



Proposed vs. As Drilled Original Hole

Dagger State Com #802H (WT-19-084)

2019-05-19 to 2019-06-30

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

Advance Energy Partners, LLC



Dagger State Com 802H
Lea County, New Mexico
Plan 0.1



SITE DETAILS: Dagger State Com 802H

Site Centre Northing: 528187.50
Easting: 764584.50
Positional Uncertainty: 0.00
Convergence: 0.39
Local North: Grid



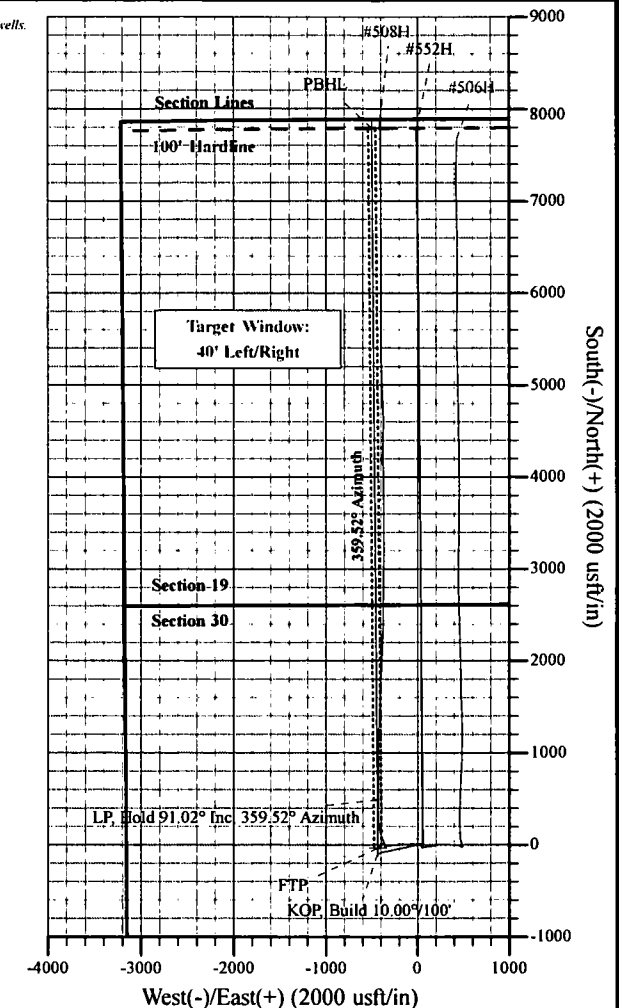
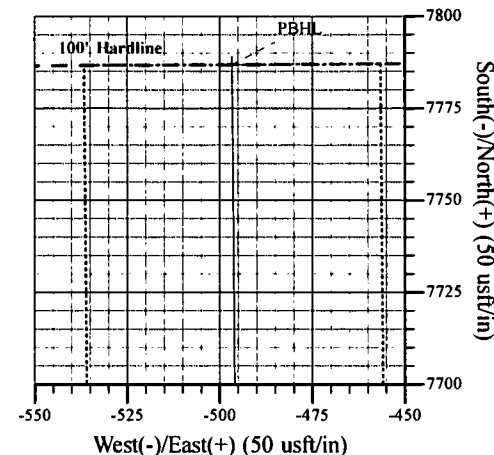
Azimuths to Grid North
True North: -0.39°
Magnetic North: 6.28°
Magnetic Field
Strength: 48124.9nT
Dip Angle: 60.24°
Date: 5/8/2019
Model: MVHD

Magnetic North: 6.28° 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:
3812'GL+26.5'KB @ 3838.50usft

*Note - Aim is not responsible for any collision issues against unknown offset wells.

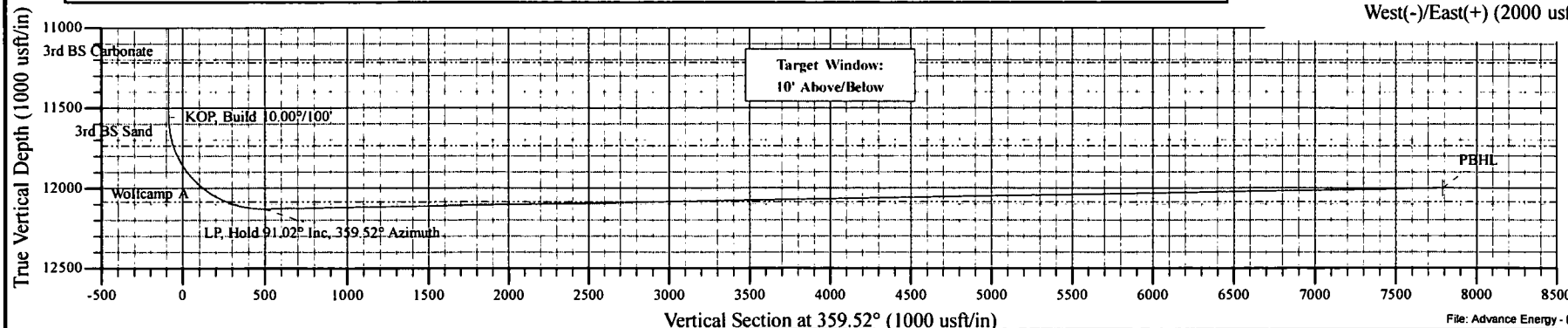


SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	1450.00	0.00	0.00	1450.00	0.00	0.00	0.00	0.00	0.00	Build 1.00°/100'
3	1950.00	5.00	258.21	1949.37	-4.46	-21.34	1.00	258.21	-4.28	Hold 5.0° Inc, 258.21° Azimuth
4	6501.52	5.00	258.21	6483.56	-85.54	-409.66	0.00	0.00	-82.11	Drop 1.00°/100'
5	7001.52	0.00	0.00	6982.93	-90.00	-431.00	1.00	180.00	-86.39	Hold Vertical
6	11575.72	0.00	0.00	11557.13	-90.00	-431.00	0.00	0.00	-86.39	KOP, Build 10.00°/100'
7	12485.93	91.02	359.52	12130.00	493.15	-435.86	10.00	359.52	496.78	LP, Hold 91.02° Inc, 359.52° Azimuth
8	19781.09	91.02	359.52	12000.00	7786.90	-496.60	0.00	0.00	7790.79	PBHL

DESIGN TARGET DETAILS

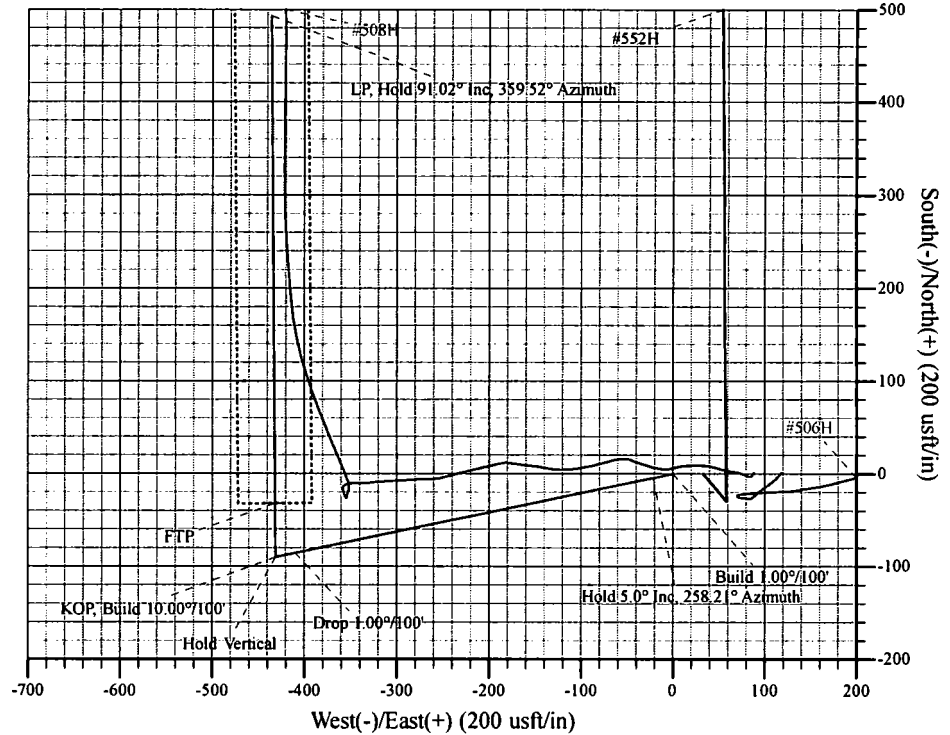
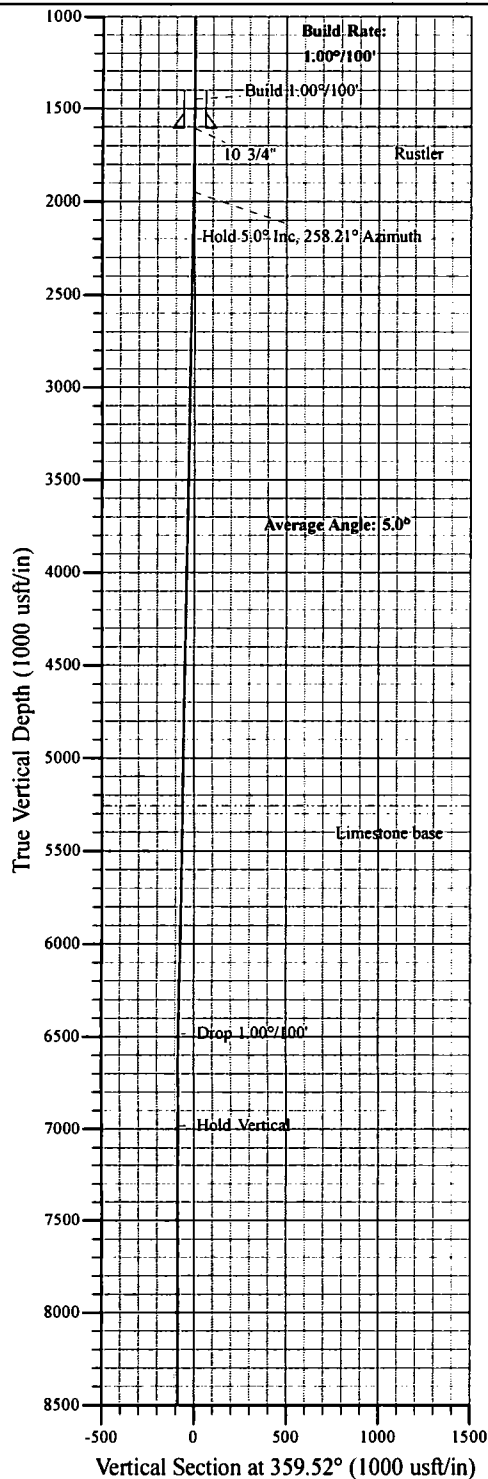
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
FTP (Dagger802H)	0.00	-32.10	-431.70	528155.40	764152.80	32° 26' 59.612 N	103° 36' 39.620 W
PBHL (Dagger802H)	12000.00	7786.90	-496.60	535974.40	764087.90	32° 28' 16.984 N	103° 36' 39.760 W



Advance Energy Partners, LLC



Dagger State Com 802H
Lea County, New Mexico
Plan 0.1



Azimuths to Grid North
True North: -0.39°
Magnetic North: 6.28°

Magnetic Field
Strength: 48124.9nT
Dip Angle: 60.24°
Date: 5/8/2019
Model: MVHD

Magnetic North: 6.28° to Grid North

CASING DETAILS

TVD	MD	Name
1605.00	1605.02	10 3/4"
10650.00	10668.59	7 5/8"

SLOTS

Slot Name	+N/-S	+E/-W
506H	1.20	118.30
508H	1.00	88.30
552H	0.20	33.00
802H	0.00	0.00

SITE DETAILS: Dagger State Com 802H

Site Centre Northing: 528187.50
Easting: 764584.50

Positional Uncertainty: 0.00
Convergence: 0.39
Local North: Grid

Depth Reference:
3812'GL+26.5'KB @ 3838.50usft

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

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DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
FTP (Dagger802H)	0.00	-32.10	-431.70	528155.40	764152.80	32° 26' 59.612 N	103° 36' 39.620 W
PBHL (Dagger802H)	12000.00	7786.90	-496.60	535974.40	764087.90	32° 28' 16.984 N	103° 36' 39.760 W

Drawn By: IG

Date Created: 5/8/2019

Date Revised: 5/8/2019

File: Advance Energy - Dagger State Com #802H Plan 0.1 Surface wpc

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	V/Sect	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	1450.00	0.00	0.00	1450.00	0.00	0.00	0.00	0.00	0.00	Build 1.00°/100'
3	1950.00	5.00	258.21	1949.37	-4.46	-21.34	1.00	258.21	-4.28	Hold 5.0° Inc, 258.21° Azimuth
4	6501.52	5.00	258.21	6483.56	-85.54	-409.66	0.00	0.00	-82.11	Drop 1.00°/100'
5	7001.52	0.00	0.00	6982.93	-90.00	-431.00	1.00	180.00	-86.39	Hold Vertical
6	11575.72	0.00	0.00	11557.13	-90.00	-431.00	0.00	0.00	-86.39	KOP, Build 10.00°/100'
7	12485.93	91.02	359.52	12130.00	493.15	-435.86	10.00	359.52	496.78	LP, Hold 91.02° Inc, 359.52° Azimuth
8	19781.09	91.02	359.52	12000.00	7786.90	-496.60	0.00	0.00	7790.79	PBHL

Aim Directional Services, LLC

Survey Report

Company: Advance Energy Partners, LLC
Project: Lea County, New Mexico
Site: Dagger State Com 802H
Well: #802H
Wellbore: Lateral 1r0
Design: Plan 0.1

Local Co-ordinate Reference: Site Dagger State Com 802H
TVD Reference: 3812'GL+26.5'KB @ 3838.50usft
MD Reference: 3812'GL+26.5'KB @ 3838.50usft
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
Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Site Dagger State Com 802H

Site Position:	Northing: 528,187.50 usft	Latitude: 32° 26' 59.901 N
From: Map	Easting: 764,584.50 usft	Longitude: 103° 36' 34.579 W
Position Uncertainty: 0.00 usft	Slot Radius: 13-3/16 "	Grid Convergence: 0.39 °

Well #802H - Slot 802H

Well Position	+N/-S 0.00 usft	Northing: 528,187.50 usft	Latitude: 32° 26' 59.901 N
	+E/-W 0.00 usft	Easting: 764,584.50 usft	Longitude: 103° 36' 34.579 W
Position Uncertainty 0.00 usft		Wellhead Elevation: usft	Ground Level: 3,812.00 usft

Wellbore Lateral 1r0

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	5/8/2019	6.67	60.24	48,124.86409409

Design Plan 0.1

Audit Notes:

Version: **Phase:** PROTOTYPE **Tie On Depth:** 0.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	359.52

Survey Tool Program Date 5/8/2019

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	19,781.09	Plan 0.1 (Lateral 1r0)	B001Mb_MWD+HRGM	OWSG MWD + HRGM

Planned 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
FTP (Dagger802H)									
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00

Aim Directional Services, LLC

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Well: #802H
Wellbore: Lateral 1r0
Design: Plan 0.1

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MD Reference: 3812'GL+26.5'KB @ 3838.50usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14 Single User Db

Planned 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)
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,450.00	0.00	0.00	1,450.00	0.00	0.00	0.00	0.00	0.00	0.00
Build 1.00°/100'									
1,500.00	0.50	258.21	1,500.00	-0.04	-0.21	-0.04	1.00	1.00	0.00
1,597.02	1.47	258.21	1,597.00	-0.39	-1.85	-0.37	1.00	1.00	0.00
Rustler									
1,600.00	1.50	258.21	1,599.98	-0.40	-1.92	-0.39	1.00	1.00	0.00
1,605.02	1.55	258.21	1,605.00	-0.43	-2.05	-0.41	1.00	1.00	0.00
10 3/4"									
1,700.00	2.50	258.21	1,699.92	-1.11	-5.34	-1.07	1.00	1.00	0.00
1,800.00	3.50	258.21	1,799.78	-2.18	-10.46	-2.10	1.00	1.00	0.00
1,900.00	4.50	258.21	1,899.54	-3.61	-17.29	-3.47	1.00	1.00	0.00
1,950.00	5.00	258.21	1,949.37	-4.46	-21.34	-4.28	1.00	1.00	0.00
Hold 5.0° Inc, 258.21° Azimuth									
2,000.00	5.00	258.21	1,999.18	-5.35	-25.61	-5.13	0.00	0.00	0.00
2,100.00	5.00	258.21	2,098.79	-7.13	-34.14	-6.84	0.00	0.00	0.00
2,200.00	5.00	258.21	2,198.41	-8.91	-42.67	-8.55	0.00	0.00	0.00
2,300.00	5.00	258.21	2,298.03	-10.69	-51.20	-10.26	0.00	0.00	0.00
2,400.00	5.00	258.21	2,397.65	-12.47	-59.73	-11.97	0.00	0.00	0.00
2,500.00	5.00	258.21	2,497.27	-14.26	-68.27	-13.68	0.00	0.00	0.00
2,600.00	5.00	258.21	2,596.89	-16.04	-76.80	-15.39	0.00	0.00	0.00
2,700.00	5.00	258.21	2,696.51	-17.82	-85.33	-17.10	0.00	0.00	0.00
2,800.00	5.00	258.21	2,796.13	-19.60	-93.86	-18.81	0.00	0.00	0.00
2,900.00	5.00	258.21	2,895.75	-21.38	-102.39	-20.52	0.00	0.00	0.00
3,000.00	5.00	258.21	2,995.37	-23.16	-110.92	-22.23	0.00	0.00	0.00
3,100.00	5.00	258.21	3,094.99	-24.94	-119.46	-23.94	0.00	0.00	0.00
3,200.00	5.00	258.21	3,194.61	-26.73	-127.99	-25.65	0.00	0.00	0.00
3,300.00	5.00	258.21	3,294.23	-28.51	-136.52	-27.36	0.00	0.00	0.00
3,400.00	5.00	258.21	3,393.85	-30.29	-145.05	-29.07	0.00	0.00	0.00
3,500.00	5.00	258.21	3,493.47	-32.07	-153.58	-30.78	0.00	0.00	0.00
3,600.00	5.00	258.21	3,593.09	-33.85	-162.11	-32.49	0.00	0.00	0.00
3,700.00	5.00	258.21	3,692.71	-35.63	-170.64	-34.20	0.00	0.00	0.00
3,800.00	5.00	258.21	3,792.33	-37.41	-179.18	-35.91	0.00	0.00	0.00
3,900.00	5.00	258.21	3,891.95	-39.20	-187.71	-37.62	0.00	0.00	0.00
4,000.00	5.00	258.21	3,991.56	-40.98	-196.24	-39.33	0.00	0.00	0.00
4,100.00	5.00	258.21	4,091.18	-42.76	-204.77	-41.04	0.00	0.00	0.00
4,200.00	5.00	258.21	4,190.80	-44.54	-213.30	-42.75	0.00	0.00	0.00
4,300.00	5.00	258.21	4,290.42	-46.32	-221.83	-44.46	0.00	0.00	0.00
4,400.00	5.00	258.21	4,390.04	-48.10	-230.37	-46.17	0.00	0.00	0.00
4,500.00	5.00	258.21	4,489.66	-49.89	-238.90	-47.88	0.00	0.00	0.00

