

Well Name: ANDERSON FED COM	Well Location: T22S / R32E / SEC 2 / LOT 3 /	County or Parish/State:
Well Number: 506H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM120905	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002549404	Well Status: Approved Application for Permit to Drill	Operator: ADVANCE ENERGY PARTNERS HAT MESA LLC

Notice of Intent

Sundry ID: 2643025

Type of Submission: Notice of Intent

Date Sundry Submitted: 11/04/2021

Date proposed operation will begin: 11/12/2021

Type of Action: Other

Time Sundry Submitted: 12:17

Procedure Description: The purpose of this sundry is to request a correction to previously approved BLM Sundry ID 2636142. We request to move the Surface Hole Location from 180' FNL & 2188' FWL, Section 2, T-22-S, R-32-E, Lot 3 back to 180' FNL & 2122' FWL, Section 2, T-22-S, R-32-E, Lot 3. The Bottom Hole Location will remain changed as was approved in BLM Sundry ID 2636142 at 1220' FSL & 2178' FWL, Section 26, T-21-S, R-32-E, SESW. The target formation will remain changed as was approved in BLM Sundry ID 2636142 as the 1st Bone Spring sandstone. 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_506H_SHL_BHL_etc_Sundry2.0_Attachment_20211104121529.pdf

Well Name: ANDERSON FED COM	Well Location: T22S / R32E / SEC 2 / LOT 3 /	County or Parish/State:
Well Number: 506H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM120905	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002549404	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: NOV 04, 2021 12:15 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: 11/23/2021
Signature: Chris Walls	

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone (575) 393-6161 Fax: (575) 393-0720

DISTRICT II
811 S. First St., Artesia, NM 88210
Phone (575) 748-1283 Fax: (575) 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) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources Department

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

Form C-102

Revised August 4, 2011

Submit one copy to appropriate
District Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-49404	Pool Code 51683	Pool Name Red Tank; Bone Spring
Property Code 326484	Property Name ANDERSON FED COM	Well Number 506H
OGRID No. 372417	Operator Name ADVANCE ENERGY PARTNERS HAT MESA, LLC	Elevation 3672'

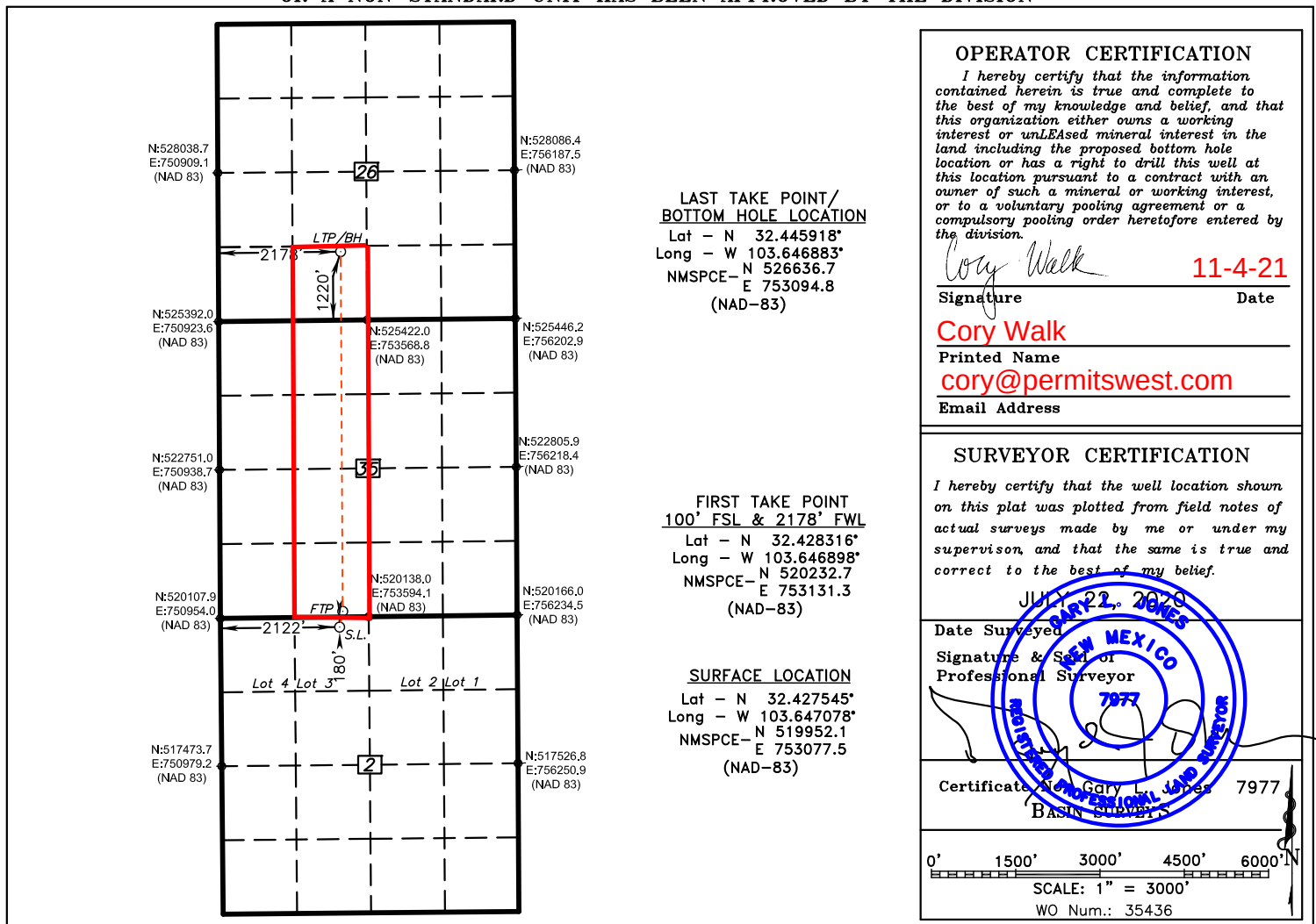
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	SOUTH/South line	Feet from the	East/West line	County
LOT 3	2	22 S	32 E		180	NORTH	2122	WEST	LEA

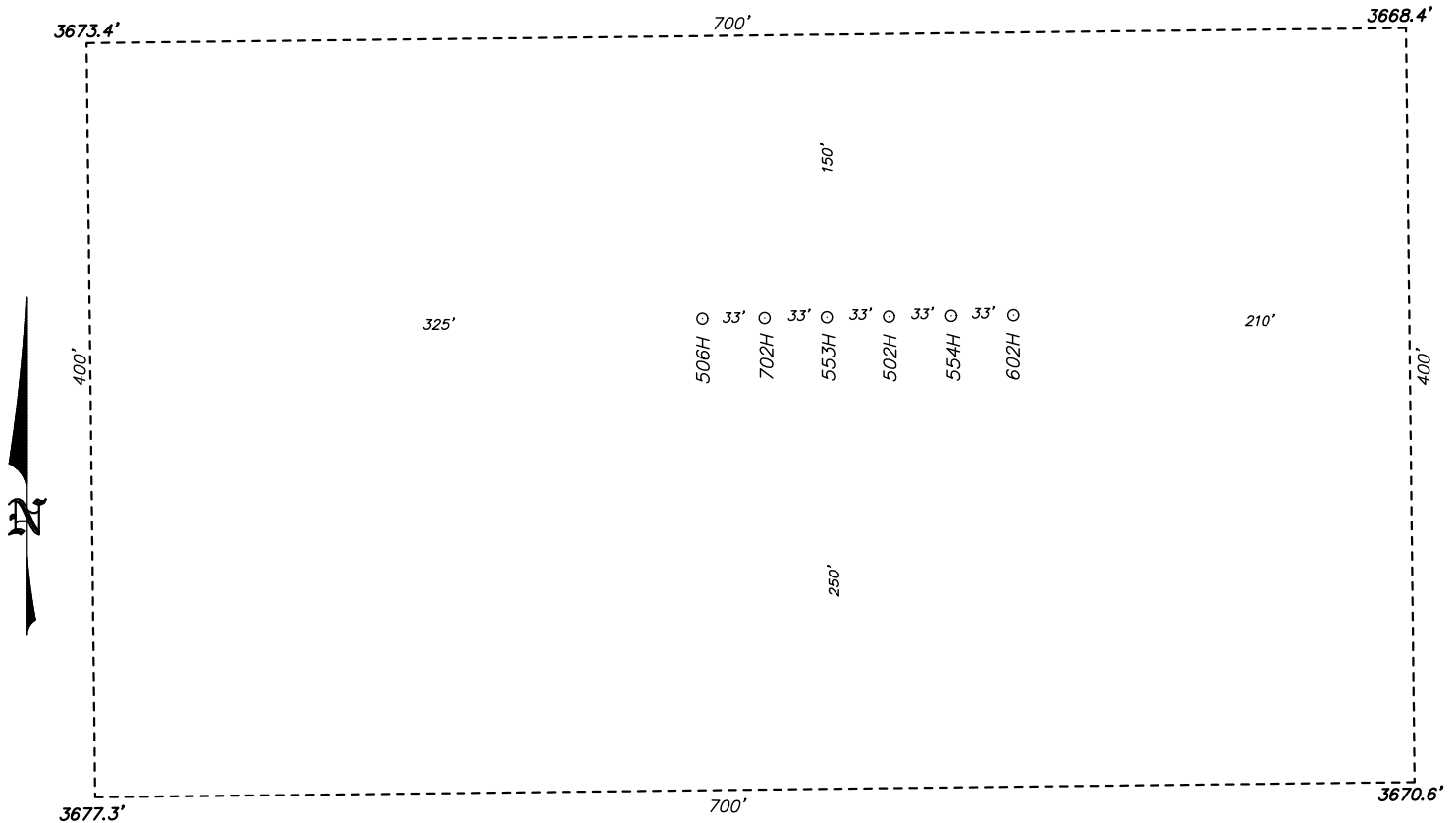
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	SOUTH/South line	Feet from the	East/West line	County
N	26	21 S	32 E		1220	SOUTH	2178	WEST	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 506H / WELL PAD TOPO

THE ANDERSON FED COM 506H LOCATED 180' FROM
THE NORTH LINE AND 2122' FROM THE WEST LINE OF
SECTION 2, TOWNSHIP 22 SOUTH, RANGE 32 EAST.

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

W.O. Number: 35436	Drawn By: K. GOAD	Date: 07-23-2020	Survey Date: 07-22-2020	Sheet 1 of 1 Sheets
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CHANGE TO PLANS

Move Surface Hole Location

From: 180' FNL & 2188' FWL, Section 2, T-22-S, R-32-E, Lot 3

To: 180' FNL & 2122' FWL, Section 2, T-22-S, R-32-E, Lot 3

First Take Point: remains the same as was approved in BLM Sundry ID 2636142

100' FSL & 2178' FWL, Section 35, T-21-S, R-32-E, SESW

Bottom Hole Location: remains the same as was approved in BLM Sundry ID 2636142

1220' FSL & 2178' FWL, Section 26, T-21-S, R-32-E, SESW

Target Formation: remains the same as was approved in BLM Sundry ID 2636142

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 506H
 SHL 180' FNL & 2122' FWL Section 2, T22S, R32E
 BHL 1220' FSL & 2178' FWL 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 @ 1232')	1207'	1207'	N/A
Salado salt	1401'	1401'	Salt
Tansil limestone (Intermediate csg set @ TVD 4734')	3297'	3297'	N/A
Bell Canyon sandstone	4784'	4784'	hydrocarbons
Lower Brushy Canyon sandstone	8431'	8435'	hydrocarbons
Bone Spring Lime	8758'	8780'	hydrocarbons
Avalon shale	8951'	8956'	Hydrocarbons
KOP	9423'	9427'	hydrocarbons
1 st Bone Spring sandstone	9818'	9894'	hydrocarbons
TD	9900'	16584'	hydrocarbons

2. NOTABLE ZONES

Bone Spring sand is the goal. Closest water well (CP 01701 POD 1) is 0.53 miles northwest. 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 506H
 SHL 180' FNL & 2122' FWL Section 2, T22S, R32E
 BHL 1220' FSL & 2178' FWL 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	1232	0	1232	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	4734	4000	4734	HCL-80	40	LTC	1.125	1.125	1.6
Production	8.75"	5.5"	No	0	16584	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 506H
 SHL 180' FNL & 2122' FWL Section 2, T22S, R32E
 BHL 1220' FSL & 2178' FWL 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	510	1.9	969	12.8	50%	B Poz + C	6% Gel + 5% SALT + 0.25PPS Pol-E-Flake + 0.005GPS NoFoam V1A
	Tail	932	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	718%	B Poz + C	2% Gel + 5% SALT + 0.15% R1300 + 0.25PPS Pol-E-Flake + 0.005GPS NoFoam V1A
	Tail	3787	275	1.37	377	14.8	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% SuspendaCem 6302 + 0.5% C-47B + 3PPS Gilsonite + 0.005GPS NoFoam V1A
	Tail	2395	100	1.33	133	14.8	0%	C	0.005GPS NoFoam V1A
Production	Lead	0	840	3.39	2848	10.7	50%	Prolite	5PPS Plexcrete STE + 2% SMS + 0.05% SuspendaCem 6302 + 0.4% R-1300 + 0.5% C-47B + 3PPS Gilsonite + 0.005GPS NoFoam V1A
	Tail	9427	1630	1.22	1989	14.5	20%	B Poz + H	5% SALT + 0.05% SuspendaCem 6302 + 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	1232	FW Spud Mud	8.4 - 10.0	28 - 36	NC
Intermediate 1	1232	4734	Brine Water	10.0 - 10.5	28 - 32	NC
Production	4734	9427	Cut Brine	9.2 - 9.5	28 - 30	NC
Production	9427	16584	OBM	9.5 - 9.8	55 - 65	6 - 8

Advance Energy Partners Hat Mesa, LLC
Anderson Fed Com 506H
SHL 180' FNL & 2122' FWL Section 2, T22S, R32E
BHL 1220' FSL & 2178' FWL 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 506H**

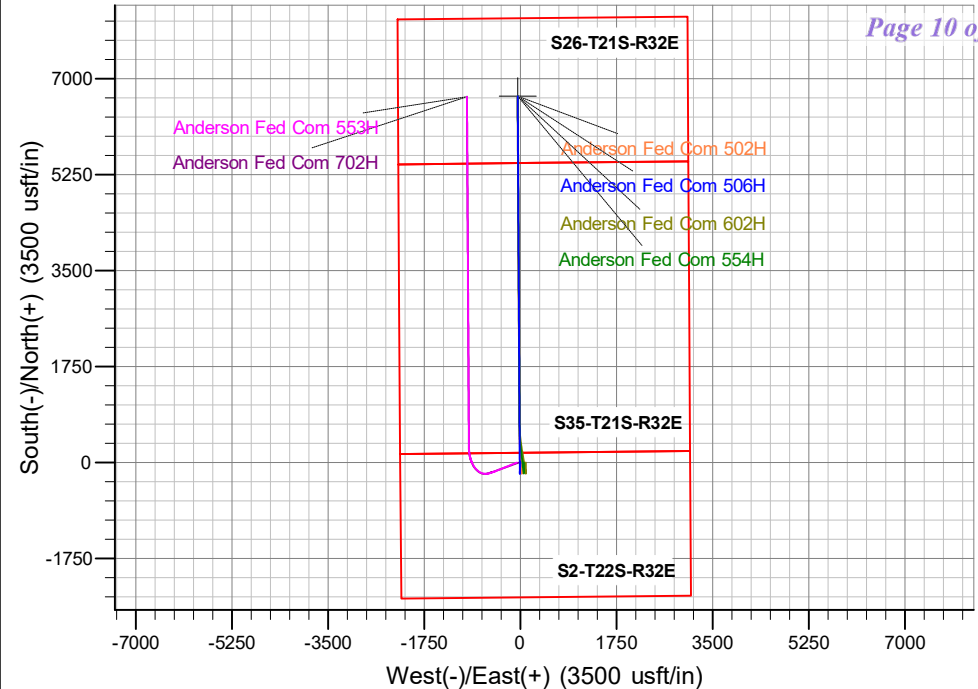
Ground Elev: 3671.0 KB: 3703.5

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	519952.79	753143.60	32° 25' 39.166 N	103° 38' 48.710 W

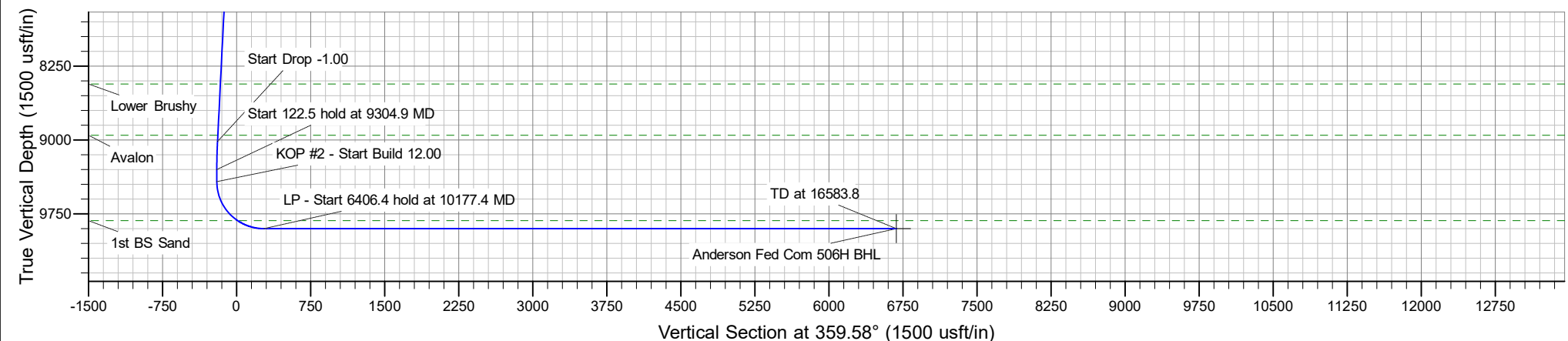
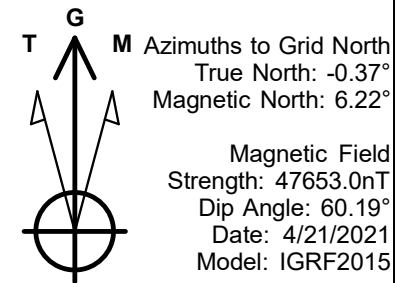
PROJECT DETAILS: Hat Mesa

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	5285.6	2.86	182.86	5285.5	-7.1	-0.4	1.00	182.86	-7.1	Start 3733.7 hold at 5285.6 MD
4	9019.3	2.86	182.86	9014.5	-192.9	-9.6	0.00	0.00	-192.8	Start Drop -1.00
5	9304.9	0.00	0.00	9300.0	-200.0	-10.0	1.00	180.00	-199.9	Start 122.5 hold at 9304.9 MD
6	9427.4	0.00	0.00	9422.5	-200.0	-10.0	0.00	0.00	-199.9	KOP #2 - Start Build 12.00
7	10177.4	90.00	359.68	9900.0	277.5	-12.7	12.00	359.68	277.5	LP - Start 6406.4 hold at 10177.4 MD
8	16583.8	90.00	359.68	9900.0	6683.8	-48.8	0.00	0.00	6684.0	TD at 16583.8





Advance Energy Partners

Hat Mesa

Anderson Fed Com - Pad C

Anderson Fed Com 506H

Anderson Fed Com 506H

Plan: Anderson Fed Com 506H - Prelim 2

Standard Planning Report

28 July, 2021



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Anderson Fed Com 506H
Company:	Advance Energy Partners	TVD Reference:	WELL @ 3703.5usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3703.5usft (Original Well Elev)
Site:	Anderson Fed Com - Pad C	North Reference:	Grid
Well:	Anderson Fed Com 506H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 506H		
Design:	Anderson Fed Com 506H - Prelim 2		

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 C			
Site Position:		Northing:	519,952.78 usft	Latitude:	32° 25' 39.166 N
From:	Lat/Long	Easting:	753,142.98 usft	Longitude:	103° 38' 48.718 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "		

Well	Anderson Fed Com 506H					
Well Position	+N/-S	0.0 usft	Northing:	519,952.79 usft	Latitude:	32° 25' 39.166 N
	+E/-W	0.0 usft	Easting:	753,143.60 usft	Longitude:	103° 38' 48.710 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,671.0 usft
Grid Convergence:		0.37 °				

Wellbore	Anderson Fed Com 506H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	4/21/2021	6.59	60.19	47,652.98149963

Design	Anderson Fed Com 506H - Prelim 2				
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	359.58	

