



Survey Reports

Dagger State Com #508H (WT-18-099)

2018-06-24 to 2018-07-17

Lea, New Mexico, US (32.45, -103.61)

Aim Directional Services, LLC

Survey Report

Company:	Advance Energy Partners, LLC	Local Co-ordinate Reference:	Site Dagger State Com 508H
Project:	Lea County, New Mexico	TVD Reference:	3812'GL+25'KB @ 3837.00usft (H&P 262)
Site:	Dagger State Com 508H	MD Reference:	3812'GL+25'KB @ 3837.00usft (H&P 262)
Well:	#508H	North Reference:	Grid
Wellbore:	Aim MWD Surveys	Survey Calculation Method:	Minimum Curvature
Design:	Aim MWD Surveys	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 State Com 508H		
Site Position:		Northing:	528,188.50 usft
From:	Map	Easting:	764,672.80 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 26' 59.905 N
		Longitude:	103° 36' 33.549 W
		Grid Convergence:	0.39 °

Well	#508H - Slot 508H		
Well Position	+N/-S	0.00 usft	Northing: 528,188.50 usft
	+E/-W	0.00 usft	Easting: 764,672.80 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32° 26' 59.905 N
		Longitude:	103° 36' 33.549 W
		Ground Level:	3,812.00 usft

Wellbore	Aim MWD Surveys				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	6/26/2018	6.77	60.28	48,214.75950402

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		359.53

Survey Program	Date 7/16/2018				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
196.00	18,721.00	Aim MWD Surveys (Aim MWD Surveys)	B001Mb_MWD+HRGM	OWSG MWD + HRGM	

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
196.00	1.01	208.35	195.99	-1.52	-0.82	-1.51	0.52	0.52	0.00
First Aim MWD Survey									
286.00	1.05	217.49	285.98	-2.87	-1.70	-2.86	0.19	0.04	10.16
345.00	1.01	240.96	344.97	-3.55	-2.48	-3.53	0.71	-0.07	39.78
402.00	1.14	255.55	401.96	-3.94	-3.47	-3.91	0.53	0.23	25.60
461.00	1.63	283.15	460.94	-3.89	-4.86	-3.85	1.38	0.83	46.78
520.00	2.20	290.71	519.91	-3.30	-6.73	-3.25	1.05	0.97	12.81
581.00	2.77	292.99	580.85	-2.31	-9.18	-2.24	0.95	0.93	3.74
639.00	2.86	288.86	638.78	-1.30	-11.84	-1.20	0.38	0.16	-7.12
701.00	3.03	288.68	700.70	-0.27	-14.86	-0.15	0.27	0.27	-0.29

