

Well Name: ANDERSON FED COM	Well Location: T22S / R32E / SEC 2 / LOT 2 /	County or Parish/State:
Well Number: 507H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM120905	Unit or CA Name:	Unit or CA Number:
US Well Number:	Well Status: Approved Application for Permit to Drill	Operator: ADVANCE ENERGY PARTNERS HAT MESA LLC

Notice of Intent

Sundry ID: 2636147

Type of Submission: Notice of Intent	Type of Action: Other
Date Sundry Submitted: 09/27/2021	Time Sundry Submitted: 02:56
Date proposed operation will begin: 10/04/2021	

Procedure Description: Request to move Surface Hole Location from 180' FNL & 2413' FEL, Section 2, T-22-S, R-32-E, Lot 2 to 180' FNL & 2248' FEL, Section 2, T-22-S, R-32-E, Lot 2. Request to move Bottom Hole Location from 1220' FSL & 2310' FEL, Section 26, T-21-S, R-32-E, SWSE to 1220' FSL & 1254' FEL, Section 26, T-21-S, R-32-E, SESE. 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_507H_SHL_BHL_etc_Sundry_Attachment_20210927145515.pdf

Well Name: ANDERSON FED COM	Well Location: T22S / R32E / SEC 2 / LOT 2 /	County or Parish/State:
Well Number: 507H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM120905	Unit or CA Name:	Unit or CA Number:
US Well Number:	Well Status: Approved Application for Permit to Drill	Operator: ADVANCE ENERGY PARTNERS HAT MESA LLC

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: SEP 27, 2021 02:55 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: 10/13/2021
Signature: Chris Walls	

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone (505) 393-6161 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 30-025-49405	Pool Code 51683	Pool Name RED TANK; BONE SPRING
Property Code 326484	Property Name ANDERSON FED COM	Well Number 507H
OGRID No. 372417	Operator Name ADVANCE ENERGY PARTNERS HAT MESA, LLC	Elevation 3662'

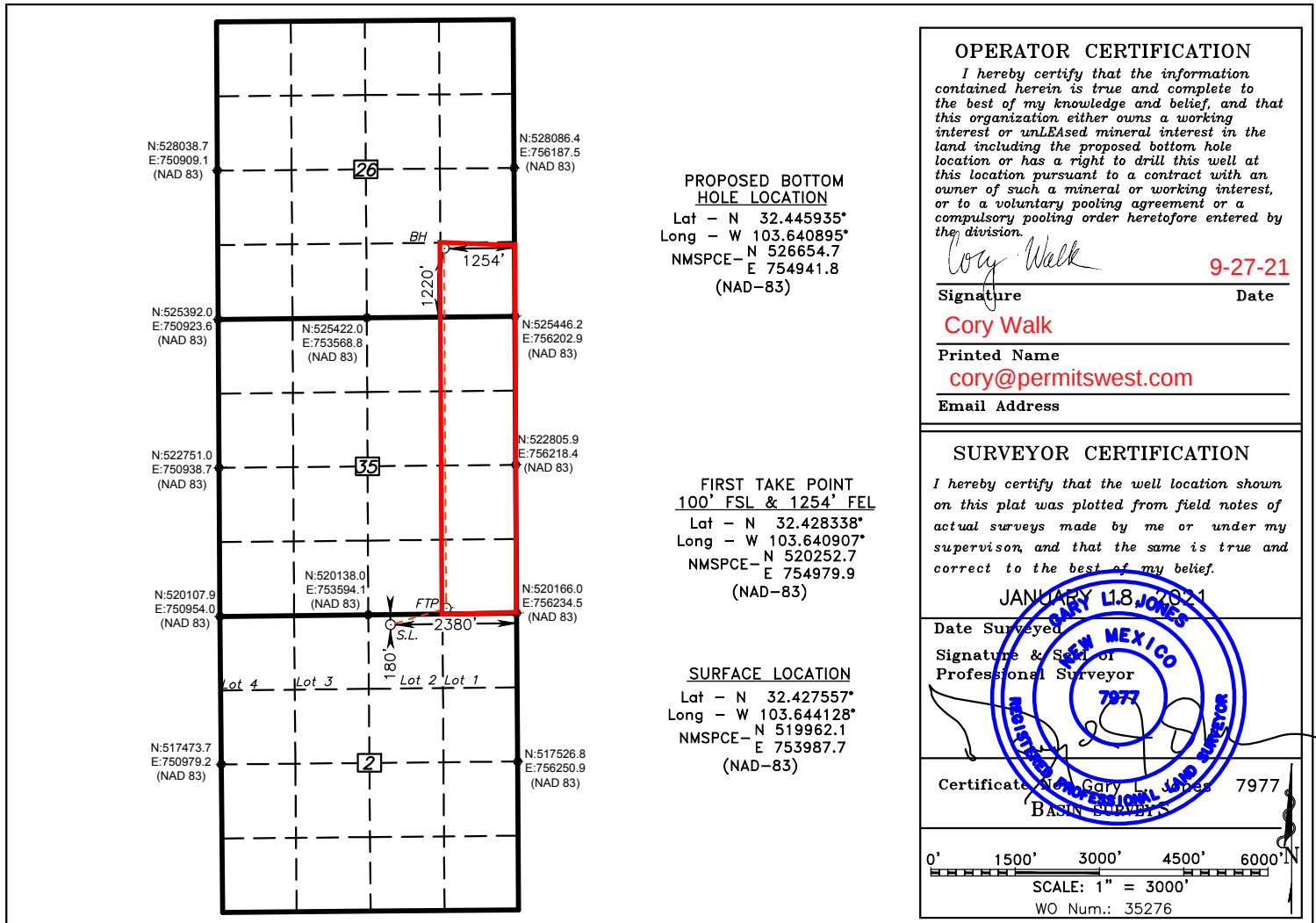
Surface Location

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	2248	EAST	LEA

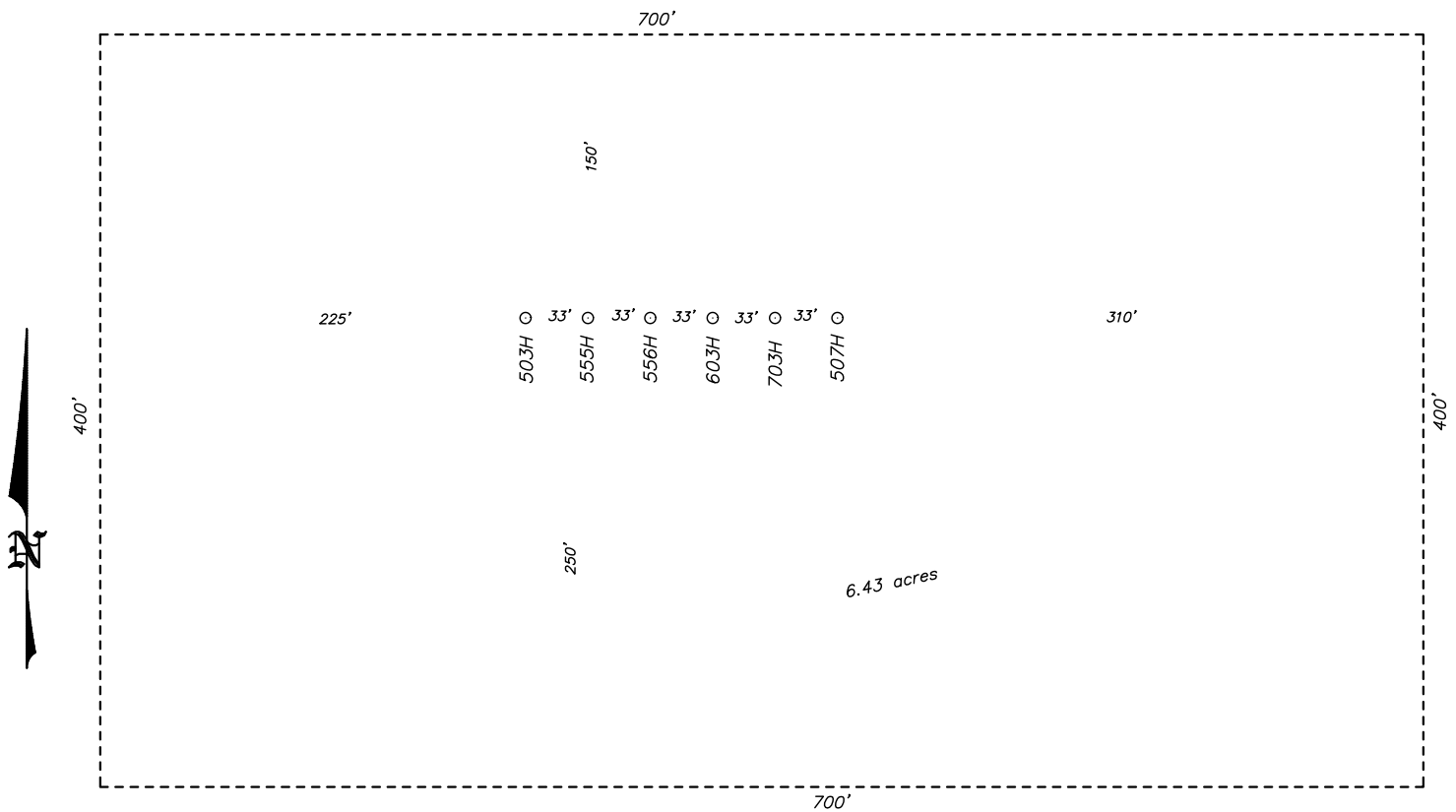
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	SOUTH/South line	Feet from the	East/West line	County
P	26	21 S	32 E		1220	SOUTH	1254	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



**SECTION 2, TOWNSHIP 22 SOUTH, RANGE 32 EAST. N.M.P.M.,
LEA COUNTY, NEW MEXICO.**



basin
surveys
focused on excellence
in the oilfield

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

100 0 100 200 FEET
SCALE: 1" = 100'

ADVANCE ENERGY PARTNERS HAT MESA, LLC

REF: ANDERSON FED COM 507H / WELL PAD TOPO

THE ANDERSON FED COM 507H LOCATED 180' FROM
THE NORTH LINE AND 2248' FROM THE EAST LINE OF
SECTION 2, TOWNSHIP 22 SOUTH, RANGE 32 EAST.

N.M.P.M., LEA COUNTY, NEW MEXICO.

W.O. Number: 35276	Drawn By: K. GOAD	Date: 01-19-2021	Survey Date: 01-18-2021	Sheet 1 of 1 Sheets
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CHANGE TO PLANS

Move Surface Hole Location

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

To: 180' FNL & 2248' FEL, Section 2, T-22-S, R-32-E, Lot 2

Move First Take Point

From: 100' FSL & 2310' FEL, Section 35, T-21-S, R-32-E, SWSE

To: 100' FSL & 1254' FEL, Section 35, T-21-S, R-32-E, SESE

Move Bottom Hole Location

From: 1220' FSL & 2310' FEL, Section 26, T-21-S, R-32-E, SWSE

To: 1220' FSL & 1254' FEL, Section 26, T-21-S, R-32-E, SESE

Target Formation

From: 2nd Bone Spring sandstone

To: 1st Bone Spring sandstone

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

Advance Energy Partners Hat Mesa, LLC
 Anderson Fed Com 507H
 SHL 180' FNL & 2248' FEL Section 2, T22S, R32E
 BHL 1220' FSL & 1254' FEL Section 26, T21S, R32E
 Lea County, NM

DRILL PLAN PAGE 1

Drilling Program

1. ESTIMATED TOPS

Formation Name	TVD	MD	Bearing
Quaternary caliche	000'	000'	water
Rustler anhydrite (surface csg set @ TVD 1219')	1194'	1194'	N/A
Salado salt	1401'	1401'	Salt
Tansil limestone (Int csg set @ TVD 4722')	3281'	3281'	N/A
Bell Canyon sandstone	4772'	4772'	hydrocarbons
Lower Brushy Canyon sandstone	8419'	8429'	hydrocarbons
Bone Spring Lime	8752'	8756'	hydrocarbons
Avalon shale	8939'	8951'	Hydrocarbons
KOP	9185'	9206'	hydrocarbons
1 st Bone Spring sandstone	9806'	9822'	hydrocarbons
TD	9900'	16847'	hydrocarbons

2. NOTABLE ZONES

Bone Spring sand is the goal. Closest water well (CP 01701 POD 1) is 0.64 miles north. Depth to water was reported at 560' in the 840' deep well.

3. PRESSURE CONTROL

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

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
 Anderson Fed Com 507H
 SHL 180' FNL & 2248' FEL Section 2, T22S, R32E
 BHL 1220' FSL & 1254' FEL Section 26, T21S, R32E
 Lea County, NM

DRILL PLAN PAGE 2

Variance is requested to use a speed head (aka, multi-bowl wellhead) after setting intermediate 1. Advance has drilled >50 wells in immediate area to depths >5,000' and never encountered any type of flows. This will allow Advance to land the intermediate 1 and use the current proposed wellhead design. Advance will then NU BOPE on the 13.375" and continue using the BOPE to the completion of the well.

4. CASING & CEMENT

Name	Hole OD	Casing OD	Tapered	Top MD	Bottom MD	Top TVD	BTM TVD	Grade	Weight	Thread	Collapse	Burst	Tension
Surface	17.5"	13.375"	No	0	1219	0	1219	J-55	54.5	BTC	1.125	1.125	1.6
1st Intermediate	12.25"	9.625"	No	0	4000	0	4000	J-55	40	LTC	1.125	1.125	1.6
1st Intermediate	12.25"	9.625"	No	4000	4722	4000	4722	HCL-80	40	LTC	1.125	1.125	1.6
Production	8.75"	5.5"	No	0	16847	0	9900	HCP-110	20	CDC-HTQ	1.125	1.125	1.6

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

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.

Cement additive names in following table are West Texas Cementers trade names. They, or equivalent, products will be used.

Advance Energy Partners Hat Mesa, LLC
 Anderson Fed Com 507H
 SHL 180' FNL & 2248' FEL Section 2, T22S, R32E
 BHL 1220' FSL & 1254' FEL Section 26, T21S, R32E
 Lea County, NM

DRILL PLAN PAGE 3

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% R1300 + 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	1380	11	153%	Prolite	5PPS Plexcrete STE + 2% SMS + 0.05% SuspendedCem 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	820	3.39	2780	10.7	50%	Prolite	5PPS Plexcrete STE + 2% SMS + 0.05% SuspendedCem 6302 + 0.4% R-1300 + 0.5% C-47B + 3PPS Gilsonite + 0.005GPS NoFoam V1A
	Tail	9206	1740	1.22	2123	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.

Name	Top	Bottom	Type	Mud Weight (ppg)	Visc	Fluid Loss
Surface	0	1219	FW Spud Mud	8.4 - 10.0	28 - 36	NC
Intermediate 1	1219	4823	Brine Water	10.0 - 10.5	28 - 32	NC
Production	4823	10445	Cut Brine	9.2 - 9.5	28 - 30	NC
Production	10445	16847	OBM	9.5 - 9.8	55 - 65	6 - 8

Advance Energy Partners Hat Mesa, LLC
Anderson Fed Com 507H
SHL 180' FNL & 2248' FEL Section 2, T22S, R32E
BHL 1220' FSL & 1254' FEL Section 26, T21S, R32E
Lea County, NM

DRILL PLAN PAGE 4

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 ≈ 5427 psi. Expected bottom hole temperature is $\approx 214^{\circ}$ F.

H2S monitoring and detection equipment 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 -4 months to drill and complete the well.

**WELL DETAILS: Anderson Fed Com 507H**

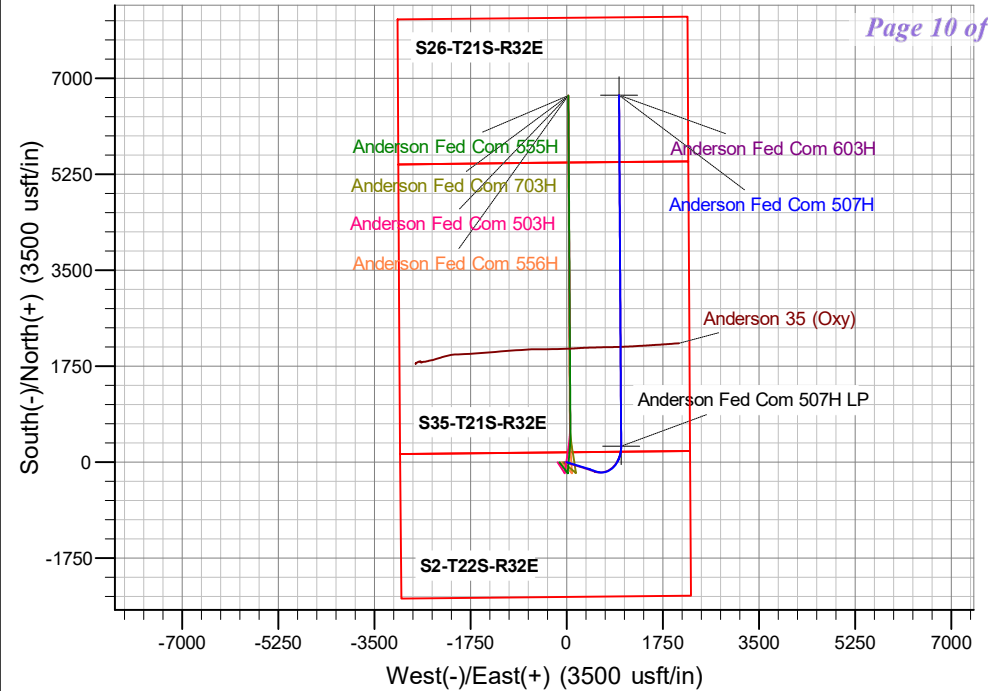
Ground Elev: 3662.0 KB: 3694.5

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	519962.22	753987.77	32° 25' 39.205 N	103° 38' 38.861 W

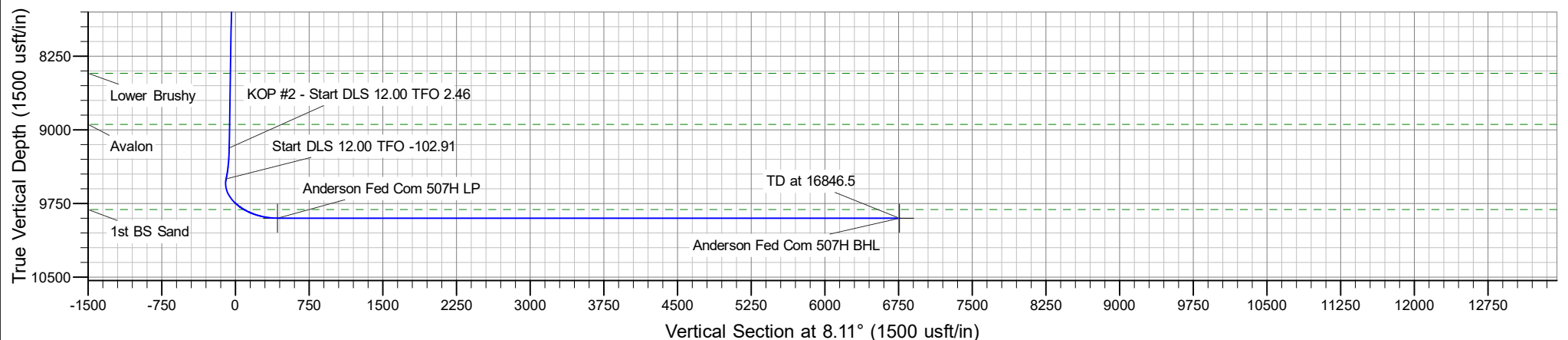
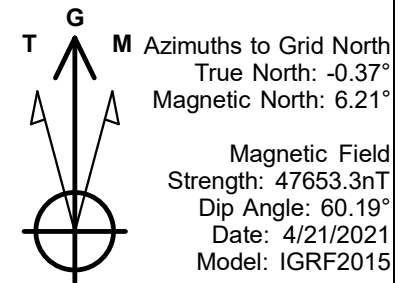
PROJECT DETAILS: Hat Mesa

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	5600.0	6.00	107.00	5598.9	-9.2	30.0	1.00	107.00	-4.8	Start 3605.8 hold at 5600.0 MD
4	9205.8	6.00	107.00	9185.0	-119.4	390.5	0.00	0.00	-63.1	KOP #2 - Start DLS 12.00 TFO 2.46
5	9571.0	49.83	109.23	9499.9	-173.6	548.2	12.00	2.46	-94.5	Start DLS 12.00 TFO -102.91
6	10444.5	90.00	359.66	9900.0	290.6	992.0	12.00	-102.91	427.7	LP - Start 6402.0 hold at 10444.5 MD
7	16846.5	90.00	359.66	9900.0	6692.5	954.2	0.00	0.00	6760.1	TD at 16846.5





Advance Energy Partners

Hat Mesa

Anderson Fed Com - Pad B

Anderson Fed Com 507H

Anderson Fed Com 507H

Plan: Anderson Fed Com 507H - Prelim 1

Standard Planning Report

17 June, 2021



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Anderson Fed Com 507H
Company:	Advance Energy Partners	TVD Reference:	WELL @ 3694.5usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3694.5usft (Original Well Elev)
Site:	Anderson Fed Com - Pad B	North Reference:	Grid
Well:	Anderson Fed Com 507H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 507H		
Design:	Anderson Fed Com 507H - 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 507H					
Well Position	+N/-S	0.0 usft	Northing:	519,962.23 usft	Latitude:	32° 25' 39.205 N
	+E/-W	0.0 usft	Easting:	753,987.77 usft	Longitude:	103° 38' 38.861 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,662.0 usft
Grid Convergence:		0.37 °				

Wellbore	Anderson Fed Com 507H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	4/21/2021	6.58	60.19	47,653.33437485

Design	Anderson Fed Com 507H - 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	8.11

Plan Survey Tool Program	Date	6/17/2021		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	16,846.5	Anderson Fed Com 507H - Prelim	MWD+HRGM
				OWSG MWD + HRGM

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	
5,600.0	6.00	107.00	5,598.9	-9.2	30.0	1.00	1.00	0.00	107.00	
9,205.8	6.00	107.00	9,185.0	-119.4	390.5	0.00	0.00	0.00	0.00	
9,571.0	49.83	109.23	9,499.9	-173.6	548.2	12.00	12.00	0.61	2.46	
10,444.5	90.00	359.66	9,900.0	290.6	992.0	12.00	4.60	-12.54	-102.91	Anderson Fed Com 5
16,846.5	90.00	359.66	9,900.0	6,692.5	954.2	0.00	0.00	0.00	0.00	Anderson Fed Com 5



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Anderson Fed Com 507H
Company:	Advance Energy Partners	TVD Reference:	WELL @ 3694.5usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3694.5usft (Original Well Elev)
Site:	Anderson Fed Com - Pad B	North Reference:	Grid
Well:	Anderson Fed Com 507H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 507H		
Design:	Anderson Fed Com 507H - 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
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.5	0.00	0.00	1,200.5	0.0	0.0	0.0	0.00	0.00	0.00
Rustler									
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
4,777.5	0.00	0.00	4,777.5	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



