

Well Name: ANDERSON FED COM	Well Location: T22S / R32E / SEC 2 / LOT 2 /	County or Parish/State:
Well Number: 503H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM120905	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002548994	Well Status: Approved Application for Permit to Drill	Operator: ADVANCE ENERGY PARTNERS HAT MESA LLC

Notice of Intent

Type of Submission: Notice of Intent	Type of Action Other
Date Sundry Submitted: 08/05/2021	Time Sundry Submitted: 12:37
Date proposed operation will begin: 08/13/2021	

Procedure Description: Request to move Surface Hole Location from 180' FNL & 2281' FEL, Section 2, T-22-S, R-32-E, Lot 2 to 180' FNL & 2413' FEL, Section 2, T-22-S, R-32-E, Lot 2 and Bottom Hole Location from 1220' FSL & 1650' FEL, Section 26, T-21-S, R-32-E, SWSE to 1220' FSL & 2178' FEL, Section 26, T-21-S, R-32-E, SWSE. Please see attached drill plan, directional plan, and plats for detailed information regarding changes to casing, cement, and mud programs.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

Anderson_503H_SHL_BHL_etc_Sundry_Attachments_20210805123531.pdf

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Lease Number: NMNM120905	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002548994	Well Status: Approved Application for Permit to Drill	Operator: ADVANCE ENERGY PARTNERS HAT MESA LLC

Conditions of Approval

Additional Reviews

Anderson_Fed_Com_503H_Dr_COA_Sundry_ID_2627396_20210806102449.pdf

Operator Certification

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: BRIAN WOOD	Signed on: AUG 05, 2021 12:35 PM
Name: ADVANCE ENERGY PARTNERS HAT MESA LLC	
Title: President	
Street Address: 37 VERANO LOOP	
City: SANTA FE	State: NM
Phone: (505) 466-8120	
Email address: AFMSS@PERMITSWEST.COM	

Field Representative

Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5752342234	BLM POC Email Address: cwalls@blm.gov
Disposition: Approved	Disposition Date: 08/06/2021
Signature: Chris Walls	

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone (505) 393-8161 Fax: (505) 393-0720

DISTRICT II
811 S. First St., Artesia, NM 88210
Phone (505) 748-1283 Fax: (505) 748-9720

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3480 Fax: (505) 476-3482

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102

Revised August 4, 2011

Submit one copy to appropriate
District Office

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-48994	Pool Code 51683	Pool Name Red Tank; Bone Spring
Property Code 326484	Property Name ANDERSON FED COM	Well Number 503H
OGRID No. 372417	Operator Name ADVANCE ENERGY PARTNERS HAT MESA, LLC	Elevation 3666'

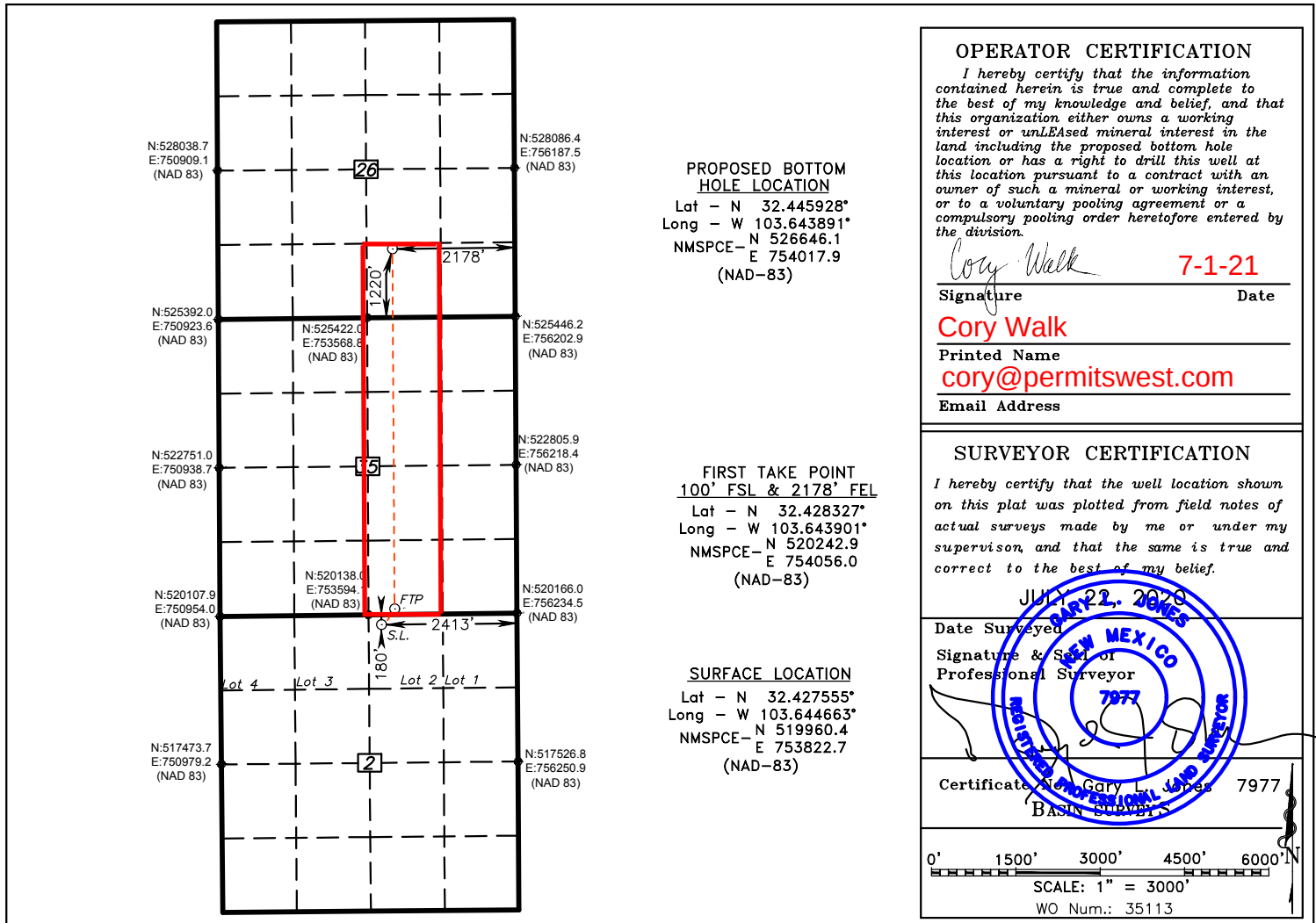
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	SOUTH/South line	Feet from the	East/West line	County
LOT 2	2	22 S	32 E		180	NORTH	2413	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	SOUTH/South line	Feet from the	East/West line	County
O	26	21 S	32 E		1220	SOUTH	2178	EAST	LEA
Dedicated Acres 200	Joint or Infill	Consolidation Code C	Order No.						

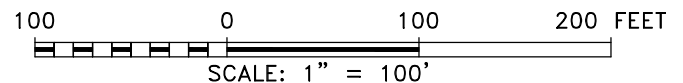
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



Site plan of the proposed 6.43-acre solar farm. The plan shows a rectangular area with dimensions 700' by 400'. A north arrow is located on the left side. The plan includes labels for the proposed solar panels (503H, 555H, 556H, 703H, 603H, 507H) and the proposed solar inverters (33', 33', 33', 33', 33', 33'). The area is divided into sections with dimensions 225', 150', 250', and 310'. The total area is labeled as 6.43 acres.



P.O. Box 1786 (575) 393-7316 - Office
1120 N. West County Rd. (575) 392-2206 - Fax
Hobbs, New Mexico 88241 basinsurveys.com



THE ANDERSON FED COM 503H LOCATED 180' FROM
THE NORTH LINE AND 2413' FROM THE EAST LINE OF
SECTION 2, TOWNSHIP 22 SOUTH, RANGE 32 EAST.
N.M.P.M., LEA COUNTY, NEW MEXICO.

CHANGE TO PLANS

Move Surface Hole Location

From: 180' FNL & 2281' FEL, Section 2, T-22-S, R-32-E, Lot 2

To: 180' FNL & 2413' FEL, Section 2, T-22-S, R-32-E, Lot 2

Move First Take Point

From: 100' FSL & 1650' FEL, Section 35, T-21-S, R-32-E, SWSE

To: 100' FSL & 2178' FEL, Section 35, T-21-S, R-32-E, SWSE

Move Bottom Hole Location

From: 1220' FSL & 1650' FEL, Section 26, T-21-S, R-32-E, SWSE

To: 1220' FSL & 2178' FEL, Section 26, T-21-S, R-32-E, SWSE

Producing Formation

From: 2nd Bone Spring

To: 1st Bone Spring

Please see attached drill plan, directional plan, and plats for additional information.

Advance Energy Partners Hat Mesa, LLC
 Anderson Fed Com 503H
 SHL 180' FNL & 2413' FEL Sec. 2, T. 22 S., R. 32 E.
 BHL 1220' FSL & 2178' FEL Sec. 26, T 21 S., R. 32 E.
 Lea County, NM

DRILL PLAN PAGE 1

Drilling Program

1. ESTIMATED TOPS

Formation	TVD	MD	Bearing
Quaternary caliche	000'	000'	water
Rustler anhydrite (surf csg set @ 1219')	1194'	1194'	N/A
Top salt	1401'	1401'	N/A
Tansil limestone (int csg set @ 4722')	3281'	3281'	N/A
Bell Canyon limestone	4772'	4772'	hydrocarbons
Cherry Canyon sandstone	5681'	5681'	hydrocarbons
Lower Brushy Canyon sandstone	8419'	8429'	hydrocarbons
Avalon shale	8939'	8951'	hydrocarbons
(KOP	9723'	9729'	hydrocarbons)
1 st Bone Spring sandstone	9806'	9822'	hydrocarbons
TD	10200'	16894'	hydrocarbons

2. NOTABLE ZONES

First Bone is the goal. Closest water well (CP 01701 POD 1) is 0.64-mile northwest. Water bearing strata were reported at 560' in this 840' deep well.

3. PRESSURE CONTROL

See attached 5000 psi Helmerich & Payne BOP Testing – BLM manual for equipment and procedures.

Variance is requested to use a co-flex hose between the BOP and choke instead of a steel line. See attached 3" I. D. x 10K test certificate. If this hose is unavailable, then a hose of equal or higher-pressure rating will be used.

Advance Energy Partners Hat Mesa, LLC

DRILL PLAN PAGE 2

Anderson Fed Com 503H

SHL 180' FNL & 2413' FEL Sec. 2, T. 22 S., R. 32 E.

BHL 1220' FSL & 2178' FEL Sec. 26, T 21 S., R. 32 E.

Lea County, NM

Variance is requested to use a speed head (aka, multi-bowl wellhead). Diagram is attached.

4. CASING & CEMENT

All casing will be API and new. See attached casing assumption worksheet.

Hole OD	Set MD	Set TVD	Casing O.D.	Weight (lb/ft)	Grade	Joint	Collapse	Burst	Tension
17.5"	0' - 1219'	0' - 1219'	Surface 13.375"	54.5	J-55	BTC	1.125	1.125	1.6
12.25"	0' - 4000'	0' - 4000'	Intermed. 9.625"	40	J-55	LTC	1.125	1.125	1.6
12.25"	4000' - 4722'	4000' - 4722'	Intermed. 9.625"	40	HCL-80	LTC	1.125	1.125	1.6
8.5"	0' - 16894'	0' - 10200'	Product. 5.5"	20	HCP-110	CDC-HTQ	1.125	1.125	1.6

Single bow centralizer will be installed on every fourth joint of the surface and intermediate casing strings.

Single bow centralizers will be installed from 200' above the KOP up to 600' inside the previous casing shoe. Double bows will be installed from 200' above the KOP to 200' past the EOC. Solid bodies will be installed one per joint from 200' past EOC to TD.

Variance is requested for an option to use a surface rig to drill the surface hole and set and cement the surface casing. If time between rigs would not be allow presetting the surface casing, then the primary rig will drill all of the well.

Advance Energy Partners Hat Mesa, LLC

DRILL PLAN PAGE 3

Anderson Fed Com 503H

SHL 180' FNL & 2413' FEL Sec. 2, T. 22 S., R. 32 E.

BHL 1220' FSL & 2178' FEL Sec. 26, T 21 S., R. 32 E.

Lea County, NM

Name	Type	Top MD	Sacks	Yield	Cu. Ft	Weight	Excess	Cement	Additives
Surface	Lead	0	505	1.9	960	12.8	50%	B Poz + C	6% Gel + 5% SALT + 0.25PPS Pol-E-Flake + 0.005GPS NoFoam V1A
	Tail	919	215	1.35	290	14.8	20%	C	2% CaCl ₂ + 0.005GPS NoFoam V1A
1st Intermediate (stage 1)	Lead	2800	1380	1.84	2539	12.8	727%	B Poz + C	2% Gel + 5% SALT + 0.15% R-1300 + 0.25PPS Pol-E-Flake + 0.005GPS NoFoam V1A
	Tail	3777	310	1.21	375	15.6	20%	C	5% SALT + 0.005GPS NoFoam V1A
1st Intermediate (stage 2)	Lead	0	460	3.00	1380	11	153%	ProLite	5PPS Plexcrete STE + 2% SMS + 0.05% SuspendaCem 6302 + 0.5% C-47B + 3PPS Gilsonite + 0.005GPS NoFoam V1A
	Tail	2395	100	1.33	133	14.8	0%	C	0.005GPS NoFoam V1A
Production	Lead	0	875	3.39	2644	10.7	50%	ProLite	5PPS Plexcrete STE + 2% SMS + 0.05% SuspendaCem 6302 + 0.4% R-1300 + 0.5% C-47B + 3PPS Gilsonite + 0.005GPS NoFoam V1A
	Tail	9729	1630	1.22	1989	14.5	20%	B Poz + H	5% SALT + 0.65% C-20 + 0.5% C-47B + 0.005GPS NoFoam V1A

Note: Intermediate 1 is a two-stage cement job. DVT will be placed at approximately 2,800'.

5. MUD PROGRAM

An electronic pit volume totalizer (PVT) will be used to monitor volume, flow rate, pump pressure, and stroke rate. All necessary additives (e. g., barite, bentonite, LCM) to maintain mud properties and meet minimum lost circulation and weight increase needs will be on site at all times. Mud program may change due to hole conditions. A closed loop system will be used.

Advance Energy Partners Hat Mesa, LLC
Anderson Fed Com 503H
SHL 180' FNL & 2413' FEL Sec. 2, T. 22 S., R. 32 E.
BHL 1220' FSL & 2178' FEL Sec. 26, T 21 S., R. 32 E.
Lea County, NM

DRILL PLAN PAGE 4

Type	Interval (MD)	lb/gal	Viscosity	Fluid Loss ml/30 mins
fresh water	0' - 1219'	8.4 - 10.0	28 - 36	N/C
Brine	1219' - 4722'	10.0 - 10.5	28 - 32	N/C
Cut Brine	4722' - 10479'	9.2 - 9.5	28 - 30	N/C
OBM	10479' - 16894'	9.5 - 9.8	55 - 65	<8

6. CORES, TESTS, & LOGS

No core, drill stem test, or open hole log is planned.

7. DOWN HOLE CONDITIONS

No abnormal pressure or temperature is expected. Maximum expected bottom hole pressure is ≈ 5312 psi. Expected bottom hole temperature is $\approx 218^{\circ}$ F.

H2S monitors and detectors will be used from surface casing point to TD.

8. OTHER INFORMATION

Anticipated spud date is upon approval. It is expected it will take ≈ 3 months to drill and complete the well.

**WELL DETAILS: Anderson Fed Com 503H**

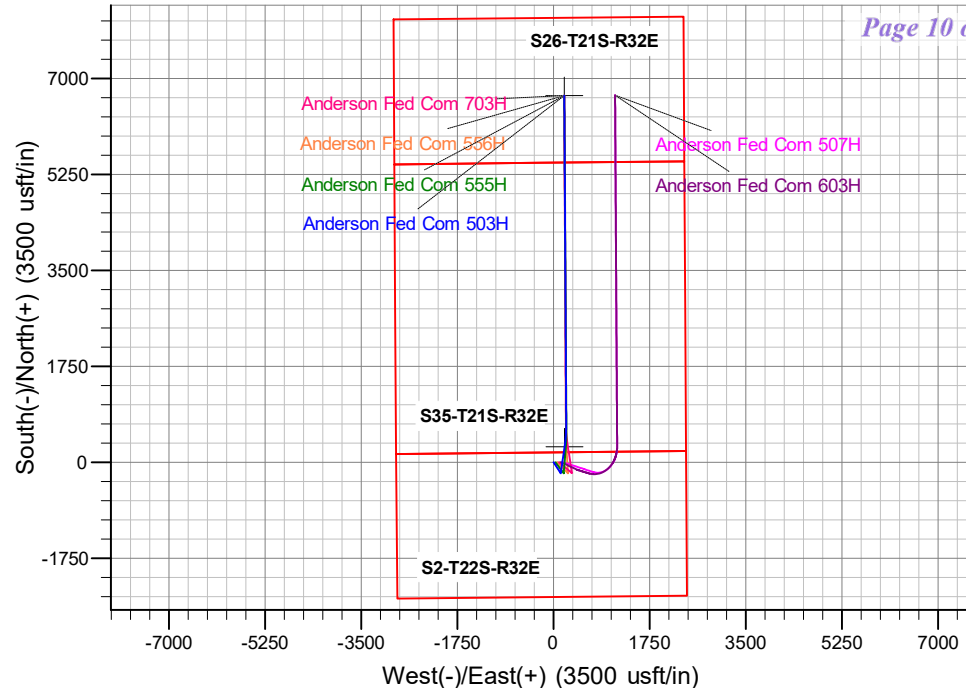
Ground Elev: 3666.0 KB: 3698.5

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	519960.43	753822.70	32° 25' 39.198 N	103° 38' 40.787 W

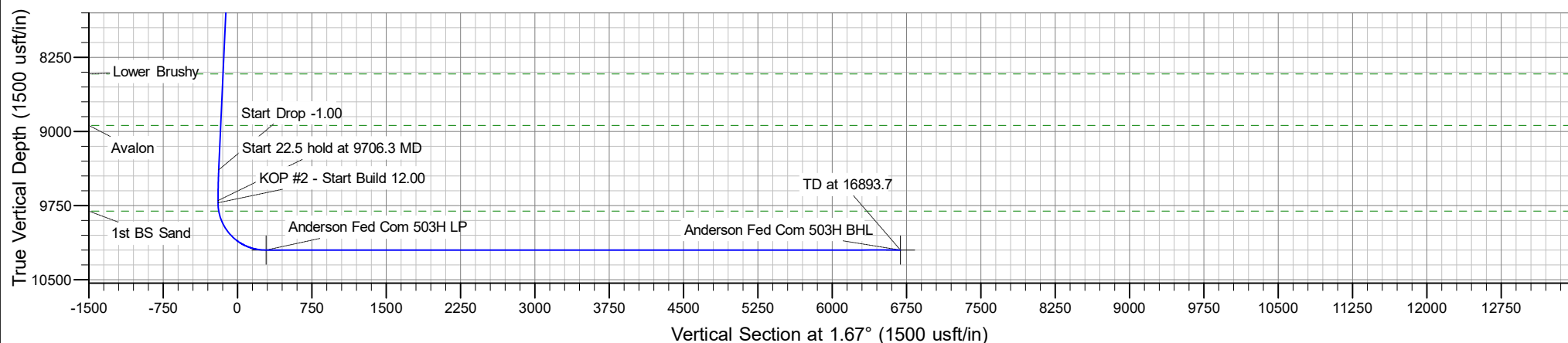
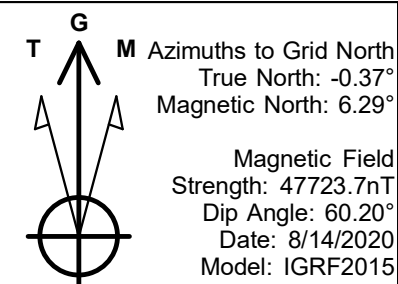
PROJECT DETAILS: Hat Mesa

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

System Datum: Mean Sea Level

**SECTION DETAILS**

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	5000.0	0.00	0.00	5000.0	0.0	0.0	0.00	0.00	0.0	KOP - Start Build 1.00
3	5311.1	3.11	146.98	5310.9	-7.1	4.6	1.00	146.98	-6.9	Start 4084.1 hold at 5311.1 MD
4	9395.2	3.11	146.98	9389.1	-192.9	125.4	0.00	0.00	-189.2	Start Drop -1.00
5	9706.3	0.00	0.00	9700.0	-200.0	130.0	1.00	180.00	-196.1	Start 22.5 hold at 9706.3 MD
6	9728.9	0.00	0.00	9722.5	-200.0	130.0	0.00	0.00	-196.1	KOP #2 - Start Build 12.00
7	10478.9	90.00	8.26	10200.0	272.5	198.6	12.00	8.26	278.2	LP - Start 10.0 hold at 10478.9 MD
8	10488.8	90.00	8.26	10200.0	282.4	200.0	0.00	0.00	288.1	Start DLS 2.00 TFO -90.00
9	10918.2	90.00	359.67	10200.0	710.4	229.6	2.00	-90.00	716.8	Start 5975.4 hold at 10918.2 MD
10	16893.7	90.00	359.67	10200.0	6685.7	195.1	0.00	0.00	6688.6	TD at 16893.7





Advance Energy Partners

Hat Mesa

Anderson Fed Com - Pad B

Anderson Fed Com 503H

Anderson Fed Com 503H

Plan: Anderson Fed Com 503H - Prelim 1

Standard Planning Report

16 June, 2021



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Anderson Fed Com 503H
Company:	Advance Energy Partners	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site:	Anderson Fed Com - Pad B	North Reference:	Grid
Well:	Anderson Fed Com 503H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 503H		
Design:	Anderson Fed Com 503H - Prelim 1		

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

Site		Anderson Fed Com - Pad B			
Site Position:		Northing:	519,961.99 usft	Latitude:	32° 25' 39.205 N
From:	Lat/Long	Easting:	753,954.75 usft	Longitude:	103° 38' 39.246 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "		

Well	Anderson Fed Com 503H					
Well Position	+N/-S	0.0 usft	Northing:	519,960.43 usft	Latitude:	32° 25' 39.198 N
	+E/-W	0.0 usft	Easting:	753,822.70 usft	Longitude:	103° 38' 40.787 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,666.0 usft
Grid Convergence:		0.37 °				

Wellbore	Anderson Fed Com 503H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	8/14/2020	6.66	60.20	47,723.73936724

Design	Anderson Fed Com 503H - Prelim 1				
Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	1.67	

Plan Survey Tool Program	Date	6/16/2021			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	16,893.7	Anderson Fed Com 503H - Prelim	MWD+HRGM	
			OWSG MWD + HRGM		



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Anderson Fed Com 503H
Company:	Advance Energy Partners	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site:	Anderson Fed Com - Pad B	North Reference:	Grid
Well:	Anderson Fed Com 503H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 503H		
Design:	Anderson Fed Com 503H - Prelim 1		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,311.1	3.11	146.98	5,310.9	-7.1	4.6	1.00	1.00	0.00	146.98	
9,395.2	3.11	146.98	9,389.0	-192.9	125.4	0.00	0.00	0.00	0.00	
9,706.3	0.00	0.00	9,700.0	-200.0	130.0	1.00	-1.00	0.00	180.00	
9,728.9	0.00	0.00	9,722.5	-200.0	130.0	0.00	0.00	0.00	0.00	
10,478.9	90.00	8.26	10,200.0	272.5	198.6	12.00	12.00	0.00	8.26	
10,488.8	90.00	8.26	10,200.0	282.4	200.0	0.00	0.00	0.00	0.00	Anderson Fed Com 503H
10,918.2	90.00	359.67	10,200.0	710.4	229.6	2.00	0.00	-2.00	-90.00	
16,893.7	90.00	359.67	10,200.0	6,685.7	195.1	0.00	0.00	0.00	0.00	Anderson Fed Com 503H