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Wellbore:	Aim MWD Surveys	Survey Calculation Method:	Minimum Curvature
Design:	Aim MWD Surveys	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)
761.00	3.12	280.77	760.61	0.54	-17.97	0.69	0.72	0.15	-13.18
853.00	3.52	276.91	852.46	1.35	-23.23	1.54	0.50	0.43	-4.20
945.00	3.52	279.81	944.28	2.17	-28.82	2.40	0.19	0.00	3.15
1,036.00	3.25	285.34	1,035.12	3.33	-34.06	3.61	0.47	-0.30	6.08
1,126.00	3.74	285.96	1,124.96	4.81	-39.34	5.13	0.55	0.54	0.69
1,219.00	2.95	285.78	1,217.80	6.29	-44.56	6.66	0.85	-0.85	-0.19
1,311.00	3.25	276.03	1,309.66	7.21	-49.43	7.62	0.66	0.33	-10.60
1,403.00	3.74	273.74	1,401.49	7.68	-55.02	8.13	0.55	0.53	-2.49
1,494.00	3.87	271.81	1,492.29	7.97	-61.05	8.47	0.20	0.14	-2.12
1,566.00	4.13	267.50	1,564.12	7.93	-66.07	8.48	0.55	0.36	-5.99
1,683.00	3.87	266.10	1,680.83	7.48	-74.22	8.09	0.24	-0.22	-1.20
1,778.00	3.25	260.30	1,775.65	6.81	-80.07	7.47	0.75	-0.65	-6.11
1,872.00	2.55	255.81	1,869.53	5.85	-84.72	6.54	0.78	-0.74	-4.78
1,966.00	2.42	255.29	1,963.44	4.83	-88.67	5.56	0.14	-0.14	-0.55
2,061.00	2.07	261.35	2,058.37	4.07	-92.31	4.82	0.44	-0.37	6.38
2,155.00	1.63	261.88	2,152.32	3.62	-95.31	4.40	0.47	-0.47	0.56
2,249.00	2.29	279.72	2,246.26	3.75	-98.48	4.56	0.95	0.70	18.98
2,344.00	3.12	278.14	2,341.15	4.44	-102.91	5.28	0.88	0.87	-1.66
2,438.00	2.73	282.62	2,435.03	5.29	-107.63	6.17	0.48	-0.41	4.77
2,532.00	2.51	284.29	2,528.93	6.28	-111.81	7.20	0.25	-0.23	1.78
2,626.00	2.29	290.09	2,622.85	7.44	-115.57	8.39	0.35	-0.23	6.17
2,721.00	2.68	286.06	2,717.76	8.70	-119.48	9.68	0.45	0.41	-4.24
2,815.00	4.00	287.01	2,811.60	10.27	-124.73	11.29	1.41	1.40	1.01
2,910.00	2.77	290.09	2,906.43	12.03	-130.06	13.10	1.31	-1.29	3.24
3,004.00	1.98	298.62	3,000.35	13.59	-133.61	14.68	0.92	-0.84	9.07
3,099.00	1.93	272.07	3,095.30	14.43	-136.65	15.55	0.95	-0.05	-27.95
3,193.00	2.29	268.82	3,189.23	14.45	-140.11	15.60	0.40	0.38	-3.46
3,288.00	1.85	275.85	3,284.17	14.57	-143.54	15.74	0.53	-0.46	7.40
3,382.00	2.33	268.65	3,378.11	14.68	-146.96	15.88	0.58	0.51	-7.66
3,476.00	4.84	254.58	3,471.92	13.58	-152.69	14.83	2.81	2.67	-14.97
3,570.00	5.76	254.58	3,565.52	11.27	-161.06	12.59	0.98	0.98	0.00
3,665.00	5.36	256.25	3,660.07	8.95	-169.97	10.34	0.45	-0.42	1.76
3,759.00	4.53	260.65	3,753.72	7.30	-177.89	8.76	0.97	-0.88	4.68
3,853.00	4.09	257.04	3,847.45	5.94	-184.82	7.46	0.55	-0.47	-3.84
3,948.00	3.43	256.08	3,942.25	4.50	-190.88	6.07	0.70	-0.69	-1.01
4,042.00	3.34	266.27	4,036.09	3.65	-196.34	5.26	0.65	-0.10	10.84
4,136.00	3.34	268.56	4,129.93	3.40	-201.81	5.05	0.14	0.00	2.44
4,231.00	2.81	268.56	4,224.79	3.27	-206.91	4.97	0.56	-0.56	0.00
4,325.00	3.91	274.97	4,318.63	3.49	-212.41	5.23	1.23	1.17	6.82
4,419.00	5.01	278.23	4,412.34	4.36	-219.66	6.16	1.20	1.17	3.47
4,513.00	4.44	276.91	4,506.02	5.38	-227.33	7.25	0.62	-0.61	-1.40
4,608.00	4.00	280.42	4,600.76	6.42	-234.24	8.34	0.54	-0.46	3.69
4,797.00	3.21	273.13	4,789.39	7.90	-246.01	9.92	0.48	-0.42	-3.86

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Well: #508H
Wellbore: Aim MWD Surveys
Design: Aim MWD Surveys