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Anderson Fed Com 507H
Company:	Advance Energy Partners	TVD Reference:	WELL @ 3694.5usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3694.5usft (Original Well Elev)
Site:	Anderson Fed Com - Pad B	North Reference:	Grid
Well:	Anderson Fed Com 507H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 507H		
Design:	Anderson Fed Com 507H - 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)
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
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	107.00	5,100.0	-0.3	0.8	-0.1	1.00	1.00	0.00
5,200.0	2.00	107.00	5,200.0	-1.0	3.3	-0.5	1.00	1.00	0.00
5,300.0	3.00	107.00	5,299.9	-2.3	7.5	-1.2	1.00	1.00	0.00
5,400.0	4.00	107.00	5,399.7	-4.1	13.3	-2.2	1.00	1.00	0.00
5,500.0	5.00	107.00	5,499.4	-6.4	20.9	-3.4	1.00	1.00	0.00
5,600.0	6.00	107.00	5,598.9	-9.2	30.0	-4.8	1.00	1.00	0.00
Start 3605.8 hold at 5600.0 MD									
5,700.0	6.00	107.00	5,698.4	-12.2	40.0	-6.5	0.00	0.00	0.00
5,800.0	6.00	107.00	5,797.8	-15.3	50.0	-8.1	0.00	0.00	0.00
5,900.0	6.00	107.00	5,897.3	-18.3	60.0	-9.7	0.00	0.00	0.00
6,000.0	6.00	107.00	5,996.7	-21.4	70.0	-11.3	0.00	0.00	0.00
6,100.0	6.00	107.00	6,096.2	-24.5	80.0	-12.9	0.00	0.00	0.00
6,200.0	6.00	107.00	6,195.6	-27.5	90.0	-14.5	0.00	0.00	0.00
6,300.0	6.00	107.00	6,295.1	-30.6	100.0	-16.2	0.00	0.00	0.00
6,400.0	6.00	107.00	6,394.5	-33.6	110.0	-17.8	0.00	0.00	0.00
6,500.0	6.00	107.00	6,494.0	-36.7	120.0	-19.4	0.00	0.00	0.00
6,600.0	6.00	107.00	6,593.4	-39.7	130.0	-21.0	0.00	0.00	0.00
6,700.0	6.00	107.00	6,692.9	-42.8	140.0	-22.6	0.00	0.00	0.00
6,800.0	6.00	107.00	6,792.3	-45.9	150.0	-24.2	0.00	0.00	0.00
6,900.0	6.00	107.00	6,891.8	-48.9	160.0	-25.8	0.00	0.00	0.00
7,000.0	6.00	107.00	6,991.2	-52.0	170.0	-27.5	0.00	0.00	0.00
7,100.0	6.00	107.00	7,090.7	-55.0	180.0	-29.1	0.00	0.00	0.00
7,200.0	6.00	107.00	7,190.1	-58.1	190.0	-30.7	0.00	0.00	0.00
7,300.0	6.00	107.00	7,289.6	-61.1	199.9	-32.3	0.00	0.00	0.00
7,400.0	6.00	107.00	7,389.0	-64.2	209.9	-33.9	0.00	0.00	0.00
7,500.0	6.00	107.00	7,488.5	-67.2	219.9	-35.5	0.00	0.00	0.00
7,600.0	6.00	107.00	7,587.9	-70.3	229.9	-37.1	0.00	0.00	0.00
7,700.0	6.00	107.00	7,687.4	-73.4	239.9	-38.8	0.00	0.00	0.00
7,800.0	6.00	107.00	7,786.9	-76.4	249.9	-40.4	0.00	0.00	0.00
7,900.0	6.00	107.00	7,886.3	-79.5	259.9	-42.0	0.00	0.00	0.00
8,000.0	6.00	107.00	7,985.8	-82.5	269.9	-43.6	0.00	0.00	0.00
8,100.0	6.00	107.00	8,085.2	-85.6	279.9	-45.2	0.00	0.00	0.00
8,200.0	6.00	107.00	8,184.7	-88.6	289.9	-46.8	0.00	0.00	0.00
8,300.0	6.00	107.00	8,284.1	-91.7	299.9	-48.4	0.00	0.00	0.00
8,400.0	6.00	107.00	8,383.6	-94.7	309.9	-50.1	0.00	0.00	0.00
8,441.2	6.00	107.00	8,424.5	-96.0	314.0	-50.7	0.00	0.00	0.00
Lower Brushy									
8,500.0	6.00	107.00	8,483.0	-97.8	319.9	-51.7	0.00	0.00	0.00
8,600.0	6.00	107.00	8,582.5	-100.9	329.9	-53.3	0.00	0.00	0.00
8,700.0	6.00	107.00	8,681.9	-103.9	339.9	-54.9	0.00	0.00	0.00
8,800.0	6.00	107.00	8,781.4	-107.0	349.9	-56.5	0.00	0.00	0.00
8,900.0	6.00	107.00	8,880.8	-110.0	359.9	-58.1	0.00	0.00	0.00
8,964.0	6.00	107.00	8,944.5	-112.0	366.3	-59.2	0.00	0.00	0.00
Avalon									
9,000.0	6.00	107.00	8,980.3	-113.1	369.9	-59.7	0.00	0.00	0.00
9,100.0	6.00	107.00	9,079.7	-116.1	379.9	-61.4	0.00	0.00	0.00
9,200.0	6.00	107.00	9,179.2	-119.2	389.9	-63.0	0.00	0.00	0.00
9,205.8	6.00	107.00	9,185.0	-119.4	390.5	-63.1	0.00	0.00	0.00
KOP #2 - Start DLS 12.00 TFO 2.46									
9,300.0	17.30	108.62	9,277.1	-125.3	408.5	-66.4	12.00	12.00	1.72
9,400.0	29.30	108.99	9,368.7	-138.1	445.8	-73.7	12.00	12.00	0.37



Planning Report

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Project:	Hat Mesa	MD Reference:	WELL @ 3694.5usft (Original Well Elev)
Site:	Anderson Fed Com - Pad B	North Reference:	Grid
Well:	Anderson Fed Com 507H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 507H		
Design:	Anderson Fed Com 507H - 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)
9,500.0	41.30	109.15	9,450.2	-156.9	500.4	-84.7	12.00	12.00	0.17
9,571.0	49.83	109.23	9,499.9	-173.6	548.2	-94.5	12.00	12.00	0.11
Start DLS 12.00 TFO -102.91									
9,600.0	49.14	104.75	9,518.7	-180.0	569.3	-97.9	12.00	-2.39	-15.48
9,700.0	48.14	88.79	9,585.0	-188.9	643.3	-96.2	12.00	-0.99	-15.96
9,800.0	49.37	72.89	9,651.2	-176.9	717.1	-73.9	12.00	1.23	-15.90
9,900.0	52.66	58.02	9,714.3	-144.5	787.3	-32.0	12.00	3.29	-14.87
10,000.0	57.63	44.68	9,771.6	-93.3	851.0	27.8	12.00	4.97	-13.33
10,079.8	62.51	35.16	9,811.5	-40.2	895.2	86.5	12.00	6.11	-11.93
1st BS Sand									
10,100.0	63.84	32.90	9,820.6	-25.3	905.3	102.7	12.00	6.61	-11.23
10,200.0	70.91	22.38	9,859.1	56.4	947.8	189.6	12.00	7.07	-10.52
10,300.0	78.53	12.75	9,885.5	148.2	976.7	284.6	12.00	7.62	-9.63
10,400.0	86.44	3.64	9,898.6	246.2	990.7	383.5	12.00	7.91	-9.11
10,444.5	90.00	359.66	9,900.0	290.6	992.0	427.7	12.00	8.00	-8.95
LP - Start 6402.0 hold at 10444.5 MD - Anderson Fed Com 507H LP									
10,500.0	90.00	359.66	9,900.0	346.1	991.7	482.6	0.00	0.00	0.00
10,600.0	90.00	359.66	9,900.0	446.1	991.1	581.5	0.00	0.00	0.00
10,700.0	90.00	359.66	9,900.0	546.1	990.5	680.4	0.00	0.00	0.00
10,800.0	90.00	359.66	9,900.0	646.1	989.9	779.3	0.00	0.00	0.00
10,900.0	90.00	359.66	9,900.0	746.1	989.3	878.3	0.00	0.00	0.00
11,000.0	90.00	359.66	9,900.0	846.1	988.7	977.2	0.00	0.00	0.00
11,100.0	90.00	359.66	9,900.0	946.1	988.1	1,076.1	0.00	0.00	0.00
11,200.0	90.00	359.66	9,900.0	1,046.1	987.5	1,175.0	0.00	0.00	0.00
11,300.0	90.00	359.66	9,900.0	1,146.1	986.9	1,273.9	0.00	0.00	0.00
11,400.0	90.00	359.66	9,900.0	1,246.1	986.3	1,372.8	0.00	0.00	0.00
11,500.0	90.00	359.66	9,900.0	1,346.1	985.7	1,471.7	0.00	0.00	0.00
11,600.0	90.00	359.66	9,900.0	1,446.1	985.1	1,570.6	0.00	0.00	0.00
11,700.0	90.00	359.66	9,900.0	1,546.1	984.5	1,669.6	0.00	0.00	0.00
11,800.0	90.00	359.66	9,900.0	1,646.1	984.0	1,768.5	0.00	0.00	0.00
11,900.0	90.00	359.66	9,900.0	1,746.1	983.4	1,867.4	0.00	0.00	0.00
12,000.0	90.00	359.66	9,900.0	1,846.1	982.8	1,966.3	0.00	0.00	0.00
12,100.0	90.00	359.66	9,900.0	1,946.1	982.2	2,065.2	0.00	0.00	0.00
12,200.0	90.00	359.66	9,900.0	2,046.1	981.6	2,164.1	0.00	0.00	0.00
12,300.0	90.00	359.66	9,900.0	2,146.1	981.0	2,263.0	0.00	0.00	0.00
12,400.0	90.00	359.66	9,900.0	2,246.1	980.4	2,362.0	0.00	0.00	0.00
12,500.0	90.00	359.66	9,900.0	2,346.1	979.8	2,460.9	0.00	0.00	0.00
12,600.0	90.00	359.66	9,900.0	2,446.1	979.2	2,559.8	0.00	0.00	0.00
12,700.0	90.00	359.66	9,900.0	2,546.1	978.6	2,658.7	0.00	0.00	0.00
12,800.0	90.00	359.66	9,900.0	2,646.1	978.0	2,757.6	0.00	0.00	0.00
12,900.0	90.00	359.66	9,900.0	2,746.1	977.4	2,856.5	0.00	0.00	0.00
13,000.0	90.00	359.66	9,900.0	2,846.1	976.8	2,955.4	0.00	0.00	0.00
13,100.0	90.00	359.66	9,900.0	2,946.0	976.2	3,054.3	0.00	0.00	0.00
13,200.0	90.00	359.66	9,900.0	3,046.0	975.6	3,153.3	0.00	0.00	0.00
13,300.0	90.00	359.66	9,900.0	3,146.0	975.1	3,252.2	0.00	0.00	0.00
13,400.0	90.00	359.66	9,900.0	3,246.0	974.5	3,351.1	0.00	0.00	0.00
13,500.0	90.00	359.66	9,900.0	3,346.0	973.9	3,450.0	0.00	0.00	0.00
13,600.0	90.00	359.66	9,900.0	3,446.0	973.3	3,548.9	0.00	0.00	0.00
13,700.0	90.00	359.66	9,900.0	3,546.0	972.7	3,647.8	0.00	0.00	0.00
13,800.0	90.00	359.66	9,900.0	3,646.0	972.1	3,746.7	0.00	0.00	0.00
13,900.0	90.00	359.66	9,900.0	3,746.0	971.5	3,845.7	0.00	0.00	0.00
14,000.0	90.00	359.66	9,900.0	3,846.0	970.9	3,944.6	0.00	0.00	0.00
14,100.0	90.00	359.66	9,900.0	3,946.0	970.3	4,043.5	0.00	0.00	0.00



Planning Report

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Project:	Hat Mesa	MD Reference:	WELL @ 3694.5usft (Original Well Elev)
Site:	Anderson Fed Com - Pad B	North Reference:	Grid
Well:	Anderson Fed Com 507H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 507H		
Design:	Anderson Fed Com 507H - 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)	
14,200.0	90.00	359.66	9,900.0	4,046.0	969.7	4,142.4	0.00	0.00	0.00	
14,300.0	90.00	359.66	9,900.0	4,146.0	969.1	4,241.3	0.00	0.00	0.00	
14,400.0	90.00	359.66	9,900.0	4,246.0	968.5	4,340.2	0.00	0.00	0.00	
14,500.0	90.00	359.66	9,900.0	4,346.0	967.9	4,439.1	0.00	0.00	0.00	
14,600.0	90.00	359.66	9,900.0	4,446.0	967.3	4,538.0	0.00	0.00	0.00	
14,700.0	90.00	359.66	9,900.0	4,546.0	966.7	4,637.0	0.00	0.00	0.00	
14,800.0	90.00	359.66	9,900.0	4,646.0	966.2	4,735.9	0.00	0.00	0.00	
14,900.0	90.00	359.66	9,900.0	4,746.0	965.6	4,834.8	0.00	0.00	0.00	
15,000.0	90.00	359.66	9,900.0	4,846.0	965.0	4,933.7	0.00	0.00	0.00	
15,100.0	90.00	359.66	9,900.0	4,946.0	964.4	5,032.6	0.00	0.00	0.00	
15,200.0	90.00	359.66	9,900.0	5,046.0	963.8	5,131.5	0.00	0.00	0.00	
15,300.0	90.00	359.66	9,900.0	5,146.0	963.2	5,230.4	0.00	0.00	0.00	
15,400.0	90.00	359.66	9,900.0	5,246.0	962.6	5,329.4	0.00	0.00	0.00	
15,500.0	90.00	359.66	9,900.0	5,346.0	962.0	5,428.3	0.00	0.00	0.00	
15,600.0	90.00	359.66	9,900.0	5,446.0	961.4	5,527.2	0.00	0.00	0.00	
15,700.0	90.00	359.66	9,900.0	5,546.0	960.8	5,626.1	0.00	0.00	0.00	
15,800.0	90.00	359.66	9,900.0	5,646.0	960.2	5,725.0	0.00	0.00	0.00	
15,900.0	90.00	359.66	9,900.0	5,746.0	959.6	5,823.9	0.00	0.00	0.00	
16,000.0	90.00	359.66	9,900.0	5,846.0	959.0	5,922.8	0.00	0.00	0.00	
16,100.0	90.00	359.66	9,900.0	5,946.0	958.4	6,021.7	0.00	0.00	0.00	
16,200.0	90.00	359.66	9,900.0	6,046.0	957.8	6,120.7	0.00	0.00	0.00	
16,300.0	90.00	359.66	9,900.0	6,146.0	957.3	6,219.6	0.00	0.00	0.00	
16,400.0	90.00	359.66	9,900.0	6,246.0	956.7	6,318.5	0.00	0.00	0.00	
16,500.0	90.00	359.66	9,900.0	6,346.0	956.1	6,417.4	0.00	0.00	0.00	
16,600.0	90.00	359.66	9,900.0	6,446.0	955.5	6,516.3	0.00	0.00	0.00	
16,700.0	90.00	359.66	9,900.0	6,546.0	954.9	6,615.2	0.00	0.00	0.00	
16,800.0	90.00	359.66	9,900.0	6,646.0	954.3	6,714.1	0.00	0.00	0.00	
16,846.5	90.00	359.66	9,900.0	6,692.5	954.2	6,760.1	0.00	0.00	0.00	
TD at 16846.5 - Anderson Fed Com 507H 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 507I	0.00	0.00	9,900.0	290.6	992.0	520,252.78	754,979.77	32° 25' 42.017 N	103° 38' 27.265 W
- plan hits target center									
- Point									
Anderson Fed Com 507I	0.00	0.00	9,900.0	6,692.5	954.2	526,654.68	754,941.97	32° 26' 45.366 N	103° 38' 27.222 W
- plan hits target center									
- Point									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
10,444.5	9,900.0	LP	5-1/2	5-1/2	



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Company:	Advance Energy Partners	TVD Reference:	WELL @ 3694.5usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3694.5usft (Original Well Elev)
Site:	Anderson Fed Com - Pad B	North Reference:	Grid
Well:	Anderson Fed Com 507H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 507H		
Design:	Anderson Fed Com 507H - Prelim 1		

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,200.5	1,200.5	Rustler		0.00	
4,777.5	4,777.5	Base of Limestone		0.00	
8,441.2	8,424.5	Lower Brushy		0.00	
8,964.0	8,944.5	Avalon		0.00	
10,079.8	9,811.5	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	
5,600.0	5,598.9	-9.2	30.0	Start 3605.8 hold at 5600.0 MD	
9,205.8	9,185.0	-119.4	390.5	KOP #2 - Start DLS 12.00 TFO 2.46	
9,571.0	9,499.9	-173.6	548.2	Start DLS 12.00 TFO -102.91	
10,444.5	9,900.0	290.6	992.0	LP - Start 6402.0 hold at 10444.5 MD	
16,846.5	9,900.0	6,692.5	954.2	TD at 16846.5	



Advance Energy Partners

Hat Mesa

Anderson Fed Com - Pad B

Anderson Fed Com 507H

Anderson Fed Com 507H

Anderson Fed Com 507H - Prelim 1

Anticollision Report

17 June, 2021



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 507H
Project:	Hat Mesa	TVD Reference:	WELL @ 3694.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3694.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 507H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 507H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 507H - Prelim 1	Offset TVD Reference:	Offset Datum

Reference	Anderson Fed Com 507H - 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 6/17/2021				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	16,846.5	Anderson Fed Com 507H - 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 A						
Anderson 35 (Oxy) - Anderson 35 - Anderson 35	11,800.0	13,999.4	914.2	802.8	8.207 SF	
Anderson 35 (Oxy) - Anderson 35 - Anderson 35	12,256.3	14,012.1	792.3	701.4	8.722 CC, ES	
Anderson Fed Com - Pad B						
Anderson Fed Com 503H - Anderson Fed Com 503H - A	5,004.7	5,008.3	165.1	138.9	6.316 CC, ES	
Anderson Fed Com 503H - Anderson Fed Com 503H - A	16,846.5	16,893.7	970.6	696.7	3.543 SF	
Anderson Fed Com 555H - Anderson Fed Com 555H - A	5,000.0	5,003.5	131.1	105.0	5.019 CC, ES	
Anderson Fed Com 555H - Anderson Fed Com 555H - A	5,100.0	5,103.5	132.0	105.6	4.999 SF	
Anderson Fed Com 556H - Anderson Fed Com 556H - A	5,000.0	5,003.5	98.4	72.3	3.767 CC, ES	
Anderson Fed Com 556H - Anderson Fed Com 556H - A	5,100.0	5,103.5	99.3	72.9	3.760 SF	
Anderson Fed Com 603H - Anderson Fed Com 603H - A	5,000.0	5,004.5	33.0	6.9	1.263 Level 3, CC, ES, SF	
Anderson Fed Com 703H - Anderson Fed Com 703H - A	5,000.0	5,003.5	65.4	39.3	2.503 CC, ES, SF	

Offset Design:	Anderson Fed Com - Pad A - Anderson 35 (Oxy) - Anderson 35 - Anderson 35										Offset Site Error:	0.0 usft
Survey Program:	109-MWD+HRGM										Offset Well Error:	0.0 usft
Reference	Vertical	Offset	Semi Major Axis	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning
Measured Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	Reference (usft)	Offset (usft)	Tooface (")	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	
11,700.0	9,900.0	13,996.8	10,700.7	47.9	116.9	-178.56	2,101.8	961.4	967.9	851.5	116.41	8.315
11,800.0	9,900.0	13,999.4	10,700.7	49.2	117.0	-178.76	2,101.9	964.0	914.2	802.8	111.39	8.207 SF
11,900.0	9,900.0	14,002.1	10,700.7	50.6	117.1	-178.95	2,102.0	966.7	868.6	762.9	105.77	8.212
12,000.0	9,900.0	14,004.9	10,700.7	52.0	117.2	-179.15	2,102.1	969.5	832.6	732.7	99.96	8.329
12,100.0	9,900.0	14,007.7	10,700.7	53.5	117.2	-179.35	2,102.2	972.3	807.5	712.7	94.80	8.518
12,200.0	9,900.0	14,010.5	10,700.7	55.0	117.3	-179.55	2,102.2	975.1	794.3	702.8	91.47	8.683
12,256.3	9,900.0	14,012.1	10,700.7	55.8	117.4	-179.67	2,102.3	976.7	792.3	701.4	90.84	8.722 CC, ES
12,300.0	9,900.0	14,013.3	10,700.8	56.5	117.4	-179.76	2,102.3	977.9	793.5	702.4	91.04	8.715
12,400.0	9,900.0	14,016.3	10,700.8	58.0	117.5	-179.97	2,102.4	980.9	805.2	711.5	93.65	8.598
12,500.0	9,900.0	14,019.2	10,700.8	59.6	117.6	-179.81	2,102.6	983.8	828.9	730.5	98.36	8.427
12,600.0	9,900.0	14,022.3	10,700.8	61.2	117.7	-179.60	2,102.7	986.8	863.6	759.6	103.99	8.305
12,700.0	9,900.0	14,025.3	10,700.8	62.8	117.8	-179.37	2,102.8	989.9	908.0	798.3	109.64	8.282
12,800.0	9,900.0	14,028.4	10,700.8	64.5	117.9	-179.15	2,102.9	993.0	960.8	845.9	114.84	8.366

