

Well Name: ANDERSON FED COM	Well Location: T22S / R32E / SEC 2 / LOT 4 /	County or Parish/State:
Well Number: 505H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM120905	Unit or CA Name:	Unit or CA Number:
US Well Number:	Well Status: Approved Application for Permit to Drill	Operator: ADVANCE ENERGY PARTNERS HAT MESA LLC

Notice of Intent

Sundry ID: 2636149

Type of Submission: Notice of Intent Type of Action: Other

Date Sundry Submitted: 09/27/2021 Time Sundry Submitted: 03:01

Date proposed operation will begin: 10/15/2021

Procedure Description: Request to move Surface Hole Location from 180' FNL & 611' FWL, Section 2, T-22-S, R-32-E, Lot 4 to 180' FNL & 776' FWL, Section 2, T-22-S, R-32-E, Lot 4. Request to move Bottom Hole Location from 2540' FSL & 330' FWL, Section 26, T-21-S, R-32-E, NWSW to 2540' FSL & 1254' FWL, Section 26, T-21-S, R-32-E, NWSW. 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_505H_SHL_BHL_etc_Sundry_Attachment_20210927150005.pdf

Well Name: ANDERSON FED COM

Well Location: T22S / R32E / SEC 2 /
LOT 4 /

County or Parish/State:

Well Number: 505H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM120905

Unit or CA Name:

Unit or CA Number:

US Well Number:

Well Status: Approved Application for
Permit to Drill

Operator: ADVANCE ENERGY
PARTNERS HAT MESA LLC

Operator Certification

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

Operator Electronic Signature: BRIAN WOOD

Signed on: SEP 27, 2021 03:00 PM

Name: ADVANCE ENERGY PARTNERS HAT MESA LLC

Title: President

Street Address: 37 VERANO LOOP

City: SANTA FE State: NM

Phone: (505) 466-8120

Email address: AFMSS@PERMITSWEST.COM

Field Representative

Representative Name:

Street Address:

City: State: Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: cwalls@blm.gov

Disposition: Approved

Disposition Date: 10/13/2021

Signature: Chris Walls

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone (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 30-025-49428	Pool Code 51683	Pool Name RED TANK; BONE SPRING
Property Code	Property Name ANDERSON FED COM	Well Number 505H
OGRID No. 372417	Operator Name ADVANCE ENERGY PARTNERS HAT MESA, LLC	Elevation 3685'

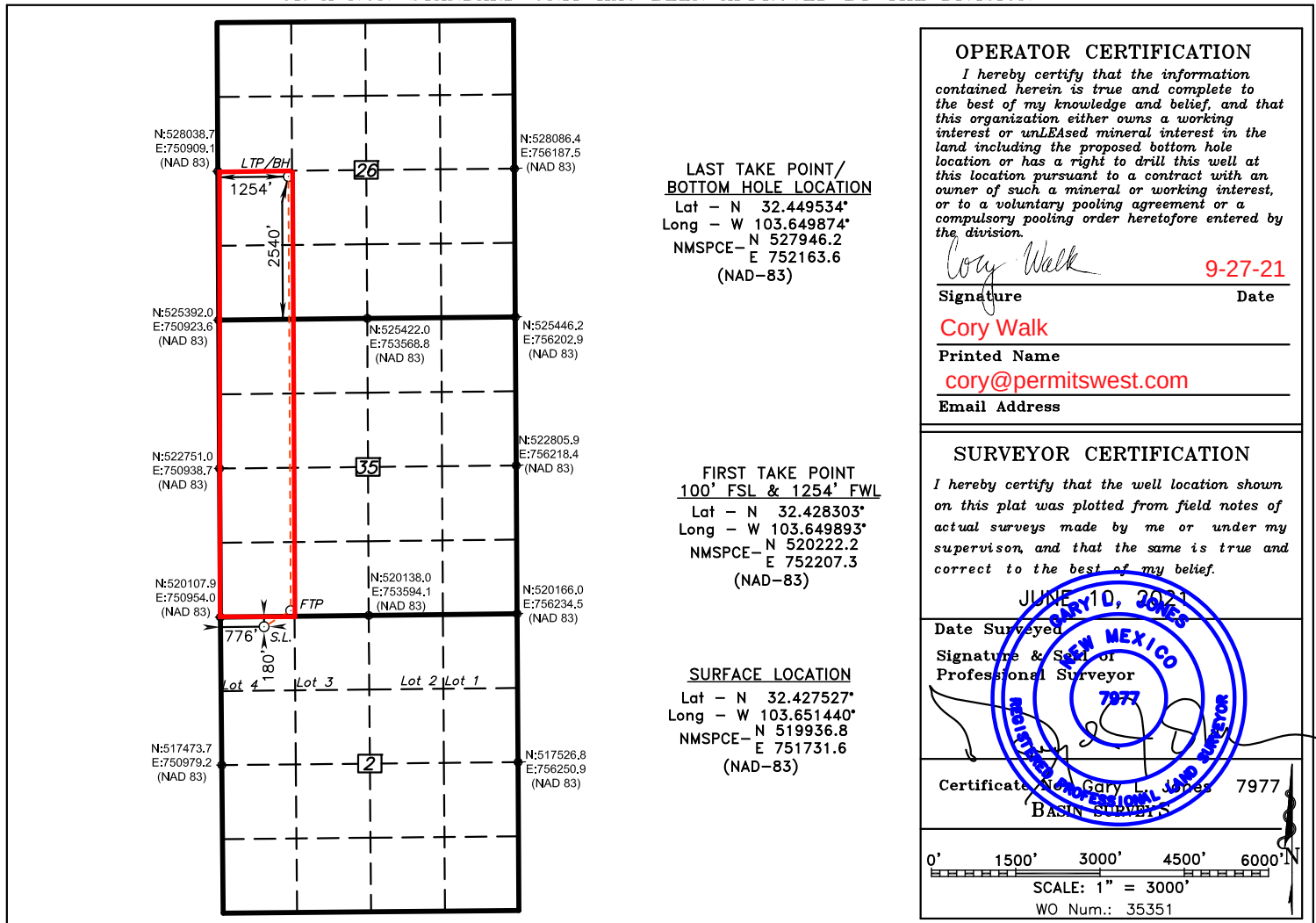
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	SOUTH/South line	Feet from the	East/West line	County
LOT 4	2	22 S	32 E		180	NORTH	776	WEST	LEA