Local Co-ordinate Reference: Site Dagger State Com 508H
TVD Reference: 3812'GL+25'KB @ 3837.00usft (H&P 262)
MD Reference: 3812'GL+25'KB @ 3837.00usft (H&P 262)
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)	
4,891.00	3.16	277.79	4,883.24	8.40	-251.21	10.46	0.28	-0.05	4.96	
4,986.00	2.81	279.10	4,978.11	9.12	-256.10	11.22	0.38	-0.37	1.38	
5,080.00	2.55	276.73	5,072.01	9.73	-260.45	11.87	0.30	-0.28	-2.52	
5,175.00	1.93	272.51	5,166.94	10.05	-264.15	12.22	0.67	-0.65	-4.44	
5,268.00	1.63	277.43	5,259.89	10.29	-267.02	12.48	0.36	-0.32	5.29	
5,363.00	1.80	283.85	5,354.85	10.82	-269.81	13.03	0.27	0.18	6.76	
5,457.00	4.26	256.69	5,448.72	10.37	-274.65	12.62	2.96	2.62	-28.89	
5,552.00	4.40	256.17	5,543.45	8.69	-281.62	11.00	0.15	0.15	-0.55	
5,646.00	4.18	257.31	5,637.18	7.07	-288.46	9.44	0.25	-0.23	1.21	
5,741.00	3.69	257.31	5,731.96	5.64	-294.82	8.06	0.52	-0.52	0.00	
5,835.00	3.25	257.31	5,825.78	4.39	-300.37	6.85	0.47	-0.47	0.00	
5,930.00	3.08	258.63	5,920.64	3.30	-305.50	5.80	0.19	-0.18	1.39	
6,024.00	3.12	256.43	6,014.50	2.20	-310.46	4.74	0.13	0.04	-2.34	
6,119.00	3.03	254.23	6,109.37	0.91	-315.39	3.50	0.16	-0.09	-2.32	
6,213.00	2.77	255.73	6,203.25	-0.33	-319.98	2.30	0.29	-0.28	1.60	
6,308.00	2.86	253.44	6,298.13	-1.57	-324.48	1.09	0.15	0.09	-2.41	
6,402.00	2.73	258.71	6,392.02	-2.67	-328.92	0.02	0.31	-0.14	5.61	
6,497.00	2.81	255.02	6,486.91	-3.72	-333.39	-0.98	0.21	0.08	-3.88	
6,591.00	2.51	254.67	6,580.81	-4.86	-337.60	-2.09	0.32	-0.32	-0.37	
6,686.00	2.15	256.43	6,675.73	-5.83	-341.34	-3.03	0.39	-0.38	1.85	
6,780.00	3.25	264.60	6,769.62	-6.49	-345.71	-3.66	1.24	1.17	8.69	
6,874.00	3.52	267.85	6,863.46	-6.85	-351.24	-3.97	0.35	0.29	3.46	
6,969.00	3.34	271.55	6,958.29	-6.89	-356.93	-3.96	0.30	-0.19	3.89	
7,063.00	3.30	267.59	7,052.13	-6.92	-362.37	-3.95	0.25	-0.04	-4.21	
7,158.00	3.03	264.25	7,146.99	-7.29	-367.60	-4.28	0.34	-0.28	-3.52	
7,252.00	2.95	265.31	7,240.86	-7.74	-372.48	-4.68	0.10	-0.09	1.13	
7,347.00	2.37	266.01	7,335.76	-8.07	-376.87	-4.98	0.61	-0.61	0.74	
7,441.00	2.37	266.71	7,429.67	-8.32	-380.75	-5.20	0.03	0.00	0.74	
7,535.00	1.85	267.85	7,523.61	-8.49	-384.21	-5.34	0.55	-0.55	1.21	
7,630.00	2.51	264.08	7,618.54	-8.76	-387.81	-5.58	0.71	0.69	-3.97	
7,724.00	2.81	267.33	7,712.44	-9.08	-392.16	-5.86	0.36	0.32	3.46	
7,819.00	2.42	267.15	7,807.34	-9.29	-396.49	-6.04	0.41	-0.41	-0.19	
7,913.00	2.15	270.32	7,901.27	-9.38	-400.24	-6.10	0.32	-0.29	3.37	
8,008.00	1.76	266.45	7,996.21	-9.46	-403.47	-6.15	0.43	-0.41	-4.07	
8,103.00	1.58	267.06	8,091.17	-9.62	-406.24	-6.28	0.19	-0.19	0.64	
8,197.00	1.54	271.37	8,185.14	-9.65	-408.79	-6.30	0.13	-0.04	4.59	
8,292.00	1.58	259.33	8,280.10	-9.86	-411.36	-6.49	0.35	0.04	-12.67	
8,386.00	1.41	267.85	8,374.07	-10.15	-413.79	-6.75	0.30	-0.18	9.06	
8,481.00	1.10	252.74	8,469.05	-10.46	-415.83	-7.05	0.47	-0.33	-15.91	
8,575.00	0.88	244.04	8,563.03	-11.05	-417.34	-7.62	0.28	-0.23	-9.26	
8,670.00	2.68	271.28	8,657.98	-11.32	-420.21	-7.87	2.04	1.89	28.67	
8,764.00	2.37	269.88	8,751.89	-11.27	-424.35	-7.79	0.34	-0.33	-1.49	
8,859.00	2.42	268.91	8,846.81	-11.31	-428.32	-7.80	0.07	0.05	-1.02	