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 507H
Project:	Hat Mesa	TVD Reference:	WELL @ 3694.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3694.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 507H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 507H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 507H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 503H - Anderson Fed Com 503H - Anderson Fed Com 503H - 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	3.5	3.5	0.0	0.0	-90.62	-1.8	-165.1	165.1			
100.0	100.0	103.5	103.5	0.5	0.6	-90.62	-1.8	-165.1	165.1	164.0	1.11	149.254
200.0	200.0	203.5	203.5	1.7	1.7	-90.62	-1.8	-165.1	165.1	161.6	3.45	47.845
300.0	300.0	303.5	303.5	2.4	2.4	-90.62	-1.8	-165.1	165.1	160.2	4.84	34.082
400.0	400.0	403.5	403.5	3.0	3.0	-90.62	-1.8	-165.1	165.1	159.2	5.93	27.859
500.0	500.0	503.5	503.5	3.4	3.4	-90.62	-1.8	-165.1	165.1	158.2	6.85	24.114
600.0	600.0	603.5	603.5	3.8	3.8	-90.62	-1.8	-165.1	165.1	157.4	7.66	21.543
700.0	700.0	703.5	703.5	4.2	4.2	-90.62	-1.8	-165.1	165.1	156.7	8.41	19.636
800.0	800.0	803.5	803.5	4.5	4.6	-90.62	-1.8	-165.1	165.1	156.0	9.10	18.149
900.0	900.0	903.5	903.5	4.9	4.9	-90.62	-1.8	-165.1	165.1	155.3	9.74	16.946
1,000.0	1,000.0	1,003.5	1,003.5	5.2	5.2	-90.62	-1.8	-165.1	165.1	154.7	10.35	15.946
1,100.0	1,100.0	1,103.5	1,103.5	5.5	5.5	-90.62	-1.8	-165.1	165.1	154.1	10.93	15.099
1,200.0	1,200.0	1,203.5	1,203.5	5.7	5.7	-90.62	-1.8	-165.1	165.1	153.6	11.49	14.367
1,300.0	1,300.0	1,303.5	1,303.5	6.0	6.0	-90.62	-1.8	-165.1	165.1	153.1	12.02	13.728
1,400.0	1,400.0	1,403.5	1,403.5	6.3	6.3	-90.62	-1.8	-165.1	165.1	152.5	12.54	13.163
1,500.0	1,500.0	1,503.5	1,503.5	6.5	6.5	-90.62	-1.8	-165.1	165.1	152.0	13.04	12.659
1,600.0	1,600.0	1,603.5	1,603.5	6.8	6.8	-90.62	-1.8	-165.1	165.1	151.6	13.53	12.205
1,700.0	1,700.0	1,703.5	1,703.5	7.0	7.0	-90.62	-1.8	-165.1	165.1	151.1	14.00	11.793
1,800.0	1,800.0	1,803.5	1,803.5	7.2	7.2	-90.62	-1.8	-165.1	165.1	150.6	14.46	11.418
1,900.0	1,900.0	1,903.5	1,903.5	7.4	7.5	-90.62	-1.8	-165.1	165.1	150.2	14.91	11.073
2,000.0	2,000.0	2,003.5	2,003.5	7.7	7.7	-90.62	-1.8	-165.1	165.1	149.7	15.35	10.756
2,100.0	2,100.0	2,103.5	2,103.5	7.9	7.9	-90.62	-1.8	-165.1	165.1	149.3	15.78	10.463
2,200.0	2,200.0	2,203.5	2,203.5	8.1	8.1	-90.62	-1.8	-165.1	165.1	148.9	16.20	10.190
2,300.0	2,300.0	2,303.5	2,303.5	8.3	8.3	-90.62	-1.8	-165.1	165.1	148.5	16.62	9.935
2,400.0	2,400.0	2,403.5	2,403.5	8.5	8.5	-90.62	-1.8	-165.1	165.1	148.1	17.02	9.697
2,500.0	2,500.0	2,503.5	2,503.5	8.7	8.7	-90.62	-1.8	-165.1	165.1	147.7	17.42	9.474
2,600.0	2,600.0	2,603.5	2,603.5	8.9	8.9	-90.62	-1.8	-165.1	165.1	147.3	17.82	9.264
2,700.0	2,700.0	2,703.5	2,703.5	9.1	9.1	-90.62	-1.8	-165.1	165.1	146.9	18.21	9.066
2,800.0	2,800.0	2,803.5	2,803.5	9.3	9.3	-90.62	-1.8	-165.1	165.1	146.5	18.59	8.879
2,900.0	2,900.0	2,903.5	2,903.5	9.5	9.5	-90.62	-1.8	-165.1	165.1	146.1	18.97	8.701
3,000.0	3,000.0	3,003.5	3,003.5	9.7	9.7	-90.62	-1.8	-165.1	165.1	145.7	19.35	8.533
3,100.0	3,100.0	3,103.5	3,103.5	9.9	9.9	-90.62	-1.8	-165.1	165.1	145.4	19.72	8.373
3,200.0	3,200.0	3,203.5	3,203.5	10.0	10.0	-90.62	-1.8	-165.1	165.1	145.0	20.08	8.220
3,300.0	3,300.0	3,303.5	3,303.5	10.2	10.2	-90.62	-1.8	-165.1	165.1	144.6	20.44	8.075
3,400.0	3,400.0	3,403.5	3,403.5	10.4	10.4	-90.62	-1.8	-165.1	165.1	144.3	20.80	7.936
3,500.0	3,500.0	3,503.5	3,503.5	10.6	10.6	-90.62	-1.8	-165.1	165.1	143.9	21.15	7.803
3,600.0	3,600.0	3,603.5	3,603.5	10.7	10.8	-90.62	-1.8	-165.1	165.1	143.6	21.51	7.676
3,700.0	3,700.0	3,703.5	3,703.5	10.9	10.9	-90.62	-1.8	-165.1	165.1	143.2	21.85	7.554
3,800.0	3,800.0	3,803.5	3,803.5	11.1	11.1	-90.62	-1.8	-165.1	165.1	142.9	22.20	7.437
3,900.0	3,900.0	3,903.5	3,903.5	11.3	11.3	-90.62	-1.8	-165.1	165.1	142.5	22.54	7.324
4,000.0	4,000.0	4,003.5	4,003.5	11.4	11.4	-90.62	-1.8	-165.1	165.1	142.2	22.88	7.216
4,100.0	4,100.0	4,103.5	4,103.5	11.6	11.6	-90.62	-1.8	-165.1	165.1	141.9	23.21	7.111
4,200.0	4,200.0	4,203.5	4,203.5	11.8	11.8	-90.62	-1.8	-165.1	165.1	141.5	23.55	7.011
4,300.0	4,300.0	4,303.5	4,303.5	11.9	11.9	-90.62	-1.8	-165.1	165.1	141.2	23.88	6.914
4,400.0	4,400.0	4,403.5	4,403.5	12.1	12.1	-90.62	-1.8	-165.1	165.1	140.9	24.21	6.820
4,500.0	4,500.0	4,503.5	4,503.5	12.3	12.3	-90.62	-1.8	-165.1	165.1	140.5	24.53	6.729
4,600.0	4,600.0	4,603.5	4,603.5	12.4	12.4	-90.62	-1.8	-165.1	165.1	140.2	24.86	6.642
4,700.0	4,700.0	4,703.5	4,703.5	12.6	12.6	-90.62	-1.8	-165.1	165.1	139.9	25.18	6.557
4,800.0	4,800.0	4,803.5	4,803.5	12.7	12.8	-90.62	-1.8	-165.1	165.1	139.6	25.50	6.474
4,900.0	4,900.0	4,903.5	4,903.5	12.9	12.9	-90.62	-1.8	-165.1	165.1	139.3	25.81	6.395
5,000.0	5,000.0	5,003.6	5,003.6	13.1	13.1	-90.62	-1.8	-165.1	165.1	139.0	26.13	6.318
5,004.7	5,004.7	5,008.3	5,008.3	13.1	13.1	162.38	-1.8	-165.1	165.1	138.9	26.14	6.316 CC, ES

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 507H
Project:	Hat Mesa	TVD Reference:	WELL @ 3694.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3694.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 507H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 507H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 507H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 503H - Anderson Fed Com 503H - Anderson Fed Com 503H - 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
5,100.0	5,100.0	5,105.1	5,105.1	13.2	13.2	162.19	-2.6	-164.5	165.4	139.1	26.33	6.283	
5,200.0	5,200.0	5,206.7	5,206.6	13.3	13.2	161.66	-4.9	-163.0	166.5	140.0	26.50	6.282	
5,300.0	5,299.9	5,308.2	5,308.0	13.4	13.3	160.81	-8.7	-160.6	168.3	141.6	26.68	6.306	
5,400.0	5,399.7	5,408.1	5,407.8	13.5	13.4	159.91	-13.3	-157.6	171.3	144.4	26.86	6.375	
5,500.0	5,499.4	5,508.0	5,507.5	13.7	13.5	159.24	-17.8	-154.6	175.9	148.8	27.10	6.493	
5,600.0	5,598.9	5,607.8	5,607.2	13.9	13.7	158.80	-22.4	-151.7	182.3	154.9	27.35	6.662	
5,700.0	5,698.4	5,707.5	5,706.8	14.1	13.8	158.50	-26.9	-148.7	189.4	161.8	27.64	6.852	
5,800.0	5,797.8	5,807.3	5,806.4	14.3	14.0	158.23	-31.4	-145.8	196.5	168.6	27.94	7.034	
5,900.0	5,897.3	5,907.0	5,906.0	14.5	14.2	157.98	-36.0	-142.8	203.7	175.4	28.27	7.206	
6,000.0	5,996.7	6,006.7	6,005.6	14.8	14.4	157.74	-40.5	-139.9	210.8	182.2	28.61	7.369	
6,100.0	6,096.2	6,106.5	6,105.2	15.1	14.6	157.52	-45.1	-136.9	218.0	189.0	28.97	7.524	
6,200.0	6,195.6	6,206.2	6,204.7	15.4	14.9	157.31	-49.6	-134.0	225.1	195.8	29.35	7.671	
6,300.0	6,295.1	6,306.0	6,304.3	15.7	15.1	157.12	-54.1	-131.0	232.3	202.6	29.74	7.810	
6,400.0	6,394.5	6,405.7	6,403.9	16.0	15.4	156.94	-58.7	-128.1	239.5	209.3	30.15	7.942	
6,500.0	6,494.0	6,505.4	6,503.5	16.3	15.6	156.77	-63.2	-125.1	246.6	216.1	30.58	8.066	
6,600.0	6,593.4	6,605.2	6,603.1	16.7	15.9	156.60	-67.8	-122.2	253.8	222.8	31.02	8.183	
6,700.0	6,692.9	6,704.9	6,702.7	17.0	16.2	156.45	-72.3	-119.2	261.0	229.5	31.47	8.293	
6,800.0	6,792.3	6,804.7	6,802.3	17.4	16.5	156.31	-76.8	-116.3	268.1	236.2	31.93	8.397	
6,900.0	6,891.8	6,904.4	6,901.9	17.8	16.8	156.17	-81.4	-113.3	275.3	242.9	32.41	8.495	
7,000.0	6,991.2	7,004.1	7,001.5	18.2	17.1	156.04	-85.9	-110.4	282.5	249.6	32.89	8.588	
7,100.0	7,090.7	7,103.9	7,101.1	18.6	17.4	155.91	-90.4	-107.4	289.7	256.3	33.39	8.675	
7,200.0	7,190.1	7,203.6	7,200.7	19.0	17.7	155.80	-95.0	-104.5	296.8	262.9	33.90	8.757	
7,300.0	7,289.6	7,303.4	7,300.3	19.4	18.0	155.68	-99.5	-101.5	304.0	269.6	34.41	8.834	
7,400.0	7,389.0	7,403.1	7,399.9	19.8	18.4	155.58	-104.1	-98.6	311.2	276.3	34.94	8.907	
7,500.0	7,488.5	7,502.8	7,499.5	20.3	18.7	155.47	-108.6	-95.6	318.4	282.9	35.47	8.975	
7,600.0	7,587.9	7,602.6	7,599.1	20.7	19.1	155.38	-113.1	-92.7	325.6	289.5	36.01	9.040	
7,700.0	7,687.4	7,702.3	7,698.6	21.1	19.4	155.28	-117.7	-89.7	332.7	296.2	36.56	9.100	
7,800.0	7,786.9	7,802.1	7,798.2	21.6	19.8	155.19	-122.2	-86.8	339.9	302.8	37.12	9.158	
7,900.0	7,886.3	7,901.8	7,897.8	22.0	20.2	155.11	-126.8	-83.8	347.1	309.4	37.68	9.211	
8,000.0	7,985.8	8,001.5	7,997.4	22.5	20.5	155.02	-131.3	-80.9	354.3	316.0	38.25	9.262	
8,100.0	8,085.2	8,101.3	8,097.0	23.0	20.9	154.94	-135.8	-77.9	361.5	322.6	38.83	9.310	
8,200.0	8,184.7	8,201.0	8,196.6	23.4	21.3	154.87	-140.4	-75.0	368.7	329.2	39.41	9.355	
8,300.0	8,284.1	8,300.8	8,296.2	23.9	21.7	154.79	-144.9	-72.0	375.8	335.8	39.99	9.397	
8,400.0	8,383.6	8,400.5	8,395.8	24.4	22.1	154.72	-149.4	-69.1	383.0	342.4	40.59	9.437	
8,500.0	8,483.0	8,500.2	8,495.4	24.9	22.5	154.66	-154.0	-66.1	390.2	349.0	41.18	9.475	
8,600.0	8,582.5	8,600.0	8,595.0	25.3	22.9	154.59	-158.5	-63.2	397.4	355.6	41.78	9.511	
8,700.0	8,681.9	8,699.7	8,694.6	25.8	23.3	154.53	-163.1	-60.2	404.6	362.2	42.39	9.544	
8,800.0	8,781.4	8,799.5	8,794.2	26.3	23.7	154.47	-167.6	-57.3	411.8	368.8	43.00	9.576	
8,900.0	8,880.8	8,899.2	8,893.8	26.8	24.1	154.41	-172.1	-54.3	419.0	375.4	43.62	9.606	
9,000.0	8,980.3	8,998.9	8,993.4	27.3	24.5	154.35	-176.7	-51.4	426.2	381.9	44.23	9.634	
9,100.0	9,079.7	9,098.7	9,093.0	27.8	24.9	154.30	-181.2	-48.4	433.3	388.5	44.86	9.661	
9,205.8	9,185.0	9,204.3	9,198.4	28.3	25.3	154.24	-186.0	-45.3	441.0	395.4	45.52	9.686	
9,225.0	9,204.0	9,223.3	9,217.4	28.4	25.4	153.48	-186.9	-44.8	442.7	397.0	45.65	9.698	
9,250.0	9,228.6	9,248.1	9,242.2	28.6	25.5	152.91	-188.0	-44.0	445.9	400.1	45.85	9.726	
9,275.0	9,253.0	9,272.7	9,266.7	28.8	25.6	152.55	-189.1	-43.3	450.3	404.2	46.08	9.771	
9,300.0	9,277.1	9,297.0	9,291.0	28.9	25.7	152.29	-190.2	-42.6	455.8	409.5	46.34	9.836	
9,325.0	9,300.7	9,321.0	9,314.9	29.1	25.8	152.09	-191.3	-41.9	462.5	415.9	46.62	9.919	
9,350.0	9,323.9	9,344.5	9,338.4	29.3	25.9	151.91	-192.4	-41.2	470.2	423.3	46.93	10.021	
9,375.0	9,346.6	9,367.6	9,361.5	29.5	26.0	151.74	-193.5	-40.5	479.1	431.9	47.24	10.141	
9,400.0	9,368.7	9,390.2	9,384.1	29.6	26.1	151.56	-194.5	-39.8	489.1	441.5	47.58	10.280	
9,425.0	9,390.2	9,411.6	9,405.4	29.8	26.2	151.34	-195.4	-39.2	500.1	452.2	47.92	10.438	
9,450.0	9,411.0	9,432.0	9,425.8	30.0	26.3	151.09	-196.3	-38.6	512.3	464.0	48.26	10.614	

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 507H
Project:	Hat Mesa	TVD Reference:	WELL @ 3694.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3694.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 507H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 507H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 507H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 503H - Anderson Fed Com 503H - Anderson Fed Com 503H - 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
9,475.0	9,431.0	9,451.7	9,445.5	30.2	26.3	150.79	-197.1	-38.2	525.5	476.9	48.62	10.808	
9,500.0	9,450.2	9,470.6	9,464.4	30.3	26.4	150.41	-197.7	-37.7	539.7	490.7	48.98	11.019	
9,525.0	9,468.5	9,488.6	9,482.4	30.5	26.5	149.96	-198.3	-37.3	555.0	505.6	49.34	11.248	
9,550.0	9,486.0	9,505.8	9,499.5	30.7	26.6	149.39	-198.8	-37.0	571.2	521.5	49.70	11.493	
9,571.0	9,499.9	9,519.4	9,513.1	30.8	26.6	148.81	-199.2	-36.7	585.6	535.6	49.99	11.714	
9,575.0	9,502.5	9,521.9	9,515.6	30.8	26.6	149.77	-199.3	-36.7	588.4	538.3	50.05	11.756	
9,600.0	9,518.7	9,537.7	9,531.4	30.9	26.7	155.88	-199.7	-36.4	606.1	555.7	50.36	12.035	
9,625.0	9,535.2	9,553.7	9,547.4	31.1	26.7	162.04	-200.1	-36.2	624.1	573.4	50.63	12.326	
9,650.0	9,551.7	9,569.6	9,563.3	31.2	26.8	168.19	-200.4	-36.0	642.3	591.4	50.87	12.626	
9,675.0	9,568.4	9,585.6	9,579.2	31.3	26.8	174.28	-200.7	-35.8	660.6	609.6	51.07	12.935	
9,700.0	9,585.0	9,600.0	9,593.7	31.5	26.9	-179.71	-201.0	-35.6	679.1	627.8	51.23	13.254	
9,725.0	9,601.7	9,617.3	9,610.9	31.6	26.9	-173.86	-201.2	-35.4	697.5	646.2	51.37	13.579	
9,750.0	9,618.3	9,633.0	9,626.6	31.7	27.0	-168.17	-201.4	-35.3	716.0	664.5	51.47	13.911	
9,775.0	9,634.8	9,648.5	9,642.2	31.8	27.0	-162.68	-201.5	-35.2	734.4	682.8	51.54	14.248	
9,800.0	9,651.2	9,663.9	9,657.6	32.0	27.0	-157.41	-201.7	-35.2	752.7	701.1	51.59	14.591	
9,825.0	9,667.4	9,679.1	9,672.8	32.1	27.0	-152.37	-201.7	-35.1	770.9	719.2	51.61	14.937	
9,850.0	9,683.3	9,694.0	9,687.7	32.2	27.1	-147.57	-201.8	-35.1	788.9	737.3	51.60	15.288	
9,875.0	9,699.0	9,708.8	9,702.5	32.3	27.1	-143.02	-201.8	-35.1	806.7	755.2	51.57	15.643	
9,900.0	9,714.3	9,724.1	9,717.8	32.5	27.1	-138.76	-201.8	-35.1	824.4	772.9	51.52	16.003	
9,925.0	9,729.3	9,745.8	9,739.4	32.6	27.1	-135.08	-201.5	-35.0	841.8	790.3	51.47	16.354	
9,950.0	9,743.9	9,771.9	9,765.5	32.7	27.0	-131.85	-199.9	-34.8	858.8	807.3	51.47	16.686	
9,975.0	9,758.0	9,800.0	9,793.4	32.9	27.0	-128.91	-196.6	-34.3	875.3	823.8	51.48	17.002	
10,000.0	9,771.6	9,830.7	9,823.6	33.0	26.9	-126.28	-191.1	-33.5	891.2	839.7	51.53	17.296	
10,025.0	9,784.7	9,864.3	9,856.2	33.1	26.8	-123.94	-182.9	-32.3	906.6	854.9	51.62	17.564	
10,050.0	9,797.3	9,901.4	9,891.4	33.3	26.6	-121.90	-171.3	-30.6	921.2	869.4	51.76	17.797	
10,075.0	9,809.3	9,942.7	9,929.3	33.4	26.5	-120.12	-155.2	-28.3	935.0	883.0	51.99	17.986	
10,100.0	9,820.6	9,988.8	9,969.8	33.6	26.4	-118.58	-133.5	-25.2	948.0	895.6	52.31	18.121	
10,125.0	9,831.3	10,040.3	10,012.3	33.7	26.2	-117.24	-104.8	-21.0	959.8	907.1	52.77	18.189	
10,150.0	9,841.3	10,097.5	10,055.6	33.8	26.1	-116.05	-67.8	-15.6	970.5	917.1	53.39	18.179	
10,175.0	9,850.6	10,160.6	10,097.8	34.0	25.9	-114.93	-21.4	-8.9	979.7	925.5	54.19	18.081	
10,200.0	9,859.1	10,229.0	10,136.1	34.2	25.8	-113.79	34.6	-0.8	987.4	932.2	55.18	17.896	
10,225.0	9,866.9	10,301.3	10,167.4	34.3	25.8	-112.58	99.1	8.6	993.4	937.1	56.33	17.635	
10,250.0	9,873.9	10,375.5	10,188.9	34.5	25.9	-111.23	169.2	18.8	997.6	940.0	57.59	17.322	
10,275.0	9,880.1	10,449.0	10,199.1	34.6	26.1	-109.76	241.2	29.2	999.9	941.0	58.87	16.985	
10,375.0	9,896.6	10,547.6	10,200.0	35.3	26.5	-107.29	338.8	42.8	999.2	939.1	60.14	16.616	
10,400.0	9,898.6	10,566.3	10,200.0	35.4	26.6	-107.19	357.4	45.0	997.7	937.4	60.36	16.531	
10,425.0	9,899.7	10,585.0	10,200.0	35.6	26.7	-107.27	376.0	47.1	995.7	935.1	60.58	16.436	
10,444.5	9,900.0	10,600.0	10,200.0	35.7	26.7	-107.46	390.9	48.8	993.8	933.0	60.78	16.352	
10,500.0	9,900.0	10,641.1	10,200.0	36.0	27.0	-107.54	431.7	52.8	988.3	926.9	61.39	16.099	
10,600.0	9,900.0	10,716.1	10,200.0	36.7	27.5	-107.65	506.6	58.6	980.3	917.8	62.56	15.670	
10,700.0	9,900.0	10,800.0	10,200.0	37.4	28.2	-107.73	590.4	62.8	974.9	910.8	64.09	15.211	
10,800.0	9,900.0	10,867.0	10,200.0	38.2	28.8	-107.77	657.3	64.4	971.9	906.7	65.20	14.906	
10,900.0	9,900.0	10,950.4	10,200.0	39.0	29.5	-107.77	740.7	64.4	971.3	904.5	66.82	14.537	
11,000.0	9,900.0	11,050.4	10,200.0	39.9	30.4	-107.77	840.7	63.8	971.3	902.2	69.05	14.066	
11,100.0	9,900.0	11,150.4	10,200.0	40.9	31.5	-107.77	940.7	63.2	971.3	899.8	71.43	13.597	
11,200.0	9,900.0	11,250.4	10,200.0	41.9	32.6	-107.77	1,040.7	62.7	971.2	897.3	73.94	13.136	
11,300.0	9,900.0	11,350.4	10,200.0	43.0	33.9	-107.78	1,140.7	62.1	971.2	894.7	76.56	12.685	
11,400.0	9,900.0	11,450.4	10,200.0	44.2	35.2	-107.78	1,240.7	61.5	971.2	891.9	79.29	12.249	
11,500.0	9,900.0	11,550.4	10,200.0	45.4	36.7	-107.78	1,340.7	60.9	971.2	889.1	82.11	11.828	
11,600.0	9,900.0	11,650.4	10,200.0	46.6	38.1	-107.78	1,440.7	60.3	971.2	886.2	85.02	11.424	
11,700.0	9,900.0	11,750.4	10,200.0	47.9	39.7	-107.78	1,540.7	59.8	971.2	883.2	88.00	11.037	
11,800.0	9,900.0	11,850.4	10,200.0	49.2	41.3	-107.78	1,640.7	59.2	971.2	880.1	91.04	10.667	

