10	4.10	-1.94	-3.61
18,891.00	92.88	0.95	12,068.62	7,208.98	100.56	7,208.03	3.96	3.93	-0.55
18,986.00	92.88	359.89	12,063.84	7,303.86	101.26	7,302.89	1.11	0.00	-1.12
19,080.00	93.01	0.07	12,059.01	7,397.74	101.23	7,396.77	0.24	0.14	0.19
19,175.00	93.05	359.54	12,053.99	7,492.60	100.90	7,491.63	0.56	0.04	-0.56
19,269.00	92.57	358.66	12,049.38	7,586.48	99.43	7,585.52	1.07	-0.51	-0.94
19,364.00	91.74	358.22	12,045.81	7,681.37	96.84	7,680.43	0.99	-0.87	-0.46
19,458.00	88.53	357.26	12,045.59	7,775.29	93.14	7,774.37	3.56	-3.41	-1.02
19,553.00	88.70	357.17	12,047.89	7,870.15	88.52	7,869.26	0.20	0.18	-0.09
19,647.00	88.88	357.34	12,049.87	7,964.02	84.02	7,963.16	0.26	0.19	0.18
19,742.00	90.64	357.52	12,050.27	8,058.92	79.76	8,058.09	1.86	1.85	0.19
19,837.00	91.52	356.82	12,048.48	8,153.78	75.07	8,152.99	1.18	0.93	-0.74
19,931.00	93.14	356.64	12,044.66	8,247.55	69.72	8,246.79	1.73	1.72	-0.19
20,026.00	93.14	356.02	12,039.45	8,342.21	63.65	8,341.50	0.65	0.00	-0.65
Last Aim MWD Survey									
20,098.00	93.14	356.02	12,035.51	8,413.93	58.66	8,413.25	0.00	0.00	0.00
Projection to BHL									

Aim Directional Services, LLC

Survey Report

Company:	Advance Energy Partners, LLC	Local Co-ordinate Reference:	Site Dagger Lake 5 State 801H
Project:	Lea County, New Mexico	TVD Reference:	3655'GL+25.5'KB @ 3680.50usft (H&P 389)
Site:	Dagger Lake 5 State 801H	MD Reference:	3655'GL+25.5'KB @ 3680.50usft (H&P 389)
Well:	#801H	North Reference:	Grid
Wellbore:	Aim MWD Surveys	Survey Calculation Method:	Minimum Curvature
Design:	Aim MWD Surveys	Database:	EDM 5000.14 Single User Db

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
232.00	232.00	-0.83	0.31	First Aim MWD Survey
20,026.00	12,039.45	8,342.21	63.65	Last Aim MWD Survey
20,098.00	12,035.51	8,413.93	58.66	Projection to BHL