Aim Directional Services, LLC

Survey Report

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8,953.00	1.85	268.65	8,940.74	-11.39	-431.82	-7.84	0.61	-0.61	-0.28
9,048.00	2.07	269.09	9,035.69	-11.45	-435.07	-7.88	0.23	0.23	0.46
9,142.00	1.80	256.43	9,129.63	-11.82	-438.21	-8.23	0.54	-0.29	-13.47
9,237.00	1.76	261.97	9,224.59	-12.38	-441.10	-8.76	0.19	-0.04	5.83
9,331.00	1.67	247.55	9,318.55	-13.10	-443.80	-9.46	0.47	-0.10	-15.34
9,425.00	1.36	215.47	9,412.52	-14.53	-445.71	-10.88	0.95	-0.33	-34.13
9,520.00	1.63	176.54	9,507.49	-16.80	-446.28	-13.14	1.08	0.28	-40.98
9,615.00	1.76	171.09	9,602.44	-19.59	-445.97	-15.93	0.22	0.14	-5.74
9,709.00	1.85	167.48	9,696.40	-22.50	-445.42	-18.84	0.15	0.10	-3.84
9,803.00	1.76	155.27	9,790.35	-25.29	-444.49	-21.64	0.42	-0.10	-12.99
9,897.00	1.19	140.94	9,884.32	-27.36	-443.27	-23.72	0.72	-0.61	-15.24
9,992.00	0.75	17.54	9,979.31	-27.53	-442.46	-23.90	1.81	-0.46	-129.89
10,086.00	1.67	6.38	10,073.29	-25.58	-442.12	-21.96	1.01	0.98	-11.87
10,181.00	1.63	14.38	10,168.25	-22.90	-441.63	-19.28	0.25	-0.04	8.42
10,275.00	1.36	28.44	10,262.22	-20.62	-440.77	-17.01	0.48	-0.29	14.96
10,370.00	1.49	25.45	10,357.19	-18.52	-439.70	-14.91	0.16	0.14	-3.15
10,522.00	3.96	346.87	10,509.02	-11.62	-440.05	-8.01	1.94	1.63	-25.38
10,617.00	14.77	336.85	10,602.62	2.75	-445.57	6.41	11.46	11.38	-10.55
10,711.00	22.51	336.85	10,691.62	30.36	-457.37	34.11	8.23	8.23	0.00
10,805.00	25.41	338.78	10,777.51	65.71	-471.75	69.58	3.20	3.09	2.05
10,835.00	27.91	340.19	10,804.32	78.32	-476.46	82.22	8.60	8.33	4.70
10,899.00	31.82	341.42	10,859.81	108.41	-486.91	112.40	6.18	6.11	1.92
10,931.00	36.22	344.85	10,886.33	125.55	-492.08	129.58	15.00	13.75	10.72
10,962.00	41.23	348.63	10,910.51	144.42	-496.49	148.48	17.86	16.16	12.19
10,994.00	45.93	352.23	10,933.69	166.16	-500.12	170.26	16.60	14.69	11.25
11,025.00	51.74	354.08	10,954.08	189.32	-502.89	193.44	19.27	18.74	5.97
11,057.00	57.89	355.57	10,972.52	215.36	-505.23	219.49	19.59	19.22	4.66
11,088.00	63.21	356.36	10,987.75	242.27	-507.13	246.43	17.30	17.16	2.55
11,120.00	69.41	357.68	11,000.60	271.52	-508.64	275.69	19.74	19.38	4.13
11,151.00	74.77	358.82	11,010.13	301.00	-509.54	305.17	17.64	17.29	3.68
11,183.00	81.27	0.05	11,016.77	332.28	-509.84	336.45	20.66	20.31	3.84
11,214.00	85.10	0.93	11,020.45	363.05	-509.58	367.22	12.67	12.35	2.84
11,246.00	85.63	0.75	11,023.04	394.95	-509.11	399.11	1.75	1.66	-0.56
11,278.00	85.63	0.40	11,025.47	426.85	-508.79	431.01	1.09	0.00	-1.09
11,309.00	86.42	0.14	11,027.62	457.78	-508.64	461.93	2.68	2.55	-0.84
11,341.00	87.08	359.96	11,029.44	489.72	-508.61	493.88	2.14	2.06	-0.56
11,372.00	86.90	359.52	11,031.06	520.68	-508.76	524.84	1.53	-0.58	-1.42
11,466.00	88.00	359.61	11,035.25	614.58	-509.47	618.74	1.17	1.17	0.10
11,560.00	89.67	359.61	11,037.16	708.56	-510.11	712.72	1.78	1.78	0.00
11,655.00	88.88	359.44	11,038.36	803.55	-510.90	807.71	0.85	-0.83	-0.18
11,749.00	91.47	359.79	11,038.07	897.54	-511.53	901.70	2.78	2.76	0.37
11,843.00	92.84	359.70	11,034.54	991.47	-511.95	995.63	1.46	1.46	-0.10
11,938.00	91.91	0.67	11,030.60	1,086.38	-511.64	1,090.54	1.41	-0.98	1.02
12,032.00	91.21	2.51	11,028.04	1,180.31	-509.03	1,184.44	2.09	-0.74	1.96