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 507H
Project:	Hat Mesa	TVD Reference:	WELL @ 3694.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3694.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 507H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 507H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 507H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 503H - Anderson Fed Com 503H - Anderson Fed Com 503H - Prelim 1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance			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	
11,900.0	9,900.0	11,950.4	10,200.0	50.6	42.9	-107.78	1,740.7	58.6	971.1	877.0	94.15	10.314	
12,000.0	9,900.0	12,050.4	10,200.0	52.0	44.6	-107.78	1,840.7	58.0	971.1	873.8	97.32	9.979	
12,100.0	9,900.0	12,150.4	10,200.0	53.5	46.3	-107.78	1,940.7	57.4	971.1	870.6	100.53	9.660	
12,200.0	9,900.0	12,250.4	10,200.0	55.0	48.0	-107.78	2,040.7	56.9	971.1	867.3	103.80	9.356	
12,300.0	9,900.0	12,350.4	10,200.0	56.5	49.8	-107.78	2,140.7	56.3	971.1	864.0	107.10	9.067	
12,400.0	9,900.0	12,450.4	10,200.0	58.0	51.6	-107.78	2,240.7	55.7	971.1	860.6	110.44	8.793	
12,500.0	9,900.0	12,550.4	10,200.0	59.6	53.4	-107.78	2,340.7	55.1	971.1	857.2	113.82	8.532	
12,600.0	9,900.0	12,650.4	10,200.0	61.2	55.2	-107.78	2,440.7	54.6	971.0	853.8	117.22	8.284	
12,700.0	9,900.0	12,750.4	10,200.0	62.8	57.0	-107.78	2,540.7	54.0	971.0	850.4	120.66	8.048	
12,800.0	9,900.0	12,850.4	10,200.0	64.5	58.8	-107.78	2,640.7	53.4	971.0	846.9	124.12	7.823	
12,900.0	9,900.0	12,950.4	10,200.0	66.2	60.7	-107.78	2,740.7	52.8	971.0	843.4	127.61	7.609	
13,000.0	9,900.0	13,050.4	10,200.0	67.8	62.6	-107.78	2,840.7	52.2	971.0	839.9	131.12	7.405	
13,100.0	9,900.0	13,150.4	10,200.0	69.5	64.4	-107.78	2,940.7	51.7	971.0	836.3	134.66	7.211	
13,200.0	9,900.0	13,250.4	10,200.0	71.3	66.3	-107.78	3,040.7	51.1	971.0	832.8	138.21	7.025	
13,300.0	9,900.0	13,350.4	10,200.0	73.0	68.2	-107.78	3,140.7	50.5	971.0	829.2	141.78	6.849	
13,400.0	9,900.0	13,450.4	10,200.0	74.7	70.1	-107.78	3,240.7	49.9	970.9	825.6	145.36	6.679	
13,500.0	9,900.0	13,550.4	10,200.0	76.5	72.0	-107.78	3,340.7	49.3	970.9	822.0	148.96	6.518	
13,600.0	9,900.0	13,650.4	10,200.0	78.3	73.9	-107.78	3,440.7	48.8	970.9	818.3	152.58	6.363	
13,700.0	9,900.0	13,750.4	10,200.0	80.1	75.8	-107.78	3,540.7	48.2	970.9	814.7	156.21	6.216	
13,800.0	9,900.0	13,850.4	10,200.0	81.9	77.8	-107.78	3,640.7	47.6	970.9	811.0	159.85	6.074	
13,900.0	9,900.0	13,950.4	10,200.0	83.7	79.7	-107.78	3,740.7	47.0	970.9	807.4	163.50	5.938	
14,000.0	9,900.0	14,050.4	10,200.0	85.5	81.6	-107.78	3,840.7	46.4	970.9	803.7	167.16	5.808	
14,100.0	9,900.0	14,150.4	10,200.0	87.3	83.6	-107.78	3,940.7	45.9	970.8	800.0	170.84	5.683	
14,200.0	9,900.0	14,250.4	10,200.0	89.1	85.5	-107.78	4,040.7	45.3	970.8	796.3	174.52	5.563	
14,300.0	9,900.0	14,350.4	10,200.0	91.0	87.4	-107.78	4,140.7	44.7	970.8	792.6	178.21	5.448	
14,400.0	9,900.0	14,450.4	10,200.0	92.8	89.4	-107.78	4,240.7	44.1	970.8	788.9	181.91	5.337	
14,500.0	9,900.0	14,550.4	10,200.0	94.7	91.3	-107.78	4,340.7	43.6	970.8	785.2	185.62	5.230	
14,600.0	9,900.0	14,650.4	10,200.0	96.5	93.3	-107.78	4,440.7	43.0	970.8	781.4	189.34	5.127	
14,700.0	9,900.0	14,750.4	10,200.0	98.4	95.3	-107.78	4,540.7	42.4	970.8	777.7	193.06	5.028	
14,800.0	9,900.0	14,850.4	10,200.0	100.3	97.2	-107.78	4,640.7	41.8	970.7	774.0	196.79	4.933	
14,900.0	9,900.0	14,950.4	10,200.0	102.2	99.2	-107.78	4,740.7	41.2	970.7	770.2	200.53	4.841	
15,000.0	9,900.0	15,050.4	10,200.0	104.0	101.1	-107.78	4,840.7	40.7	970.7	766.4	204.27	4.752	
15,100.0	9,900.0	15,150.4	10,200.0	105.9	103.1	-107.79	4,940.7	40.1	970.7	762.7	208.02	4.666	
15,200.0	9,900.0	15,250.4	10,200.0	107.8	105.1	-107.79	5,040.7	39.5	970.7	758.9	211.77	4.584	
15,300.0	9,900.0	15,350.4	10,200.0	109.7	107.0	-107.79	5,140.7	38.9	970.7	755.1	215.53	4.504	
15,400.0	9,900.0	15,450.4	10,200.0	111.6	109.0	-107.79	5,240.7	38.3	970.7	751.4	219.29	4.426	
15,500.0	9,900.0	15,550.4	10,200.0	113.5	111.0	-107.79	5,340.7	37.8	970.6	747.6	223.06	4.352	
15,600.0	9,900.0	15,650.4	10,200.0	115.4	113.0	-107.79	5,440.7	37.2	970.6	743.8	226.83	4.279	
15,700.0	9,900.0	15,750.4	10,200.0	117.4	114.9	-107.79	5,540.7	36.6	970.6	740.0	230.60	4.209	
15,800.0	9,900.0	15,850.4	10,200.0	119.3	116.9	-107.79	5,640.7	36.0	970.6	736.2	234.38	4.141	
15,900.0	9,900.0	15,950.4	10,200.0	121.2	118.9	-107.79	5,740.7	35.4	970.6	732.4	238.17	4.075	
16,000.0	9,900.0	16,050.4	10,200.0	123.1	120.9	-107.79	5,840.6	34.9	970.6	728.6	241.96	4.011	
16,100.0	9,900.0	16,150.4	10,200.0	125.0	122.8	-107.79	5,940.6	34.3	970.6	724.8	245.75	3.949	
16,200.0	9,900.0	16,250.4	10,200.0	127.0	124.8	-107.79	6,040.6	33.7	970.5	721.0	249.54	3.889	
16,300.0	9,900.0	16,350.4	10,200.0	128.9	126.8	-107.79	6,140.6	33.1	970.5	717.2	253.34	3.831	
16,400.0	9,900.0	16,450.4	10,200.0	130.8	128.8	-107.79	6,240.6	32.6	970.5	713.4	257.14	3.774	
16,500.0	9,900.0	16,550.4	10,200.0	132.8	130.8	-107.79	6,340.6	32.0	970.5	709.6	260.94	3.719	
16,600.0	9,900.0	16,650.4	10,200.0	134.7	132.8	-107.79	6,440.6	31.4	970.5	705.7	264.74	3.666	
16,700.0	9,900.0	16,750.4	10,200.0	136.7	134.8	-107.79	6,540.6	30.8	970.5	701.9	268.55	3.614	
16,800.0	9,900.0	16,850.4	10,200.0	138.6	136.7	-107.79	6,640.6	30.2	970.5	698.1	272.36	3.563	
16,823.6	9,900.0	16,874.0	10,200.0	139.1	137.2	-107.79	6,664.2	30.1	970.5	697.2	273.26	3.551	
16,846.5	9,900.0	16,893.7	10,200.0	139.5	137.6	-107.79	6,683.9	30.0	970.6	696.7	274.00	3.543 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 507H
Project:	Hat Mesa	TVD Reference:	WELL @ 3694.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3694.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 507H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 507H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 507H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 503H - Anderson Fed Com 503H - Anderson Fed Com 503H - Prelim 1													Offset Site Error: 0.0 usft
Survey Program: 0-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	
16,846.9	9,900.0	16,893.7	10,200.0	139.5	137.6	-107.79	6,683.9	30.0	970.6	696.7	273.99	3.543	



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 507H
Project:	Hat Mesa	TVD Reference:	WELL @ 3694.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3694.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 507H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 507H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 507H - 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
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
0.0	0.0	3.5	3.5	0.0	0.0	-90.69	-1.6	-131.1	131.1				
100.0	100.0	103.5	103.5	0.5	0.6	-90.69	-1.6	-131.1	131.1	130.0	1.11	118.567	
200.0	200.0	203.5	203.5	1.7	1.7	-90.69	-1.6	-131.1	131.1	127.7	3.45	38.008	
300.0	300.0	303.5	303.5	2.4	2.4	-90.69	-1.6	-131.1	131.1	126.3	4.84	27.075	
400.0	400.0	403.5	403.5	3.0	3.0	-90.69	-1.6	-131.1	131.1	125.2	5.93	22.131	
500.0	500.0	503.5	503.5	3.4	3.4	-90.69	-1.6	-131.1	131.1	124.3	6.85	19.156	
600.0	600.0	603.5	603.5	3.8	3.8	-90.69	-1.6	-131.1	131.1	123.5	7.66	17.114	
700.0	700.0	703.5	703.5	4.2	4.2	-90.69	-1.6	-131.1	131.1	122.7	8.41	15.599	
800.0	800.0	803.5	803.5	4.5	4.6	-90.69	-1.6	-131.1	131.1	122.0	9.10	14.417	
900.0	900.0	903.5	903.5	4.9	4.9	-90.69	-1.6	-131.1	131.1	121.4	9.74	13.462	
1,000.0	1,000.0	1,003.5	1,003.5	5.2	5.2	-90.69	-1.6	-131.1	131.1	120.8	10.35	12.668	
1,100.0	1,100.0	1,103.5	1,103.5	5.5	5.5	-90.69	-1.6	-131.1	131.1	120.2	10.93	11.994	
1,200.0	1,200.0	1,203.5	1,203.5	5.7	5.7	-90.69	-1.6	-131.1	131.1	119.6	11.49	11.413	
1,300.0	1,300.0	1,303.5	1,303.5	6.0	6.0	-90.69	-1.6	-131.1	131.1	119.1	12.02	10.906	
1,400.0	1,400.0	1,403.5	1,403.5	6.3	6.3	-90.69	-1.6	-131.1	131.1	118.6	12.54	10.457	
1,500.0	1,500.0	1,503.5	1,503.5	6.5	6.5	-90.69	-1.6	-131.1	131.1	118.1	13.04	10.056	
1,600.0	1,600.0	1,603.5	1,603.5	6.8	6.8	-90.69	-1.6	-131.1	131.1	117.6	13.53	9.695	
1,700.0	1,700.0	1,703.5	1,703.5	7.0	7.0	-90.69	-1.6	-131.1	131.1	117.1	14.00	9.368	
1,800.0	1,800.0	1,803.5	1,803.5	7.2	7.2	-90.69	-1.6	-131.1	131.1	116.7	14.46	9.070	
1,900.0	1,900.0	1,903.5	1,903.5	7.4	7.5	-90.69	-1.6	-131.1	131.1	116.2	14.91	8.797	
2,000.0	2,000.0	2,003.5	2,003.5	7.7	7.7	-90.69	-1.6	-131.1	131.1	115.8	15.35	8.545	
2,100.0	2,100.0	2,103.5	2,103.5	7.9	7.9	-90.69	-1.6	-131.1	131.1	115.4	15.78	8.311	
2,200.0	2,200.0	2,203.5	2,203.5	8.1	8.1	-90.69	-1.6	-131.1	131.1	114.9	16.20	8.095	
2,300.0	2,300.0	2,303.5	2,303.5	8.3	8.3	-90.69	-1.6	-131.1	131.1	114.5	16.62	7.893	
2,400.0	2,400.0	2,403.5	2,403.5	8.5	8.5	-90.69	-1.6	-131.1	131.1	114.1	17.02	7.703	
2,500.0	2,500.0	2,503.5	2,503.5	8.7	8.7	-90.69	-1.6	-131.1	131.1	113.7	17.42	7.526	
2,600.0	2,600.0	2,603.5	2,603.5	8.9	8.9	-90.69	-1.6	-131.1	131.1	113.3	17.82	7.359	
2,700.0	2,700.0	2,703.5	2,703.5	9.1	9.1	-90.69	-1.6	-131.1	131.1	112.9	18.21	7.202	
2,800.0	2,800.0	2,803.5	2,803.5	9.3	9.3	-90.69	-1.6	-131.1	131.1	112.5	18.59	7.053	
2,900.0	2,900.0	2,903.5	2,903.5	9.5	9.5	-90.69	-1.6	-131.1	131.1	112.2	18.97	6.912	
3,000.0	3,000.0	3,003.5	3,003.5	9.7	9.7	-90.69	-1.6	-131.1	131.1	111.8	19.35	6.779	
3,100.0	3,100.0	3,103.5	3,103.5	9.9	9.9	-90.69	-1.6	-131.1	131.1	111.4	19.72	6.651	
3,200.0	3,200.0	3,203.5	3,203.5	10.0	10.0	-90.69	-1.6	-131.1	131.1	111.1	20.08	6.530	
3,300.0	3,300.0	3,303.5	3,303.5	10.2	10.2	-90.69	-1.6	-131.1	131.1	110.7	20.44	6.415	
3,400.0	3,400.0	3,403.5	3,403.5	10.4	10.4	-90.69	-1.6	-131.1	131.1	110.3	20.80	6.305	
3,500.0	3,500.0	3,503.5	3,503.5	10.6	10.6	-90.69	-1.6	-131.1	131.1	110.0	21.15	6.199	
3,600.0	3,600.0	3,603.5	3,603.5	10.7	10.8	-90.69	-1.6	-131.1	131.1	109.6	21.51	6.098	
3,700.0	3,700.0	3,703.5	3,703.5	10.9	10.9	-90.69	-1.6	-131.1	131.1	109.3	21.85	6.001	
3,800.0	3,800.0	3,803.5	3,803.5	11.1	11.1	-90.69	-1.6	-131.1	131.1	108.9	22.20	5.908	
3,900.0	3,900.0	3,903.5	3,903.5	11.3	11.3	-90.69	-1.6	-131.1	131.1	108.6	22.54	5.818	
4,000.0	4,000.0	4,003.5	4,003.5	11.4	11.4	-90.69	-1.6	-131.1	131.1	108.3	22.88	5.732	
4,100.0	4,100.0	4,103.5	4,103.5	11.6	11.6	-90.69	-1.6	-131.1	131.1	107.9	23.21	5.649	
4,200.0	4,200.0	4,203.5	4,203.5	11.8	11.8	-90.69	-1.6	-131.1	131.1	107.6	23.55	5.569	
4,300.0	4,300.0	4,303.5	4,303.5	11.9	11.9	-90.69	-1.6	-131.1	131.1	107.3	23.88	5.492	
4,400.0	4,400.0	4,403.5	4,403.5	12.1	12.1	-90.69	-1.6	-131.1	131.1	106.9	24.21	5.418	
4,500.0	4,500.0	4,503.5	4,503.5	12.3	12.3	-90.69	-1.6	-131.1	131.1	106.6	24.53	5.346	
4,600.0	4,600.0	4,603.5	4,603.5	12.4	12.4	-90.69	-1.6	-131.1	131.1	106.3	24.86	5.276	
4,700.0	4,700.0	4,703.5	4,703.5	12.6	12.6	-90.69	-1.6	-131.1	131.1	106.0	25.18	5.209	
4,800.0	4,800.0	4,803.5	4,803.5	12.7	12.8	-90.69	-1.6	-131.1	131.1	105.6	25.50	5.143	
4,900.0	4,900.0	4,903.5	4,903.5	12.9	12.9	-90.69	-1.6	-131.1	131.1	105.3	25.81	5.080	
5,000.0	5,000.0	5,003.5	5,003.5	13.1	13.1	-90.69	-1.6	-131.1	131.1	105.0	26.13	5.019 CC, ES	
5,100.0	5,100.0	5,103.5	5,103.5	13.2	13.2	162.43	-1.6	-131.1	132.0	105.6	26.40	4.999 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 507H
Project:	Hat Mesa	TVD Reference:	WELL @ 3694.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3694.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 507H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 507H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 507H - 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			Offset Wellbore Centre		Distance				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	
5,200.0	5,200.0	5,203.5	5,203.5	13.3	13.4	162.75	-1.6	-131.1	134.5	107.8	26.65	5.045	
5,300.0	5,299.9	5,304.9	5,304.9	13.4	13.5	162.97	-2.3	-130.6	138.1	111.2	26.86	5.140	
5,400.0	5,399.7	5,406.3	5,406.2	13.5	13.5	162.80	-4.5	-128.9	142.3	115.2	27.06	5.257	
5,500.0	5,499.4	5,507.6	5,507.4	13.7	13.6	162.28	-8.2	-126.2	147.1	119.8	27.29	5.390	
5,600.0	5,598.9	5,607.4	5,607.1	13.9	13.8	161.77	-12.4	-123.0	153.2	125.6	27.55	5.560	
5,700.0	5,698.4	5,707.1	5,706.7	14.1	13.9	161.41	-16.6	-119.9	160.0	132.2	27.83	5.751	
5,800.0	5,797.8	5,806.9	5,806.3	14.3	14.0	161.08	-20.8	-116.7	166.9	138.8	28.13	5.934	
5,900.0	5,897.3	5,906.7	5,906.0	14.5	14.2	160.78	-25.0	-113.6	173.8	145.3	28.45	6.108	
6,000.0	5,996.7	6,006.4	6,005.6	14.8	14.3	160.50	-29.2	-110.4	180.7	151.9	28.80	6.274	
6,100.0	6,096.2	6,106.2	6,105.2	15.1	14.5	160.24	-33.4	-107.3	187.6	158.4	29.17	6.431	
6,200.0	6,195.6	6,205.9	6,204.8	15.4	14.7	160.00	-37.5	-104.1	194.5	164.9	29.55	6.581	
6,300.0	6,295.1	6,305.7	6,304.4	15.7	14.9	159.78	-41.7	-101.0	201.4	171.4	29.95	6.723	
6,400.0	6,394.5	6,405.5	6,404.1	16.0	15.2	159.57	-45.9	-97.9	208.3	177.9	30.37	6.858	
6,500.0	6,494.0	6,505.2	6,503.7	16.3	15.4	159.37	-50.1	-94.7	215.2	184.4	30.81	6.985	
6,600.0	6,593.4	6,605.0	6,603.3	16.7	15.6	159.19	-54.3	-91.6	222.1	190.9	31.26	7.105	
6,700.0	6,692.9	6,704.7	6,702.9	17.0	15.9	159.02	-58.5	-88.4	229.0	197.3	31.72	7.219	
6,800.0	6,792.3	6,804.5	6,802.6	17.4	16.2	158.85	-62.7	-85.3	235.9	203.7	32.20	7.327	
6,900.0	6,891.8	6,904.3	6,902.2	17.8	16.4	158.70	-66.9	-82.1	242.9	210.2	32.69	7.428	
7,000.0	6,991.2	7,004.0	7,001.8	18.2	16.7	158.56	-71.1	-79.0	249.8	216.6	33.20	7.524	
7,100.0	7,090.7	7,103.8	7,101.4	18.6	17.0	158.42	-75.3	-75.8	256.7	223.0	33.71	7.614	
7,200.0	7,190.1	7,203.5	7,201.0	19.0	17.3	158.29	-79.5	-72.7	263.6	229.4	34.24	7.699	
7,300.0	7,289.6	7,303.3	7,300.7	19.4	17.6	158.17	-83.7	-69.5	270.5	235.8	34.77	7.780	
7,400.0	7,389.0	7,403.0	7,400.3	19.8	17.9	158.05	-87.9	-66.4	277.5	242.1	35.32	7.856	
7,500.0	7,488.5	7,502.8	7,499.9	20.3	18.3	157.94	-92.1	-63.2	284.4	248.5	35.87	7.927	
7,600.0	7,587.9	7,602.6	7,599.5	20.7	18.6	157.83	-96.3	-60.1	291.3	254.9	36.44	7.995	
7,700.0	7,687.4	7,702.3	7,699.1	21.1	18.9	157.73	-100.5	-56.9	298.2	261.2	37.01	8.058	
7,800.0	7,786.9	7,802.1	7,798.8	21.6	19.3	157.64	-104.7	-53.8	305.2	267.6	37.59	8.119	
7,900.0	7,886.3	7,901.8	7,898.4	22.0	19.6	157.54	-108.9	-50.7	312.1	273.9	38.17	8.175	
8,000.0	7,985.8	8,001.6	7,998.0	22.5	20.0	157.45	-113.1	-47.5	319.0	280.2	38.77	8.229	
8,100.0	8,085.2	8,101.4	8,097.6	23.0	20.3	157.37	-117.3	-44.4	325.9	286.6	39.37	8.279	
8,200.0	8,184.7	8,201.1	8,197.2	23.4	20.7	157.29	-121.5	-41.2	332.9	292.9	39.98	8.327	
8,300.0	8,284.1	8,300.9	8,296.9	23.9	21.1	157.21	-125.7	-38.1	339.8	299.2	40.59	8.372	
8,400.0	8,383.6	8,400.6	8,396.5	24.4	21.5	157.14	-129.9	-34.9	346.7	305.5	41.21	8.414	
8,500.0	8,483.0	8,500.4	8,496.1	24.9	21.8	157.07	-134.1	-31.8	353.7	311.8	41.83	8.454	
8,600.0	8,582.5	8,600.1	8,595.7	25.3	22.2	157.00	-138.2	-28.6	360.6	318.1	42.46	8.492	
8,700.0	8,681.9	8,699.9	8,695.3	25.8	22.6	156.93	-142.4	-25.5	367.5	324.4	43.10	8.528	
8,800.0	8,781.4	8,799.7	8,795.0	26.3	23.0	156.87	-146.6	-22.3	374.5	330.7	43.74	8.561	
8,900.0	8,880.8	8,899.4	8,894.6	26.8	23.4	156.81	-150.8	-19.2	381.4	337.0	44.38	8.593	
9,000.0	8,980.3	8,999.2	8,994.2	27.3	23.8	156.75	-155.0	-16.0	388.3	343.3	45.03	8.624	
9,100.0	9,079.7	9,098.9	9,093.8	27.8	24.2	156.69	-159.2	-12.9	395.3	349.6	45.68	8.652	
9,205.8	9,185.0	9,204.5	9,199.3	28.3	24.6	156.63	-163.7	-9.6	402.6	356.2	46.38	8.680	
9,225.0	9,204.0	9,223.6	9,218.3	28.4	24.7	155.88	-164.5	-9.0	404.3	357.8	46.51	8.691	
9,250.0	9,228.6	9,248.4	9,243.1	28.6	24.8	155.33	-165.5	-8.2	407.5	360.8	46.72	8.721	
9,275.0	9,253.0	9,273.0	9,267.6	28.8	24.9	154.99	-166.5	-7.4	411.9	364.9	46.97	8.770	
9,300.0	9,277.1	9,297.3	9,291.9	28.9	25.0	154.76	-167.6	-6.6	417.4	370.2	47.23	8.838	
9,325.0	9,300.7	9,321.3	9,315.8	29.1	25.1	154.58	-168.6	-5.9	424.1	376.6	47.52	8.925	
9,350.0	9,323.9	9,344.8	9,339.4	29.3	25.2	154.44	-169.6	-5.1	431.9	384.1	47.83	9.031	
9,375.0	9,346.6	9,368.0	9,362.5	29.5	25.3	154.31	-170.5	-4.4	440.9	392.7	48.15	9.157	
9,400.0	9,368.7	9,390.6	9,385.0	29.6	25.4	154.17	-171.5	-3.7	451.0	402.5	48.48	9.301	
9,425.0	9,390.2	9,412.6	9,407.0	29.8	25.4	154.02	-172.4	-3.0	462.1	413.3	48.83	9.464	
9,450.0	9,411.0	9,433.9	9,428.3	30.0	25.5	153.83	-173.3	-2.3	474.4	425.2	49.18	9.645	
9,475.0	9,431.0	9,454.5	9,448.9	30.2	25.6	153.61	-174.2	-1.7	487.6	438.1	49.54	9.844	