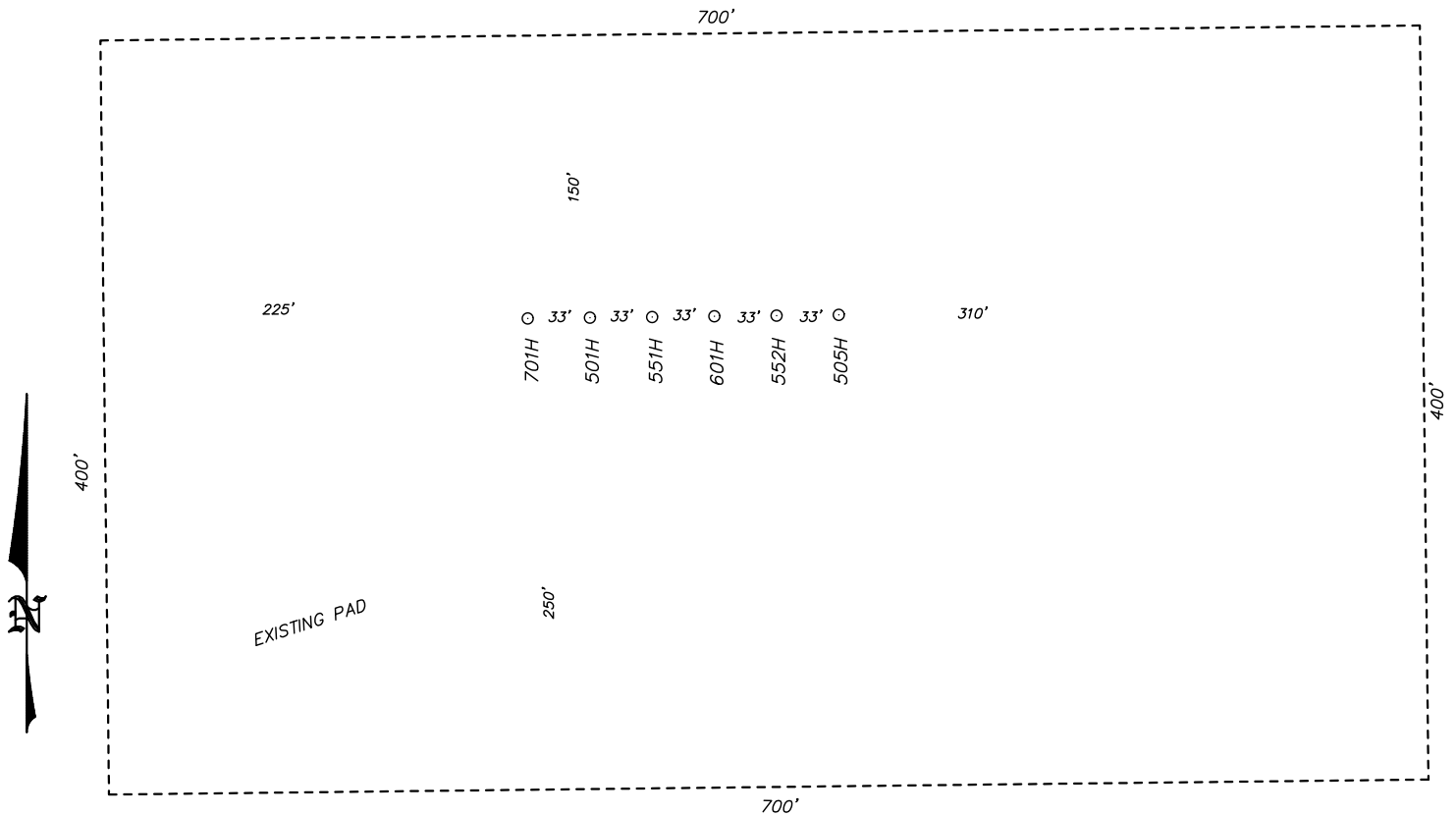
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	SOUTH/South line	Feet from the	East/West line	County
L	26	21 S	32 E		2540	SOUTH	1254	WEST	LEA
Dedicated Acres 240	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 505H / WELL PAD TOPO

THE ANDERSON FED COM 505H LOCATED 180' FROM
THE NORTH LINE AND 776' FROM THE WEST LINE OF
SECTION 2, TOWNSHIP 22 SOUTH, RANGE 32 EAST.