Aim Directional Services, LLC

Survey Report

Company:	Advance Energy Partners, LLC	Local Co-ordinate Reference:	Site Dagger State Com 802H
Project:	Lea County, New Mexico	TVD Reference:	3812'GL+26.5'KB @ 3838.50usft
Site:	Dagger State Com 802H	MD Reference:	3812'GL+26.5'KB @ 3838.50usft
Well:	#802H	North Reference:	Grid
Wellbore:	Lateral 1r0	Survey Calculation Method:	Minimum Curvature
Design:	Plan 0.1	Database:	EDM 5000.14 Single User Db

Planned 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)
4,600.00	5.00	258.21	4,589.28	-51.67	-247.43	-49.59	0.00	0.00	0.00
4,700.00	5.00	258.21	4,688.90	-53.45	-255.96	-51.30	0.00	0.00	0.00
4,800.00	5.00	258.21	4,788.52	-55.23	-264.49	-53.01	0.00	0.00	0.00
4,900.00	5.00	258.21	4,888.14	-57.01	-273.02	-54.72	0.00	0.00	0.00
5,000.00	5.00	258.21	4,987.76	-58.79	-281.55	-56.43	0.00	0.00	0.00
5,100.00	5.00	258.21	5,087.38	-60.57	-290.09	-58.14	0.00	0.00	0.00
5,200.00	5.00	258.21	5,187.00	-62.36	-298.62	-59.85	0.00	0.00	0.00
5,270.27	5.00	258.21	5,257.00	-63.61	-304.61	-61.05	0.00	0.00	0.00
Limestone base									
5,300.00	5.00	258.21	5,286.62	-64.14	-307.15	-61.56	0.00	0.00	0.00
5,400.00	5.00	258.21	5,386.24	-65.92	-315.68	-63.27	0.00	0.00	0.00
5,500.00	5.00	258.21	5,485.86	-67.70	-324.21	-64.98	0.00	0.00	0.00
5,600.00	5.00	258.21	5,585.48	-69.48	-332.74	-66.69	0.00	0.00	0.00
5,700.00	5.00	258.21	5,685.10	-71.26	-341.28	-68.40	0.00	0.00	0.00
5,800.00	5.00	258.21	5,784.72	-73.05	-349.81	-70.11	0.00	0.00	0.00
5,900.00	5.00	258.21	5,884.33	-74.83	-358.34	-71.82	0.00	0.00	0.00
6,000.00	5.00	258.21	5,983.95	-76.61	-366.87	-73.53	0.00	0.00	0.00
6,100.00	5.00	258.21	6,083.57	-78.39	-375.40	-75.24	0.00	0.00	0.00
6,200.00	5.00	258.21	6,183.19	-80.17	-383.93	-76.95	0.00	0.00	0.00
6,300.00	5.00	258.21	6,282.81	-81.95	-392.46	-78.66	0.00	0.00	0.00
6,400.00	5.00	258.21	6,382.43	-83.73	-401.00	-80.37	0.00	0.00	0.00
6,501.52	5.00	258.21	6,483.56	-85.54	-409.66	-82.11	0.00	0.00	0.00
Drop 1.00°/100'									
6,600.00	4.02	258.21	6,581.74	-87.13	-417.23	-83.63	1.00	-1.00	0.00
6,700.00	3.02	258.21	6,681.55	-88.38	-423.24	-84.83	1.00	-1.00	0.00
6,800.00	2.02	258.21	6,781.45	-89.28	-427.53	-85.69	1.00	-1.00	0.00
6,900.00	1.02	258.21	6,881.42	-89.82	-430.12	-86.21	1.00	-1.00	0.00
7,001.52	0.00	0.00	6,982.93	-90.00	-431.00	-86.39	1.00	-1.00	0.00
Hold Vertical									
7,100.00	0.00	0.00	7,081.41	-90.00	-431.00	-86.39	0.00	0.00	0.00
7,200.00	0.00	0.00	7,181.41	-90.00	-431.00	-86.39	0.00	0.00	0.00
7,300.00	0.00	0.00	7,281.41	-90.00	-431.00	-86.39	0.00	0.00	0.00
7,400.00	0.00	0.00	7,381.41	-90.00	-431.00	-86.39	0.00	0.00	0.00
7,500.00	0.00	0.00	7,481.41	-90.00	-431.00	-86.39	0.00	0.00	0.00
7,600.00	0.00	0.00	7,581.41	-90.00	-431.00	-86.39	0.00	0.00	0.00
7,700.00	0.00	0.00	7,681.41	-90.00	-431.00	-86.39	0.00	0.00	0.00
7,800.00	0.00	0.00	7,781.41	-90.00	-431.00	-86.39	0.00	0.00	0.00
7,900.00	0.00	0.00	7,881.41	-90.00	-431.00	-86.39	0.00	0.00	0.00
8,000.00	0.00	0.00	7,981.41	-90.00	-431.00	-86.39	0.00	0.00	0.00
8,100.00	0.00	0.00	8,081.41	-90.00	-431.00	-86.39	0.00	0.00	0.00
8,200.00	0.00	0.00	8,181.41	-90.00	-431.00	-86.39	0.00	0.00	0.00
8,300.00	0.00	0.00	8,281.41	-90.00	-431.00	-86.39	0.00	0.00	0.00
8,400.00	0.00	0.00	8,381.41	-90.00	-431.00	-86.39	0.00	0.00	0.00

Aim Directional Services, LLC

Survey Report

Company:	Advance Energy Partners, LLC	Local Co-ordinate Reference:	Site Dagger State Com 802H
Project:	Lea County, New Mexico	TVD Reference:	3812'GL+26.5'KB @ 3838.50usft
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Design:	Plan 0.1	Database:	EDM 5000.14 Single User Db

Planned 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)
8,500.00	0.00	0.00	8,481.41	-90.00	-431.00	-86.39	0.00	0.00	0.00
8,575.59	0.00	0.00	8,557.00	-90.00	-431.00	-86.39	0.00	0.00	0.00
Lower Brushy									
8,600.00	0.00	0.00	8,581.41	-90.00	-431.00	-86.39	0.00	0.00	0.00
8,700.00	0.00	0.00	8,681.41	-90.00	-431.00	-86.39	0.00	0.00	0.00
8,800.00	0.00	0.00	8,781.41	-90.00	-431.00	-86.39	0.00	0.00	0.00
8,900.00	0.00	0.00	8,881.41	-90.00	-431.00	-86.39	0.00	0.00	0.00
9,000.00	0.00	0.00	8,981.41	-90.00	-431.00	-86.39	0.00	0.00	0.00
9,047.59	0.00	0.00	9,029.00	-90.00	-431.00	-86.39	0.00	0.00	0.00
Avalon									
9,100.00	0.00	0.00	9,081.41	-90.00	-431.00	-86.39	0.00	0.00	0.00
9,200.00	0.00	0.00	9,181.41	-90.00	-431.00	-86.39	0.00	0.00	0.00
9,300.00	0.00	0.00	9,281.41	-90.00	-431.00	-86.39	0.00	0.00	0.00
9,400.00	0.00	0.00	9,381.41	-90.00	-431.00	-86.39	0.00	0.00	0.00
9,500.00	0.00	0.00	9,481.41	-90.00	-431.00	-86.39	0.00	0.00	0.00
9,600.00	0.00	0.00	9,581.41	-90.00	-431.00	-86.39	0.00	0.00	0.00
9,700.00	0.00	0.00	9,681.41	-90.00	-431.00	-86.39	0.00	0.00	0.00
9,800.00	0.00	0.00	9,781.41	-90.00	-431.00	-86.39	0.00	0.00	0.00
9,900.00	0.00	0.00	9,881.41	-90.00	-431.00	-86.39	0.00	0.00	0.00
10,000.00	0.00	0.00	9,981.41	-90.00	-431.00	-86.39	0.00	0.00	0.00
10,042.59	0.00	0.00	10,024.00	-90.00	-431.00	-86.39	0.00	0.00	0.00
1st BS Sand									
10,100.00	0.00	0.00	10,081.41	-90.00	-431.00	-86.39	0.00	0.00	0.00
10,200.00	0.00	0.00	10,181.41	-90.00	-431.00	-86.39	0.00	0.00	0.00
10,300.00	0.00	0.00	10,281.41	-90.00	-431.00	-86.39	0.00	0.00	0.00
10,400.00	0.00	0.00	10,381.41	-90.00	-431.00	-86.39	0.00	0.00	0.00
10,500.00	0.00	0.00	10,481.41	-90.00	-431.00	-86.39	0.00	0.00	0.00
10,600.00	0.00	0.00	10,581.41	-90.00	-431.00	-86.39	0.00	0.00	0.00
10,603.59	0.00	0.00	10,585.00	-90.00	-431.00	-86.39	0.00	0.00	0.00
2nd BS Sand									
10,668.59	0.00	0.00	10,650.00	-90.00	-431.00	-86.39	0.00	0.00	0.00
7 5/8"									
10,700.00	0.00	0.00	10,681.41	-90.00	-431.00	-86.39	0.00	0.00	0.00
10,800.00	0.00	0.00	10,781.41	-90.00	-431.00	-86.39	0.00	0.00	0.00
10,900.00	0.00	0.00	10,881.41	-90.00	-431.00	-86.39	0.00	0.00	0.00
11,000.00	0.00	0.00	10,981.41	-90.00	-431.00	-86.39	0.00	0.00	0.00
11,100.00	0.00	0.00	11,081.41	-90.00	-431.00	-86.39	0.00	0.00	0.00
11,200.00	0.00	0.00	11,181.41	-90.00	-431.00	-86.39	0.00	0.00	0.00
11,235.59	0.00	0.00	11,217.00	-90.00	-431.00	-86.39	0.00	0.00	0.00
3rd BS Carbonate									
11,300.00	0.00	0.00	11,281.41	-90.00	-431.00	-86.39	0.00	0.00	0.00
11,400.00	0.00	0.00	11,381.41	-90.00	-431.00	-86.39	0.00	0.00	0.00
11,500.00	0.00	0.00	11,481.41	-90.00	-431.00	-86.39	0.00	0.00	0.00
11,575.72	0.00	0.00	11,557.13	-90.00	-431.00	-86.39	0.00	0.00	0.00
KOP, Build 10.00°/100'									

Aim Directional Services, LLC

Survey Report

Company: Advance Energy Partners, LLC
Project: Lea County, New Mexico
Site: Dagger State Com 802H
Well: #802H
Wellbore: Lateral 1r0
Design: Plan 0.1

Local Co-ordinate Reference: Site Dagger State Com 802H
TVD Reference: 3812'GL+26.5'KB @ 3838.50usft
MD Reference: 3812'GL+26.5'KB @ 3838.50usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14 Single User Db

Planned 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)
11,600.00	2.43	359.52	11,581.40	-89.49	-431.00	-85.87	10.00	10.00	0.00
11,650.00	7.43	359.52	11,631.20	-85.19	-431.04	-81.58	10.00	10.00	0.00
11,700.00	12.43	359.52	11,680.44	-76.57	-431.11	-72.96	10.00	10.00	0.00
11,750.00	17.43	359.52	11,728.74	-63.70	-431.22	-60.08	10.00	10.00	0.00
11,758.68	18.30	359.52	11,737.00	-61.04	-431.24	-57.42	10.00	10.00	0.00
3rd BS Sand									
11,800.00	22.43	359.52	11,775.73	-46.66	-431.36	-43.05	10.00	10.00	0.00
11,850.00	27.43	359.52	11,821.06	-25.60	-431.54	-21.98	10.00	10.00	0.00
11,900.00	32.43	359.52	11,864.37	-0.66	-431.74	2.96	10.00	10.00	0.00
11,950.00	37.43	359.52	11,905.35	27.96	-431.98	31.58	10.00	10.00	0.00
12,000.00	42.43	359.52	11,943.68	60.04	-432.25	63.66	10.00	10.00	0.00
12,050.00	47.43	359.52	11,979.07	95.34	-432.54	98.96	10.00	10.00	0.00
12,100.00	52.43	359.52	12,011.25	133.59	-432.86	137.21	10.00	10.00	0.00
12,150.00	57.43	359.52	12,039.97	174.49	-433.20	178.12	10.00	10.00	0.00
12,200.00	62.43	359.52	12,065.02	217.75	-433.56	221.37	10.00	10.00	0.00
12,250.00	67.43	359.52	12,086.20	263.02	-433.94	266.65	10.00	10.00	0.00
12,252.10	67.64	359.52	12,087.00	264.96	-433.96	268.58	10.00	10.00	0.00
Wolfcamp A									
12,300.00	72.43	359.52	12,103.35	309.97	-434.33	313.59	10.00	10.00	0.00
12,350.00	77.43	359.52	12,116.35	358.23	-434.73	361.86	10.00	10.00	0.00
12,400.00	82.43	359.52	12,125.09	407.44	-435.14	411.07	10.00	10.00	0.00
12,450.00	87.43	359.52	12,129.51	457.23	-435.56	460.86	10.00	10.00	0.00
12,485.93	91.02	359.52	12,130.00	493.15	-435.86	496.78	10.00	10.00	0.00
LP, Hold 91.02° Inc, 359.52° Azimuth									
12,500.00	91.02	359.52	12,129.75	507.22	-435.97	510.85	0.00	0.00	0.00
12,600.00	91.02	359.52	12,127.96	607.20	-436.81	610.83	0.00	0.00	0.00
12,700.00	91.02	359.52	12,126.18	707.18	-437.64	710.82	0.00	0.00	0.00
12,800.00	91.02	359.52	12,124.40	807.16	-438.47	810.80	0.00	0.00	0.00
12,900.00	91.02	359.52	12,122.62	907.14	-439.30	910.79	0.00	0.00	0.00
13,000.00	91.02	359.52	12,120.84	1,007.12	-440.14	1,010.77	0.00	0.00	0.00
13,100.00	91.02	359.52	12,119.05	1,107.10	-440.97	1,110.75	0.00	0.00	0.00
13,200.00	91.02	359.52	12,117.27	1,207.08	-441.80	1,210.74	0.00	0.00	0.00
13,300.00	91.02	359.52	12,115.49	1,307.06	-442.63	1,310.72	0.00	0.00	0.00
13,400.00	91.02	359.52	12,113.71	1,407.04	-443.47	1,410.71	0.00	0.00	0.00
13,500.00	91.02	359.52	12,111.93	1,507.02	-444.30	1,510.69	0.00	0.00	0.00
13,600.00	91.02	359.52	12,110.14	1,607.00	-445.13	1,610.68	0.00	0.00	0.00
13,700.00	91.02	359.52	12,108.36	1,706.98	-445.97	1,710.66	0.00	0.00	0.00
13,800.00	91.02	359.52	12,106.58	1,806.96	-446.80	1,810.64	0.00	0.00	0.00
13,900.00	91.02	359.52	12,104.80	1,906.94	-447.63	1,910.63	0.00	0.00	0.00
14,000.00	91.02	359.52	12,103.02	2,006.93	-448.46	2,010.61	0.00	0.00	0.00
14,100.00	91.02	359.52	12,101.24	2,106.91	-449.30	2,110.60	0.00	0.00	0.00
14,200.00	91.02	359.52	12,099.45	2,206.89	-450.13	2,210.58	0.00	0.00	0.00
14,300.00	91.02	359.52	12,097.67	2,306.87	-450.96	2,310.56	0.00	0.00	0.00
14,400.00	91.02	359.52	12,095.89	2,406.85	-451.79	2,410.55	0.00	0.00	0.00

Aim Directional Services, LLC

Survey Report

Company: Advance Energy Partners, LLC
Project: Lea County, New Mexico
Site: Dagger State Com 802H
Well: #802H
Wellbore: Lateral 1r0
Design: Plan 0.1