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 507H
Project:	Hat Mesa	TVD Reference:	WELL @ 3694.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3694.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 507H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 507H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 507H - 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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Semi Major Axis Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,500.0	9,450.2	9,474.4	9,468.8	30.3	25.7	153.32	-175.0	-1.0	502.0	452.1	49.89	10.060	
9,525.0	9,468.5	9,493.5	9,487.8	30.5	25.8	152.95	-175.8	-0.4	517.3	467.0	50.25	10.294	
9,550.0	9,486.0	9,511.7	9,506.0	30.7	25.8	152.49	-176.6	0.1	533.5	482.9	50.60	10.544	
9,571.0	9,499.9	9,526.3	9,520.6	30.8	25.9	152.02	-177.2	0.6	547.9	497.0	50.89	10.767	
9,575.0	9,502.5	9,528.9	9,523.2	30.8	25.9	152.98	-177.3	0.7	550.7	499.7	50.94	10.810	
9,600.0	9,518.7	9,546.0	9,540.2	30.9	26.0	159.09	-178.0	1.2	568.3	517.1	51.24	11.091	
9,625.0	9,535.2	9,563.1	9,557.4	31.1	26.1	165.16	-178.7	1.8	586.2	534.7	51.51	11.381	
9,650.0	9,551.7	9,580.4	9,574.6	31.2	26.1	171.16	-179.5	2.3	604.2	552.5	51.74	11.678	
9,675.0	9,568.4	9,597.7	9,591.9	31.3	26.2	177.05	-180.2	2.8	622.3	570.3	51.93	11.981	
9,700.0	9,585.0	9,614.9	9,609.1	31.5	26.3	-177.22	-180.9	3.4	640.3	588.2	52.10	12.290	
9,725.0	9,601.7	9,632.1	9,626.3	31.6	26.3	-171.66	-181.7	3.9	658.4	606.1	52.24	12.603	
9,750.0	9,618.3	9,649.2	9,643.3	31.7	26.4	-166.31	-182.4	4.5	676.3	624.0	52.35	12.921	
9,775.0	9,634.8	9,666.1	9,660.2	31.8	26.5	-161.17	-183.1	5.0	694.2	641.8	52.43	13.242	
9,800.0	9,651.2	9,682.8	9,676.9	32.0	26.6	-156.26	-183.8	5.5	712.0	659.5	52.48	13.566	
9,825.0	9,667.4	9,699.3	9,693.3	32.1	26.6	-151.57	-184.5	6.0	729.5	677.0	52.51	13.894	
9,850.0	9,683.3	9,715.4	9,709.5	32.2	26.7	-147.12	-185.2	6.6	747.0	694.5	52.51	14.225	
9,875.0	9,699.0	9,731.3	9,725.3	32.3	26.8	-142.90	-185.8	7.1	764.2	711.7	52.49	14.560	
9,900.0	9,714.3	9,746.7	9,740.7	32.5	26.8	-138.91	-186.5	7.5	781.3	728.8	52.44	14.898	
9,925.0	9,729.3	9,761.7	9,755.7	32.6	26.9	-135.13	-187.1	8.0	798.1	745.7	52.37	15.239	
9,950.0	9,743.9	9,776.2	9,770.2	32.7	26.9	-131.56	-187.7	8.5	814.7	762.5	52.28	15.585	
9,975.0	9,758.0	9,790.3	9,784.2	32.9	27.0	-128.20	-188.3	8.9	831.2	779.0	52.16	15.934	
10,000.0	9,771.6	9,803.8	9,797.7	33.0	27.1	-125.02	-188.9	9.3	847.4	795.3	52.03	16.287	
10,025.0	9,784.7	9,816.7	9,810.6	33.1	27.1	-122.03	-189.4	9.8	863.3	811.5	51.87	16.645	
10,050.0	9,797.3	9,829.0	9,822.8	33.3	27.2	-119.20	-189.9	10.1	879.1	827.4	51.69	17.006	
10,075.0	9,809.3	9,840.6	9,834.5	33.4	27.2	-116.53	-190.4	10.5	894.6	843.1	51.50	17.372	
10,100.0	9,820.6	9,851.5	9,845.4	33.6	27.3	-114.01	-190.9	10.9	909.9	858.6	51.28	17.742	
10,125.0	9,831.3	9,861.8	9,855.6	33.7	27.3	-111.63	-191.3	11.2	924.9	873.8	51.05	18.117	
10,150.0	9,841.3	9,871.3	9,865.1	33.8	27.3	-109.38	-191.7	11.5	939.7	888.9	50.81	18.495	
10,175.0	9,850.6	9,880.0	9,873.8	34.0	27.4	-107.24	-192.1	11.7	954.2	903.7	50.55	18.877	
10,200.0	9,859.1	9,887.9	9,881.7	34.2	27.4	-105.23	-192.4	12.0	968.5	918.2	50.28	19.262	
10,225.0	9,866.9	9,895.0	9,888.8	34.3	27.4	-103.31	-192.7	12.2	982.5	932.5	50.00	19.651	
10,250.0	9,873.9	9,901.3	9,895.1	34.5	27.5	-101.51	-193.0	12.4	996.2	946.5	49.71	20.042	

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 507H
Project:	Hat Mesa	TVD Reference:	WELL @ 3694.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3694.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 507H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 507H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 507H - 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		Minimum	Separation	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)	Separation (usft)		
0.0	0.0	3.5	3.5	0.0	0.0	-90.58	-1.0	-98.4	98.4				
100.0	100.0	103.5	103.5	0.5	0.6	-90.58	-1.0	-98.4	98.4	97.3	1.11	88.994	
200.0	200.0	203.5	203.5	1.7	1.7	-90.58	-1.0	-98.4	98.4	95.0	3.45	28.528	
300.0	300.0	303.5	303.5	2.4	2.4	-90.58	-1.0	-98.4	98.4	93.6	4.84	20.322	
400.0	400.0	403.5	403.5	3.0	3.0	-90.58	-1.0	-98.4	98.4	92.5	5.93	16.611	
500.0	500.0	503.5	503.5	3.4	3.4	-90.58	-1.0	-98.4	98.4	91.6	6.85	14.378	
600.0	600.0	603.5	603.5	3.8	3.8	-90.58	-1.0	-98.4	98.4	90.8	7.66	12.845	
700.0	700.0	703.5	703.5	4.2	4.2	-90.58	-1.0	-98.4	98.4	90.0	8.41	11.708	
800.0	800.0	803.5	803.5	4.5	4.6	-90.58	-1.0	-98.4	98.4	89.3	9.10	10.821	
900.0	900.0	903.5	903.5	4.9	4.9	-90.58	-1.0	-98.4	98.4	88.7	9.74	10.104	
1,000.0	1,000.0	1,003.5	1,003.5	5.2	5.2	-90.58	-1.0	-98.4	98.4	88.1	10.35	9.508	
1,100.0	1,100.0	1,103.5	1,103.5	5.5	5.5	-90.58	-1.0	-98.4	98.4	87.5	10.93	9.003	
1,200.0	1,200.0	1,203.5	1,203.5	5.7	5.7	-90.58	-1.0	-98.4	98.4	86.9	11.49	8.567	
1,300.0	1,300.0	1,303.5	1,303.5	6.0	6.0	-90.58	-1.0	-98.4	98.4	86.4	12.02	8.186	
1,400.0	1,400.0	1,403.5	1,403.5	6.3	6.3	-90.58	-1.0	-98.4	98.4	85.9	12.54	7.849	
1,500.0	1,500.0	1,503.5	1,503.5	6.5	6.5	-90.58	-1.0	-98.4	98.4	85.4	13.04	7.548	
1,600.0	1,600.0	1,603.5	1,603.5	6.8	6.8	-90.58	-1.0	-98.4	98.4	84.9	13.53	7.277	
1,700.0	1,700.0	1,703.5	1,703.5	7.0	7.0	-90.58	-1.0	-98.4	98.4	84.4	14.00	7.032	
1,800.0	1,800.0	1,803.5	1,803.5	7.2	7.2	-90.58	-1.0	-98.4	98.4	84.0	14.46	6.808	
1,900.0	1,900.0	1,903.5	1,903.5	7.4	7.5	-90.58	-1.0	-98.4	98.4	83.5	14.91	6.603	
2,000.0	2,000.0	2,003.5	2,003.5	7.7	7.7	-90.58	-1.0	-98.4	98.4	83.1	15.35	6.413	
2,100.0	2,100.0	2,103.5	2,103.5	7.9	7.9	-90.58	-1.0	-98.4	98.4	82.7	15.78	6.238	
2,200.0	2,200.0	2,203.5	2,203.5	8.1	8.1	-90.58	-1.0	-98.4	98.4	82.2	16.20	6.076	
2,300.0	2,300.0	2,303.5	2,303.5	8.3	8.3	-90.58	-1.0	-98.4	98.4	81.8	16.62	5.924	
2,400.0	2,400.0	2,403.5	2,403.5	8.5	8.5	-90.58	-1.0	-98.4	98.4	81.4	17.02	5.782	
2,500.0	2,500.0	2,503.5	2,503.5	8.7	8.7	-90.58	-1.0	-98.4	98.4	81.0	17.42	5.649	
2,600.0	2,600.0	2,603.5	2,603.5	8.9	8.9	-90.58	-1.0	-98.4	98.4	80.6	17.82	5.524	
2,700.0	2,700.0	2,703.5	2,703.5	9.1	9.1	-90.58	-1.0	-98.4	98.4	80.2	18.21	5.406	
2,800.0	2,800.0	2,803.5	2,803.5	9.3	9.3	-90.58	-1.0	-98.4	98.4	79.8	18.59	5.294	
2,900.0	2,900.0	2,903.5	2,903.5	9.5	9.5	-90.58	-1.0	-98.4	98.4	79.5	18.97	5.188	
3,000.0	3,000.0	3,003.5	3,003.5	9.7	9.7	-90.58	-1.0	-98.4	98.4	79.1	19.35	5.088	
3,100.0	3,100.0	3,103.5	3,103.5	9.9	9.9	-90.58	-1.0	-98.4	98.4	78.7	19.72	4.992	
3,200.0	3,200.0	3,203.5	3,203.5	10.0	10.0	-90.58	-1.0	-98.4	98.4	78.3	20.08	4.902	
3,300.0	3,300.0	3,303.5	3,303.5	10.2	10.2	-90.58	-1.0	-98.4	98.4	78.0	20.44	4.815	
3,400.0	3,400.0	3,403.5	3,403.5	10.4	10.4	-90.58	-1.0	-98.4	98.4	77.6	20.80	4.732	
3,500.0	3,500.0	3,503.5	3,503.5	10.6	10.6	-90.58	-1.0	-98.4	98.4	77.3	21.15	4.653	
3,600.0	3,600.0	3,603.5	3,603.5	10.7	10.8	-90.58	-1.0	-98.4	98.4	76.9	21.51	4.577	
3,700.0	3,700.0	3,703.5	3,703.5	10.9	10.9	-90.58	-1.0	-98.4	98.4	76.6	21.85	4.504	
3,800.0	3,800.0	3,803.5	3,803.5	11.1	11.1	-90.58	-1.0	-98.4	98.4	76.2	22.20	4.434	
3,900.0	3,900.0	3,903.5	3,903.5	11.3	11.3	-90.58	-1.0	-98.4	98.4	75.9	22.54	4.367	
4,000.0	4,000.0	4,003.5	4,003.5	11.4	11.4	-90.58	-1.0	-98.4	98.4	75.6	22.88	4.303	
4,100.0	4,100.0	4,103.5	4,103.5	11.6	11.6	-90.58	-1.0	-98.4	98.4	75.2	23.21	4.240	
4,200.0	4,200.0	4,203.5	4,203.5	11.8	11.8	-90.58	-1.0	-98.4	98.4	74.9	23.55	4.180	
4,300.0	4,300.0	4,303.5	4,303.5	11.9	11.9	-90.58	-1.0	-98.4	98.4	74.6	23.88	4.122	
4,400.0	4,400.0	4,403.5	4,403.5	12.1	12.1	-90.58	-1.0	-98.4	98.4	74.2	24.21	4.066	
4,500.0	4,500.0	4,503.5	4,503.5	12.3	12.3	-90.58	-1.0	-98.4	98.4	73.9	24.53	4.012	
4,600.0	4,600.0	4,603.5	4,603.5	12.4	12.4	-90.58	-1.0	-98.4	98.4	73.6	24.86	3.960	
4,700.0	4,700.0	4,703.5	4,703.5	12.6	12.6	-90.58	-1.0	-98.4	98.4	73.3	25.18	3.909	
4,800.0	4,800.0	4,803.5	4,803.5	12.7	12.8	-90.58	-1.0	-98.4	98.4	72.9	25.50	3.860	
4,900.0	4,900.0	4,903.5	4,903.5	12.9	12.9	-90.58	-1.0	-98.4	98.4	72.6	25.81	3.813	
5,000.0	5,000.0	5,003.5	5,003.5	13.1	13.1	-90.58	-1.0	-98.4	98.4	72.3	26.13	3.767 CC, ES	
5,100.0	5,100.0	5,103.5	5,103.5	13.2	13.2	162.57	-1.0	-98.4	99.3	72.9	26.40	3.760 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 507H
Project:	Hat Mesa	TVD Reference:	WELL @ 3694.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3694.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 507H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 507H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 507H - 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			Offset Wellbore Centre		Distance				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	
5,200.0	5,200.0	5,203.5	5,203.5	13.3	13.4	163.00	-1.0	-98.4	101.8	75.1	26.66	3.817	
5,300.0	5,299.9	5,303.4	5,303.4	13.4	13.5	163.68	-1.0	-98.4	105.9	79.0	26.93	3.934	
5,400.0	5,399.7	5,403.2	5,403.2	13.5	13.7	164.54	-1.0	-98.4	111.8	84.6	27.22	4.108	
5,500.0	5,499.4	5,504.4	5,504.4	13.7	13.8	165.23	-1.7	-97.8	118.7	91.3	27.46	4.323	
5,600.0	5,598.9	5,605.7	5,605.7	13.9	13.9	165.48	-3.6	-95.8	126.0	98.3	27.71	4.548	
5,700.0	5,698.4	5,707.2	5,707.0	14.1	14.0	165.29	-6.9	-92.7	132.9	104.9	27.98	4.749	
5,800.0	5,797.8	5,807.9	5,807.6	14.3	14.0	164.66	-11.2	-88.4	138.6	110.4	28.23	4.910	
5,900.0	5,897.3	5,907.7	5,907.2	14.5	14.1	164.03	-15.7	-84.1	144.2	115.7	28.55	5.051	
6,000.0	5,996.7	6,007.6	6,006.8	14.8	14.3	163.44	-20.2	-79.7	149.8	120.9	28.91	5.183	
6,100.0	6,096.2	6,107.4	6,106.5	15.1	14.4	162.90	-24.7	-75.3	155.5	126.2	29.28	5.309	
6,200.0	6,195.6	6,207.2	6,206.1	15.4	14.6	162.39	-29.2	-70.9	161.1	131.4	29.68	5.427	
6,300.0	6,295.1	6,307.1	6,305.7	15.7	14.8	161.91	-33.7	-66.6	166.7	136.6	30.10	5.540	
6,400.0	6,394.5	6,406.9	6,405.4	16.0	15.0	161.47	-38.2	-62.2	172.4	141.8	30.53	5.646	
6,500.0	6,494.0	6,506.7	6,505.0	16.3	15.2	161.06	-42.7	-57.8	178.0	147.1	30.98	5.746	
6,600.0	6,593.4	6,606.6	6,604.6	16.7	15.5	160.67	-47.2	-53.4	183.7	152.3	31.45	5.841	
6,700.0	6,692.9	6,706.4	6,704.3	17.0	15.7	160.31	-51.6	-49.0	189.4	157.5	31.94	5.931	
6,800.0	6,792.3	6,806.2	6,803.9	17.4	16.0	159.96	-56.1	-44.7	195.1	162.6	32.43	6.015	
6,900.0	6,891.8	6,906.0	6,903.6	17.8	16.2	159.64	-60.6	-40.3	200.8	167.8	32.94	6.094	
7,000.0	6,991.2	7,005.9	7,003.2	18.2	16.5	159.33	-65.1	-35.9	206.5	173.0	33.47	6.169	
7,100.0	7,090.7	7,105.7	7,102.8	18.6	16.8	159.04	-69.6	-31.5	212.2	178.2	34.00	6.240	
7,200.0	7,190.1	7,205.5	7,202.5	19.0	17.1	158.77	-74.1	-27.2	217.9	183.3	34.55	6.306	
7,300.0	7,289.6	7,305.4	7,302.1	19.4	17.4	158.50	-78.6	-22.8	223.6	188.5	35.11	6.369	
7,400.0	7,389.0	7,405.2	7,401.7	19.8	17.7	158.26	-83.1	-18.4	229.3	193.6	35.68	6.428	
7,500.0	7,488.5	7,505.0	7,501.4	20.3	18.1	158.02	-87.5	-14.0	235.0	198.8	36.25	6.483	
7,600.0	7,587.9	7,604.9	7,601.0	20.7	18.4	157.80	-92.0	-9.7	240.8	203.9	36.84	6.536	
7,700.0	7,687.4	7,704.7	7,700.6	21.1	18.7	157.58	-96.5	-5.3	246.5	209.1	37.43	6.585	
7,800.0	7,786.9	7,804.5	7,800.3	21.6	19.1	157.38	-101.0	-0.9	252.2	214.2	38.04	6.631	
7,900.0	7,886.3	7,904.4	7,899.9	22.0	19.4	157.18	-105.5	3.5	258.0	219.3	38.65	6.675	
8,000.0	7,985.8	8,004.2	7,999.5	22.5	19.8	157.00	-110.0	7.8	263.7	224.5	39.26	6.717	
8,100.0	8,085.2	8,104.0	8,099.2	23.0	20.2	156.82	-114.5	12.2	269.5	229.6	39.89	6.755	
8,200.0	8,184.7	8,203.9	8,198.8	23.4	20.5	156.65	-119.0	16.6	275.2	234.7	40.52	6.792	
8,300.0	8,284.1	8,303.7	8,298.4	23.9	20.9	156.48	-123.5	21.0	281.0	239.8	41.15	6.827	
8,400.0	8,383.6	8,403.5	8,398.1	24.4	21.3	156.32	-127.9	25.3	286.7	244.9	41.80	6.860	
8,500.0	8,483.0	8,503.4	8,497.7	24.9	21.7	156.17	-132.4	29.7	292.5	250.0	42.44	6.890	
8,600.0	8,582.5	8,603.2	8,597.3	25.3	22.1	156.03	-136.9	34.1	298.2	255.1	43.10	6.920	
8,700.0	8,681.9	8,703.0	8,697.0	25.8	22.5	155.89	-141.4	38.5	304.0	260.2	43.75	6.947	
8,800.0	8,781.4	8,802.8	8,796.6	26.3	22.9	155.75	-145.9	42.8	309.7	265.3	44.42	6.973	
8,900.0	8,880.8	8,902.7	8,896.2	26.8	23.3	155.62	-150.4	47.2	315.5	270.4	45.08	6.998	
9,000.0	8,980.3	9,002.5	8,995.9	27.3	23.7	155.50	-154.9	51.6	321.2	275.5	45.76	7.021	
9,100.0	9,079.7	9,102.3	9,095.5	27.8	24.1	155.38	-159.4	56.0	327.0	280.6	46.43	7.043	
9,205.8	9,185.0	9,208.0	9,201.0	28.3	24.5	155.25	-164.1	60.6	333.1	286.0	47.15	7.064	
9,225.0	9,204.0	9,227.1	9,220.0	28.4	24.6	154.50	-165.0	61.4	334.6	287.3	47.29	7.075	
9,250.0	9,228.6	9,251.9	9,244.8	28.6	24.7	153.97	-166.1	62.5	337.5	289.9	47.51	7.103	
9,275.0	9,253.0	9,276.6	9,269.4	28.8	24.8	153.68	-167.2	63.6	341.5	293.8	47.77	7.149	
9,300.0	9,277.1	9,301.0	9,293.7	28.9	24.9	153.50	-168.3	64.7	346.7	298.7	48.06	7.215	
9,325.0	9,300.7	9,325.0	9,317.7	29.1	25.0	153.40	-169.4	65.7	353.1	304.7	48.37	7.299	
9,350.0	9,323.9	9,348.7	9,341.4	29.3	25.1	153.35	-170.4	66.8	360.6	311.9	48.71	7.402	
9,375.0	9,346.6	9,371.9	9,364.6	29.5	25.2	153.31	-171.5	67.8	369.2	320.1	49.07	7.524	
9,400.0	9,368.7	9,394.7	9,387.3	29.6	25.3	153.29	-172.5	68.8	378.9	329.5	49.44	7.664	
9,425.0	9,390.2	9,416.8	9,409.4	29.8	25.4	153.25	-173.5	69.8	389.8	339.9	49.82	7.823	
9,450.0	9,411.0	9,438.3	9,430.8	30.0	25.5	153.20	-174.5	70.7	401.7	351.5	50.21	7.999	
9,475.0	9,431.0	9,459.1	9,451.6	30.2	25.6	153.10	-175.4	71.6	414.7	364.1	50.61	8.194	