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

W.O. Number: 35351	Drawn By: K. GOAD	Date: 06-10-2021	Survey Date: 06-10-2021	Sheet 1 of 1 Sheets
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CHANGE TO PLANS

Move Surface Hole Location

From: 180' FNL & 611' FWL, Section 2, T-22-S, R-32-E, Lot 4

To: 180' FNL & 776' FWL, Section 2, T-22-S, R-32-E, Lot 4

Move First Take Point

From: 100' FSL & 330' FWL, Section 35, T-21-S, R-32-E, SWSW

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

Move Bottom Hole Location

From: 2540' FSL & 330' FWL, Section 26, T-21-S, R-32-E, NWSW

To: 2540' FSL & 1254' FWL, Section 26, T-21-S, R-32-E, NWSW

Target Formation

From: 2nd Bone Spring sandstone

To: 1st Bone Spring sandstone

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

Advance Energy Partners Hat Mesa, LLC
 Anderson Fed Com 505H
 SHL 180' FNL & 776' FWL Section 2, T22S, R32E
 BHL 2540' FSL & 1254' 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 @ 1252')	1227'	1227'	N/A
Salado salt	1425'	1425'	Salt
Tansil limestone (intermediate csg set @ TVD 4754')	3321'	3321'	N/A
Bell Canyon sandstone	4804'	4804'	hydrocarbons
Lower Brushy Canyon sandstone	8451'	8477'	hydrocarbons
Bone Spring Lime	8778'	8788'	hydrocarbons
Avalon shale	8971'	9001'	Hydrocarbons
KOP	9723'	9754'	hydrocarbons
1 st Bone Spring sandstone	9838'	9870'	hydrocarbons
TD	10200'	18226'	hydrocarbons

2. NOTABLE ZONES

Bone Spring sand is the goal. Closest water well (CP 01701 POD 1) is 0.41 miles north. Depth to water was reported at 560' in the 840' deep well.

3. PRESSURE CONTROL

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

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

Advance Energy Partners Hat Mesa, LLC
 Anderson Fed Com 505H
 SHL 180' FNL & 776' FWL Section 2, T22S, R32E
 BHL 2540' FSL & 1254' 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	1252	0	1252	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	4754	4000	4754	HCL-80	40	LTC	1.125	1.125	1.6
Production	8.75"	5.5"	No	0	18226	0	10200	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 505H
 SHL 180' FNL & 776' FWL Section 2, T22S, R32E
 BHL 2540' FSL & 1254' 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	525	1.9	998	12.8	50%	B Poz + C	6% Gel + 5% SALT + 0.25PPS Pol-E-Flake + 0.005GPS NoFoam V1A
	Tail	952	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	706%	B Poz + C	2% Gel + 5% SALT + 0.15% R1300 + 0.25PPS Pol-E-Flake + 0.005GPS NoFoam V1A
	Tail	3802	275	1.37	377	14.8	20%	C	5% SALT + 0.005GPS NoFoam V1A
1st Intermediate (stage 2)	Lead	0	455	3	1365	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	925	3.39	3136	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	9754	2120	1.22	2586	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	1252	FW Spud Mud	8.4 - 10.0	28 - 36	NC
Intermediate 1	1252	4754	Brine Water	10.0 - 10.5	28 - 32	NC
Production	4754	9754	Cut Brine	9.2 - 9.5	28 - 30	NC
Production	9754	18226	OBM	9.5 - 9.8	55 - 65	6 - 8

Advance Energy Partners Hat Mesa, LLC
Anderson Fed Com 505H
SHL 180' FNL & 776' FWL Section 2, T22S, R32E
BHL 2540' FSL & 1254' 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 $\approx 218^{\circ}$ 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 505H**

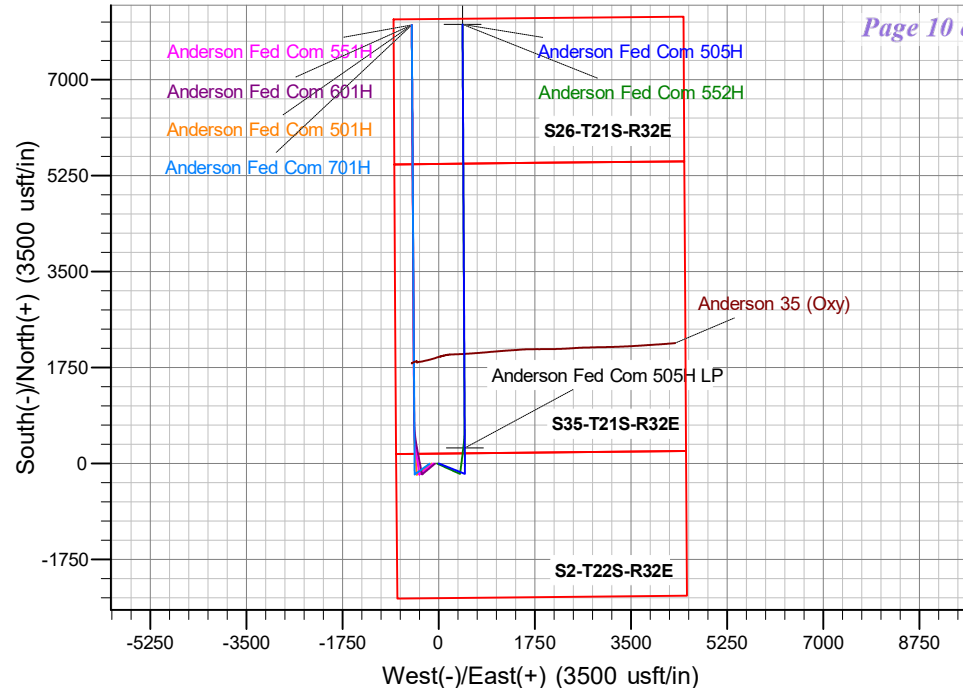
Ground Elev: 3685.0 KB: 3723.5

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	519936.83	751731.72	32° 25' 39.097 N	103° 39' 5.184 W