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Anderson Fed Com 503H
Company:	Advance Energy Partners	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site:	Anderson Fed Com - Pad B	North Reference:	Grid
Well:	Anderson Fed Com 503H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 503H		
Design:	Anderson Fed Com 503H - Prelim 1		

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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,194.0	0.00	0.00	1,194.0	0.0	0.0	0.0	0.00	0.00	0.00
Rustler									
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,772.0	0.00	0.00	4,772.0	0.0	0.0	0.0	0.00	0.00	0.00
Base of Limestone									
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Anderson Fed Com 503H
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Project:	Hat Mesa	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site:	Anderson Fed Com - Pad B	North Reference:	Grid
Well:	Anderson Fed Com 503H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 503H		
Design:	Anderson Fed Com 503H - Prelim 1		

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)
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP - Start Build 1.00									
5,100.0	1.00	146.98	5,100.0	-0.7	0.5	-0.7	1.00	1.00	0.00
5,200.0	2.00	146.98	5,200.0	-2.9	1.9	-2.9	1.00	1.00	0.00
5,300.0	3.00	146.98	5,299.9	-6.6	4.3	-6.5	1.00	1.00	0.00
5,311.1	3.11	146.98	5,310.9	-7.1	4.6	-6.9	1.00	1.00	0.00
Start 4084.1 hold at 5311.1 MD									
5,400.0	3.11	146.98	5,399.7	-11.1	7.2	-10.9	0.00	0.00	0.00
5,500.0	3.11	146.98	5,499.6	-15.7	10.2	-15.4	0.00	0.00	0.00
5,600.0	3.11	146.98	5,599.4	-20.2	13.1	-19.8	0.00	0.00	0.00
5,700.0	3.11	146.98	5,699.3	-24.8	16.1	-24.3	0.00	0.00	0.00
5,800.0	3.11	146.98	5,799.1	-29.3	19.1	-28.8	0.00	0.00	0.00
5,900.0	3.11	146.98	5,899.0	-33.9	22.0	-33.2	0.00	0.00	0.00
6,000.0	3.11	146.98	5,998.8	-38.4	25.0	-37.7	0.00	0.00	0.00
6,100.0	3.11	146.98	6,098.7	-43.0	27.9	-42.1	0.00	0.00	0.00
6,200.0	3.11	146.98	6,198.5	-47.5	30.9	-46.6	0.00	0.00	0.00
6,300.0	3.11	146.98	6,298.4	-52.1	33.9	-51.1	0.00	0.00	0.00
6,400.0	3.11	146.98	6,398.2	-56.6	36.8	-55.5	0.00	0.00	0.00
6,500.0	3.11	146.98	6,498.1	-61.2	39.8	-60.0	0.00	0.00	0.00
6,600.0	3.11	146.98	6,597.9	-65.7	42.7	-64.5	0.00	0.00	0.00
6,700.0	3.11	146.98	6,697.8	-70.3	45.7	-68.9	0.00	0.00	0.00
6,800.0	3.11	146.98	6,797.7	-74.8	48.6	-73.4	0.00	0.00	0.00
6,900.0	3.11	146.98	6,897.5	-79.4	51.6	-77.8	0.00	0.00	0.00
7,000.0	3.11	146.98	6,997.4	-83.9	54.6	-82.3	0.00	0.00	0.00
7,100.0	3.11	146.98	7,097.2	-88.5	57.5	-86.8	0.00	0.00	0.00
7,200.0	3.11	146.98	7,197.1	-93.0	60.5	-91.2	0.00	0.00	0.00
7,300.0	3.11	146.98	7,296.9	-97.6	63.4	-95.7	0.00	0.00	0.00
7,400.0	3.11	146.98	7,396.8	-102.1	66.4	-100.2	0.00	0.00	0.00
7,500.0	3.11	146.98	7,496.6	-106.7	69.3	-104.6	0.00	0.00	0.00
7,600.0	3.11	146.98	7,596.5	-111.2	72.3	-109.1	0.00	0.00	0.00
7,700.0	3.11	146.98	7,696.3	-115.8	75.3	-113.5	0.00	0.00	0.00
7,800.0	3.11	146.98	7,796.2	-120.3	78.2	-118.0	0.00	0.00	0.00
7,900.0	3.11	146.98	7,896.0	-124.9	81.2	-122.5	0.00	0.00	0.00
8,000.0	3.11	146.98	7,995.9	-129.4	84.1	-126.9	0.00	0.00	0.00
8,100.0	3.11	146.98	8,095.7	-134.0	87.1	-131.4	0.00	0.00	0.00
8,200.0	3.11	146.98	8,195.6	-138.5	90.0	-135.8	0.00	0.00	0.00
8,300.0	3.11	146.98	8,295.4	-143.1	93.0	-140.3	0.00	0.00	0.00
8,400.0	3.11	146.98	8,395.3	-147.6	96.0	-144.8	0.00	0.00	0.00
8,423.7	3.11	146.98	8,419.0	-148.7	96.7	-145.8	0.00	0.00	0.00
Lower Brushy									
8,500.0	3.11	146.98	8,495.1	-152.2	98.9	-149.2	0.00	0.00	0.00
8,600.0	3.11	146.98	8,595.0	-156.7	101.9	-153.7	0.00	0.00	0.00
8,700.0	3.11	146.98	8,694.9	-161.3	104.8	-158.2	0.00	0.00	0.00
8,800.0	3.11	146.98	8,794.7	-165.8	107.8	-162.6	0.00	0.00	0.00
8,900.0	3.11	146.98	8,894.6	-170.4	110.8	-167.1	0.00	0.00	0.00
8,944.5	3.11	146.98	8,939.0	-172.4	112.1	-169.1	0.00	0.00	0.00
Avalon									
9,000.0	3.11	146.98	8,994.4	-174.9	113.7	-171.5	0.00	0.00	0.00
9,100.0	3.11	146.98	9,094.3	-179.5	116.7	-176.0	0.00	0.00	0.00
9,200.0	3.11	146.98	9,194.1	-184.0	119.6	-180.5	0.00	0.00	0.00
9,300.0	3.11	146.98	9,294.0	-188.6	122.6	-184.9	0.00	0.00	0.00
9,395.2	3.11	146.98	9,389.0	-192.9	125.4	-189.2	0.00	0.00	0.00
Start Drop -1.00									



Planning Report

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Project:	Hat Mesa	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site:	Anderson Fed Com - Pad B	North Reference:	Grid
Well:	Anderson Fed Com 503H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 503H		
Design:	Anderson Fed Com 503H - Prelim 1		

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)
9,400.0	3.06	146.98	9,393.8	-193.1	125.5	-189.4	1.00	-1.00	0.00
9,500.0	2.06	146.98	9,493.7	-196.9	128.0	-193.1	1.00	-1.00	0.00
9,600.0	1.06	146.98	9,593.7	-199.2	129.5	-195.3	1.00	-1.00	0.00
9,700.0	0.06	146.98	9,693.7	-200.0	130.0	-196.1	1.00	-1.00	0.00
9,706.3	0.00	0.00	9,700.0	-200.0	130.0	-196.1	1.00	-1.00	0.00
Start 22.5 hold at 9706.3 MD									
9,728.9	0.00	0.00	9,722.5	-200.0	130.0	-196.1	0.00	0.00	0.00
KOP #2 - Start Build 12.00									
9,800.0	8.54	8.26	9,793.4	-194.8	130.8	-190.9	12.00	12.00	0.00
9,812.8	10.07	8.26	9,806.0	-192.7	131.1	-188.8	12.00	12.00	0.00
1st BS Sand									
9,900.0	20.54	8.26	9,890.0	-170.0	134.4	-166.0	12.00	12.00	0.00
10,000.0	32.54	8.26	9,979.3	-125.8	140.8	-121.7	12.00	12.00	0.00
10,100.0	44.54	8.26	10,057.4	-64.3	149.7	-59.9	12.00	12.00	0.00
10,200.0	56.54	8.26	10,120.9	12.0	160.8	16.7	12.00	12.00	0.00
10,300.0	68.54	8.26	10,166.9	99.6	173.5	104.6	12.00	12.00	0.00
10,400.0	80.54	8.26	10,193.5	194.8	187.3	200.2	12.00	12.00	0.00
10,478.9	90.00	8.26	10,200.0	272.5	198.6	278.2	12.00	12.00	0.00
LP - Start 10.0 hold at 10478.9 MD									
10,488.8	90.00	8.26	10,200.0	282.4	200.0	288.1	0.00	0.00	0.00
Start DLS 2.00 TFO -90.00 - Anderson Fed Com 503H LP									
10,500.0	90.00	8.03	10,200.0	293.4	201.6	299.2	2.00	0.00	-2.00
10,600.0	90.00	6.03	10,200.0	392.7	213.8	398.8	2.00	0.00	-2.00
10,700.0	90.00	4.03	10,200.0	492.3	222.6	498.6	2.00	0.00	-2.00
10,800.0	90.00	2.03	10,200.0	592.1	227.9	598.5	2.00	0.00	-2.00
10,900.0	90.00	0.03	10,200.0	692.1	229.7	698.5	2.00	0.00	-2.00
10,918.2	90.00	359.67	10,200.0	710.4	229.6	716.8	2.00	0.00	-2.00
Start 5975.4 hold at 10918.2 MD									
11,000.0	90.00	359.67	10,200.0	792.1	229.2	798.5	0.00	0.00	0.00
11,100.0	90.00	359.67	10,200.0	892.1	228.6	898.4	0.00	0.00	0.00
11,200.0	90.00	359.67	10,200.0	992.1	228.0	998.3	0.00	0.00	0.00
11,300.0	90.00	359.67	10,200.0	1,092.1	227.4	1,098.3	0.00	0.00	0.00
11,400.0	90.00	359.67	10,200.0	1,192.1	226.9	1,198.2	0.00	0.00	0.00
11,500.0	90.00	359.67	10,200.0	1,292.1	226.3	1,298.2	0.00	0.00	0.00
11,600.0	90.00	359.67	10,200.0	1,392.1	225.7	1,398.1	0.00	0.00	0.00
11,700.0	90.00	359.67	10,200.0	1,492.1	225.1	1,498.0	0.00	0.00	0.00
11,800.0	90.00	359.67	10,200.0	1,592.1	224.5	1,598.0	0.00	0.00	0.00
11,900.0	90.00	359.67	10,200.0	1,692.1	224.0	1,697.9	0.00	0.00	0.00
12,000.0	90.00	359.67	10,200.0	1,792.1	223.4	1,797.9	0.00	0.00	0.00
12,100.0	90.00	359.67	10,200.0	1,892.1	222.8	1,897.8	0.00	0.00	0.00
12,200.0	90.00	359.67	10,200.0	1,992.1	222.2	1,997.7	0.00	0.00	0.00
12,300.0	90.00	359.67	10,200.0	2,092.1	221.6	2,097.7	0.00	0.00	0.00
12,400.0	90.00	359.67	10,200.0	2,192.1	221.1	2,197.6	0.00	0.00	0.00
12,500.0	90.00	359.67	10,200.0	2,292.1	220.5	2,297.6	0.00	0.00	0.00
12,600.0	90.00	359.67	10,200.0	2,392.1	219.9	2,397.5	0.00	0.00	0.00
12,700.0	90.00	359.67	10,200.0	2,492.1	219.3	2,497.4	0.00	0.00	0.00
12,800.0	90.00	359.67	10,200.0	2,592.1	218.8	2,597.4	0.00	0.00	0.00
12,900.0	90.00	359.67	10,200.0	2,692.1	218.2	2,697.3	0.00	0.00	0.00
13,000.0	90.00	359.67	10,200.0	2,792.1	217.6	2,797.2	0.00	0.00	0.00
13,100.0	90.00	359.67	10,200.0	2,892.1	217.0	2,897.2	0.00	0.00	0.00
13,200.0	90.00	359.67	10,200.0	2,992.1	216.4	2,997.1	0.00	0.00	0.00
13,300.0	90.00	359.67	10,200.0	3,092.1	215.9	3,097.1	0.00	0.00	0.00
13,400.0	90.00	359.67	10,200.0	3,192.1	215.3	3,197.0	0.00	0.00	0.00



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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)	
13,500.0	90.00	359.67	10,200.0	3,292.1	214.7	3,296.9	0.00	0.00	0.00	
13,600.0	90.00	359.67	10,200.0	3,392.1	214.1	3,396.9	0.00	0.00	0.00	
13,700.0	90.00	359.67	10,200.0	3,492.1	213.5	3,496.8	0.00	0.00	0.00	
13,800.0	90.00	359.67	10,200.0	3,592.1	213.0	3,596.8	0.00	0.00	0.00	
13,900.0	90.00	359.67	10,200.0	3,692.1	212.4	3,696.7	0.00	0.00	0.00	
14,000.0	90.00	359.67	10,200.0	3,792.1	211.8	3,796.6	0.00	0.00	0.00	
14,100.0	90.00	359.67	10,200.0	3,892.1	211.2	3,896.6	0.00	0.00	0.00	
14,200.0	90.00	359.67	10,200.0	3,992.1	210.7	3,996.5	0.00	0.00	0.00	
14,300.0	90.00	359.67	10,200.0	4,092.1	210.1	4,096.5	0.00	0.00	0.00	
14,400.0	90.00	359.67	10,200.0	4,192.1	209.5	4,196.4	0.00	0.00	0.00	
14,500.0	90.00	359.67	10,200.0	4,292.1	208.9	4,296.3	0.00	0.00	0.00	
14,600.0	90.00	359.67	10,200.0	4,392.1	208.3	4,396.3	0.00	0.00	0.00	
14,700.0	90.00	359.67	10,200.0	4,492.1	207.8	4,496.2	0.00	0.00	0.00	
14,800.0	90.00	359.67	10,200.0	4,592.1	207.2	4,596.1	0.00	0.00	0.00	
14,900.0	90.00	359.67	10,200.0	4,692.1	206.6	4,696.1	0.00	0.00	0.00	
15,000.0	90.00	359.67	10,200.0	4,792.1	206.0	4,796.0	0.00	0.00	0.00	
15,100.0	90.00	359.67	10,200.0	4,892.1	205.4	4,896.0	0.00	0.00	0.00	
15,200.0	90.00	359.67	10,200.0	4,992.1	204.9	4,995.9	0.00	0.00	0.00	
15,300.0	90.00	359.67	10,200.0	5,092.1	204.3	5,095.8	0.00	0.00	0.00	
15,400.0	90.00	359.67	10,200.0	5,192.0	203.7	5,195.8	0.00	0.00	0.00	
15,500.0	90.00	359.67	10,200.0	5,292.0	203.1	5,295.7	0.00	0.00	0.00	
15,600.0	90.00	359.67	10,200.0	5,392.0	202.5	5,395.7	0.00	0.00	0.00	
15,700.0	90.00	359.67	10,200.0	5,492.0	202.0	5,495.6	0.00	0.00	0.00	
15,800.0	90.00	359.67	10,200.0	5,592.0	201.4	5,595.5	0.00	0.00	0.00	
15,900.0	90.00	359.67	10,200.0	5,692.0	200.8	5,695.5	0.00	0.00	0.00	
16,000.0	90.00	359.67	10,200.0	5,792.0	200.2	5,795.4	0.00	0.00	0.00	
16,100.0	90.00	359.67	10,200.0	5,892.0	199.7	5,895.4	0.00	0.00	0.00	
16,200.0	90.00	359.67	10,200.0	5,992.0	199.1	5,995.3	0.00	0.00	0.00	
16,300.0	90.00	359.67	10,200.0	6,092.0	198.5	6,095.2	0.00	0.00	0.00	
16,400.0	90.00	359.67	10,200.0	6,192.0	197.9	6,195.2	0.00	0.00	0.00	
16,500.0	90.00	359.67	10,200.0	6,292.0	197.3	6,295.1	0.00	0.00	0.00	
16,600.0	90.00	359.67	10,200.0	6,392.0	196.8	6,395.0	0.00	0.00	0.00	
16,700.0	90.00	359.67	10,200.0	6,492.0	196.2	6,495.0	0.00	0.00	0.00	
16,800.0	90.00	359.67	10,200.0	6,592.0	195.6	6,594.9	0.00	0.00	0.00	
16,893.7	90.00	359.67	10,200.0	6,685.7	195.1	6,688.6	0.00	0.00	0.00	
TD at 16893.7 - Anderson Fed Com 503H BHL										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
- hit/miss target										
- Shape										
Anderson Fed Com 503I - plan hits target center - Point	0.00	0.00	10,200.0	282.4	200.0	520,242.81	754,022.70	32° 25' 41.979 N	103° 38' 38.432 W	
Anderson Fed Com 503I - plan hits target center - Point	0.00	0.00	10,200.0	6,685.7	195.1	526,646.15	754,017.75	32° 26' 45.341 N	103° 38' 38.008 W	



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Anderson Fed Com 503H
Company:	Advance Energy Partners	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site:	Anderson Fed Com - Pad B	North Reference:	Grid
Well:	Anderson Fed Com 503H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 503H		
Design:	Anderson Fed Com 503H - Prelim 1		

Casing Points				
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
	10,840.0	LP	5-1/2	5-1/2

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,194.0	1,194.0	Rustler		0.00	
4,772.0	4,772.0	Base of Limestone		0.00	
8,423.7	8,419.0	Lower Brushy		0.00	
8,944.5	8,939.0	Avalon		0.00	
9,812.8	9,806.0	1st BS Sand		0.00	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
5,000.0	5,000.0	0.0	0.0	KOP - Start Build 1.00	
5,311.1	5,310.9	-7.1	4.6	Start 4084.1 hold at 5311.1 MD	
9,395.2	9,389.0	-192.9	125.4	Start Drop -1.00	
9,706.3	9,700.0	-200.0	130.0	Start 22.5 hold at 9706.3 MD	
9,728.9	9,722.5	-200.0	130.0	KOP #2 - Start Build 12.00	
10,478.9	10,200.0	272.5	198.6	LP - Start 10.0 hold at 10478.9 MD	
10,488.8	10,200.0	282.4	200.0	Start DLS 2.00 TFO -90.00	
10,918.2	10,200.0	710.4	229.6	Start 5975.4 hold at 10918.2 MD	
16,893.7	10,200.0	6,685.7	195.1	TD at 16893.7	



Advance Energy Partners

Hat Mesa

Anderson Fed Com - Pad B

Anderson Fed Com 503H

Anderson Fed Com 503H

Anderson Fed Com 503H - Prelim 1

Anticollision Report

16 June, 2021



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 503H
Project:	Hat Mesa	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 503H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 503H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 503H - Prelim 1	Offset TVD Reference:	Offset Datum

Reference	Anderson Fed Com 503H - Prelim 1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 1,000.0usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.79 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	6/16/2021			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	16,893.7	Anderson Fed Com 503H - Prelim 1 (Ande	MWD+HRGM	OWSG MWD + HRGM	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Anderson Fed Com - Pad B						
Anderson Fed Com 507H - Anderson Fed Com 507H - A	5,000.0	4,996.5	165.1	127.4	4.377	CC
Anderson Fed Com 507H - Anderson Fed Com 507H - A	5,100.0	5,093.9	165.4	127.1	4.321	ES
Anderson Fed Com 507H - Anderson Fed Com 507H - A	16,893.7	16,846.4	970.6	695.4	3.526	SF
Anderson Fed Com 555H - Anderson Fed Com 555H - A	5,450.0	5,449.3	30.0	3.0	1.113	Level 3, CC
Anderson Fed Com 555H - Anderson Fed Com 555H - A	9,900.0	9,894.0	47.8	-2.6	0.947	Level 3, ES, SF
Anderson Fed Com 556H - Anderson Fed Com 556H - A	5,583.6	5,582.3	58.9	31.6	2.158	CC
Anderson Fed Com 556H - Anderson Fed Com 556H - A	5,600.0	5,598.6	58.9	31.6	2.157	ES, SF
Anderson Fed Com 603H - Anderson Fed Com 603H - A	5,913.0	5,911.3	116.2	88.1	4.132	CC, ES
Anderson Fed Com 603H - Anderson Fed Com 603H - A	16,893.7	17,529.2	964.0	700.1	3.652	SF
Anderson Fed Com 703H - Anderson Fed Com 703H - A	5,756.5	5,754.4	87.7	60.0	3.166	CC, ES
Anderson Fed Com 703H - Anderson Fed Com 703H - A	10,050.0	10,018.8	146.6	96.4	2.917	SF