Plan Survey Tool Program	Date	7/28/2021			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	16,583.8	Anderson Fed Com 506H - 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	
5,285.6	2.86	182.86	5,285.5	-7.1	-0.4	1.00	1.00	0.00	182.86	
9,019.3	2.86	182.86	9,014.5	-192.9	-9.6	0.00	0.00	0.00	0.00	
9,304.9	0.00	0.00	9,300.0	-200.0	-10.0	1.00	-1.00	0.00	180.00	
9,427.4	0.00	0.00	9,422.5	-200.0	-10.0	0.00	0.00	0.00	0.00	
10,177.4	90.00	359.68	9,900.0	277.5	-12.7	12.00	12.00	0.00	359.68	
16,583.8	90.00	359.68	9,900.0	6,683.8	-48.8	0.00	0.00	0.00	0.00	Anderson Fed Com 506H



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Anderson Fed Com 506H
Company:	Advance Energy Partners	TVD Reference:	WELL @ 3703.5usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3703.5usft (Original Well Elev)
Site:	Anderson Fed Com - Pad C	North Reference:	Grid
Well:	Anderson Fed Com 506H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 506H		
Design:	Anderson Fed Com 506H - Prelim 2		

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
1,207.0	0.00	0.00	1,207.0	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
4,784.0	0.00	0.00	4,784.0	0.0	0.0	0.0	0.00	0.00	0.00
Base of Limestone									
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Anderson Fed Com 506H
Company:	Advance Energy Partners	TVD Reference:	WELL @ 3703.5usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3703.5usft (Original Well Elev)
Site:	Anderson Fed Com - Pad C	North Reference:	Grid
Well:	Anderson Fed Com 506H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 506H		
Design:	Anderson Fed Com 506H - Prelim 2		

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	182.86	5,100.0	-0.9	0.0	-0.9	1.00	1.00	0.00
5,200.0	2.00	182.86	5,200.0	-3.5	-0.2	-3.5	1.00	1.00	0.00
5,285.6	2.86	182.86	5,285.5	-7.1	-0.4	-7.1	1.00	1.00	0.00
Start 3733.7 hold at 5285.6 MD									
5,300.0	2.86	182.86	5,299.9	-7.8	-0.4	-7.8	0.00	0.00	0.00
5,400.0	2.86	182.86	5,399.7	-12.8	-0.6	-12.8	0.00	0.00	0.00
5,500.0	2.86	182.86	5,499.6	-17.8	-0.9	-17.8	0.00	0.00	0.00
5,600.0	2.86	182.86	5,599.5	-22.8	-1.1	-22.7	0.00	0.00	0.00
5,700.0	2.86	182.86	5,699.4	-27.7	-1.4	-27.7	0.00	0.00	0.00
5,800.0	2.86	182.86	5,799.2	-32.7	-1.6	-32.7	0.00	0.00	0.00
5,900.0	2.86	182.86	5,899.1	-37.7	-1.9	-37.7	0.00	0.00	0.00
6,000.0	2.86	182.86	5,999.0	-42.7	-2.1	-42.6	0.00	0.00	0.00
6,100.0	2.86	182.86	6,098.9	-47.6	-2.4	-47.6	0.00	0.00	0.00
6,200.0	2.86	182.86	6,198.7	-52.6	-2.6	-52.6	0.00	0.00	0.00
6,300.0	2.86	182.86	6,298.6	-57.6	-2.9	-57.6	0.00	0.00	0.00
6,400.0	2.86	182.86	6,398.5	-62.6	-3.1	-62.5	0.00	0.00	0.00
6,500.0	2.86	182.86	6,498.4	-67.5	-3.4	-67.5	0.00	0.00	0.00
6,600.0	2.86	182.86	6,598.2	-72.5	-3.6	-72.5	0.00	0.00	0.00
6,700.0	2.86	182.86	6,698.1	-77.5	-3.9	-77.5	0.00	0.00	0.00
6,800.0	2.86	182.86	6,798.0	-82.5	-4.1	-82.4	0.00	0.00	0.00
6,900.0	2.86	182.86	6,897.9	-87.4	-4.4	-87.4	0.00	0.00	0.00
7,000.0	2.86	182.86	6,997.8	-92.4	-4.6	-92.4	0.00	0.00	0.00
7,100.0	2.86	182.86	7,097.6	-97.4	-4.9	-97.4	0.00	0.00	0.00
7,200.0	2.86	182.86	7,197.5	-102.4	-5.1	-102.3	0.00	0.00	0.00
7,300.0	2.86	182.86	7,297.4	-107.3	-5.4	-107.3	0.00	0.00	0.00
7,400.0	2.86	182.86	7,397.3	-112.3	-5.6	-112.3	0.00	0.00	0.00
7,500.0	2.86	182.86	7,497.1	-117.3	-5.9	-117.2	0.00	0.00	0.00
7,600.0	2.86	182.86	7,597.0	-122.3	-6.1	-122.2	0.00	0.00	0.00
7,700.0	2.86	182.86	7,696.9	-127.2	-6.4	-127.2	0.00	0.00	0.00
7,800.0	2.86	182.86	7,796.8	-132.2	-6.6	-132.2	0.00	0.00	0.00
7,900.0	2.86	182.86	7,896.6	-137.2	-6.9	-137.1	0.00	0.00	0.00
8,000.0	2.86	182.86	7,996.5	-142.2	-7.1	-142.1	0.00	0.00	0.00
8,100.0	2.86	182.86	8,096.4	-147.1	-7.4	-147.1	0.00	0.00	0.00
8,200.0	2.86	182.86	8,196.3	-152.1	-7.6	-152.1	0.00	0.00	0.00
8,300.0	2.86	182.86	8,296.1	-157.1	-7.9	-157.0	0.00	0.00	0.00
8,400.0	2.86	182.86	8,396.0	-162.1	-8.1	-162.0	0.00	0.00	0.00
8,435.0	2.86	182.86	8,431.0	-163.8	-8.2	-163.8	0.00	0.00	0.00
Lower Brushy									
8,500.0	2.86	182.86	8,495.9	-167.1	-8.4	-167.0	0.00	0.00	0.00
8,600.0	2.86	182.86	8,595.8	-172.0	-8.6	-172.0	0.00	0.00	0.00
8,700.0	2.86	182.86	8,695.6	-177.0	-8.9	-176.9	0.00	0.00	0.00
8,800.0	2.86	182.86	8,795.5	-182.0	-9.1	-181.9	0.00	0.00	0.00
8,900.0	2.86	182.86	8,895.4	-187.0	-9.3	-186.9	0.00	0.00	0.00
8,955.7	2.86	182.86	8,951.0	-189.7	-9.5	-189.7	0.00	0.00	0.00
Avalon									
9,000.0	2.86	182.86	8,995.3	-191.9	-9.6	-191.9	0.00	0.00	0.00
9,019.3	2.86	182.86	9,014.5	-192.9	-9.6	-192.8	0.00	0.00	0.00
Start Drop -1.00									
9,100.0	2.05	182.86	9,095.2	-196.3	-9.8	-196.3	1.00	-1.00	0.00
9,200.0	1.05	182.86	9,195.1	-199.0	-10.0	-199.0	1.00	-1.00	0.00
9,300.0	0.05	182.86	9,295.1	-200.0	-10.0	-199.9	1.00	-1.00	0.00



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Anderson Fed Com 506H
Company:	Advance Energy Partners	TVD Reference:	WELL @ 3703.5usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3703.5usft (Original Well Elev)
Site:	Anderson Fed Com - Pad C	North Reference:	Grid
Well:	Anderson Fed Com 506H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 506H		
Design:	Anderson Fed Com 506H - Prelim 2		

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)
9,304.9	0.00	0.00	9,300.0	-200.0	-10.0	-199.9	1.00	-1.00	0.00
Start 122.5 hold at 9304.9 MD									
9,400.0	0.00	0.00	9,395.1	-200.0	-10.0	-199.9	0.00	0.00	0.00
9,427.4	0.00	0.00	9,422.5	-200.0	-10.0	-199.9	0.00	0.00	0.00
KOP #2 - Start Build 12.00									
9,500.0	8.71	359.68	9,494.8	-194.5	-10.0	-194.4	12.00	12.00	0.00
9,600.0	20.71	359.68	9,591.4	-169.1	-10.2	-169.1	12.00	12.00	0.00
9,700.0	32.71	359.68	9,680.6	-124.3	-10.4	-124.2	12.00	12.00	0.00
9,800.0	44.71	359.68	9,758.4	-61.9	-10.8	-61.8	12.00	12.00	0.00
9,893.4	55.92	359.68	9,818.0	9.9	-11.2	10.0	12.00	12.00	0.00
1st BS Sand									
9,900.0	56.71	359.68	9,821.7	15.4	-11.2	15.5	12.00	12.00	0.00
10,000.0	68.71	359.68	9,867.4	104.1	-11.7	104.2	12.00	12.00	0.00
10,100.0	80.71	359.68	9,893.7	200.4	-12.3	200.5	12.00	12.00	0.00
10,177.4	90.00	359.68	9,900.0	277.5	-12.7	277.5	12.00	12.00	0.00
LP - Start 6406.4 hold at 10177.4 MD									
10,200.0	90.00	359.68	9,900.0	300.0	-12.8	300.1	0.00	0.00	0.00
10,300.0	90.00	359.68	9,900.0	400.0	-13.4	400.1	0.00	0.00	0.00
10,400.0	90.00	359.68	9,900.0	500.0	-13.9	500.1	0.00	0.00	0.00
10,500.0	90.00	359.68	9,900.0	600.0	-14.5	600.1	0.00	0.00	0.00
10,600.0	90.00	359.68	9,900.0	700.0	-15.1	700.1	0.00	0.00	0.00
10,700.0	90.00	359.68	9,900.0	800.0	-15.6	800.1	0.00	0.00	0.00
10,800.0	90.00	359.68	9,900.0	900.0	-16.2	900.1	0.00	0.00	0.00
10,900.0	90.00	359.68	9,900.0	1,000.0	-16.8	1,000.1	0.00	0.00	0.00
11,000.0	90.00	359.68	9,900.0	1,100.0	-17.3	1,100.1	0.00	0.00	0.00
11,100.0	90.00	359.68	9,900.0	1,200.0	-17.9	1,200.1	0.00	0.00	0.00
11,200.0	90.00	359.68	9,900.0	1,300.0	-18.5	1,300.1	0.00	0.00	0.00
11,300.0	90.00	359.68	9,900.0	1,400.0	-19.0	1,400.1	0.00	0.00	0.00
11,400.0	90.00	359.68	9,900.0	1,500.0	-19.6	1,500.1	0.00	0.00	0.00
11,500.0	90.00	359.68	9,900.0	1,600.0	-20.1	1,600.1	0.00	0.00	0.00
11,600.0	90.00	359.68	9,900.0	1,700.0	-20.7	1,700.1	0.00	0.00	0.00
11,700.0	90.00	359.68	9,900.0	1,800.0	-21.3	1,800.1	0.00	0.00	0.00
11,800.0	90.00	359.68	9,900.0	1,900.0	-21.8	1,900.1	0.00	0.00	0.00
11,900.0	90.00	359.68	9,900.0	2,000.0	-22.4	2,000.1	0.00	0.00	0.00
12,000.0	90.00	359.68	9,900.0	2,100.0	-23.0	2,100.1	0.00	0.00	0.00
12,100.0	90.00	359.68	9,900.0	2,200.0	-23.5	2,200.1	0.00	0.00	0.00
12,200.0	90.00	359.68	9,900.0	2,300.0	-24.1	2,300.1	0.00	0.00	0.00
12,300.0	90.00	359.68	9,900.0	2,400.0	-24.7	2,400.1	0.00	0.00	0.00
12,400.0	90.00	359.68	9,900.0	2,500.0	-25.2	2,500.1	0.00	0.00	0.00
12,500.0	90.00	359.68	9,900.0	2,600.0	-25.8	2,600.1	0.00	0.00	0.00
12,600.0	90.00	359.68	9,900.0	2,700.0	-26.4	2,700.1	0.00	0.00	0.00
12,700.0	90.00	359.68	9,900.0	2,800.0	-26.9	2,800.1	0.00	0.00	0.00
12,800.0	90.00	359.68	9,900.0	2,900.0	-27.5	2,900.1	0.00	0.00	0.00
12,900.0	90.00	359.68	9,900.0	3,000.0	-28.0	3,000.1	0.00	0.00	0.00
13,000.0	90.00	359.68	9,900.0	3,100.0	-28.6	3,100.1	0.00	0.00	0.00
13,100.0	90.00	359.68	9,900.0	3,200.0	-29.2	3,200.1	0.00	0.00	0.00
13,200.0	90.00	359.68	9,900.0	3,300.0	-29.7	3,300.1	0.00	0.00	0.00
13,300.0	90.00	359.68	9,900.0	3,400.0	-30.3	3,400.1	0.00	0.00	0.00
13,400.0	90.00	359.68	9,900.0	3,500.0	-30.9	3,500.1	0.00	0.00	0.00
13,500.0	90.00	359.68	9,900.0	3,600.0	-31.4	3,600.1	0.00	0.00	0.00
13,600.0	90.00	359.68	9,900.0	3,700.0	-32.0	3,700.1	0.00	0.00	0.00
13,700.0	90.00	359.68	9,900.0	3,800.0	-32.6	3,800.1	0.00	0.00	0.00
13,800.0	90.00	359.68	9,900.0	3,900.0	-33.1	3,900.1	0.00	0.00	0.00



Planning Report

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Company:	Advance Energy Partners	TVD Reference:	WELL @ 3703.5usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3703.5usft (Original Well Elev)
Site:	Anderson Fed Com - Pad C	North Reference:	Grid
Well:	Anderson Fed Com 506H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 506H		
Design:	Anderson Fed Com 506H - Prelim 2		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
13,900.0	90.00	359.68	9,900.0	4,000.0	-33.7	4,000.1	0.00	0.00	0.00	
14,000.0	90.00	359.68	9,900.0	4,100.0	-34.2	4,100.1	0.00	0.00	0.00	
14,100.0	90.00	359.68	9,900.0	4,200.0	-34.8	4,200.1	0.00	0.00	0.00	
14,200.0	90.00	359.68	9,900.0	4,300.0	-35.4	4,300.1	0.00	0.00	0.00	
14,300.0	90.00	359.68	9,900.0	4,400.0	-35.9	4,400.1	0.00	0.00	0.00	
14,400.0	90.00	359.68	9,900.0	4,500.0	-36.5	4,500.1	0.00	0.00	0.00	
14,500.0	90.00	359.68	9,900.0	4,600.0	-37.1	4,600.1	0.00	0.00	0.00	
14,600.0	90.00	359.68	9,900.0	4,700.0	-37.6	4,700.1	0.00	0.00	0.00	
14,700.0	90.00	359.68	9,900.0	4,800.0	-38.2	4,800.1	0.00	0.00	0.00	
14,800.0	90.00	359.68	9,900.0	4,900.0	-38.8	4,900.1	0.00	0.00	0.00	
14,900.0	90.00	359.68	9,900.0	5,000.0	-39.3	5,000.1	0.00	0.00	0.00	
15,000.0	90.00	359.68	9,900.0	5,100.0	-39.9	5,100.1	0.00	0.00	0.00	
15,100.0	90.00	359.68	9,900.0	5,200.0	-40.4	5,200.1	0.00	0.00	0.00	
15,200.0	90.00	359.68	9,900.0	5,300.0	-41.0	5,300.1	0.00	0.00	0.00	
15,300.0	90.00	359.68	9,900.0	5,400.0	-41.6	5,400.1	0.00	0.00	0.00	
15,400.0	90.00	359.68	9,900.0	5,500.0	-42.1	5,500.1	0.00	0.00	0.00	
15,500.0	90.00	359.68	9,900.0	5,600.0	-42.7	5,600.1	0.00	0.00	0.00	
15,600.0	90.00	359.68	9,900.0	5,700.0	-43.3	5,700.1	0.00	0.00	0.00	
15,700.0	90.00	359.68	9,900.0	5,800.0	-43.8	5,800.1	0.00	0.00	0.00	
15,800.0	90.00	359.68	9,900.0	5,900.0	-44.4	5,900.1	0.00	0.00	0.00	
15,900.0	90.00	359.68	9,900.0	6,000.0	-45.0	6,000.1	0.00	0.00	0.00	
16,000.0	90.00	359.68	9,900.0	6,100.0	-45.5	6,100.1	0.00	0.00	0.00	
16,100.0	90.00	359.68	9,900.0	6,200.0	-46.1	6,200.1	0.00	0.00	0.00	
16,200.0	90.00	359.68	9,900.0	6,300.0	-46.7	6,300.1	0.00	0.00	0.00	
16,300.0	90.00	359.68	9,900.0	6,400.0	-47.2	6,400.1	0.00	0.00	0.00	
16,400.0	90.00	359.68	9,900.0	6,499.9	-47.8	6,500.1	0.00	0.00	0.00	
16,500.0	90.00	359.68	9,900.0	6,599.9	-48.3	6,600.1	0.00	0.00	0.00	
16,583.8	90.00	359.68	9,900.0	6,683.8	-48.8	6,684.0	0.00	0.00	0.00	
TD at 16583.8 - Anderson Fed Com 506H 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 506H	0.00	0.00	9,900.0	6,683.8	-48.8	526,636.57	753,094.78	32° 26' 45.305 N	103° 38' 48.779 W	
- plan hits target center										
- Point										

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
10,177.4	9,900.0	LP	5-1/2	5-1/2	



Planning Report

Database: EDM 5000.16 Single User Db
Company: Advance Energy Partners
Project: Hat Mesa
Site: Anderson Fed Com - Pad C
Well: Anderson Fed Com 506H
Wellbore: Anderson Fed Com 506H
Design: Anderson Fed Com 506H - Prelim 2

Local Co-ordinate Reference: Well Anderson Fed Com 506H
TVD Reference: WELL @ 3703.5usft (Original Well Elev)
MD Reference: WELL @ 3703.5usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,207.0	1,207.0	Rustler		0.00	
4,784.0	4,784.0	Base of Limestone		0.00	
8,435.0	8,431.0	Lower Brushy		0.00	
8,955.7	8,951.0	Avalon		0.00	
9,893.4	9,818.0	1st BS Sand		0.00	

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
5,000.0	5,000.0	0.0	0.0	KOP - Start Build 1.00
5,285.6	5,285.5	-7.1	-0.4	Start 3733.7 hold at 5285.6 MD
9,019.3	9,014.5	-192.9	-9.6	Start Drop -1.00
9,304.9	9,300.0	-200.0	-10.0	Start 122.5 hold at 9304.9 MD
9,427.4	9,422.5	-200.0	-10.0	KOP #2 - Start Build 12.00
10,177.4	9,900.0	277.5	-12.7	LP - Start 6406.4 hold at 10177.4 MD
16,583.8	9,900.0	6,683.8	-48.8	TD at 16583.8



Advance Energy Partners

Hat Mesa

Anderson Fed Com - Pad C

Anderson Fed Com 506H

Anderson Fed Com 506H

Anderson Fed Com 506H - Prelim 2

Anticollision Report

28 July, 2021



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 506H
Project:	Hat Mesa	TVD Reference:	WELL @ 3703.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3703.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 506H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 506H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 506H - Prelim 2	Offset TVD Reference:	Offset Datum

Reference	Anderson Fed Com 506H - Prelim 2		
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 7/28/2021				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	16,583.8	Anderson Fed Com 506H - Prelim 2 (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 C						
Anderson Fed Com 502H - Anderson Fed Com 502H - A	5,000.0	5,001.0	33.0	6.9	1.264	Level 3, CC
Anderson Fed Com 502H - Anderson Fed Com 502H - A	9,450.0	9,451.0	38.7	3.6	1.102	Level 3, ES, SF
Anderson Fed Com 553H - Anderson Fed Com 553H - A	4,916.3	4,917.3	66.1	40.3	2.557	CC
Anderson Fed Com 553H - Anderson Fed Com 553H - A	5,000.0	5,001.0	66.1	40.0	2.531	ES, SF
Anderson Fed Com 554H - Anderson Fed Com 554H - A	5,000.0	5,000.0	65.4	39.3	2.504	CC
Anderson Fed Com 554H - Anderson Fed Com 554H - A	5,100.0	5,100.0	65.5	39.1	2.484	ES
Anderson Fed Com 554H - Anderson Fed Com 554H - A	9,525.0	9,523.9	77.6	41.8	2.168	SF
Anderson Fed Com 602H - Anderson Fed Com 602H - A	5,000.0	5,001.0	99.0	72.9	3.791	CC
Anderson Fed Com 602H - Anderson Fed Com 602H - A	5,100.0	5,101.0	99.1	72.7	3.759	ES
Anderson Fed Com 602H - Anderson Fed Com 602H - A	9,575.0	9,572.8	113.4	78.6	3.257	SF
Anderson Fed Com 702H - Anderson Fed Com 702H - A	5,146.0	5,142.0	33.0	6.5	1.246	Level 3, CC
Anderson Fed Com 702H - Anderson Fed Com 702H - A	5,200.0	5,196.0	33.0	6.4	1.242	Level 3, ES, SF