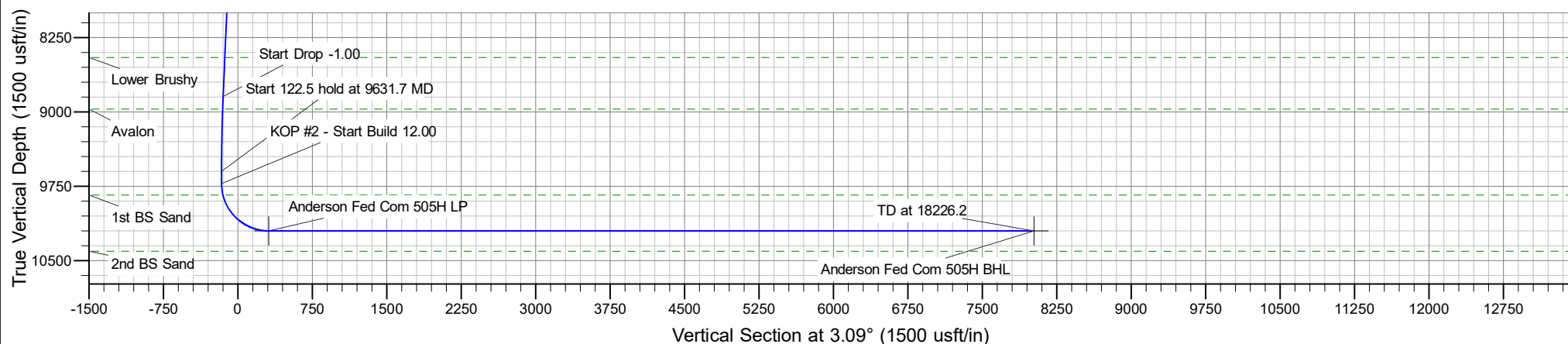
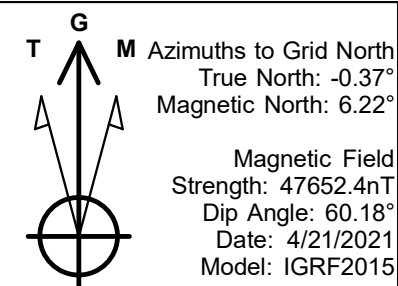
PROJECT DETAILS: Hat Mesa

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	5758.9	7.59	111.80	5756.6	-18.6	46.6	1.00	111.80	-16.1	Start 3114.0 hold at 5758.9 MD
4	8872.8	7.59	111.80	8843.4	-171.4	428.4	0.00	0.00	-148.0	Start Drop -1.00
5	9631.7	0.00	0.00	9600.0	-190.0	475.0	1.00	180.00	-164.1	Start 122.5 hold at 9631.7 MD
6	9754.2	0.00	0.00	9722.5	-190.0	475.0	0.00	0.00	-164.1	KOP #2 - Start Build 12.00
7	10504.2	90.00	359.70	10200.0	287.5	472.5	12.00	359.70	312.5	LP - Start 7722.0 hold at 10504.2 MD
8	18226.2	90.00	359.70	10200.0	8009.3	432.0	0.00	0.00	8021.0	TD at 18226.2





Advance Energy Partners

Hat Mesa

Anderson Fed Com - Pad D

Anderson Fed Com 505H

Anderson Fed Com 505H

Plan: Anderson Fed Com 505H - Prelim 1

Standard Planning Report

19 August, 2021



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Anderson Fed Com 505H
Company:	Advance Energy Partners	TVD Reference:	WELL @ 3717.5usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3717.5usft (Original Well Elev)
Site:	Anderson Fed Com - Pad D	North Reference:	Grid
Well:	Anderson Fed Com 505H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 505H		
Design:	Anderson Fed Com 505H - Prelim 1		

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

Site	Anderson Fed Com - Pad D				
Site Position:		Northing:	519,935.48 usft	Latitude:	32° 25' 39.090 N
From:	Lat/Long	Easting:	751,632.67 usft	Longitude:	103° 39' 6.340 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "		

Well	Anderson Fed Com 505H					
Well Position	+N/-S	0.0 usft	Northing:	519,936.84 usft	Latitude:	32° 25' 39.097 N
	+E/-W	0.0 usft	Easting:	751,731.71 usft	Longitude:	103° 39' 5.184 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,685.0 usft
Grid Convergence:	0.37 °					

Wellbore	Anderson Fed Com 505H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	4/21/2021	6.59	60.18	47,652.39850917

Design	Anderson Fed Com 505H - Prelim 1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	3.09

Plan Survey Tool Program	Date	8/19/2021		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	18,226.2	Anderson Fed Com 505H - 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	
5,758.9	7.59	111.80	5,756.6	-18.6	46.6	1.00	1.00	0.00	111.80	
8,872.8	7.59	111.80	8,843.4	-171.4	428.4	0.00	0.00	0.00	0.00	
9,631.7	0.00	0.00	9,600.0	-190.0	475.0	1.00	-1.00	0.00	180.00	
9,754.2	0.00	0.00	9,722.5	-190.0	475.0	0.00	0.00	0.00	0.00	
10,504.2	90.00	359.70	10,200.0	287.5	472.5	12.00	12.00	0.00	359.70	
18,226.2	90.00	359.70	10,200.0	8,009.3	432.0	0.00	0.00	0.00	0.00	Anderson Fed Com 505H