Local Co-ordinate Reference: Site Dagger State Com 802H
TVD Reference: 3812'GL+26.5'KB @ 3838.50usft
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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)
14,500.00	91.02	359.52	12,094.11	2,506.83	-452.63	2,510.53	0.00	0.00	0.00
14,600.00	91.02	359.52	12,092.33	2,606.81	-453.46	2,610.52	0.00	0.00	0.00
14,700.00	91.02	359.52	12,090.54	2,706.79	-454.29	2,710.50	0.00	0.00	0.00
14,800.00	91.02	359.52	12,088.76	2,806.77	-455.12	2,810.49	0.00	0.00	0.00
14,900.00	91.02	359.52	12,086.98	2,906.75	-455.96	2,910.47	0.00	0.00	0.00
15,000.00	91.02	359.52	12,085.20	3,006.73	-456.79	3,010.45	0.00	0.00	0.00
15,100.00	91.02	359.52	12,083.42	3,106.71	-457.62	3,110.44	0.00	0.00	0.00
15,200.00	91.02	359.52	12,081.63	3,206.69	-458.46	3,210.42	0.00	0.00	0.00
15,300.00	91.02	359.52	12,079.85	3,306.67	-459.29	3,310.41	0.00	0.00	0.00
15,400.00	91.02	359.52	12,078.07	3,406.65	-460.12	3,410.39	0.00	0.00	0.00
15,500.00	91.02	359.52	12,076.29	3,506.64	-460.95	3,510.37	0.00	0.00	0.00
15,600.00	91.02	359.52	12,074.51	3,606.62	-461.79	3,610.36	0.00	0.00	0.00
15,700.00	91.02	359.52	12,072.72	3,706.60	-462.62	3,710.34	0.00	0.00	0.00
15,800.00	91.02	359.52	12,070.94	3,806.58	-463.45	3,810.33	0.00	0.00	0.00
15,900.00	91.02	359.52	12,069.16	3,906.56	-464.28	3,910.31	0.00	0.00	0.00
16,000.00	91.02	359.52	12,067.38	4,006.54	-465.12	4,010.29	0.00	0.00	0.00
16,100.00	91.02	359.52	12,065.60	4,106.52	-465.95	4,110.28	0.00	0.00	0.00
16,200.00	91.02	359.52	12,063.81	4,206.50	-466.78	4,210.26	0.00	0.00	0.00
16,300.00	91.02	359.52	12,062.03	4,306.48	-467.61	4,310.25	0.00	0.00	0.00
16,400.00	91.02	359.52	12,060.25	4,406.46	-468.45	4,410.23	0.00	0.00	0.00
16,500.00	91.02	359.52	12,058.47	4,506.44	-469.28	4,510.22	0.00	0.00	0.00
16,600.00	91.02	359.52	12,056.69	4,606.42	-470.11	4,610.20	0.00	0.00	0.00
16,700.00	91.02	359.52	12,054.90	4,706.40	-470.95	4,710.18	0.00	0.00	0.00
16,800.00	91.02	359.52	12,053.12	4,806.38	-471.78	4,810.17	0.00	0.00	0.00
16,900.00	91.02	359.52	12,051.34	4,906.36	-472.61	4,910.15	0.00	0.00	0.00
17,000.00	91.02	359.52	12,049.56	5,006.35	-473.44	5,010.14	0.00	0.00	0.00
17,100.00	91.02	359.52	12,047.78	5,106.33	-474.28	5,110.12	0.00	0.00	0.00
17,200.00	91.02	359.52	12,045.99	5,206.31	-475.11	5,210.10	0.00	0.00	0.00
17,300.00	91.02	359.52	12,044.21	5,306.29	-475.94	5,310.09	0.00	0.00	0.00
17,400.00	91.02	359.52	12,042.43	5,406.27	-476.77	5,410.07	0.00	0.00	0.00
17,500.00	91.02	359.52	12,040.65	5,506.25	-477.61	5,510.06	0.00	0.00	0.00
17,600.00	91.02	359.52	12,038.87	5,606.23	-478.44	5,610.04	0.00	0.00	0.00
17,700.00	91.02	359.52	12,037.08	5,706.21	-479.27	5,710.02	0.00	0.00	0.00
17,800.00	91.02	359.52	12,035.30	5,806.19	-480.10	5,810.01	0.00	0.00	0.00
17,900.00	91.02	359.52	12,033.52	5,906.17	-480.94	5,909.99	0.00	0.00	0.00
18,000.00	91.02	359.52	12,031.74	6,006.15	-481.77	6,009.98	0.00	0.00	0.00
18,100.00	91.02	359.52	12,029.96	6,106.13	-482.60	6,109.96	0.00	0.00	0.00
18,200.00	91.02	359.52	12,028.17	6,206.11	-483.43	6,209.95	0.00	0.00	0.00
18,300.00	91.02	359.52	12,026.39	6,306.09	-484.27	6,309.93	0.00	0.00	0.00
18,400.00	91.02	359.52	12,024.61	6,406.07	-485.10	6,409.91	0.00	0.00	0.00
18,500.00	91.02	359.52	12,022.83	6,506.06	-485.93	6,509.90	0.00	0.00	0.00
18,600.00	91.02	359.52	12,021.05	6,606.04	-486.77	6,609.88	0.00	0.00	0.00
18,700.00	91.02	359.52	12,019.26	6,706.02	-487.60	6,709.87	0.00	0.00	0.00

Aim Directional Services, LLC

Survey Report

Company: Advance Energy Partners, LLC
Project: Lea County, New Mexico
Site: Dagger State Com 802H
Well: #802H
Wellbore: Lateral 1r0
Design: Plan 0.1

Local Co-ordinate Reference: Site Dagger State Com 802H
TVD Reference: 3812'GL+26.5'KB @ 3838.50usft
MD Reference: 3812'GL+26.5'KB @ 3838.50usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14 Single User Db

Planned 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)
18,800.00	91.02	359.52	12,017.48	6,806.00	-488.43	6,809.85	0.00	0.00	0.00
18,900.00	91.02	359.52	12,015.70	6,905.98	-489.26	6,909.83	0.00	0.00	0.00
19,000.00	91.02	359.52	12,013.92	7,005.96	-490.10	7,009.82	0.00	0.00	0.00
19,100.00	91.02	359.52	12,012.14	7,105.94	-490.93	7,109.80	0.00	0.00	0.00
19,200.00	91.02	359.52	12,010.36	7,205.92	-491.76	7,209.79	0.00	0.00	0.00
19,300.00	91.02	359.52	12,008.57	7,305.90	-492.59	7,309.77	0.00	0.00	0.00
19,400.00	91.02	359.52	12,006.79	7,405.88	-493.43	7,409.75	0.00	0.00	0.00
19,500.00	91.02	359.52	12,005.01	7,505.86	-494.26	7,509.74	0.00	0.00	0.00
19,600.00	91.02	359.52	12,003.23	7,605.84	-495.09	7,609.72	0.00	0.00	0.00
19,700.00	91.02	359.52	12,001.45	7,705.82	-495.92	7,709.71	0.00	0.00	0.00
19,781.09	91.02	359.52	12,000.00	7,786.90	-496.60	7,790.79	0.00	0.00	0.00
PBHL - PBHL (Dagger802H)									

Design Targets

Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP (Dagger802H)	0.00	0.00	0.00	-32.10	-431.70	528,155.40	764,152.80	32° 26' 59.612 N	103° 36' 39.620 W
- plan misses target center by 432.89usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
PBHL (Dagger802H)	0.00	0.00	12,000.00	7,786.90	-496.60	535,974.40	764,087.90	32° 28' 16.984 N	103° 36' 39.760 W
- plan hits target center									
- Point									

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
1,605.02	1,605.00	10 3/4"	10-3/4	12-1/4
10,668.59	10,650.00	7 5/8"	7-5/8	7-5/8

Aim Directional Services, LLC

Survey Report

Company:	Advance Energy Partners, LLC	Local Co-ordinate Reference:	Site Dagger State Com 802H
Project:	Lea County, New Mexico	TVD Reference:	3812'GL+26.5'KB @ 3838.50usft
Site:	Dagger State Com 802H	MD Reference:	3812'GL+26.5'KB @ 3838.50usft
Well:	#802H	North Reference:	Grid
Wellbore:	Lateral 1r0	Survey Calculation Method:	Minimum Curvature
Design:	Plan 0.1	Database:	EDM 5000.14 Single User Db

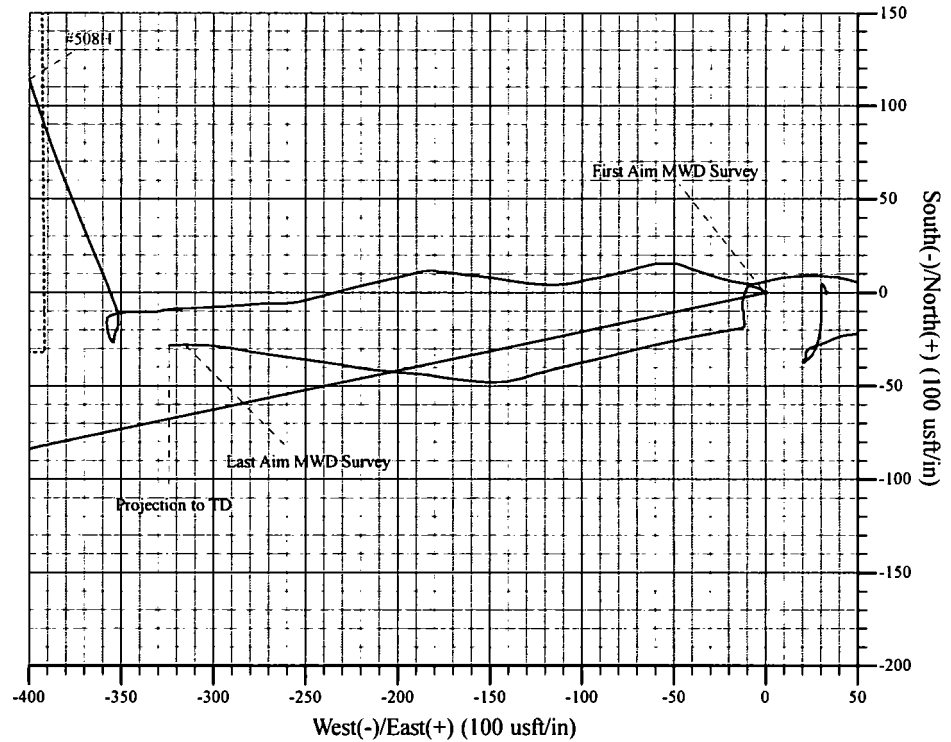
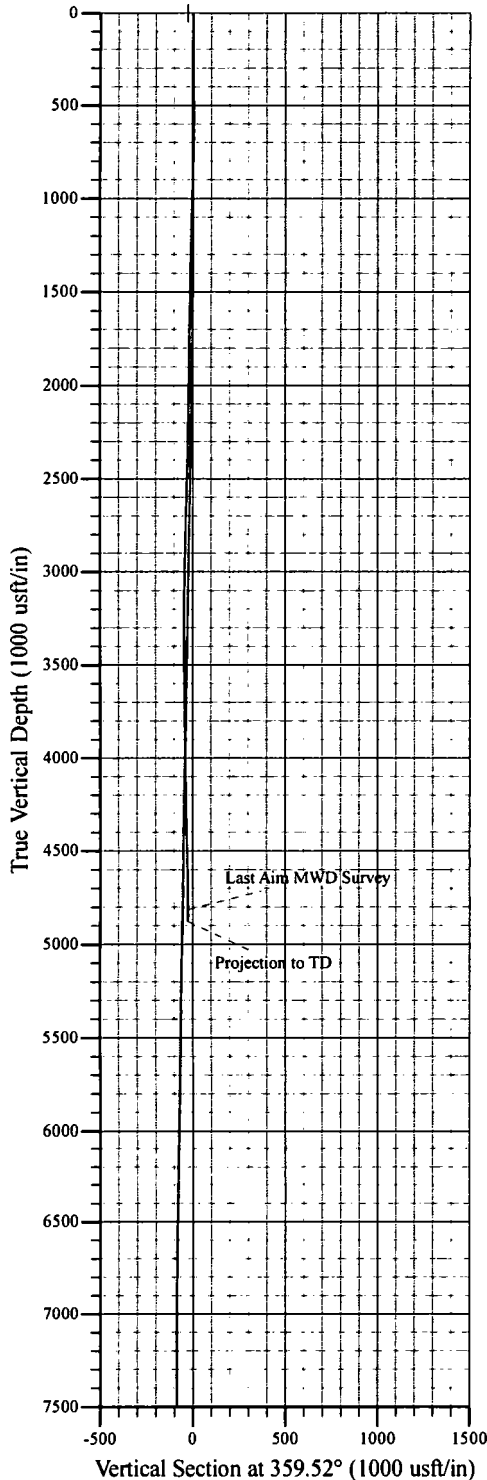
Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,597.02	1,597.00	Rustler		0.00	
5,270.27	5,257.00	Limestone base		0.00	
8,575.59	8,557.00	Lower Brushy		0.00	
9,047.59	9,029.00	Avalon		0.00	
10,042.59	10,024.00	1st BS Sand		0.00	
10,603.59	10,585.00	2nd BS Sand		0.00	
11,235.59	11,217.00	3rd BS Carbonate		0.00	
11,758.68	11,737.00	3rd BS Sand		0.00	
12,252.10	12,087.00	Wolfcamp A		0.00	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
1450	1450	0	0	Build 1.00°/100'	
1950	1949	-4	-21	Hold 5.0° Inc, 258.21° Azimuth	
6502	6484	-86	-410	Drop 1.00°/100'	
7002	6983	-90	-431	Hold Vertical	
11,576	11,557	-90	-431	KOP, Build 10.00°/100'	
12,486	12,130	493	-436	LP, Hold 91.02° Inc, 359.52° Azimuth	
19,781	12,000	7787	-497	PBHL	

Advance Energy Partners, LLC



Dagger State Com 802H
Lea County, New Mexico
Job No. WT-19-084
H&P 389
Plan 1.0 Final PVA



Azimuths to Grid North
True North: -0.39°
Magnetic North: 6.28°

Magnetic Field
Strength: 48123.1nT
Dip Angle: 60.24°
Date: 5/14/2019
Model: MVHD

Magnetic North: 6.28° to Grid North

SLOTS		
Slot Name	+N/-S	+E/-W
506H	1.20	118.30
508H	1.00	88.30
552H	0.20	33.00
802H	0.00	0.00

SITE DETAILS: Dagger State Com 802H	
Site Centre Northing:	528187.50
Easting:	764584.50
Positional Uncertainty:	0.00
Convergence:	0.39
Local North:	Grid
Depth Reference:	3812'GL+26.5'KB @ 3838.50usft (H&P 389)

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

*Note - Aim is not responsible for collision issues against any unknown offset wells.

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
FTP (Dagger802H)	0.00	-32.10	-431.70	528155.40	764152.80	32° 26' 59.612 N	103° 36' 39.620 W
PBHL (Dagger802H)	12000.00	7786.90	-496.60	535974.40	764087.90	32° 28' 16.984 N	103° 36' 39.760 W

Drawn By: IG

Date Created: 5/8/2019

Date Revised: 6/26/2019

File: Advance Energy - Dagger State Com #802H Plan 1.0 Surface Final PVA.wpc

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Annotation
1	4829.00	7.65	268.28	4812.14	-27.90	-315.29	0.00	0.00	-25.26	Last Aim MWD Survey
2	4894.00	7.65	268.28	4876.57	-28.16	-323.94	0.00	0.00	-25.45	Projection to TD



Proposed vs. As Drilled Lateral

Dagger State Com #802H (WT-19-084)

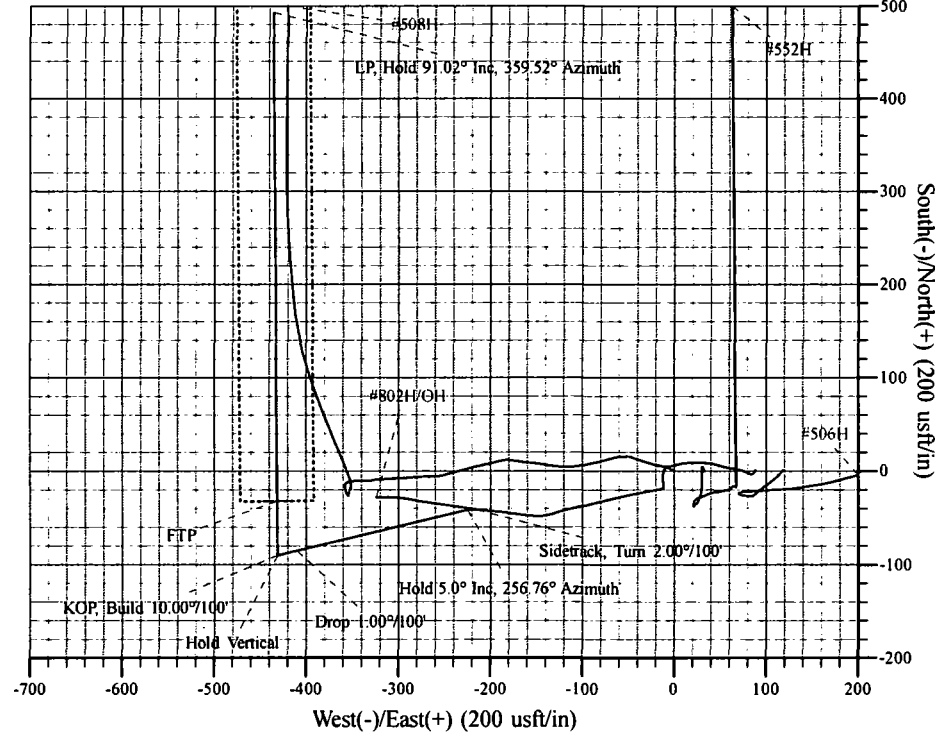
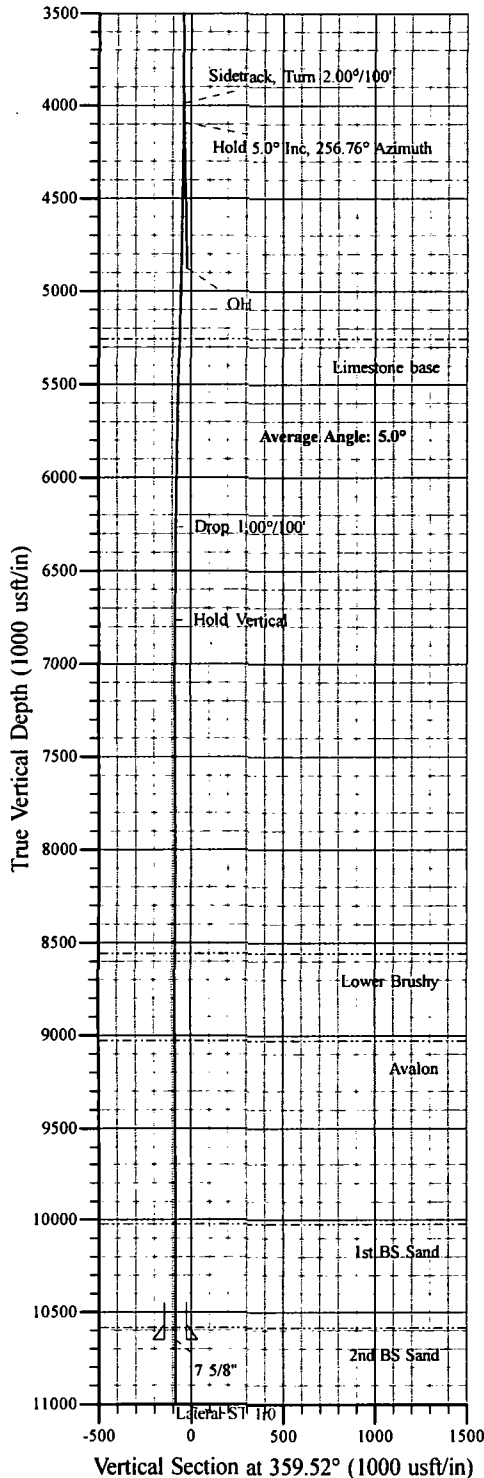
2019-05-19 to 2019-06-30

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



Advance Energy Partners, LLC

Dagger State Com 802H
Lea County, New Mexico
Job No. WT-19-084
H&P 389
Plan 2.0



Azimuths to Grid North
True North: -0.39°
Magnetic North: 6.28°

Magnetic Field
Strength: 48118.6nT
Dip Angle: 60.24°
Date: 5/29/2019
Model: MVHD

Magnetic North: 6.28° to Grid North

CASING DETAILS

TVD	Name
10650.00	7 5/8"

SLOTS

Slot Name	+N/-S	+E/-W
506H	1.20	118.30
508H	1.00	88.30
552H	0.20	33.00
802H	0.00	0.00

SITE DETAILS: Dagger State Com 802H

Site Centre Northing: 528187.50
Easting: 764584.50

Positional Uncertainty: 0.00
Convergence: 0.39
Local North: Grid

Depth Reference:
3812'GL+26.5'KB @ 3838.50usft (H&P 389)

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

*Note - Aim is not responsible for collision issues against any unknown offset wells.