Aim Directional Services, LLC

Survey Report

Company: Advance Energy Partners, LLC
Project: Lea County, New Mexico
Site: Dagger State Com 508H
Well: #508H
Wellbore: Aim MWD Surveys
Design: Aim MWD Surveys

Local Co-ordinate Reference: Site Dagger State Com 508H
TVD Reference: 3812'GL+25'KB @ 3837.00usft (H&P 262)
MD Reference: 3812'GL+25'KB @ 3837.00usft (H&P 262)
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)
12,127.00	89.19	1.63	11,027.71	1,275.24	-505.60	1,279.34	2.32	-2.13	-0.93
12,221.00	90.95	1.55	11,027.60	1,369.20	-502.99	1,373.28	1.87	1.87	-0.09
12,315.00	92.09	1.72	11,025.10	1,463.13	-500.31	1,467.18	1.23	1.21	0.18
12,410.00	92.13	1.37	11,021.60	1,558.03	-497.75	1,562.06	0.37	0.04	-0.37
12,504.00	91.47	2.86	11,018.65	1,651.91	-494.28	1,655.91	1.73	-0.70	1.59
12,599.00	91.65	3.74	11,016.07	1,746.72	-488.82	1,750.67	0.95	0.19	0.93
12,693.00	91.30	2.86	11,013.65	1,840.53	-483.41	1,844.43	1.01	-0.37	-0.94
12,788.00	90.55	3.13	11,012.11	1,935.39	-478.44	1,939.25	0.84	-0.79	0.28
12,882.00	89.76	3.39	11,011.86	2,029.24	-473.10	2,033.05	0.88	-0.84	0.28
12,977.00	90.29	1.63	11,011.82	2,124.14	-468.94	2,127.92	1.93	0.56	-1.85
13,072.00	90.73	1.28	11,010.97	2,219.11	-466.53	2,222.86	0.59	0.46	-0.37
13,166.00	91.25	0.76	11,009.35	2,313.08	-464.85	2,316.81	0.78	0.55	-0.55
13,260.00	89.58	0.75	11,008.67	2,407.06	-463.62	2,410.78	1.78	-1.78	-0.01
13,354.00	89.54	0.58	11,009.39	2,501.05	-462.52	2,504.76	0.19	-0.04	-0.18
13,449.00	90.51	0.58	11,009.35	2,596.05	-461.56	2,599.75	1.02	1.02	0.00
13,543.00	91.38	0.75	11,007.80	2,690.03	-460.47	2,693.71	0.94	0.93	0.18
13,638.00	90.95	0.58	11,005.86	2,785.00	-459.37	2,788.67	0.49	-0.45	-0.18
13,732.00	89.76	0.49	11,005.28	2,878.99	-458.49	2,882.66	1.27	-1.27	-0.10
13,826.00	89.98	0.32	11,005.50	2,972.99	-457.83	2,976.65	0.30	0.23	-0.18