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Anderson Fed Com 505H
Company:	Advance Energy Partners	TVD Reference:	WELL @ 3717.5usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3717.5usft (Original Well Elev)
Site:	Anderson Fed Com - Pad D	North Reference:	Grid
Well:	Anderson Fed Com 505H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 505H		
Design:	Anderson Fed Com 505H - Prelim 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,226.5	0.00	0.00	1,226.5	0.0	0.0	0.0	0.00	0.00	0.00
Rustler									
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,803.5	0.00	0.00	4,803.5	0.0	0.0	0.0	0.00	0.00	0.00
Base of Limestone									



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Anderson Fed Com 505H
Company:	Advance Energy Partners	TVD Reference:	WELL @ 3717.5usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3717.5usft (Original Well Elev)
Site:	Anderson Fed Com - Pad D	North Reference:	Grid
Well:	Anderson Fed Com 505H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 505H		
Design:	Anderson Fed Com 505H - Prelim 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP - Start Build 1.00									
5,100.0	1.00	111.80	5,100.0	-0.3	0.8	-0.3	1.00	1.00	0.00
5,200.0	2.00	111.80	5,200.0	-1.3	3.2	-1.1	1.00	1.00	0.00
5,300.0	3.00	111.80	5,299.9	-2.9	7.3	-2.5	1.00	1.00	0.00
5,400.0	4.00	111.80	5,399.7	-5.2	13.0	-4.5	1.00	1.00	0.00
5,500.0	5.00	111.80	5,499.4	-8.1	20.2	-7.0	1.00	1.00	0.00
5,600.0	6.00	111.80	5,598.9	-11.7	29.1	-10.1	1.00	1.00	0.00
5,700.0	7.00	111.80	5,698.3	-15.9	39.7	-13.7	1.00	1.00	0.00
5,758.9	7.59	111.80	5,756.6	-18.6	46.6	-16.1	1.00	1.00	0.00
Start 3114.0 hold at 5758.9 MD									
5,800.0	7.59	111.80	5,797.4	-20.7	51.6	-17.8	0.00	0.00	0.00
5,900.0	7.59	111.80	5,896.5	-25.6	63.9	-22.1	0.00	0.00	0.00
6,000.0	7.59	111.80	5,995.7	-30.5	76.2	-26.3	0.00	0.00	0.00
6,100.0	7.59	111.80	6,094.8	-35.4	88.4	-30.6	0.00	0.00	0.00
6,200.0	7.59	111.80	6,193.9	-40.3	100.7	-34.8	0.00	0.00	0.00
6,300.0	7.59	111.80	6,293.0	-45.2	112.9	-39.0	0.00	0.00	0.00
6,400.0	7.59	111.80	6,392.2	-50.1	125.2	-43.3	0.00	0.00	0.00
6,500.0	7.59	111.80	6,491.3	-55.0	137.5	-47.5	0.00	0.00	0.00
6,600.0	7.59	111.80	6,590.4	-59.9	149.7	-51.7	0.00	0.00	0.00
6,700.0	7.59	111.80	6,689.5	-64.8	162.0	-56.0	0.00	0.00	0.00
6,800.0	7.59	111.80	6,788.7	-69.7	174.2	-60.2	0.00	0.00	0.00
6,900.0	7.59	111.80	6,887.8	-74.6	186.5	-64.5	0.00	0.00	0.00
7,000.0	7.59	111.80	6,986.9	-79.5	198.8	-68.7	0.00	0.00	0.00
7,100.0	7.59	111.80	7,086.0	-84.4	211.0	-72.9	0.00	0.00	0.00
7,200.0	7.59	111.80	7,185.2	-89.3	223.3	-77.2	0.00	0.00	0.00
7,300.0	7.59	111.80	7,284.3	-94.2	235.6	-81.4	0.00	0.00	0.00
7,400.0	7.59	111.80	7,383.4	-99.1	247.8	-85.6	0.00	0.00	0.00
7,500.0	7.59	111.80	7,482.5	-104.0	260.1	-89.9	0.00	0.00	0.00
7,600.0	7.59	111.80	7,581.7	-108.9	272.3	-94.1	0.00	0.00	0.00
7,700.0	7.59	111.80	7,680.8	-113.8	284.6	-98.3	0.00	0.00	0.00
7,800.0	7.59	111.80	7,779.9	-118.7	296.9	-102.6	0.00	0.00	0.00
7,900.0	7.59	111.80	7,879.0	-123.6	309.1	-106.8	0.00	0.00	0.00
8,000.0	7.59	111.80	7,978.2	-128.6	321.4	-111.1	0.00	0.00	0.00
8,100.0	7.59	111.80	8,077.3	-133.5	333.6	-115.3	0.00	0.00	0.00
8,200.0	7.59	111.80	8,176.4	-138.4	345.9	-119.5	0.00	0.00	0.00
8,300.0	7.59	111.80	8,275.5	-143.3	358.2	-123.8	0.00	0.00	0.00
8,400.0	7.59	111.80	8,374.7	-148.2	370.4	-128.0	0.00	0.00	0.00
8,476.5	7.59	111.80	8,450.5	-151.9	379.8	-131.3	0.00	0.00	0.00
Lower Brushy									
8,500.0	7.59	111.80	8,473.8	-153.1	382.7	-132.2	0.00	0.00	0.00
8,600.0	7.59	111.80	8,572.9	-158.0	395.0	-136.5	0.00	0.00	0.00
8,700.0	7.59	111.80	8,672.0	-162.9	407.2	-140.7	0.00	0.00	0.00
8,800.0	7.59	111.80	8,771.1	-167.8	419.5	-145.0	0.00	0.00	0.00
8,872.8	7.59	111.80	8,843.4	-171.4	428.4	-148.0	0.00	0.00	0.00
Start Drop -1.00									
8,900.0	7.32	111.80	8,870.3	-172.7	431.7	-149.2	1.00	-1.00	0.00
9,000.0	6.32	111.80	8,969.6	-177.1	442.7	-153.0	1.00	-1.00	0.00
9,000.9	6.31	111.80	8,970.5	-177.1	442.8	-153.0	1.00	-1.00	0.00
Avalon									
9,100.0	5.32	111.80	9,069.1	-180.8	452.1	-156.2	1.00	-1.00	0.00
9,200.0	4.32	111.80	9,168.7	-184.0	459.9	-158.9	1.00	-1.00	0.00
9,300.0	3.32	111.80	9,268.5	-186.4	466.1	-161.1	1.00	-1.00	0.00