Offset Design:	Anderson Fed Com - Pad C - Anderson Fed Com 502H - Anderson Fed Com 502H - Anderson Fed Com 502H - Prelim 2												Offset Site Error:	0.0 usft
Survey Program:	0-MWD+HRGM												Offset Well Error:	0.0 usft
Reference	Vertical	Offset	Vertical	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Rule Assigned:	Minimum	Separation	Warning	
Measured Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
0.0	0.0	1.0	1.0	0.0	0.0	0.0	89.00	0.6	33.0	33.0				
100.0	100.0	101.0	101.0	0.5	0.5	0.5	89.00	0.6	33.0	33.0	31.9	1.07	30.796	
200.0	200.0	201.0	201.0	1.7	1.7	1.7	89.00	0.6	33.0	33.0	29.6	3.43	9.625	
300.0	300.0	301.0	301.0	2.4	2.4	2.4	89.00	0.6	33.0	33.0	28.2	4.83	6.838	
400.0	400.0	401.0	401.0	3.0	3.0	3.0	89.00	0.6	33.0	33.0	27.1	5.91	5.584	
500.0	500.0	501.0	501.0	3.4	3.4	3.4	89.00	0.6	33.0	33.0	26.2	6.83	4.831	
600.0	600.0	601.0	601.0	3.8	3.8	3.8	89.00	0.6	33.0	33.0	25.4	7.65	4.315	
700.0	700.0	701.0	701.0	4.2	4.2	4.2	89.00	0.6	33.0	33.0	24.6	8.40	3.932	
800.0	800.0	801.0	801.0	4.5	4.5	4.5	89.00	0.6	33.0	33.0	23.9	9.09	3.633	
900.0	900.0	901.0	901.0	4.9	4.9	4.9	89.00	0.6	33.0	33.0	23.3	9.73	3.392	
1,000.0	1,000.0	1,001.0	1,001.0	5.2	5.2	5.2	89.00	0.6	33.0	33.0	22.7	10.34	3.192	
1,100.0	1,100.0	1,101.0	1,101.0	5.5	5.5	5.5	89.00	0.6	33.0	33.0	22.1	10.93	3.022	
1,200.0	1,200.0	1,201.0	1,201.0	5.7	5.7	5.7	89.00	0.6	33.0	33.0	21.5	11.48	2.875	
1,300.0	1,300.0	1,301.0	1,301.0	6.0	6.0	6.0	89.00	0.6	33.0	33.0	21.0	12.02	2.747	
1,400.0	1,400.0	1,401.0	1,401.0	6.3	6.3	6.3	89.00	0.6	33.0	33.0	20.5	12.53	2.634	
1,500.0	1,500.0	1,501.0	1,501.0	6.5	6.5	6.5	89.00	0.6	33.0	33.0	20.0	13.03	2.533	

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 506H
Project:	Hat Mesa	TVD Reference:	WELL @ 3703.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3703.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 506H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 506H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 506H - Prelim 2	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad C - Anderson Fed Com 502H - Anderson Fed Com 502H - Anderson Fed Com 502H - Prelim 2													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 (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)			
1,600.0	1,600.0	1,601.0	1,601.0	6.8	6.8	89.00	0.6	33.0	33.0	19.5	13.52	2.442	
1,700.0	1,700.0	1,701.0	1,701.0	7.0	7.0	89.00	0.6	33.0	33.0	19.0	13.99	2.360	
1,800.0	1,800.0	1,801.0	1,801.0	7.2	7.2	89.00	0.6	33.0	33.0	18.6	14.45	2.285	
1,900.0	1,900.0	1,901.0	1,901.0	7.4	7.5	89.00	0.6	33.0	33.0	18.1	14.90	2.216	
2,000.0	2,000.0	2,001.0	2,001.0	7.7	7.7	89.00	0.6	33.0	33.0	17.7	15.34	2.152	
2,100.0	2,100.0	2,101.0	2,101.0	7.9	7.9	89.00	0.6	33.0	33.0	17.2	15.77	2.093	
2,200.0	2,200.0	2,201.0	2,201.0	8.1	8.1	89.00	0.6	33.0	33.0	16.8	16.19	2.039	
2,300.0	2,300.0	2,301.0	2,301.0	8.3	8.3	89.00	0.6	33.0	33.0	16.4	16.61	1.988	
2,400.0	2,400.0	2,401.0	2,401.0	8.5	8.5	89.00	0.6	33.0	33.0	16.0	17.02	1.940	
2,500.0	2,500.0	2,501.0	2,501.0	8.7	8.7	89.00	0.6	33.0	33.0	15.6	17.42	1.895	
2,600.0	2,600.0	2,601.0	2,601.0	8.9	8.9	89.00	0.6	33.0	33.0	15.2	17.81	1.853	
2,700.0	2,700.0	2,701.0	2,701.0	9.1	9.1	89.00	0.6	33.0	33.0	14.8	18.20	1.814	
2,800.0	2,800.0	2,801.0	2,801.0	9.3	9.3	89.00	0.6	33.0	33.0	14.4	18.59	1.776	
2,900.0	2,900.0	2,901.0	2,901.0	9.5	9.5	89.00	0.6	33.0	33.0	14.1	18.97	1.741	
3,000.0	3,000.0	3,001.0	3,001.0	9.7	9.7	89.00	0.6	33.0	33.0	13.7	19.34	1.707	
3,100.0	3,100.0	3,101.0	3,101.0	9.9	9.9	89.00	0.6	33.0	33.0	13.3	19.71	1.675	
3,200.0	3,200.0	3,201.0	3,201.0	10.0	10.0	89.00	0.6	33.0	33.0	12.9	20.08	1.645	
3,300.0	3,300.0	3,301.0	3,301.0	10.2	10.2	89.00	0.6	33.0	33.0	12.6	20.44	1.615	
3,400.0	3,400.0	3,401.0	3,401.0	10.4	10.4	89.00	0.6	33.0	33.0	12.2	20.80	1.588	
3,500.0	3,500.0	3,501.0	3,501.0	10.6	10.6	89.00	0.6	33.0	33.0	11.9	21.15	1.561	
3,600.0	3,600.0	3,601.0	3,601.0	10.7	10.8	89.00	0.6	33.0	33.0	11.5	21.50	1.536	
3,700.0	3,700.0	3,701.0	3,701.0	10.9	10.9	89.00	0.6	33.0	33.0	11.2	21.85	1.511	
3,800.0	3,800.0	3,801.0	3,801.0	11.1	11.1	89.00	0.6	33.0	33.0	10.8	22.19	1.488 Level 3	
3,900.0	3,900.0	3,901.0	3,901.0	11.3	11.3	89.00	0.6	33.0	33.0	10.5	22.53	1.465 Level 3	
4,000.0	4,000.0	4,001.0	4,001.0	11.4	11.4	89.00	0.6	33.0	33.0	10.1	22.87	1.444 Level 3	
4,100.0	4,100.0	4,101.0	4,101.0	11.6	11.6	89.00	0.6	33.0	33.0	9.8	23.21	1.423 Level 3	
4,200.0	4,200.0	4,201.0	4,201.0	11.8	11.8	89.00	0.6	33.0	33.0	9.5	23.54	1.403 Level 3	
4,300.0	4,300.0	4,301.0	4,301.0	11.9	11.9	89.00	0.6	33.0	33.0	9.1	23.87	1.383 Level 3	
4,400.0	4,400.0	4,401.0	4,401.0	12.1	12.1	89.00	0.6	33.0	33.0	8.8	24.20	1.364 Level 3	
4,500.0	4,500.0	4,501.0	4,501.0	12.3	12.3	89.00	0.6	33.0	33.0	8.5	24.53	1.346 Level 3	
4,600.0	4,600.0	4,601.0	4,601.0	12.4	12.4	89.00	0.6	33.0	33.0	8.2	24.85	1.329 Level 3	
4,700.0	4,700.0	4,701.0	4,701.0	12.6	12.6	89.00	0.6	33.0	33.0	7.8	25.17	1.312 Level 3	
4,800.0	4,800.0	4,801.0	4,801.0	12.7	12.7	89.00	0.6	33.0	33.0	7.5	25.49	1.295 Level 3	
4,900.0	4,900.0	4,901.0	4,901.0	12.9	12.9	89.00	0.6	33.0	33.0	7.2	25.81	1.279 Level 3	
5,000.0	5,000.0	5,001.0	5,001.0	13.1	13.1	89.00	0.6	33.0	33.0	6.9	26.13	1.264 Level 3, CC	
5,100.0	5,100.0	5,101.0	5,101.0	13.1	13.2	-95.37	0.6	33.0	33.1	6.7	26.36	1.255 Level 3	
5,200.0	5,200.0	5,201.0	5,201.0	13.2	13.4	-99.83	0.6	33.0	33.4	6.9	26.58	1.258 Level 3	
5,285.6	5,285.5	5,286.6	5,286.6	13.3	13.4	-104.76	-0.1	33.0	34.1	7.4	26.68	1.277 Level 3	
5,300.0	5,299.9	5,301.0	5,301.0	13.3	13.5	-105.54	-0.3	33.0	34.2	7.5	26.69	1.282 Level 3	
5,400.0	5,399.7	5,401.2	5,401.1	13.4	13.5	-109.23	-3.0	32.9	35.0	8.2	26.79	1.305 Level 3	
5,500.0	5,499.6	5,501.3	5,501.1	13.5	13.6	-110.29	-7.2	32.8	35.3	8.4	26.86	1.314 Level 3	
5,600.0	5,599.5	5,601.3	5,601.0	13.6	13.6	-110.80	-11.8	32.6	35.5	8.5	26.98	1.316 Level 3	
5,700.0	5,699.4	5,701.3	5,700.9	13.8	13.8	-111.31	-16.4	32.5	35.7	8.6	27.12	1.317 Level 3	
5,800.0	5,799.2	5,801.3	5,800.8	13.9	13.9	-111.81	-21.0	32.4	35.9	8.7	27.27	1.318 Level 3	
5,900.0	5,899.1	5,901.3	5,900.7	14.1	14.0	-112.31	-25.7	32.2	36.2	8.7	27.43	1.319 Level 3	
6,000.0	5,999.0	6,001.3	6,000.6	14.3	14.2	-112.79	-30.3	32.1	36.4	8.8	27.60	1.319 Level 3	
6,100.0	6,098.9	6,101.3	6,100.5	14.5	14.4	-113.28	-34.9	31.9	36.6	8.9	27.77	1.319 Level 3	
6,200.0	6,198.7	6,201.3	6,200.4	14.7	14.5	-113.75	-39.5	31.8	36.9	8.9	27.96	1.318 Level 3	
6,300.0	6,298.6	6,301.3	6,300.3	15.0	14.7	-114.22	-44.1	31.7	37.1	8.9	28.16	1.318 Level 3	
6,400.0	6,398.5	6,401.3	6,400.2	15.2	14.9	-114.69	-48.7	31.5	37.3	9.0	28.36	1.316 Level 3	
6,500.0	6,498.4	6,501.3	6,500.1	15.4	15.2	-115.15	-53.3	31.4	37.6	9.0	28.58	1.315 Level 3	
6,600.0	6,598.2	6,601.3	6,600.0	15.7	15.4	-115.60	-57.9	31.3	37.8	9.0	28.81	1.313 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 506H
Project:	Hat Mesa	TVD Reference:	WELL @ 3703.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3703.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 506H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 506H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 506H - Prelim 2	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad C - Anderson Fed Com 502H - Anderson Fed Com 502H - Anderson Fed Com 502H - Prelim 2													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)			
6,700.0	6,698.1	6,701.3	6,699.9	16.0	15.6	-116.05	-62.5	31.1	38.1	9.0	29.05	1.310	Level 3
6,800.0	6,798.0	6,801.3	6,799.8	16.3	15.9	-116.49	-67.1	31.0	38.3	9.0	29.30	1.308	Level 3
6,900.0	6,897.9	6,901.3	6,899.7	16.5	16.1	-116.92	-71.7	30.8	38.6	9.0	29.56	1.305	Level 3
7,000.0	6,997.8	7,001.3	6,999.5	16.8	16.4	-117.35	-76.3	30.7	38.8	9.0	29.84	1.301	Level 3
7,100.0	7,097.6	7,101.3	7,099.4	17.2	16.7	-117.78	-80.9	30.6	39.1	9.0	30.12	1.297	Level 3
7,200.0	7,197.5	7,201.3	7,199.3	17.5	17.0	-118.20	-85.6	30.4	39.3	8.9	30.42	1.293	Level 3
7,300.0	7,297.4	7,301.3	7,299.2	17.8	17.3	-118.61	-90.2	30.3	39.6	8.9	30.73	1.288	Level 3
7,400.0	7,397.3	7,401.3	7,399.1	18.1	17.6	-119.02	-94.8	30.2	39.9	8.8	31.05	1.283	Level 3
7,500.0	7,497.1	7,501.3	7,499.0	18.4	17.9	-119.42	-99.4	30.0	40.1	8.7	31.39	1.278	Level 3
7,600.0	7,597.0	7,601.3	7,598.9	18.8	18.2	-119.82	-104.0	29.9	40.4	8.6	31.73	1.272	Level 3
7,700.0	7,696.9	7,701.3	7,698.8	19.1	18.5	-120.21	-108.6	29.7	40.6	8.6	32.09	1.267	Level 3
7,800.0	7,796.8	7,801.3	7,798.7	19.5	18.8	-120.60	-113.2	29.6	40.9	8.5	32.46	1.260	Level 3
7,900.0	7,896.6	7,901.3	7,898.6	19.8	19.2	-120.98	-117.8	29.5	41.2	8.3	32.84	1.254	Level 3
8,000.0	7,996.5	8,001.3	7,998.5	20.2	19.5	-121.36	-122.4	29.3	41.5	8.2	33.23	1.247	Level 3
8,100.0	8,096.4	8,101.3	8,098.4	20.6	19.9	-121.73	-127.0	29.2	41.7	8.1	33.64	1.240	Level 3
8,200.0	8,196.3	8,201.3	8,198.3	20.9	20.2	-122.10	-131.6	29.0	42.0	7.9	34.06	1.233	Level 3
8,300.0	8,296.1	8,301.3	8,298.2	21.3	20.6	-122.46	-136.2	28.9	42.3	7.8	34.48	1.226	Level 3
8,400.0	8,396.0	8,401.3	8,398.0	21.7	20.9	-122.82	-140.8	28.8	42.6	7.6	34.92	1.219	Level 3
8,500.0	8,495.9	8,501.3	8,497.9	22.1	21.3	-123.17	-145.5	28.6	42.8	7.5	35.37	1.211	Level 3
8,600.0	8,595.8	8,601.3	8,597.8	22.5	21.6	-123.52	-150.1	28.5	43.1	7.3	35.84	1.203	Level 3
8,700.0	8,695.6	8,701.3	8,697.7	22.8	22.0	-123.86	-154.7	28.4	43.4	7.1	36.31	1.195	Level 3
8,800.0	8,795.5	8,801.3	8,797.6	23.2	22.4	-124.20	-159.3	28.2	43.7	6.9	36.79	1.188	Level 3
8,900.0	8,895.4	8,901.3	8,897.5	23.6	22.8	-124.54	-163.9	28.1	44.0	6.7	37.29	1.179	Level 3
9,000.0	8,995.3	9,001.3	8,997.4	24.0	23.1	-124.87	-168.5	27.9	44.3	6.5	37.79	1.171	Level 3
9,019.3	9,014.5	9,020.6	9,016.7	24.1	23.2	-124.93	-169.4	27.9	44.3	6.4	37.88	1.170	Level 3
9,100.0	9,095.2	9,101.3	9,097.3	24.4	23.5	-124.59	-173.1	27.8	44.2	6.1	38.11	1.161	Level 3
9,200.0	9,195.1	9,201.2	9,197.2	24.7	23.9	-122.43	-177.7	27.7	43.3	5.3	37.93	1.140	Level 3
9,304.9	9,300.0	9,306.0	9,301.9	24.9	24.3	65.05	-182.5	27.5	41.4	4.4	37.03	1.118	Level 3
9,400.0	9,395.1	9,401.1	9,396.8	25.0	24.7	70.72	-186.9	27.4	39.6	3.7	35.88	1.104	Level 3
9,427.4	9,422.5	9,428.4	9,424.1	25.0	24.8	72.44	-188.2	27.3	39.2	3.6	35.54	1.102	Level 3
9,450.0	9,445.1	9,451.0	9,446.6	25.0	24.9	75.02	-189.2	27.3	38.7	3.6	35.12	1.102	Level 3, ES, SF
9,475.0	9,470.0	9,475.8	9,471.4	24.9	25.0	79.41	-190.4	27.3	38.0	3.6	34.37	1.106	Level 3
9,500.0	9,494.8	9,500.4	9,496.0	24.8	25.1	85.82	-191.5	27.3	37.4	3.8	33.60	1.113	Level 3
9,514.4	9,509.1	9,514.5	9,510.1	24.8	25.1	90.41	-192.1	27.2	37.3	3.9	33.34	1.118	Level 3
9,525.0	9,519.4	9,524.8	9,520.4	24.7	25.2	94.14	-192.6	27.2	37.4	4.0	33.32	1.121	Level 3
9,550.0	9,543.8	9,548.9	9,544.4	24.7	25.3	103.85	-193.7	27.2	38.4	4.3	34.17	1.125	Level 3
9,575.0	9,567.8	9,572.6	9,568.1	24.6	25.3	113.98	-194.7	27.2	41.1	4.9	36.27	1.134	Level 3
9,600.0	9,591.4	9,595.9	9,591.5	24.5	25.4	123.56	-195.6	27.1	45.8	6.7	39.01	1.173	Level 3
9,625.0	9,614.5	9,618.9	9,614.4	24.4	25.5	131.94	-196.4	27.1	52.4	10.7	41.65	1.258	Level 3
9,650.0	9,637.2	9,641.3	9,636.8	24.3	25.6	138.89	-197.1	27.1	60.9	17.1	43.77	1.391	Level 3
9,675.0	9,659.2	9,663.2	9,658.7	24.2	25.7	144.49	-197.7	27.1	71.1	25.8	45.34	1.568	
9,700.0	9,680.6	9,684.5	9,680.0	24.1	25.7	148.94	-198.2	27.1	82.9	36.4	46.46	1.784	
9,725.0	9,701.2	9,705.2	9,700.7	24.0	25.8	152.45	-198.6	27.0	96.0	48.8	47.23	2.032	
9,750.0	9,721.1	9,725.2	9,720.7	23.9	25.8	155.23	-198.9	27.0	110.4	62.6	47.76	2.311	
9,775.0	9,740.2	9,744.5	9,740.0	23.8	25.9	157.41	-199.1	27.0	125.9	77.8	48.12	2.617	
9,800.0	9,758.4	9,763.0	9,758.5	23.7	25.9	159.13	-199.3	27.0	142.5	94.2	48.37	2.946	
9,825.0	9,775.7	9,780.6	9,776.1	23.7	25.9	160.47	-199.4	27.0	160.1	111.6	48.55	3.298	
9,850.0	9,792.1	9,797.4	9,792.9	23.6	26.0	161.48	-199.4	27.0	178.6	130.0	48.67	3.670	
9,875.0	9,807.4	9,812.9	9,808.4	23.5	26.0	162.18	-199.4	27.0	198.0	149.2	48.75	4.061	
9,900.0	9,821.7	9,827.2	9,822.7	23.4	26.0	162.59	-199.4	27.0	218.2	169.4	48.80	4.472	
9,925.0	9,834.8	9,840.3	9,835.8	23.4	26.0	162.75	-199.4	27.0	239.2	190.3	48.83	4.898	
9,950.0	9,846.9	9,852.4	9,847.9	23.3	26.0	162.64	-199.4	27.0	260.8	212.0	48.84	5.340	