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
FTP (Dagger802H)	0.00	-32.10	-431.70	528155.40	764152.80	32° 26' 59.612 N	103° 36' 39.620 W
PBHL (Dagger802H)	12000.00	7786.90	-496.60	535974.40	764087.90	32° 28' 16.984 N	103° 36' 39.760 W

Drawn By: IG

Date Created: 5/8/2019

Date Revised: 5/29/2019

File: Advance Energy - Dagger State Com #802H Plan 2.0 Surface.wpc

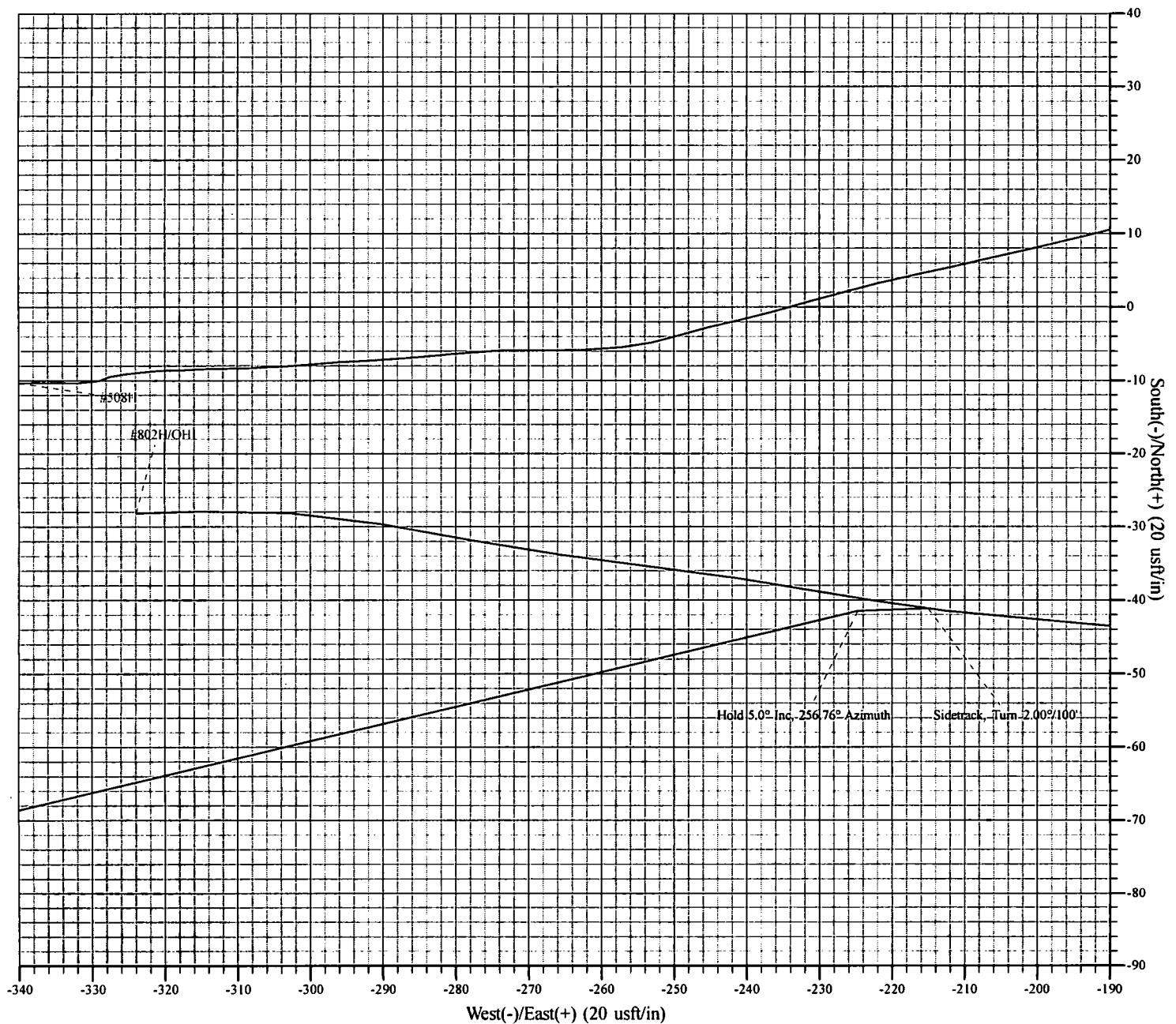
SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Annotation
1	4000.00	5.77	277.68	3989.44	-41.13	-215.04	0.000	0.00	-39.33	Sidetrack, Turn 2.00°/100'
2	4104.66	5.00	256.76	4093.65	-41.48	-224.70	2.000	-121.55	-39.59	Hold 5.0° Inc, 256.76° Azimuth
3	6284.70	5.00	256.76	6265.37	-85.00	-409.75	0.000	0.00	-81.57	Drop 1.00°/100'
4	6784.96	0.00	0.00	6765.00	-90.00	-431.00	1.000	180.00	-86.39	Hold Vertical
5	11577.09	0.00	0.00	11557.13	-90.00	-431.00	0.000	0.00	-86.39	KOP, Build 10.00°/100'
6	12487.30	91.02	359.52	12130.00	493.15	-435.86	10.000	359.52	496.78	LP, Hold 91.02° Inc, 359.52° Azimuth
7	19782.46	91.02	359.52	12000.00	7786.90	-496.60	0.000	0.00	7790.79	PBHL

Advance Energy Partners, LLC



Dagger State Com 802H
Lea County, New Mexico
Job No. WT-19-084
H&P 389
Plan 2.0



*Note - Aim is not responsible for collision issues against any unknown offset wells.

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
FTP (Dagger802H)	0.00	-32.10	-431.70	528155.40	764152.80	32° 26' 59.612 N	103° 36' 39.620 W
PBHL (Dagger802H)	12000.00	7786.90	-496.60	535974.40	764087.90	32° 28' 16.984 N	103° 36' 39.760 W

Drawn By: IG

Date Created: 5/8/2019

Date Revised: 5/29/2019

File: Advance Energy - Dagger State Com #802H Plan 2.0 Spider.wpc

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
1	4000.00	5.77	277.68	3989.44	-41.13	-215.04	0.000	0.00	-39.33	Sidetrack, Turn 2.00°/100'
2	4104.66	5.00	256.76	4093.65	-41.48	-224.70	2.000	-121.55	-39.59	Hold 5.0° Inc, 256.76° Azimuth
3	6284.70	5.00	256.76	6265.37	-85.00	-409.75	0.000	0.00	-81.57	Drop 1.00°/100'
4	6784.96	0.00	0.00	6765.00	-90.00	-431.00	1.000	180.00	-86.39	Hold Vertical
5	11577.09	0.00	0.00	11557.13	-90.00	-431.00	0.000	0.00	-86.39	KOP, Build 10.00°/100'
6	12487.30	91.02	359.52	12130.00	493.15	-435.86	10.000	359.52	496.78	LP, Hold 91.02° Inc, 359.52° Azimuth
7	19782.46	91.02	359.52	12000.00	7786.90	-496.60	0.000	0.00	7790.79	PBHL



Advance Energy Partners, LLC

Dagger State Com 802H
Lea County, New Mexico
Job No. WT-19-084
H&P 389
Plan 2.0



SITE DETAILS: Dagger State Com 802H	
Site Centre Northing:	528187.50
Easting:	764584.50
Positional Uncertainty:	0.00
Convergence:	0.39
Local North:	Grid

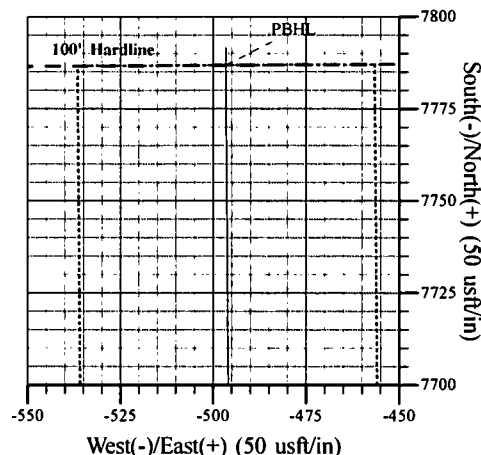


Azimuths to Grid North
True North: -0.39°
Magnetic North: 6.28°

Magnetic Field
Strength: 48118.6nT
Dip Angle: 60.24°
Date: 5/29/2019
Model: MVHD

Magnetic North: 6.28° to Grid North

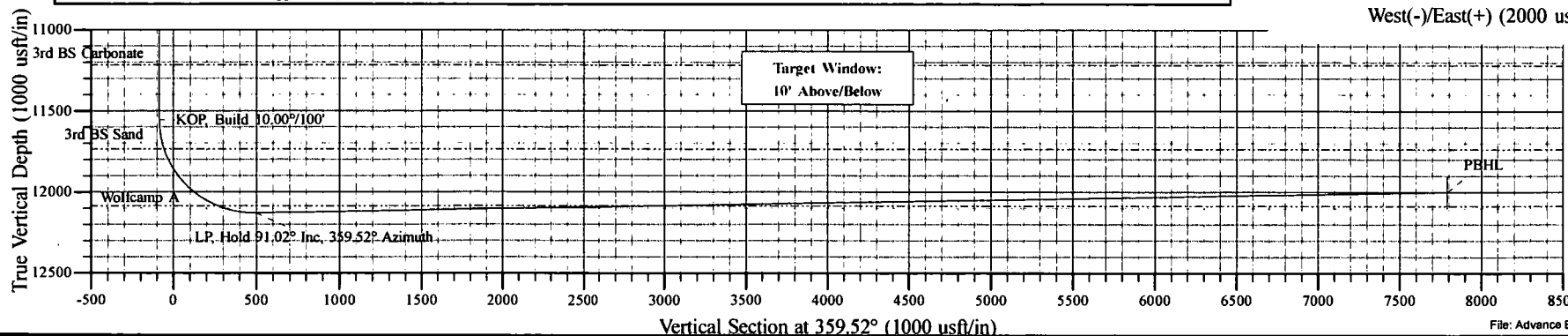
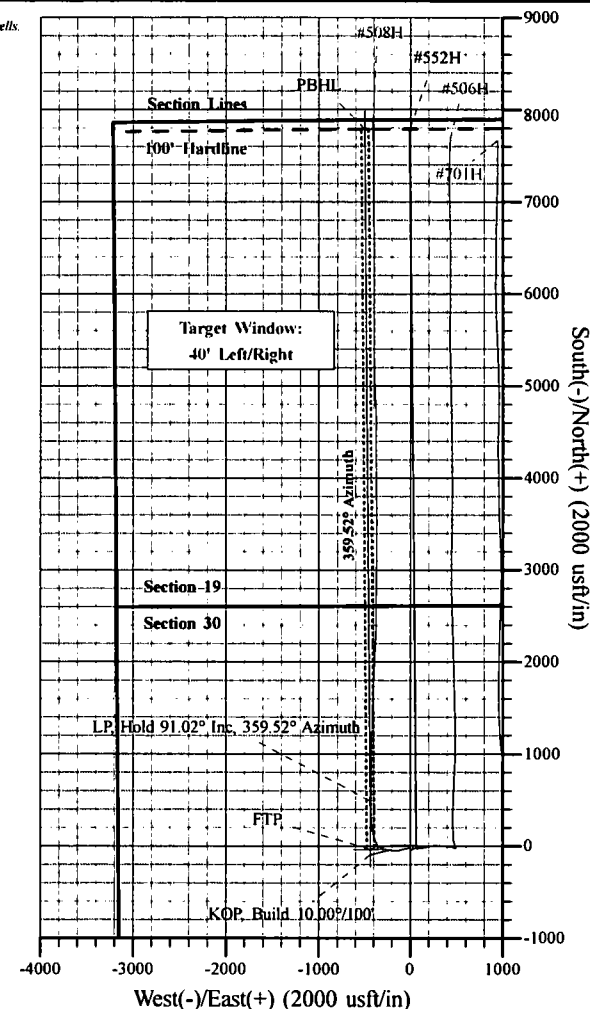
*Note - Aim is not responsible for any collision issues against unknown offset wells.



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:	3812'GL+26.5'KB @ 3838.50usft (H&P 389)

SECTION DETAILS											
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation	
1	4000.00	5.77	277.68	3989.44	-41.13	-215.04	0.000	0.00	-39.33	Sidetrack, Turn 2.00°/100'	
2	4104.66	5.00	256.76	4093.65	-41.48	-224.70	2.000	-121.55	-39.59	Hold 5.0° Inc, 256.76° Azimuth	
3	6284.70	5.00	256.76	6265.37	-85.00	-409.75	0.000	0.00	-81.57	Drop 1.00°/100'	
4	6784.96	0.00	0.00	6765.00	-90.00	-431.00	1.000	180.00	-86.39	Hold Vertical	
5	11577.09	0.00	0.00	11557.13	-90.00	-431.00	0.000	0.00	-86.39	KOP, Build 10.00°/100'	
6	12487.30	91.02	359.52	12130.00	493.15	-435.86	10.000	359.52	496.78	LP, Hold 91.02° Inc, 359.52° Azimuth	
7	19782.46	91.02	359.52	12000.00	7786.90	-496.60	0.000	0.00	7790.79	PBHL	

DESIGN TARGET DETAILS								
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
FTP (Dagger802H)	0.00	-32.10	-431.70	528155.40	764152.80	32° 26' 59.612 N	103° 36' 39.620 W	
PBHL (Dagger802H)	12000.00	7786.90	-496.60	535974.40	764087.90	32° 28' 16.984 N	103° 36' 39.760 W	





Survey Report

Company: Advance Energy Partners, LLC
Project: Lea County, New Mexico
Site: Dagger State Com 802H
Well: #802H
Wellbore: Lateral ST 1r0
Design: Plan 2.0

Local Co-ordinate Reference: Site Dagger State Com 802H
TVD Reference: 3812'GL+26.5'KB @ 3838.50usft (H&P 389)
MD Reference: 3812'GL+26.5'KB @ 3838.50usft (H&P 389)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDMRESTORED

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 802H		
Site Position:		Northing:	528,187.50 usft
From:	Map	Easting:	764,584.50 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 26' 59.901 N
		Longitude:	103° 36' 34.579 W
		Grid Convergence:	0.39 °

Well	#802H - Slot 802H		
Well Position	+N/-S	0.00 usft	Northing: 528,187.50 usft
	+E/-W	0.00 usft	Easting: 764,584.50 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32° 26' 59.901 N
		Longitude:	103° 36' 34.579 W
		Ground Level:	3,812.00 usft

Wellbore	Lateral ST 1r0				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	5/29/2019	6.67	60.24	48,118.57772024

Design	Plan 2.0				
Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	4,000.00	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	359.52	

Survey Tool Program Date 6/1/2019

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
198.00	4,000.00	Aim MWD Surveys (OH Surveys)	B001Mb_MWD+HRGM	OWSG MWD + HRGM
4,000.00	19,782.46	Plan 2.0 (Lateral ST 1r0)	B001Mb_MWD+HRGM	OWSG MWD + HRGM

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000
2.51	0.01	309.59	2.51	0.00	0.00	0.00	0.465	0.465	0.000
FTP (Dagger802H)									
198.00	0.92	309.59	197.99	1.01	-1.22	1.02	0.465	0.465	0.000
321.00	1.32	292.19	320.97	2.18	-3.30	2.20	0.423	0.325	-14.146
412.00	0.92	293.68	411.95	2.87	-4.94	2.91	0.441	-0.440	1.637
596.00	1.32	274.43	595.92	3.62	-8.40	3.69	0.296	0.217	-10.462
688.00	0.84	215.81	687.90	3.16	-9.85	3.24	1.236	-0.522	-63.717
780.00	1.41	201.49	779.88	1.56	-10.66	1.65	0.686	0.620	-15.565
871.00	1.58	199.90	870.85	-0.66	-11.50	-0.57	0.192	0.187	-1.747



Survey Report

Company: Advance Energy Partners, LLC
Project: Lea County, New Mexico
Site: Dagger State Com 802H
Well: #802H
Wellbore: Lateral ST 1r0
Design: Plan 2.0

Local Co-ordinate Reference: Site Dagger State Com 802H
TVD Reference: 3812'GL+26.5'KB @ 3838.50usft (H&P 389)
MD Reference: 3812'GL+26.5'KB @ 3838.50usft (H&P 389)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDMRESTORED