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 507H
Project:	Hat Mesa	TVD Reference:	WELL @ 3694.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3694.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 507H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 507H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 507H - 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				Rule Assigned:									Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance				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		
9,500.0	9,450.2	9,479.2	9,471.6	30.3	25.7	152.95	-176.3	72.5	428.7	377.7	51.00	8.405		
9,525.0	9,468.5	9,498.5	9,490.8	30.5	25.8	152.72	-177.2	73.3	443.7	392.3	51.39	8.634		
9,550.0	9,486.0	9,516.9	9,509.2	30.7	25.8	152.41	-178.0	74.1	459.7	407.9	51.77	8.879		
9,571.0	9,499.9	9,531.6	9,524.0	30.8	25.9	152.06	-178.7	74.8	473.9	421.8	52.09	9.098		
9,575.0	9,502.5	9,534.4	9,526.7	30.8	25.9	153.03	-178.8	74.9	476.6	424.5	52.15	9.140		
9,600.0	9,518.7	9,551.6	9,543.9	30.9	26.0	159.15	-179.6	75.7	494.1	441.6	52.47	9.416		
9,625.0	9,535.2	9,569.0	9,561.3	31.1	26.1	165.21	-180.3	76.4	511.7	459.0	52.75	9.700		
9,650.0	9,551.7	9,586.5	9,578.7	31.2	26.1	171.17	-181.1	77.2	529.5	476.5	53.00	9.990		
9,675.0	9,568.4	9,604.0	9,596.2	31.3	26.2	176.98	-181.9	78.0	547.3	494.1	53.21	10.287		
9,700.0	9,585.0	9,621.5	9,613.6	31.5	26.3	-177.37	-182.7	78.7	565.2	511.8	53.38	10.588		
9,725.0	9,601.7	9,638.9	9,631.0	31.6	26.4	-171.93	-183.5	79.5	583.0	529.5	53.52	10.893		
9,750.0	9,618.3	9,656.2	9,648.2	31.7	26.4	-166.69	-184.3	80.2	600.8	547.2	53.64	11.201		
9,775.0	9,634.8	9,673.3	9,665.3	31.8	26.5	-161.67	-185.0	81.0	618.5	564.7	53.72	11.513		
9,800.0	9,651.2	9,690.2	9,682.2	32.0	26.6	-156.88	-185.8	81.7	636.0	582.2	53.77	11.828		
9,825.0	9,667.4	9,706.9	9,698.8	32.1	26.7	-152.32	-186.5	82.5	653.4	599.6	53.80	12.146		
9,850.0	9,683.3	9,723.2	9,715.1	32.2	26.7	-147.98	-187.3	83.2	670.7	616.9	53.80	12.467		
9,875.0	9,699.0	9,739.2	9,731.1	32.3	26.8	-143.87	-188.0	83.9	687.8	634.0	53.77	12.791		
9,900.0	9,714.3	9,754.8	9,746.7	32.5	26.9	-139.98	-188.7	84.6	704.8	651.0	53.72	13.120		
9,925.0	9,729.3	9,770.0	9,761.8	32.6	26.9	-136.29	-189.4	85.2	721.5	667.9	53.64	13.452		
9,950.0	9,743.9	9,784.7	9,776.5	32.7	27.0	-132.81	-190.0	85.9	738.1	684.6	53.53	13.788		
9,975.0	9,758.0	9,798.9	9,790.7	32.9	27.1	-129.51	-190.7	86.5	754.5	701.1	53.40	14.129		
10,000.0	9,771.6	9,812.5	9,804.3	33.0	27.1	-126.39	-191.3	87.1	770.7	717.5	53.24	14.476		
10,025.0	9,784.7	9,825.5	9,817.3	33.1	27.2	-123.44	-191.9	87.7	786.7	733.7	53.06	14.828		
10,050.0	9,797.3	9,837.9	9,829.6	33.3	27.2	-120.64	-192.4	88.2	802.6	749.7	52.85	15.185		
10,075.0	9,809.3	9,848.5	9,840.2	33.4	27.3	-117.91	-192.9	88.7	818.2	765.6	52.62	15.550		
10,100.0	9,820.6	9,859.8	9,851.5	33.6	27.3	-115.41	-193.4	89.2	833.7	781.3	52.37	15.918		
10,125.0	9,831.3	9,869.4	9,861.1	33.7	27.3	-112.97	-193.8	89.6	849.0	796.8	52.10	16.294		
10,150.0	9,841.3	9,878.3	9,870.0	33.8	27.4	-110.65	-194.2	89.9	864.0	812.2	51.82	16.675		
10,175.0	9,850.6	9,886.5	9,878.2	34.0	27.4	-108.44	-194.5	90.3	878.9	827.4	51.51	17.062		
10,200.0	9,859.1	9,894.0	9,885.6	34.2	27.4	-106.34	-194.8	90.5	893.6	842.4	51.20	17.453		
10,225.0	9,866.9	9,900.0	9,891.6	34.3	27.5	-104.29	-195.1	90.8	908.0	857.2	50.87	17.851		
10,250.0	9,873.9	9,906.8	9,898.4	34.5	27.5	-102.46	-195.3	91.0	922.2	871.7	50.54	18.249		
10,275.0	9,880.1	9,912.0	9,903.6	34.6	27.5	-100.66	-195.5	91.2	936.2	886.0	50.19	18.653		
10,300.0	9,885.5	9,916.4	9,908.0	34.8	27.5	-98.96	-195.7	91.4	949.9	900.1	49.84	19.059		
10,325.0	9,890.1	9,920.0	9,911.6	34.9	27.5	-97.35	-195.8	91.5	963.4	913.9	49.49	19.468		
10,350.0	9,893.8	9,922.8	9,914.4	35.1	27.6	-95.82	-195.9	91.6	976.6	927.4	49.13	19.877		
10,375.0	9,896.6	9,924.8	9,916.4	35.3	27.6	-94.39	-196.0	91.7	989.4	940.7	48.77	20.287		

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 507H
Project:	Hat Mesa	TVD Reference:	WELL @ 3694.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3694.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 507H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 507H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 507H - 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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	4.5	4.5	0.0	0.0	-90.37	-0.2	-33.0	33.0				
100.0	100.0	104.5	104.5	0.5	0.6	-90.37	-0.2	-33.0	33.0	31.9	1.12	29.536	
200.0	200.0	204.5	204.5	1.7	1.7	-90.37	-0.2	-33.0	33.0	29.6	3.46	9.550	
300.0	300.0	304.5	304.5	2.4	2.4	-90.37	-0.2	-33.0	33.0	28.2	4.85	6.809	
400.0	400.0	404.5	404.5	3.0	3.0	-90.37	-0.2	-33.0	33.0	27.1	5.93	5.567	
500.0	500.0	504.5	504.5	3.4	3.4	-90.37	-0.2	-33.0	33.0	26.2	6.85	4.820	
600.0	600.0	604.5	604.5	3.8	3.8	-90.37	-0.2	-33.0	33.0	25.3	7.67	4.306	
700.0	700.0	704.5	704.5	4.2	4.2	-90.37	-0.2	-33.0	33.0	24.6	8.41	3.926	
800.0	800.0	804.5	804.5	4.5	4.6	-90.37	-0.2	-33.0	33.0	23.9	9.10	3.628	
900.0	900.0	904.5	904.5	4.9	4.9	-90.37	-0.2	-33.0	33.0	23.3	9.74	3.388	
1,000.0	1,000.0	1,004.5	1,004.5	5.2	5.2	-90.37	-0.2	-33.0	33.0	22.7	10.36	3.188	
1,100.0	1,100.0	1,104.5	1,104.5	5.5	5.5	-90.37	-0.2	-33.0	33.0	22.1	10.94	3.019	
1,200.0	1,200.0	1,204.5	1,204.5	5.7	5.8	-90.37	-0.2	-33.0	33.0	21.5	11.49	2.873	
1,300.0	1,300.0	1,304.5	1,304.5	6.0	6.0	-90.37	-0.2	-33.0	33.0	21.0	12.03	2.745	
1,400.0	1,400.0	1,404.5	1,404.5	6.3	6.3	-90.37	-0.2	-33.0	33.0	20.5	12.54	2.632	
1,500.0	1,500.0	1,504.5	1,504.5	6.5	6.5	-90.37	-0.2	-33.0	33.0	20.0	13.04	2.531	
1,600.0	1,600.0	1,604.5	1,604.5	6.8	6.8	-90.37	-0.2	-33.0	33.0	19.5	13.53	2.440	
1,700.0	1,700.0	1,704.5	1,704.5	7.0	7.0	-90.37	-0.2	-33.0	33.0	19.0	14.00	2.358	
1,800.0	1,800.0	1,804.5	1,804.5	7.2	7.2	-90.37	-0.2	-33.0	33.0	18.6	14.46	2.283	
1,900.0	1,900.0	1,904.5	1,904.5	7.4	7.5	-90.37	-0.2	-33.0	33.0	18.1	14.91	2.214	
2,000.0	2,000.0	2,004.5	2,004.5	7.7	7.7	-90.37	-0.2	-33.0	33.0	17.7	15.35	2.151	
2,100.0	2,100.0	2,104.5	2,104.5	7.9	7.9	-90.37	-0.2	-33.0	33.0	17.2	15.78	2.092	
2,200.0	2,200.0	2,204.5	2,204.5	8.1	8.1	-90.37	-0.2	-33.0	33.0	16.8	16.20	2.038	
2,300.0	2,300.0	2,304.5	2,304.5	8.3	8.3	-90.37	-0.2	-33.0	33.0	16.4	16.62	1.987	
2,400.0	2,400.0	2,404.5	2,404.5	8.5	8.5	-90.37	-0.2	-33.0	33.0	16.0	17.03	1.939	
2,500.0	2,500.0	2,504.5	2,504.5	8.7	8.7	-90.37	-0.2	-33.0	33.0	15.6	17.43	1.895	
2,600.0	2,600.0	2,604.5	2,604.5	8.9	8.9	-90.37	-0.2	-33.0	33.0	15.2	17.82	1.853	
2,700.0	2,700.0	2,704.5	2,704.5	9.1	9.1	-90.37	-0.2	-33.0	33.0	14.8	18.21	1.813	
2,800.0	2,800.0	2,804.5	2,804.5	9.3	9.3	-90.37	-0.2	-33.0	33.0	14.4	18.59	1.776	
2,900.0	2,900.0	2,904.5	2,904.5	9.5	9.5	-90.37	-0.2	-33.0	33.0	14.0	18.97	1.740	
3,000.0	3,000.0	3,004.5	3,004.5	9.7	9.7	-90.37	-0.2	-33.0	33.0	13.7	19.35	1.706	
3,100.0	3,100.0	3,104.5	3,104.5	9.9	9.9	-90.37	-0.2	-33.0	33.0	13.3	19.72	1.674	
3,200.0	3,200.0	3,204.5	3,204.5	10.0	10.0	-90.37	-0.2	-33.0	33.0	12.9	20.08	1.644	
3,300.0	3,300.0	3,304.5	3,304.5	10.2	10.2	-90.37	-0.2	-33.0	33.0	12.6	20.44	1.615	
3,400.0	3,400.0	3,404.5	3,404.5	10.4	10.4	-90.37	-0.2	-33.0	33.0	12.2	20.80	1.587	
3,500.0	3,500.0	3,504.5	3,504.5	10.6	10.6	-90.37	-0.2	-33.0	33.0	11.9	21.16	1.561	
3,600.0	3,600.0	3,604.5	3,604.5	10.7	10.8	-90.37	-0.2	-33.0	33.0	11.5	21.51	1.535	
3,700.0	3,700.0	3,704.5	3,704.5	10.9	10.9	-90.37	-0.2	-33.0	33.0	11.2	21.85	1.511	
3,800.0	3,800.0	3,804.5	3,804.5	11.1	11.1	-90.37	-0.2	-33.0	33.0	10.8	22.20	1.487 Level 3	
3,900.0	3,900.0	3,904.5	3,904.5	11.3	11.3	-90.37	-0.2	-33.0	33.0	10.5	22.54	1.465 Level 3	
4,000.0	4,000.0	4,004.5	4,004.5	11.4	11.4	-90.37	-0.2	-33.0	33.0	10.1	22.88	1.443 Level 3	
4,100.0	4,100.0	4,104.5	4,104.5	11.6	11.6	-90.37	-0.2	-33.0	33.0	9.8	23.21	1.422 Level 3	
4,200.0	4,200.0	4,204.5	4,204.5	11.8	11.8	-90.37	-0.2	-33.0	33.0	9.5	23.55	1.402 Level 3	
4,300.0	4,300.0	4,304.5	4,304.5	11.9	11.9	-90.37	-0.2	-33.0	33.0	9.1	23.88	1.383 Level 3	
4,400.0	4,400.0	4,404.5	4,404.5	12.1	12.1	-90.37	-0.2	-33.0	33.0	8.8	24.21	1.364 Level 3	
4,500.0	4,500.0	4,504.5	4,504.5	12.3	12.3	-90.37	-0.2	-33.0	33.0	8.5	24.53	1.346 Level 3	
4,600.0	4,600.0	4,604.5	4,604.5	12.4	12.4	-90.37	-0.2	-33.0	33.0	8.2	24.86	1.328 Level 3	
4,700.0	4,700.0	4,704.5	4,704.5	12.6	12.6	-90.37	-0.2	-33.0	33.0	7.8	25.18	1.311 Level 3	
4,800.0	4,800.0	4,804.5	4,804.5	12.7	12.8	-90.37	-0.2	-33.0	33.0	7.5	25.50	1.295 Level 3	
4,900.0	4,900.0	4,904.5	4,904.5	12.9	12.9	-90.37	-0.2	-33.0	33.0	7.2	25.82	1.279 Level 3	
5,000.0	5,000.0	5,004.5	5,004.5	13.1	13.1	-90.37	-0.2	-33.0	33.0	6.9	26.13	1.263 Level 3, CC, ES, SF	
5,100.0	5,100.0	5,104.5	5,104.5	13.2	13.2	163.07	-0.2	-33.0	33.8	7.5	26.40	1.282 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 507H
Project:	Hat Mesa	TVD Reference:	WELL @ 3694.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3694.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 507H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 507H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 507H - 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
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,200.0	5,200.0	5,204.5	5,204.5	13.3	13.4	164.26	-0.2	-33.0	36.4	9.7	26.66	1.364	Level 3
5,300.0	5,299.9	5,304.4	5,304.4	13.4	13.5	165.92	-0.2	-33.0	40.6	13.6	26.93	1.507	
5,400.0	5,399.7	5,405.0	5,405.0	13.5	13.6	167.50	-0.5	-32.1	45.6	18.4	27.17	1.678	
5,500.0	5,499.4	5,505.7	5,505.6	13.7	13.7	168.76	-1.3	-29.5	50.6	23.2	27.43	1.846	
5,600.0	5,598.9	5,606.5	5,606.3	13.9	13.9	169.79	-2.6	-25.2	55.7	27.9	27.72	2.008	
5,700.0	5,698.4	5,707.4	5,707.0	14.1	14.0	170.51	-4.4	-19.2	59.8	31.8	28.05	2.134	
5,800.0	5,797.8	5,808.3	5,807.7	14.3	14.2	170.89	-6.8	-11.5	62.3	33.9	28.41	2.192	
5,900.0	5,897.3	5,908.3	5,907.3	14.5	14.3	171.14	-9.3	-3.1	64.0	35.2	28.83	2.221	
6,000.0	5,996.7	6,008.3	6,006.9	14.8	14.5	171.38	-11.9	5.2	65.7	36.5	29.28	2.245	
6,100.0	6,096.2	6,108.3	6,106.5	15.1	14.7	171.60	-14.4	13.5	67.5	37.7	29.77	2.267	
6,200.0	6,195.6	6,208.3	6,206.1	15.4	15.0	171.81	-17.0	21.9	69.2	38.9	30.28	2.285	
6,300.0	6,295.1	6,308.3	6,305.7	15.7	15.2	172.01	-19.5	30.2	70.9	40.1	30.83	2.300	
6,400.0	6,394.5	6,408.2	6,405.3	16.0	15.5	172.20	-22.1	38.5	72.7	41.2	31.41	2.313	
6,500.0	6,494.0	6,508.2	6,504.9	16.3	15.7	172.38	-24.6	46.9	74.4	42.4	32.02	2.323	
6,600.0	6,593.4	6,608.2	6,604.5	16.7	16.0	172.56	-27.2	55.2	76.1	43.5	32.65	2.331	
6,700.0	6,692.9	6,708.2	6,704.1	17.0	16.3	172.72	-29.7	63.5	77.8	44.5	33.31	2.337	
6,800.0	6,792.3	6,808.2	6,803.7	17.4	16.6	172.88	-32.3	71.9	79.6	45.6	33.99	2.341	
6,900.0	6,891.8	6,908.2	6,903.3	17.8	17.0	173.04	-34.8	80.2	81.3	46.6	34.70	2.343	
7,000.0	6,991.2	7,008.2	7,002.9	18.2	17.3	173.18	-37.4	88.5	83.0	47.6	35.42	2.344	
7,100.0	7,090.7	7,108.1	7,102.5	18.6	17.6	173.32	-39.9	96.9	84.8	48.6	36.17	2.344	
7,200.0	7,190.1	7,208.1	7,202.1	19.0	18.0	173.46	-42.5	105.2	86.5	49.6	36.93	2.342	
7,300.0	7,289.6	7,308.1	7,301.7	19.4	18.4	173.59	-45.0	113.5	88.2	50.5	37.71	2.340	
7,400.0	7,389.0	7,408.1	7,401.3	19.8	18.7	173.71	-47.6	121.9	90.0	51.5	38.51	2.336	
7,500.0	7,488.5	7,508.1	7,500.9	20.3	19.1	173.83	-50.1	130.2	91.7	52.4	39.32	2.332	
7,600.0	7,587.9	7,608.1	7,600.5	20.7	19.5	173.94	-52.7	138.5	93.4	53.3	40.15	2.328	
7,700.0	7,687.4	7,708.0	7,700.2	21.1	19.9	174.06	-55.2	146.9	95.2	54.2	40.99	2.322	
7,800.0	7,786.9	7,808.0	7,799.8	21.6	20.3	174.16	-57.8	155.2	96.9	55.1	41.84	2.316	
7,900.0	7,886.3	7,908.0	7,899.4	22.0	20.7	174.27	-60.3	163.5	98.7	55.9	42.70	2.310	
8,000.0	7,985.8	8,008.0	7,999.0	22.5	21.1	174.36	-62.9	171.9	100.4	56.8	43.58	2.304	
8,100.0	8,085.2	8,108.0	8,098.6	23.0	21.5	174.46	-65.4	180.2	102.1	57.7	44.47	2.297	
8,200.0	8,184.7	8,208.0	8,198.2	23.4	22.0	174.55	-67.9	188.5	103.9	58.5	45.36	2.290	
8,300.0	8,284.1	8,308.0	8,297.8	23.9	22.4	174.64	-70.5	196.9	105.6	59.3	46.27	2.282	
8,400.0	8,383.6	8,407.9	8,397.4	24.4	22.8	174.73	-73.0	205.2	107.3	60.2	47.18	2.275	
8,500.0	8,483.0	8,507.9	8,497.0	24.9	23.3	174.81	-75.6	213.5	109.1	61.0	48.11	2.267	
8,600.0	8,582.5	8,607.9	8,596.6	25.3	23.7	174.90	-78.1	221.9	110.8	61.8	49.04	2.260	
8,700.0	8,681.9	8,707.9	8,696.2	25.8	24.2	174.98	-80.7	230.2	112.6	62.6	49.97	2.252	
8,800.0	8,781.4	8,807.9	8,795.8	26.3	24.6	175.05	-83.2	238.5	114.3	63.4	50.92	2.245	
8,900.0	8,880.8	8,907.9	8,895.4	26.8	25.1	175.13	-85.8	246.9	116.0	64.2	51.87	2.237	
9,000.0	8,980.3	9,007.8	8,995.0	27.3	25.5	175.20	-88.3	255.2	117.8	64.9	52.83	2.229	
9,100.0	9,079.7	9,107.8	9,094.6	27.8	26.0	175.27	-90.9	263.5	119.5	65.7	53.79	2.222	
9,205.8	9,185.0	9,213.7	9,200.0	28.3	26.5	175.34	-93.6	272.4	121.3	66.5	54.82	2.213	
9,225.0	9,204.0	9,232.8	9,219.1	28.4	26.6	174.69	-94.1	274.0	122.1	67.1	55.01	2.219	
9,250.0	9,228.6	9,257.7	9,243.9	28.6	26.7	174.30	-94.7	276.0	124.1	68.9	55.28	2.246	
9,275.0	9,253.0	9,282.5	9,268.6	28.8	26.8	174.16	-95.3	278.1	127.5	71.9	55.57	2.295	
9,300.0	9,277.1	9,307.0	9,293.1	28.9	26.9	174.15	-96.0	280.1	132.2	76.3	55.87	2.366	
9,325.0	9,300.7	9,331.3	9,317.2	29.1	27.0	174.22	-96.6	282.2	138.1	81.9	56.17	2.459	
9,350.0	9,323.9	9,355.2	9,341.1	29.3	27.1	174.35	-97.2	284.2	145.3	88.8	56.47	2.573	
9,375.0	9,346.6	9,378.8	9,364.5	29.5	27.2	174.51	-97.8	286.1	153.7	96.9	56.77	2.707	
9,400.0	9,368.7	9,401.8	9,387.5	29.6	27.4	174.68	-98.4	288.0	163.3	106.3	57.08	2.862	
9,425.0	9,390.2	9,424.3	9,409.9	29.8	27.5	174.85	-98.9	289.9	174.2	116.8	57.37	3.036	
9,450.0	9,411.0	9,446.2	9,431.7	30.0	27.6	175.02	-99.5	291.7	186.2	128.5	57.67	3.229	
9,475.0	9,431.0	9,467.5	9,452.9	30.2	27.7	175.18	-100.0	293.5	199.3	141.4	57.96	3.439	