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 507H - Anderson Fed Com 507H - Anderson Fed Com 507H - Prelim 1												Offset Site Error: 0.0 usft	
Survey Program: 0-B001Mb_MWD+HRGM								Rule Assigned:				Offset Well Error: 0.0 usft	
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	0.0	0.0	0.0	0.0	89.38	1.8	165.1	165.1				
100.0	100.0	96.5	96.5	0.5	0.2	89.38	1.8	165.1	165.1	164.4	0.70	236.686	
200.0	200.0	196.5	196.5	1.7	0.7	89.38	1.8	165.1	165.1	162.7	2.37	69.790	
300.0	300.0	296.5	296.5	2.4	1.2	89.38	1.8	165.1	165.1	161.5	3.56	46.312	
400.0	400.0	396.5	396.5	3.0	1.7	89.38	1.8	165.1	165.1	160.5	4.61	35.834	
500.0	500.0	496.5	496.5	3.4	2.2	89.38	1.8	165.1	165.1	159.5	5.57	29.649	
600.0	600.0	596.5	596.5	3.8	2.7	89.38	1.8	165.1	165.1	158.6	6.48	25.487	
700.0	700.0	696.5	696.5	4.2	3.2	89.38	1.8	165.1	165.1	157.7	7.35	22.461	
800.0	800.0	796.5	796.5	4.5	3.7	89.38	1.8	165.1	165.1	156.9	8.19	20.145	
900.0	900.0	896.5	896.5	4.9	4.2	89.38	1.8	165.1	165.1	156.1	9.02	18.306	
1,000.0	1,000.0	996.5	996.5	5.2	4.7	89.38	1.8	165.1	165.1	155.3	9.82	16.805	
1,100.0	1,100.0	1,096.5	1,096.5	5.5	5.2	89.38	1.8	165.1	165.1	154.5	10.61	15.553	
1,200.0	1,200.0	1,196.5	1,196.5	5.7	5.7	89.38	1.8	165.1	165.1	153.7	11.39	14.490	
1,300.0	1,300.0	1,296.5	1,296.5	6.0	6.2	89.38	1.8	165.1	165.1	152.9	12.16	13.575	
1,400.0	1,400.0	1,396.5	1,396.5	6.3	6.7	89.38	1.8	165.1	165.1	152.2	12.92	12.778	
1,500.0	1,500.0	1,496.5	1,496.5	6.5	7.2	89.38	1.8	165.1	165.1	151.4	13.67	12.077	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 503H
Project:	Hat Mesa	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 503H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 503H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 503H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 507H - Anderson Fed Com 507H - Anderson Fed Com 507H - Prelim 1												Offset Site Error:	0.0 usft
Survey Program: 0-B001Mb_MWD+HRGM												Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
1,600.0	1,600.0	1,596.5	1,596.5	6.8	7.7	89.38	1.8	165.1	165.1	150.7	14.41	11.455	
1,700.0	1,700.0	1,696.5	1,696.5	7.0	8.2	89.38	1.8	165.1	165.1	149.9	15.15	10.898	
1,800.0	1,800.0	1,796.5	1,796.5	7.2	8.7	89.38	1.8	165.1	165.1	149.2	15.88	10.397	
1,900.0	1,900.0	1,896.5	1,896.5	7.5	9.2	89.38	1.8	165.1	165.1	148.5	16.60	9.943	
2,000.0	2,000.0	1,996.5	1,996.5	7.7	9.7	89.38	1.8	165.1	165.1	147.8	17.32	9.530	
2,100.0	2,100.0	2,096.5	2,096.5	7.9	10.2	89.38	1.8	165.1	165.1	147.0	18.04	9.152	
2,200.0	2,200.0	2,196.5	2,196.5	8.1	10.7	89.38	1.8	165.1	165.1	146.3	18.75	8.804	
2,300.0	2,300.0	2,296.5	2,296.5	8.3	11.2	89.38	1.8	165.1	165.1	145.6	19.46	8.484	
2,400.0	2,400.0	2,396.5	2,396.5	8.5	11.7	89.38	1.8	165.1	165.1	144.9	20.16	8.188	
2,500.0	2,500.0	2,496.5	2,496.5	8.7	12.2	89.38	1.8	165.1	165.1	144.2	20.86	7.913	
2,600.0	2,600.0	2,596.5	2,596.5	8.9	12.7	89.38	1.8	165.1	165.1	143.5	21.56	7.657	
2,700.0	2,700.0	2,696.5	2,696.5	9.1	13.2	89.38	1.8	165.1	165.1	142.8	22.25	7.418	
2,800.0	2,800.0	2,796.5	2,796.5	9.3	13.7	89.38	1.8	165.1	165.1	142.1	22.95	7.194	
2,900.0	2,900.0	2,896.5	2,896.5	9.5	14.2	89.38	1.8	165.1	165.1	141.4	23.64	6.984	
3,000.0	3,000.0	2,996.5	2,996.5	9.7	14.7	89.38	1.8	165.1	165.1	140.8	24.32	6.787	
3,100.0	3,100.0	3,096.5	3,096.5	9.9	15.2	89.38	1.8	165.1	165.1	140.1	25.01	6.601	
3,200.0	3,200.0	3,196.5	3,196.5	10.0	15.7	89.38	1.8	165.1	165.1	139.4	25.69	6.426	
3,300.0	3,300.0	3,296.5	3,296.5	10.2	16.2	89.38	1.8	165.1	165.1	138.7	26.37	6.260	
3,400.0	3,400.0	3,396.5	3,396.5	10.4	16.7	89.38	1.8	165.1	165.1	138.0	27.05	6.103	
3,500.0	3,500.0	3,496.5	3,496.5	10.6	17.2	89.38	1.8	165.1	165.1	137.4	27.73	5.954	
3,600.0	3,600.0	3,596.5	3,596.5	10.7	17.7	89.38	1.8	165.1	165.1	136.7	28.40	5.812	
3,700.0	3,700.0	3,696.5	3,696.5	10.9	18.2	89.38	1.8	165.1	165.1	136.0	29.08	5.677	
3,800.0	3,800.0	3,796.5	3,796.5	11.1	18.7	89.38	1.8	165.1	165.1	135.3	29.75	5.549	
3,900.0	3,900.0	3,896.5	3,896.5	11.3	19.2	89.38	1.8	165.1	165.1	134.7	30.42	5.427	
4,000.0	4,000.0	3,996.5	3,996.5	11.4	19.7	89.38	1.8	165.1	165.1	134.0	31.09	5.310	
4,100.0	4,100.0	4,096.5	4,096.5	11.6	20.2	89.38	1.8	165.1	165.1	133.3	31.76	5.198	
4,200.0	4,200.0	4,196.5	4,196.5	11.8	20.7	89.38	1.8	165.1	165.1	132.7	32.42	5.091	
4,300.0	4,300.0	4,296.5	4,296.5	11.9	21.2	89.38	1.8	165.1	165.1	132.0	33.09	4.989	
4,400.0	4,400.0	4,396.5	4,396.5	12.1	21.7	89.38	1.8	165.1	165.1	131.3	33.75	4.891	
4,500.0	4,500.0	4,496.5	4,496.5	12.3	22.2	89.38	1.8	165.1	165.1	130.7	34.42	4.796	
4,600.0	4,600.0	4,596.5	4,596.5	12.4	22.7	89.38	1.8	165.1	165.1	130.0	35.08	4.706	
4,700.0	4,700.0	4,696.5	4,696.5	12.6	23.2	89.38	1.8	165.1	165.1	129.3	35.74	4.619	
4,800.0	4,800.0	4,796.5	4,796.5	12.7	23.7	89.38	1.8	165.1	165.1	128.7	36.40	4.535	
4,900.0	4,900.0	4,896.5	4,896.5	12.9	24.2	89.38	1.8	165.1	165.1	128.0	37.06	4.454	
5,000.0	5,000.0	4,996.5	4,996.5	13.1	24.7	89.38	1.8	165.1	165.1	127.4	37.72	4.377 CC	
5,100.0	5,100.0	5,093.9	5,093.9	13.2	25.1	-57.76	1.6	165.8	165.4	127.1	38.27	4.321 ES	
5,200.0	5,200.0	5,191.3	5,191.2	13.2	25.6	-58.22	0.8	168.1	166.3	127.5	38.79	4.288	
5,300.0	5,299.9	5,288.5	5,288.4	13.3	26.0	-58.98	-0.5	172.0	168.0	128.7	39.30	4.275	
5,311.1	5,310.9	5,300.0	5,299.9	13.3	26.1	-59.09	-0.6	172.5	168.2	128.9	39.35	4.275	
5,400.0	5,399.7	5,385.8	5,385.5	13.4	26.5	-59.84	-2.2	177.4	170.8	131.0	39.78	4.293	
5,500.0	5,499.6	5,482.9	5,482.4	13.5	27.0	-60.47	-4.5	184.4	175.1	134.8	40.28	4.347	
5,600.0	5,599.4	5,579.9	5,579.0	13.7	27.4	-60.88	-7.3	193.0	181.1	140.3	40.79	4.439	
5,700.0	5,699.3	5,679.1	5,677.6	13.8	27.9	-61.13	-10.5	202.8	188.1	146.8	41.35	4.549	
5,800.0	5,799.1	5,778.9	5,776.8	14.0	28.4	-61.36	-13.7	212.7	195.2	153.3	41.92	4.656	
5,900.0	5,899.0	5,878.6	5,876.0	14.2	28.9	-61.58	-16.9	222.6	202.3	159.8	42.50	4.759	
6,000.0	5,998.8	5,978.3	5,975.2	14.4	29.3	-61.78	-20.1	232.5	209.3	166.3	43.08	4.859	
6,100.0	6,098.7	6,078.1	6,074.4	14.6	29.8	-61.97	-23.4	242.4	216.4	172.7	43.67	4.956	
6,200.0	6,198.5	6,177.8	6,173.6	14.8	30.3	-62.15	-26.6	252.4	223.5	179.2	44.26	5.050	
6,300.0	6,298.4	6,277.6	6,272.8	15.1	30.8	-62.32	-29.8	262.3	230.6	185.7	44.85	5.141	
6,400.0	6,398.2	6,377.3	6,372.0	15.3	31.3	-62.47	-33.0	272.2	237.7	192.2	45.46	5.229	
6,500.0	6,498.1	6,477.1	6,471.2	15.6	31.8	-62.62	-36.2	282.1	244.8	198.7	46.06	5.314	
6,600.0	6,597.9	6,576.8	6,570.4	15.9	32.3	-62.76	-39.5	292.0	251.8	205.2	46.67	5.396	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 503H
Project:	Hat Mesa	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 503H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 503H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 503H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 507H - Anderson Fed Com 507H - Anderson Fed Com 507H - Prelim 1													Offset Site Error:	0.0 usft	
Survey Program: 0-B001Mb_MWD+HRGM				Offset		Semi Major Axis			Offset Wellbore Centre		Rule Assigned:		Distance	Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
6,700.0	6,697.8	6,676.6	6,669.6	16.2	32.8	-62.89	-42.7	301.9	258.9	211.6	47.29	5.476			
6,800.0	6,797.7	6,776.3	6,768.8	16.4	33.3	-63.02	-45.9	311.9	266.0	218.1	47.90	5.553			
6,900.0	6,897.5	6,876.1	6,868.0	16.8	33.8	-63.13	-49.1	321.8	273.1	224.6	48.53	5.628			
7,000.0	6,997.4	6,975.8	6,967.2	17.1	34.3	-63.25	-52.3	331.7	280.2	231.1	49.15	5.701			
7,100.0	7,097.2	7,075.6	7,066.4	17.4	34.8	-63.35	-55.6	341.6	287.3	237.5	49.78	5.771			
7,200.0	7,197.1	7,175.3	7,165.6	17.7	35.3	-63.45	-58.8	351.5	294.4	244.0	50.41	5.840			
7,300.0	7,296.9	7,275.1	7,264.8	18.0	35.8	-63.55	-62.0	361.4	301.5	250.4	51.05	5.906			
7,400.0	7,396.8	7,374.8	7,364.0	18.4	36.3	-63.64	-65.2	371.4	308.6	256.9	51.69	5.970			
7,500.0	7,496.6	7,474.5	7,463.2	18.7	36.8	-63.73	-68.5	381.3	315.7	263.4	52.33	6.032			
7,600.0	7,596.5	7,574.3	7,562.4	19.1	37.3	-63.81	-71.7	391.2	322.8	269.8	52.98	6.093			
7,700.0	7,696.3	7,674.0	7,661.6	19.4	37.8	-63.89	-74.9	401.1	329.9	276.3	53.63	6.152			
7,800.0	7,796.2	7,773.8	7,760.8	19.8	38.3	-63.97	-78.1	411.0	337.0	282.7	54.28	6.209			
7,900.0	7,896.0	7,873.5	7,860.0	20.2	38.8	-64.05	-81.3	420.9	344.1	289.2	54.93	6.264			
8,000.0	7,995.9	7,973.3	7,959.2	20.5	39.3	-64.12	-84.6	430.9	351.2	295.6	55.59	6.318			
8,100.0	8,095.7	8,073.0	8,058.4	20.9	39.8	-64.18	-87.8	440.8	358.3	302.0	56.25	6.370			
8,200.0	8,195.6	8,172.8	8,157.6	21.3	40.3	-64.25	-91.0	450.7	365.4	308.5	56.91	6.421			
8,300.0	8,295.4	8,272.5	8,256.8	21.7	40.8	-64.31	-94.2	460.6	372.5	314.9	57.57	6.470			
8,400.0	8,395.3	8,372.3	8,356.0	22.1	41.4	-64.37	-97.5	470.5	379.6	321.4	58.24	6.518			
8,500.0	8,495.1	8,472.0	8,455.2	22.5	41.9	-64.43	-100.7	480.4	386.7	327.8	58.91	6.564			
8,600.0	8,595.0	8,571.8	8,554.4	22.9	42.4	-64.49	-103.9	490.4	393.8	334.2	59.58	6.610			
8,700.0	8,694.9	8,671.5	8,653.6	23.3	42.9	-64.54	-107.1	500.3	400.9	340.7	60.25	6.654			
8,800.0	8,794.7	8,771.3	8,752.8	23.7	43.4	-64.60	-110.3	510.2	408.0	347.1	60.93	6.697			
8,900.0	8,894.6	8,871.0	8,852.0	24.1	43.9	-64.65	-113.6	520.1	415.1	353.5	61.60	6.738			
9,000.0	8,994.4	8,970.7	8,951.2	24.5	44.4	-64.69	-116.8	530.0	422.2	359.9	62.28	6.779			
9,100.0	9,094.3	9,070.5	9,050.4	24.9	45.0	-64.74	-120.0	539.9	429.3	366.4	62.96	6.819			
9,200.0	9,194.1	9,170.2	9,149.6	25.3	45.5	-64.79	-123.2	549.8	436.4	372.8	63.65	6.857			
9,300.0	9,294.0	9,238.7	9,217.5	25.7	45.8	-64.73	-125.9	558.1	446.0	381.9	64.06	6.962			
9,395.2	9,389.0	9,289.3	9,266.7	26.1	46.1	-64.38	-129.7	569.3	463.8	399.6	64.20	7.225			
9,400.0	9,393.8	9,291.8	9,269.1	26.1	46.1	-64.36	-129.9	569.9	465.0	400.8	64.20	7.243			
9,500.0	9,493.7	9,342.0	9,316.2	26.5	46.4	-63.95	-135.3	586.0	493.8	429.7	64.17	7.695			
9,600.0	9,593.7	9,388.2	9,357.9	26.9	46.7	-63.42	-141.6	604.9	532.2	468.2	64.02	8.314			
9,706.3	9,700.0	9,432.4	9,395.9	27.1	47.0	84.12	-148.9	626.4	582.6	518.9	63.69	9.147			
9,728.9	9,722.5	9,441.2	9,403.1	27.1	47.1	84.35	-150.4	631.0	594.4	530.8	63.59	9.346			
9,750.0	9,743.7	9,450.0	9,410.4	27.1	47.1	74.80	-152.0	635.8	605.7	542.1	63.53	9.534			
9,775.0	9,768.6	9,458.2	9,417.0	27.0	47.2	73.25	-153.6	640.4	619.1	555.7	63.42	9.763			
9,800.0	9,793.4	9,467.0	9,424.0	27.0	47.2	71.75	-155.3	645.4	632.7	569.4	63.33	9.991			
9,825.0	9,818.0	9,475.0	9,430.3	26.9	47.3	70.27	-156.9	650.1	646.4	583.2	63.24	10.221			
9,850.0	9,842.4	9,483.3	9,436.8	26.8	47.3	68.84	-158.5	655.1	660.1	597.0	63.18	10.449			
9,875.0	9,866.4	9,490.9	9,442.6	26.7	47.4	67.41	-160.1	659.7	674.0	610.8	63.11	10.679			
9,900.0	9,890.0	9,500.0	9,449.4	26.7	47.5	66.12	-162.0	665.3	687.8	624.7	63.10	10.900			
9,925.0	9,913.2	9,500.0	9,449.4	26.6	47.5	64.30	-162.0	665.3	701.7	638.8	62.87	11.160			
9,950.0	9,935.9	9,511.1	9,457.7	26.5	47.5	63.23	-164.4	672.4	715.5	652.6	62.96	11.365			
9,975.0	9,957.9	9,517.1	9,462.0	26.4	47.6	61.86	-165.7	676.3	729.4	666.4	62.93	11.590			
10,000.0	9,979.3	9,525.0	9,467.7	26.3	47.6	60.67	-167.5	681.5	743.2	680.2	62.98	11.800			
10,025.0	10,000.0	9,525.0	9,467.7	26.3	47.6	58.96	-167.5	681.5	757.0	694.1	62.85	12.043			
10,050.0	10,020.0	9,525.0	9,467.7	26.2	47.6	57.28	-167.5	681.5	770.7	708.0	62.75	12.282			
10,075.0	10,039.1	9,536.8	9,476.1	26.1	47.7	56.51	-170.2	689.5	784.3	721.3	62.98	12.451			
10,100.0	10,057.4	9,540.8	9,478.8	26.0	47.8	55.22	-171.1	692.2	797.8	734.7	63.05	12.654			
10,125.0	10,074.8	9,550.0	9,485.1	26.0	47.8	54.36	-173.2	698.5	811.2	747.9	63.27	12.821			
10,150.0	10,091.2	9,550.0	9,485.1	25.9	47.8	52.85	-173.2	698.5	824.4	761.1	63.30	13.025			
10,175.0	10,106.5	9,550.0	9,485.1	25.9	47.8	51.40	-173.2	698.5	837.5	774.2	63.35	13.220			
10,200.0	10,120.9	9,550.0	9,485.1	25.9	47.8	49.99	-173.2	698.5	850.4	787.0	63.44	13.405			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 503H
Project:	Hat Mesa	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 503H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 503H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 503H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 507H - Anderson Fed Com 507H - Anderson Fed Com 507H - Prelim 1												Offset Site Error:	0.0 usft
Survey Program: 0-B001Mb_MWD+HRGM												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,225.0	10,134.1	9,550.0	9,485.1	25.8	47.8	48.64	-173.2	698.5	863.2	799.6	63.57	13.579	
10,250.0	10,146.2	9,557.0	9,489.8	25.8	47.9	47.87	-174.9	703.4	875.7	811.8	63.90	13.704	
10,275.0	10,157.1	9,558.5	9,490.8	25.8	47.9	46.73	-175.3	704.5	888.0	823.8	64.13	13.847	
10,300.0	10,166.9	9,559.7	9,491.5	25.8	47.9	45.63	-175.5	705.3	900.0	835.6	64.38	13.980	
10,325.0	10,175.4	9,560.5	9,492.1	25.8	47.9	44.56	-175.7	705.9	911.7	847.1	64.65	14.102	
10,350.0	10,182.7	9,561.0	9,492.5	25.9	47.9	43.52	-175.9	706.3	923.2	858.3	64.95	14.215	
10,375.0	10,188.7	9,561.3	9,492.6	25.9	47.9	42.51	-175.9	706.5	934.4	869.1	65.26	14.317	
10,400.0	10,193.5	9,561.2	9,492.6	25.9	47.9	41.54	-175.9	706.4	945.2	879.6	65.60	14.409	
10,425.0	10,197.0	9,560.8	9,492.3	26.0	47.9	40.61	-175.8	706.2	955.7	889.7	65.95	14.491	
10,450.0	10,199.1	9,560.2	9,491.9	26.1	47.9	39.71	-175.7	705.7	965.8	899.5	66.32	14.563	
10,475.0	10,200.0	9,559.2	9,491.2	26.2	47.9	38.84	-175.4	705.0	975.5	908.8	66.70	14.625	
10,478.9	10,200.0	9,559.0	9,491.1	26.2	47.9	38.71	-175.4	704.9	977.0	910.2	66.76	14.635	
10,488.8	10,200.0	9,558.6	9,490.8	26.2	47.9	38.69	-175.3	704.6	980.8	913.9	66.91	14.659	
10,500.0	10,200.0	9,558.1	9,490.5	26.3	47.9	38.58	-175.2	704.2	985.2	918.1	67.08	14.687	
10,600.0	10,200.0	10,554.0	9,900.0	26.7	53.2	72.44	398.6	1,156.4	988.1	915.2	72.92	13.550	
10,700.0	10,200.0	10,653.6	9,900.0	27.4	53.4	72.32	498.1	1,155.8	979.2	904.8	74.41	13.160	
10,800.0	10,200.0	10,753.4	9,900.0	28.2	53.7	72.25	597.9	1,155.2	973.5	897.5	76.06	12.799	
10,900.0	10,200.0	10,853.3	9,900.0	29.1	54.0	72.22	697.9	1,154.5	971.2	893.3	77.88	12.470	
10,918.2	10,200.0	10,871.6	9,900.0	29.2	54.1	72.22	716.1	1,154.4	971.2	893.0	78.20	12.419	
11,000.0	10,200.0	10,953.3	9,900.0	29.9	54.4	72.22	797.9	1,153.9	971.1	891.4	79.69	12.186	
11,100.0	10,200.0	11,053.3	9,900.0	30.9	54.9	72.22	897.9	1,153.3	971.1	889.4	81.64	11.894	
11,200.0	10,200.0	11,153.3	9,900.0	32.0	55.4	72.22	997.9	1,152.7	971.0	887.3	83.74	11.597	
11,300.0	10,200.0	11,253.3	9,900.0	33.2	56.1	72.22	1,097.8	1,152.0	971.0	885.1	85.95	11.298	
11,400.0	10,200.0	11,353.3	9,900.0	34.5	56.8	72.22	1,197.8	1,151.4	971.0	882.7	88.27	11.000	
11,500.0	10,200.0	11,453.3	9,900.0	35.9	57.5	72.22	1,297.8	1,150.8	970.9	880.2	90.70	10.705	
11,600.0	10,200.0	11,553.2	9,900.0	37.4	58.4	72.22	1,397.8	1,150.2	970.9	877.7	93.22	10.415	
11,700.0	10,200.0	11,653.2	9,900.0	38.9	59.3	72.22	1,497.8	1,149.6	970.9	875.0	95.82	10.132	
11,800.0	10,200.0	11,753.2	9,900.0	40.5	60.3	72.22	1,597.8	1,149.0	970.8	872.3	98.51	9.855	
11,900.0	10,200.0	11,853.2	9,900.0	42.1	61.3	72.22	1,697.8	1,148.4	970.8	869.5	101.27	9.586	
12,000.0	10,200.0	11,953.2	9,900.0	43.7	62.4	72.22	1,797.8	1,147.7	970.8	866.7	104.09	9.326	
12,100.0	10,200.0	12,053.2	9,900.0	45.4	63.6	72.22	1,897.7	1,147.1	970.7	863.8	106.98	9.074	
12,200.0	10,200.0	12,153.2	9,900.0	47.1	64.8	72.21	1,997.7	1,146.5	970.7	860.8	109.93	8.830	
12,300.0	10,200.0	12,253.2	9,900.0	48.9	66.0	72.21	2,097.7	1,145.9	970.7	857.8	112.93	8.596	
12,400.0	10,200.0	12,353.2	9,900.0	50.7	67.3	72.21	2,197.7	1,145.3	970.7	854.7	115.98	8.369	
12,500.0	10,200.0	12,453.1	9,900.0	52.4	68.6	72.21	2,297.7	1,144.7	970.6	851.6	119.07	8.152	
12,600.0	10,200.0	12,553.1	9,900.0	54.3	69.9	72.21	2,397.7	1,144.1	970.6	848.4	122.21	7.942	
12,700.0	10,200.0	12,653.1	9,900.0	56.1	71.3	72.21	2,497.7	1,143.5	970.6	845.2	125.39	7.741	
12,800.0	10,200.0	12,753.1	9,900.0	57.9	72.7	72.21	2,597.6	1,142.9	970.6	842.0	128.60	7.547	
12,900.0	10,200.0	12,853.1	9,900.0	59.8	74.2	72.21	2,697.6	1,142.3	970.5	838.7	131.85	7.361	
13,000.0	10,200.0	12,953.1	9,900.0	61.6	75.7	72.21	2,797.6	1,141.7	970.5	835.4	135.13	7.182	
13,100.0	10,200.0	13,053.1	9,900.0	63.5	77.1	72.21	2,897.6	1,141.1	970.5	832.1	138.44	7.010	
13,200.0	10,200.0	13,153.1	9,900.0	65.4	78.7	72.21	2,997.6	1,140.5	970.5	828.7	141.78	6.845	
13,300.0	10,200.0	13,253.1	9,900.0	67.3	80.2	72.21	3,097.6	1,139.9	970.5	825.3	145.14	6.686	
13,400.0	10,200.0	13,353.0	9,900.0	69.1	81.8	72.21	3,197.6	1,139.3	970.5	821.9	148.53	6.534	
13,500.0	10,200.0	13,453.0	9,900.0	71.1	83.4	72.21	3,297.6	1,138.7	970.4	818.5	151.95	6.387	
13,600.0	10,200.0	13,553.0	9,900.0	73.0	85.0	72.21	3,397.5	1,138.1	970.4	815.0	155.38	6.246	
13,700.0	10,200.0	13,653.0	9,900.0	74.9	86.6	72.21	3,497.5	1,137.5	970.4	811.6	158.83	6.110	
13,800.0	10,200.0	13,753.0	9,900.0	76.8	88.2	72.21	3,597.5	1,136.9	970.4	808.1	162.31	5.979	
13,900.0	10,200.0	13,853.0	9,900.0	78.7	89.9	72.21	3,697.5	1,136.4	970.4	804.6	165.80	5.853	
14,000.0	10,200.0	13,953.0	9,900.0	80.7	91.5	72.21	3,797.5	1,135.8	970.4	801.1	169.31	5.732	
14,100.0	10,200.0	14,053.0	9,900.0	82.6	93.2	72.21	3,897.5	1,135.2	970.4	797.6	172.83	5.615	
14,200.0	10,200.0	14,153.0	9,900.0	84.5	94.9	72.21	3,997.5	1,134.6	970.4	794.0	176.37	5.502	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 503H
Project:	Hat Mesa	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 503H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 503H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 503H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 507H - Anderson Fed Com 507H - Anderson Fed Com 507H - Prelim 1											Offset Site Error:	0.0 usft
Survey Program: 0-B001Mb_MWD+HRGM											Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
14,300.0	10,200.0	14,252.9	9,900.0	86.5	96.6	72.21	4,097.5	1,134.0	970.4	790.4	179.92	5.393
14,400.0	10,200.0	14,352.9	9,900.0	88.4	98.3	72.21	4,197.4	1,133.4	970.4	786.9	183.49	5.288
14,500.0	10,200.0	14,452.9	9,900.0	90.4	100.1	72.21	4,297.4	1,132.9	970.4	783.3	187.07	5.187
14,600.0	10,200.0	14,552.9	9,900.0	92.3	101.8	72.21	4,397.4	1,132.3	970.4	779.7	190.66	5.089
14,647.1	10,200.0	14,600.0	9,900.0	93.2	102.6	72.21	4,444.5	1,132.0	970.4	778.0	192.35	5.045
14,700.0	10,200.0	14,652.9	9,900.0	94.3	103.6	72.21	4,497.4	1,131.7	970.4	776.1	194.26	4.995
14,800.0	10,200.0	14,752.9	9,900.0	96.2	105.3	72.21	4,597.4	1,131.1	970.4	772.5	197.88	4.904
14,900.0	10,200.0	14,852.9	9,900.0	98.2	107.1	72.21	4,697.4	1,130.5	970.4	768.9	201.50	4.816
15,000.0	10,200.0	14,952.9	9,900.0	100.1	108.9	72.21	4,797.4	1,130.0	970.4	765.2	205.13	4.730
15,100.0	10,200.0	15,052.9	9,900.0	102.1	110.7	72.21	4,897.4	1,129.4	970.4	761.6	208.77	4.648
15,200.0	10,200.0	15,152.9	9,900.0	104.1	112.5	72.21	4,997.3	1,128.8	970.4	758.0	212.43	4.568
15,300.0	10,200.0	15,252.8	9,900.0	106.0	114.3	72.21	5,097.3	1,128.2	970.4	754.3	216.09	4.491
15,400.0	10,200.0	15,352.8	9,900.0	108.0	116.1	72.21	5,197.3	1,127.7	970.4	750.6	219.75	4.416
15,500.0	10,200.0	15,452.8	9,900.0	110.0	117.9	72.21	5,297.3	1,127.1	970.4	747.0	223.43	4.343
15,600.0	10,200.0	15,552.8	9,900.0	112.0	119.7	72.21	5,397.3	1,126.5	970.4	743.3	227.11	4.273
15,700.0	10,200.0	15,652.8	9,900.0	113.9	121.5	72.21	5,497.3	1,126.0	970.4	739.6	230.80	4.205
15,800.0	10,200.0	15,752.8	9,900.0	115.9	123.4	72.21	5,597.3	1,125.4	970.4	735.9	234.50	4.138
15,900.0	10,200.0	15,852.8	9,900.0	117.9	125.2	72.21	5,697.3	1,124.8	970.4	732.3	238.20	4.074
16,000.0	10,200.0	15,952.8	9,900.0	119.9	127.1	72.21	5,797.2	1,124.3	970.5	728.6	241.90	4.012
16,100.0	10,200.0	16,052.8	9,900.0	121.8	128.9	72.21	5,897.2	1,123.7	970.5	724.9	245.62	3.951
16,200.0	10,200.0	16,152.7	9,900.0	123.8	130.8	72.21	5,997.2	1,123.2	970.5	721.2	249.34	3.892
16,300.0	10,200.0	16,252.7	9,900.0	125.8	132.6	72.21	6,097.2	1,122.6	970.5	717.5	253.06	3.835
16,400.0	10,200.0	16,352.7	9,900.0	127.8	134.5	72.21	6,197.2	1,122.0	970.5	713.7	256.79	3.779
16,500.0	10,200.0	16,452.7	9,900.0	129.8	136.4	72.21	6,297.2	1,121.5	970.6	710.0	260.53	3.725
16,600.0	10,200.0	16,552.7	9,900.0	131.8	138.2	72.21	6,397.2	1,120.9	970.6	706.3	264.26	3.673
16,700.0	10,200.0	16,652.7	9,900.0	133.8	140.1	72.21	6,497.2	1,120.4	970.6	702.6	268.01	3.622
16,800.0	10,200.0	16,752.7	9,900.0	135.7	142.0	72.21	6,597.1	1,119.8	970.6	698.9	271.76	3.572
16,893.7	10,200.0	16,846.4	9,900.0	137.6	143.8	72.21	6,690.8	1,119.3	970.6	695.4	275.27	3.526 SF