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 506H
Project:	Hat Mesa	TVD Reference:	WELL @ 3703.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3703.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 506H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 506H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 506H - Prelim 2	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad C - Anderson Fed Com 502H - Anderson Fed Com 502H - Anderson Fed Com 502H - Prelim 2													Offset Site Error:	0.0 usft	
Survey Program:		0-MWD+HRGM		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
9,975.0	9,857.7	9,863.3	9,858.7	23.3	26.0	162.22	-199.4	27.0	283.1	234.3	48.85	5.796			
10,000.0	9,867.4	9,872.9	9,868.4	23.2	26.0	161.45	-199.4	27.0	306.0	257.1	48.86	6.263			
10,025.0	9,875.9	9,881.4	9,876.9	23.2	26.0	160.18	-199.4	27.0	329.4	280.5	48.86	6.741			
10,050.0	9,883.1	9,888.6	9,884.1	23.1	26.0	158.21	-199.4	27.0	353.1	304.3	48.86	7.228			
10,075.0	9,889.1	9,894.6	9,890.1	23.1	26.0	155.15	-199.4	27.0	377.3	328.4	48.86	7.722			
10,100.0	9,893.7	9,899.3	9,894.7	23.1	26.0	150.18	-199.4	27.0	401.7	352.9	48.86	8.222			
10,125.0	9,897.1	9,902.6	9,898.1	23.1	26.0	141.50	-199.4	27.0	426.4	377.5	48.87	8.725			
10,150.0	9,899.2	9,904.7	9,900.2	23.1	26.0	124.88	-199.4	27.0	451.2	402.3	48.88	9.231			
10,177.4	9,900.0	9,905.5	9,901.0	23.1	26.0	90.00	-199.4	27.0	478.5	429.6	48.90	9.787			
10,200.0	9,900.0	9,905.5	9,901.0	23.1	26.0	90.00	-199.4	27.0	501.1	452.1	48.91	10.245			
10,300.0	9,900.0	10,875.5	10,475.0	23.1	24.2	-179.92	400.0	-14.2	574.0	517.3	56.71	10.122			
10,400.0	9,900.0	10,975.5	10,475.0	23.1	24.2	-179.83	500.0	-15.7	574.0	516.7	57.29	10.019			
10,500.0	9,900.0	11,075.5	10,475.0	23.2	24.3	-179.83	600.0	-16.2	574.0	516.0	57.96	9.903			
10,600.0	9,900.0	11,175.5	10,475.0	23.4	24.5	-179.83	700.0	-16.8	574.0	515.3	58.71	9.777			
10,700.0	9,900.0	11,275.5	10,475.0	24.3	25.1	-179.84	800.0	-17.3	574.0	514.5	59.53	9.643			
10,800.0	9,900.0	11,375.5	10,475.0	25.8	26.4	-179.84	900.0	-17.8	574.0	513.6	60.41	9.501			
10,900.0	9,900.0	11,475.5	10,475.0	27.3	27.9	-179.84	1,000.0	-18.4	574.0	512.6	61.37	9.354			
11,000.0	9,900.0	11,575.5	10,475.0	29.0	29.5	-179.84	1,100.0	-18.9	574.0	511.6	62.38	9.202			
11,100.0	9,900.0	11,675.5	10,475.0	30.7	31.1	-179.85	1,200.0	-19.4	574.0	510.5	63.45	9.046			
11,200.0	9,900.0	11,775.5	10,475.0	32.4	32.8	-179.85	1,300.0	-20.0	574.0	509.4	64.58	8.888			
11,300.0	9,900.0	11,875.5	10,475.0	34.1	34.6	-179.85	1,400.0	-20.5	574.0	508.2	65.77	8.728			
11,400.0	9,900.0	11,975.5	10,475.0	35.9	36.3	-179.85	1,500.0	-21.0	574.0	507.0	67.00	8.567			
11,500.0	9,900.0	12,075.5	10,475.0	37.7	38.1	-179.86	1,600.0	-21.6	574.0	505.7	68.28	8.406			
11,600.0	9,900.0	12,175.5	10,475.0	39.5	39.9	-179.86	1,700.0	-22.1	574.0	504.4	69.61	8.246			
11,700.0	9,900.0	12,275.5	10,475.0	41.4	41.8	-179.86	1,800.0	-22.6	574.0	503.0	70.98	8.087			
11,800.0	9,900.0	12,375.5	10,475.0	43.2	43.6	-179.87	1,900.0	-23.2	574.0	501.6	72.39	7.929			
11,900.0	9,900.0	12,475.5	10,475.0	45.1	45.5	-179.87	2,000.0	-23.7	574.0	500.2	73.84	7.773			
12,000.0	9,900.0	12,575.5	10,475.0	47.0	47.3	-179.87	2,100.0	-24.3	574.0	498.7	75.33	7.620			
12,100.0	9,900.0	12,675.5	10,475.0	48.9	49.2	-179.87	2,200.0	-24.8	574.0	497.2	76.84	7.470			
12,200.0	9,900.0	12,775.5	10,475.0	50.8	51.1	-179.88	2,300.0	-25.3	574.0	495.6	78.39	7.322			
12,300.0	9,900.0	12,875.5	10,475.0	52.7	53.0	-179.88	2,400.0	-25.9	574.0	494.0	79.97	7.177			
12,400.0	9,900.0	12,975.5	10,475.0	54.6	54.9	-179.88	2,500.0	-26.4	574.0	492.4	81.58	7.036			
12,500.0	9,900.0	13,075.5	10,475.0	56.5	56.8	-179.89	2,600.0	-26.9	574.0	490.8	83.22	6.898			
12,600.0	9,900.0	13,175.5	10,475.0	58.5	58.8	-179.89	2,700.0	-27.5	574.0	489.1	84.87	6.763			
12,700.0	9,900.0	13,275.5	10,475.0	60.4	60.7	-179.89	2,800.0	-28.0	574.0	487.4	86.56	6.631			
12,800.0	9,900.0	13,375.5	10,475.0	62.3	62.6	-179.89	2,900.0	-28.5	574.0	485.7	88.26	6.503			
12,900.0	9,900.0	13,475.5	10,475.0	64.3	64.6	-179.90	3,000.0	-29.1	574.0	484.0	89.99	6.379			
13,000.0	9,900.0	13,575.5	10,475.0	66.2	66.5	-179.90	3,100.0	-29.6	574.0	482.3	91.73	6.257			
13,100.0	9,900.0	13,675.5	10,475.0	68.2	68.5	-179.90	3,200.0	-30.1	574.0	480.5	93.50	6.139			
13,200.0	9,900.0	13,775.5	10,475.0	70.2	70.4	-179.91	3,300.0	-30.7	574.0	478.7	95.28	6.024			
13,300.0	9,900.0	13,875.5	10,475.0	72.1	72.4	-179.91	3,400.0	-31.2	574.0	476.9	97.08	5.913			
13,400.0	9,900.0	13,975.5	10,475.0	74.1	74.3	-179.91	3,500.0	-31.8	574.0	475.1	98.89	5.804			
13,500.0	9,900.0	14,075.5	10,475.0	76.0	76.3	-179.91	3,600.0	-32.3	574.0	473.3	100.72	5.699			
13,600.0	9,900.0	14,175.5	10,475.0	78.0	78.3	-179.92	3,700.0	-32.8	574.0	471.4	102.57	5.596			
13,700.0	9,900.0	14,275.5	10,475.0	80.0	80.2	-179.92	3,800.0	-33.4	574.0	469.6	104.42	5.497			
13,800.0	9,900.0	14,375.5	10,475.0	82.0	82.2	-179.92	3,900.0	-33.9	574.0	467.7	106.29	5.400			
13,900.0	9,900.0	14,475.5	10,475.0	83.9	84.2	-179.92	4,000.0	-34.4	574.0	465.8	108.17	5.306			
14,000.0	9,900.0	14,575.5	10,475.0	85.9	86.1	-179.93	4,100.0	-35.0	574.0	463.9	110.07	5.215			
14,100.0	9,900.0	14,675.5	10,475.0	87.9	88.1	-179.93	4,200.0	-35.5	574.0	462.0	111.97	5.126			
14,200.0	9,900.0	14,775.5	10,475.0	89.9	90.1	-179.93	4,300.0	-36.0	574.0	460.1	113.89	5.040			
14,300.0	9,900.0	14,875.5	10,475.0	91.9	92.1	-179.94	4,400.0	-36.6	574.0	458.2	115.81	4.956			
14,400.0	9,900.0	14,975.5	10,475.0	93.8	94.1	-179.94	4,500.0	-37.1	574.0	456.3	117.74	4.875			

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 506H
Project:	Hat Mesa	TVD Reference:	WELL @ 3703.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3703.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 506H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 506H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 506H - Prelim 2	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad C - Anderson Fed Com 502H - Anderson Fed Com 502H - Anderson Fed Com 502H - Prelim 2													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		
14,500.0	9,900.0	15,075.5	10,475.0	95.8	96.0	-179.94	4,600.0	-37.7	574.0	454.3	119.68	4.796		
14,600.0	9,900.0	15,175.5	10,475.0	97.8	98.0	-179.94	4,700.0	-38.2	574.0	452.4	121.63	4.719		
14,700.0	9,900.0	15,275.5	10,475.0	99.8	100.0	-179.95	4,800.0	-38.7	574.0	450.4	123.59	4.644		
14,800.0	9,900.0	15,375.5	10,475.0	101.8	102.0	-179.95	4,900.0	-39.3	574.0	448.4	125.56	4.572		
14,900.0	9,900.0	15,475.5	10,475.0	103.8	104.0	-179.95	5,000.0	-39.8	574.0	446.5	127.53	4.501		
15,000.0	9,900.0	15,575.5	10,475.0	105.8	106.0	-179.96	5,100.0	-40.3	574.0	444.5	129.51	4.432		
15,100.0	9,900.0	15,675.5	10,475.0	107.8	108.0	-179.96	5,200.0	-40.9	574.0	442.5	131.50	4.365		
15,200.0	9,900.0	15,775.5	10,475.0	109.8	110.0	-179.96	5,300.0	-41.4	574.0	440.5	133.49	4.300		
15,300.0	9,900.0	15,875.5	10,475.0	111.7	111.9	-179.96	5,400.0	-41.9	574.0	438.5	135.49	4.236		
15,400.0	9,900.0	15,975.5	10,475.0	113.7	113.9	-179.97	5,500.0	-42.5	574.0	436.5	137.50	4.175		
15,500.0	9,900.0	16,075.5	10,475.0	115.7	115.9	-179.97	5,600.0	-43.0	574.0	434.5	139.51	4.115		
15,600.0	9,900.0	16,175.5	10,475.0	117.7	117.9	-179.97	5,700.0	-43.5	574.0	432.5	141.52	4.056		
15,700.0	9,900.0	16,275.5	10,475.0	119.7	119.9	-179.98	5,800.0	-44.1	574.0	430.5	143.54	3.999		
15,800.0	9,900.0	16,375.5	10,475.0	121.7	121.9	-179.98	5,900.0	-44.6	574.0	428.4	145.57	3.943		
15,900.0	9,900.0	16,475.5	10,475.0	123.7	123.9	-179.98	6,000.0	-45.2	574.0	426.4	147.60	3.889		
16,000.0	9,900.0	16,575.5	10,475.0	125.7	125.9	-179.98	6,100.0	-45.7	574.0	424.4	149.63	3.836		
16,100.0	9,900.0	16,675.5	10,475.0	127.7	127.9	-179.99	6,200.0	-46.2	574.0	422.3	151.67	3.784		
16,200.0	9,900.0	16,775.5	10,475.0	129.7	129.9	-179.99	6,300.0	-46.8	574.0	420.3	153.72	3.734		
16,300.0	9,900.0	16,875.5	10,475.0	131.7	131.9	-179.99	6,400.0	-47.3	574.0	418.2	155.76	3.685		
16,400.0	9,900.0	16,975.5	10,475.0	133.7	133.9	-179.99	6,499.9	-47.8	574.0	416.2	157.82	3.637		
16,500.0	9,900.0	17,075.5	10,475.0	135.7	135.9	-180.00	6,599.9	-48.4	574.0	414.1	159.87	3.590		
16,583.8	9,900.0	17,159.3	10,475.0	137.4	137.6	180.00	6,683.8	-48.8	574.0	412.4	161.59	3.552		
16,584.7	9,900.0	17,159.3	10,475.0	137.4	137.6	180.00	6,683.8	-48.8	574.0	412.5	161.54	3.553		



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 506H
Project:	Hat Mesa	TVD Reference:	WELL @ 3703.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3703.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 506H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 506H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 506H - Prelim 2	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad C - Anderson Fed Com 553H - Anderson Fed Com 553H - Anderson Fed Com 553H - Prelim 2													Offset Site Error: 0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	1.0	1.0	0.0	0.0	-90.25	-0.3	-66.1	66.1				
100.0	100.0	101.0	101.0	0.5	0.5	-90.25	-0.3	-66.1	66.1	65.0	1.07	61.670	
200.0	200.0	201.0	201.0	1.7	1.7	-90.25	-0.3	-66.1	66.1	62.7	3.43	19.273	
300.0	300.0	301.0	301.0	2.4	2.4	-90.25	-0.3	-66.1	66.1	61.3	4.83	13.694	
400.0	400.0	401.0	401.0	3.0	3.0	-90.25	-0.3	-66.1	66.1	60.2	5.91	11.182	
500.0	500.0	501.0	501.0	3.4	3.4	-90.25	-0.3	-66.1	66.1	59.3	6.83	9.674	
600.0	600.0	601.0	601.0	3.8	3.8	-90.25	-0.3	-66.1	66.1	58.5	7.65	8.640	
700.0	700.0	701.0	701.0	4.2	4.2	-90.25	-0.3	-66.1	66.1	57.7	8.40	7.874	
800.0	800.0	801.0	801.0	4.5	4.5	-90.25	-0.3	-66.1	66.1	57.0	9.09	7.276	
900.0	900.0	901.0	901.0	4.9	4.9	-90.25	-0.3	-66.1	66.1	56.4	9.73	6.793	
1,000.0	1,000.0	1,001.0	1,001.0	5.2	5.2	-90.25	-0.3	-66.1	66.1	55.8	10.34	6.392	
1,100.0	1,100.0	1,101.0	1,101.0	5.5	5.5	-90.25	-0.3	-66.1	66.1	55.2	10.93	6.052	
1,200.0	1,200.0	1,201.0	1,201.0	5.7	5.7	-90.25	-0.3	-66.1	66.1	54.6	11.48	5.758	
1,300.0	1,300.0	1,301.0	1,301.0	6.0	6.0	-90.25	-0.3	-66.1	66.1	54.1	12.02	5.502	
1,400.0	1,400.0	1,401.0	1,401.0	6.3	6.3	-90.25	-0.3	-66.1	66.1	53.6	12.53	5.275	
1,500.0	1,500.0	1,501.0	1,501.0	6.5	6.5	-90.25	-0.3	-66.1	66.1	53.1	13.03	5.073	
1,600.0	1,600.0	1,601.0	1,601.0	6.8	6.8	-90.25	-0.3	-66.1	66.1	52.6	13.52	4.891	
1,700.0	1,700.0	1,701.0	1,701.0	7.0	7.0	-90.25	-0.3	-66.1	66.1	52.1	13.99	4.726	
1,800.0	1,800.0	1,801.0	1,801.0	7.2	7.2	-90.25	-0.3	-66.1	66.1	51.7	14.45	4.575	
1,900.0	1,900.0	1,901.0	1,901.0	7.4	7.5	-90.25	-0.3	-66.1	66.1	51.2	14.90	4.437	
2,000.0	2,000.0	2,001.0	2,001.0	7.7	7.7	-90.25	-0.3	-66.1	66.1	50.8	15.34	4.310	
2,100.0	2,100.0	2,101.0	2,101.0	7.9	7.9	-90.25	-0.3	-66.1	66.1	50.3	15.77	4.192	
2,200.0	2,200.0	2,201.0	2,201.0	8.1	8.1	-90.25	-0.3	-66.1	66.1	49.9	16.19	4.083	
2,300.0	2,300.0	2,301.0	2,301.0	8.3	8.3	-90.25	-0.3	-66.1	66.1	49.5	16.61	3.981	
2,400.0	2,400.0	2,401.0	2,401.0	8.5	8.5	-90.25	-0.3	-66.1	66.1	49.1	17.02	3.885	
2,500.0	2,500.0	2,501.0	2,501.0	8.7	8.7	-90.25	-0.3	-66.1	66.1	48.7	17.42	3.796	
2,600.0	2,600.0	2,601.0	2,601.0	8.9	8.9	-90.25	-0.3	-66.1	66.1	48.3	17.81	3.712	
2,700.0	2,700.0	2,701.0	2,701.0	9.1	9.1	-90.25	-0.3	-66.1	66.1	47.9	18.20	3.632	
2,800.0	2,800.0	2,801.0	2,801.0	9.3	9.3	-90.25	-0.3	-66.1	66.1	47.5	18.59	3.557	
2,900.0	2,900.0	2,901.0	2,901.0	9.5	9.5	-90.25	-0.3	-66.1	66.1	47.2	18.97	3.486	
3,000.0	3,000.0	3,001.0	3,001.0	9.7	9.7	-90.25	-0.3	-66.1	66.1	46.8	19.34	3.419	
3,100.0	3,100.0	3,101.0	3,101.0	9.9	9.9	-90.25	-0.3	-66.1	66.1	46.4	19.71	3.354	
3,200.0	3,200.0	3,201.0	3,201.0	10.0	10.0	-90.25	-0.3	-66.1	66.1	46.0	20.08	3.293	
3,300.0	3,300.0	3,301.0	3,301.0	10.2	10.2	-90.25	-0.3	-66.1	66.1	45.7	20.44	3.235	
3,400.0	3,400.0	3,401.0	3,401.0	10.4	10.4	-90.25	-0.3	-66.1	66.1	45.3	20.80	3.179	
3,500.0	3,500.0	3,501.0	3,501.0	10.6	10.6	-90.25	-0.3	-66.1	66.1	45.0	21.15	3.126	
3,600.0	3,600.0	3,601.0	3,601.0	10.7	10.8	-90.25	-0.3	-66.1	66.1	44.6	21.50	3.075	
3,700.0	3,700.0	3,701.0	3,701.0	10.9	10.9	-90.25	-0.3	-66.1	66.1	44.3	21.85	3.026	
3,800.0	3,800.0	3,801.0	3,801.0	11.1	11.1	-90.25	-0.3	-66.1	66.1	43.9	22.19	2.979	
3,900.0	3,900.0	3,901.0	3,901.0	11.3	11.3	-90.25	-0.3	-66.1	66.1	43.6	22.53	2.934	
4,000.0	4,000.0	4,001.0	4,001.0	11.4	11.4	-90.25	-0.3	-66.1	66.1	43.2	22.87	2.891	
4,100.0	4,100.0	4,101.0	4,101.0	11.6	11.6	-90.25	-0.3	-66.1	66.1	42.9	23.21	2.849	
4,200.0	4,200.0	4,201.0	4,201.0	11.8	11.8	-90.25	-0.3	-66.1	66.1	42.6	23.54	2.809	
4,300.0	4,300.0	4,301.0	4,301.0	11.9	11.9	-90.25	-0.3	-66.1	66.1	42.2	23.87	2.770	
4,400.0	4,400.0	4,401.0	4,401.0	12.1	12.1	-90.25	-0.3	-66.1	66.1	41.9	24.20	2.732	
4,500.0	4,500.0	4,501.0	4,501.0	12.3	12.3	-90.25	-0.3	-66.1	66.1	41.6	24.53	2.696	
4,600.0	4,600.0	4,601.0	4,601.0	12.4	12.4	-90.25	-0.3	-66.1	66.1	41.3	24.85	2.661	
4,700.0	4,700.0	4,701.0	4,701.0	12.6	12.6	-90.25	-0.3	-66.1	66.1	40.9	25.17	2.627	
4,800.0	4,800.0	4,801.0	4,801.0	12.7	12.7	-90.25	-0.3	-66.1	66.1	40.6	25.49	2.594	
4,900.0	4,900.0	4,901.0	4,901.0	12.9	12.9	-90.25	-0.3	-66.1	66.1	40.3	25.81	2.562	
4,916.3	4,916.3	4,917.3	4,917.3	12.9	12.9	-90.25	-0.3	-66.1	66.1	40.3	25.86	2.557 CC	
5,000.0	5,000.0	5,001.0	5,001.0	13.1	13.1	-90.25	-0.3	-66.1	66.1	40.0	26.13	2.531 ES, SF	