Planning Report

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Company:	Advance Energy Partners	TVD Reference:	WELL @ 3717.5usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3717.5usft (Original Well Elev)
Site:	Anderson Fed Com - Pad D	North Reference:	Grid
Well:	Anderson Fed Com 505H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 505H		
Design:	Anderson Fed Com 505H - Prelim 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,400.0	2.32	111.80	9,368.4	-188.3	470.7	-162.6	1.00	-1.00	0.00
9,500.0	1.32	111.80	9,468.3	-189.4	473.6	-163.7	1.00	-1.00	0.00
9,600.0	0.32	111.80	9,568.3	-190.0	474.9	-164.1	1.00	-1.00	0.00
9,631.7	0.00	0.00	9,600.0	-190.0	475.0	-164.1	1.00	-1.00	-352.62
Start 122.5 hold at 9631.7 MD									
9,700.0	0.00	0.00	9,668.3	-190.0	475.0	-164.1	0.00	0.00	0.00
9,754.2	0.00	0.00	9,722.5	-190.0	475.0	-164.1	0.00	0.00	0.00
KOP #2 - Start Build 12.00									
9,800.0	5.49	359.70	9,768.2	-187.8	475.0	-162.0	12.00	12.00	0.00
9,870.3	13.93	359.70	9,837.5	-176.0	474.9	-150.1	12.00	12.00	0.00
1st BS Sand									
9,900.0	17.49	359.70	9,866.0	-167.9	474.9	-142.1	12.00	12.00	0.00
10,000.0	29.49	359.70	9,957.6	-128.1	474.7	-102.4	12.00	12.00	0.00
10,100.0	41.49	359.70	10,038.9	-70.2	474.4	-44.5	12.00	12.00	0.00
10,200.0	53.49	359.70	10,106.3	3.4	474.0	28.9	12.00	12.00	0.00
10,300.0	65.49	359.70	10,157.0	89.4	473.5	114.8	12.00	12.00	0.00
10,400.0	77.49	359.70	10,188.7	184.0	473.0	209.3	12.00	12.00	0.00
10,500.0	89.49	359.70	10,200.0	283.2	472.5	308.3	12.00	12.00	0.00
10,502.1	89.75	359.70	10,200.0	285.3	472.5	310.4	12.00	12.00	0.00
Anderson Fed Com 505H LP									
10,504.2	90.00	359.70	10,200.0	287.5	472.5	312.5	12.00	12.00	0.00
LP - Start 7722.0 hold at 10504.2 MD									
10,600.0	90.00	359.70	10,200.0	383.2	472.0	408.1	0.00	0.00	0.00
10,700.0	90.00	359.70	10,200.0	483.2	471.5	507.9	0.00	0.00	0.00
10,800.0	90.00	359.70	10,200.0	583.2	470.9	607.7	0.00	0.00	0.00
10,900.0	90.00	359.70	10,200.0	683.2	470.4	707.6	0.00	0.00	0.00
11,000.0	90.00	359.70	10,200.0	783.2	469.9	807.4	0.00	0.00	0.00
11,100.0	90.00	359.70	10,200.0	883.2	469.4	907.2	0.00	0.00	0.00
11,200.0	90.00	359.70	10,200.0	983.2	468.8	1,007.0	0.00	0.00	0.00
11,300.0	90.00	359.70	10,200.0	1,083.2	468.3	1,106.9	0.00	0.00	0.00
11,400.0	90.00	359.70	10,200.0	1,183.2	467.8	1,206.7	0.00	0.00	0.00
11,500.0	90.00	359.70	10,200.0	1,283.2	467.3	1,306.5	0.00	0.00	0.00
11,600.0	90.00	359.70	10,200.0	1,383.2	466.7	1,406.3	0.00	0.00	0.00
11,700.0	90.00	359.70	10,200.0	1,483.2	466.2	1,506.2	0.00	0.00	0.00
11,800.0	90.00	359.70	10,200.0	1,583.2	465.7	1,606.0	0.00	0.00	0.00
11,900.0	90.00	359.70	10,200.0	1,683.2	465.2	1,705.8	0.00	0.00	0.00
12,000.0	90.00	359.70	10,200.0	1,783.2	464.6	1,805.6	0.00	0.00	0.00
12,100.0	90.00	359.70	10,200.0	1,883.2	464.1	1,905.5	0.00	0.00	0.00
12,200.0	90.00	359.70	10,200.0	1,983.2	463.6	2,005.3	0.00	0.00	0.00
12,300.0	90.00	359.70	10,200.0	2,083.2	463.1	2,105.1	0.00	0.00	0.00
12,400.0	90.00	359.70	10,200.0	2,183.2	462.5	2,204.9	0.00	0.00	0.00
12,500.0	90.00	359.70	10,200.0	2,283.2	462.0	2,304.8	0.00	0.00	0.00
12,600.0	90.00	359.70	10,200.0	2,383.2	461.5	2,404.6	0.00	0.00	0.00
12,700.0	90.00	359.70	10,200.0	2,483.2	461.0	2,504.4	0.00	0.00	0.00
12,800.0	90.00	359.70	10,200.0	2,583.2	460.4	2,604.2	0.00	0.00	0.00
12,900.0	90.00	359.70	10,200.0	2,683.2	459.9	2,704.1	0.00	0.00	0.00
13,000.0	90.00	359.70	10,200.0	2,783.2	459.4	2,803.9	0.00	0.00	0.00
13,100.0	90.00	359.70	10,200.0	2,883.2	458.9	2,903.7	0.00	0.00	0.00
13,200.0	90.00	359.70	10,200.0	2,983.2	458.3	3,003.5	0.00	0.00	0.00
13,300.0	90.00	359.70	10,200.0	3,083.2	457.8	3,103.4	0.00	0.00	0.00
13,400.0	90.00	359.70	10,200.0	3,183.2	457.3	3,203.2	0.00	0.00	0.00
13,500.0	90.00	359.70	10,200.0	3,283.2	456.8	3,303.0	0.00	0.00	0.00
13,600.0	90.00	359.70	10,200.0	3,383.2	456.2	3,402.8	0.00	0.00	0.00