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 503H
Project:	Hat Mesa	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 503H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 503H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 503H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 555H - Anderson Fed Com 555H - Anderson Fed Com 555H - Prelim 1											Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM											Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Rule Assigned:	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
0.0	0.0	0.0	0.0	0.0	0.0	89.63	0.2	33.9	33.9			
100.0	100.0	100.0	100.0	0.5	0.5	89.63	0.2	33.9	33.9	32.9	1.07	31.745
200.0	200.0	200.0	200.0	1.7	1.7	89.63	0.2	33.9	33.9	30.5	3.43	9.901
300.0	300.0	300.0	300.0	2.4	2.4	89.63	0.2	33.9	33.9	29.1	4.83	7.033
400.0	400.0	400.0	400.0	3.0	3.0	89.63	0.2	33.9	33.9	28.0	5.91	5.742
500.0	500.0	500.0	500.0	3.4	3.4	89.63	0.2	33.9	33.9	27.1	6.83	4.968
600.0	600.0	600.0	600.0	3.8	3.8	89.63	0.2	33.9	33.9	26.3	7.65	4.436
700.0	700.0	700.0	700.0	4.2	4.2	89.63	0.2	33.9	33.9	25.5	8.40	4.043
800.0	800.0	800.0	800.0	4.5	4.5	89.63	0.2	33.9	33.9	24.9	9.09	3.736
900.0	900.0	900.0	900.0	4.9	4.9	89.63	0.2	33.9	33.9	24.2	9.73	3.488
1,000.0	1,000.0	1,000.0	1,000.0	5.2	5.2	89.63	0.2	33.9	33.9	23.6	10.34	3.282
1,100.0	1,100.0	1,100.0	1,100.0	5.5	5.5	89.63	0.2	33.9	33.9	23.0	10.92	3.107
1,200.0	1,200.0	1,200.0	1,200.0	5.7	5.7	89.63	0.2	33.9	33.9	22.5	11.48	2.956
1,300.0	1,300.0	1,300.0	1,300.0	6.0	6.0	89.63	0.2	33.9	33.9	21.9	12.02	2.825
1,400.0	1,400.0	1,400.0	1,400.0	6.3	6.3	89.63	0.2	33.9	33.9	21.4	12.53	2.708
1,500.0	1,500.0	1,500.0	1,500.0	6.5	6.5	89.63	0.2	33.9	33.9	20.9	13.03	2.604
1,600.0	1,600.0	1,600.0	1,600.0	6.8	6.8	89.63	0.2	33.9	33.9	20.4	13.52	2.511
1,700.0	1,700.0	1,700.0	1,700.0	7.0	7.0	89.63	0.2	33.9	33.9	20.0	13.99	2.426
1,800.0	1,800.0	1,800.0	1,800.0	7.2	7.2	89.63	0.2	33.9	33.9	19.5	14.45	2.349
1,900.0	1,900.0	1,900.0	1,900.0	7.5	7.5	89.63	0.2	33.9	33.9	19.0	14.90	2.278
2,000.0	2,000.0	2,000.0	2,000.0	7.7	7.7	89.63	0.2	33.9	33.9	18.6	15.34	2.213
2,100.0	2,100.0	2,100.0	2,100.0	7.9	7.9	89.63	0.2	33.9	33.9	18.2	15.77	2.152
2,200.0	2,200.0	2,200.0	2,200.0	8.1	8.1	89.63	0.2	33.9	33.9	17.7	16.19	2.096
2,300.0	2,300.0	2,300.0	2,300.0	8.3	8.3	89.63	0.2	33.9	33.9	17.3	16.61	2.044
2,400.0	2,400.0	2,400.0	2,400.0	8.5	8.5	89.63	0.2	33.9	33.9	16.9	17.02	1.995
2,500.0	2,500.0	2,500.0	2,500.0	8.7	8.7	89.63	0.2	33.9	33.9	16.5	17.42	1.949
2,600.0	2,600.0	2,600.0	2,600.0	8.9	8.9	89.63	0.2	33.9	33.9	16.1	17.81	1.905
2,700.0	2,700.0	2,700.0	2,700.0	9.1	9.1	89.63	0.2	33.9	33.9	15.7	18.20	1.865
2,800.0	2,800.0	2,800.0	2,800.0	9.3	9.3	89.63	0.2	33.9	33.9	15.4	18.59	1.826
2,900.0	2,900.0	2,900.0	2,900.0	9.5	9.5	89.63	0.2	33.9	33.9	15.0	18.97	1.790
3,000.0	3,000.0	3,000.0	3,000.0	9.7	9.7	89.63	0.2	33.9	33.9	14.6	19.34	1.755
3,100.0	3,100.0	3,100.0	3,100.0	9.9	9.9	89.63	0.2	33.9	33.9	14.2	19.71	1.722
3,200.0	3,200.0	3,200.0	3,200.0	10.0	10.0	89.63	0.2	33.9	33.9	13.9	20.08	1.691
3,300.0	3,300.0	3,300.0	3,300.0	10.2	10.2	89.63	0.2	33.9	33.9	13.5	20.44	1.661
3,400.0	3,400.0	3,400.0	3,400.0	10.4	10.4	89.63	0.2	33.9	33.9	13.1	20.79	1.632
3,500.0	3,500.0	3,500.0	3,500.0	10.6	10.6	89.63	0.2	33.9	33.9	12.8	21.15	1.605
3,600.0	3,600.0	3,600.0	3,600.0	10.7	10.7	89.63	0.2	33.9	33.9	12.4	21.50	1.579
3,700.0	3,700.0	3,700.0	3,700.0	10.9	10.9	89.63	0.2	33.9	33.9	12.1	21.85	1.554
3,800.0	3,800.0	3,800.0	3,800.0	11.1	11.1	89.63	0.2	33.9	33.9	11.7	22.19	1.529
3,900.0	3,900.0	3,900.0	3,900.0	11.3	11.3	89.63	0.2	33.9	33.9	11.4	22.53	1.506
4,000.0	4,000.0	4,000.0	4,000.0	11.4	11.4	89.63	0.2	33.9	33.9	11.1	22.87	1.484 Level 3
4,100.0	4,100.0	4,100.0	4,100.0	11.6	11.6	89.63	0.2	33.9	33.9	10.7	23.21	1.463 Level 3
4,200.0	4,200.0	4,200.0	4,200.0	11.8	11.8	89.63	0.2	33.9	33.9	10.4	23.54	1.442 Level 3
4,300.0	4,300.0	4,300.0	4,300.0	11.9	11.9	89.63	0.2	33.9	33.9	10.1	23.87	1.422 Level 3
4,400.0	4,400.0	4,400.0	4,400.0	12.1	12.1	89.63	0.2	33.9	33.9	9.7	24.20	1.403 Level 3
4,500.0	4,500.0	4,500.0	4,500.0	12.3	12.3	89.63	0.2	33.9	33.9	9.4	24.53	1.384 Level 3
4,600.0	4,600.0	4,600.0	4,600.0	12.4	12.4	89.63	0.2	33.9	33.9	9.1	24.85	1.366 Level 3
4,700.0	4,700.0	4,700.0	4,700.0	12.6	12.6	89.63	0.2	33.9	33.9	8.8	25.17	1.348 Level 3
4,800.0	4,800.0	4,800.0	4,800.0	12.7	12.7	89.63	0.2	33.9	33.9	8.4	25.49	1.331 Level 3
4,900.0	4,900.0	4,900.0	4,900.0	12.9	12.9	89.63	0.2	33.9	33.9	8.1	25.81	1.315 Level 3
5,000.0	5,000.0	5,000.0	5,000.0	13.1	13.1	89.63	0.2	33.9	33.9	7.8	26.13	1.299 Level 3
5,100.0	5,100.0	5,100.0	5,100.0	13.2	13.2	-58.61	0.2	33.9	33.5	7.1	26.37	1.270 Level 3

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 503H
Project:	Hat Mesa	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 503H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 503H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 503H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 555H - Anderson Fed Com 555H - Anderson Fed Com 555H - Prelim 1													Offset Site Error: 0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.0 usft
Reference	Offset	Rule Assigned:											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
				(usft)	(usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,200.0	5,200.0	5,200.0	5,200.0	13.2	13.4	-62.60	0.2	33.9	32.2	5.6	26.59	1.210	Level 3
5,300.0	5,299.9	5,299.6	5,299.6	13.3	13.5	-68.43	-0.5	34.5	30.8	4.0	26.75	1.151	Level 3
5,311.1	5,310.9	5,310.7	5,310.7	13.3	13.5	-69.11	-0.6	34.6	30.7	3.9	26.76	1.146	Level 3
5,400.0	5,399.7	5,399.4	5,399.4	13.4	13.5	-73.54	-2.6	36.0	30.0	3.2	26.85	1.119	Level 3
5,450.0	5,449.6	5,449.3	5,449.2	13.5	13.6	-75.00	-4.1	37.2	30.0	3.0	26.92	1.113	Level 3, CC
5,500.0	5,499.6	5,499.2	5,499.1	13.5	13.6	-75.68	-6.0	38.6	30.0	3.0	26.99	1.113	Level 3
5,600.0	5,599.4	5,599.2	5,598.9	13.7	13.7	-76.18	-10.2	41.8	30.3	3.2	27.13	1.118	Level 3
5,700.0	5,699.3	5,699.2	5,698.8	13.8	13.9	-76.67	-14.4	44.9	30.6	3.3	27.28	1.123	Level 3
5,800.0	5,799.1	5,799.2	5,798.7	14.0	14.0	-77.15	-18.6	48.1	30.9	3.5	27.44	1.127	Level 3
5,900.0	5,899.0	5,899.2	5,898.5	14.2	14.2	-77.61	-22.9	51.2	31.2	3.6	27.60	1.132	Level 3
6,000.0	5,998.8	5,999.2	5,998.4	14.4	14.3	-78.07	-27.1	54.4	31.5	3.8	27.76	1.136	Level 3
6,100.0	6,098.7	6,099.2	6,098.2	14.6	14.5	-78.53	-31.3	57.6	31.9	3.9	27.93	1.141	Level 3
6,200.0	6,198.5	6,199.2	6,198.1	14.8	14.7	-78.97	-35.5	60.7	32.2	4.1	28.09	1.145	Level 3
6,300.0	6,298.4	6,299.2	6,298.0	15.1	14.9	-79.40	-39.7	63.9	32.5	4.2	28.26	1.149	Level 3
6,400.0	6,398.2	6,399.2	6,397.8	15.3	15.1	-79.83	-43.9	67.0	32.8	4.4	28.44	1.153	Level 3
6,500.0	6,498.1	6,499.2	6,497.7	15.6	15.4	-80.24	-48.1	70.2	33.1	4.5	28.61	1.157	Level 3
6,600.0	6,597.9	6,599.2	6,597.5	15.9	15.6	-80.65	-52.3	73.3	33.4	4.6	28.79	1.161	Level 3
6,700.0	6,697.8	6,699.2	6,697.4	16.2	15.9	-81.05	-56.5	76.5	33.7	4.8	28.97	1.165	Level 3
6,800.0	6,797.7	6,799.2	6,797.3	16.4	16.1	-81.45	-60.7	79.6	34.1	4.9	29.15	1.169	Level 3
6,900.0	6,897.5	6,899.2	6,897.1	16.8	16.4	-81.84	-64.9	82.8	34.4	5.1	29.33	1.172	Level 3
7,000.0	6,997.4	6,999.2	6,997.0	17.1	16.7	-82.22	-69.1	85.9	34.7	5.2	29.51	1.176	Level 3
7,100.0	7,097.2	7,099.2	7,096.9	17.4	17.0	-82.59	-73.3	89.1	35.0	5.3	29.70	1.180	Level 3
7,200.0	7,197.1	7,199.2	7,196.7	17.7	17.3	-82.95	-77.5	92.3	35.4	5.5	29.89	1.183	Level 3
7,300.0	7,296.9	7,299.2	7,296.6	18.0	17.6	-83.31	-81.7	95.4	35.7	5.6	30.07	1.187	Level 3
7,400.0	7,396.8	7,399.2	7,396.4	18.4	17.9	-83.66	-85.9	98.6	36.0	5.8	30.26	1.190	Level 3
7,500.0	7,496.6	7,499.2	7,496.3	18.7	18.3	-84.01	-90.1	101.7	36.4	5.9	30.46	1.194	Level 3
7,600.0	7,596.5	7,599.2	7,596.2	19.1	18.6	-84.35	-94.4	104.9	36.7	6.0	30.65	1.197	Level 3
7,700.0	7,696.3	7,699.2	7,696.0	19.4	18.9	-84.68	-98.6	108.0	37.0	6.2	30.84	1.200	Level 3
7,800.0	7,796.2	7,799.2	7,795.9	19.8	19.3	-85.01	-102.8	111.2	37.4	6.3	31.04	1.203	Level 3
7,900.0	7,896.0	7,899.2	7,895.7	20.2	19.6	-85.33	-107.0	114.3	37.7	6.5	31.24	1.207	Level 3
8,000.0	7,995.9	7,999.2	7,995.6	20.5	20.0	-85.65	-111.2	117.5	38.0	6.6	31.44	1.210	Level 3
8,100.0	8,095.7	8,099.2	8,095.5	20.9	20.3	-85.96	-115.4	120.6	38.4	6.7	31.64	1.213	Level 3
8,200.0	8,195.6	8,199.2	8,195.3	21.3	20.7	-86.27	-119.6	123.8	38.7	6.9	31.84	1.216	Level 3
8,300.0	8,295.4	8,299.2	8,295.2	21.7	21.1	-86.56	-123.8	127.0	39.0	7.0	32.04	1.219	Level 3
8,400.0	8,395.3	8,399.2	8,395.0	22.1	21.4	-86.86	-128.0	130.1	39.4	7.1	32.25	1.221	Level 3
8,500.0	8,495.1	8,499.2	8,494.9	22.5	21.8	-87.15	-132.2	133.3	39.7	7.3	32.45	1.224	Level 3
8,600.0	8,595.0	8,599.2	8,594.8	22.9	22.2	-87.43	-136.4	136.4	40.1	7.4	32.66	1.227	Level 3
8,700.0	8,694.9	8,699.2	8,694.6	23.3	22.6	-87.71	-140.6	139.6	40.4	7.5	32.87	1.230	Level 3
8,800.0	8,794.7	8,799.2	8,794.5	23.7	23.0	-87.99	-144.8	142.7	40.8	7.7	33.08	1.232	Level 3
8,900.0	8,894.6	8,899.2	8,894.3	24.1	23.4	-88.26	-149.0	145.9	41.1	7.8	33.30	1.235	Level 3
9,000.0	8,994.4	8,999.2	8,994.2	24.5	23.8	-88.52	-153.2	149.0	41.5	7.9	33.51	1.237	Level 3
9,100.0	9,094.3	9,099.2	9,094.1	24.9	24.2	-88.79	-157.4	152.2	41.8	8.1	33.73	1.240	Level 3
9,200.0	9,194.1	9,199.2	9,193.9	25.3	24.6	-89.04	-161.6	155.3	42.2	8.2	33.95	1.242	Level 3
9,300.0	9,294.0	9,299.2	9,293.8	25.7	25.0	-89.30	-165.9	158.5	42.5	8.3	34.17	1.244	Level 3
9,395.2	9,389.0	9,394.4	9,388.9	26.1	25.4	-89.53	-169.9	161.5	42.8	8.5	34.37	1.246	Level 3
9,400.0	9,393.8	9,399.2	9,393.7	26.1	25.4	-89.54	-170.1	161.7	42.9	8.5	34.38	1.247	Level 3
9,500.0	9,493.7	9,499.2	9,493.5	26.5	25.8	-88.52	-174.3	164.8	43.2	8.6	34.63	1.248	Level 3
9,600.0	9,593.7	9,599.1	9,593.3	26.9	26.2	-85.24	-178.5	168.0	43.7	8.6	35.06	1.247	Level 3
9,706.3	9,700.0	9,705.4	9,699.4	27.1	26.7	67.56	-182.9	171.3	44.7	8.7	36.05	1.240	Level 3
9,728.9	9,722.5	9,727.9	9,721.9	27.1	26.7	69.02	-183.9	172.0	45.0	8.7	36.34	1.238	Level 3
9,750.0	9,743.7	9,749.0	9,742.9	27.1	26.8	62.62	-184.8	172.7	45.1	8.4	36.75	1.227	Level 3
9,775.0	9,768.6	9,773.8	9,767.7	27.0	26.9	66.23	-185.8	173.5	44.8	7.2	37.63	1.190	Level 3