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



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Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3703.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 506H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 506H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 506H - Prelim 2	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad C - Anderson Fed Com 553H - Anderson Fed Com 553H - Anderson Fed Com 553H - Prelim 2													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	
5,100.0	5,100.0	5,100.0	5,100.0	13.1	13.2	87.34	-0.6	-66.9	66.9	40.6	26.31	2.542	
5,200.0	5,200.0	5,198.8	5,198.8	13.2	13.3	88.65	-1.6	-69.3	69.2	42.7	26.46	2.615	
5,285.6	5,285.5	5,283.3	5,283.2	13.3	13.4	90.33	-2.9	-72.6	72.4	45.9	26.58	2.725	
5,300.0	5,299.9	5,297.6	5,297.4	13.3	13.4	90.65	-3.2	-73.3	73.1	46.5	26.59	2.749	
5,400.0	5,399.7	5,396.2	5,395.9	13.4	13.5	92.35	-5.4	-78.8	78.7	51.9	26.75	2.941	
5,500.0	5,499.6	5,494.7	5,494.1	13.5	13.7	93.29	-8.3	-85.9	85.8	58.9	26.94	3.185	
5,600.0	5,599.5	5,594.3	5,593.3	13.6	13.8	93.81	-11.5	-94.0	93.8	66.6	27.16	3.452	
5,700.0	5,699.4	5,694.0	5,692.6	13.8	14.0	94.24	-14.8	-102.0	101.7	74.3	27.40	3.714	
5,800.0	5,799.2	5,793.7	5,791.9	13.9	14.3	94.62	-18.0	-110.1	109.7	82.1	27.65	3.969	
5,900.0	5,899.1	5,893.4	5,891.2	14.1	14.5	94.94	-21.3	-118.1	117.7	89.8	27.92	4.217	
6,000.0	5,999.0	5,993.0	5,990.5	14.3	14.7	95.22	-24.6	-126.2	125.7	97.5	28.20	4.459	
6,100.0	6,098.9	6,092.7	6,089.8	14.5	15.0	95.47	-27.8	-134.2	133.7	105.2	28.49	4.693	
6,200.0	6,198.7	6,192.4	6,189.1	14.7	15.3	95.69	-31.1	-142.3	141.7	112.9	28.80	4.921	
6,300.0	6,298.6	6,292.1	6,288.4	15.0	15.5	95.88	-34.3	-150.3	149.7	120.6	29.12	5.141	
6,400.0	6,398.5	6,391.7	6,387.7	15.2	15.8	96.06	-37.6	-158.4	157.7	128.3	29.45	5.355	
6,500.0	6,498.4	6,491.4	6,487.0	15.4	16.2	96.22	-40.8	-166.4	165.7	135.9	29.79	5.562	
6,600.0	6,598.2	6,591.1	6,586.3	15.7	16.5	96.36	-44.1	-174.5	173.7	143.6	30.15	5.762	
6,700.0	6,698.1	6,690.8	6,685.6	16.0	16.8	96.50	-47.3	-182.6	181.7	151.2	30.51	5.956	
6,800.0	6,798.0	6,790.5	6,784.9	16.3	17.2	96.62	-50.6	-190.6	189.7	158.8	30.89	6.143	
6,900.0	6,897.9	6,890.1	6,884.2	16.5	17.5	96.73	-53.8	-198.7	197.7	166.5	31.27	6.323	
7,000.0	6,997.8	6,989.8	6,983.5	16.8	17.9	96.83	-57.1	-206.7	205.7	174.1	31.66	6.498	
7,100.0	7,097.6	7,089.5	7,082.8	17.2	18.3	96.93	-60.4	-214.8	213.7	181.7	32.06	6.666	
7,200.0	7,197.5	7,189.2	7,182.1	17.5	18.7	97.01	-63.6	-222.8	221.7	189.3	32.47	6.829	
7,300.0	7,297.4	7,288.9	7,281.4	17.8	19.0	97.10	-66.9	-230.9	229.8	196.9	32.89	6.985	
7,400.0	7,397.3	7,388.5	7,380.7	18.1	19.4	97.17	-70.1	-238.9	237.8	204.4	33.32	7.137	
7,500.0	7,497.1	7,488.2	7,480.0	18.4	19.8	97.24	-73.4	-247.0	245.8	212.0	33.75	7.282	
7,600.0	7,597.0	7,587.9	7,579.3	18.8	20.3	97.31	-76.6	-255.1	253.8	219.6	34.19	7.423	
7,700.0	7,696.9	7,687.6	7,678.6	19.1	20.7	97.37	-79.9	-263.1	261.8	227.2	34.63	7.559	
7,800.0	7,796.8	7,787.2	7,777.9	19.5	21.1	97.43	-83.1	-271.2	269.8	234.7	35.08	7.690	
7,900.0	7,896.6	7,886.9	7,877.2	19.8	21.5	97.49	-86.4	-279.2	277.8	242.3	35.54	7.816	
8,000.0	7,996.5	7,986.6	7,976.5	20.2	22.0	97.54	-89.6	-287.3	285.8	249.8	36.01	7.938	
8,100.0	8,096.4	8,086.3	8,075.8	20.6	22.4	97.59	-92.9	-295.3	293.8	257.4	36.47	8.056	
8,200.0	8,196.3	8,186.0	8,175.1	20.9	22.8	97.64	-96.1	-303.4	301.8	264.9	36.95	8.169	
8,300.0	8,296.1	8,285.6	8,274.4	21.3	23.3	97.68	-99.4	-311.4	309.9	272.4	37.43	8.279	
8,400.0	8,396.0	8,385.3	8,373.7	21.7	23.7	97.72	-102.7	-319.5	317.9	280.0	37.91	8.385	
8,500.0	8,495.9	8,485.0	8,473.0	22.1	24.2	97.76	-105.9	-327.5	325.9	287.5	38.40	8.487	
8,600.0	8,595.8	8,584.7	8,572.3	22.5	24.6	97.80	-109.2	-335.6	333.9	295.0	38.89	8.585	
8,700.0	8,695.6	8,684.4	8,671.6	22.8	25.1	97.84	-112.4	-343.7	341.9	302.5	39.39	8.680	
8,800.0	8,795.5	8,784.0	8,770.9	23.2	25.6	97.87	-115.7	-351.7	349.9	310.0	39.89	8.772	
8,900.0	8,895.4	8,883.7	8,870.2	23.6	26.0	97.91	-118.9	-359.8	357.9	317.5	40.39	8.861	
9,000.0	8,995.3	8,983.4	8,969.5	24.0	26.5	97.94	-122.2	-367.8	365.9	325.0	40.90	8.947	
9,019.3	9,014.5	9,002.6	8,988.7	24.1	26.6	97.94	-122.8	-369.4	367.5	326.5	40.99	8.966	
9,100.0	9,095.2	9,083.1	9,068.8	24.4	27.0	97.95	-125.4	-375.9	373.9	332.5	41.38	9.035	
9,200.0	9,195.1	9,182.7	9,168.1	24.7	27.4	97.91	-128.7	-383.9	381.6	339.7	41.91	9.105	
9,304.9	9,300.0	9,287.3	9,272.2	24.9	27.9	-79.93	-132.1	-392.4	389.4	347.0	42.46	9.171	
9,400.0	9,395.1	9,382.0	9,366.6	25.0	28.4	-80.57	-135.2	-400.0	396.5	353.5	43.00	9.221	
9,427.4	9,422.5	9,409.3	9,393.8	25.0	28.5	-80.75	-136.1	-402.2	398.5	355.4	43.14	9.239	
9,450.0	9,445.1	9,431.8	9,416.2	25.0	28.6	-80.45	-136.8	-404.1	400.1	356.9	43.25	9.251	
9,475.0	9,470.0	9,456.6	9,440.9	24.9	28.8	-80.68	-137.6	-406.1	401.7	358.3	43.40	9.256	
9,500.0	9,494.8	9,481.2	9,465.4	24.8	28.9	-81.11	-138.4	-408.0	403.1	359.5	43.56	9.254	
9,525.0	9,519.4	9,505.5	9,489.7	24.7	29.0	-81.71	-139.2	-410.0	404.4	360.6	43.73	9.246	
9,550.0	9,543.8	9,529.6	9,513.6	24.7	29.1	-82.49	-140.0	-412.0	405.5	361.6	43.93	9.231	

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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
9,575.0	9,567.8	9,553.3	9,537.2	24.6	29.2	-83.41	-140.8	-413.9	406.6	362.5	44.15	9.211	
9,600.0	9,591.4	9,576.5	9,560.4	24.5	29.3	-84.47	-141.6	-415.8	407.8	363.4	44.38	9.188	
9,625.0	9,614.5	9,599.3	9,583.1	24.4	29.5	-85.63	-142.3	-417.6	409.0	364.4	44.64	9.163	
9,650.0	9,637.2	9,621.5	9,605.2	24.3	29.6	-86.88	-143.0	-419.4	410.5	365.5	44.92	9.137	
9,675.0	9,659.2	9,643.0	9,626.6	24.2	29.7	-88.19	-143.7	-421.1	412.2	367.0	45.23	9.113	
9,700.0	9,680.6	9,663.9	9,647.4	24.1	29.8	-89.52	-144.4	-422.8	414.3	368.7	45.56	9.094	
9,725.0	9,701.2	9,684.1	9,667.5	24.0	29.9	-90.85	-145.1	-424.4	416.8	370.9	45.91	9.080	
9,750.0	9,721.1	9,703.4	9,686.8	23.9	30.0	-92.14	-145.7	-426.0	420.0	373.7	46.27	9.076	
9,775.0	9,740.2	9,721.9	9,705.2	23.8	30.1	-93.37	-146.3	-427.5	423.8	377.1	46.66	9.082	
9,800.0	9,758.4	9,739.5	9,722.7	23.7	30.1	-94.50	-146.9	-428.9	428.3	381.2	47.05	9.103	
9,825.0	9,775.7	9,756.2	9,739.3	23.7	30.2	-95.50	-147.4	-430.3	433.6	386.2	47.44	9.140	
9,850.0	9,792.1	9,771.8	9,754.9	23.6	30.3	-96.35	-147.9	-431.5	439.8	392.0	47.84	9.195	
9,875.0	9,807.4	9,786.4	9,769.5	23.5	30.4	-97.02	-148.4	-432.7	447.0	398.8	48.22	9.270	
9,900.0	9,821.7	9,800.0	9,783.0	23.4	30.4	-97.49	-148.8	-433.8	455.1	406.5	48.59	9.367	
9,925.0	9,834.8	9,812.4	9,795.4	23.4	30.5	-97.73	-149.3	-434.8	464.3	415.3	48.93	9.487	
9,950.0	9,846.9	9,823.7	9,806.6	23.3	30.6	-97.72	-149.6	-435.7	474.4	425.1	49.25	9.632	
9,975.0	9,857.7	9,833.8	9,816.7	23.3	30.6	-97.45	-149.9	-436.5	485.5	436.0	49.54	9.800	
10,000.0	9,867.4	9,842.7	9,825.6	23.2	30.6	-96.88	-150.2	-437.3	497.6	447.8	49.80	9.992	
10,025.0	9,875.9	9,850.4	9,833.2	23.2	30.7	-96.01	-150.5	-437.9	510.7	460.6	50.02	10.208	
10,050.0	9,883.1	9,856.8	9,839.6	23.1	30.7	-94.83	-150.7	-438.4	524.6	474.4	50.21	10.447	
10,075.0	9,889.1	9,862.0	9,844.7	23.1	30.7	-93.30	-150.9	-438.8	539.3	488.9	50.37	10.707	
10,100.0	9,893.7	9,865.8	9,848.6	23.1	30.8	-91.44	-151.0	-439.1	554.8	504.3	50.50	10.987	
10,125.0	9,897.1	9,868.4	9,851.2	23.1	30.8	-89.23	-151.1	-439.3	571.0	520.4	50.60	11.285	
10,150.0	9,899.2	9,869.7	9,852.4	23.1	30.8	-86.69	-151.1	-439.4	587.8	537.1	50.67	11.600	
10,177.4	9,900.0	9,869.6	9,852.3	23.1	30.8	-83.53	-151.1	-439.4	606.8	556.0	50.73	11.961	
10,200.0	9,900.0	9,868.9	9,851.6	23.1	30.8	-83.43	-151.1	-439.4	622.8	572.1	50.76	12.271	
10,300.0	9,900.0	9,865.7	9,848.4	23.1	30.8	-83.01	-151.0	-439.1	698.3	647.6	50.77	13.755	
10,400.0	9,900.0	9,862.4	9,845.2	23.1	30.7	-82.58	-150.9	-438.9	779.3	728.7	50.66	15.384	
10,500.0	9,900.0	9,859.2	9,842.0	23.2	30.7	-82.16	-150.8	-438.6	864.3	813.8	50.49	17.118	
10,600.0	9,900.0	9,856.0	9,838.8	23.4	30.7	-81.73	-150.7	-438.3	952.2	901.9	50.31	18.927	

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 506H
Project:	Hat Mesa	TVD Reference:	WELL @ 3703.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3703.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 506H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 506H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 506H - Prelim 2	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad C - Anderson Fed Com 554H - Anderson Fed Com 554H - Anderson Fed Com 554H - Prelim 2													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)				
0.0	0.0	0.0	0.0	0.0	0.0	89.31	0.8	65.4	65.4					
100.0	100.0	100.0	100.0	0.5	0.5	89.31	0.8	65.4	65.4	64.4	1.06	61.694		
200.0	200.0	200.0	200.0	1.7	1.7	89.31	0.8	65.4	65.4	62.0	3.42	19.107		
300.0	300.0	300.0	300.0	2.4	2.4	89.31	0.8	65.4	65.4	60.6	4.82	13.563		
400.0	400.0	400.0	400.0	3.0	3.0	89.31	0.8	65.4	65.4	59.5	5.91	11.072		
500.0	500.0	500.0	500.0	3.4	3.4	89.31	0.8	65.4	65.4	58.6	6.83	9.577		
600.0	600.0	600.0	600.0	3.8	3.8	89.31	0.8	65.4	65.4	57.8	7.65	8.552		
700.0	700.0	700.0	700.0	4.2	4.2	89.31	0.8	65.4	65.4	57.0	8.39	7.793		
800.0	800.0	800.0	800.0	4.5	4.5	89.31	0.8	65.4	65.4	56.3	9.08	7.201		
900.0	900.0	900.0	900.0	4.9	4.9	89.31	0.8	65.4	65.4	55.7	9.73	6.723		
1,000.0	1,000.0	1,000.0	1,000.0	5.2	5.2	89.31	0.8	65.4	65.4	55.1	10.34	6.326		
1,100.0	1,100.0	1,100.0	1,100.0	5.5	5.5	89.31	0.8	65.4	65.4	54.5	10.92	5.989		
1,200.0	1,200.0	1,200.0	1,200.0	5.7	5.7	89.31	0.8	65.4	65.4	53.9	11.48	5.698		
1,300.0	1,300.0	1,300.0	1,300.0	6.0	6.0	89.31	0.8	65.4	65.4	53.4	12.01	5.444		
1,400.0	1,400.0	1,400.0	1,400.0	6.3	6.3	89.31	0.8	65.4	65.4	52.9	12.53	5.220		
1,500.0	1,500.0	1,500.0	1,500.0	6.5	6.5	89.31	0.8	65.4	65.4	52.4	13.03	5.020		
1,600.0	1,600.0	1,600.0	1,600.0	6.8	6.8	89.31	0.8	65.4	65.4	51.9	13.52	4.839		
1,700.0	1,700.0	1,700.0	1,700.0	7.0	7.0	89.31	0.8	65.4	65.4	51.4	13.99	4.676		
1,800.0	1,800.0	1,800.0	1,800.0	7.2	7.2	89.31	0.8	65.4	65.4	51.0	14.45	4.527		
1,900.0	1,900.0	1,900.0	1,900.0	7.4	7.4	89.31	0.8	65.4	65.4	50.5	14.90	4.390		
2,000.0	2,000.0	2,000.0	2,000.0	7.7	7.7	89.31	0.8	65.4	65.4	50.1	15.34	4.265		
2,100.0	2,100.0	2,100.0	2,100.0	7.9	7.9	89.31	0.8	65.4	65.4	49.6	15.77	4.148		
2,200.0	2,200.0	2,200.0	2,200.0	8.1	8.1	89.31	0.8	65.4	65.4	49.2	16.19	4.040		
2,300.0	2,300.0	2,300.0	2,300.0	8.3	8.3	89.31	0.8	65.4	65.4	48.8	16.61	3.939		
2,400.0	2,400.0	2,400.0	2,400.0	8.5	8.5	89.31	0.8	65.4	65.4	48.4	17.02	3.844		
2,500.0	2,500.0	2,500.0	2,500.0	8.7	8.7	89.31	0.8	65.4	65.4	48.0	17.42	3.756		
2,600.0	2,600.0	2,600.0	2,600.0	8.9	8.9	89.31	0.8	65.4	65.4	47.6	17.81	3.672		
2,700.0	2,700.0	2,700.0	2,700.0	9.1	9.1	89.31	0.8	65.4	65.4	47.2	18.20	3.594		
2,800.0	2,800.0	2,800.0	2,800.0	9.3	9.3	89.31	0.8	65.4	65.4	46.8	18.59	3.520		
2,900.0	2,900.0	2,900.0	2,900.0	9.5	9.5	89.31	0.8	65.4	65.4	46.5	18.96	3.449		
3,000.0	3,000.0	3,000.0	3,000.0	9.7	9.7	89.31	0.8	65.4	65.4	46.1	19.34	3.383		
3,100.0	3,100.0	3,100.0	3,100.0	9.9	9.9	89.31	0.8	65.4	65.4	45.7	19.71	3.319		
3,200.0	3,200.0	3,200.0	3,200.0	10.0	10.0	89.31	0.8	65.4	65.4	45.3	20.07	3.259		
3,300.0	3,300.0	3,300.0	3,300.0	10.2	10.2	89.31	0.8	65.4	65.4	45.0	20.44	3.201		
3,400.0	3,400.0	3,400.0	3,400.0	10.4	10.4	89.31	0.8	65.4	65.4	44.6	20.79	3.146		
3,500.0	3,500.0	3,500.0	3,500.0	10.6	10.6	89.31	0.8	65.4	65.4	44.3	21.15	3.093		
3,600.0	3,600.0	3,600.0	3,600.0	10.7	10.7	89.31	0.8	65.4	65.4	43.9	21.50	3.043		
3,700.0	3,700.0	3,700.0	3,700.0	10.9	10.9	89.31	0.8	65.4	65.4	43.6	21.85	2.994		
3,800.0	3,800.0	3,800.0	3,800.0	11.1	11.1	89.31	0.8	65.4	65.4	43.2	22.19	2.948		
3,900.0	3,900.0	3,900.0	3,900.0	11.3	11.3	89.31	0.8	65.4	65.4	42.9	22.53	2.903		
4,000.0	4,000.0	4,000.0	4,000.0	11.4	11.4	89.31	0.8	65.4	65.4	42.5	22.87	2.860		
4,100.0	4,100.0	4,100.0	4,100.0	11.6	11.6	89.31	0.8	65.4	65.4	42.2	23.21	2.819		
4,200.0	4,200.0	4,200.0	4,200.0	11.8	11.8	89.31	0.8	65.4	65.4	41.9	23.54	2.779		
4,300.0	4,300.0	4,300.0	4,300.0	11.9	11.9	89.31	0.8	65.4	65.4	41.5	23.87	2.740		
4,400.0	4,400.0	4,400.0	4,400.0	12.1	12.1	89.31	0.8	65.4	65.4	41.2	24.20	2.703		
4,500.0	4,500.0	4,500.0	4,500.0	12.3	12.3	89.31	0.8	65.4	65.4	40.9	24.53	2.667		
4,600.0	4,600.0	4,600.0	4,600.0	12.4	12.4	89.31	0.8	65.4	65.4	40.6	24.85	2.632		
4,700.0	4,700.0	4,700.0	4,700.0	12.6	12.6	89.31	0.8	65.4	65.4	40.2	25.17	2.599		
4,800.0	4,800.0	4,800.0	4,800.0	12.7	12.7	89.31	0.8	65.4	65.4	39.9	25.49	2.566		
4,900.0	4,900.0	4,900.0	4,900.0	12.9	12.9	89.31	0.8	65.4	65.4	39.6	25.81	2.535		
5,000.0	5,000.0	5,000.0	5,000.0	13.1	13.1	89.31	0.8	65.4	65.4	39.3	26.12	2.504 CC		
5,100.0	5,100.0	5,100.0	5,100.0	13.1	13.2	-94.31	0.8	65.4	65.5	39.1	26.36	2.484 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 506H
Project:	Hat Mesa	TVD Reference:	WELL @ 3703.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3703.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 506H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 506H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 506H - Prelim 2	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad C - Anderson Fed Com 554H - Anderson Fed Com 554H - Anderson Fed Com 554H - Prelim 2													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 (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
				(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,200.0	5,200.0	5,200.0	5,200.0	13.2	13.4	-96.58	0.8	65.4	65.7	39.1	26.58	2.473	
5,285.6	5,285.5	5,285.5	5,285.5	13.3	13.5	-99.69	0.8	65.4	66.2	39.5	26.74	2.477	
5,300.0	5,299.9	5,299.9	5,299.9	13.3	13.5	-100.30	0.8	65.4	66.4	39.6	26.76	2.480	
5,400.0	5,399.7	5,399.7	5,399.7	13.4	13.7	-104.47	0.8	65.4	67.4	40.5	26.96	2.501	
5,500.0	5,499.6	5,499.9	5,499.9	13.5	13.8	-107.80	-0.1	65.4	68.6	41.5	27.11	2.531	
5,600.0	5,599.5	5,600.3	5,600.2	13.6	13.8	-109.64	-2.7	65.4	69.5	42.2	27.23	2.550	
5,700.0	5,699.4	5,700.4	5,700.3	13.8	13.9	-110.36	-6.7	65.3	69.9	42.6	27.31	2.561	
5,800.0	5,799.2	5,800.4	5,800.2	13.9	13.9	-110.99	-10.8	65.2	70.4	42.9	27.44	2.565	
5,900.0	5,899.1	5,900.4	5,900.1	14.1	14.0	-111.61	-14.9	65.2	70.8	43.2	27.58	2.567	
6,000.0	5,999.0	6,000.4	6,000.0	14.3	14.2	-112.22	-19.0	65.1	71.3	43.5	27.74	2.570	
6,100.0	6,098.9	6,100.4	6,099.9	14.5	14.3	-112.83	-23.2	65.1	71.7	43.8	27.90	2.571	
6,200.0	6,198.7	6,200.4	6,199.8	14.7	14.4	-113.43	-27.3	65.0	72.2	44.1	28.07	2.573	
6,300.0	6,298.6	6,300.4	6,299.7	15.0	14.6	-114.01	-31.4	64.9	72.7	44.4	28.26	2.573	
6,400.0	6,398.5	6,400.4	6,399.7	15.2	14.8	-114.60	-35.5	64.9	73.2	44.7	28.45	2.573	
6,500.0	6,498.4	6,500.4	6,499.6	15.4	15.0	-115.17	-39.6	64.8	73.7	45.0	28.66	2.572	
6,600.0	6,598.2	6,600.4	6,599.5	15.7	15.2	-115.74	-43.7	64.7	74.2	45.3	28.87	2.570	
6,700.0	6,698.1	6,700.4	6,699.4	16.0	15.4	-116.29	-47.8	64.7	74.7	45.6	29.10	2.567	
6,800.0	6,798.0	6,800.3	6,799.3	16.3	15.6	-116.84	-51.9	64.6	75.2	45.9	29.34	2.564	
6,900.0	6,897.9	6,900.3	6,899.2	16.5	15.8	-117.39	-56.0	64.6	75.8	46.2	29.59	2.560	
7,000.0	6,997.8	7,000.3	6,999.1	16.8	16.0	-117.92	-60.1	64.5	76.3	46.4	29.86	2.555	
7,100.0	7,097.6	7,100.3	7,099.0	17.2	16.3	-118.45	-64.2	64.4	76.8	46.7	30.14	2.550	
7,200.0	7,197.5	7,200.3	7,198.9	17.5	16.5	-118.97	-68.3	64.4	77.4	47.0	30.43	2.544	
7,300.0	7,297.4	7,300.3	7,298.9	17.8	16.8	-119.48	-72.4	64.3	77.9	47.2	30.73	2.536	
7,400.0	7,397.3	7,400.3	7,398.8	18.1	17.1	-119.99	-76.6	64.3	78.5	47.5	31.05	2.529	
7,500.0	7,497.1	7,500.3	7,498.7	18.4	17.4	-120.49	-80.7	64.2	79.1	47.7	31.37	2.520	
7,600.0	7,597.0	7,600.3	7,598.6	18.8	17.6	-120.98	-84.8	64.1	79.6	47.9	31.72	2.511	
7,700.0	7,696.9	7,700.3	7,698.5	19.1	17.9	-121.46	-88.9	64.1	80.2	48.1	32.07	2.501	
7,800.0	7,796.8	7,800.3	7,798.4	19.5	18.2	-121.94	-93.0	64.0	80.8	48.4	32.44	2.491	
7,900.0	7,896.6	7,900.3	7,898.3	19.8	18.5	-122.41	-97.1	63.9	81.4	48.6	32.82	2.480	
8,000.0	7,996.5	8,000.3	7,998.2	20.2	18.8	-122.87	-101.2	63.9	82.0	48.8	33.22	2.468	
8,100.0	8,096.4	8,100.3	8,098.2	20.6	19.2	-123.33	-105.3	63.8	82.6	49.0	33.63	2.456	
8,200.0	8,196.3	8,200.3	8,198.1	20.9	19.5	-123.78	-109.4	63.8	83.2	49.1	34.05	2.443	
8,300.0	8,296.1	8,300.3	8,298.0	21.3	19.8	-124.23	-113.5	63.7	83.8	49.3	34.48	2.430	
8,400.0	8,396.0	8,400.3	8,397.9	21.7	20.1	-124.66	-117.6	63.6	84.4	49.5	34.93	2.416	
8,500.0	8,495.9	8,500.3	8,497.8	22.1	20.5	-125.09	-121.7	63.6	85.0	49.6	35.39	2.403	
8,600.0	8,595.8	8,600.3	8,597.7	22.5	20.8	-125.52	-125.8	63.5	85.7	49.8	35.86	2.388	
8,700.0	8,695.6	8,700.3	8,697.6	22.8	21.2	-125.94	-130.0	63.4	86.3	49.9	36.35	2.374	
8,800.0	8,795.5	8,800.3	8,797.5	23.2	21.5	-126.35	-134.1	63.4	86.9	50.1	36.84	2.359	
8,900.0	8,895.4	8,900.3	8,897.4	23.6	21.9	-126.76	-138.2	63.3	87.6	50.2	37.35	2.344	
9,000.0	8,995.3	9,000.3	8,997.4	24.0	22.2	-127.16	-142.3	63.3	88.2	50.3	37.87	2.329	
9,019.3	9,014.5	9,019.6	9,016.6	24.1	22.3	-127.23	-143.1	63.3	88.3	50.4	37.96	2.327	
9,100.0	9,095.2	9,100.3	9,097.3	24.4	22.6	-127.26	-146.4	63.2	88.5	50.2	38.29	2.311	
9,200.0	9,195.1	9,200.2	9,197.2	24.7	23.0	-126.47	-150.5	63.1	87.8	49.3	38.49	2.280	
9,304.9	9,300.0	9,305.1	9,301.9	24.9	23.3	58.26	-154.8	63.1	85.9	47.6	38.34	2.242	
9,400.0	9,395.1	9,400.1	9,396.9	25.0	23.7	60.51	-158.7	63.0	83.9	45.9	38.00	2.208	
9,427.4	9,422.5	9,427.5	9,424.2	25.0	23.8	61.18	-159.8	63.0	83.3	45.5	37.88	2.200	
9,450.0	9,445.1	9,450.0	9,446.8	25.0	23.9	62.46	-160.8	63.0	82.6	45.0	37.68	2.193	
9,475.0	9,470.0	9,474.9	9,471.6	24.9	24.0	64.37	-161.8	63.0	81.3	44.1	37.26	2.183	
9,500.0	9,494.8	9,499.5	9,496.2	24.8	24.1	67.22	-162.8	63.0	79.6	43.0	36.62	2.174	
9,525.0	9,519.4	9,523.9	9,520.6	24.7	24.1	71.06	-163.8	62.9	77.6	41.8	35.79	2.168 SF	
9,550.0	9,543.8	9,548.0	9,544.6	24.7	24.2	75.94	-164.8	62.9	75.6	40.7	34.85	2.169	
9,575.0	9,567.8	9,571.7	9,568.3	24.6	24.3	81.81	-165.8	62.9	74.0	40.0	33.95	2.179	