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
966.00	1.45	189.09	965.82	-3.08	-12.14	-2.98	0.330	-0.137	-11.379
1,061.00	1.32	194.63	1,060.79	-5.33	-12.60	-5.22	0.196	-0.137	5.832
1,156.00	1.23	168.61	1,155.77	-7.39	-12.68	-7.28	0.611	-0.095	-27.389
1,251.00	1.36	168.97	1,250.74	-9.49	-12.26	-9.39	0.137	0.137	0.379
1,345.00	0.88	166.77	1,344.73	-11.29	-11.88	-11.19	0.513	-0.511	-2.340
1,440.00	0.75	188.92	1,439.72	-12.61	-11.81	-12.51	0.356	-0.137	23.316
1,535.00	0.88	168.70	1,534.71	-13.94	-11.76	-13.84	0.330	0.137	-21.284
1,699.00	1.01	169.93	1,698.69	-16.60	-11.27	-16.51	0.080	0.079	0.750
1,794.00	1.01	211.42	1,793.67	-18.14	-11.56	-18.04	0.753	0.000	43.674
1,888.00	2.11	259.58	1,887.64	-19.16	-13.69	-19.04	1.725	1.170	51.234
1,983.00	3.82	261.95	1,982.51	-19.92	-18.54	-19.76	1.804	1.800	2.495
2,078.00	5.49	259.84	2,077.19	-21.16	-26.15	-20.94	1.767	1.758	-2.221
2,173.00	6.15	259.49	2,171.70	-22.89	-35.63	-22.59	0.696	0.695	-0.368
2,268.00	6.24	258.26	2,266.15	-24.87	-45.69	-24.49	0.169	0.095	-1.295
2,363.00	6.29	257.91	2,360.58	-27.01	-55.83	-26.54	0.066	0.053	-0.368
2,458.00	6.33	257.21	2,455.00	-29.26	-66.02	-28.71	0.091	0.042	-0.737
2,552.00	6.42	255.54	2,548.42	-31.72	-76.17	-31.08	0.219	0.096	-1.777
2,647.00	6.59	255.80	2,642.81	-34.39	-86.59	-33.66	0.182	0.179	0.274
2,742.00	6.46	257.38	2,737.20	-36.89	-97.09	-36.08	0.233	-0.137	1.663
2,837.00	6.11	258.00	2,831.62	-39.11	-107.26	-38.21	0.375	-0.368	0.653
2,932.00	5.58	255.98	2,926.13	-41.28	-116.68	-40.30	0.598	-0.558	-2.126
3,027.00	4.88	252.81	3,020.73	-43.59	-125.02	-42.54	0.797	-0.737	-3.337
3,122.00	5.32	252.73	3,115.36	-46.09	-133.09	-44.98	0.463	0.463	-0.084
3,217.00	5.80	264.41	3,209.91	-47.87	-142.07	-46.68	1.291	0.505	12.295
3,311.00	5.85	273.38	3,303.43	-48.05	-151.58	-46.78	0.969	0.053	9.543
3,406.00	5.36	276.72	3,397.98	-47.25	-160.82	-45.90	0.619	-0.516	3.516
3,501.00	4.53	275.93	3,492.62	-46.34	-168.96	-44.92	0.877	-0.874	-0.832
3,596.00	4.48	281.47	3,587.33	-45.21	-176.33	-43.73	0.461	-0.053	5.832
3,691.00	5.19	276.46	3,681.99	-43.99	-184.23	-42.45	0.869	0.747	-5.274
3,786.00	5.93	273.20	3,776.54	-43.23	-193.40	-41.61	0.847	0.779	-3.432
3,975.00	5.76	277.42	3,964.56	-41.46	-212.56	-39.68	0.244	-0.090	2.233
4,000.00	5.77	277.68	3,989.44	-41.13	-215.04	-39.33	0.111	0.041	1.026
Sidetrack, Turn 2.00°/100'									
4,104.66	5.00	256.76	4,093.65	-41.48	-224.70	-39.59	2.000	-0.734	-19.981
Hold 5.0° Inc, 256.76° Azimuth									
4,200.00	5.00	256.76	4,188.62	-43.38	-232.80	-41.43	0.000	0.000	0.000
4,300.00	5.00	256.76	4,288.24	-45.38	-241.28	-43.35	0.000	0.000	0.000
4,400.00	5.00	256.76	4,387.86	-47.37	-249.77	-45.28	0.000	0.000	0.000
4,500.00	5.00	256.76	4,487.48	-49.37	-258.26	-47.20	0.000	0.000	0.000
4,600.00	5.00	256.76	4,587.10	-51.37	-266.75	-49.13	0.000	0.000	0.000
4,700.00	5.00	256.76	4,686.71	-53.36	-275.24	-51.06	0.000	0.000	0.000
4,800.00	5.00	256.76	4,786.33	-55.36	-283.73	-52.98	0.000	0.000	0.000
4,900.00	5.00	256.76	4,885.95	-57.36	-292.21	-54.91	0.000	0.000	0.000

Company:	Advance Energy Partners, LLC	Local Co-ordinate Reference:	Site Dagger State Com 802H
Project:	Lea County, New Mexico	TVD Reference:	3812'GL+26.5'KB @ 3838.50usft (H&P 389)
Site:	Dagger State Com 802H	MD Reference:	3812'GL+26.5'KB @ 3838.50usft (H&P 389)
Well:	#802H	North Reference:	Grid
Wellbore:	Lateral ST 1r0	Survey Calculation Method:	Minimum Curvature
Design:	Plan 2.0	Database:	EDMRESTORED

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,000.00	5.00	256.76	4,985.57	-59.35	-300.70	-56.83	0.000	0.000	0.000
5,100.00	5.00	256.76	5,085.19	-61.35	-309.19	-58.76	0.000	0.000	0.000
5,200.00	5.00	256.76	5,184.81	-63.35	-317.68	-60.68	0.000	0.000	0.000
5,300.00	5.00	256.76	5,284.43	-65.34	-326.17	-62.61	0.000	0.000	0.000
5,400.00	5.00	256.76	5,384.05	-67.34	-334.66	-64.53	0.000	0.000	0.000
5,500.00	5.00	256.76	5,483.67	-69.34	-343.15	-66.46	0.000	0.000	0.000
5,600.00	5.00	256.76	5,583.29	-71.33	-351.63	-68.38	0.000	0.000	0.000
5,700.00	5.00	256.76	5,682.91	-73.33	-360.12	-70.31	0.000	0.000	0.000
5,800.00	5.00	256.76	5,782.52	-75.33	-368.61	-72.23	0.000	0.000	0.000
5,900.00	5.00	256.76	5,882.14	-77.32	-377.10	-74.16	0.000	0.000	0.000
6,000.00	5.00	256.76	5,981.76	-79.32	-385.59	-76.09	0.000	0.000	0.000
6,100.00	5.00	256.76	6,081.38	-81.32	-394.08	-78.01	0.000	0.000	0.000
6,200.00	5.00	256.76	6,181.00	-83.31	-402.56	-79.94	0.000	0.000	0.000
6,284.70	5.00	256.76	6,265.37	-85.00	-409.75	-81.57	0.000	0.000	0.000
Drop 1.00°/100'									
6,300.00	4.85	256.76	6,280.62	-85.30	-411.03	-81.86	1.000	-1.000	0.000
6,400.00	3.85	256.76	6,380.33	-87.04	-418.42	-83.53	1.000	-1.000	0.000
6,500.00	2.85	256.76	6,480.16	-88.38	-424.10	-84.82	1.000	-1.000	0.000
6,600.00	1.85	256.76	6,580.07	-89.32	-428.09	-85.73	1.000	-1.000	0.000
6,700.00	0.85	256.76	6,680.05	-89.86	-430.39	-86.25	1.000	-1.000	0.000
6,784.96	0.00	0.00	6,765.00	-90.00	-431.00	-86.39	1.000	-1.000	0.000
Hold Vertical									
6,800.00	0.00	0.00	6,780.04	-90.00	-431.00	-86.39	0.000	0.000	0.000
6,900.00	0.00	0.00	6,880.04	-90.00	-431.00	-86.39	0.000	0.000	0.000
7,000.00	0.00	0.00	6,980.04	-90.00	-431.00	-86.39	0.000	0.000	0.000
7,100.00	0.00	0.00	7,080.04	-90.00	-431.00	-86.39	0.000	0.000	0.000
7,200.00	0.00	0.00	7,180.04	-90.00	-431.00	-86.39	0.000	0.000	0.000
7,300.00	0.00	0.00	7,280.04	-90.00	-431.00	-86.39	0.000	0.000	0.000
7,400.00	0.00	0.00	7,380.04	-90.00	-431.00	-86.39	0.000	0.000	0.000
7,500.00	0.00	0.00	7,480.04	-90.00	-431.00	-86.39	0.000	0.000	0.000
7,600.00	0.00	0.00	7,580.04	-90.00	-431.00	-86.39	0.000	0.000	0.000
7,700.00	0.00	0.00	7,680.04	-90.00	-431.00	-86.39	0.000	0.000	0.000
7,800.00	0.00	0.00	7,780.04	-90.00	-431.00	-86.39	0.000	0.000	0.000
7,900.00	0.00	0.00	7,880.04	-90.00	-431.00	-86.39	0.000	0.000	0.000
8,000.00	0.00	0.00	7,980.04	-90.00	-431.00	-86.39	0.000	0.000	0.000
8,100.00	0.00	0.00	8,080.04	-90.00	-431.00	-86.39	0.000	0.000	0.000
8,200.00	0.00	0.00	8,180.04	-90.00	-431.00	-86.39	0.000	0.000	0.000
8,300.00	0.00	0.00	8,280.04	-90.00	-431.00	-86.39	0.000	0.000	0.000
8,400.00	0.00	0.00	8,380.04	-90.00	-431.00	-86.39	0.000	0.000	0.000
8,500.00	0.00	0.00	8,480.04	-90.00	-431.00	-86.39	0.000	0.000	0.000
8,600.00	0.00	0.00	8,580.04	-90.00	-431.00	-86.39	0.000	0.000	0.000
8,700.00	0.00	0.00	8,680.04	-90.00	-431.00	-86.39	0.000	0.000	0.000
8,800.00	0.00	0.00	8,780.04	-90.00	-431.00	-86.39	0.000	0.000	0.000
8,900.00	0.00	0.00	8,880.04	-90.00	-431.00	-86.39	0.000	0.000	0.000



Survey Report

Company: Advance Energy Partners, LLC
Project: Lea County, New Mexico
Site: Dagger State Com 802H
Well: #802H
Wellbore: Lateral ST 1r0
Design: Plan 2.0

Local Co-ordinate Reference: Site Dagger State Com 802H
TVD Reference: 3812'GL+26.5'KB @ 3838.50usft (H&P 389)
MD Reference: 3812'GL+26.5'KB @ 3838.50usft (H&P 389)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDMRESTORED

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,000.00	0.00	0.00	9,980.04	-90.00	-431.00	-86.39	0.000	0.000	0.000
9,100.00	0.00	0.00	9,080.04	-90.00	-431.00	-86.39	0.000	0.000	0.000
9,200.00	0.00	0.00	9,180.04	-90.00	-431.00	-86.39	0.000	0.000	0.000
9,300.00	0.00	0.00	9,280.04	-90.00	-431.00	-86.39	0.000	0.000	0.000
9,400.00	0.00	0.00	9,380.04	-90.00	-431.00	-86.39	0.000	0.000	0.000
9,500.00	0.00	0.00	9,480.04	-90.00	-431.00	-86.39	0.000	0.000	0.000
9,600.00	0.00	0.00	9,580.04	-90.00	-431.00	-86.39	0.000	0.000	0.000
9,700.00	0.00	0.00	9,680.04	-90.00	-431.00	-86.39	0.000	0.000	0.000
9,800.00	0.00	0.00	9,780.04	-90.00	-431.00	-86.39	0.000	0.000	0.000
9,900.00	0.00	0.00	9,880.04	-90.00	-431.00	-86.39	0.000	0.000	0.000
10,000.00	0.00	0.00	9,980.04	-90.00	-431.00	-86.39	0.000	0.000	0.000
10,100.00	0.00	0.00	10,080.04	-90.00	-431.00	-86.39	0.000	0.000	0.000
10,200.00	0.00	0.00	10,180.04	-90.00	-431.00	-86.39	0.000	0.000	0.000
10,300.00	0.00	0.00	10,280.04	-90.00	-431.00	-86.39	0.000	0.000	0.000
10,400.00	0.00	0.00	10,380.04	-90.00	-431.00	-86.39	0.000	0.000	0.000
10,500.00	0.00	0.00	10,480.04	-90.00	-431.00	-86.39	0.000	0.000	0.000
10,600.00	0.00	0.00	10,580.04	-90.00	-431.00	-86.39	0.000	0.000	0.000
10,669.96	0.00	0.00	10,650.00	-90.00	-431.00	-86.39	0.000	0.000	0.000
7 5/8"									
10,700.00	0.00	0.00	10,680.04	-90.00	-431.00	-86.39	0.000	0.000	0.000
10,800.00	0.00	0.00	10,780.04	-90.00	-431.00	-86.39	0.000	0.000	0.000
10,900.00	0.00	0.00	10,880.04	-90.00	-431.00	-86.39	0.000	0.000	0.000
11,000.00	0.00	0.00	10,980.04	-90.00	-431.00	-86.39	0.000	0.000	0.000
11,100.00	0.00	0.00	11,080.04	-90.00	-431.00	-86.39	0.000	0.000	0.000
11,200.00	0.00	0.00	11,180.04	-90.00	-431.00	-86.39	0.000	0.000	0.000
11,300.00	0.00	0.00	11,280.04	-90.00	-431.00	-86.39	0.000	0.000	0.000
11,400.00	0.00	0.00	11,380.04	-90.00	-431.00	-86.39	0.000	0.000	0.000
11,500.00	0.00	0.00	11,480.04	-90.00	-431.00	-86.39	0.000	0.000	0.000
11,577.09	0.00	0.00	11,557.13	-90.00	-431.00	-86.39	0.000	0.000	0.000
KOP, Build 10.00°/100'									
11,600.00	2.29	359.52	11,580.04	-89.54	-431.00	-85.93	10.000	10.000	0.000
11,650.00	7.29	359.52	11,629.85	-85.37	-431.04	-81.75	10.000	10.000	0.000
11,700.00	12.29	359.52	11,679.10	-76.87	-431.11	-73.25	10.000	10.000	0.000
11,750.00	17.29	359.52	11,727.43	-64.11	-431.22	-60.49	10.000	10.000	0.000
11,800.00	22.29	359.52	11,774.46	-47.18	-431.36	-43.57	10.000	10.000	0.000
11,850.00	27.29	359.52	11,819.84	-26.22	-431.53	-22.61	10.000	10.000	0.000
11,900.00	32.29	359.52	11,863.22	-1.39	-431.74	2.23	10.000	10.000	0.000
11,950.00	37.29	359.52	11,904.27	27.13	-431.98	30.75	10.000	10.000	0.000
12,000.00	42.29	359.52	11,942.67	59.12	-432.24	62.74	10.000	10.000	0.000
12,050.00	47.29	359.52	11,978.15	94.33	-432.54	97.95	10.000	10.000	0.000
12,100.00	52.29	359.52	12,010.41	132.50	-432.85	136.12	10.000	10.000	0.000
12,150.00	57.29	359.52	12,039.23	173.34	-433.19	176.96	10.000	10.000	0.000
12,200.00	62.29	359.52	12,064.38	216.53	-433.55	220.16	10.000	10.000	0.000
12,250.00	67.29	359.52	12,085.67	261.76	-433.93	265.38	10.000	10.000	0.000



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TVD Reference: 3812'GL+26.5'KB @ 3838.50usft (H&P 389)
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North Reference: Grid
Survey Calculation Method: Minimum Curvature
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Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
12,300.00	72.29	359.52	12,102.94	308.66	-434.32	312.29	10.000	10.000	0.000
12,350.00	77.29	359.52	12,116.05	356.89	-434.72	360.52	10.000	10.000	0.000
12,400.00	82.29	359.52	12,124.91	406.09	-435.13	409.72	10.000	10.000	0.000
12,450.00	87.29	359.52	12,129.45	455.86	-435.55	459.49	10.000	10.000	0.000
12,487.30	91.02	359.52	12,130.00	493.15	-435.86	496.78	10.000	10.000	0.000
LP, Hold 91.02° Inc, 359.52° Azimuth									
12,500.00	91.02	359.52	12,129.77	505.85	-435.96	509.48	0.000	0.000	0.000
12,600.00	91.02	359.52	12,127.99	605.83	-436.79	609.47	0.000	0.000	0.000
12,700.00	91.02	359.52	12,126.21	705.81	-437.63	709.45	0.000	0.000	0.000
12,800.00	91.02	359.52	12,124.42	805.79	-438.46	809.43	0.000	0.000	0.000
12,900.00	91.02	359.52	12,122.64	905.77	-439.29	909.42	0.000	0.000	0.000
13,000.00	91.02	359.52	12,120.86	1,005.75	-440.13	1,009.40	0.000	0.000	0.000
13,100.00	91.02	359.52	12,119.08	1,105.73	-440.96	1,109.39	0.000	0.000	0.000
13,200.00	91.02	359.52	12,117.30	1,205.71	-441.79	1,209.37	0.000	0.000	0.000
13,300.00	91.02	359.52	12,115.52	1,305.69	-442.62	1,309.35	0.000	0.000	0.000
13,400.00	91.02	359.52	12,113.73	1,405.67	-443.46	1,409.34	0.000	0.000	0.000
13,500.00	91.02	359.52	12,111.95	1,505.65	-444.29	1,509.32	0.000	0.000	0.000
13,600.00	91.02	359.52	12,110.17	1,605.63	-445.12	1,609.31	0.000	0.000	0.000
13,700.00	91.02	359.52	12,108.39	1,705.61	-445.95	1,709.29	0.000	0.000	0.000
13,800.00	91.02	359.52	12,106.61	1,805.60	-446.79	1,809.28	0.000	0.000	0.000
13,900.00	91.02	359.52	12,104.82	1,905.58	-447.62	1,909.26	0.000	0.000	0.000
14,000.00	91.02	359.52	12,103.04	2,005.56	-448.45	2,009.24	0.000	0.000	0.000
14,100.00	91.02	359.52	12,101.26	2,105.54	-449.28	2,109.23	0.000	0.000	0.000
14,200.00	91.02	359.52	12,099.48	2,205.52	-450.12	2,209.21	0.000	0.000	0.000
14,300.00	91.02	359.52	12,097.70	2,305.50	-450.95	2,309.20	0.000	0.000	0.000
14,400.00	91.02	359.52	12,095.91	2,405.48	-451.78	2,409.18	0.000	0.000	0.000
14,500.00	91.02	359.52	12,094.13	2,505.46	-452.62	2,509.16	0.000	0.000	0.000
14,600.00	91.02	359.52	12,092.35	2,605.44	-453.45	2,609.15	0.000	0.000	0.000
14,700.00	91.02	359.52	12,090.57	2,705.42	-454.28	2,709.13	0.000	0.000	0.000
14,800.00	91.02	359.52	12,088.79	2,805.40	-455.11	2,809.12	0.000	0.000	0.000
14,900.00	91.02	359.52	12,087.00	2,905.38	-455.95	2,909.10	0.000	0.000	0.000
15,000.00	91.02	359.52	12,085.22	3,005.36	-456.78	3,009.08	0.000	0.000	0.000
15,100.00	91.02	359.52	12,083.44	3,105.34	-457.61	3,109.07	0.000	0.000	0.000
15,200.00	91.02	359.52	12,081.66	3,205.32	-458.44	3,209.05	0.000	0.000	0.000
15,300.00	91.02	359.52	12,079.88	3,305.31	-459.28	3,309.04	0.000	0.000	0.000
15,400.00	91.02	359.52	12,078.09	3,405.29	-460.11	3,409.02	0.000	0.000	0.000
15,500.00	91.02	359.52	12,076.31	3,505.27	-460.94	3,509.01	0.000	0.000	0.000
15,600.00	91.02	359.52	12,074.53	3,605.25	-461.77	3,608.99	0.000	0.000	0.000
15,700.00	91.02	359.52	12,072.75	3,705.23	-462.61	3,708.97	0.000	0.000	0.000
15,800.00	91.02	359.52	12,070.97	3,805.21	-463.44	3,808.96	0.000	0.000	0.000
15,900.00	91.02	359.52	12,069.18	3,905.19	-464.27	3,908.94	0.000	0.000	0.000
16,000.00	91.02	359.52	12,067.40	4,005.17	-465.11	4,008.93	0.000	0.000	0.000
16,100.00	91.02	359.52	12,065.62	4,105.15	-465.94	4,108.91	0.000	0.000	0.000