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 503H
Project:	Hat Mesa	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 503H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 503H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 503H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 555H - Anderson Fed Com 555H - Anderson Fed Com 555H - Prelim 1													Offset Site Error: 0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.0 usft
Reference	Offset	Rule Assigned:											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
				(usft)	(usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,800.0	9,793.4	9,798.5	9,792.4	27.0	27.0	71.44	-186.9	174.2	44.2	5.1	39.09	1.131	Level 3
9,825.0	9,818.0	9,822.9	9,816.8	26.9	27.1	78.27	-187.9	175.0	43.7	2.5	41.26	1.060	Level 3
9,836.1	9,828.9	9,833.6	9,827.5	26.9	27.2	81.80	-188.3	175.4	43.7	1.2	42.47	1.028	Level 3
9,850.0	9,842.4	9,847.0	9,840.8	26.8	27.2	86.60	-188.9	175.8	43.8	-0.4	44.15	0.992	Level 3
9,875.0	9,866.4	9,870.7	9,864.5	26.7	27.3	96.00	-189.9	176.5	45.0	-2.4	47.42	0.948	Level 3
9,900.0	9,890.0	9,894.0	9,887.8	26.7	27.4	105.75	-190.9	177.3	47.8	-2.6	50.43	0.947	Level 3, ES, SF
9,925.0	9,913.2	9,916.8	9,910.6	26.6	27.5	115.04	-191.8	178.0	52.6	0.0	52.61	0.999	Level 3
9,950.0	9,935.9	9,939.0	9,932.8	26.5	27.6	123.30	-192.8	178.7	59.5	5.7	53.80	1.106	Level 3
9,975.0	9,957.9	9,960.7	9,954.4	26.4	27.7	130.28	-193.7	179.4	68.4	14.3	54.16	1.264	Level 3
10,000.0	9,979.3	9,981.9	9,975.6	26.3	27.8	136.06	-194.5	180.0	79.2	25.2	53.99	1.467	Level 3
10,025.0	10,000.0	10,002.4	9,996.1	26.3	27.9	140.72	-195.3	180.6	91.5	38.0	53.56	1.709	
10,050.0	10,020.0	10,022.3	10,015.9	26.2	27.9	144.45	-196.0	181.1	105.3	52.3	53.00	1.988	
10,075.0	10,039.1	10,041.3	10,034.9	26.1	28.0	147.41	-196.5	181.5	120.4	68.0	52.42	2.297	
10,100.0	10,057.4	10,059.5	10,053.1	26.0	28.1	149.74	-197.1	181.9	136.7	84.8	51.86	2.636	
10,125.0	10,074.8	10,076.8	10,070.4	26.0	28.1	151.55	-197.5	182.3	154.0	102.7	51.35	3.000	
10,150.0	10,091.2	10,093.2	10,086.8	25.9	28.2	152.92	-197.9	182.5	172.4	121.5	50.88	3.388	
10,175.0	10,106.5	10,108.6	10,102.2	25.9	28.3	153.90	-198.3	182.8	191.6	141.2	50.45	3.799	
10,200.0	10,120.9	10,123.0	10,116.6	25.9	28.3	154.51	-198.5	183.0	211.7	161.7	50.07	4.229	
10,225.0	10,134.1	10,136.4	10,130.0	25.8	28.4	154.76	-198.8	183.2	232.6	182.9	49.72	4.677	
10,250.0	10,146.2	10,148.6	10,142.2	25.8	28.4	154.65	-199.0	183.3	254.1	204.7	49.42	5.142	
10,275.0	10,157.1	10,159.7	10,153.3	25.8	28.4	154.12	-199.1	183.5	276.3	227.2	49.15	5.622	
10,300.0	10,166.9	10,169.6	10,163.2	25.8	28.5	153.10	-199.3	183.5	299.1	250.2	48.91	6.115	
10,325.0	10,175.4	10,178.3	10,171.9	25.8	28.5	151.43	-199.4	183.6	322.3	273.6	48.70	6.619	
10,350.0	10,182.7	10,185.7	10,179.3	25.9	28.5	148.87	-199.4	183.7	346.0	297.5	48.50	7.133	
10,375.0	10,188.7	10,191.8	10,185.4	25.9	28.5	144.98	-199.5	183.7	370.0	321.7	48.34	7.656	
10,400.0	10,193.5	10,196.7	10,190.2	25.9	28.6	138.96	-199.5	183.8	394.4	346.2	48.19	8.185	
10,425.0	10,197.0	10,200.2	10,193.7	26.0	28.6	129.33	-199.6	183.8	419.0	370.9	48.05	8.719	
10,450.0	10,199.1	10,202.3	10,195.8	26.1	28.6	113.68	-199.6	183.8	443.7	395.8	47.94	9.256	
10,475.0	10,200.0	10,203.0	10,196.6	26.2	28.6	90.38	-199.6	183.8	468.5	420.7	47.83	9.795	
10,478.9	10,200.0	10,203.0	10,196.6	26.2	28.6	86.30	-199.6	183.8	472.3	424.5	47.82	9.878	
10,488.8	10,200.0	10,202.9	10,196.5	26.2	28.6	86.22	-199.6	183.8	482.2	434.5	47.78	10.093	
10,500.0	10,200.0	10,202.8	10,196.4	26.3	28.6	86.00	-199.6	183.8	493.4	445.6	47.74	10.334	
10,600.0	10,200.0	10,202.1	10,195.7	26.7	28.6	82.40	-199.6	183.8	593.0	545.5	47.52	12.480	
10,700.0	10,200.0	11,335.4	10,840.0	27.4	28.7	179.02	492.2	233.6	640.1	580.0	60.08	10.653	
10,800.0	10,200.0	11,435.4	10,840.0	28.2	29.4	179.51	592.2	233.3	640.0	579.2	60.78	10.530	
10,900.0	10,200.0	11,535.4	10,840.0	29.1	30.1	179.73	692.1	232.7	640.0	578.5	61.52	10.403	
10,918.2	10,200.0	11,553.6	10,840.0	29.2	30.2	179.74	710.4	232.6	640.0	578.3	61.66	10.379	
11,000.0	10,200.0	11,635.4	10,840.0	29.9	30.9	179.74	792.1	232.1	640.0	577.7	62.30	10.272	
11,100.0	10,200.0	11,735.4	10,840.0	30.9	31.9	179.74	892.1	231.5	640.0	576.8	63.16	10.133	
11,200.0	10,200.0	11,835.4	10,840.0	32.0	32.9	179.75	992.1	230.8	640.0	575.9	64.08	9.988	
11,300.0	10,200.0	11,935.4	10,840.0	33.2	34.1	179.75	1,092.1	230.2	640.0	574.9	65.06	9.837	
11,400.0	10,200.0	12,035.4	10,840.0	34.5	35.4	179.76	1,192.1	229.6	640.0	573.9	66.10	9.682	
11,500.0	10,200.0	12,135.4	10,840.0	35.9	36.7	179.76	1,292.1	228.9	640.0	572.8	67.19	9.525	
11,600.0	10,200.0	12,235.4	10,840.0	37.4	38.1	179.77	1,392.1	228.3	640.0	571.7	68.34	9.365	
11,700.0	10,200.0	12,335.4	10,840.0	38.9	39.6	179.77	1,492.1	227.7	640.0	570.5	69.54	9.204	
11,800.0	10,200.0	12,435.4	10,840.0	40.5	41.2	179.77	1,592.1	227.1	640.0	569.2	70.78	9.042	
11,900.0	10,200.0	12,535.4	10,840.0	42.1	42.7	179.78	1,692.1	226.4	640.0	567.9	72.07	8.880	
12,000.0	10,200.0	12,635.4	10,840.0	43.7	44.4	179.78	1,792.1	225.8	640.0	566.6	73.41	8.719	
12,100.0	10,200.0	12,735.4	10,840.0	45.4	46.0	179.79	1,892.1	225.2	640.0	565.2	74.78	8.558	
12,200.0	10,200.0	12,835.4	10,840.0	47.1	47.7	179.79	1,992.1	224.6	640.0	563.8	76.19	8.400	
12,300.0	10,200.0	12,935.4	10,840.0	48.9	49.5	179.80	2,092.1	223.9	640.0	562.4	77.64	8.243	
12,400.0	10,200.0	13,035.4	10,840.0	50.7	51.2	179.80	2,192.1	223.3	640.0	560.9	79.12	8.089	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 503H
Project:	Hat Mesa	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 503H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 503H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 503H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 555H - Anderson Fed Com 555H - Anderson Fed Com 555H - Prelim 1													Offset Site Error:	0.0 usft			
Survey Program: 0-MWD+HRGM				Reference		Offset		Semi Major Axis		Highside		Offset Wellbore Centre		Rule Assigned:		Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning				
12,500.0	10,200.0	13,135.4	10,840.0	52.4	53.0	179.81	2,292.1	222.7	640.0	559.4	80.64	7.937					
12,600.0	10,200.0	13,235.4	10,840.0	54.3	54.8	179.81	2,392.1	222.0	640.0	557.8	82.18	7.788					
12,700.0	10,200.0	13,335.4	10,840.0	56.1	56.6	179.81	2,492.1	221.4	640.0	556.2	83.75	7.641					
12,800.0	10,200.0	13,435.4	10,840.0	57.9	58.4	179.82	2,592.1	220.8	640.0	554.6	85.35	7.498					
12,900.0	10,200.0	13,535.4	10,840.0	59.8	60.2	179.82	2,692.1	220.2	640.0	553.0	86.98	7.358					
13,000.0	10,200.0	13,635.4	10,840.0	61.6	62.1	179.83	2,792.1	219.5	640.0	551.4	88.63	7.221					
13,100.0	10,200.0	13,735.4	10,840.0	63.5	63.9	179.83	2,892.1	218.9	640.0	549.7	90.31	7.087					
13,200.0	10,200.0	13,835.4	10,840.0	65.4	65.8	179.84	2,992.1	218.3	640.0	548.0	92.00	6.956					
13,300.0	10,200.0	13,935.4	10,840.0	67.3	67.7	179.84	3,092.1	217.6	640.0	546.3	93.72	6.829					
13,400.0	10,200.0	14,035.4	10,840.0	69.1	69.6	179.85	3,192.1	217.0	640.0	544.5	95.45	6.705					
13,500.0	10,200.0	14,135.4	10,840.0	71.1	71.5	179.85	3,292.1	216.4	640.0	542.8	97.21	6.584					
13,600.0	10,200.0	14,235.4	10,840.0	73.0	73.4	179.85	3,392.1	215.8	640.0	541.0	98.98	6.466					
13,700.0	10,200.0	14,335.4	10,840.0	74.9	75.3	179.86	3,492.1	215.1	640.0	539.2	100.77	6.351					
13,800.0	10,200.0	14,435.4	10,840.0	76.8	77.2	179.86	3,592.1	214.5	640.0	537.4	102.57	6.240					
13,900.0	10,200.0	14,535.4	10,840.0	78.7	79.1	179.87	3,692.1	213.9	640.0	535.6	104.39	6.131					
14,000.0	10,200.0	14,635.4	10,840.0	80.7	81.0	179.87	3,792.1	213.2	640.0	533.8	106.22	6.025					
14,100.0	10,200.0	14,735.4	10,840.0	82.6	83.0	179.88	3,892.1	212.6	640.0	531.9	108.07	5.922					
14,200.0	10,200.0	14,835.4	10,840.0	84.5	84.9	179.88	3,992.1	212.0	640.0	530.1	109.92	5.822					
14,300.0	10,200.0	14,935.4	10,840.0	86.5	86.8	179.89	4,092.1	211.4	640.0	528.2	111.79	5.725					
14,400.0	10,200.0	15,035.4	10,840.0	88.4	88.8	179.89	4,192.1	210.7	640.0	526.3	113.68	5.630					
14,500.0	10,200.0	15,135.4	10,840.0	90.4	90.7	179.89	4,292.1	210.1	640.0	524.4	115.57	5.538					
14,600.0	10,200.0	15,235.4	10,840.0	92.3	92.7	179.90	4,392.1	209.5	640.0	522.5	117.47	5.448					
14,700.0	10,200.0	15,335.4	10,840.0	94.3	94.6	179.90	4,492.1	208.8	640.0	520.6	119.38	5.361					
14,800.0	10,200.0	15,435.4	10,840.0	96.2	96.6	179.91	4,592.1	208.2	640.0	518.7	121.31	5.276					
14,900.0	10,200.0	15,535.4	10,840.0	98.2	98.5	179.91	4,692.1	207.6	640.0	516.8	123.24	5.193					
15,000.0	10,200.0	15,635.4	10,840.0	100.1	100.5	179.92	4,792.1	207.0	640.0	514.8	125.18	5.113					
15,100.0	10,200.0	15,735.4	10,840.0	102.1	102.5	179.92	4,892.1	206.3	640.0	512.9	127.13	5.034					
15,200.0	10,200.0	15,835.4	10,840.0	104.1	104.4	179.92	4,992.1	205.7	640.0	510.9	129.08	4.958					
15,300.0	10,200.0	15,935.4	10,840.0	106.0	106.4	179.93	5,092.1	205.1	640.0	509.0	131.05	4.884					
15,400.0	10,200.0	16,035.4	10,840.0	108.0	108.3	179.93	5,192.1	204.4	640.0	507.0	133.02	4.811					
15,500.0	10,200.0	16,135.4	10,840.0	110.0	110.3	179.94	5,292.1	203.8	640.0	505.0	134.99	4.741					
15,600.0	10,200.0	16,235.4	10,840.0	112.0	112.3	179.94	5,392.1	203.2	640.0	503.0	136.98	4.672					
15,700.0	10,200.0	16,335.4	10,840.0	113.9	114.3	179.95	5,492.0	202.6	640.0	501.0	138.97	4.605					
15,800.0	10,200.0	16,435.4	10,840.0	115.9	116.2	179.95	5,592.0	201.9	640.0	499.0	140.96	4.540					
15,900.0	10,200.0	16,535.4	10,840.0	117.9	118.2	179.96	5,692.0	201.3	640.0	497.0	142.96	4.477					
16,000.0	10,200.0	16,635.4	10,840.0	119.9	120.2	179.96	5,792.0	200.7	640.0	495.0	144.97	4.415					
16,100.0	10,200.0	16,735.4	10,840.0	121.8	122.2	179.96	5,892.0	200.0	640.0	493.0	146.98	4.354					
16,200.0	10,200.0	16,835.4	10,840.0	123.8	124.1	179.97	5,992.0	199.4	640.0	491.0	149.00	4.295					
16,300.0	10,200.0	16,935.4	10,840.0	125.8	126.1	179.97	6,092.0	198.8	640.0	489.0	151.02	4.238					
16,400.0	10,200.0	17,035.4	10,840.0	127.8	128.1	179.98	6,192.0	198.2	640.0	486.9	153.05	4.182					
16,500.0	10,200.0	17,135.4	10,840.0	129.8	130.1	179.98	6,292.0	197.5	640.0	484.9	155.08	4.127					
16,600.0	10,200.0	17,235.4	10,840.0	131.8	132.1	179.99	6,392.0	196.9	640.0	482.9	157.12	4.073					
16,700.0	10,200.0	17,335.4	10,840.0	133.8	134.0	179.99	6,492.0	196.3	640.0	480.8	159.16	4.021					
16,800.0	10,200.0	17,435.4	10,840.0	135.7	136.0	180.00	6,592.0	195.6	640.0	478.8	161.20	3.970					
16,893.7	10,200.0	17,529.1	10,840.0	137.6	137.9	180.00	6,685.7	195.1	640.0	476.9	163.12	3.924					

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 503H
Project:	Hat Mesa	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 503H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 503H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 503H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 556H - Anderson Fed Com 556H - Anderson Fed Com 556H - Prelim 1											Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM											Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Rule Assigned:	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
0.0	0.0	0.0	0.0	0.0	0.0	89.32	0.8	66.6	66.6			
100.0	100.0	100.0	100.0	0.5	0.5	89.32	0.8	66.6	66.6	65.6	1.07	62.336
200.0	200.0	200.0	200.0	1.7	1.7	89.32	0.8	66.6	66.6	63.2	3.43	19.442
300.0	300.0	300.0	300.0	2.4	2.4	89.32	0.8	66.6	66.6	61.8	4.83	13.810
400.0	400.0	400.0	400.0	3.0	3.0	89.32	0.8	66.6	66.6	60.7	5.91	11.276
500.0	500.0	500.0	500.0	3.4	3.4	89.32	0.8	66.6	66.6	59.8	6.83	9.755
600.0	600.0	600.0	600.0	3.8	3.8	89.32	0.8	66.6	66.6	59.0	7.65	8.711
700.0	700.0	700.0	700.0	4.2	4.2	89.32	0.8	66.6	66.6	58.3	8.40	7.938
800.0	800.0	800.0	800.0	4.5	4.5	89.32	0.8	66.6	66.6	57.6	9.09	7.336
900.0	900.0	900.0	900.0	4.9	4.9	89.32	0.8	66.6	66.6	56.9	9.73	6.849
1,000.0	1,000.0	1,000.0	1,000.0	5.2	5.2	89.32	0.8	66.6	66.6	56.3	10.34	6.444
1,100.0	1,100.0	1,100.0	1,100.0	5.5	5.5	89.32	0.8	66.6	66.6	55.7	10.92	6.101
1,200.0	1,200.0	1,200.0	1,200.0	5.7	5.7	89.32	0.8	66.6	66.6	55.2	11.48	5.805
1,300.0	1,300.0	1,300.0	1,300.0	6.0	6.0	89.32	0.8	66.6	66.6	54.6	12.02	5.547
1,400.0	1,400.0	1,400.0	1,400.0	6.3	6.3	89.32	0.8	66.6	66.6	54.1	12.53	5.318
1,500.0	1,500.0	1,500.0	1,500.0	6.5	6.5	89.32	0.8	66.6	66.6	53.6	13.03	5.114
1,600.0	1,600.0	1,600.0	1,600.0	6.8	6.8	89.32	0.8	66.6	66.6	53.1	13.52	4.930
1,700.0	1,700.0	1,700.0	1,700.0	7.0	7.0	89.32	0.8	66.6	66.6	52.7	13.99	4.764
1,800.0	1,800.0	1,800.0	1,800.0	7.2	7.2	89.32	0.8	66.6	66.6	52.2	14.45	4.612
1,900.0	1,900.0	1,900.0	1,900.0	7.5	7.5	89.32	0.8	66.6	66.6	51.7	14.90	4.473
2,000.0	2,000.0	2,000.0	2,000.0	7.7	7.7	89.32	0.8	66.6	66.6	51.3	15.34	4.345
2,100.0	2,100.0	2,100.0	2,100.0	7.9	7.9	89.32	0.8	66.6	66.6	50.9	15.77	4.226
2,200.0	2,200.0	2,200.0	2,200.0	8.1	8.1	89.32	0.8	66.6	66.6	50.5	16.19	4.116
2,300.0	2,300.0	2,300.0	2,300.0	8.3	8.3	89.32	0.8	66.6	66.6	50.0	16.61	4.013
2,400.0	2,400.0	2,400.0	2,400.0	8.5	8.5	89.32	0.8	66.6	66.6	49.6	17.02	3.917
2,500.0	2,500.0	2,500.0	2,500.0	8.7	8.7	89.32	0.8	66.6	66.6	49.2	17.42	3.826
2,600.0	2,600.0	2,600.0	2,600.0	8.9	8.9	89.32	0.8	66.6	66.6	48.8	17.81	3.742
2,700.0	2,700.0	2,700.0	2,700.0	9.1	9.1	89.32	0.8	66.6	66.6	48.4	18.20	3.661
2,800.0	2,800.0	2,800.0	2,800.0	9.3	9.3	89.32	0.8	66.6	66.6	48.1	18.59	3.586
2,900.0	2,900.0	2,900.0	2,900.0	9.5	9.5	89.32	0.8	66.6	66.6	47.7	18.97	3.514
3,000.0	3,000.0	3,000.0	3,000.0	9.7	9.7	89.32	0.8	66.6	66.6	47.3	19.34	3.446
3,100.0	3,100.0	3,100.0	3,100.0	9.9	9.9	89.32	0.8	66.6	66.6	46.9	19.71	3.381
3,200.0	3,200.0	3,200.0	3,200.0	10.0	10.0	89.32	0.8	66.6	66.6	46.6	20.08	3.320
3,300.0	3,300.0	3,300.0	3,300.0	10.2	10.2	89.32	0.8	66.6	66.6	46.2	20.44	3.261
3,400.0	3,400.0	3,400.0	3,400.0	10.4	10.4	89.32	0.8	66.6	66.6	45.9	20.79	3.205
3,500.0	3,500.0	3,500.0	3,500.0	10.6	10.6	89.32	0.8	66.6	66.6	45.5	21.15	3.151
3,600.0	3,600.0	3,600.0	3,600.0	10.7	10.7	89.32	0.8	66.6	66.6	45.1	21.50	3.100
3,700.0	3,700.0	3,700.0	3,700.0	10.9	10.9	89.32	0.8	66.6	66.6	44.8	21.85	3.051
3,800.0	3,800.0	3,800.0	3,800.0	11.1	11.1	89.32	0.8	66.6	66.6	44.5	22.19	3.003
3,900.0	3,900.0	3,900.0	3,900.0	11.3	11.3	89.32	0.8	66.6	66.6	44.1	22.53	2.958
4,000.0	4,000.0	4,000.0	4,000.0	11.4	11.4	89.32	0.8	66.6	66.6	43.8	22.87	2.914
4,100.0	4,100.0	4,100.0	4,100.0	11.6	11.6	89.32	0.8	66.6	66.6	43.4	23.21	2.872
4,200.0	4,200.0	4,200.0	4,200.0	11.8	11.8	89.32	0.8	66.6	66.6	43.1	23.54	2.831
4,300.0	4,300.0	4,300.0	4,300.0	11.9	11.9	89.32	0.8	66.6	66.6	42.8	23.87	2.792
4,400.0	4,400.0	4,400.0	4,400.0	12.1	12.1	89.32	0.8	66.6	66.6	42.4	24.20	2.754
4,500.0	4,500.0	4,500.0	4,500.0	12.3	12.3	89.32	0.8	66.6	66.6	42.1	24.53	2.717
4,600.0	4,600.0	4,600.0	4,600.0	12.4	12.4	89.32	0.8	66.6	66.6	41.8	24.85	2.682
4,700.0	4,700.0	4,700.0	4,700.0	12.6	12.6	89.32	0.8	66.6	66.6	41.5	25.17	2.648
4,800.0	4,800.0	4,800.0	4,800.0	12.7	12.7	89.32	0.8	66.6	66.6	41.2	25.49	2.615
4,900.0	4,900.0	4,900.0	4,900.0	12.9	12.9	89.32	0.8	66.6	66.6	40.8	25.81	2.582
5,000.0	5,000.0	5,000.0	5,000.0	13.1	13.1	89.32	0.8	66.6	66.6	40.5	26.13	2.551
5,100.0	5,100.0	5,100.0	5,100.0	13.2	13.2	-58.30	0.8	66.6	66.2	39.8	26.37	2.510