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 506H
Project:	Hat Mesa	TVD Reference:	WELL @ 3703.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3703.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 506H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 506H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 506H - Prelim 2	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad C - Anderson Fed Com 554H - Anderson Fed Com 554H - Anderson Fed Com 554H - Prelim 2												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
9,600.0	9,591.4	9,594.9	9,591.5	24.5	24.4	88.55	-166.7	62.9	73.1	39.8	33.35	2.192	
9,605.5	9,596.5	9,600.0	9,596.5	24.5	24.4	90.12	-166.9	62.9	73.1	39.8	33.29	2.195	
9,625.0	9,614.5	9,617.7	9,614.3	24.4	24.5	95.89	-167.6	62.9	73.5	40.2	33.38	2.203	
9,650.0	9,637.2	9,639.8	9,636.4	24.3	24.6	103.43	-168.6	62.9	75.7	41.5	34.24	2.211	
9,675.0	9,659.2	9,661.4	9,657.9	24.2	24.7	110.77	-169.4	62.9	80.0	44.1	35.85	2.231	
9,700.0	9,680.6	9,682.2	9,678.7	24.1	24.7	117.54	-170.3	62.8	86.5	48.7	37.86	2.286	
9,725.0	9,701.2	9,702.3	9,698.8	24.0	24.8	123.52	-171.1	62.8	95.4	55.5	39.87	2.391	
9,750.0	9,721.1	9,721.5	9,718.0	23.9	24.9	128.62	-171.9	62.8	106.3	64.6	41.66	2.551	
9,775.0	9,740.2	9,740.0	9,736.4	23.8	25.0	132.87	-172.7	62.8	119.1	76.0	43.12	2.763	
9,800.0	9,758.4	9,757.5	9,753.9	23.7	25.0	136.31	-173.4	62.8	133.7	89.4	44.27	3.020	
9,825.0	9,775.7	9,774.0	9,770.4	23.7	25.1	139.03	-174.1	62.8	149.7	104.6	45.16	3.316	
9,850.0	9,792.1	9,789.5	9,786.0	23.6	25.2	141.11	-174.7	62.8	167.1	121.3	45.84	3.645	
9,875.0	9,807.4	9,804.0	9,800.4	23.5	25.2	142.60	-175.3	62.8	185.6	139.3	46.36	4.004	
9,900.0	9,821.7	9,817.4	9,813.8	23.4	25.3	143.54	-175.8	62.8	205.2	158.4	46.77	4.388	
9,925.0	9,834.8	9,829.7	9,826.1	23.4	25.3	143.94	-176.4	62.8	225.7	178.6	47.08	4.793	
9,950.0	9,846.9	9,840.8	9,837.2	23.3	25.3	143.79	-176.8	62.7	247.0	199.6	47.33	5.218	
9,975.0	9,857.7	9,850.8	9,847.2	23.3	25.4	143.02	-177.2	62.7	269.0	221.4	47.53	5.659	
10,000.0	9,867.4	9,859.5	9,855.9	23.2	25.4	141.52	-177.6	62.7	291.6	243.9	47.69	6.114	
10,025.0	9,875.9	9,867.0	9,863.4	23.2	25.4	139.10	-177.9	62.7	314.7	266.9	47.82	6.581	
10,050.0	9,883.1	9,873.2	9,869.6	23.1	25.5	135.46	-178.1	62.7	338.3	290.4	47.93	7.058	
10,075.0	9,889.1	9,878.2	9,874.5	23.1	25.5	130.08	-178.3	62.7	362.3	314.3	48.02	7.544	
10,100.0	9,893.7	9,881.9	9,878.2	23.1	25.5	122.21	-178.5	62.7	386.5	338.4	48.10	8.036	
10,125.0	9,897.1	9,884.2	9,880.6	23.1	25.5	110.90	-178.6	62.7	411.0	362.8	48.17	8.533	
10,150.0	9,899.2	9,885.3	9,881.6	23.1	25.5	95.54	-178.6	62.7	435.6	387.4	48.23	9.032	
10,177.4	9,900.0	9,884.9	9,881.3	23.1	25.5	75.60	-178.6	62.7	462.6	414.4	48.29	9.581	
10,200.0	9,900.0	9,884.0	9,880.4	23.1	25.5	74.92	-178.6	62.7	485.0	436.6	48.33	10.034	
10,300.0	9,900.0	9,879.9	9,876.3	23.1	25.5	71.95	-178.4	62.7	583.9	535.4	48.48	12.044	
10,400.0	9,900.0	9,875.8	9,872.2	23.1	25.5	69.08	-178.2	62.7	683.2	634.6	48.60	14.058	
10,500.0	9,900.0	9,871.7	9,868.1	23.2	25.5	66.32	-178.1	62.7	782.6	733.9	48.69	16.074	
10,600.0	9,900.0	9,867.6	9,864.0	23.4	25.5	63.67	-177.9	62.7	882.1	833.4	48.77	18.088	
10,700.0	9,900.0	9,863.5	9,859.8	24.3	25.4	61.14	-177.7	62.7	981.7	932.9	48.84	20.101	