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 507H
Project:	Hat Mesa	TVD Reference:	WELL @ 3694.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3694.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 507H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 507H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 507H - 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)			
9,500.0	9,450.2	9,488.0	9,473.3	30.3	27.8	175.32	-100.6	295.2	213.5	155.3	58.23	3.667	
9,525.0	9,468.5	9,507.7	9,493.0	30.5	27.9	175.43	-101.1	296.9	228.8	170.3	58.51	3.911	
9,550.0	9,486.0	9,526.7	9,511.8	30.7	27.9	175.53	-101.5	298.4	245.1	186.4	58.77	4.171	
9,571.0	9,499.9	9,541.9	9,527.0	30.8	28.0	175.58	-101.9	299.7	259.6	200.6	58.98	4.402	
9,575.0	9,502.5	9,544.7	9,529.8	30.8	28.0	176.48	-102.0	299.9	262.4	203.4	59.01	4.446	
9,600.0	9,518.7	9,562.6	9,547.6	30.9	28.1	-178.06	-102.5	301.4	279.9	220.6	59.24	4.725	
9,625.0	9,535.2	9,580.6	9,565.6	31.1	28.2	-172.97	-102.9	302.9	297.2	237.7	59.46	4.998	
9,650.0	9,551.7	9,598.7	9,583.6	31.2	28.3	-168.21	-103.4	304.4	314.3	254.6	59.69	5.265	
9,675.0	9,568.4	9,616.9	9,601.7	31.3	28.4	-163.74	-103.8	306.0	331.1	271.2	59.90	5.527	
9,700.0	9,585.0	9,635.0	9,619.8	31.5	28.5	-159.52	-104.3	307.5	347.7	287.5	60.11	5.784	
9,725.0	9,601.7	9,653.2	9,637.9	31.6	28.6	-155.54	-104.8	309.0	364.0	303.7	60.31	6.035	
9,750.0	9,618.3	9,671.2	9,655.8	31.7	28.6	-151.78	-105.2	310.5	380.0	319.5	60.49	6.282	
9,775.0	9,634.8	9,689.1	9,673.7	31.8	28.7	-148.22	-105.7	312.0	395.8	335.1	60.65	6.526	
9,800.0	9,651.2	9,706.8	9,691.3	32.0	28.8	-144.84	-106.1	313.5	411.3	350.5	60.79	6.766	
9,825.0	9,667.4	9,724.2	9,708.7	32.1	28.9	-141.65	-106.6	314.9	426.7	365.7	60.90	7.005	
9,850.0	9,683.3	9,741.4	9,725.8	32.2	29.0	-138.64	-107.0	316.3	441.8	380.8	60.99	7.243	
9,875.0	9,699.0	9,758.2	9,742.5	32.3	29.0	-135.78	-107.5	317.7	456.7	395.6	61.05	7.481	
9,900.0	9,714.3	9,774.7	9,758.9	32.5	29.1	-133.08	-107.9	319.1	471.4	410.3	61.07	7.719	
9,925.0	9,729.3	10,175.0	10,100.8	32.6	31.8	-161.55	-167.0	494.3	481.4	421.8	59.57	8.080	
9,946.7	9,741.9	10,211.3	10,122.1	32.7	31.9	-162.84	-176.2	522.2	481.1	421.9	59.25	8.120	
9,950.0	9,743.9	10,214.0	10,123.7	32.7	32.0	-162.81	-176.8	524.3	481.1	421.9	59.24	8.121	
9,975.0	9,758.0	10,234.6	10,135.7	32.9	32.1	-162.62	-181.0	540.5	481.6	422.4	59.19	8.136	
10,000.0	9,771.6	10,255.9	10,148.3	33.0	32.2	-162.53	-184.5	557.4	482.8	423.7	59.08	8.172	
10,025.0	9,784.7	10,278.1	10,161.5	33.1	32.3	-162.56	-187.0	575.0	484.7	425.8	58.91	8.227	
10,050.0	9,797.3	10,301.3	10,175.3	33.3	32.4	-162.70	-188.6	593.6	487.3	428.6	58.70	8.301	
10,075.0	9,809.3	10,325.6	10,189.9	33.4	32.5	-162.95	-189.1	613.0	490.7	432.3	58.46	8.394	
10,100.0	9,820.6	10,351.2	10,205.2	33.6	32.6	-163.34	-188.2	633.6	494.8	436.6	58.20	8.502	
10,125.0	9,831.3	10,378.5	10,221.4	33.7	32.7	-163.86	-185.8	655.3	499.6	441.6	57.92	8.625	
10,150.0	9,841.3	10,407.6	10,238.7	33.8	32.9	-164.52	-181.5	678.4	505.0	447.3	57.65	8.759	
10,175.0	9,850.6	10,438.9	10,257.0	34.0	33.0	-165.34	-174.9	702.9	510.9	453.5	57.39	8.902	
10,200.0	9,859.1	10,472.9	10,276.6	34.2	33.2	-166.34	-165.5	729.1	517.3	460.2	57.17	9.050	
10,225.0	9,866.9	10,510.2	10,297.5	34.3	33.4	-167.52	-152.6	757.0	524.2	467.2	56.98	9.199	
10,250.0	9,873.9	10,551.2	10,319.8	34.5	33.6	-168.89	-135.3	786.8	531.2	474.4	56.85	9.345	
10,275.0	9,880.1	10,596.9	10,343.5	34.6	33.8	-170.45	-112.3	818.3	538.4	481.7	56.77	9.484	
10,300.0	9,885.5	10,648.1	10,368.4	34.8	34.1	-172.17	-82.2	851.4	545.5	488.8	56.76	9.610	
10,325.0	9,890.1	10,693.9	10,388.8	34.9	34.4	-173.43	-51.6	878.6	552.3	495.5	56.79	9.724	
10,350.0	9,893.8	10,770.3	10,418.9	35.1	34.9	-175.85	6.1	918.6	558.4	501.5	56.97	9.803	
10,375.0	9,896.6	10,842.5	10,441.9	35.3	35.4	-177.55	67.3	949.0	563.7	506.4	57.21	9.852	
10,400.0	9,898.6	10,921.7	10,460.5	35.4	36.0	-178.93	140.2	973.4	567.6	510.0	57.63	9.850	
10,425.0	9,899.7	10,992.9	10,470.7	35.6	36.4	-179.64	209.3	986.8	569.9	511.7	58.16	9.799	
10,444.5	9,900.0	11,073.2	10,475.0	35.7	36.9	-180.00	289.2	992.0	570.5	511.4	59.05	9.661	
10,500.0	9,900.0	11,130.1	10,475.0	36.0	37.3	180.00	346.1	991.7	570.5	510.9	59.58	9.576	
10,600.0	9,900.0	11,230.1	10,475.0	36.7	37.9	180.00	446.1	991.1	570.5	510.0	60.52	9.427	
10,700.0	9,900.0	11,330.1	10,475.0	37.4	38.6	180.00	546.1	990.5	570.5	509.0	61.53	9.272	
10,800.0	9,900.0	11,430.1	10,475.0	38.2	39.3	180.00	646.1	989.9	570.5	507.9	62.60	9.114	
10,900.0	9,900.0	11,530.1	10,475.0	39.0	40.2	180.00	746.1	989.3	570.5	506.8	63.73	8.952	
11,000.0	9,900.0	11,630.1	10,475.0	39.9	41.0	180.00	846.1	988.7	570.5	505.6	64.91	8.789	
11,100.0	9,900.0	11,730.1	10,475.0	40.9	42.0	180.00	946.1	988.1	570.5	504.4	66.15	8.625	
11,200.0	9,900.0	11,830.1	10,475.0	41.9	43.0	180.00	1,046.1	987.5	570.5	503.1	67.43	8.461	
11,300.0	9,900.0	11,930.1	10,475.0	43.0	44.0	180.00	1,146.1	986.9	570.5	501.7	68.76	8.297	
11,400.0	9,900.0	12,030.1	10,475.0	44.2	45.1	180.00	1,246.1	986.4	570.5	500.4	70.13	8.135	
11,500.0	9,900.0	12,130.1	10,475.0	45.4	46.3	180.00	1,346.1	985.8	570.5	499.0	71.54	7.974	

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 507H
Project:	Hat Mesa	TVD Reference:	WELL @ 3694.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3694.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 507H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 507H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 507H - 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		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)					
11,600.0	9,900.0	12,230.1	10,475.0	46.6	47.5	180.00	1,446.1	985.2	570.5	497.5	72.99	7.816			
11,700.0	9,900.0	12,330.1	10,475.0	47.9	48.8	180.00	1,546.1	984.6	570.5	496.0	74.48	7.660			
11,800.0	9,900.0	12,430.1	10,475.0	49.2	50.1	180.00	1,646.1	984.0	570.5	494.5	76.00	7.506			
11,900.0	9,900.0	12,530.1	10,475.0	50.6	51.4	180.00	1,746.1	983.4	570.5	492.9	77.55	7.356			
12,000.0	9,900.0	12,630.1	10,475.0	52.0	52.8	180.00	1,846.1	982.8	570.5	491.4	79.14	7.209			
12,100.0	9,900.0	12,730.1	10,475.0	53.5	54.2	180.00	1,946.1	982.2	570.5	489.8	80.75	7.065			
12,200.0	9,900.0	12,830.1	10,475.0	55.0	55.7	179.99	2,046.1	981.6	570.5	488.1	82.39	6.925			
12,300.0	9,900.0	12,930.1	10,475.0	56.5	57.2	179.99	2,146.1	981.0	570.5	486.5	84.05	6.788			
12,400.0	9,900.0	13,030.1	10,475.0	58.0	58.7	179.99	2,246.1	980.5	570.5	484.8	85.74	6.654			
12,500.0	9,900.0	13,130.1	10,475.0	59.6	60.2	179.99	2,346.1	979.9	570.5	483.1	87.45	6.524			
12,600.0	9,900.0	13,230.1	10,475.0	61.2	61.8	179.99	2,446.1	979.3	570.5	481.3	89.18	6.397			
12,700.0	9,900.0	13,330.1	10,475.0	62.8	63.4	179.99	2,546.1	978.7	570.5	479.6	90.93	6.274			
12,800.0	9,900.0	13,430.1	10,475.0	64.5	65.1	179.99	2,646.1	978.1	570.5	477.8	92.69	6.155			
12,900.0	9,900.0	13,530.1	10,475.0	66.2	66.7	179.99	2,746.1	977.5	570.5	476.0	94.48	6.038			
13,000.0	9,900.0	13,630.1	10,475.0	67.8	68.4	179.99	2,846.1	976.9	570.5	474.2	96.28	5.925			
13,100.0	9,900.0	13,730.1	10,475.0	69.5	70.0	179.99	2,946.1	976.3	570.5	472.4	98.10	5.815			
13,200.0	9,900.0	13,830.1	10,475.0	71.3	71.7	179.99	3,046.0	975.7	570.5	470.6	99.93	5.709			
13,300.0	9,900.0	13,930.1	10,475.0	73.0	73.5	179.99	3,146.0	975.1	570.5	468.7	101.78	5.605			
13,400.0	9,900.0	14,030.1	10,475.0	74.7	75.2	179.99	3,246.0	974.6	570.5	466.9	103.64	5.505			
13,500.0	9,900.0	14,130.1	10,475.0	76.5	76.9	179.99	3,346.0	974.0	570.5	465.0	105.52	5.407			
13,600.0	9,900.0	14,230.1	10,475.0	78.3	78.7	179.99	3,446.0	973.4	570.5	463.1	107.40	5.312			
13,700.0	9,900.0	14,330.1	10,475.0	80.1	80.5	179.99	3,546.0	972.8	570.5	461.2	109.30	5.220			
13,800.0	9,900.0	14,430.1	10,475.0	81.9	82.3	179.99	3,646.0	972.2	570.5	459.3	111.20	5.130			
13,900.0	9,900.0	14,530.1	10,475.0	83.7	84.1	179.99	3,746.0	971.6	570.5	457.4	113.12	5.043			
14,000.0	9,900.0	14,630.1	10,475.0	85.5	85.9	179.99	3,846.0	971.0	570.5	455.5	115.05	4.959			
14,100.0	9,900.0	14,730.1	10,475.0	87.3	87.7	179.99	3,946.0	970.4	570.5	453.5	116.99	4.877			
14,200.0	9,900.0	14,830.1	10,475.0	89.1	89.5	179.99	4,046.0	969.8	570.5	451.6	118.93	4.797			
14,300.0	9,900.0	14,930.1	10,475.0	91.0	91.3	179.99	4,146.0	969.2	570.5	449.6	120.88	4.719			
14,400.0	9,900.0	15,030.1	10,475.0	92.8	93.2	179.99	4,246.0	968.6	570.5	447.7	122.85	4.644			
14,500.0	9,900.0	15,130.1	10,475.0	94.7	95.0	179.99	4,346.0	968.1	570.5	445.7	124.81	4.571			
14,600.0	9,900.0	15,230.1	10,475.0	96.5	96.9	179.99	4,446.0	967.5	570.5	443.7	126.79	4.500			
14,700.0	9,900.0	15,330.1	10,475.0	98.4	98.7	179.99	4,546.0	966.9	570.5	441.7	128.77	4.430			
14,800.0	9,900.0	15,430.1	10,475.0	100.3	100.6	179.99	4,646.0	966.3	570.5	439.7	130.76	4.363			
14,900.0	9,900.0	15,530.1	10,475.0	102.2	102.5	179.99	4,746.0	965.7	570.5	437.7	132.76	4.297			
15,000.0	9,900.0	15,630.1	10,475.0	104.0	104.3	179.99	4,846.0	965.1	570.5	435.7	134.76	4.233			
15,100.0	9,900.0	15,730.1	10,475.0	105.9	106.2	179.99	4,946.0	964.5	570.5	433.7	136.77	4.171			
15,200.0	9,900.0	15,830.1	10,475.0	107.8	108.1	179.99	5,046.0	963.9	570.5	431.7	138.78	4.111			
15,300.0	9,900.0	15,930.1	10,475.0	109.7	110.0	179.99	5,146.0	963.3	570.5	429.7	140.80	4.052			
15,400.0	9,900.0	16,030.1	10,475.0	111.6	111.9	179.99	5,246.0	962.7	570.5	427.7	142.82	3.994			
15,500.0	9,900.0	16,130.1	10,475.0	113.5	113.8	179.98	5,346.0	962.2	570.5	425.6	144.85	3.938			
15,600.0	9,900.0	16,230.1	10,475.0	115.4	115.7	179.98	5,446.0	961.6	570.5	423.6	146.89	3.884			
15,700.0	9,900.0	16,330.1	10,475.0	117.4	117.6	179.98	5,546.0	961.0	570.5	421.6	148.92	3.831			
15,800.0	9,900.0	16,430.1	10,475.0	119.3	119.5	179.98	5,646.0	960.4	570.5	419.5	150.96	3.779			
15,900.0	9,900.0	16,530.1	10,475.0	121.2	121.4	179.98	5,746.0	959.8	570.5	417.5	153.01	3.729			
16,000.0	9,900.0	16,630.1	10,475.0	123.1	123.3	179.98	5,846.0	959.2	570.5	415.4	155.06	3.679			
16,100.0	9,900.0	16,730.1	10,475.0	125.0	125.3	179.98	5,946.0	958.6	570.5	413.4	157.11	3.631			
16,200.0	9,900.0	16,830.1	10,475.0	127.0	127.2	179.98	6,046.0	958.0	570.5	411.3	159.17	3.584			
16,300.0	9,900.0	16,930.1	10,475.0	128.9	129.1	179.98	6,146.0	957.4	570.5	409.3	161.23	3.538			
16,400.0	9,900.0	17,030.1	10,475.0	130.8	131.0	179.98	6,246.0	956.8	570.5	407.2	163.29	3.494			
16,500.0	9,900.0	17,130.1	10,475.0	132.8	133.0	179.98	6,346.0	956.2	570.5	405.1	165.36	3.450			
16,600.0	9,900.0	17,230.1	10,475.0	134.7	134.9	179.98	6,446.0	955.7	570.5	403.1	167.43	3.407			
16,700.0	9,900.0	17,330.1	10,475.0	136.7	136.8	179.98	6,546.0	955.1	570.5	401.0	169.50	3.366			

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 507H
Project:	Hat Mesa	TVD Reference:	WELL @ 3694.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3694.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 507H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 507H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 507H - 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 Toolface (°)	Offset Wellbore Centre		Rule Assigned:				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)	Minimum Separation (usft)	Separation Factor		
16,800.0	9,900.0	17,430.1	10,475.0	138.6	138.8	179.98	6,646.0	954.5	570.5	398.9	171.58	3.325		
16,846.5	9,900.0	17,476.6	10,475.0	139.5	139.7	180.00	6,692.5	954.2	570.5	397.9	172.56	3.306		
16,846.9	9,900.0	17,476.6	10,475.0	139.5	139.7	180.00	6,692.5	954.2	570.5	398.0	172.55	3.306		