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 503H
Project:	Hat Mesa	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 503H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 503H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 503H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 556H - Anderson Fed Com 556H - Anderson Fed Com 556H - Prelim 1													Offset Site Error: 0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.0 usft
Reference	Offset	Rule Assigned:											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
				(usft)	(usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,200.0	5,200.0	5,200.0	5,200.0	13.2	13.4	-60.28	0.8	66.6	64.8	38.3	26.60	2.438	
5,300.0	5,299.9	5,299.9	5,299.9	13.3	13.5	-63.75	0.8	66.6	62.8	36.0	26.82	2.341	
5,311.1	5,310.9	5,310.9	5,310.9	13.3	13.5	-64.24	0.8	66.6	62.5	35.7	26.84	2.330	
5,400.0	5,399.7	5,399.7	5,399.7	13.4	13.7	-68.35	0.8	66.6	60.6	33.6	27.01	2.243	
5,500.0	5,499.6	5,499.1	5,499.1	13.5	13.8	-72.51	0.2	67.2	59.2	32.0	27.17	2.180	
5,583.6	5,583.1	5,582.3	5,582.3	13.6	13.8	-74.96	-1.3	68.7	58.9	31.6	27.29	2.158 CC	
5,600.0	5,599.4	5,598.6	5,598.5	13.7	13.9	-75.31	-1.7	69.0	58.9	31.6	27.31	2.157 ES, SF	
5,700.0	5,699.3	5,698.1	5,698.0	13.8	13.9	-76.61	-4.8	72.1	59.4	32.0	27.46	2.165	
5,800.0	5,799.1	5,797.8	5,797.5	14.0	14.0	-76.50	-9.0	76.2	60.7	33.1	27.56	2.201	
5,900.0	5,899.0	5,897.8	5,897.3	14.2	14.1	-76.10	-13.5	80.6	62.0	34.3	27.71	2.238	
6,000.0	5,998.8	5,997.8	5,997.1	14.4	14.3	-75.73	-18.0	85.0	63.4	35.5	27.88	2.273	
6,100.0	6,098.7	6,097.8	6,096.9	14.6	14.4	-75.36	-22.5	89.3	64.8	36.7	28.07	2.307	
6,200.0	6,198.5	6,197.8	6,196.7	14.8	14.6	-75.02	-27.0	93.7	66.1	37.9	28.26	2.340	
6,300.0	6,298.4	6,297.8	6,296.5	15.1	14.8	-74.69	-31.5	98.1	67.5	39.0	28.46	2.372	
6,400.0	6,398.2	6,397.8	6,396.3	15.3	15.0	-74.37	-36.0	102.5	68.9	40.2	28.67	2.403	
6,500.0	6,498.1	6,497.8	6,496.1	15.6	15.2	-74.06	-40.5	106.9	70.3	41.4	28.88	2.433	
6,600.0	6,597.9	6,597.8	6,595.9	15.9	15.4	-73.77	-45.0	111.3	71.6	42.5	29.11	2.461	
6,700.0	6,697.8	6,697.8	6,695.7	16.2	15.7	-73.48	-49.5	115.6	73.0	43.7	29.34	2.488	
6,800.0	6,797.7	6,797.7	6,795.5	16.4	15.9	-73.21	-54.0	120.0	74.4	44.8	29.59	2.515	
6,900.0	6,897.5	6,897.7	6,895.3	16.8	16.2	-72.95	-58.5	124.4	75.8	46.0	29.84	2.540	
7,000.0	6,997.4	6,997.7	6,995.0	17.1	16.5	-72.69	-62.9	128.8	77.2	47.1	30.10	2.564	
7,100.0	7,097.2	7,097.7	7,094.8	17.4	16.8	-72.45	-67.4	133.2	78.6	48.2	30.37	2.587	
7,200.0	7,197.1	7,197.7	7,194.6	17.7	17.1	-72.21	-71.9	137.6	80.0	49.3	30.65	2.609	
7,300.0	7,296.9	7,297.7	7,294.4	18.0	17.4	-71.99	-76.4	141.9	81.3	50.4	30.94	2.630	
7,400.0	7,396.8	7,397.7	7,394.2	18.4	17.7	-71.77	-80.9	146.3	82.7	51.5	31.23	2.649	
7,500.0	7,496.6	7,497.7	7,494.0	18.7	18.0	-71.55	-85.4	150.7	84.1	52.6	31.53	2.668	
7,600.0	7,596.5	7,597.7	7,593.8	19.1	18.4	-71.35	-89.9	155.1	85.5	53.7	31.85	2.686	
7,700.0	7,696.3	7,697.7	7,693.6	19.4	18.7	-71.15	-94.4	159.5	86.9	54.8	32.16	2.703	
7,800.0	7,796.2	7,797.6	7,793.4	19.8	19.1	-70.95	-98.9	163.9	88.3	55.8	32.49	2.718	
7,900.0	7,896.0	7,897.6	7,893.2	20.2	19.4	-70.77	-103.4	168.2	89.7	56.9	32.83	2.733	
8,000.0	7,995.9	7,997.6	7,993.0	20.5	19.8	-70.59	-107.9	172.6	91.1	57.9	33.17	2.747	
8,100.0	8,095.7	8,097.6	8,092.8	20.9	20.1	-70.41	-112.4	177.0	92.5	59.0	33.52	2.760	
8,200.0	8,195.6	8,197.6	8,192.6	21.3	20.5	-70.24	-116.9	181.4	93.9	60.0	33.87	2.772	
8,300.0	8,295.4	8,297.6	8,292.3	21.7	20.9	-70.07	-121.4	185.8	95.3	61.1	34.24	2.784	
8,400.0	8,395.3	8,397.6	8,392.1	22.1	21.3	-69.91	-125.9	190.2	96.7	62.1	34.61	2.795	
8,500.0	8,495.1	8,497.6	8,491.9	22.5	21.7	-69.76	-130.4	194.5	98.1	63.1	34.99	2.805	
8,600.0	8,595.0	8,597.6	8,591.7	22.9	22.1	-69.61	-134.9	198.9	99.5	64.2	35.37	2.814	
8,700.0	8,694.9	8,697.5	8,691.5	23.3	22.5	-69.46	-139.4	203.3	100.9	65.2	35.76	2.822	
8,800.0	8,794.7	8,797.5	8,791.3	23.7	22.9	-69.31	-143.9	207.7	102.3	66.2	36.16	2.830	
8,900.0	8,894.6	8,897.5	8,891.1	24.1	23.3	-69.17	-148.4	212.1	103.7	67.2	36.56	2.838	
9,000.0	8,994.4	8,997.5	8,990.9	24.5	23.7	-69.04	-152.9	216.4	105.1	68.2	36.97	2.844	
9,100.0	9,094.3	9,097.5	9,090.7	24.9	24.1	-68.91	-157.3	220.8	106.6	69.2	37.38	2.850	
9,200.0	9,194.1	9,197.5	9,190.5	25.3	24.5	-68.78	-161.8	225.2	108.0	70.2	37.80	2.856	
9,300.0	9,294.0	9,297.5	9,290.3	25.7	24.9	-68.65	-166.3	229.6	109.4	71.1	38.23	2.861	
9,395.2	9,389.0	9,392.7	9,385.3	26.1	25.3	-68.54	-170.6	233.8	110.7	72.1	38.63	2.866	
9,400.0	9,393.8	9,397.5	9,390.1	26.1	25.3	-68.53	-170.8	234.0	110.8	72.1	38.65	2.866	
9,500.0	9,493.7	9,497.5	9,489.8	26.5	25.8	-67.97	-175.3	238.4	112.5	73.4	39.19	2.872	
9,600.0	9,593.7	9,597.4	9,589.6	26.9	26.2	-66.64	-179.8	242.7	115.0	75.0	39.96	2.878	
9,706.3	9,700.0	9,703.6	9,695.5	27.1	26.6	82.52	-184.6	247.4	118.5	77.5	40.99	2.890	
9,728.9	9,722.5	9,726.0	9,718.0	27.1	26.7	83.07	-185.6	248.4	119.3	78.1	41.22	2.895	
9,750.0	9,743.7	9,747.1	9,739.0	27.1	26.8	75.45	-186.6	249.3	120.0	78.5	41.51	2.892	
9,775.0	9,768.6	9,771.9	9,763.8	27.0	26.9	76.77	-187.7	250.4	120.6	78.6	42.03	2.870	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 503H
Project:	Hat Mesa	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 503H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 503H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 503H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 556H - Anderson Fed Com 556H - Anderson Fed Com 556H - Prelim 1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,800.0	9,793.4	9,796.6	9,788.4	27.0	27.0	78.68	-188.8	251.5	121.0	78.2	42.73	2.831	
9,825.0	9,818.0	9,821.0	9,812.7	26.9	27.1	81.14	-189.9	252.5	121.3	77.6	43.63	2.780	
9,850.0	9,842.4	9,845.1	9,836.8	26.8	27.2	84.12	-191.0	253.6	121.7	77.0	44.70	2.722	
9,875.0	9,866.4	9,869.1	9,860.8	26.7	27.3	87.59	-192.0	254.6	122.4	76.4	45.93	2.664	
9,900.0	9,890.0	9,892.8	9,884.5	26.7	27.4	91.43	-193.0	255.6	123.5	76.2	47.27	2.613	
9,925.0	9,913.2	9,916.1	9,907.7	26.6	27.5	95.52	-193.9	256.4	125.3	76.7	48.66	2.576	
9,950.0	9,935.9	9,938.9	9,930.4	26.5	27.6	99.75	-194.7	257.2	128.1	78.0	50.02	2.560	
9,975.0	9,957.9	9,961.0	9,952.6	26.4	27.7	104.00	-195.4	257.9	132.0	80.7	51.27	2.574	
10,000.0	9,979.3	9,982.6	9,974.1	26.3	27.8	108.14	-196.0	258.5	137.2	84.9	52.34	2.621	
10,025.0	10,000.0	10,003.5	9,995.0	26.3	27.9	112.06	-196.6	259.1	143.9	90.8	53.16	2.707	
10,050.0	10,020.0	10,023.6	10,015.1	26.2	28.0	115.69	-197.1	259.6	152.2	98.5	53.71	2.833	
10,075.0	10,039.1	10,043.0	10,034.5	26.1	28.0	118.95	-197.5	260.0	162.0	108.0	54.02	3.000	
10,100.0	10,057.4	10,061.5	10,053.0	26.0	28.1	121.80	-197.9	260.3	173.5	119.4	54.10	3.207	
10,125.0	10,074.8	10,079.1	10,070.6	26.0	28.2	124.23	-198.2	260.6	186.4	132.4	54.01	3.452	
10,150.0	10,091.2	10,095.8	10,087.3	25.9	28.2	126.21	-198.4	260.9	200.8	147.0	53.78	3.734	
10,175.0	10,106.5	10,111.5	10,103.0	25.9	28.3	127.75	-198.6	261.1	216.5	163.1	53.45	4.051	
10,200.0	10,120.9	10,126.2	10,117.7	25.9	28.3	128.83	-198.8	261.2	233.5	180.4	53.06	4.400	
10,225.0	10,134.1	10,139.8	10,131.3	25.8	28.3	129.44	-198.9	261.4	251.6	198.9	52.65	4.778	
10,250.0	10,146.2	10,152.3	10,143.8	25.8	28.3	129.56	-199.0	261.5	270.7	218.4	52.23	5.182	
10,275.0	10,157.1	10,163.6	10,155.1	25.8	28.4	129.13	-199.1	261.5	290.7	238.8	51.82	5.609	
10,300.0	10,166.9	10,173.8	10,165.2	25.8	28.4	128.10	-199.1	261.6	311.5	260.1	51.42	6.057	
10,325.0	10,175.4	10,182.7	10,174.1	25.8	28.4	126.37	-199.2	261.6	333.0	282.0	51.05	6.524	
10,350.0	10,182.7	10,190.3	10,181.7	25.9	28.4	123.81	-199.2	261.6	355.2	304.5	50.70	7.005	
10,375.0	10,188.7	10,196.6	10,188.1	25.9	28.4	120.25	-199.2	261.6	377.8	327.5	50.38	7.501	
10,400.0	10,193.5	10,201.6	10,193.1	25.9	28.4	115.46	-199.2	261.6	401.0	350.9	50.08	8.007	
10,425.0	10,197.0	10,205.3	10,196.8	26.0	28.4	109.18	-199.2	261.6	424.5	374.7	49.81	8.522	
10,450.0	10,199.1	10,207.6	10,199.1	26.1	28.4	101.23	-199.2	261.6	448.2	398.7	49.57	9.043	
10,475.0	10,200.0	10,208.5	10,200.0	26.2	28.4	91.61	-199.2	261.6	472.2	422.9	49.35	9.569	
10,478.9	10,200.0	10,208.5	10,200.0	26.2	28.4	90.00	-199.2	261.6	475.9	426.6	49.32	9.651	
10,488.8	10,200.0	10,208.5	10,200.0	26.2	28.4	90.00	-199.2	261.6	485.5	436.3	49.24	9.861	
10,500.0	10,200.0	10,208.5	10,200.0	26.3	28.4	90.00	-199.2	261.6	496.3	447.1	49.15	10.098	
10,600.0	10,200.0	10,208.5	10,200.0	26.7	28.4	90.00	-199.2	261.6	593.8	545.3	48.56	12.229	
10,700.0	10,200.0	10,208.5	10,200.0	27.4	28.4	90.00	-199.2	261.6	692.6	644.4	48.21	14.367	
10,800.0	10,200.0	10,208.5	10,200.0	28.2	28.4	90.00	-199.2	261.6	792.1	744.1	48.02	16.496	
10,900.0	10,200.0	10,208.5	10,200.0	29.1	28.4	90.00	-199.2	261.6	891.9	844.0	47.93	18.608	
10,918.2	10,200.0	10,208.5	10,200.0	29.2	28.4	90.00	-199.2	261.6	910.1	862.2	47.92	18.991	
11,000.0	10,200.0	10,208.5	10,200.0	29.9	28.4	90.00	-199.2	261.6	991.9	944.0	47.91	20.704	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 503H
Project:	Hat Mesa	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 503H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 503H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 503H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 603H - Anderson Fed Com 603H - Anderson Fed Com 603H - Prelim 1											Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM											Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Rule Assigned:	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
0.0	0.0	1.0	1.0	0.0	0.0	89.31	1.6	132.1	132.1			
100.0	100.0	101.0	101.0	0.5	0.5	89.31	1.6	132.1	132.1	131.0	1.08	122.170
200.0	200.0	201.0	201.0	1.7	1.7	89.31	1.6	132.1	132.1	128.6	3.44	38.446
300.0	300.0	301.0	301.0	2.4	2.4	89.31	1.6	132.1	132.1	127.2	4.83	27.333
400.0	400.0	401.0	401.0	3.0	3.0	89.31	1.6	132.1	132.1	126.1	5.92	22.326
500.0	500.0	501.0	501.0	3.4	3.4	89.31	1.6	132.1	132.1	125.2	6.84	19.317
600.0	600.0	601.0	601.0	3.8	3.8	89.31	1.6	132.1	132.1	124.4	7.65	17.253
700.0	700.0	701.0	701.0	4.2	4.2	89.31	1.6	132.1	132.1	123.7	8.40	15.723
800.0	800.0	801.0	801.0	4.5	4.5	89.31	1.6	132.1	132.1	123.0	9.09	14.530
900.0	900.0	901.0	901.0	4.9	4.9	89.31	1.6	132.1	132.1	122.3	9.73	13.566
1,000.0	1,000.0	1,001.0	1,001.0	5.2	5.2	89.31	1.6	132.1	132.1	121.7	10.35	12.765
1,100.0	1,100.0	1,101.0	1,101.0	5.5	5.5	89.31	1.6	132.1	132.1	121.1	10.93	12.086
1,200.0	1,200.0	1,201.0	1,201.0	5.7	5.7	89.31	1.6	132.1	132.1	120.6	11.48	11.500
1,300.0	1,300.0	1,301.0	1,301.0	6.0	6.0	89.31	1.6	132.1	132.1	120.0	12.02	10.988
1,400.0	1,400.0	1,401.0	1,401.0	6.3	6.3	89.31	1.6	132.1	132.1	119.5	12.54	10.535
1,500.0	1,500.0	1,501.0	1,501.0	6.5	6.5	89.31	1.6	132.1	132.1	119.0	13.04	10.131
1,600.0	1,600.0	1,601.0	1,601.0	6.8	6.8	89.31	1.6	132.1	132.1	118.5	13.52	9.768
1,700.0	1,700.0	1,701.0	1,701.0	7.0	7.0	89.31	1.6	132.1	132.1	118.1	13.99	9.438
1,800.0	1,800.0	1,801.0	1,801.0	7.2	7.2	89.31	1.6	132.1	132.1	117.6	14.45	9.137
1,900.0	1,900.0	1,901.0	1,901.0	7.5	7.5	89.31	1.6	132.1	132.1	117.2	14.90	8.862
2,000.0	2,000.0	2,001.0	2,001.0	7.7	7.7	89.31	1.6	132.1	132.1	116.7	15.34	8.608
2,100.0	2,100.0	2,101.0	2,101.0	7.9	7.9	89.31	1.6	132.1	132.1	116.3	15.77	8.373
2,200.0	2,200.0	2,201.0	2,201.0	8.1	8.1	89.31	1.6	132.1	132.1	115.9	16.20	8.154
2,300.0	2,300.0	2,301.0	2,301.0	8.3	8.3	89.31	1.6	132.1	132.1	115.5	16.61	7.950
2,400.0	2,400.0	2,401.0	2,401.0	8.5	8.5	89.31	1.6	132.1	132.1	115.0	17.02	7.760
2,500.0	2,500.0	2,501.0	2,501.0	8.7	8.7	89.31	1.6	132.1	132.1	114.6	17.42	7.581
2,600.0	2,600.0	2,601.0	2,601.0	8.9	8.9	89.31	1.6	132.1	132.1	114.2	17.82	7.413
2,700.0	2,700.0	2,701.0	2,701.0	9.1	9.1	89.31	1.6	132.1	132.1	113.9	18.20	7.254
2,800.0	2,800.0	2,801.0	2,801.0	9.3	9.3	89.31	1.6	132.1	132.1	113.5	18.59	7.105
2,900.0	2,900.0	2,901.0	2,901.0	9.5	9.5	89.31	1.6	132.1	132.1	113.1	18.97	6.963
3,000.0	3,000.0	3,001.0	3,001.0	9.7	9.7	89.31	1.6	132.1	132.1	112.7	19.34	6.828
3,100.0	3,100.0	3,101.0	3,101.0	9.9	9.9	89.31	1.6	132.1	132.1	112.4	19.71	6.700
3,200.0	3,200.0	3,201.0	3,201.0	10.0	10.0	89.31	1.6	132.1	132.1	112.0	20.08	6.578
3,300.0	3,300.0	3,301.0	3,301.0	10.2	10.2	89.31	1.6	132.1	132.1	111.6	20.44	6.461
3,400.0	3,400.0	3,401.0	3,401.0	10.4	10.4	89.31	1.6	132.1	132.1	111.3	20.80	6.350
3,500.0	3,500.0	3,501.0	3,501.0	10.6	10.6	89.31	1.6	132.1	132.1	110.9	21.15	6.244
3,600.0	3,600.0	3,601.0	3,601.0	10.7	10.8	89.31	1.6	132.1	132.1	110.6	21.50	6.142
3,700.0	3,700.0	3,701.0	3,701.0	10.9	10.9	89.31	1.6	132.1	132.1	110.2	21.85	6.044
3,800.0	3,800.0	3,801.0	3,801.0	11.1	11.1	89.31	1.6	132.1	132.1	109.9	22.19	5.951
3,900.0	3,900.0	3,901.0	3,901.0	11.3	11.3	89.31	1.6	132.1	132.1	109.5	22.53	5.860
4,000.0	4,000.0	4,001.0	4,001.0	11.4	11.4	89.31	1.6	132.1	132.1	109.2	22.87	5.774
4,100.0	4,100.0	4,101.0	4,101.0	11.6	11.6	89.31	1.6	132.1	132.1	108.9	23.21	5.690
4,200.0	4,200.0	4,201.0	4,201.0	11.8	11.8	89.31	1.6	132.1	132.1	108.5	23.54	5.610
4,300.0	4,300.0	4,301.0	4,301.0	11.9	11.9	89.31	1.6	132.1	132.1	108.2	23.87	5.532
4,400.0	4,400.0	4,401.0	4,401.0	12.1	12.1	89.31	1.6	132.1	132.1	107.9	24.20	5.457
4,500.0	4,500.0	4,501.0	4,501.0	12.3	12.3	89.31	1.6	132.1	132.1	107.5	24.53	5.384
4,600.0	4,600.0	4,601.0	4,601.0	12.4	12.4	89.31	1.6	132.1	132.1	107.2	24.85	5.314
4,700.0	4,700.0	4,701.0	4,701.0	12.6	12.6	89.31	1.6	132.1	132.1	106.9	25.17	5.246
4,800.0	4,800.0	4,801.0	4,801.0	12.7	12.7	89.31	1.6	132.1	132.1	106.6	25.49	5.180
4,900.0	4,900.0	4,901.0	4,901.0	12.9	12.9	89.31	1.6	132.1	132.1	106.3	25.81	5.117
5,000.0	5,000.0	5,001.0	5,001.0	13.1	13.1	89.31	1.6	132.1	132.1	105.9	26.13	5.055
5,100.0	5,100.0	5,101.0	5,101.0	13.2	13.2	-57.99	1.6	132.1	131.6	105.2	26.37	4.990