Planning Report

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Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
13,700.0	90.00	359.70	10,200.0	3,483.2	455.7	3,502.7	0.00	0.00	0.00	
13,800.0	90.00	359.70	10,200.0	3,583.2	455.2	3,602.5	0.00	0.00	0.00	
13,900.0	90.00	359.70	10,200.0	3,683.2	454.7	3,702.3	0.00	0.00	0.00	
14,000.0	90.00	359.70	10,200.0	3,783.2	454.1	3,802.1	0.00	0.00	0.00	
14,100.0	90.00	359.70	10,200.0	3,883.2	453.6	3,902.0	0.00	0.00	0.00	
14,200.0	90.00	359.70	10,200.0	3,983.2	453.1	4,001.8	0.00	0.00	0.00	
14,300.0	90.00	359.70	10,200.0	4,083.2	452.6	4,101.6	0.00	0.00	0.00	
14,400.0	90.00	359.70	10,200.0	4,183.2	452.0	4,201.4	0.00	0.00	0.00	
14,500.0	90.00	359.70	10,200.0	4,283.2	451.5	4,301.3	0.00	0.00	0.00	
14,600.0	90.00	359.70	10,200.0	4,383.2	451.0	4,401.1	0.00	0.00	0.00	
14,700.0	90.00	359.70	10,200.0	4,483.2	450.5	4,500.9	0.00	0.00	0.00	
14,800.0	90.00	359.70	10,200.0	4,583.2	449.9	4,600.7	0.00	0.00	0.00	
14,900.0	90.00	359.70	10,200.0	4,683.2	449.4	4,700.6	0.00	0.00	0.00	
15,000.0	90.00	359.70	10,200.0	4,783.2	448.9	4,800.4	0.00	0.00	0.00	
15,100.0	90.00	359.70	10,200.0	4,883.2	448.4	4,900.2	0.00	0.00	0.00	
15,200.0	90.00	359.70	10,200.0	4,983.2	447.8	5,000.0	0.00	0.00	0.00	
15,300.0	90.00	359.70	10,200.0	5,083.2	447.3	5,099.9	0.00	0.00	0.00	
15,400.0	90.00	359.70	10,200.0	5,183.1	446.8	5,199.7	0.00	0.00	0.00	
15,500.0	90.00	359.70	10,200.0	5,283.1	446.3	5,299.5	0.00	0.00	0.00	
15,600.0	90.00	359.70	10,200.0	5,383.1	445.7	5,399.3	0.00	0.00	0.00	
15,700.0	90.00	359.70	10,200.0	5,483.1	445.2	5,499.2	0.00	0.00	0.00	
15,800.0	90.00	359.70	10,200.0	5,583.1	444.7	5,599.0	0.00	0.00	0.00	
15,900.0	90.00	359.70	10,200.0	5,683.1	444.2	5,698.8	0.00	0.00	0.00	
16,000.0	90.00	359.70	10,200.0	5,783.1	443.6	5,798.6	0.00	0.00	0.00	
16,100.0	90.00	359.70	10,200.0	5,883.1	443.1	5,898.5	0.00	0.00	0.00	
16,200.0	90.00	359.70	10,200.0	5,983.1	442.6	5,998.3	0.00	0.00	0.00	
16,300.0	90.00	359.70	10,200.0	6,083.1	442.1	6,098.1	0.00	0.00	0.00	
16,400.0	90.00	359.70	10,200.0	6,183.1	441.5	6,197.9	0.00	0.00	0.00	
16,500.0	90.00	359.70	10,200.0	6,283.1	441.0	6,297.8	0.00	0.00	0.00	
16,600.0	90.00	359.70	10,200.0	6,383.1	440.5	6,397.6	0.00	0.00	0.00	
16,700.0	90.00	359.70	10,200.0	6,483.1	440.0	6,497.4	0.00	0.00	0.00	
16,800.0	90.00	359.70	10,200.0	6,583.1	439.4	6,597.2	0.00	0.00	0.00	
16,900.0	90.00	359.70	10,200.0	6,683.1	438.9	6,697.1	0.00	0.00	0.00	
17,000.0	90.00	359.70	10,200.0	6,783.1	438.4	6,796.9	0.00	0.00	0.00	
17,100.0	90.00	359.70	10,200.0	6,883.1	437.9	6,896.7	0.00	0.00	0.00	
17,200.0	90.00	359.70	10,200.0	6,983.1	437.3	6,996.5	0.00	0.00	0.00	
17,300.0	90.00	359.70	10,200.0	7,083.1	436.8	7,096.4	0.00	0.00	0.00	
17,400.0	90.00	359.70	10,200.0	7,183.1	436.3	7,196.2	0.00	0.00	0.00	
17,500.0	90.00	359.70	10,200.0	7,283.1	435.8	7,296.0	0.00	0.00	0.00	
17,600.0	90.00	359.70	10,200.0	7,383.1	435.2	7,395.8	0.00	0.00	0.00	
17,700.0	90.00	359.70	10,200.0	7,483.1	434.7	7,495.7	0.00	0.00	0.00	
17,800.0	90.00	359.70	10,200.0	7,583.1	434.2	7,595.5	0.00	0.00	0.00	
17,900.0	90.00	359.70	10,200.0	7,683.1	433.7	7,695.3	0.00	0.00	0.00	
18,000.0	90.00	359.70	10,200.0	7,783.1	433.1	7,795.1	0.00	0.00	0.00	
18,100.0	90.00	359.70	10,200.0	7,883.1	432.6	7,895.0	0.00	0.00	0.00	
18,200.0	90.00	359.70	10,200.0	7,983.1	432.1	7,994.8	0.00	0.00	0.00	
18,226.2	90.00	359.70	10,200.0	8,009.3	432.0	8,021.0	0.00	0.00	0.00	
TD at 18226.2 - Anderson Fed Com 505H BHL										