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 506H
Project:	Hat Mesa	TVD Reference:	WELL @ 3703.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3703.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 506H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 506H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 506H - Prelim 2	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad C - Anderson Fed Com 602H - Anderson Fed Com 602H - Anderson Fed Com 602H - Prelim 2											Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM											Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Rule Assigned:	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
0.0	0.0	1.0	1.0	0.0	0.0	89.42	1.0	99.0	99.0			
100.0	100.0	101.0	101.0	0.5	0.5	89.42	1.0	99.0	99.0	98.0	1.07	92.384
200.0	200.0	201.0	201.0	1.7	1.7	89.42	1.0	99.0	99.0	95.6	3.43	28.872
300.0	300.0	301.0	301.0	2.4	2.4	89.42	1.0	99.0	99.0	94.2	4.83	20.514
400.0	400.0	401.0	401.0	3.0	3.0	89.42	1.0	99.0	99.0	93.1	5.91	16.752
500.0	500.0	501.0	501.0	3.4	3.4	89.42	1.0	99.0	99.0	92.2	6.83	14.493
600.0	600.0	601.0	601.0	3.8	3.8	89.42	1.0	99.0	99.0	91.4	7.65	12.943
700.0	700.0	701.0	701.0	4.2	4.2	89.42	1.0	99.0	99.0	90.7	8.40	11.795
800.0	800.0	801.0	801.0	4.5	4.5	89.42	1.0	99.0	99.0	90.0	9.09	10.900
900.0	900.0	901.0	901.0	4.9	4.9	89.42	1.0	99.0	99.0	89.3	9.73	10.176
1,000.0	1,000.0	1,001.0	1,001.0	5.2	5.2	89.42	1.0	99.0	99.0	88.7	10.34	9.575
1,100.0	1,100.0	1,101.0	1,101.0	5.5	5.5	89.42	1.0	99.0	99.0	88.1	10.93	9.065
1,200.0	1,200.0	1,201.0	1,201.0	5.7	5.7	89.42	1.0	99.0	99.0	87.6	11.48	8.626
1,300.0	1,300.0	1,301.0	1,301.0	6.0	6.0	89.42	1.0	99.0	99.0	87.0	12.02	8.242
1,400.0	1,400.0	1,401.0	1,401.0	6.3	6.3	89.42	1.0	99.0	99.0	86.5	12.53	7.902
1,500.0	1,500.0	1,501.0	1,501.0	6.5	6.5	89.42	1.0	99.0	99.0	86.0	13.03	7.599
1,600.0	1,600.0	1,601.0	1,601.0	6.8	6.8	89.42	1.0	99.0	99.0	85.5	13.52	7.326
1,700.0	1,700.0	1,701.0	1,701.0	7.0	7.0	89.42	1.0	99.0	99.0	85.1	13.99	7.079
1,800.0	1,800.0	1,801.0	1,801.0	7.2	7.2	89.42	1.0	99.0	99.0	84.6	14.45	6.854
1,900.0	1,900.0	1,901.0	1,901.0	7.4	7.5	89.42	1.0	99.0	99.0	84.1	14.90	6.647
2,000.0	2,000.0	2,001.0	2,001.0	7.7	7.7	89.42	1.0	99.0	99.0	83.7	15.34	6.456
2,100.0	2,100.0	2,101.0	2,101.0	7.9	7.9	89.42	1.0	99.0	99.0	83.3	15.77	6.280
2,200.0	2,200.0	2,201.0	2,201.0	8.1	8.1	89.42	1.0	99.0	99.0	82.9	16.19	6.116
2,300.0	2,300.0	2,301.0	2,301.0	8.3	8.3	89.42	1.0	99.0	99.0	82.4	16.61	5.963
2,400.0	2,400.0	2,401.0	2,401.0	8.5	8.5	89.42	1.0	99.0	99.0	82.0	17.02	5.820
2,500.0	2,500.0	2,501.0	2,501.0	8.7	8.7	89.42	1.0	99.0	99.0	81.6	17.42	5.686
2,600.0	2,600.0	2,601.0	2,601.0	8.9	8.9	89.42	1.0	99.0	99.0	81.2	17.81	5.560
2,700.0	2,700.0	2,701.0	2,701.0	9.1	9.1	89.42	1.0	99.0	99.0	80.8	18.20	5.441
2,800.0	2,800.0	2,801.0	2,801.0	9.3	9.3	89.42	1.0	99.0	99.0	80.5	18.59	5.329
2,900.0	2,900.0	2,901.0	2,901.0	9.5	9.5	89.42	1.0	99.0	99.0	80.1	18.97	5.222
3,000.0	3,000.0	3,001.0	3,001.0	9.7	9.7	89.42	1.0	99.0	99.0	79.7	19.34	5.121
3,100.0	3,100.0	3,101.0	3,101.0	9.9	9.9	89.42	1.0	99.0	99.0	79.3	19.71	5.025
3,200.0	3,200.0	3,201.0	3,201.0	10.0	10.0	89.42	1.0	99.0	99.0	79.0	20.08	4.934
3,300.0	3,300.0	3,301.0	3,301.0	10.2	10.2	89.42	1.0	99.0	99.0	78.6	20.44	4.846
3,400.0	3,400.0	3,401.0	3,401.0	10.4	10.4	89.42	1.0	99.0	99.0	78.3	20.80	4.763
3,500.0	3,500.0	3,501.0	3,501.0	10.6	10.6	89.42	1.0	99.0	99.0	77.9	21.15	4.683
3,600.0	3,600.0	3,601.0	3,601.0	10.7	10.8	89.42	1.0	99.0	99.0	77.5	21.50	4.607
3,700.0	3,700.0	3,701.0	3,701.0	10.9	10.9	89.42	1.0	99.0	99.0	77.2	21.85	4.533
3,800.0	3,800.0	3,801.0	3,801.0	11.1	11.1	89.42	1.0	99.0	99.0	76.9	22.19	4.463
3,900.0	3,900.0	3,901.0	3,901.0	11.3	11.3	89.42	1.0	99.0	99.0	76.5	22.53	4.395
4,000.0	4,000.0	4,001.0	4,001.0	11.4	11.4	89.42	1.0	99.0	99.0	76.2	22.87	4.330
4,100.0	4,100.0	4,101.0	4,101.0	11.6	11.6	89.42	1.0	99.0	99.0	75.8	23.21	4.268
4,200.0	4,200.0	4,201.0	4,201.0	11.8	11.8	89.42	1.0	99.0	99.0	75.5	23.54	4.207
4,300.0	4,300.0	4,301.0	4,301.0	11.9	11.9	89.42	1.0	99.0	99.0	75.2	23.87	4.149
4,400.0	4,400.0	4,401.0	4,401.0	12.1	12.1	89.42	1.0	99.0	99.0	74.8	24.20	4.093
4,500.0	4,500.0	4,501.0	4,501.0	12.3	12.3	89.42	1.0	99.0	99.0	74.5	24.53	4.038
4,600.0	4,600.0	4,601.0	4,601.0	12.4	12.4	89.42	1.0	99.0	99.0	74.2	24.85	3.986
4,700.0	4,700.0	4,701.0	4,701.0	12.6	12.6	89.42	1.0	99.0	99.0	73.9	25.17	3.935
4,800.0	4,800.0	4,801.0	4,801.0	12.7	12.7	89.42	1.0	99.0	99.0	73.6	25.49	3.885
4,900.0	4,900.0	4,901.0	4,901.0	12.9	12.9	89.42	1.0	99.0	99.0	73.2	25.81	3.837
5,000.0	5,000.0	5,001.0	5,001.0	13.1	13.1	89.42	1.0	99.0	99.0	72.9	26.13	3.791 CC
5,100.0	5,100.0	5,101.0	5,101.0	13.1	13.2	-93.94	1.0	99.0	99.1	72.7	26.36	3.759 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 506H
Project:	Hat Mesa	TVD Reference:	WELL @ 3703.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3703.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 506H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 506H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 506H - Prelim 2	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad C - Anderson Fed Com 602H - Anderson Fed Com 602H - Anderson Fed Com 602H - Prelim 2													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	5,201.0	5,201.0	13.2	13.4	-95.45	1.0	99.0	99.3	72.7	26.58	3.737	
5,285.6	5,285.5	5,286.5	5,286.5	13.3	13.5	-97.52	1.0	99.0	99.7	73.0	26.75	3.729	
5,300.0	5,299.9	5,300.9	5,300.9	13.3	13.5	-97.92	1.0	99.0	99.8	73.1	26.76	3.730	
5,400.0	5,399.7	5,400.7	5,400.7	13.4	13.7	-100.73	1.0	99.0	100.6	73.7	26.96	3.733	
5,500.0	5,499.6	5,500.6	5,500.6	13.5	13.8	-103.49	1.0	99.0	101.7	74.5	27.18	3.741	
5,600.0	5,599.5	5,600.5	5,600.5	13.6	14.0	-106.18	1.0	99.0	103.0	75.6	27.40	3.757	
5,700.0	5,699.4	5,700.9	5,700.9	13.8	14.1	-108.35	0.1	99.0	104.2	76.7	27.56	3.782	
5,800.0	5,799.2	5,801.3	5,801.3	13.9	14.1	-109.55	-2.5	99.0	105.1	77.4	27.68	3.797	
5,900.0	5,899.1	5,901.4	5,901.3	14.1	14.2	-110.12	-6.3	99.0	105.7	77.9	27.78	3.805	
6,000.0	5,999.0	6,001.4	6,001.2	14.3	14.2	-110.68	-10.2	99.0	106.3	78.4	27.91	3.807	
6,100.0	6,098.9	6,101.4	6,101.2	14.5	14.3	-111.23	-14.0	99.0	106.9	78.8	28.06	3.808	
6,200.0	6,198.7	6,201.4	6,201.1	14.7	14.5	-111.77	-17.8	99.0	107.5	79.3	28.22	3.809	
6,300.0	6,298.6	6,301.4	6,301.0	15.0	14.6	-112.31	-21.6	99.0	108.1	79.7	28.38	3.808	
6,400.0	6,398.5	6,401.4	6,400.9	15.2	14.7	-112.84	-25.4	99.0	108.7	80.2	28.56	3.807	
6,500.0	6,498.4	6,501.4	6,500.8	15.4	14.9	-113.37	-29.3	99.0	109.3	80.6	28.74	3.804	
6,600.0	6,598.2	6,601.4	6,600.8	15.7	15.0	-113.88	-33.1	99.0	110.0	81.1	28.94	3.801	
6,700.0	6,698.1	6,701.4	6,700.7	16.0	15.2	-114.40	-36.9	99.0	110.6	81.5	29.14	3.797	
6,800.0	6,798.0	6,801.4	6,800.6	16.3	15.4	-114.90	-40.7	99.0	111.3	81.9	29.35	3.792	
6,900.0	6,897.9	6,901.4	6,900.5	16.5	15.6	-115.40	-44.5	99.0	112.0	82.4	29.58	3.786	
7,000.0	6,997.8	7,001.4	7,000.4	16.8	15.8	-115.90	-48.4	99.0	112.6	82.8	29.81	3.779	
7,100.0	7,097.6	7,101.3	7,100.4	17.2	16.0	-116.39	-52.2	99.0	113.3	83.3	30.06	3.770	
7,200.0	7,197.5	7,201.3	7,200.3	17.5	16.3	-116.87	-56.0	99.0	114.0	83.7	30.32	3.761	
7,300.0	7,297.4	7,301.3	7,300.2	17.8	16.5	-117.35	-59.8	99.0	114.7	84.1	30.58	3.751	
7,400.0	7,397.3	7,401.3	7,400.1	18.1	16.7	-117.82	-63.6	99.0	115.4	84.6	30.86	3.740	
7,500.0	7,497.1	7,501.3	7,500.0	18.4	17.0	-118.28	-67.5	99.0	116.2	85.0	31.16	3.728	
7,600.0	7,597.0	7,601.3	7,600.0	18.8	17.2	-118.74	-71.3	99.0	116.9	85.4	31.46	3.715	
7,700.0	7,696.9	7,701.3	7,699.9	19.1	17.5	-119.20	-75.1	99.0	117.6	85.8	31.78	3.702	
7,800.0	7,796.8	7,801.3	7,799.8	19.5	17.8	-119.65	-78.9	99.0	118.4	86.3	32.10	3.687	
7,900.0	7,896.6	7,901.3	7,899.7	19.8	18.1	-120.09	-82.7	99.0	119.1	86.7	32.44	3.671	
8,000.0	7,996.5	8,001.3	7,999.6	20.2	18.3	-120.53	-86.6	99.0	119.9	87.1	32.79	3.655	
8,100.0	8,096.4	8,101.3	8,099.6	20.6	18.6	-120.96	-90.4	99.0	120.6	87.5	33.16	3.638	
8,200.0	8,196.3	8,201.3	8,199.5	20.9	18.9	-121.38	-94.2	99.0	121.4	87.9	33.53	3.620	
8,300.0	8,296.1	8,301.3	8,299.4	21.3	19.2	-121.80	-98.0	99.0	122.2	88.2	33.92	3.602	
8,400.0	8,396.0	8,401.3	8,399.3	21.7	19.6	-122.22	-101.8	99.0	122.9	88.6	34.32	3.582	
8,500.0	8,495.9	8,501.2	8,499.2	22.1	19.9	-122.63	-105.7	99.0	123.7	89.0	34.73	3.563	
8,600.0	8,595.8	8,601.2	8,599.2	22.5	20.2	-123.04	-109.5	99.0	124.5	89.4	35.15	3.542	
8,700.0	8,695.6	8,701.2	8,699.1	22.8	20.5	-123.44	-113.3	99.0	125.3	89.7	35.58	3.522	
8,800.0	8,795.5	8,801.2	8,799.0	23.2	20.8	-123.83	-117.1	99.0	126.1	90.1	36.03	3.501	
8,900.0	8,895.4	8,901.2	8,898.9	23.6	21.2	-124.22	-120.9	99.0	126.9	90.4	36.49	3.479	
9,000.0	8,995.3	9,001.2	8,998.8	24.0	21.5	-124.60	-124.8	99.0	127.8	90.8	36.96	3.457	
9,019.3	9,014.5	9,020.5	9,018.1	24.1	21.6	-124.68	-125.5	99.0	127.9	90.9	37.03	3.454	
9,100.0	9,095.2	9,101.2	9,098.8	24.4	21.9	-124.78	-128.6	99.0	128.3	90.9	37.35	3.434	
9,200.0	9,195.1	9,201.2	9,198.7	24.7	22.2	-124.32	-132.4	99.0	127.8	90.2	37.60	3.398	
9,304.9	9,300.0	9,306.0	9,303.4	24.9	22.6	59.75	-136.4	99.0	126.3	88.6	37.61	3.357	
9,400.0	9,395.1	9,401.1	9,398.4	25.0	22.9	61.19	-140.0	99.0	124.5	87.0	37.49	3.320	
9,427.4	9,422.5	9,428.5	9,425.8	25.0	23.0	61.62	-141.1	99.0	124.0	86.5	37.44	3.311	
9,450.0	9,445.1	9,451.0	9,448.3	25.0	23.1	62.58	-141.9	99.0	123.3	86.0	37.33	3.304	
9,475.0	9,470.0	9,475.9	9,473.1	24.9	23.2	63.87	-142.9	99.0	122.0	85.0	37.07	3.292	
9,500.0	9,494.8	9,500.5	9,497.8	24.8	23.3	65.79	-143.8	99.0	120.3	83.6	36.67	3.280	
9,525.0	9,519.4	9,524.9	9,522.2	24.7	23.3	68.36	-144.8	99.0	118.1	82.0	36.15	3.268	
9,550.0	9,543.8	9,549.0	9,546.3	24.7	23.4	71.58	-145.7	99.0	115.8	80.3	35.52	3.259	
9,575.0	9,567.8	9,572.8	9,570.0	24.6	23.5	75.46	-146.6	99.0	113.4	78.6	34.83	3.257 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 506H
Project:	Hat Mesa	TVD Reference:	WELL @ 3703.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3703.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 506H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 506H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 506H - Prelim 2	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad C - Anderson Fed Com 602H - Anderson Fed Com 602H - Anderson Fed Com 602H - Prelim 2													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	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)					
9,600.0	9,591.4	9,596.0	9,593.2	24.5	23.6	79.94	-147.5	99.0	111.3	77.2	34.13	3.262	
9,625.0	9,614.5	9,618.8	9,616.0	24.4	23.7	84.96	-148.4	99.0	109.9	76.3	33.57	3.273	
9,648.5	9,635.8	9,639.7	9,636.8	24.3	23.8	90.03	-149.2	99.0	109.3	76.0	33.28	3.285	
9,650.0	9,637.2	9,641.0	9,638.1	24.3	23.8	90.36	-149.2	99.0	109.3	76.1	33.27	3.286	
9,675.0	9,659.2	9,662.5	9,659.7	24.2	23.8	95.96	-150.0	99.0	110.1	76.7	33.41	3.297	
9,700.0	9,680.6	9,683.4	9,680.5	24.1	23.9	101.53	-150.8	99.0	112.6	78.6	34.05	3.308	
9,725.0	9,701.2	9,703.5	9,700.6	24.0	24.0	106.88	-151.6	99.0	117.1	81.9	35.17	3.330	
9,750.0	9,721.1	9,722.9	9,719.9	23.9	24.1	111.82	-152.3	99.0	123.7	87.1	36.59	3.380	
9,775.0	9,740.2	9,741.3	9,738.4	23.8	24.1	116.24	-153.0	99.0	132.4	94.3	38.13	3.472	
9,800.0	9,758.4	9,758.9	9,755.9	23.7	24.2	120.06	-153.7	99.0	143.2	103.6	39.63	3.614	
9,825.0	9,775.7	9,775.5	9,772.5	23.7	24.3	123.25	-154.3	99.0	155.9	115.0	40.97	3.806	
9,850.0	9,792.1	9,791.1	9,788.1	23.6	24.3	125.82	-154.9	99.0	170.4	128.3	42.12	4.046	
9,875.0	9,807.4	9,805.6	9,802.6	23.5	24.4	127.78	-155.5	99.0	186.5	143.4	43.08	4.328	
9,900.0	9,821.7	9,819.1	9,816.1	23.4	24.4	129.14	-156.0	99.0	203.9	160.0	43.87	4.649	
9,925.0	9,834.8	9,831.4	9,828.4	23.4	24.5	129.89	-156.5	99.0	222.6	178.1	44.50	5.001	
9,950.0	9,846.9	9,842.6	9,839.6	23.3	24.5	130.01	-156.9	99.0	242.3	197.3	45.02	5.382	
9,975.0	9,857.7	9,852.6	9,849.6	23.3	24.5	129.47	-157.3	99.0	262.9	217.5	45.44	5.787	
10,000.0	9,867.4	9,861.4	9,858.4	23.2	24.6	128.18	-157.6	99.0	284.4	238.6	45.78	6.212	
10,025.0	9,875.9	9,869.0	9,866.0	23.2	24.6	126.01	-157.9	99.0	306.5	260.5	46.06	6.655	
10,050.0	9,883.1	9,875.3	9,872.3	23.1	24.6	122.79	-158.2	99.0	329.2	282.9	46.29	7.112	
10,075.0	9,889.1	9,880.3	9,877.3	23.1	24.6	118.27	-158.3	99.0	352.4	305.9	46.48	7.582	
10,100.0	9,893.7	9,884.0	9,881.0	23.1	24.7	112.15	-158.5	99.0	376.0	329.3	46.65	8.060	
10,125.0	9,897.1	9,886.5	9,883.5	23.1	24.7	104.14	-158.6	99.0	399.9	353.1	46.79	8.547	
10,150.0	9,899.2	9,887.6	9,884.6	23.1	24.7	94.13	-158.6	99.0	423.9	377.0	46.91	9.038	
10,177.4	9,900.0	9,887.4	9,884.3	23.1	24.7	81.32	-158.6	99.0	450.5	403.5	47.02	9.580	
10,200.0	9,900.0	9,886.5	9,883.5	23.1	24.7	80.88	-158.6	99.0	472.4	425.3	47.10	10.029	
10,300.0	9,900.0	9,882.7	9,879.6	23.1	24.6	78.94	-158.4	99.0	570.1	522.7	47.38	12.032	
10,400.0	9,900.0	9,878.8	9,875.8	23.1	24.6	77.03	-158.3	99.0	668.4	620.9	47.57	14.052	
10,500.0	9,900.0	9,875.0	9,872.0	23.2	24.6	75.14	-158.1	99.0	767.2	719.5	47.71	16.081	
10,600.0	9,900.0	9,871.2	9,868.2	23.4	24.6	73.29	-158.0	99.0	866.2	818.4	47.82	18.114	
10,700.0	9,900.0	9,867.4	9,864.4	24.3	24.6	71.47	-157.9	99.0	965.4	917.5	47.92	20.149	



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 506H
Project:	Hat Mesa	TVD Reference:	WELL @ 3703.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3703.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 506H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 506H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 506H - Prelim 2	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad C - Anderson Fed Com 702H - Anderson Fed Com 702H - Anderson Fed Com 702H - Prelim 2													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 (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
				(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	0.0	0.0	0.0	0.0	-90.37	-0.2	-33.0	33.3				
100.0	100.0	96.0	96.0	0.5	0.5	-90.37	-0.2	-33.0	33.0	32.0	1.04	31.773	
200.0	200.0	196.0	196.0	1.7	1.7	-90.37	-0.2	-33.0	33.0	29.6	3.38	9.779	
300.0	300.0	296.0	296.0	2.4	2.4	-90.37	-0.2	-33.0	33.0	28.2	4.79	6.885	
400.0	400.0	396.0	396.0	3.0	2.9	-90.37	-0.2	-33.0	33.0	27.1	5.89	5.609	
500.0	500.0	496.0	496.0	3.4	3.4	-90.37	-0.2	-33.0	33.0	26.2	6.81	4.847	
600.0	600.0	596.0	596.0	3.8	3.8	-90.37	-0.2	-33.0	33.0	25.4	7.63	4.326	
700.0	700.0	696.0	696.0	4.2	4.2	-90.37	-0.2	-33.0	33.0	24.6	8.38	3.940	
800.0	800.0	796.0	796.0	4.5	4.5	-90.37	-0.2	-33.0	33.0	23.9	9.07	3.640	
900.0	900.0	896.0	896.0	4.9	4.9	-90.37	-0.2	-33.0	33.0	23.3	9.72	3.398	
1,000.0	1,000.0	996.0	996.0	5.2	5.2	-90.37	-0.2	-33.0	33.0	22.7	10.33	3.196	
1,100.0	1,100.0	1,096.0	1,096.0	5.5	5.4	-90.37	-0.2	-33.0	33.0	22.1	10.91	3.026	
1,200.0	1,200.0	1,196.0	1,196.0	5.7	5.7	-90.37	-0.2	-33.0	33.0	21.5	11.47	2.879	
1,300.0	1,300.0	1,296.0	1,296.0	6.0	6.0	-90.37	-0.2	-33.0	33.0	21.0	12.00	2.750	
1,400.0	1,400.0	1,396.0	1,396.0	6.3	6.3	-90.37	-0.2	-33.0	33.0	20.5	12.52	2.637	
1,500.0	1,500.0	1,496.0	1,496.0	6.5	6.5	-90.37	-0.2	-33.0	33.0	20.0	13.02	2.535	
1,600.0	1,600.0	1,596.0	1,596.0	6.8	6.7	-90.37	-0.2	-33.0	33.0	19.5	13.51	2.444	
1,700.0	1,700.0	1,696.0	1,696.0	7.0	7.0	-90.37	-0.2	-33.0	33.0	19.0	13.98	2.362	
1,800.0	1,800.0	1,796.0	1,796.0	7.2	7.2	-90.37	-0.2	-33.0	33.0	18.6	14.44	2.286	
1,900.0	1,900.0	1,896.0	1,896.0	7.4	7.4	-90.37	-0.2	-33.0	33.0	18.1	14.89	2.217	
2,000.0	2,000.0	1,996.0	1,996.0	7.7	7.7	-90.37	-0.2	-33.0	33.0	17.7	15.33	2.154	
2,100.0	2,100.0	2,096.0	2,096.0	7.9	7.9	-90.37	-0.2	-33.0	33.0	17.3	15.76	2.095	
2,200.0	2,200.0	2,196.0	2,196.0	8.1	8.1	-90.37	-0.2	-33.0	33.0	16.8	16.18	2.040	
2,300.0	2,300.0	2,296.0	2,296.0	8.3	8.3	-90.37	-0.2	-33.0	33.0	16.4	16.60	1.989	
2,400.0	2,400.0	2,396.0	2,396.0	8.5	8.5	-90.37	-0.2	-33.0	33.0	16.0	17.01	1.941	
2,500.0	2,500.0	2,496.0	2,496.0	8.7	8.7	-90.37	-0.2	-33.0	33.0	15.6	17.41	1.896	
2,600.0	2,600.0	2,596.0	2,596.0	8.9	8.9	-90.37	-0.2	-33.0	33.0	15.2	17.80	1.854	
2,700.0	2,700.0	2,696.0	2,696.0	9.1	9.1	-90.37	-0.2	-33.0	33.0	14.8	18.19	1.815	
2,800.0	2,800.0	2,796.0	2,796.0	9.3	9.3	-90.37	-0.2	-33.0	33.0	14.4	18.58	1.777	
2,900.0	2,900.0	2,896.0	2,896.0	9.5	9.5	-90.37	-0.2	-33.0	33.0	14.1	18.96	1.742	
3,000.0	3,000.0	2,996.0	2,996.0	9.7	9.7	-90.37	-0.2	-33.0	33.0	13.7	19.33	1.708	
3,100.0	3,100.0	3,096.0	3,096.0	9.9	9.8	-90.37	-0.2	-33.0	33.0	13.3	19.70	1.676	
3,200.0	3,200.0	3,196.0	3,196.0	10.0	10.0	-90.37	-0.2	-33.0	33.0	12.9	20.07	1.645	
3,300.0	3,300.0	3,296.0	3,296.0	10.2	10.2	-90.37	-0.2	-33.0	33.0	12.6	20.43	1.616	
3,400.0	3,400.0	3,396.0	3,396.0	10.4	10.4	-90.37	-0.2	-33.0	33.0	12.2	20.79	1.588	
3,500.0	3,500.0	3,496.0	3,496.0	10.6	10.6	-90.37	-0.2	-33.0	33.0	11.9	21.14	1.562	
3,600.0	3,600.0	3,596.0	3,596.0	10.7	10.7	-90.37	-0.2	-33.0	33.0	11.5	21.49	1.536	
3,700.0	3,700.0	3,696.0	3,696.0	10.9	10.9	-90.37	-0.2	-33.0	33.0	11.2	21.84	1.512	
3,800.0	3,800.0	3,796.0	3,796.0	11.1	11.1	-90.37	-0.2	-33.0	33.0	10.8	22.18	1.488 Level 3	
3,900.0	3,900.0	3,896.0	3,896.0	11.3	11.3	-90.37	-0.2	-33.0	33.0	10.5	22.53	1.466 Level 3	
4,000.0	4,000.0	3,996.0	3,996.0	11.4	11.4	-90.37	-0.2	-33.0	33.0	10.2	22.86	1.444 Level 3	
4,100.0	4,100.0	4,096.0	4,096.0	11.6	11.6	-90.37	-0.2	-33.0	33.0	9.8	23.20	1.423 Level 3	
4,200.0	4,200.0	4,196.0	4,196.0	11.8	11.8	-90.37	-0.2	-33.0	33.0	9.5	23.53	1.403 Level 3	
4,300.0	4,300.0	4,296.0	4,296.0	11.9	11.9	-90.37	-0.2	-33.0	33.0	9.2	23.86	1.383 Level 3	
4,400.0	4,400.0	4,396.0	4,396.0	12.1	12.1	-90.37	-0.2	-33.0	33.0	8.8	24.19	1.365 Level 3	
4,500.0	4,500.0	4,496.0	4,496.0	12.3	12.3	-90.37	-0.2	-33.0	33.0	8.5	24.52	1.347 Level 3	
4,600.0	4,600.0	4,596.0	4,596.0	12.4	12.4	-90.37	-0.2	-33.0	33.0	8.2	24.84	1.329 Level 3	
4,700.0	4,700.0	4,696.0	4,696.0	12.6	12.6	-90.37	-0.2	-33.0	33.0	7.9	25.16	1.312 Level 3	
4,800.0	4,800.0	4,796.0	4,796.0	12.7	12.7	-90.37	-0.2	-33.0	33.0	7.5	25.48	1.296 Level 3	
4,900.0	4,900.0	4,896.0	4,896.0	12.9	12.9	-90.37	-0.2	-33.0	33.0	7.2	25.80	1.280 Level 3	
5,000.0	5,000.0	4,996.0	4,996.0	13.1	13.1	-90.37	-0.2	-33.0	33.0	6.9	26.12	1.264 Level 3	
5,100.0	5,100.0	5,096.0	5,096.0	13.1	13.2	88.28	-0.2	-33.0	33.0	6.6	26.36	1.251 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 506H
Project:	Hat Mesa	TVD Reference:	WELL @ 3703.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3703.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 506H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 506H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 506H - Prelim 2	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad C - Anderson Fed Com 702H - Anderson Fed Com 702H - Anderson Fed Com 702H - Prelim 2													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 (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)			
5,146.0	5,146.0	5,142.0	5,142.0	13.2	13.3	90.00	-0.2	-33.0	33.0	6.5	26.45	1.246 Level 3, CC	
5,200.0	5,200.0	5,196.0	5,196.0	13.2	13.4	92.83	-0.2	-33.0	33.0	6.4	26.57	1.242 Level 3, ES, SF	
5,285.6	5,285.5	5,281.5	5,281.5	13.3	13.5	99.05	-0.2	-33.0	33.4	6.6	26.74	1.248 Level 3	
5,300.0	5,299.9	5,295.9	5,295.9	13.3	13.5	100.26	-0.2	-33.0	33.5	6.7	26.76	1.252 Level 3	
5,400.0	5,399.7	5,395.7	5,395.7	13.4	13.7	108.36	-0.2	-33.0	34.7	7.8	26.96	1.289 Level 3	
5,500.0	5,499.6	5,495.2	5,495.2	13.5	13.8	114.83	-0.5	-33.8	37.1	10.0	27.14	1.369 Level 3	
5,600.0	5,599.5	5,594.7	5,594.6	13.6	13.9	118.52	-1.3	-36.1	41.0	13.7	27.32	1.502	
5,700.0	5,699.4	5,694.1	5,693.9	13.8	14.0	119.81	-2.8	-40.1	46.1	18.6	27.50	1.675	
5,800.0	5,799.2	5,793.4	5,793.1	13.9	14.1	119.32	-4.8	-45.7	52.2	24.5	27.69	1.885	
5,900.0	5,899.1	5,892.5	5,891.9	14.1	14.3	117.63	-7.4	-52.9	59.4	31.5	27.88	2.130	
6,000.0	5,999.0	5,992.1	5,991.1	14.3	14.4	115.65	-10.4	-61.0	67.3	39.2	28.09	2.395	
6,100.0	6,098.9	6,091.8	6,090.4	14.5	14.6	114.09	-13.4	-69.2	75.2	46.9	28.32	2.657	
6,200.0	6,198.7	6,191.4	6,189.7	14.7	14.8	112.83	-16.4	-77.4	83.2	54.7	28.55	2.914	
6,300.0	6,298.6	6,291.1	6,289.0	15.0	15.0	111.79	-19.3	-85.5	91.3	62.4	28.81	3.168	
6,400.0	6,398.5	6,390.8	6,388.3	15.2	15.3	110.91	-22.3	-93.7	99.3	70.2	29.08	3.416	
6,500.0	6,498.4	6,490.4	6,487.5	15.4	15.5	110.17	-25.3	-101.9	107.4	78.0	29.36	3.658	
6,600.0	6,598.2	6,590.1	6,586.8	15.7	15.8	109.53	-28.2	-110.0	115.5	85.8	29.65	3.894	
6,700.0	6,698.1	6,689.8	6,686.1	16.0	16.1	108.98	-31.2	-118.2	123.6	93.6	29.96	4.125	
6,800.0	6,798.0	6,789.4	6,785.4	16.3	16.4	108.49	-34.2	-126.3	131.7	101.4	30.28	4.349	
6,900.0	6,897.9	6,889.1	6,884.7	16.5	16.7	108.06	-37.2	-134.5	139.8	109.2	30.61	4.567	
7,000.0	6,997.8	6,988.7	6,984.0	16.8	17.0	107.68	-40.1	-142.7	147.9	117.0	30.96	4.779	
7,100.0	7,097.6	7,088.4	7,083.3	17.2	17.3	107.34	-43.1	-150.8	156.1	124.8	31.31	4.985	
7,200.0	7,197.5	7,188.1	7,182.5	17.5	17.6	107.03	-46.1	-159.0	164.2	132.5	31.68	5.184	
7,300.0	7,297.4	7,287.7	7,281.8	17.8	18.0	106.75	-49.0	-167.2	172.4	140.3	32.05	5.377	
7,400.0	7,397.3	7,387.4	7,381.1	18.1	18.4	106.50	-52.0	-175.3	180.5	148.1	32.44	5.565	
7,500.0	7,497.1	7,487.1	7,480.4	18.4	18.7	106.27	-55.0	-183.5	188.7	155.8	32.83	5.746	
7,600.0	7,597.0	7,586.7	7,579.7	18.8	19.1	106.05	-57.9	-191.6	196.8	163.6	33.24	5.922	
7,700.0	7,696.9	7,686.4	7,679.0	19.1	19.5	105.86	-60.9	-199.8	205.0	171.3	33.65	6.092	
7,800.0	7,796.8	7,786.1	7,778.2	19.5	19.9	105.68	-63.9	-208.0	213.1	179.1	34.07	6.256	
7,900.0	7,896.6	7,885.7	7,877.5	19.8	20.3	105.51	-66.9	-216.1	221.3	186.8	34.50	6.415	
8,000.0	7,996.5	7,985.4	7,976.8	20.2	20.7	105.35	-69.8	-224.3	229.5	194.5	34.93	6.569	
8,100.0	8,096.4	8,085.1	8,076.1	20.6	21.1	105.21	-72.8	-232.5	237.6	202.2	35.37	6.718	
8,200.0	8,196.3	8,184.7	8,175.4	20.9	21.5	105.07	-75.8	-240.6	245.8	210.0	35.82	6.861	
8,300.0	8,296.1	8,284.4	8,274.7	21.3	21.9	104.95	-78.7	-248.8	254.0	217.7	36.28	7.000	
8,400.0	8,396.0	8,384.0	8,374.0	21.7	22.3	104.83	-81.7	-256.9	262.1	225.4	36.74	7.135	
8,500.0	8,495.9	8,483.7	8,473.2	22.1	22.8	104.72	-84.7	-265.1	270.3	233.1	37.21	7.265	
8,600.0	8,595.8	8,583.4	8,572.5	22.5	23.2	104.61	-87.7	-273.3	278.5	240.8	37.68	7.390	
8,700.0	8,695.6	8,683.0	8,671.8	22.8	23.6	104.51	-90.6	-281.4	286.6	248.5	38.16	7.512	
8,800.0	8,795.5	8,782.7	8,771.1	23.2	24.1	104.42	-93.6	-289.6	294.8	256.2	38.64	7.629	
8,900.0	8,895.4	8,882.4	8,870.4	23.6	24.5	104.33	-96.6	-297.8	303.0	263.8	39.13	7.743	
9,000.0	8,995.3	8,982.0	8,969.7	24.0	25.0	104.25	-99.5	-305.9	311.1	271.5	39.62	7.853	
9,019.3	9,014.5	9,001.3	8,988.8	24.1	25.1	104.23	-100.1	-307.5	312.7	273.0	39.70	7.876	
9,100.0	9,095.2	9,081.7	9,069.0	24.4	25.4	104.13	-102.5	-314.1	319.2	279.1	40.08	7.963	
9,200.0	9,195.1	9,181.4	9,168.3	24.7	25.9	103.74	-105.5	-322.2	326.8	286.2	40.58	8.053	
9,304.9	9,300.0	9,285.9	9,272.4	24.9	26.4	-74.10	-108.6	-330.8	334.4	293.3	41.09	8.138	
9,400.0	9,395.1	9,380.6	9,366.8	25.0	26.8	-74.91	-111.4	-338.6	341.2	299.6	41.58	8.206	
9,427.4	9,422.5	9,407.9	9,394.0	25.0	26.9	-75.14	-112.2	-340.8	343.1	301.4	41.70	8.228	
9,450.0	9,445.1	9,430.4	9,416.4	25.0	27.0	-74.92	-112.9	-342.6	344.6	302.8	41.80	8.243	
9,475.0	9,470.0	9,455.2	9,441.0	24.9	27.2	-75.26	-113.6	-344.7	345.9	304.0	41.93	8.251	
9,500.0	9,494.8	9,479.8	9,465.6	24.8	27.3	-75.83	-114.4	-346.7	347.0	304.9	42.06	8.250	
9,525.0	9,519.4	9,504.2	9,489.9	24.7	27.4	-76.62	-115.1	-348.7	347.8	305.6	42.20	8.240	
9,550.0	9,543.8	9,528.3	9,513.8	24.7	27.5	-77.61	-115.8	-350.7	348.4	306.0	42.36	8.223	