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 503H
Project:	Hat Mesa	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 503H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 503H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 503H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 603H - Anderson Fed Com 603H - Anderson Fed Com 603H - Prelim 1													Offset Site Error: 0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.0 usft
Reference	Offset	Rule Assigned:											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
				(usft)	(usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,200.0	5,200.0	5,201.0	5,201.0	13.2	13.4	-58.97	1.6	132.1	130.2	103.6	26.60	4.896	
5,300.0	5,299.9	5,300.9	5,300.9	13.3	13.5	-60.66	1.6	132.1	128.0	101.2	26.82	4.773	
5,311.1	5,310.9	5,311.9	5,311.9	13.3	13.5	-60.90	1.6	132.1	127.7	100.9	26.84	4.760	
5,400.0	5,399.7	5,400.7	5,400.7	13.4	13.7	-62.82	1.6	132.1	125.5	98.5	27.02	4.644	
5,500.0	5,499.6	5,500.6	5,500.6	13.5	13.8	-65.07	1.6	132.1	123.1	95.8	27.25	4.517	
5,600.0	5,599.4	5,600.4	5,600.4	13.7	14.0	-67.40	1.6	132.1	120.9	93.4	27.48	4.400	
5,700.0	5,699.3	5,700.3	5,700.3	13.8	14.1	-69.81	1.6	132.1	118.9	91.2	27.71	4.292	
5,800.0	5,799.1	5,800.0	5,800.0	14.0	14.3	-72.29	1.6	132.1	117.1	89.2	27.94	4.193	
5,900.0	5,899.0	5,898.5	5,898.5	14.2	14.4	-74.54	1.2	132.8	116.2	88.1	28.11	4.136	
5,913.0	5,911.9	5,911.3	5,911.3	14.2	14.4	-74.79	1.1	133.0	116.2	88.1	28.13	4.132 CC, ES	
6,000.0	5,998.8	5,997.0	5,997.0	14.4	14.5	-76.22	0.1	135.1	116.7	88.5	28.27	4.130	
6,100.0	6,098.7	6,095.5	6,095.4	14.6	14.6	-77.31	-1.6	139.0	118.5	90.1	28.43	4.169	
6,200.0	6,198.5	6,194.0	6,193.7	14.8	14.7	-77.78	-4.1	144.3	121.6	93.0	28.61	4.249	
6,300.0	6,298.4	6,292.5	6,291.9	15.1	14.8	-77.67	-7.4	151.2	125.8	97.0	28.81	4.368	
6,400.0	6,398.2	6,392.2	6,391.2	15.3	15.0	-77.26	-11.0	159.1	130.8	101.7	29.03	4.505	
6,500.0	6,498.1	6,492.1	6,490.7	15.6	15.2	-76.87	-14.7	167.0	135.7	106.4	29.26	4.638	
6,600.0	6,597.9	6,592.0	6,590.2	15.9	15.4	-76.52	-18.4	174.9	140.6	111.1	29.51	4.766	
6,700.0	6,697.8	6,691.8	6,689.7	16.2	15.6	-76.18	-22.1	182.8	145.6	115.8	29.77	4.891	
6,800.0	6,797.7	6,791.7	6,789.2	16.4	15.8	-75.87	-25.7	190.7	150.6	120.5	30.04	5.011	
6,900.0	6,897.5	6,891.6	6,888.7	16.8	16.0	-75.58	-29.4	198.5	155.5	125.2	30.33	5.127	
7,000.0	6,997.4	6,991.5	6,988.2	17.1	16.3	-75.31	-33.1	206.4	160.5	129.8	30.63	5.239	
7,100.0	7,097.2	7,091.3	7,087.7	17.4	16.5	-75.05	-36.8	214.3	165.4	134.5	30.95	5.346	
7,200.0	7,197.1	7,191.2	7,187.2	17.7	16.8	-74.81	-40.5	222.2	170.4	139.1	31.27	5.449	
7,300.0	7,296.9	7,291.1	7,286.7	18.0	17.1	-74.58	-44.1	230.1	175.4	143.8	31.61	5.548	
7,400.0	7,396.8	7,391.0	7,386.2	18.4	17.4	-74.37	-47.8	238.0	180.4	148.4	31.96	5.643	
7,500.0	7,496.6	7,490.8	7,485.7	18.7	17.7	-74.16	-51.5	245.9	185.3	153.0	32.33	5.733	
7,600.0	7,596.5	7,590.7	7,585.2	19.1	18.1	-73.97	-55.2	253.8	190.3	157.6	32.70	5.820	
7,700.0	7,696.3	7,690.6	7,684.7	19.4	18.4	-73.79	-58.9	261.7	195.3	162.2	33.09	5.903	
7,800.0	7,796.2	7,790.5	7,784.1	19.8	18.7	-73.61	-62.5	269.5	200.3	166.8	33.48	5.982	
7,900.0	7,896.0	7,890.3	7,883.6	20.2	19.1	-73.45	-66.2	277.4	205.3	171.4	33.89	6.058	
8,000.0	7,995.9	7,990.2	7,983.1	20.5	19.5	-73.29	-69.9	285.3	210.3	176.0	34.30	6.130	
8,100.0	8,095.7	8,090.1	8,082.6	20.9	19.8	-73.14	-73.6	293.2	215.3	180.5	34.73	6.198	
8,200.0	8,195.6	8,189.9	8,182.1	21.3	20.2	-73.00	-77.2	301.1	220.2	185.1	35.16	6.264	
8,300.0	8,295.4	8,289.8	8,281.6	21.7	20.6	-72.86	-80.9	309.0	225.2	189.6	35.60	6.326	
8,400.0	8,395.3	8,389.7	8,381.1	22.1	21.0	-72.73	-84.6	316.9	230.2	194.2	36.06	6.386	
8,500.0	8,495.1	8,489.6	8,480.6	22.5	21.4	-72.60	-88.3	324.8	235.2	198.7	36.51	6.442	
8,600.0	8,595.0	8,589.4	8,580.1	22.9	21.8	-72.48	-92.0	332.7	240.2	203.2	36.98	6.496	
8,700.0	8,694.9	8,689.3	8,679.6	23.3	22.2	-72.37	-95.6	340.5	245.2	207.8	37.46	6.547	
8,800.0	8,794.7	8,789.2	8,779.1	23.7	22.6	-72.25	-99.3	348.4	250.2	212.3	37.94	6.596	
8,900.0	8,894.6	8,889.1	8,878.6	24.1	23.1	-72.15	-103.0	356.3	255.2	216.8	38.43	6.642	
9,000.0	8,994.4	8,988.9	8,978.1	24.5	23.5	-72.04	-106.7	364.2	260.2	221.3	38.92	6.686	
9,100.0	9,094.3	9,088.8	9,077.6	24.9	23.9	-71.95	-110.4	372.1	265.2	225.8	39.42	6.728	
9,200.0	9,194.1	9,188.7	9,177.1	25.3	24.4	-71.85	-114.0	380.0	270.2	230.3	39.93	6.767	
9,300.0	9,294.0	9,288.6	9,276.6	25.7	24.8	-71.76	-117.7	387.9	275.2	234.8	40.44	6.805	
9,395.2	9,389.0	9,383.7	9,371.3	26.1	25.2	-71.68	-121.2	395.4	280.0	239.0	40.93	6.840	
9,400.0	9,393.8	9,388.4	9,376.0	26.1	25.2	-71.67	-121.4	395.8	280.2	239.3	40.95	6.842	
9,500.0	9,493.7	9,488.3	9,475.5	26.5	25.7	-71.46	-125.1	403.7	285.5	244.0	41.50	6.880	
9,600.0	9,593.7	9,588.1	9,574.9	26.9	26.1	-70.93	-128.7	411.5	291.4	249.3	42.13	6.916	
9,706.3	9,700.0	9,694.1	9,680.5	27.1	26.6	-76.92	-132.7	419.9	298.3	255.5	42.85	6.963	
9,728.9	9,722.5	9,716.5	9,702.9	27.1	26.7	-77.15	-133.5	421.7	299.9	256.9	42.99	6.976	
9,750.0	9,743.7	9,737.5	9,723.8	27.1	26.8	-69.05	-134.3	423.3	301.2	258.0	43.15	6.981	
9,775.0	9,768.6	9,750.8	9,737.0	27.0	26.9	-69.17	-134.7	424.4	302.5	259.1	43.42	6.968	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 503H
Project:	Hat Mesa	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 503H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 503H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 503H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 603H - Anderson Fed Com 603H - Anderson Fed Com 603H - Prelim 1													Offset Site Error: 0.0 usft		
Survey Program: 0-MWD+HRGM				Rule Assigned:										Offset Well Error: 0.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
9,800.0	9,793.4	9,774.4	9,760.5	27.0	27.0	69.77	-135.8	426.8	303.7	260.0	43.79	6.936			
9,825.0	9,818.0	9,790.1	9,776.1	26.9	27.1	70.30	-136.6	429.0	305.4	261.2	44.25	6.903			
9,850.0	9,842.4	9,800.0	9,785.8	26.8	27.2	70.60	-137.2	430.6	307.6	262.8	44.79	6.868			
9,875.0	9,866.4	9,820.4	9,805.8	26.7	27.4	71.65	-138.6	434.4	310.0	264.5	45.49	6.815			
9,900.0	9,890.0	9,834.8	9,819.7	26.7	27.6	72.40	-139.7	437.6	313.0	266.8	46.24	6.770			
9,925.0	9,913.2	9,850.0	9,834.4	26.6	27.8	73.30	-141.0	441.4	316.6	269.5	47.04	6.730			
9,950.0	9,935.9	9,861.9	9,845.8	26.5	28.0	73.92	-142.1	444.7	320.8	272.9	47.88	6.700			
9,975.0	9,957.9	9,874.5	9,857.7	26.4	28.1	74.62	-143.4	448.4	325.7	276.9	48.74	6.682			
10,000.0	9,979.3	9,886.4	9,868.9	26.3	28.3	75.24	-144.7	452.2	331.3	281.7	49.60	6.680			
10,025.0	10,000.0	9,900.0	9,881.7	26.3	28.4	76.03	-146.2	456.9	337.8	287.3	50.46	6.694			
10,050.0	10,020.0	9,900.0	9,881.7	26.2	28.4	75.13	-146.2	456.9	345.2	293.9	51.22	6.738			
10,075.0	10,039.1	9,917.9	9,898.1	26.1	28.6	76.34	-148.3	463.5	353.1	301.0	52.04	6.785			
10,100.0	10,057.4	9,927.0	9,906.4	26.0	28.8	76.39	-149.5	467.0	362.0	309.3	52.75	6.863			
10,125.0	10,074.8	9,935.3	9,914.0	26.0	28.9	76.26	-150.6	470.4	371.8	318.4	53.40	6.963			
10,150.0	10,091.2	9,950.0	9,927.1	25.9	29.0	76.89	-152.6	476.7	382.5	328.5	54.02	7.080			
10,175.0	10,106.5	9,950.0	9,927.1	25.9	29.0	75.42	-152.6	476.7	393.8	339.3	54.47	7.229			
10,200.0	10,120.9	9,950.0	9,927.1	25.9	29.0	73.80	-152.6	476.7	406.0	351.1	54.85	7.402			
10,225.0	10,134.1	9,961.7	9,937.4	25.8	29.2	73.75	-154.2	482.0	418.7	363.5	55.23	7.581			
10,250.0	10,146.2	9,966.6	9,941.7	25.8	29.2	72.62	-154.9	484.2	432.2	376.7	55.51	7.787			
10,275.0	10,157.1	9,970.9	9,945.4	25.8	29.3	71.30	-155.6	486.2	446.3	390.6	55.71	8.011			
10,300.0	10,166.9	9,974.4	9,948.5	25.8	29.3	69.79	-156.1	487.9	460.9	405.0	55.84	8.253			
10,325.0	10,175.4	9,977.4	9,951.0	25.8	29.3	68.10	-156.6	489.4	476.0	420.0	55.92	8.511			
10,350.0	10,182.7	9,979.7	9,953.0	25.9	29.4	66.26	-156.9	490.5	491.4	435.5	55.95	8.784			
10,375.0	10,188.7	9,981.4	9,954.5	25.9	29.4	64.28	-157.2	491.3	507.3	451.4	55.93	9.071			
10,400.0	10,193.5	9,982.5	9,955.4	25.9	29.4	62.18	-157.3	491.8	523.4	467.5	55.86	9.370			
10,425.0	10,197.0	9,983.0	9,955.8	26.0	29.4	59.98	-157.4	492.1	539.7	484.0	55.76	9.680			
10,450.0	10,199.1	9,982.8	9,955.7	26.1	29.4	57.71	-157.4	492.0	556.2	500.6	55.63	10.000			
10,475.0	10,200.0	9,982.2	9,955.1	26.2	29.4	55.39	-157.3	491.7	572.8	517.4	55.46	10.328			
10,478.9	10,200.0	9,982.0	9,955.0	26.2	29.4	55.03	-157.3	491.6	575.4	520.0	55.43	10.380			
10,488.8	10,200.0	9,981.6	9,954.6	26.2	29.4	54.97	-157.2	491.4	582.1	526.7	55.36	10.514			
10,500.0	10,200.0	9,981.1	9,954.2	26.3	29.4	54.79	-157.1	491.2	589.7	534.4	55.28	10.668			
10,600.0	10,200.0	9,976.3	9,950.1	26.7	29.3	52.86	-156.4	488.8	663.4	608.9	54.52	12.168			
10,700.0	10,200.0	9,970.8	9,945.4	27.4	29.3	50.36	-155.6	486.2	744.7	690.9	53.81	13.839			
10,800.0	10,200.0	9,964.7	9,940.0	28.2	29.2	47.19	-154.7	483.3	831.3	778.1	53.19	15.628			
10,900.0	10,200.0	9,950.0	9,927.1	29.1	29.0	42.10	-152.6	476.7	921.7	869.1	52.65	17.507			
10,918.2	10,200.0	9,950.0	9,927.1	29.2	29.0	41.47	-152.6	476.7	938.5	885.9	52.57	17.850			
11,000.0	10,200.0	11,635.5	10,475.0	29.9	43.2	106.50	797.6	1,154.1	964.7	903.5	61.17	15.771			
11,100.0	10,200.0	11,735.5	10,475.0	30.9	44.0	106.50	897.6	1,153.5	964.6	901.6	63.07	15.296			
11,200.0	10,200.0	11,835.5	10,475.0	32.0	44.9	106.50	997.6	1,152.9	964.6	899.5	65.15	14.807			
11,300.0	10,200.0	11,935.5	10,475.0	33.2	45.8	106.50	1,097.6	1,152.3	964.6	897.2	67.39	14.315			
11,400.0	10,200.0	12,035.5	10,475.0	34.5	46.8	106.50	1,197.6	1,151.7	964.6	894.8	69.77	13.825			
11,500.0	10,200.0	12,135.5	10,475.0	35.9	47.8	106.50	1,297.6	1,151.1	964.6	892.3	72.29	13.344			
11,600.0	10,200.0	12,235.5	10,475.0	37.4	48.9	106.50	1,397.6	1,150.5	964.6	889.7	74.92	12.875			
11,700.0	10,200.0	12,335.5	10,475.0	38.9	50.0	106.50	1,497.6	1,150.0	964.6	886.9	77.66	12.421			
11,800.0	10,200.0	12,435.5	10,475.0	40.5	51.2	106.50	1,597.6	1,149.4	964.6	884.1	80.49	11.984			
11,900.0	10,200.0	12,535.5	10,475.0	42.1	52.4	106.50	1,697.6	1,148.8	964.6	881.2	83.41	11.565			
12,000.0	10,200.0	12,635.5	10,475.0	43.7	53.7	106.50	1,797.6	1,148.2	964.5	878.1	86.40	11.164			
12,100.0	10,200.0	12,735.5	10,475.0	45.4	55.0	106.50	1,897.6	1,147.6	964.5	875.1	89.47	10.781			
12,200.0	10,200.0	12,835.5	10,475.0	47.1	56.4	106.50	1,997.6	1,147.0	964.5	871.9	92.59	10.417			
12,300.0	10,200.0	12,935.5	10,475.0	48.9	57.8	106.50	2,097.6	1,146.4	964.5	868.7	95.78	10.071			
12,400.0	10,200.0	13,035.5	10,475.0	50.7	59.2	106.50	2,197.6	1,145.8	964.5	865.5	99.01	9.741			
12,500.0	10,200.0	13,135.5	10,475.0	52.4	60.7	106.50	2,297.6	1,145.2	964.5	862.2	102.29	9.429			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 503H
Project:	Hat Mesa	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 503H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 503H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 503H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 603H - Anderson Fed Com 603H - Anderson Fed Com 603H - Prelim 1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM									Rule Assigned:				Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
12,600.0	10,200.0	13,235.5	10,475.0	54.3	62.2	106.50	2,397.6	1,144.6	964.5	858.9	105.62	9.132		
12,700.0	10,200.0	13,335.5	10,475.0	56.1	63.7	106.50	2,497.6	1,144.0	964.5	855.5	108.98	8.850		
12,800.0	10,200.0	13,435.5	10,475.0	57.9	65.3	106.50	2,597.6	1,143.5	964.5	852.1	112.37	8.583		
12,900.0	10,200.0	13,535.5	10,475.0	59.8	66.9	106.51	2,697.6	1,142.9	964.4	848.6	115.80	8.328		
13,000.0	10,200.0	13,635.5	10,475.0	61.6	68.5	106.51	2,797.5	1,142.3	964.4	845.2	119.26	8.087		
13,100.0	10,200.0	13,735.5	10,475.0	63.5	70.1	106.51	2,897.5	1,141.7	964.4	841.7	122.75	7.857		
13,200.0	10,200.0	13,835.5	10,475.0	65.4	71.8	106.51	2,997.5	1,141.1	964.4	838.2	126.26	7.638		
13,300.0	10,200.0	13,935.5	10,475.0	67.3	73.5	106.51	3,097.5	1,140.5	964.4	834.6	129.79	7.430		
13,400.0	10,200.0	14,035.5	10,475.0	69.1	75.1	106.51	3,197.5	1,139.9	964.4	831.0	133.35	7.232		
13,500.0	10,200.0	14,135.5	10,475.0	71.1	76.9	106.51	3,297.5	1,139.3	964.4	827.5	136.92	7.043		
13,600.0	10,200.0	14,235.5	10,475.0	73.0	78.6	106.51	3,397.5	1,138.7	964.4	823.9	140.51	6.863		
13,700.0	10,200.0	14,335.5	10,475.0	74.9	80.3	106.51	3,497.5	1,138.1	964.4	820.2	144.12	6.691		
13,800.0	10,200.0	14,435.5	10,475.0	76.8	82.1	106.51	3,597.5	1,137.6	964.3	816.6	147.74	6.527		
13,900.0	10,200.0	14,535.5	10,475.0	78.7	83.8	106.51	3,697.5	1,137.0	964.3	813.0	151.38	6.370		
14,000.0	10,200.0	14,635.5	10,475.0	80.7	85.6	106.51	3,797.5	1,136.4	964.3	809.3	155.03	6.220		
14,100.0	10,200.0	14,735.5	10,475.0	82.6	87.4	106.51	3,897.5	1,135.8	964.3	805.6	158.70	6.076		
14,200.0	10,200.0	14,835.5	10,475.0	84.5	89.2	106.51	3,997.5	1,135.2	964.3	801.9	162.37	5.939		
14,300.0	10,200.0	14,935.5	10,475.0	86.5	91.0	106.51	4,097.5	1,134.6	964.3	798.2	166.06	5.807		
14,400.0	10,200.0	15,035.5	10,475.0	88.4	92.8	106.51	4,197.5	1,134.0	964.3	794.5	169.75	5.680		
14,500.0	10,200.0	15,135.5	10,475.0	90.4	94.6	106.51	4,297.5	1,133.4	964.3	790.8	173.46	5.559		
14,600.0	10,200.0	15,235.5	10,475.0	92.3	96.5	106.51	4,397.5	1,132.8	964.3	787.1	177.17	5.442		
14,700.0	10,200.0	15,335.5	10,475.0	94.3	98.3	106.51	4,497.5	1,132.2	964.2	783.4	180.90	5.330		
14,800.0	10,200.0	15,435.5	10,475.0	96.2	100.2	106.51	4,597.5	1,131.7	964.2	779.6	184.63	5.223		
14,900.0	10,200.0	15,535.5	10,475.0	98.2	102.0	106.51	4,697.5	1,131.1	964.2	775.9	188.37	5.119		
15,000.0	10,200.0	15,635.5	10,475.0	100.1	103.9	106.51	4,797.5	1,130.5	964.2	772.1	192.11	5.019		
15,100.0	10,200.0	15,735.5	10,475.0	102.1	105.7	106.51	4,897.5	1,129.9	964.2	768.3	195.86	4.923		
15,200.0	10,200.0	15,835.5	10,475.0	104.1	107.6	106.51	4,997.5	1,129.3	964.2	764.6	199.62	4.830		
15,300.0	10,200.0	15,935.5	10,475.0	106.0	109.5	106.51	5,097.5	1,128.7	964.2	760.8	203.38	4.741		
15,400.0	10,200.0	16,035.5	10,475.0	108.0	111.4	106.51	5,197.5	1,128.1	964.2	757.0	207.15	4.654		
15,500.0	10,200.0	16,135.5	10,475.0	110.0	113.3	106.51	5,297.5	1,127.5	964.2	753.2	210.93	4.571		
15,600.0	10,200.0	16,235.5	10,475.0	112.0	115.2	106.51	5,397.5	1,126.9	964.2	749.4	214.71	4.491		
15,700.0	10,200.0	16,335.5	10,475.0	113.9	117.1	106.51	5,497.5	1,126.3	964.1	745.6	218.49	4.413		
15,800.0	10,200.0	16,435.5	10,475.0	115.9	119.0	106.51	5,597.5	1,125.7	964.1	741.9	222.28	4.337		
15,900.0	10,200.0	16,535.5	10,475.0	117.9	120.9	106.51	5,697.5	1,125.2	964.1	738.0	226.07	4.265		
16,000.0	10,200.0	16,635.5	10,475.0	119.9	122.8	106.51	5,797.5	1,124.6	964.1	734.2	229.87	4.194		
16,100.0	10,200.0	16,735.5	10,475.0	121.8	124.7	106.51	5,897.5	1,124.0	964.1	730.4	233.67	4.126		
16,200.0	10,200.0	16,835.5	10,475.0	123.8	126.6	106.51	5,997.5	1,123.4	964.1	726.6	237.47	4.060		
16,300.0	10,200.0	16,935.5	10,475.0	125.8	128.5	106.51	6,097.5	1,122.8	964.1	722.8	241.28	3.996		
16,400.0	10,200.0	17,035.5	10,475.0	127.8	130.4	106.51	6,197.5	1,122.2	964.1	719.0	245.09	3.933		
16,500.0	10,200.0	17,135.5	10,475.0	129.8	132.4	106.51	6,297.5	1,121.6	964.1	715.1	248.90	3.873		
16,600.0	10,200.0	17,235.5	10,475.0	131.8	134.3	106.51	6,397.5	1,121.0	964.0	711.3	252.72	3.815		
16,700.0	10,200.0	17,335.5	10,475.0	133.8	136.2	106.51	6,497.5	1,120.4	964.0	707.5	256.54	3.758		
16,800.0	10,200.0	17,435.5	10,475.0	135.7	138.2	106.51	6,597.5	1,119.8	964.0	703.7	260.36	3.703		
16,893.7	10,200.0	17,529.2	10,475.0	137.6	140.0	106.51	6,691.2	1,119.3	964.0	700.1	263.95	3.652 SF		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 503H
Project:	Hat Mesa	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 503H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 503H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 503H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 703H - Anderson Fed Com 703H - Anderson Fed Com 703H - Prelim 1											Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM											Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
0.0	0.0	0.0	0.0	0.0	0.0	89.42	1.0	99.7	99.7			
100.0	100.0	100.0	100.0	0.5	0.5	89.42	1.0	99.7	99.7	98.6	1.07	93.215
200.0	200.0	200.0	200.0	1.7	1.7	89.42	1.0	99.7	99.7	96.2	3.43	29.073
300.0	300.0	300.0	300.0	2.4	2.4	89.42	1.0	99.7	99.7	94.8	4.83	20.651
400.0	400.0	400.0	400.0	3.0	3.0	89.42	1.0	99.7	99.7	93.8	5.91	16.862
500.0	500.0	500.0	500.0	3.4	3.4	89.42	1.0	99.7	99.7	92.8	6.83	14.587
600.0	600.0	600.0	600.0	3.8	3.8	89.42	1.0	99.7	99.7	92.0	7.65	13.027
700.0	700.0	700.0	700.0	4.2	4.2	89.42	1.0	99.7	99.7	91.3	8.40	11.871
800.0	800.0	800.0	800.0	4.5	4.5	89.42	1.0	99.7	99.7	90.6	9.09	10.970
900.0	900.0	900.0	900.0	4.9	4.9	89.42	1.0	99.7	99.7	89.9	9.73	10.241
1,000.0	1,000.0	1,000.0	1,000.0	5.2	5.2	89.42	1.0	99.7	99.7	89.3	10.34	9.636
1,100.0	1,100.0	1,100.0	1,100.0	5.5	5.5	89.42	1.0	99.7	99.7	88.7	10.92	9.123
1,200.0	1,200.0	1,200.0	1,200.0	5.7	5.7	89.42	1.0	99.7	99.7	88.2	11.48	8.681
1,300.0	1,300.0	1,300.0	1,300.0	6.0	6.0	89.42	1.0	99.7	99.7	87.6	12.02	8.294
1,400.0	1,400.0	1,400.0	1,400.0	6.3	6.3	89.42	1.0	99.7	99.7	87.1	12.53	7.952
1,500.0	1,500.0	1,500.0	1,500.0	6.5	6.5	89.42	1.0	99.7	99.7	86.6	13.03	7.647
1,600.0	1,600.0	1,600.0	1,600.0	6.8	6.8	89.42	1.0	99.7	99.7	86.1	13.52	7.373
1,700.0	1,700.0	1,700.0	1,700.0	7.0	7.0	89.42	1.0	99.7	99.7	85.7	13.99	7.124
1,800.0	1,800.0	1,800.0	1,800.0	7.2	7.2	89.42	1.0	99.7	99.7	85.2	14.45	6.897
1,900.0	1,900.0	1,900.0	1,900.0	7.5	7.5	89.42	1.0	99.7	99.7	84.8	14.90	6.689
2,000.0	2,000.0	2,000.0	2,000.0	7.7	7.7	89.42	1.0	99.7	99.7	84.3	15.34	6.497
2,100.0	2,100.0	2,100.0	2,100.0	7.9	7.9	89.42	1.0	99.7	99.7	83.9	15.77	6.319
2,200.0	2,200.0	2,200.0	2,200.0	8.1	8.1	89.42	1.0	99.7	99.7	83.5	16.19	6.154
2,300.0	2,300.0	2,300.0	2,300.0	8.3	8.3	89.42	1.0	99.7	99.7	83.1	16.61	6.001
2,400.0	2,400.0	2,400.0	2,400.0	8.5	8.5	89.42	1.0	99.7	99.7	82.6	17.02	5.857
2,500.0	2,500.0	2,500.0	2,500.0	8.7	8.7	89.42	1.0	99.7	99.7	82.2	17.42	5.722
2,600.0	2,600.0	2,600.0	2,600.0	8.9	8.9	89.42	1.0	99.7	99.7	81.9	17.81	5.595
2,700.0	2,700.0	2,700.0	2,700.0	9.1	9.1	89.42	1.0	99.7	99.7	81.5	18.20	5.475
2,800.0	2,800.0	2,800.0	2,800.0	9.3	9.3	89.42	1.0	99.7	99.7	81.1	18.59	5.362
2,900.0	2,900.0	2,900.0	2,900.0	9.5	9.5	89.42	1.0	99.7	99.7	80.7	18.97	5.255
3,000.0	3,000.0	3,000.0	3,000.0	9.7	9.7	89.42	1.0	99.7	99.7	80.3	19.34	5.153
3,100.0	3,100.0	3,100.0	3,100.0	9.9	9.9	89.42	1.0	99.7	99.7	80.0	19.71	5.057
3,200.0	3,200.0	3,200.0	3,200.0	10.0	10.0	89.42	1.0	99.7	99.7	79.6	20.08	4.964
3,300.0	3,300.0	3,300.0	3,300.0	10.2	10.2	89.42	1.0	99.7	99.7	79.2	20.44	4.877
3,400.0	3,400.0	3,400.0	3,400.0	10.4	10.4	89.42	1.0	99.7	99.7	78.9	20.79	4.793
3,500.0	3,500.0	3,500.0	3,500.0	10.6	10.6	89.42	1.0	99.7	99.7	78.5	21.15	4.712
3,600.0	3,600.0	3,600.0	3,600.0	10.7	10.7	89.42	1.0	99.7	99.7	78.2	21.50	4.636
3,700.0	3,700.0	3,700.0	3,700.0	10.9	10.9	89.42	1.0	99.7	99.7	77.8	21.85	4.562
3,800.0	3,800.0	3,800.0	3,800.0	11.1	11.1	89.42	1.0	99.7	99.7	77.5	22.19	4.491
3,900.0	3,900.0	3,900.0	3,900.0	11.3	11.3	89.42	1.0	99.7	99.7	77.1	22.53	4.423
4,000.0	4,000.0	4,000.0	4,000.0	11.4	11.4	89.42	1.0	99.7	99.7	76.8	22.87	4.358
4,100.0	4,100.0	4,100.0	4,100.0	11.6	11.6	89.42	1.0	99.7	99.7	76.5	23.21	4.294
4,200.0	4,200.0	4,200.0	4,200.0	11.8	11.8	89.42	1.0	99.7	99.7	76.1	23.54	4.234
4,300.0	4,300.0	4,300.0	4,300.0	11.9	11.9	89.42	1.0	99.7	99.7	75.8	23.87	4.175
4,400.0	4,400.0	4,400.0	4,400.0	12.1	12.1	89.42	1.0	99.7	99.7	75.5	24.20	4.118
4,500.0	4,500.0	4,500.0	4,500.0	12.3	12.3	89.42	1.0	99.7	99.7	75.1	24.53	4.064
4,600.0	4,600.0	4,600.0	4,600.0	12.4	12.4	89.42	1.0	99.7	99.7	74.8	24.85	4.011
4,700.0	4,700.0	4,700.0	4,700.0	12.6	12.6	89.42	1.0	99.7	99.7	74.5	25.17	3.959
4,800.0	4,800.0	4,800.0	4,800.0	12.7	12.7	89.42	1.0	99.7	99.7	74.2	25.49	3.910
4,900.0	4,900.0	4,900.0	4,900.0	12.9	12.9	89.42	1.0	99.7	99.7	73.9	25.81	3.862
5,000.0	5,000.0	5,000.0	5,000.0	13.1	13.1	89.42	1.0	99.7	99.7	73.5	26.13	3.815
5,100.0	5,100.0	5,100.0	5,100.0	13.2	13.2	-57.98	1.0	99.7	99.2	72.8	26.37	3.762