Survey Report

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Site: Dagger State Com 802H
Well: #802H
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Design: Plan 2.0

Local Co-ordinate Reference: Site Dagger State Com 802H
TVD Reference: 3812'GL+26.5'KB @ 3838.50usft (H&P 389)
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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDMRESTORED

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
16,200.00	91.02	359.52	12,063.84	4,205.13	-466.77	4,208.89	0.000	0.000	0.000
16,300.00	91.02	359.52	12,062.06	4,305.11	-467.60	4,308.88	0.000	0.000	0.000
16,400.00	91.02	359.52	12,060.27	4,405.09	-468.44	4,408.86	0.000	0.000	0.000
16,500.00	91.02	359.52	12,058.49	4,505.07	-469.27	4,508.85	0.000	0.000	0.000
16,600.00	91.02	359.52	12,056.71	4,605.05	-470.10	4,608.83	0.000	0.000	0.000
16,700.00	91.02	359.52	12,054.93	4,705.03	-470.93	4,708.81	0.000	0.000	0.000
16,800.00	91.02	359.52	12,053.15	4,805.02	-471.77	4,808.80	0.000	0.000	0.000
16,900.00	91.02	359.52	12,051.36	4,905.00	-472.60	4,908.78	0.000	0.000	0.000
17,000.00	91.02	359.52	12,049.58	5,004.98	-473.43	5,008.77	0.000	0.000	0.000
17,100.00	91.02	359.52	12,047.80	5,104.96	-474.26	5,108.75	0.000	0.000	0.000
17,200.00	91.02	359.52	12,046.02	5,204.94	-475.10	5,208.74	0.000	0.000	0.000
17,300.00	91.02	359.52	12,044.24	5,304.92	-475.93	5,308.72	0.000	0.000	0.000
17,400.00	91.02	359.52	12,042.45	5,404.90	-476.76	5,408.70	0.000	0.000	0.000
17,500.00	91.02	359.52	12,040.67	5,504.88	-477.60	5,508.69	0.000	0.000	0.000
17,600.00	91.02	359.52	12,038.89	5,604.86	-478.43	5,608.67	0.000	0.000	0.000
17,700.00	91.02	359.52	12,037.11	5,704.84	-479.26	5,708.66	0.000	0.000	0.000
17,800.00	91.02	359.52	12,035.33	5,804.82	-480.09	5,808.64	0.000	0.000	0.000
17,900.00	91.02	359.52	12,033.54	5,904.80	-480.93	5,908.62	0.000	0.000	0.000
18,000.00	91.02	359.52	12,031.76	6,004.78	-481.76	6,008.61	0.000	0.000	0.000
18,100.00	91.02	359.52	12,029.98	6,104.76	-482.59	6,108.59	0.000	0.000	0.000
18,200.00	91.02	359.52	12,028.20	6,204.74	-483.42	6,208.58	0.000	0.000	0.000
18,300.00	91.02	359.52	12,026.42	6,304.73	-484.26	6,308.56	0.000	0.000	0.000
18,400.00	91.02	359.52	12,024.64	6,404.71	-485.09	6,408.54	0.000	0.000	0.000
18,500.00	91.02	359.52	12,022.85	6,504.69	-485.92	6,508.53	0.000	0.000	0.000
18,600.00	91.02	359.52	12,021.07	6,604.67	-486.75	6,608.51	0.000	0.000	0.000
18,700.00	91.02	359.52	12,019.29	6,704.65	-487.59	6,708.50	0.000	0.000	0.000
18,800.00	91.02	359.52	12,017.51	6,804.63	-488.42	6,808.48	0.000	0.000	0.000
18,900.00	91.02	359.52	12,015.73	6,904.61	-489.25	6,908.47	0.000	0.000	0.000
19,000.00	91.02	359.52	12,013.94	7,004.59	-490.08	7,008.45	0.000	0.000	0.000
19,100.00	91.02	359.52	12,012.16	7,104.57	-490.92	7,108.43	0.000	0.000	0.000
19,200.00	91.02	359.52	12,010.38	7,204.55	-491.75	7,208.42	0.000	0.000	0.000
19,300.00	91.02	359.52	12,008.60	7,304.53	-492.58	7,308.40	0.000	0.000	0.000
19,400.00	91.02	359.52	12,006.82	7,404.51	-493.42	7,408.39	0.000	0.000	0.000
19,500.00	91.02	359.52	12,005.03	7,504.49	-494.25	7,508.37	0.000	0.000	0.000
19,600.00	91.02	359.52	12,003.25	7,604.47	-495.08	7,608.35	0.000	0.000	0.000
19,700.00	91.02	359.52	12,001.47	7,704.45	-495.91	7,708.34	0.000	0.000	0.000
19,782.46	91.02	359.52	12,000.00	7,786.90	-496.60	7,790.79	0.000	0.000	0.000
PBHL - PBHL (Dagger802H)									

Company: Advance Energy Partners, LLC
Project: Lea County, New Mexico
Site: Dagger State Com 802H
Well: #802H
Wellbore: Lateral ST 1r0
Design: Plan 2.0

Local Co-ordinate Reference: Site Dagger State Com 802H
TVD Reference: 3812'GL+26.5'KB @ 3838.50usft (H&P 389)
MD Reference: 3812'GL+26.5'KB @ 3838.50usft (H&P 389)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDMRESTORED

Design Targets
Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP (Dagger802H)	0.00	0.00	0.00	-32.10	-431.70	528,155.40	764,152.80	32° 26' 59.612 N	103° 36' 39.620 W
- plan misses target center by 432.89usft at 0.03usft MD (0.03 TVD, 0.00 N, 0.00 E)									
- Point									
PBHL (Dagger802H)	0.00	0.00	12,000.0 0	7,786.90	-496.60	535,974.40	764,087.90	32° 28' 16.984 N	103° 36' 39.760 W
- plan hits target center									
- Point									

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
10,669.96	10,650.00	7 5/8"	7-5/8	7-5/8

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,597.30	1,597.00	Rustler		0.00	
5,272.47	5,257.00	Limestone base		0.00	
8,576.96	8,557.00	Lower Brushy		0.00	
9,048.96	9,029.00	Avalon		0.00	
10,043.96	10,024.00	1st BS Sand		0.00	
10,604.96	10,585.00	2nd BS Sand		0.00	
11,236.96	11,217.00	3rd BS Carbonate		0.00	
11,760.05	11,737.00	3rd BS Sand		0.00	
12,253.47	12,087.00	Wolfcamp A		0.00	

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
4000	3989	-41	-215	Sidetrack, Turn 2.00°/100'
4105	4094	-41	-225	Hold 5.0° Inc, 256.76° Azimuth
6285	6265	-85	-410	Drop 1.00°/100'
6785	6765	-90	-431	Hold Vertical
11,577	11,557	-90	-431	KOP, Build 10.00°/100'
12,487	12,130	493	-436	LP, Hold 91.02° Inc, 359.52° Azimuth
19,782	12,000	7787	-497	PBHL

Checked By: _____ Approved By: _____ Date: _____



Advance Energy Partners, LLC

Dagger State Com 802H
Lea County, New Mexico
Job No. WT-19-084
H&P 389
Plan 2.0 Final PVA



SITE DETAILS: Dagger State Com 802H

Site Centre Northing: 528187.50
Easting: 764584.50

Positional Uncertainty: 0.00
Convergence: 0.39
Local North: Grid



Azimuths to Grid North
True North: -0.39°
Magnetic North: 6.28°

Magnetic Field
Strength: 48118.6nT
Dip Angle: 60.24°
Date: 5/29/2019
Model: MVHD

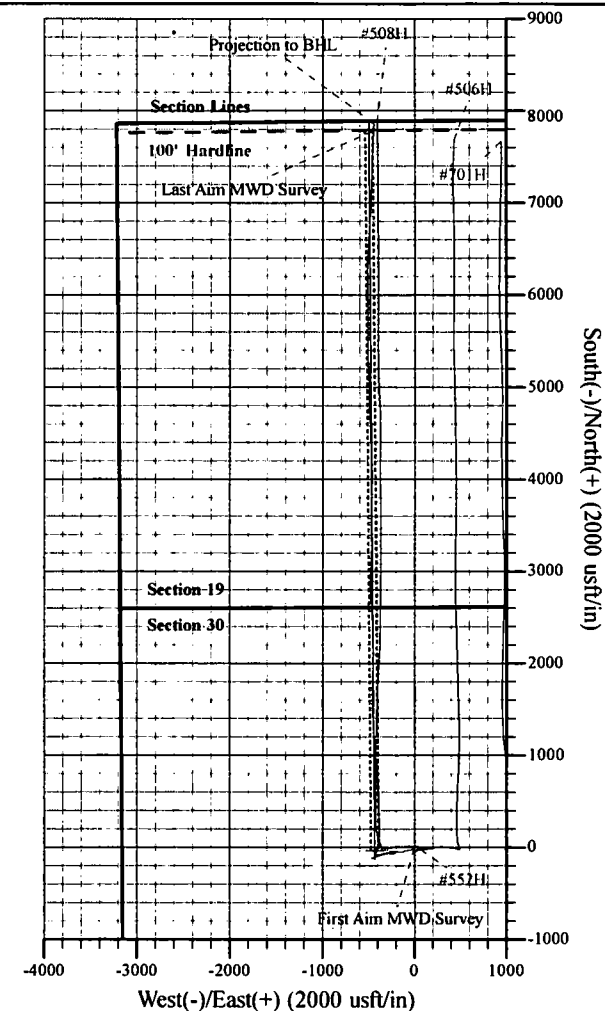
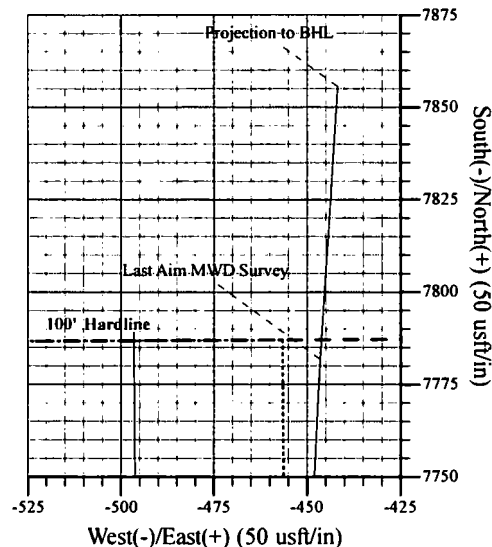
Magnetic North: 6.28° to Grid North

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:
3812'GL+26.5'KB @ 3838.50usft (H&P 389)

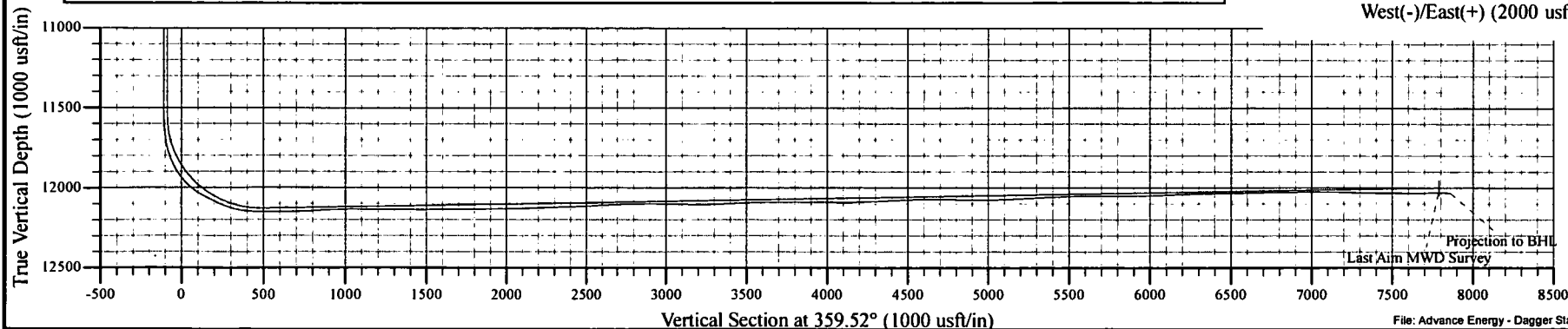


SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
1	19841.00	90.15	3.64	12031.78	7781.84	-446.50	0.00	0.00	7785.31	Last Aim MWD Survey
2	19915.00	90.15	3.64	12031.58	7855.70	-441.80	0.00	0.00	7859.12	Projection to BHL

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
FTP (Dagger802H)	0.00	-32.10	-431.70	528155.40	764152.80	32° 26' 59.612 N	103° 36' 39.620 W
PBHL (Dagger802H)	12000.00	7786.90	-496.60	535974.40	764087.90	32° 28' 16.984 N	103° 36' 39.760 W



Drawn By: IG
Date Created: 5/8/2018
Date Revised: 6/26/2018

File: Advance Energy - Dagger State Com #802H Plan 2.0 Final PVA.wpc



Survey Reports Original Hole

Dagger State Com #802H (WT-19-084)

2019-05-19 to 2019-06-30

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

Aim Directional Services, LLC

Survey Report

Company: Advance Energy Partners, LLC
Project: Lea County, New Mexico
Site: Dagger State Com 802H
Well: #802H
Wellbore: OH Surveys
Design: Aim MWD Surveys

Local Co-ordinate Reference: Site Dagger State Com 802H
TVD Reference: 3812'GL+26.5'KB @ 3838.50usft (H&P 389)
MD Reference: 3812'GL+26.5'KB @ 3838.50usft (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
Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Site Dagger State Com 802H

Site Position: **Northing:** 528,187.50 usft **Latitude:** 32° 26' 59.901 N
From: Map **Easting:** 764,584.50 usft **Longitude:** 103° 36' 34.579 W
Position Uncertainty: 0.00 usft **Slot Radius:** 13-3/16 " **Grid Convergence:** 0.39 °

Well #802H - Slot 802H

Well Position **+N/-S** 0.00 usft **Northing:** 528,187.50 usft **Latitude:** 32° 26' 59.901 N
+E/-W 0.00 usft **Easting:** 764,584.50 usft **Longitude:** 103° 36' 34.579 W
Position Uncertainty 0.00 usft **Wellhead Elevation:** usft **Ground Level:** 3,812.00 usft

Wellbore OH Surveys

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	5/21/2019	6.67	60.24	48,120.97291924

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	359.52

Survey Program Date 5/29/2019

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
198.00	4,894.00	Aim MWD Surveys (OH 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
198.00	0.92	309.59	197.99	1.01	-1.22	1.02	0.46	0.46	0.00
First Aim MWD Survey									
321.00	1.32	292.19	320.97	2.18	-3.30	2.20	0.42	0.33	-14.15
412.00	0.92	293.68	411.95	2.87	-4.94	2.91	0.44	-0.44	1.64
596.00	1.32	274.43	595.92	3.62	-8.40	3.69	0.30	0.22	-10.46
688.00	0.84	215.81	687.90	3.16	-9.85	3.24	1.24	-0.52	-63.72
780.00	1.41	201.49	779.88	1.56	-10.66	1.65	0.69	0.62	-15.57
871.00	1.58	199.90	870.85	-0.66	-11.50	-0.57	0.19	0.19	-1.75
966.00	1.45	189.09	965.82	-3.08	-12.14	-2.98	0.33	-0.14	-11.38
1,061.00	1.32	194.63	1,060.79	-5.33	-12.60	-5.22	0.20	-0.14	5.83

Aim Directional Services, LLC

Survey Report

Company: Advance Energy Partners, LLC
Project: Lea County, New Mexico
Site: Dagger State Com 802H
Well: #802H
Wellbore: OH Surveys
Design: Aim MWD Surveys