13,921.00	90.51	0.14	11,005.09	3,067.99	-457.45	3,071.64	0.59	0.56	-0.19
14,015.00	89.98	359.96	11,004.69	3,161.99	-457.36	3,165.63	0.60	-0.56	-0.19
14,109.00	89.93	0.32	11,004.76	3,255.99	-457.13	3,259.63	0.39	-0.05	0.38
14,204.00	90.33	0.58	11,004.55	3,350.98	-456.39	3,354.61	0.50	0.42	0.27
14,298.00	90.33	0.84	11,004.00	3,444.97	-455.22	3,448.59	0.28	0.00	0.28
14,393.00	90.37	359.35	11,003.42	3,539.97	-455.07	3,543.58	1.57	0.04	-1.57
14,487.00	90.95	359.79	11,002.34	3,633.96	-455.77	3,637.58	0.77	0.62	0.47
14,582.00	90.42	359.09	11,001.21	3,728.95	-456.70	3,732.57	0.92	-0.56	-0.74
14,676.00	90.77	359.17	11,000.23	3,822.93	-458.13	3,826.56	0.38	0.37	0.09
14,771.00	89.63	359.00	10,999.90	3,917.92	-459.64	3,921.56	1.21	-1.20	-0.18
14,865.00	90.02	359.00	11,000.18	4,011.90	-461.28	4,015.55	0.41	0.41	0.00
14,959.00	90.90	359.00	10,999.43	4,105.88	-462.93	4,109.54	0.94	0.94	0.00
15,053.00	90.33	359.96	10,998.42	4,199.87	-463.78	4,203.54	1.19	-0.61	1.02
15,148.00	90.59	0.40	10,997.66	4,294.87	-463.48	4,298.53	0.54	0.27	0.46
15,242.00	89.36	0.67	10,997.70	4,388.86	-462.60	4,392.51	1.34	-1.31	0.29
15,336.00	89.71	0.75	10,998.46	4,482.85	-461.44	4,486.49	0.38	0.37	0.09
15,430.00	89.32	0.76	10,999.26	4,576.84	-460.20	4,580.46	0.42	-0.41	0.01
15,524.00	88.62	358.29	11,000.95	4,670.81	-460.98	4,674.44	2.73	-0.74	-2.63
15,618.00	89.14	357.68	11,002.79	4,764.74	-464.28	4,768.39	0.85	0.55	-0.65
15,713.00	89.19	357.33	11,004.17	4,859.64	-468.42	4,863.32	0.37	0.05	-0.37
15,807.00	89.05	357.68	11,005.61	4,953.54	-472.51	4,957.25	0.40	-0.15	0.37
15,902.00	89.93	358.29	11,006.46	5,048.47	-475.85	5,052.21	1.13	0.93	0.64
15,996.00	89.36	358.38	11,007.04	5,142.43	-478.58	5,146.18	0.61	-0.61	0.10
16,090.00	89.19	358.91	11,008.23	5,236.40	-480.80	5,240.17	0.59	-0.18	0.56