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 503H
Project:	Hat Mesa	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 503H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 503H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 503H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 703H - Anderson Fed Com 703H - Anderson Fed Com 703H - Prelim 1													Offset Site Error: 0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.0 usft
Reference	Offset	Rule Assigned:											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre		Distance				Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.0	5,200.0	5,200.0	5,200.0	13.2	13.4	-59.30	1.0	99.7	97.8	71.2	26.60	3.679	
5,300.0	5,299.9	5,299.9	5,299.9	13.3	13.5	-61.56	1.0	99.7	95.7	68.9	26.82	3.567	
5,311.1	5,310.9	5,310.9	5,310.9	13.3	13.5	-61.87	1.0	99.7	95.4	68.6	26.84	3.555	
5,400.0	5,399.7	5,399.7	5,399.7	13.4	13.7	-64.49	1.0	99.7	93.2	66.2	27.01	3.451	
5,500.0	5,499.6	5,499.6	5,499.6	13.5	13.8	-67.57	1.0	99.7	91.0	63.8	27.24	3.341	
5,600.0	5,599.4	5,599.4	5,599.4	13.7	14.0	-70.79	1.0	99.7	89.1	61.6	27.47	3.243	
5,700.0	5,699.3	5,698.5	5,698.5	13.8	14.1	-73.65	0.5	100.3	87.9	60.3	27.63	3.181	
5,756.5	5,755.7	5,754.4	5,754.4	13.9	14.1	-74.88	-0.3	101.2	87.7	60.0	27.71	3.166 CC, ES	
5,800.0	5,799.1	5,797.6	5,797.6	14.0	14.2	-75.62	-1.2	102.3	87.8	60.1	27.78	3.162	
5,900.0	5,899.0	5,896.8	5,896.7	14.2	14.3	-76.62	-4.0	105.5	88.7	60.8	27.93	3.176	
6,000.0	5,998.8	5,996.6	5,996.3	14.4	14.3	-76.93	-7.6	109.7	90.2	62.2	28.05	3.216	
6,100.0	6,098.7	6,096.6	6,096.2	14.6	14.4	-77.21	-11.2	114.0	91.8	63.5	28.21	3.252	
6,200.0	6,198.5	6,196.6	6,196.0	14.8	14.6	-77.48	-14.8	118.2	93.3	64.9	28.39	3.286	
6,300.0	6,298.4	6,296.6	6,295.8	15.1	14.7	-77.74	-18.4	122.4	94.8	66.2	28.57	3.318	
6,400.0	6,398.2	6,396.6	6,395.7	15.3	14.9	-77.99	-22.0	126.7	96.4	67.6	28.76	3.350	
6,500.0	6,498.1	6,496.6	6,495.5	15.6	15.1	-78.23	-25.6	130.9	97.9	68.9	28.95	3.381	
6,600.0	6,597.9	6,596.6	6,595.3	15.9	15.3	-78.47	-29.2	135.2	99.4	70.3	29.15	3.411	
6,700.0	6,697.8	6,696.5	6,695.2	16.2	15.5	-78.70	-32.8	139.4	101.0	71.6	29.35	3.440	
6,800.0	6,797.7	6,796.5	6,795.0	16.4	15.7	-78.92	-36.4	143.6	102.5	73.0	29.56	3.468	
6,900.0	6,897.5	6,896.5	6,894.8	16.8	15.9	-79.13	-40.0	147.9	104.1	74.3	29.77	3.495	
7,000.0	6,997.4	6,996.5	6,994.7	17.1	16.2	-79.34	-43.7	152.1	105.6	75.6	29.98	3.522	
7,100.0	7,097.2	7,096.5	7,094.5	17.4	16.5	-79.55	-47.3	156.4	107.1	76.9	30.20	3.548	
7,200.0	7,197.1	7,196.5	7,194.3	17.7	16.7	-79.74	-50.9	160.6	108.7	78.3	30.43	3.572	
7,300.0	7,296.9	7,296.5	7,294.2	18.0	17.0	-79.93	-54.5	164.9	110.2	79.6	30.65	3.597	
7,400.0	7,396.8	7,396.5	7,394.0	18.4	17.3	-80.12	-58.1	169.1	111.8	80.9	30.88	3.620	
7,500.0	7,496.6	7,496.4	7,493.8	18.7	17.6	-80.30	-61.7	173.3	113.3	82.2	31.11	3.643	
7,600.0	7,596.5	7,596.4	7,593.7	19.1	17.9	-80.48	-65.3	177.6	114.9	83.5	31.35	3.665	
7,700.0	7,696.3	7,696.4	7,693.5	19.4	18.2	-80.65	-68.9	181.8	116.5	84.9	31.59	3.686	
7,800.0	7,796.2	7,796.4	7,793.3	19.8	18.5	-80.82	-72.5	186.1	118.0	86.2	31.83	3.707	
7,900.0	7,896.0	7,896.4	7,893.2	20.2	18.8	-80.98	-76.1	190.3	119.6	87.5	32.08	3.727	
8,000.0	7,995.9	7,996.4	7,993.0	20.5	19.2	-81.14	-79.8	194.6	121.1	88.8	32.32	3.747	
8,100.0	8,095.7	8,096.4	8,092.8	20.9	19.5	-81.29	-83.4	198.8	122.7	90.1	32.57	3.766	
8,200.0	8,195.6	8,196.4	8,192.7	21.3	19.8	-81.44	-87.0	203.0	124.2	91.4	32.83	3.785	
8,300.0	8,295.4	8,296.3	8,292.5	21.7	20.2	-81.59	-90.6	207.3	125.8	92.7	33.08	3.802	
8,400.0	8,395.3	8,396.3	8,392.3	22.1	20.5	-81.73	-94.2	211.5	127.4	94.0	33.34	3.820	
8,500.0	8,495.1	8,496.3	8,492.1	22.5	20.9	-81.87	-97.8	215.8	128.9	95.3	33.60	3.837	
8,600.0	8,595.0	8,596.3	8,592.0	22.9	21.3	-82.01	-101.4	220.0	130.5	96.6	33.86	3.853	
8,700.0	8,694.9	8,696.3	8,691.8	23.3	21.6	-82.14	-105.0	224.2	132.0	97.9	34.12	3.869	
8,800.0	8,794.7	8,796.3	8,791.6	23.7	22.0	-82.27	-108.6	228.5	133.6	99.2	34.39	3.885	
8,900.0	8,894.6	8,896.3	8,891.5	24.1	22.4	-82.40	-112.2	232.7	135.2	100.5	34.66	3.900	
9,000.0	8,994.4	8,996.3	8,991.3	24.5	22.8	-82.53	-115.9	237.0	136.7	101.8	34.93	3.915	
9,100.0	9,094.3	9,096.2	9,091.1	24.9	23.2	-82.65	-119.5	241.2	138.3	103.1	35.20	3.929	
9,200.0	9,194.1	9,196.2	9,191.0	25.3	23.6	-82.77	-123.1	245.5	139.9	104.4	35.47	3.943	
9,300.0	9,294.0	9,296.2	9,290.8	25.7	24.0	-82.88	-126.7	249.7	141.4	105.7	35.74	3.956	
9,395.2	9,389.0	9,391.4	9,385.9	26.1	24.3	-82.99	-130.1	253.7	142.9	106.9	36.00	3.969	
9,400.0	9,393.8	9,396.2	9,390.6	26.1	24.4	-82.99	-130.3	253.9	143.0	107.0	36.01	3.971	
9,500.0	9,493.7	9,496.2	9,490.5	26.5	24.8	-82.75	-133.9	258.2	144.7	108.3	36.33	3.982	
9,600.0	9,593.7	9,596.1	9,590.3	26.9	25.2	-81.83	-137.5	262.4	146.6	109.8	36.76	3.988	
9,706.3	9,700.0	9,702.3	9,696.3	27.1	25.6	66.81	-141.4	266.9	149.0	111.7	37.35	3.989	
9,728.9	9,722.5	9,724.8	9,718.8	27.1	25.7	67.24	-142.2	267.9	149.6	112.1	37.49	3.990	
9,750.0	9,743.7	9,745.9	9,739.8	27.1	25.8	59.51	-142.9	268.8	149.9	112.2	37.65	3.981	
9,775.0	9,768.6	9,770.8	9,764.6	27.0	25.9	60.58	-143.8	269.8	149.6	111.7	37.94	3.944	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 503H
Project:	Hat Mesa	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 503H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 503H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 503H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 703H - Anderson Fed Com 703H - Anderson Fed Com 703H - Prelim 1													Offset Site Error: 0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,800.0	9,793.4	9,795.5	9,789.3	27.0	26.0	62.14	-144.7	270.9	148.8	110.5	38.34	3.882	
9,825.0	9,818.0	9,819.9	9,813.7	26.9	26.1	64.19	-145.6	271.9	147.6	108.7	38.88	3.796	
9,850.0	9,842.4	9,844.0	9,837.8	26.8	26.2	66.74	-146.5	272.9	146.0	106.4	39.56	3.690	
9,875.0	9,866.4	9,867.8	9,861.5	26.7	26.3	69.76	-147.3	274.0	144.2	103.7	40.42	3.566	
9,900.0	9,890.0	9,891.2	9,884.8	26.7	26.4	73.25	-148.2	274.9	142.4	100.9	41.48	3.432	
9,925.0	9,913.2	9,914.0	9,907.7	26.6	26.5	77.15	-149.0	275.9	140.8	98.1	42.73	3.295	
9,950.0	9,935.9	9,936.3	9,929.9	26.5	26.6	81.37	-149.8	276.9	139.8	95.6	44.16	3.165	
9,968.6	9,952.4	9,952.6	9,946.1	26.4	26.6	84.68	-150.4	277.5	139.5	94.2	45.31	3.079	
9,975.0	9,957.9	9,958.0	9,951.6	26.4	26.7	85.83	-150.6	277.8	139.5	93.8	45.72	3.052	
10,000.0	9,979.3	9,979.0	9,972.6	26.3	26.7	90.38	-151.3	278.7	140.4	93.1	47.33	2.967	
10,025.0	10,000.0	9,999.3	9,992.8	26.3	26.8	94.89	-152.1	279.5	142.7	93.8	48.88	2.919	
10,050.0	10,020.0	10,018.8	10,012.2	26.2	26.9	99.22	-152.8	280.4	146.6	96.4	50.27	2.917 SF	
10,075.0	10,039.1	10,037.4	10,030.8	26.1	27.0	103.25	-153.4	281.1	152.4	101.0	51.41	2.964	
10,100.0	10,057.4	10,055.1	10,048.5	26.0	27.1	106.87	-154.1	281.9	160.1	107.8	52.25	3.063	
10,125.0	10,074.8	10,071.9	10,065.3	26.0	27.1	110.03	-154.7	282.6	169.7	116.9	52.78	3.214	
10,150.0	10,091.2	10,087.7	10,081.1	25.9	27.2	112.68	-155.3	283.3	181.1	128.1	53.03	3.415	
10,175.0	10,106.5	10,102.5	10,095.8	25.9	27.3	114.78	-155.8	283.9	194.3	141.3	53.06	3.663	
10,200.0	10,120.9	10,116.2	10,109.5	25.9	27.3	116.33	-156.3	284.5	209.2	156.2	52.92	3.953	
10,225.0	10,134.1	10,128.8	10,122.1	25.8	27.4	117.31	-156.7	285.0	225.4	172.8	52.66	4.281	
10,250.0	10,146.2	10,140.2	10,133.5	25.8	27.4	117.69	-157.2	285.5	243.0	190.7	52.33	4.644	
10,275.0	10,157.1	10,150.5	10,143.7	25.8	27.5	117.44	-157.5	285.9	261.7	209.8	51.96	5.038	
10,300.0	10,166.9	10,159.5	10,152.8	25.8	27.5	116.52	-157.9	286.3	281.5	229.9	51.57	5.458	
10,325.0	10,175.4	10,167.4	10,160.6	25.8	27.5	114.85	-158.1	286.7	302.1	250.9	51.18	5.902	
10,350.0	10,182.7	10,173.9	10,167.2	25.9	27.6	112.34	-158.4	286.9	323.4	272.6	50.81	6.365	
10,375.0	10,188.7	10,179.2	10,172.5	25.9	27.6	108.89	-158.6	287.2	345.4	294.9	50.45	6.845	
10,400.0	10,193.5	10,183.3	10,176.5	25.9	27.6	104.37	-158.7	287.3	367.8	317.7	50.11	7.340	
10,425.0	10,197.0	10,186.0	10,179.2	26.0	27.6	98.68	-158.8	287.4	390.7	340.9	49.80	7.845	
10,450.0	10,199.1	10,187.4	10,180.6	26.1	27.6	91.83	-158.9	287.5	413.9	364.4	49.51	8.359	
10,475.0	10,200.0	10,187.5	10,180.7	26.2	27.6	83.93	-158.9	287.5	437.3	388.0	49.25	8.879	
10,478.9	10,200.0	10,187.4	10,180.6	26.2	27.6	82.64	-158.9	287.5	440.9	391.7	49.21	8.960	
10,488.8	10,200.0	10,187.1	10,180.3	26.2	27.6	82.53	-158.9	287.5	450.2	401.1	49.11	9.168	
10,500.0	10,200.0	10,186.8	10,180.0	26.3	27.6	82.32	-158.8	287.5	460.8	411.8	49.00	9.404	
10,600.0	10,200.0	10,183.7	10,176.9	26.7	27.6	80.02	-158.7	287.4	556.8	508.5	48.27	11.535	
10,700.0	10,200.0	10,180.5	10,173.7	27.4	27.6	76.59	-158.6	287.2	654.6	606.8	47.82	13.688	
10,800.0	10,200.0	10,177.1	10,170.3	28.2	27.6	70.93	-158.5	287.1	753.6	706.0	47.56	15.843	
10,900.0	10,200.0	10,173.6	10,166.8	29.1	27.6	60.10	-158.4	286.9	853.1	805.6	47.43	17.984	
10,918.2	10,200.0	10,172.9	10,166.2	29.2	27.6	57.05	-158.3	286.9	871.3	823.8	47.42	18.372	
11,000.0	10,200.0	10,170.0	10,163.2	29.9	27.5	54.75	-158.2	286.8	952.8	905.4	47.38	20.110	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 503H
Project:	Hat Mesa	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 503H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 503H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 503H - Prelim 1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 3698.0usft (Original Well Ele

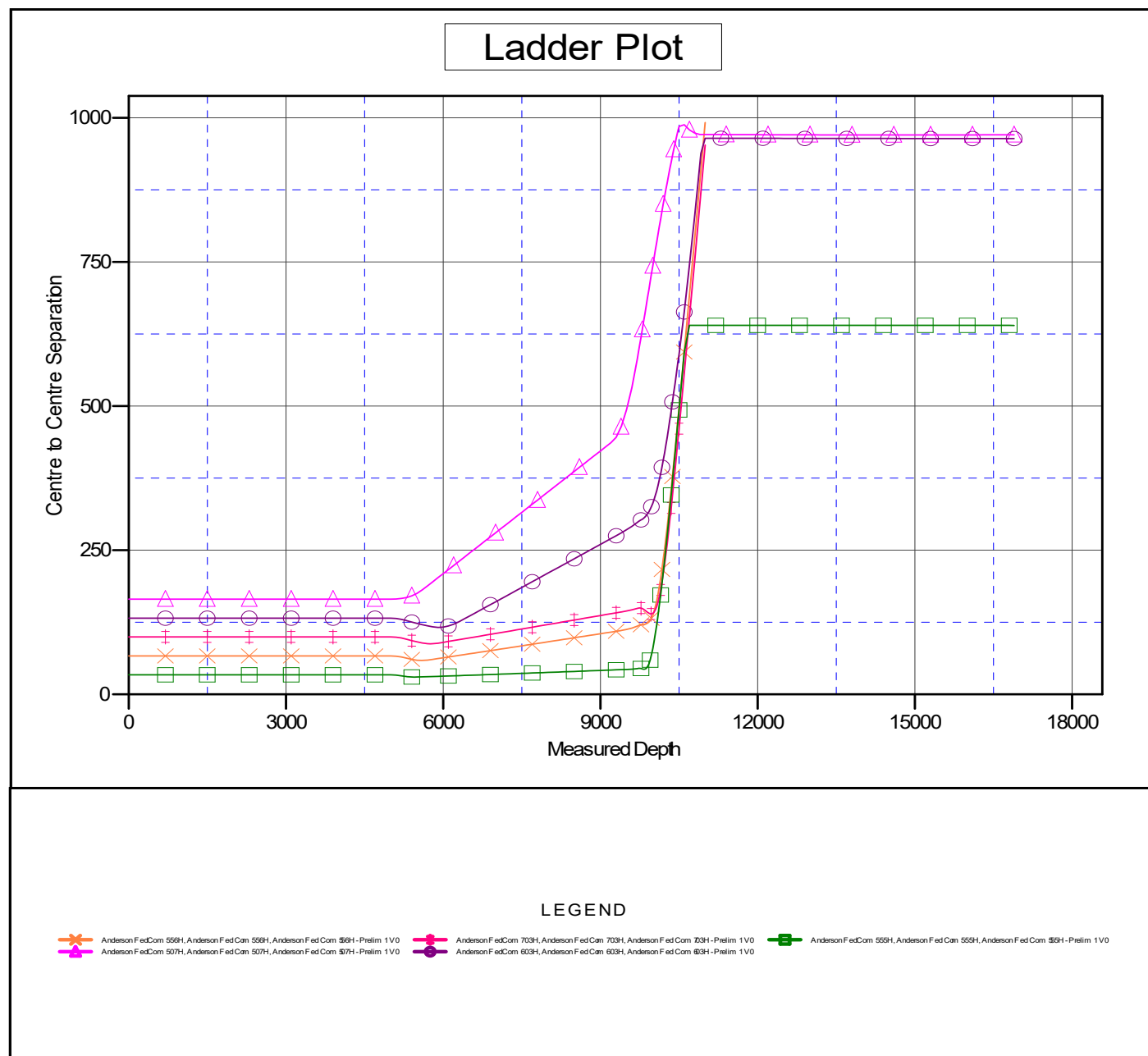
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Anderson Fed Com 503H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.37°



CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 503H
Project:	Hat Mesa	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 503H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 503H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 503H - Prelim 1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 3698.0usft (Original Well Ele

Offset Depths are relative to Offset Datum

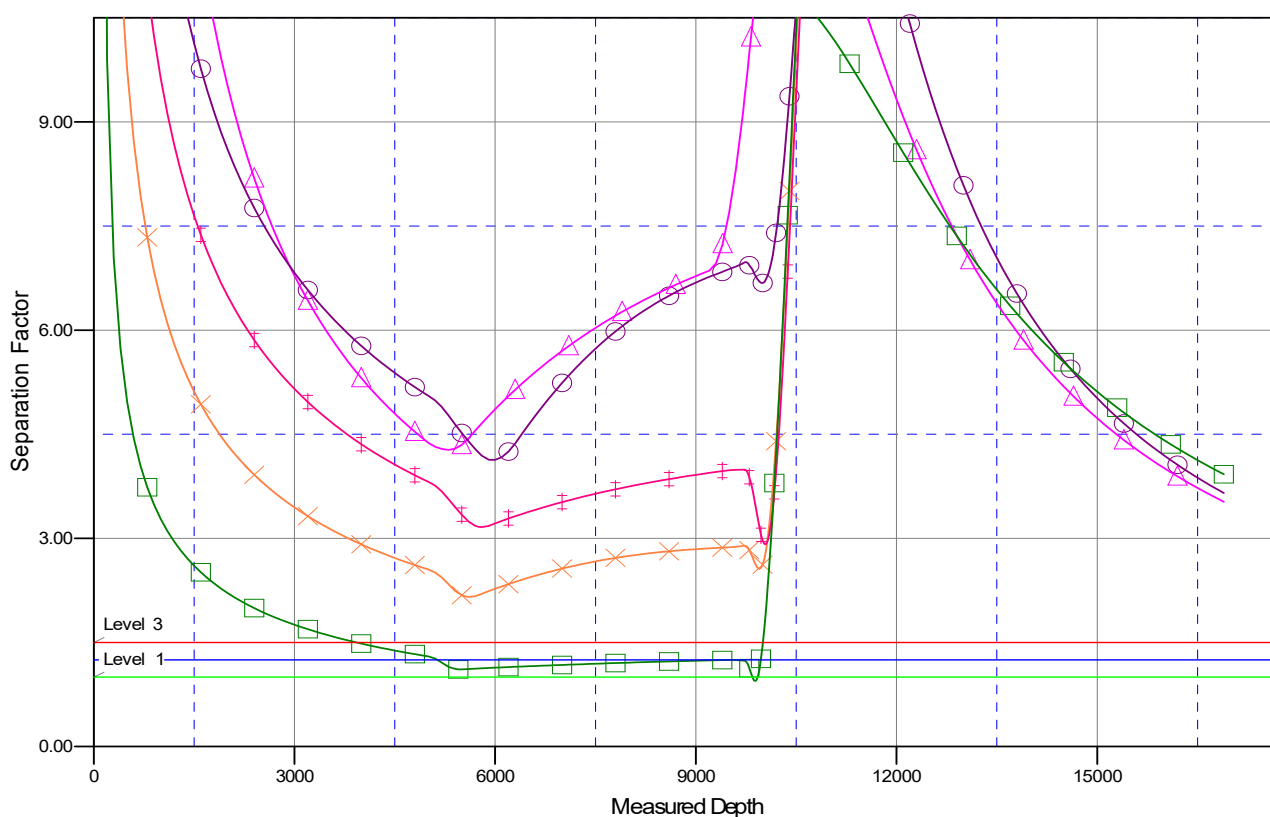
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Anderson Fed Com 503H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.37°

Separation Factor Plot



LEGEND

✕ Anderson FedCom 559H, Anderson Fed Com 569H, Anderson Fed Com 569H - Prelim 1 V0
 ✕ Anderson FedCom 703H, Anderson Fed Com 703H, Anderson Fed Com 703H - Prelim 1 V0
 ■ Anderson FedCom 559H, Anderson Fed Com 569H, Anderson Fed Com 569H - Prelim 1 V0

△ Anderson FedCom 507H, Anderson Fed Com 507H, Anderson Fed Com 507H - Prelim 1 V0
 ○ Anderson FedCom 603H, Anderson Fed Com 603H, Anderson Fed Com 603H - Prelim 1 V0

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 62075

CONDITIONS

Operator: ADVANCE ENERGY PARTNERS HAT MESA, LLC 11490 Westheimer Rd., Ste 950 Houston, TX 77077	OGRID: 372417
	Action Number: 62075
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	11/16/2021