Local Co-ordinate Reference: Site Dagger State Com 802H
TVD Reference: 3812'GL+26.5'KB @ 3838.50usft (H&P 389)
MD Reference: 3812'GL+26.5'KB @ 3838.50usft (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)
1,156.00	1.23	168.61	1,155.77	-7.39	-12.68	-7.28	0.61	-0.09	-27.39
1,251.00	1.36	168.97	1,250.74	-9.49	-12.26	-9.39	0.14	0.14	0.38
1,345.00	0.88	166.77	1,344.73	-11.29	-11.88	-11.19	0.51	-0.51	-2.34
1,440.00	0.75	188.92	1,439.72	-12.61	-11.81	-12.51	0.36	-0.14	23.32
1,535.00	0.88	168.70	1,534.71	-13.94	-11.76	-13.84	0.33	0.14	-21.28
1,699.00	1.01	169.93	1,698.69	-16.60	-11.27	-16.51	0.08	0.08	0.75
1,794.00	1.01	211.42	1,793.67	-18.14	-11.56	-18.04	0.75	0.00	43.67
1,888.00	2.11	259.58	1,887.64	-19.16	-13.69	-19.04	1.72	1.17	51.23
1,983.00	3.82	261.95	1,982.51	-19.92	-18.54	-19.76	1.80	1.80	2.49
2,078.00	5.49	259.84	2,077.19	-21.16	-26.15	-20.94	1.77	1.76	-2.22
2,173.00	6.15	259.49	2,171.70	-22.89	-35.63	-22.59	0.70	0.69	-0.37
2,268.00	6.24	258.26	2,266.15	-24.87	-45.69	-24.49	0.17	0.09	-1.29
2,363.00	6.29	257.91	2,360.58	-27.01	-55.83	-26.54	0.07	0.05	-0.37
2,458.00	6.33	257.21	2,455.00	-29.26	-66.02	-28.71	0.09	0.04	-0.74
2,552.00	6.42	255.54	2,548.42	-31.72	-76.17	-31.08	0.22	0.10	-1.78
2,647.00	6.59	255.80	2,642.81	-34.39	-86.59	-33.66	0.18	0.18	0.27
2,742.00	6.46	257.38	2,737.20	-36.89	-97.09	-36.08	0.23	-0.14	1.66
2,837.00	6.11	258.00	2,831.62	-39.11	-107.26	-38.21	0.38	-0.37	0.65
2,932.00	5.58	255.98	2,926.13	-41.28	-116.68	-40.30	0.60	-0.56	-2.13
3,027.00	4.88	252.81	3,020.73	-43.59	-125.02	-42.54	0.80	-0.74	-3.34
3,122.00	5.32	252.73	3,115.36	-46.09	-133.09	-44.98	0.46	0.46	-0.08
3,217.00	5.80	264.41	3,209.91	-47.87	-142.07	-46.68	1.29	0.51	12.29
3,311.00	5.85	273.38	3,303.43	-48.05	-151.58	-46.78	0.97	0.05	9.54
3,406.00	5.36	276.72	3,397.98	-47.25	-160.82	-45.90	0.62	-0.52	3.52
3,501.00	4.53	275.93	3,492.62	-46.34	-168.96	-44.92	0.88	-0.87	-0.83
3,596.00	4.48	281.47	3,587.33	-45.21	-176.33	-43.73	0.46	-0.05	5.83
3,691.00	5.19	276.46	3,681.99	-43.99	-184.23	-42.45	0.87	0.75	-5.27
3,786.00	5.93	273.20	3,776.54	-43.23	-193.40	-41.61	0.85	0.78	-3.43
3,975.00	5.76	277.42	3,964.56	-41.46	-212.56	-39.68	0.24	-0.09	2.23
4,070.00	5.80	278.39	4,059.08	-40.15	-222.03	-38.29	0.11	0.04	1.02
4,165.00	5.80	280.06	4,153.59	-38.61	-231.51	-36.67	0.18	0.00	1.76
4,260.00	6.15	278.57	4,248.08	-37.01	-241.26	-34.99	0.40	0.37	-1.57
4,355.00	7.91	276.72	4,342.36	-35.49	-252.79	-33.37	1.87	1.85	-1.95
4,450.00	7.82	278.21	4,436.46	-33.80	-265.68	-31.57	0.23	-0.09	1.57
4,544.00	7.52	280.15	4,529.62	-31.80	-278.06	-29.47	0.42	-0.32	2.06
4,639.00	7.56	279.71	4,623.80	-29.65	-290.34	-27.22	0.07	0.04	-0.46
4,734.00	7.56	274.08	4,717.98	-28.16	-302.73	-25.62	0.78	0.00	-5.93
4,829.00	7.65	268.28	4,812.14	-27.90	-315.29	-25.26	0.81	0.09	-6.11
Last Aim MWD Survey									
4,894.00	7.65	268.28	4,876.57	-28.16	-323.94	-25.45	0.00	0.00	0.00
Projection to TD									

Aim Directional Services, LLC

Survey Report

Company:	Advance Energy Partners, LLC	Local Co-ordinate Reference:	Site Dagger State Com 802H
Project:	Lea County, New Mexico	TVD Reference:	3812'GL+26.5'KB @ 3838.50usft (H&P 389)
Site:	Dagger State Com 802H	MD Reference:	3812'GL+26.5'KB @ 3838.50usft (H&P 389)
Well:	#802H	North Reference:	Grid
Wellbore:	OH Surveys	Survey Calculation Method:	Minimum Curvature
Design:	Aim MWD Surveys	Database:	EDM 5000.14 Single User Db

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
198.00	197.99	1.01	-1.22	First Aim MWD Survey
4,829.00	4,812.14	-27.90	-315.29	Last Aim MWD Survey
4,894.00	4,876.57	-28.16	-323.94	Projection to TD



Survey Reports

Lateral

Dagger State Com #802H (WT-19-084)

2019-05-19 to 2019-06-30

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 802H
Project: Lea County, New Mexico	TVD Reference: 3812'GL+26.5'KB @ 3838.50usft (H&P 389)
Site: Dagger State Com 802H	MD Reference: 3812'GL+26.5'KB @ 3838.50usft (H&P 389)
Well: #802H	North Reference: Grid
Wellbore: Lateral 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 802H		
Site Position:	Northing: 528,187.50 usft	Latitude: 32° 26' 59.901 N
From: Map	Easting: 764,584.50 usft	Longitude: 103° 36' 34.579 W
Position Uncertainty: 0.00 usft	Slot Radius: 13-3/16 "	Grid Convergence: 0.39 °

Well #802H - Slot 802H		
Well Position +N/-S 0.00 usft	Northing: 528,187.50 usft	Latitude: 32° 26' 59.901 N
+E/-W 0.00 usft	Easting: 764,584.50 usft	Longitude: 103° 36' 34.579 W
Position Uncertainty 0.00 usft	Wellhead Elevation: usft	Ground Level: 3,812.00 usft

Wellbore Lateral Surveys		
Magnetics	Model Name	Sample Date
	MVHD	6/5/2019
	Declination (°)	Dip Angle (°)
	6.67	60.24
		Field Strength (nT)
		48,116.48194773

Design Aim MWD Surveys		
Audit Notes:		
Version: 1.0	Phase: ACTUAL	Tie On Depth: 3,786.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)
	0.00	0.00
		+E/-W (usft)
		0.00
		Direction (°)
		359.52

Survey Program	Date 6/26/2019	
From (usft)	To (usft)	Survey (Wellbore)
198.00	3,786.00	Aim MWD Surveys (OH Surveys)
3,850.00	19,915.00	Aim MWD Surveys (Lateral Surveys)
		Tool Name
		B001Mb_MWD+HRGM
		Description
		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
198.00	0.92	309.59	197.99	1.01	-1.22	1.02	0.46	0.46	0.00
321.00	1.32	292.19	320.97	2.18	-3.30	2.20	0.42	0.33	-14.15
412.00	0.92	293.68	411.95	2.87	-4.94	2.91	0.44	-0.44	1.64
596.00	1.32	274.43	595.92	3.62	-8.40	3.69	0.30	0.22	-10.46
688.00	0.84	215.81	687.90	3.16	-9.85	3.24	1.24	-0.52	-63.72
780.00	1.41	201.49	779.88	1.56	-10.66	1.65	0.69	0.62	-15.57
871.00	1.58	199.90	870.85	-0.66	-11.50	-0.57	0.19	0.19	-1.75
966.00	1.45	189.09	965.82	-3.08	-12.14	-2.98	0.33	-0.14	-11.38
1,061.00	1.32	194.63	1,060.79	-5.33	-12.60	-5.22	0.20	-0.14	5.83

Aim Directional Services, LLC

Survey Report

Company:	Advance Energy Partners, LLC	Local Co-ordinate Reference:	Site Dagger State Com 802H
Project:	Lea County, New Mexico	TVD Reference:	3812'GL+26.5'KB @ 3838.50usft (H&P 389)
Site:	Dagger State Com 802H	MD Reference:	3812'GL+26.5'KB @ 3838.50usft (H&P 389)
Well:	#802H	North Reference:	Grid
Wellbore:	Lateral 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)
1,156.00	1.23	168.61	1,155.77	-7.39	-12.68	-7.28	0.61	-0.09	-27.39
1,251.00	1.36	168.97	1,250.74	-9.49	-12.26	-9.39	0.14	0.14	0.38
1,345.00	0.88	166.77	1,344.73	-11.29	-11.88	-11.19	0.51	-0.51	-2.34
1,440.00	0.75	188.92	1,439.72	-12.61	-11.81	-12.51	0.36	-0.14	23.32
1,535.00	0.88	168.70	1,534.71	-13.94	-11.76	-13.84	0.33	0.14	-21.28
1,699.00	1.01	169.93	1,698.69	-16.60	-11.27	-16.51	0.08	0.08	0.75
1,794.00	1.01	211.42	1,793.67	-18.14	-11.56	-18.04	0.75	0.00	43.67
1,888.00	2.11	259.58	1,887.64	-19.16	-13.69	-19.04	1.72	1.17	51.23
1,983.00	3.82	261.95	1,982.51	-19.92	-18.54	-19.76	1.80	1.80	2.49
2,078.00	5.49	259.84	2,077.19	-21.16	-26.15	-20.94	1.77	1.76	-2.22
2,173.00	6.15	259.49	2,171.70	-22.89	-35.63	-22.59	0.70	0.69	-0.37
2,268.00	6.24	258.26	2,266.15	-24.87	-45.69	-24.49	0.17	0.09	-1.29
2,363.00	6.29	257.91	2,360.58	-27.01	-55.83	-26.54	0.07	0.05	-0.37
2,458.00	6.33	257.21	2,455.00	-29.26	-66.02	-28.71	0.09	0.04	-0.74
2,552.00	6.42	255.54	2,548.42	-31.72	-76.17	-31.08	0.22	0.10	-1.78
2,647.00	6.59	255.80	2,642.81	-34.39	-86.59	-33.66	0.18	0.18	0.27
2,742.00	6.46	257.38	2,737.20	-36.89	-97.09	-36.08	0.23	-0.14	1.66
2,837.00	6.11	258.00	2,831.62	-39.11	-107.26	-38.21	0.38	-0.37	0.65
2,932.00	5.58	255.98	2,926.13	-41.28	-116.68	-40.30	0.60	-0.56	-2.13
3,027.00	4.88	252.81	3,020.73	-43.59	-125.02	-42.54	0.80	-0.74	-3.34
3,122.00	5.32	252.73	3,115.36	-46.09	-133.09	-44.98	0.46	0.46	-0.08
3,217.00	5.80	264.41	3,209.91	-47.87	-142.07	-46.68	1.29	0.51	12.29
3,311.00	5.85	273.38	3,303.43	-48.05	-151.58	-46.78	0.97	0.05	9.54
3,406.00	5.36	276.72	3,397.98	-47.25	-160.82	-45.90	0.62	-0.52	3.52
3,501.00	4.53	275.93	3,492.62	-46.34	-168.96	-44.92	0.88	-0.87	-0.83
3,596.00	4.48	281.47	3,587.33	-45.21	-176.33	-43.73	0.46	-0.05	5.83
3,691.00	5.19	276.46	3,681.99	-43.99	-184.23	-42.45	0.87	0.75	-5.27
3,786.00	5.93	273.20	3,776.54	-43.23	-193.40	-41.61	0.85	0.78	-3.43
Tie-on to OH Surveys									
3,850.00	4.80	265.60	3,840.26	-43.26	-199.37	-41.58	2.08	-1.77	-11.88
First Lateral Survey									
3,862.00	4.10	256.70	3,852.23	-43.39	-200.29	-41.71	8.18	-5.83	-74.17
3,880.00	3.60	227.41	3,870.19	-43.92	-201.33	-42.23	11.14	-2.78	-162.72
4,006.00	8.04	220.56	3,995.51	-53.30	-209.98	-51.54	3.56	3.52	-5.44
4,164.00	5.19	248.16	4,152.48	-64.36	-223.80	-62.48	2.65	-1.80	17.47
4,259.00	4.40	264.85	4,247.15	-66.28	-231.42	-64.34	1.68	-0.83	17.57
4,354.00	4.53	274.43	4,341.86	-66.32	-238.79	-64.32	0.80	0.14	10.08
4,449.00	4.48	274.79	4,436.57	-65.72	-246.23	-63.66	0.06	-0.05	0.38
4,544.00	4.35	275.05	4,531.29	-65.09	-253.52	-62.97	0.14	-0.14	0.27
4,638.00	4.53	273.73	4,625.00	-64.54	-260.77	-62.35	0.22	0.19	-1.40
4,733.00	4.35	273.12	4,719.72	-64.10	-268.11	-61.85	0.20	-0.19	-0.64
4,828.00	4.35	274.35	4,814.45	-63.63	-275.30	-61.32	0.10	0.00	1.29
4,923.00	4.35	274.61	4,909.17	-63.07	-282.49	-60.70	0.02	0.00	0.27

Aim Directional Services, LLC

Survey Report

Company: Advance Energy Partners, LLC
Project: Lea County, New Mexico
Site: Dagger State Com 802H
Well: #802H
Wellbore: Lateral Surveys
Design: Aim MWD Surveys

Local Co-ordinate Reference: Site Dagger State Com 802H
TVD Reference: 3812'GL+26.5'KB @ 3838.50usft (H&P 389)
MD Reference: 3812'GL+26.5'KB @ 3838.50usft (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)
5,018.00	4.13	265.73	5,003.91	-63.03	-289.49	-60.60	0.73	-0.23	-9.35
5,112.00	3.96	262.04	5,097.68	-63.73	-296.08	-61.25	0.33	-0.18	-3.93
5,207.00	3.78	261.69	5,192.46	-64.64	-302.43	-62.10	0.19	-0.19	-0.37
5,302.00	3.69	259.67	5,287.26	-65.64	-308.53	-63.05	0.17	-0.09	-2.13
5,397.00	3.78	256.42	5,382.06	-66.92	-314.58	-64.29	0.24	0.09	-3.42
5,491.00	4.00	254.75	5,475.84	-68.51	-320.76	-65.82	0.26	0.23	-1.78
5,586.00	3.74	254.04	5,570.63	-70.24	-326.93	-67.50	0.28	-0.27	-0.75
5,681.00	3.34	254.75	5,665.44	-71.82	-332.58	-69.03	0.42	-0.42	0.75
5,776.00	4.18	256.68	5,760.24	-73.34	-338.62	-70.50	0.89	0.88	2.03
5,871.00	4.66	253.78	5,854.96	-75.22	-345.70	-72.32	0.56	0.51	-3.05
5,965.00	4.62	253.60	5,948.65	-77.35	-353.00	-74.39	0.05	-0.04	-0.19
6,060.00	4.44	253.87	6,043.35	-79.46	-360.20	-76.43	0.19	-0.19	0.28
6,155.00	4.22	252.11	6,138.08	-81.55	-367.06	-78.47	0.27	-0.23	-1.85
6,250.00	4.04	252.55	6,232.83	-83.63	-373.58	-80.50	0.19	-0.19	0.46
6,345.00	3.91	252.64	6,327.61	-85.60	-379.86	-82.41	0.14	-0.14	0.09
6,440.00	3.78	250.88	6,422.39	-87.59	-385.91	-84.35	0.18	-0.14	-1.85
6,534.00	3.74	252.11	6,516.19	-89.55	-391.76	-86.26	0.10	-0.04	1.31
6,629.00	3.65	249.74	6,610.99	-91.55	-397.54	-88.21	0.19	-0.09	-2.49
6,724.00	3.38	252.11	6,705.81	-93.45	-403.04	-90.07	0.32	-0.28	2.49
6,819.00	3.38	252.29	6,800.65	-95.17	-408.38	-91.74	0.01	0.00	0.19
6,913.00	3.25	249.91	6,894.49	-96.92	-413.52	-93.46	0.20	-0.14	-2.53
7,008.00	3.08	250.26	6,989.35	-98.71	-418.45	-95.20	0.18	-0.18	0.37
7,103.00	3.03	247.72	7,084.21	-100.52	-423.17	-96.98	0.15	-0.05	-2.67
7,198.00	3.16	244.02	7,179.07	-102.62	-427.85	-99.04	0.25	0.14	-3.89
7,293.00	2.95	243.76	7,273.94	-104.85	-432.40	-101.22	0.22	-0.22	-0.27
7,388.00	2.86	243.15	7,368.81	-107.00	-436.71	-103.34	0.10	-0.09	-0.64
7,482.00	2.64	239.19	7,462.71	-109.17	-440.66	-105.47	0.31	-0.23	-4.21
7,577.00	2.51	239.01	7,557.61	-111.36	-444.32	-107.64	0.14	-0.14	-0.19
7,672.00	2.33	243.67	7,652.53	-113.29	-447.83	-109.53	0.28	-0.19	4.91
7,767.00	1.67	246.40	7,747.47	-114.70	-450.83	-110.92	0.70	-0.69	2.87
7,861.00	1.45	252.81	7,841.43	-115.60	-453.22	-111.80	0.30	-0.23	6.82
7,956.00	1.49	247.63	7,936.40	-116.43	-455.51	-112.61	0.15	0.04	-5.45
8,052.00	0.84	246.13	8,032.38	-117.19	-457.31	-113.35	0.68	-0.68	-1.56
8,146.00	0.44	281.11	8,126.38	-117.39	-458.30	-113.55	0.58	-0.43	37.21
8,241.00	0.40	298.96	8,221.37	-117.16	-458.94	-113.31	0.14	-0.04	18.79
8,336.00	0.22	287.88	8,316.37	-116.95	-459.41	-113.09	0.20	-0.19	-11.66
8,431.00	0.26	297.20	8,411.37	-116.79	-459.77	-112.94	0.06	0.04	9.81
8,526.00	0.18	318.29	8,506.37	-116.58	-460.06	-112.72	0.12	-0.08	22.20
8,621.00	0.26	255.80	8,601.37	-116.52	-460.37	-112.66	0.25	0.08	-65.78
8,715.00	0.22	250.97	8,695.37	-116.64	-460.75	-112.77	0.05	-0.04	-5.14
8,810.00	0.22	259.93	8,790.37	-116.73	-461.10	-112.86	0.04	0.00	9.43
8,905.00	0.44	269.78	8,885.37	-116.76	-461.65	-112.89	0.24	0.23	10.37
8,962.00	0.26	295.00	8,942.37	-116.71	-461.98	-112.83	0.41	-0.32	44.25
9,057.00	0.57	44.69	9,037.36	-116.28	-461.85	-112.41	0.74	0.33	115.46