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 507H
Project:	Hat Mesa	TVD Reference:	WELL @ 3694.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3694.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 507H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 507H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 507H - 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		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	3.5	3.5	0.0	0.0	-90.69	-0.8	-65.4	65.4			
100.0	100.0	103.5	103.5	0.5	0.6	-90.69	-0.8	-65.4	65.4	64.3	1.11	59.144
200.0	200.0	203.5	203.5	1.7	1.7	-90.69	-0.8	-65.4	65.4	62.0	3.45	18.959
300.0	300.0	303.5	303.5	2.4	2.4	-90.69	-0.8	-65.4	65.4	60.6	4.84	13.506
400.0	400.0	403.5	403.5	3.0	3.0	-90.69	-0.8	-65.4	65.4	59.5	5.93	11.040
500.0	500.0	503.5	503.5	3.4	3.4	-90.69	-0.8	-65.4	65.4	58.6	6.85	9.556
600.0	600.0	603.5	603.5	3.8	3.8	-90.69	-0.8	-65.4	65.4	57.8	7.66	8.537
700.0	700.0	703.5	703.5	4.2	4.2	-90.69	-0.8	-65.4	65.4	57.0	8.41	7.781
800.0	800.0	803.5	803.5	4.5	4.6	-90.69	-0.8	-65.4	65.4	56.3	9.10	7.192
900.0	900.0	903.5	903.5	4.9	4.9	-90.69	-0.8	-65.4	65.4	55.7	9.74	6.715
1,000.0	1,000.0	1,003.5	1,003.5	5.2	5.2	-90.69	-0.8	-65.4	65.4	55.1	10.35	6.319
1,100.0	1,100.0	1,103.5	1,103.5	5.5	5.5	-90.69	-0.8	-65.4	65.4	54.5	10.93	5.983
1,200.0	1,200.0	1,203.5	1,203.5	5.7	5.7	-90.69	-0.8	-65.4	65.4	53.9	11.49	5.693
1,300.0	1,300.0	1,303.5	1,303.5	6.0	6.0	-90.69	-0.8	-65.4	65.4	53.4	12.02	5.440
1,400.0	1,400.0	1,403.5	1,403.5	6.3	6.3	-90.69	-0.8	-65.4	65.4	52.9	12.54	5.216
1,500.0	1,500.0	1,503.5	1,503.5	6.5	6.5	-90.69	-0.8	-65.4	65.4	52.4	13.04	5.016
1,600.0	1,600.0	1,603.5	1,603.5	6.8	6.8	-90.69	-0.8	-65.4	65.4	51.9	13.53	4.836
1,700.0	1,700.0	1,703.5	1,703.5	7.0	7.0	-90.69	-0.8	-65.4	65.4	51.4	14.00	4.673
1,800.0	1,800.0	1,803.5	1,803.5	7.2	7.2	-90.69	-0.8	-65.4	65.4	51.0	14.46	4.524
1,900.0	1,900.0	1,903.5	1,903.5	7.4	7.5	-90.69	-0.8	-65.4	65.4	50.5	14.91	4.388
2,000.0	2,000.0	2,003.5	2,003.5	7.7	7.7	-90.69	-0.8	-65.4	65.4	50.1	15.35	4.262
2,100.0	2,100.0	2,103.5	2,103.5	7.9	7.9	-90.69	-0.8	-65.4	65.4	49.6	15.78	4.146
2,200.0	2,200.0	2,203.5	2,203.5	8.1	8.1	-90.69	-0.8	-65.4	65.4	49.2	16.20	4.038
2,300.0	2,300.0	2,303.5	2,303.5	8.3	8.3	-90.69	-0.8	-65.4	65.4	48.8	16.62	3.937
2,400.0	2,400.0	2,403.5	2,403.5	8.5	8.5	-90.69	-0.8	-65.4	65.4	48.4	17.02	3.843
2,500.0	2,500.0	2,503.5	2,503.5	8.7	8.7	-90.69	-0.8	-65.4	65.4	48.0	17.42	3.754
2,600.0	2,600.0	2,603.5	2,603.5	8.9	8.9	-90.69	-0.8	-65.4	65.4	47.6	17.82	3.671
2,700.0	2,700.0	2,703.5	2,703.5	9.1	9.1	-90.69	-0.8	-65.4	65.4	47.2	18.21	3.592
2,800.0	2,800.0	2,803.5	2,803.5	9.3	9.3	-90.69	-0.8	-65.4	65.4	46.8	18.59	3.518
2,900.0	2,900.0	2,903.5	2,903.5	9.5	9.5	-90.69	-0.8	-65.4	65.4	46.4	18.97	3.448
3,000.0	3,000.0	3,003.5	3,003.5	9.7	9.7	-90.69	-0.8	-65.4	65.4	46.1	19.35	3.381
3,100.0	3,100.0	3,103.5	3,103.5	9.9	9.9	-90.69	-0.8	-65.4	65.4	45.7	19.72	3.318
3,200.0	3,200.0	3,203.5	3,203.5	10.0	10.0	-90.69	-0.8	-65.4	65.4	45.3	20.08	3.257
3,300.0	3,300.0	3,303.5	3,303.5	10.2	10.2	-90.69	-0.8	-65.4	65.4	45.0	20.44	3.200
3,400.0	3,400.0	3,403.5	3,403.5	10.4	10.4	-90.69	-0.8	-65.4	65.4	44.6	20.80	3.145
3,500.0	3,500.0	3,503.5	3,503.5	10.6	10.6	-90.69	-0.8	-65.4	65.4	44.3	21.15	3.092
3,600.0	3,600.0	3,603.5	3,603.5	10.7	10.8	-90.69	-0.8	-65.4	65.4	43.9	21.51	3.042
3,700.0	3,700.0	3,703.5	3,703.5	10.9	10.9	-90.69	-0.8	-65.4	65.4	43.6	21.85	2.993
3,800.0	3,800.0	3,803.5	3,803.5	11.1	11.1	-90.69	-0.8	-65.4	65.4	43.2	22.20	2.947
3,900.0	3,900.0	3,903.5	3,903.5	11.3	11.3	-90.69	-0.8	-65.4	65.4	42.9	22.54	2.902
4,000.0	4,000.0	4,003.5	4,003.5	11.4	11.4	-90.69	-0.8	-65.4	65.4	42.5	22.88	2.859
4,100.0	4,100.0	4,103.5	4,103.5	11.6	11.6	-90.69	-0.8	-65.4	65.4	42.2	23.21	2.818
4,200.0	4,200.0	4,203.5	4,203.5	11.8	11.8	-90.69	-0.8	-65.4	65.4	41.9	23.55	2.778
4,300.0	4,300.0	4,303.5	4,303.5	11.9	11.9	-90.69	-0.8	-65.4	65.4	41.5	23.88	2.740
4,400.0	4,400.0	4,403.5	4,403.5	12.1	12.1	-90.69	-0.8	-65.4	65.4	41.2	24.21	2.702
4,500.0	4,500.0	4,503.5	4,503.5	12.3	12.3	-90.69	-0.8	-65.4	65.4	40.9	24.53	2.667
4,600.0	4,600.0	4,603.5	4,603.5	12.4	12.4	-90.69	-0.8	-65.4	65.4	40.6	24.86	2.632
4,700.0	4,700.0	4,703.5	4,703.5	12.6	12.6	-90.69	-0.8	-65.4	65.4	40.2	25.18	2.598
4,800.0	4,800.0	4,803.5	4,803.5	12.7	12.8	-90.69	-0.8	-65.4	65.4	39.9	25.50	2.566
4,900.0	4,900.0	4,903.5	4,903.5	12.9	12.9	-90.69	-0.8	-65.4	65.4	39.6	25.81	2.534
5,000.0	5,000.0	5,003.5	5,003.5	13.1	13.1	-90.69	-0.8	-65.4	65.4	39.3	26.13	2.503 CC, ES, SF
5,100.0	5,100.0	5,103.5	5,103.5	13.2	13.2	162.54	-0.8	-65.4	66.2	39.8	26.40	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 507H
Project:	Hat Mesa	TVD Reference:	WELL @ 3694.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3694.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 507H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 507H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 507H - 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		Reference		Offset		Semi Major Axis		Highside		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)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
5,200.0	5,200.0	5,203.5	5,203.5	13.3	13.4	163.19	-0.8	-65.4	68.7	42.1	26.66	2.579			
5,300.0	5,299.9	5,303.4	5,303.4	13.4	13.5	164.17	-0.8	-65.4	72.9	46.0	26.93	2.708			
5,400.0	5,399.7	5,403.2	5,403.2	13.5	13.7	165.36	-0.8	-65.4	78.8	51.6	27.22	2.896			
5,500.0	5,499.4	5,502.9	5,502.9	13.7	13.8	166.66	-0.8	-65.4	86.4	58.9	27.53	3.140			
5,600.0	5,598.9	5,602.4	5,602.4	13.9	14.0	167.96	-0.8	-65.4	95.8	67.9	27.86	3.438			
5,700.0	5,698.4	5,703.4	5,703.4	14.1	14.1	168.87	-1.4	-64.7	105.3	77.1	28.16	3.739			
5,800.0	5,797.8	5,804.7	5,804.7	14.3	14.2	169.12	-3.2	-62.6	113.3	84.9	28.45	3.984			
5,900.0	5,897.3	5,906.2	5,906.0	14.5	14.3	168.86	-6.1	-59.2	119.9	91.2	28.76	4.170			
6,000.0	5,996.7	6,006.2	6,005.9	14.8	14.3	168.35	-9.7	-54.9	125.6	96.6	29.07	4.321			
6,100.0	6,096.2	6,106.1	6,105.6	15.1	14.5	167.87	-13.3	-50.7	131.3	101.9	29.44	4.460			
6,200.0	6,195.6	6,205.9	6,205.3	15.4	14.6	167.44	-16.9	-46.5	137.0	107.2	29.84	4.592			
6,300.0	6,295.1	6,305.7	6,305.0	15.7	14.8	167.04	-20.5	-42.2	142.7	112.5	30.27	4.716			
6,400.0	6,394.5	6,405.6	6,404.7	16.0	14.9	166.67	-24.1	-38.0	148.4	117.7	30.71	4.834			
6,500.0	6,494.0	6,505.4	6,504.3	16.3	15.1	166.33	-27.7	-33.8	154.2	123.0	31.18	4.945			
6,600.0	6,593.4	6,605.2	6,604.0	16.7	15.3	166.01	-31.3	-29.5	159.9	128.2	31.66	5.050			
6,700.0	6,692.9	6,705.1	6,703.7	17.0	15.5	165.72	-34.9	-25.3	165.6	133.5	32.17	5.149			
6,800.0	6,792.3	6,804.9	6,803.4	17.4	15.7	165.44	-38.5	-21.1	171.4	138.7	32.69	5.242			
6,900.0	6,891.8	6,904.7	6,903.0	17.8	16.0	165.18	-42.1	-16.8	177.1	143.9	33.23	5.330			
7,000.0	6,991.2	7,004.6	7,002.7	18.2	16.2	164.94	-45.7	-12.6	182.8	149.1	33.78	5.413			
7,100.0	7,090.7	7,104.4	7,102.4	18.6	16.5	164.72	-49.3	-8.4	188.6	154.2	34.35	5.490			
7,200.0	7,190.1	7,204.2	7,202.1	19.0	16.7	164.50	-52.9	-4.1	194.3	159.4	34.93	5.563			
7,300.0	7,289.6	7,304.1	7,301.7	19.4	17.0	164.30	-56.5	0.1	200.1	164.5	35.53	5.631			
7,400.0	7,389.0	7,403.9	7,401.4	19.8	17.3	164.11	-60.2	4.3	205.8	169.7	36.14	5.696			
7,500.0	7,488.5	7,503.7	7,501.1	20.3	17.6	163.93	-63.8	8.6	211.6	174.8	36.76	5.756			
7,600.0	7,587.9	7,603.6	7,600.8	20.7	17.9	163.76	-67.4	12.8	217.3	179.9	37.39	5.813			
7,700.0	7,687.4	7,703.4	7,700.5	21.1	18.2	163.60	-71.0	17.1	223.1	185.1	38.03	5.866			
7,800.0	7,786.9	7,803.2	7,800.1	21.6	18.5	163.45	-74.6	21.3	228.9	190.2	38.69	5.916			
7,900.0	7,886.3	7,903.1	7,899.8	22.0	18.8	163.30	-78.2	25.5	234.6	195.3	39.35	5.963			
8,000.0	7,985.8	8,002.9	7,999.5	22.5	19.2	163.16	-81.8	29.8	240.4	200.4	40.02	6.006			
8,100.0	8,085.2	8,102.7	8,099.2	23.0	19.5	163.03	-85.4	34.0	246.1	205.4	40.70	6.048			
8,200.0	8,184.7	8,202.6	8,198.8	23.4	19.9	162.91	-89.0	38.2	251.9	210.5	41.39	6.086			
8,300.0	8,284.1	8,302.4	8,298.5	23.9	20.2	162.79	-92.6	42.5	257.7	215.6	42.09	6.123			
8,400.0	8,383.6	8,402.2	8,398.2	24.4	20.6	162.67	-96.2	46.7	263.4	220.7	42.79	6.157			
8,500.0	8,483.0	8,502.0	8,497.9	24.9	20.9	162.56	-99.8	50.9	269.2	225.7	43.50	6.189			
8,600.0	8,582.5	8,601.9	8,597.6	25.3	21.3	162.45	-103.4	55.2	275.0	230.8	44.22	6.219			
8,700.0	8,681.9	8,701.7	8,697.2	25.8	21.7	162.35	-107.0	59.4	280.8	235.8	44.94	6.247			
8,800.0	8,781.4	8,801.5	8,796.9	26.3	22.0	162.26	-110.6	63.6	286.5	240.9	45.67	6.274			
8,900.0	8,880.8	8,901.4	8,896.6	26.8	22.4	162.16	-114.2	67.9	292.3	245.9	46.41	6.299			
9,000.0	8,980.3	9,001.2	8,996.3	27.3	22.8	162.07	-117.8	72.1	298.1	250.9	47.15	6.322			
9,100.0	9,079.7	9,101.0	9,095.9	27.8	23.2	161.99	-121.4	76.3	303.8	255.9	47.89	6.344			
9,205.8	9,185.0	9,206.7	9,201.4	28.3	23.6	161.90	-125.2	80.8	310.0	261.3	48.69	6.365			
9,225.0	9,204.0	9,225.8	9,220.5	28.4	23.7	161.17	-125.9	81.6	311.4	262.6	48.84	6.376			
9,250.0	9,228.6	9,250.6	9,245.3	28.6	23.8	160.66	-126.8	82.7	314.4	265.3	49.07	6.407			
9,275.0	9,253.0	9,275.2	9,269.9	28.8	23.9	160.38	-127.7	83.7	318.6	269.3	49.33	6.458			
9,300.0	9,277.1	9,299.6	9,294.2	28.9	24.0	160.21	-128.6	84.8	324.0	274.4	49.62	6.531			
9,325.0	9,300.7	9,323.7	9,318.2	29.1	24.1	160.12	-129.5	85.8	330.6	280.7	49.92	6.624			
9,350.0	9,323.9	9,347.3	9,341.8	29.3	24.2	160.07	-130.3	86.8	338.4	288.2	50.23	6.737			
9,375.0	9,346.6	9,370.5	9,365.0	29.5	24.3	160.04	-131.2	87.8	347.4	296.8	50.56	6.871			
9,400.0	9,368.7	9,393.2	9,387.6	29.6	24.4	160.02	-132.0	88.7	357.5	306.6	50.89	7.024			
9,425.0	9,390.2	9,415.3	9,409.7	29.8	24.4	159.99	-132.8	89.7	368.7	317.5	51.23	7.197			
9,450.0	9,411.0	9,436.8	9,431.1	30.0	24.5	159.95	-133.6	90.6	381.1	329.5	51.57	7.389			
9,475.0	9,431.0	9,457.5	9,451.9	30.2	24.6	159.88	-134.3	91.5	394.5	342.6	51.92	7.600			

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 507H
Project:	Hat Mesa	TVD Reference:	WELL @ 3694.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3694.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 507H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 507H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 507H - 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
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
9,500.0	9,450.2	9,477.5	9,471.8	30.3	24.7	159.76	-135.0	92.3	409.0	356.8	52.25	7.828	
9,525.0	9,468.5	9,496.7	9,491.0	30.5	24.8	159.58	-135.7	93.1	424.5	371.9	52.58	8.074	
9,550.0	9,486.0	9,515.1	9,509.3	30.7	24.8	159.33	-136.4	93.9	441.0	388.1	52.91	8.336	
9,571.0	9,499.9	9,529.8	9,524.0	30.8	24.9	159.05	-136.9	94.5	455.6	402.5	53.17	8.570	
9,575.0	9,502.5	9,532.5	9,526.7	30.8	24.9	160.03	-137.0	94.7	458.4	405.2	53.22	8.615	
9,600.0	9,518.7	9,549.7	9,543.9	30.9	25.0	166.16	-137.6	95.4	476.3	422.8	53.48	8.905	
9,625.0	9,535.2	9,567.0	9,561.2	31.1	25.1	172.15	-138.3	96.1	494.2	440.4	53.72	9.199	
9,650.0	9,551.7	9,584.5	9,578.6	31.2	25.1	177.96	-138.9	96.9	512.1	458.1	53.93	9.495	
9,675.0	9,568.4	9,601.9	9,596.0	31.3	25.2	-176.43	-139.5	97.6	529.9	475.8	54.11	9.794	
9,700.0	9,585.0	9,619.4	9,613.5	31.5	25.3	-171.03	-140.1	98.3	547.7	493.5	54.27	10.093	
9,725.0	9,601.7	9,636.8	9,630.8	31.6	25.3	-165.85	-140.8	99.1	565.4	511.0	54.40	10.393	
9,750.0	9,618.3	9,654.1	9,648.1	31.7	25.4	-160.90	-141.4	99.8	582.9	528.4	54.51	10.694	
9,775.0	9,634.8	9,671.2	9,665.2	31.8	25.5	-156.19	-142.0	100.5	600.3	545.7	54.59	10.995	
9,800.0	9,651.2	9,688.1	9,682.1	32.0	25.5	-151.71	-142.6	101.3	617.4	562.8	54.65	11.297	
9,825.0	9,667.4	9,704.8	9,698.8	32.1	25.6	-147.46	-143.2	102.0	634.4	579.7	54.69	11.599	
9,850.0	9,683.3	9,721.2	9,715.1	32.2	25.7	-143.43	-143.8	102.7	651.1	596.4	54.70	11.903	
9,875.0	9,699.0	9,737.3	9,731.2	32.3	25.7	-139.62	-144.4	103.3	667.6	613.0	54.69	12.208	
9,900.0	9,714.3	9,753.0	9,746.8	32.5	25.8	-136.02	-145.0	104.0	684.0	629.3	54.65	12.515	
9,925.0	9,729.3	9,768.2	9,762.1	32.6	25.9	-132.63	-145.5	104.7	700.1	645.5	54.59	12.824	
9,950.0	9,743.9	9,783.0	9,776.8	32.7	25.9	-129.42	-146.1	105.3	715.9	661.4	54.50	13.136	
9,975.0	9,758.0	9,797.3	9,791.1	32.9	26.0	-126.40	-146.6	105.9	731.6	677.2	54.39	13.451	
10,000.0	9,771.6	9,811.0	9,804.8	33.0	26.0	-123.54	-147.1	106.5	747.1	692.8	54.25	13.770	
10,025.0	9,784.7	9,824.2	9,817.9	33.1	26.1	-120.84	-147.5	107.0	762.3	708.2	54.09	14.093	
10,050.0	9,797.3	9,836.7	9,830.5	33.3	26.2	-118.29	-148.0	107.6	777.3	723.4	53.91	14.420	
10,075.0	9,809.3	9,848.6	9,842.3	33.4	26.2	-115.88	-148.4	108.1	792.2	738.5	53.70	14.752	
10,100.0	9,820.6	9,859.8	9,853.5	33.6	26.3	-113.59	-148.8	108.5	806.8	753.3	53.47	15.089	
10,125.0	9,831.3	9,870.3	9,864.0	33.7	26.3	-111.42	-149.2	109.0	821.2	768.0	53.22	15.431	
10,150.0	9,841.3	9,880.0	9,873.7	33.8	26.3	-109.36	-149.6	109.4	835.4	782.5	52.95	15.779	
10,175.0	9,850.6	9,888.9	9,882.6	34.0	26.4	-107.39	-149.9	109.8	849.4	796.8	52.65	16.132	
10,200.0	9,859.1	9,897.1	9,890.8	34.2	26.4	-105.52	-150.2	110.1	863.2	810.9	52.35	16.491	
10,225.0	9,866.9	9,904.4	9,898.1	34.3	26.4	-103.74	-150.4	110.4	876.8	824.8	52.02	16.855	
10,250.0	9,873.9	9,910.9	9,904.6	34.5	26.5	-102.04	-150.7	110.7	890.1	838.5	51.68	17.224	
10,275.0	9,880.1	9,916.6	9,910.2	34.6	26.5	-100.42	-150.9	110.9	903.3	852.0	51.33	17.598	
10,300.0	9,885.5	9,921.4	9,915.0	34.8	26.5	-98.87	-151.1	111.2	916.2	865.2	50.97	17.976	
10,325.0	9,890.1	9,925.2	9,918.9	34.9	26.5	-97.40	-151.2	111.3	928.8	878.2	50.60	18.358	
10,350.0	9,893.8	9,928.2	9,921.8	35.1	26.5	-96.00	-151.3	111.4	941.2	891.0	50.22	18.742	
10,375.0	9,896.6	9,930.3	9,923.9	35.3	26.5	-94.68	-151.4	111.5	953.3	903.5	49.84	19.129	
10,400.0	9,898.6	9,931.5	9,925.1	35.4	26.5	-93.43	-151.4	111.6	965.1	915.7	49.45	19.517	
10,425.0	9,899.7	9,931.8	9,925.4	35.6	26.5	-92.25	-151.4	111.6	976.6	927.6	49.07	19.904	
10,444.5	9,900.0	9,931.3	9,924.9	35.7	26.5	-91.39	-151.4	111.6	985.4	936.6	48.76	20.206	

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 507H
Project:	Hat Mesa	TVD Reference:	WELL @ 3694.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3694.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 507H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 507H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 507H - Prelim 1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 3694.5usft (Original Well Ele

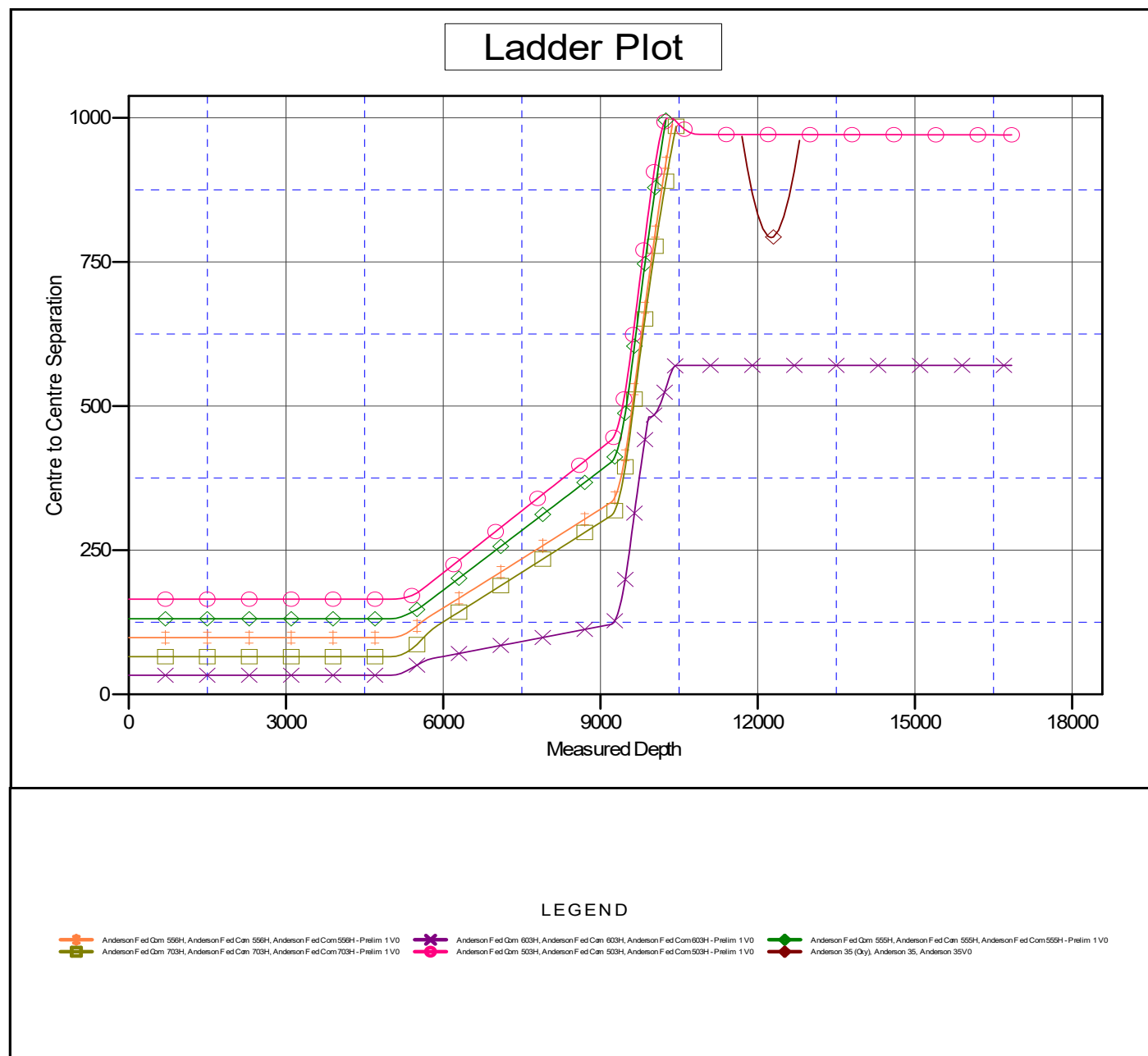
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Anderson Fed Com 507H

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 507H
Project:	Hat Mesa	TVD Reference:	WELL @ 3694.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3694.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
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Well Error:	0.0 usft	Output errors are at	2.79 sigma
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Reference Design:	Anderson Fed Com 507H - Prelim 1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 3694.5usft (Original Well Ele

Offset Depths are relative to Offset Datum

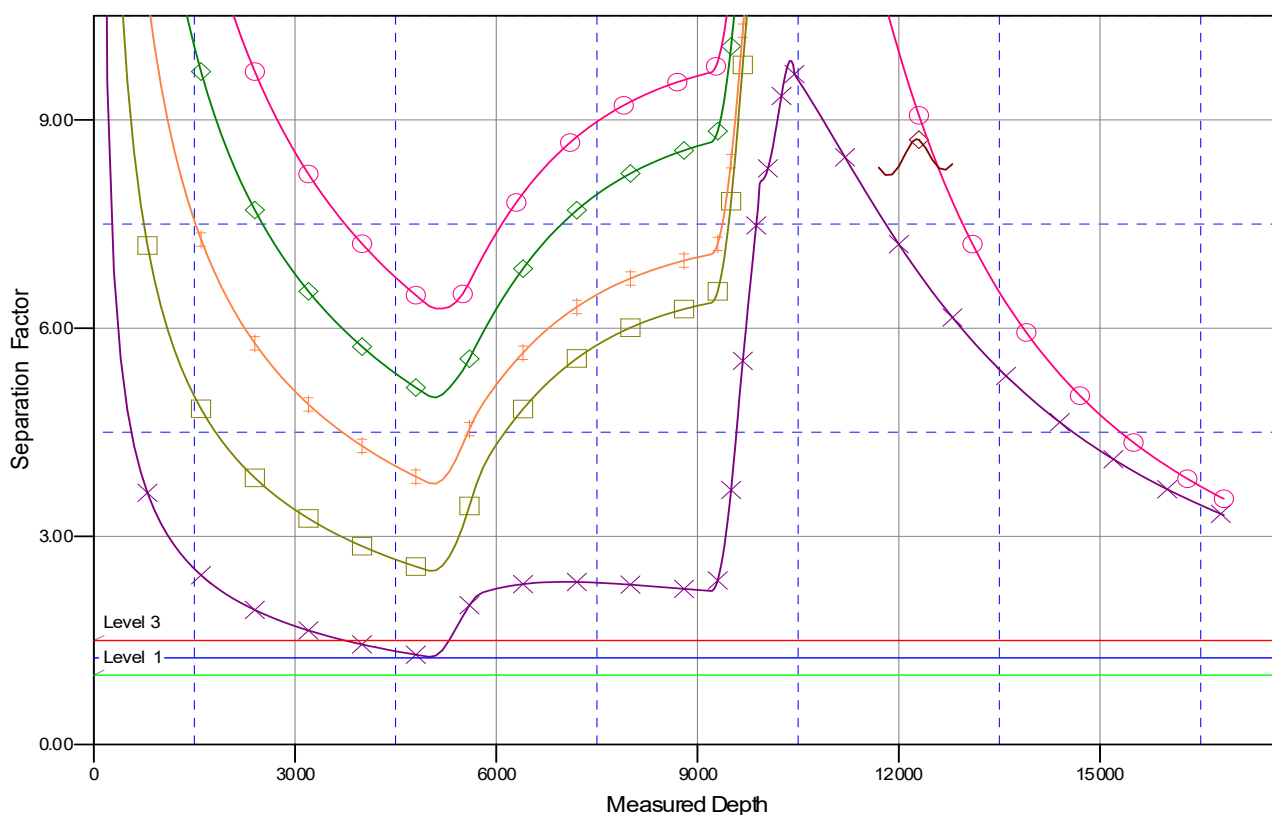
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Anderson Fed Com 507H

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

Grid Convergence at Surface is: 0.37°

Separation Factor Plot



LEGEND

— Anderson Fed Com 556H, Anderson Fed Com 556H, Anderson Fed Com 556H - Prelim 1 V0
 — Anderson Fed Com 603H, Anderson Fed Com 603H, Anderson Fed Com 603H - Prelim 1 V0
 — Anderson Fed Com 559H, Anderson Fed Com 559H, Anderson Fed Com 559H - Prelim 1 V0
— Anderson Fed Com 703H, Anderson Fed Com 703H, Anderson Fed Com 703H - Prelim 1 V0
 — Anderson Fed Com 503H, Anderson Fed Com 503H, Anderson Fed Com 503H - Prelim 1 V0
 — Anderson 35 (Qty), Anderson 35, Anderson 35V0

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 62084

CONDITIONS

Operator: ADVANCE ENERGY PARTNERS HAT MESA, LLC 11490 Westheimer Rd., Ste 950 Houston, TX 77077	OGRID: 372417
	Action Number: 62084
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	REQUIRES NSL	11/16/2021