Aim Directional Services, LLC

Survey Report

Company:	Advance Energy Partners, LLC	Local Co-ordinate Reference:	Site Dagger State Com 508H
Project:	Lea County, New Mexico	TVD Reference:	3812'GL+25'KB @ 3837.00usft (H&P 262)
Site:	Dagger State Com 508H	MD Reference:	3812'GL+25'KB @ 3837.00usft (H&P 262)
Well:	#508H	North Reference:	Grid
Wellbore:	Aim MWD Surveys	Survey Calculation Method:	Minimum Curvature
Design:	Aim MWD Surveys	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)
16,184.00	90.42	359.00	11,008.55	5,330.38	-482.52	5,334.16	1.31	1.31	0.10
16,279.00	91.60	359.35	11,006.88	5,425.35	-483.88	5,429.14	1.30	1.24	0.37
16,373.00	93.05	0.58	11,003.06	5,519.27	-483.94	5,523.06	2.02	1.54	1.31
16,467.00	90.95	0.05	10,999.78	5,613.21	-483.43	5,616.98	2.30	-2.23	-0.56
16,562.00	91.25	0.14	10,997.96	5,708.19	-483.27	5,711.96	0.33	0.32	0.09
16,656.00	91.56	359.17	10,995.65	5,802.16	-483.83	5,805.93	1.08	0.33	-1.03
16,750.00	90.73	359.61	10,993.78	5,896.13	-484.84	5,899.91	1.00	-0.88	0.47
16,845.00	89.54	359.70	10,993.55	5,991.13	-485.41	5,994.91	1.26	-1.25	0.09
16,939.00	89.54	0.14	10,994.31	6,085.13	-485.54	6,088.90	0.47	0.00	0.47
17,033.00	90.11	0.49	10,994.59	6,179.12	-485.02	6,182.89	0.71	0.61	0.37
17,127.00	88.48	0.23	10,995.75	6,273.11	-484.43	6,276.87	1.76	-1.73	-0.28
17,222.00	87.91	0.40	10,998.74	6,368.06	-483.91	6,371.82	0.63	-0.60	0.18
17,316.00	88.13	359.70	11,001.99	6,462.01	-483.83	6,465.76	0.78	0.23	-0.74
17,411.00	89.76	359.17	11,003.74	6,556.98	-484.76	6,560.74	1.80	1.72	-0.56
17,505.00	88.92	359.35	11,004.82	6,650.97	-485.98	6,654.73	0.91	-0.89	0.19
17,599.00	89.89	359.79	11,005.80	6,744.96	-486.68	6,748.72	1.13	1.03	0.47
17,694.00	89.80	0.23	11,006.06	6,839.96	-486.67	6,843.72	0.47	-0.09	0.46
17,788.00	90.99	359.52	11,005.41	6,933.95	-486.87	6,937.71	1.47	1.27	-0.76
17,883.00	91.82	359.26	11,003.08	7,028.92	-487.88	7,032.68	0.92	0.87	-0.27
17,977.00	92.22	359.52	10,999.76	7,122.85	-488.88	7,126.62	0.51	0.43	0.28
18,071.00	93.23	359.79	10,995.30	7,216.74	-489.45	7,220.52	1.11	1.07	0.29
18,166.00	93.32	0.23	10,989.87	7,311.59	-489.43	7,315.36	0.47	0.09	0.46
18,260.00	94.55	359.79	10,983.42	7,405.36	-489.42	7,409.13	1.39	1.31	-0.47
18,355.00	91.74	359.17	10,978.21	7,500.21	-490.28	7,503.98	3.03	-2.96	-0.65
18,449.00	90.90	359.17	10,976.04	7,594.17	-491.64	7,597.95	0.89	-0.89	0.00
18,543.00	87.56	358.65	10,977.30	7,688.13	-493.43	7,691.92	3.60	-3.55	-0.55
18,638.00	87.38	358.91	10,981.50	7,783.02	-495.45	7,786.82	0.33	-0.19	0.27
18,657.00	87.21	358.91	10,982.39	7,801.99	-495.81	7,805.80	0.89	-0.89	0.00
Last Aim MWD Survey									
18,721.00	87.21	358.91	10,985.51	7,865.91	-497.02	7,869.72	0.00	0.00	0.00
Projection to BHL									

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
196.00	195.99	-1.52	-0.82	First Aim MWD Survey
18,657.00	10,982.39	7,801.99	-495.81	Last Aim MWD Survey
18,721.00	10,985.51	7,865.91	-497.02	Projection to BHL