Aim Directional Services, LLC

Survey Report

Company:	Advance Energy Partners, LLC	Local Co-ordinate Reference:	Site Dagger State Com 802H
Project:	Lea County, New Mexico	TVD Reference:	3812'GL+26.5'KB @ 3838.50usft (H&P 389)
Site:	Dagger State Com 802H	MD Reference:	3812'GL+26.5'KB @ 3838.50usft (H&P 389)
Well:	#802H	North Reference:	Grid
Wellbore:	Lateral 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)
9,152.00	1.14	51.28	9,132.35	-115.35	-460.78	-111.49	0.61	0.60	6.94
9,247.00	1.19	47.24	9,227.33	-114.09	-459.31	-110.24	0.10	0.05	-4.25
9,342.00	1.32	37.48	9,322.31	-112.55	-457.92	-108.71	0.26	0.14	-10.27
9,437.00	1.05	35.46	9,417.29	-110.98	-456.75	-107.15	0.29	-0.28	-2.13
9,531.00	0.84	84.50	9,511.28	-110.21	-455.57	-106.39	0.86	-0.22	52.17
9,626.00	1.67	115.88	9,606.26	-110.75	-453.63	-106.94	1.10	0.87	33.03
9,721.00	2.24	121.33	9,701.20	-112.32	-450.80	-108.53	0.63	0.60	5.74
9,816.00	2.37	110.69	9,796.12	-113.97	-447.37	-110.22	0.47	0.14	-11.20
9,911.00	2.59	99.88	9,891.04	-115.04	-443.42	-111.32	0.54	0.23	-11.38
10,006.00	2.07	72.37	9,985.96	-114.89	-439.67	-111.20	1.28	-0.55	-28.96
10,101.00	2.07	63.85	10,080.90	-113.61	-436.50	-109.95	0.32	0.00	-8.97
10,196.00	1.98	69.74	10,175.84	-112.29	-433.42	-108.65	0.24	-0.09	6.20
10,290.00	1.71	79.84	10,269.79	-111.48	-430.51	-107.87	0.45	-0.29	10.74
10,385.00	1.36	78.79	10,364.76	-111.01	-428.01	-107.42	0.37	-0.37	-1.11
10,480.00	1.19	72.29	10,459.73	-110.49	-425.97	-106.91	0.23	-0.18	-6.84
10,575.00	0.57	21.05	10,554.72	-109.75	-424.86	-106.18	0.99	-0.65	-53.94
10,669.00	0.31	1.62	10,648.72	-109.06	-424.68	-105.49	0.32	-0.28	-20.67
10,744.00	0.09	256.94	10,723.72	-108.87	-424.73	-105.30	0.46	-0.29	-139.57
10,840.00	0.44	133.28	10,819.72	-109.14	-424.54	-105.58	0.52	0.36	-128.81
10,935.00	1.27	166.68	10,914.71	-110.41	-424.03	-106.85	0.98	0.87	35.16
11,031.00	0.84	218.18	11,010.69	-112.00	-424.22	-108.44	1.04	-0.45	53.65
11,126.00	0.62	257.65	11,105.68	-112.66	-425.15	-109.09	0.56	-0.23	41.55
11,221.00	0.88	283.49	11,200.68	-112.60	-426.36	-109.02	0.44	0.27	27.20
11,315.00	1.45	320.66	11,294.66	-111.51	-427.82	-107.92	0.98	0.61	39.54
11,412.00	1.01	159.65	11,391.65	-111.36	-428.30	-107.77	2.50	-0.45	-165.99
11,506.00	1.89	194.10	11,485.62	-113.64	-428.39	-110.05	1.28	0.94	36.65
11,602.00	2.73	325.94	11,581.58	-113.28	-430.06	-109.67	4.41	0.88	137.33
11,650.00	6.77	358.90	11,629.42	-109.50	-430.75	-105.89	9.83	8.42	68.67
11,698.00	7.30	1.45	11,677.05	-103.63	-430.73	-100.01	1.28	1.10	5.31
11,761.00	12.97	10.06	11,739.05	-92.65	-429.39	-89.05	9.29	9.00	13.67
11,793.00	15.56	12.26	11,770.06	-84.92	-427.85	-81.34	8.27	8.09	6.88
11,841.00	21.14	12.43	11,815.60	-70.17	-424.62	-66.61	11.63	11.63	0.35
11,887.00	26.55	14.72	11,857.66	-52.11	-420.22	-48.59	11.93	11.76	4.98
11,935.00	32.84	17.00	11,899.34	-29.26	-413.68	-25.80	13.31	13.10	4.75
11,981.00	38.07	17.79	11,936.79	-3.81	-405.70	-0.42	11.41	11.37	1.72
12,029.00	44.62	13.84	11,972.82	26.68	-397.13	30.01	14.68	13.65	-8.23
12,076.00	51.16	10.67	12,004.32	60.74	-389.79	64.00	14.78	13.91	-6.74
12,124.00	57.23	6.19	12,032.40	99.22	-384.14	102.44	14.73	12.65	-9.33
12,171.00	61.58	2.68	12,056.32	139.54	-381.04	142.73	11.27	9.26	-7.47
12,219.00	64.18	0.04	12,078.20	182.24	-380.04	185.42	7.30	5.42	-5.50
12,267.00	64.09	358.11	12,099.14	225.43	-380.74	228.61	3.62	-0.19	-4.02
12,314.00	68.70	356.70	12,117.96	268.44	-382.69	271.63	10.19	9.81	-3.00
12,361.00	75.38	355.91	12,132.44	313.03	-385.58	316.25	14.30	14.21	-1.68

Aim Directional Services, LLC

Survey Report

Company: Advance Energy Partners, LLC
Project: Lea County, New Mexico
Site: Dagger State Com 802H
Well: #802H
Wellbore: Lateral Surveys
Design: Aim MWD Surveys

Local Co-ordinate Reference: Site Dagger State Com 802H
TVD Reference: 3812'GL+26.5'KB @ 3838.50usft (H&P 389)
MD Reference: 3812'GL+26.5'KB @ 3838.50usft (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)
12,408.00	80.70	358.11	12,142.18	358.92	-387.97	362.16	12.21	11.32	4.68
12,456.00	84.44	0.22	12,148.39	406.50	-388.66	409.75	8.93	7.79	4.40
12,496.00	89.27	359.42	12,150.58	446.43	-388.78	449.67	12.24	12.08	-2.00
12,566.00	88.84	358.72	12,151.74	516.41	-389.92	519.66	1.17	-0.61	-1.00
12,661.00	89.98	357.40	12,152.71	611.35	-393.14	614.62	1.84	1.20	-1.39
12,756.00	92.66	356.70	12,150.53	706.19	-398.02	709.50	2.92	2.82	-0.74
12,850.00	93.85	354.50	12,145.19	799.75	-405.22	803.12	2.66	1.27	-2.34
12,945.00	92.66	354.24	12,139.79	894.14	-414.53	897.58	1.28	-1.25	-0.27
13,039.00	91.16	354.85	12,136.66	987.66	-423.46	991.17	1.72	-1.60	0.65
13,134.00	90.86	355.82	12,134.99	1,082.33	-431.18	1,085.90	1.07	-0.32	1.02
13,228.00	89.85	356.79	12,134.40	1,176.13	-437.24	1,179.75	1.49	-1.07	1.03
13,323.00	88.40	357.49	12,135.86	1,271.00	-441.98	1,274.66	1.69	-1.53	0.74
13,418.00	88.70	355.91	12,138.26	1,365.81	-447.45	1,369.51	1.69	0.32	-1.66
13,513.00	90.42	358.28	12,138.99	1,460.67	-452.26	1,464.41	3.08	1.81	2.49
13,607.00	91.47	358.99	12,137.44	1,554.63	-454.50	1,558.38	1.35	1.12	0.76
13,702.00	90.46	359.42	12,135.84	1,649.61	-455.82	1,653.37	1.16	-1.06	0.45
13,797.00	90.46	1.97	12,135.08	1,744.59	-454.66	1,748.34	2.68	0.00	2.68
13,892.00	90.77	1.89	12,134.06	1,839.53	-451.47	1,843.25	0.34	0.33	-0.08
13,986.00	90.46	3.73	12,133.05	1,933.41	-446.86	1,937.08	1.98	-0.33	1.96
14,081.00	90.15	359.69	12,132.54	2,028.34	-444.02	2,031.99	4.27	-0.33	-4.25
14,176.00	92.35	358.37	12,130.47	2,123.30	-445.63	2,126.96	2.70	2.32	-1.39
14,272.00	92.88	359.78	12,126.09	2,219.18	-447.18	2,222.85	1.57	0.55	1.47
14,367.00	91.47	357.67	12,122.48	2,314.08	-449.29	2,317.77	2.67	-1.48	-2.22
14,462.00	92.22	356.88	12,119.42	2,408.93	-453.81	2,412.64	1.15	0.79	-0.83
14,556.00	93.23	356.08	12,114.96	2,502.64	-459.57	2,506.40	1.37	1.07	-0.85
14,650.00	92.04	357.49	12,110.63	2,596.39	-464.84	2,600.19	1.96	-1.27	1.50
14,745.00	92.75	356.08	12,106.66	2,691.15	-470.16	2,695.00	1.66	0.75	-1.48
14,839.00	92.35	358.63	12,102.48	2,784.95	-474.49	2,788.83	2.74	-0.43	2.71
14,934.00	89.71	1.18	12,100.77	2,879.92	-474.65	2,883.80	3.86	-2.78	2.68
15,028.00	89.23	1.53	12,101.64	2,973.89	-472.42	2,977.74	0.63	-0.51	0.37
15,122.00	88.75	2.50	12,103.30	3,067.82	-469.12	3,071.64	1.15	-0.51	1.03
15,216.00	88.09	1.45	12,105.89	3,161.72	-465.88	3,165.51	1.32	-0.70	-1.12
15,312.00	91.91	0.92	12,105.89	3,257.68	-463.90	3,261.46	4.02	3.98	-0.55
15,406.00	92.92	358.99	12,101.93	3,351.59	-463.97	3,355.36	2.32	1.07	-2.05
15,500.00	93.36	357.93	12,096.78	3,445.42	-466.49	3,449.21	1.22	0.47	-1.13
15,594.00	92.92	359.25	12,091.63	3,539.25	-468.80	3,543.05	1.48	-0.47	1.40
15,689.00	90.20	1.45	12,089.05	3,634.19	-468.22	3,637.99	3.68	-2.86	2.32
15,783.00	89.54	1.45	12,089.26	3,728.16	-465.84	3,731.94	0.70	-0.70	0.00
15,876.00	89.93	2.32	12,089.69	3,821.11	-462.78	3,824.85	1.03	0.42	0.94
15,971.00	89.89	3.03	12,089.84	3,916.01	-458.35	3,919.71	0.75	-0.04	0.75
16,066.00	89.58	359.07	12,090.28	4,010.97	-456.61	4,014.66	4.18	-0.33	-4.17
16,160.00	89.19	357.49	12,091.29	4,104.92	-459.43	4,108.62	1.73	-0.41	-1.68
16,255.00	92.22	357.58	12,090.12	4,199.81	-463.51	4,203.55	3.19	3.19	0.09

Aim Directional Services, LLC

Survey Report

Company: Advance Energy Partners, LLC
Project: Lea County, New Mexico
Site: Dagger State Com 802H
Well: #802H
Wellbore: Lateral Surveys
Design: Aim MWD Surveys

Local Co-ordinate Reference: Site Dagger State Com 802H
TVD Reference: 3812'GL+26.5'KB @ 3838.50usft (H&P 389)
MD Reference: 3812'GL+26.5'KB @ 3838.50usft (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)
16,350.00	92.44	357.58	12,086.26	4,294.65	-467.52	4,298.42	0.23	0.23	0.00
16,447.00	92.88	358.02	12,081.75	4,391.47	-471.24	4,395.27	0.64	0.45	0.45
16,538.00	92.57	358.19	12,077.43	4,482.32	-474.25	4,486.14	0.39	-0.34	0.19
16,633.00	91.74	356.44	12,073.86	4,577.15	-478.70	4,581.00	2.04	-0.87	-1.84
16,727.00	89.45	358.37	12,072.88	4,671.03	-482.95	4,674.92	3.19	-2.44	2.05
16,821.00	88.53	358.55	12,074.54	4,764.98	-485.48	4,768.88	1.00	-0.98	0.19
16,916.00	88.09	358.63	12,077.34	4,859.91	-487.81	4,863.83	0.47	-0.46	0.08
17,010.00	90.99	359.07	12,078.09	4,953.88	-489.70	4,957.81	3.12	3.09	0.47
17,104.00	91.78	358.81	12,075.82	5,047.84	-491.44	5,051.78	0.88	0.84	-0.28
17,198.00	92.31	357.58	12,072.47	5,141.73	-494.40	5,145.69	1.42	0.56	-1.31
17,293.00	93.54	356.08	12,067.62	5,236.45	-499.64	5,240.46	2.04	1.29	-1.58
17,387.00	92.84	358.28	12,062.39	5,330.19	-504.26	5,334.23	2.45	-0.74	2.34
17,482.00	92.92	359.51	12,057.61	5,425.05	-506.09	5,429.10	1.30	0.08	1.29
17,576.00	92.26	1.53	12,053.36	5,518.94	-505.24	5,522.98	2.26	-0.70	2.15
17,670.00	89.98	1.62	12,051.53	5,612.88	-502.65	5,616.90	2.43	-2.43	0.10
17,765.00	89.98	0.48	12,051.56	5,707.87	-500.91	5,711.86	1.20	0.00	-1.20
17,859.00	89.98	359.51	12,051.59	5,801.87	-500.92	5,805.86	1.03	0.00	-1.03
17,953.00	90.46	359.16	12,051.23	5,895.86	-502.01	5,899.86	0.63	0.51	-0.37
18,048.00	91.38	358.19	12,049.71	5,990.82	-504.21	5,994.83	1.41	0.97	-1.02
18,142.00	93.49	358.90	12,045.71	6,084.70	-506.59	6,088.73	2.37	2.24	0.76
18,236.00	92.04	359.69	12,041.18	6,178.58	-507.75	6,182.61	1.76	-1.54	0.84
18,331.00	91.47	359.60	12,038.27	6,273.53	-508.34	6,277.57	0.61	-0.60	-0.09
18,425.00	91.47	0.92	12,035.86	6,367.50	-507.91	6,371.53	1.40	0.00	1.40
18,520.00	90.77	3.82	12,034.00	6,462.39	-503.98	6,466.38	3.14	-0.74	3.05
18,614.00	91.03	2.41	12,032.52	6,556.23	-498.87	6,560.18	1.53	0.28	-1.50
18,709.00	91.03	4.35	12,030.82	6,651.05	-493.27	6,654.95	2.04	0.00	2.04
18,803.00	90.73	2.50	12,029.37	6,744.87	-487.66	6,748.71	1.99	-0.32	-1.97
18,897.00	90.73	3.56	12,028.18	6,838.73	-482.69	6,842.53	1.13	0.00	1.13
18,992.00	91.08	3.20	12,026.67	6,933.55	-477.09	6,937.30	0.53	0.37	-0.38
19,086.00	90.42	1.36	12,025.44	7,027.46	-473.35	7,031.18	2.08	-0.70	-1.96
19,180.00	89.05	1.27	12,025.88	7,121.43	-471.19	7,125.13	1.46	-1.46	-0.10
19,274.00	88.26	1.09	12,028.09	7,215.39	-469.26	7,219.06	0.86	-0.84	-0.19
19,369.00	88.04	2.41	12,031.15	7,310.29	-466.36	7,313.94	1.41	-0.23	1.39
19,464.00	90.29	2.68	12,032.54	7,405.18	-462.14	7,408.79	2.39	2.37	0.28
19,558.00	89.71	2.32	12,032.54	7,499.09	-458.04	7,502.66	0.73	-0.62	-0.38
19,652.00	90.29	2.41	12,032.54	7,593.01	-454.16	7,596.55	0.62	0.62	0.10
19,746.00	90.24	1.62	12,032.10	7,686.95	-450.86	7,690.46	0.84	-0.05	-0.84
19,841.00	90.15	3.64	12,031.78	7,781.84	-446.50	7,785.31	2.13	-0.09	2.13
Last Aim MWD Survey									
19,915.00	90.15	3.64	12,031.58	7,855.70	-441.80	7,859.12	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 State Com 802H
Project:	Lea County, New Mexico	TVD Reference:	3812'GL+26.5'KB @ 3838.50usft (H&P 389)
Site:	Dagger State Com 802H	MD Reference:	3812'GL+26.5'KB @ 3838.50usft (H&P 389)
Well:	#802H	North Reference:	Grid
Wellbore:	Lateral Surveys	Survey Calculation Method:	Minimum Curvature
Design:	Aim MWD Surveys	Database:	EDM 5000.14 Single User Db

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
3,786.00	3,776.54	-43.23	-193.40	Tie-on to OH Surveys
3,850.00	3,840.26	-43.26	-199.37	First Lateral Survey
19,841.00	12,031.78	7,781.84	-446.50	Last Aim MWD Survey
19,915.00	12,031.58	7,855.70	-441.80	Projection to BHL