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 506H
Project:	Hat Mesa	TVD Reference:	WELL @ 3703.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3703.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 506H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 506H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 506H - Prelim 2	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad C - Anderson Fed Com 702H - Anderson Fed Com 702H - Anderson Fed Com 702H - Prelim 2												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 (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,575.0	9,567.8	9,552.0	9,537.5	24.6	27.6	-78.79	-116.5	-352.6	348.8	306.3	42.54	8.199	
9,600.0	9,591.4	9,575.3	9,560.6	24.5	27.7	-80.13	-117.2	-354.5	349.2	306.5	42.75	8.170	
9,625.0	9,614.5	9,598.0	9,583.3	24.4	27.8	-81.61	-117.9	-356.4	349.7	306.7	42.97	8.139	
9,650.0	9,637.2	9,620.3	9,605.5	24.3	27.9	-83.21	-118.6	-358.2	350.3	307.1	43.22	8.105	
9,675.0	9,659.2	9,641.8	9,627.0	24.2	28.0	-84.88	-119.2	-360.0	351.2	307.7	43.50	8.073	
9,700.0	9,680.6	9,662.8	9,647.8	24.1	28.1	-86.59	-119.8	-361.7	352.4	308.6	43.81	8.045	
9,725.0	9,701.2	9,682.9	9,667.9	24.0	28.2	-88.31	-120.4	-363.3	354.2	310.0	44.15	8.022	
9,750.0	9,721.1	9,702.3	9,687.2	23.9	28.3	-89.99	-121.0	-364.9	356.5	312.0	44.51	8.010	
9,775.0	9,740.2	9,720.9	9,705.7	23.8	28.4	-91.61	-121.6	-366.4	359.6	314.7	44.90	8.009	
9,800.0	9,758.4	9,738.5	9,723.3	23.7	28.5	-93.12	-122.1	-367.9	363.5	318.2	45.30	8.024	
9,825.0	9,775.7	9,755.2	9,739.9	23.7	28.6	-94.48	-122.6	-369.2	368.3	322.6	45.71	8.057	
9,850.0	9,792.1	9,770.9	9,755.6	23.6	28.7	-95.67	-123.1	-370.5	374.1	328.0	46.12	8.111	
9,875.0	9,807.4	9,785.6	9,770.2	23.5	28.7	-96.65	-123.5	-371.7	381.0	334.5	46.53	8.189	
9,900.0	9,821.7	9,799.2	9,783.8	23.4	28.8	-97.39	-123.9	-372.8	389.0	342.1	46.91	8.293	
9,925.0	9,834.8	9,811.7	9,796.2	23.4	28.8	-97.87	-124.3	-373.9	398.2	350.9	47.27	8.423	
9,950.0	9,846.9	9,823.1	9,807.5	23.3	28.9	-98.06	-124.6	-374.8	408.4	360.8	47.60	8.581	
9,975.0	9,857.7	9,833.2	9,817.6	23.3	28.9	-97.95	-124.9	-375.6	419.8	371.9	47.89	8.767	
10,000.0	9,867.4	9,842.2	9,826.6	23.2	29.0	-97.50	-125.2	-376.4	432.3	384.2	48.14	8.980	
10,025.0	9,875.9	9,850.0	9,834.3	23.2	29.0	-96.70	-125.4	-377.0	445.8	397.5	48.35	9.221	
10,050.0	9,883.1	9,856.4	9,840.8	23.1	29.1	-95.53	-125.6	-377.5	460.3	411.8	48.53	9.486	
10,075.0	9,889.1	9,861.7	9,846.0	23.1	29.1	-93.98	-125.8	-378.0	475.7	427.1	48.66	9.776	
10,100.0	9,893.7	9,865.6	9,849.9	23.1	29.1	-92.02	-125.9	-378.3	492.0	443.2	48.77	10.088	
10,125.0	9,897.1	9,868.3	9,852.5	23.1	29.1	-89.67	-126.0	-378.5	508.9	460.0	48.84	10.419	
10,150.0	9,899.2	9,869.6	9,853.9	23.1	29.1	-86.92	-126.0	-378.6	526.4	477.6	48.89	10.767	
10,177.4	9,900.0	9,869.6	9,853.8	23.1	29.1	-83.47	-126.0	-378.6	546.3	497.4	48.92	11.167	
10,200.0	9,900.0	9,868.9	9,853.2	23.1	29.1	-83.37	-126.0	-378.6	563.1	514.2	48.93	11.508	
10,300.0	9,900.0	9,866.0	9,850.3	23.1	29.1	-82.91	-125.9	-378.3	641.8	592.9	48.87	13.132	
10,400.0	9,900.0	9,863.1	9,847.3	23.1	29.1	-82.46	-125.8	-378.1	725.7	677.0	48.72	14.895	
10,500.0	9,900.0	9,860.1	9,844.4	23.2	29.1	-82.01	-125.7	-377.8	813.3	764.7	48.54	16.755	
10,600.0	9,900.0	9,857.2	9,841.5	23.4	29.1	-81.56	-125.6	-377.6	903.4	855.0	48.36	18.680	
10,700.0	9,900.0	9,854.2	9,838.6	24.3	29.1	-81.10	-125.5	-377.4	995.4	947.2	48.20	20.651	

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 506H
Project:	Hat Mesa	TVD Reference:	WELL @ 3703.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3703.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 506H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 506H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 506H - Prelim 2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 3703.5usft (Original Well Ele

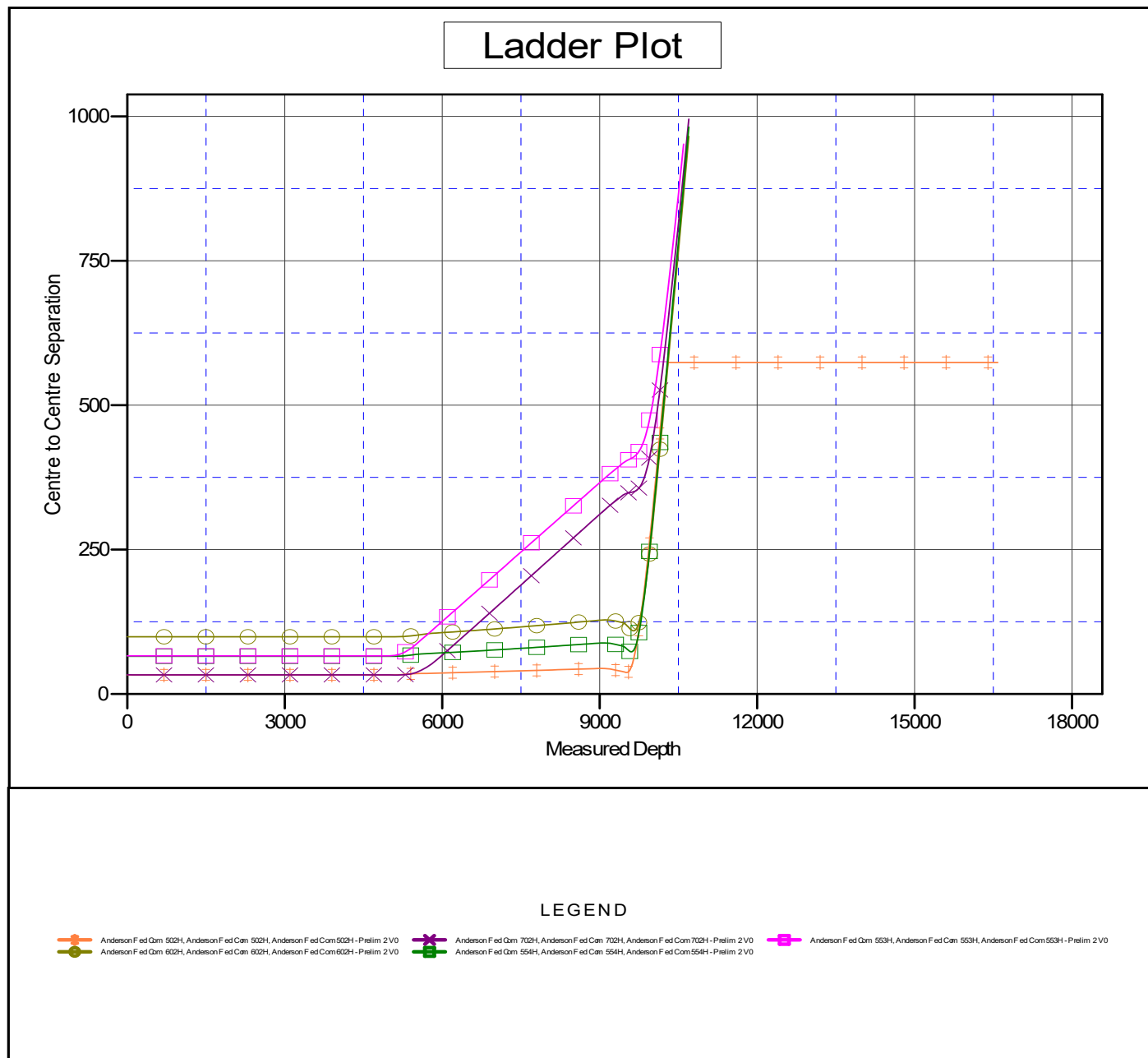
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Anderson Fed Com 506H

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 506H
Project:	Hat Mesa	TVD Reference:	WELL @ 3703.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3703.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 506H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 506H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 506H - Prelim 2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 3703.5usft (Original Well Ele

Offset Depths are relative to Offset Datum

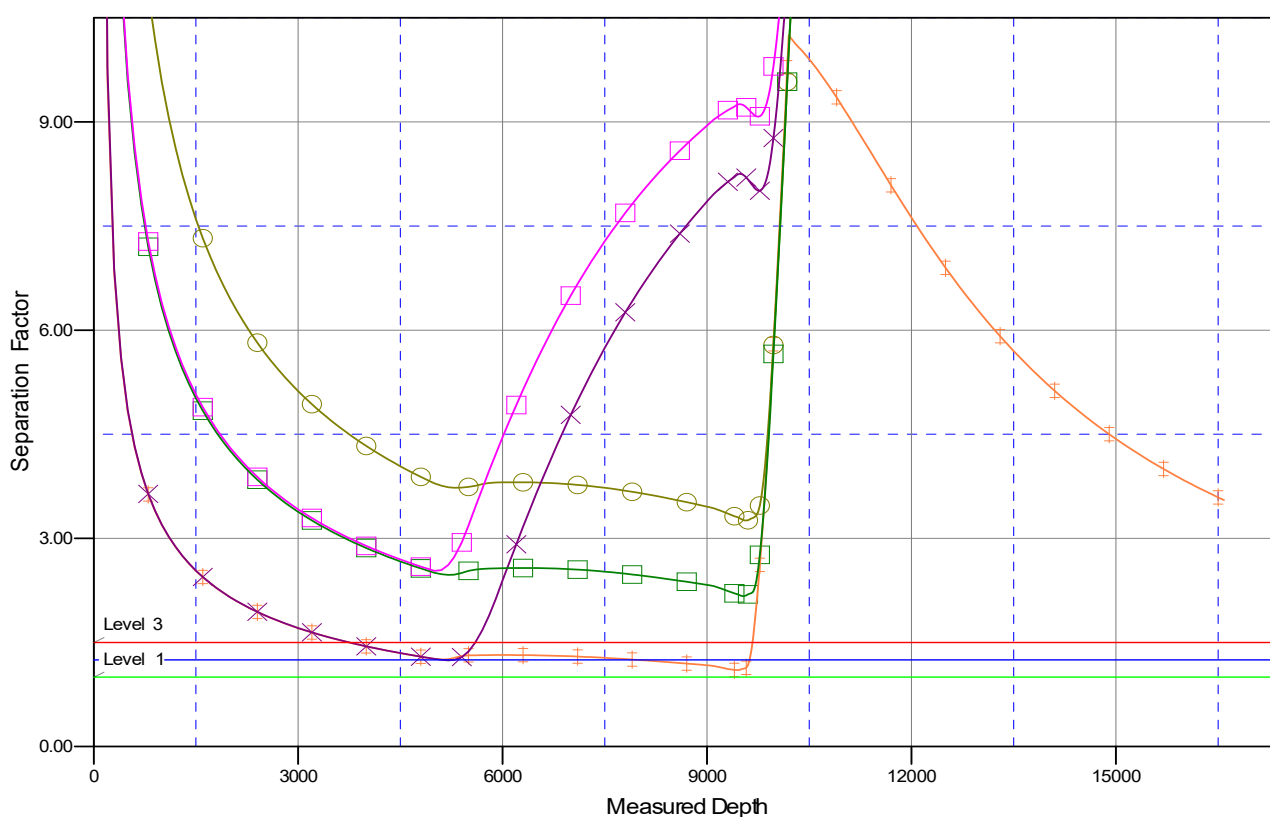
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Anderson Fed Com 506H

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 502H, Anderson Fed Com 502H, Anderson Fed Com 502H - Prelim 2 V0
 Anderson Fed Com 503H, Anderson Fed Com 503H, Anderson Fed Com 503H - Prelim 2 V0
 Anderson Fed Com 504H, Anderson Fed Com 504H, Anderson Fed Com 504H - Prelim 2 V0
 Anderson Fed Com 505H, Anderson Fed Com 505H, Anderson Fed Com 505H - Prelim 2 V0
 Anderson Fed Com 506H, Anderson Fed Com 506H, Anderson Fed Com 506H - Prelim 2 V0
 Anderson Fed Com 507H, Anderson Fed Com 507H, Anderson Fed Com 507H - Prelim 2 V0
 Anderson Fed Com 508H, Anderson Fed Com 508H, Anderson Fed Com 508H - Prelim 2 V0
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 Anderson Fed Com 510H, Anderson Fed Com 510H, Anderson Fed Com 510H - Prelim 2 V0
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CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
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811 S. First St., Artesia, NM 88210
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District IV
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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 63679

CONDITIONS

Operator: ADVANCE ENERGY PARTNERS HAT MESA, LLC 11490 Westheimer Rd., Ste 950 Houston, TX 77077	OGRID: 372417
	Action Number: 63679
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	11/29/2021