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Anderson Fed Com 505H
Company:	Advance Energy Partners	TVD Reference:	WELL @ 3717.5usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3717.5usft (Original Well Elev)
Site:	Anderson Fed Com - Pad D	North Reference:	Grid
Well:	Anderson Fed Com 505H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 505H		
Design:	Anderson Fed Com 505H - Prelim 1		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
Anderson Fed Com 505H - plan hits target center - Point	0.00	0.01	10,200.0	8,009.3	432.0	527,946.17	752,163.67	32° 26' 58.322 N	103° 38' 59.546 W
Anderson Fed Com 505H - plan misses target center by 3.0usft at 10502.1usft MD (10200.0 TVD, 285.3 N, 472.5 E) - Point	0.00	0.00	10,200.0	285.4	475.5	520,222.20	752,207.24	32° 25' 41.891 N	103° 38' 59.615 W

Casing Points					
Measured Depth	Vertical Depth			Casing Diameter	Hole Diameter
(usft)	(usft)		Name	(")	(")
10,502.1	10,200.0	5 1/2"		5-1/2	5-1/2

Formations					
Measured Depth	Vertical Depth			Dip	Dip Direction
(usft)	(usft)		Name	(°)	(°)
1,226.5	1,226.5		Rustler	0.00	
4,803.5	4,803.5		Base of Limestone	0.00	
8,476.5	8,450.5		Lower Brushy	0.00	
9,000.9	8,970.5		Avalon	0.00	
9,870.3	9,837.5		1st BS Sand	0.00	

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates			
(usft)	(usft)	+N/-S	+E/-W	Comment	
(usft)	(usft)	(usft)	(usft)		
5,000.0	5,000.0	0.0	0.0	KOP - Start Build 1.00	
5,758.9	5,756.6	-18.6	46.6	Start 3114.0 hold at 5758.9 MD	
8,872.8	8,843.4	-171.4	428.4	Start Drop -1.00	
9,631.7	9,600.0	-190.0	475.0	Start 122.5 hold at 9631.7 MD	
9,754.2	9,722.5	-190.0	475.0	KOP #2 - Start Build 12.00	
10,504.2	10,200.0	287.5	472.5	LP - Start 7722.0 hold at 10504.2 MD	
18,226.2	10,200.0	8,009.3	432.0	TD at 18226.2	



Advance Energy Partners

Hat Mesa

Anderson Fed Com - Pad D

Anderson Fed Com 505H

Anderson Fed Com 505H

Anderson Fed Com 505H - Prelim 1

Anticollision Report

19 August, 2021



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 505H
Project:	Hat Mesa	TVD Reference:	WELL @ 3717.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3717.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 505H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 505H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 505H - Prelim 1	Offset TVD Reference:	Offset Datum

Reference	Anderson Fed Com 505H - Prelim 1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 1,000.0usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.79 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	8/19/2021			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	18,226.2	Anderson Fed Com 505H - Prelim 1 (Ande	MWD+HRGM	OWSG MWD + HRGM	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Anderson Fed Com - Pad A						
Anderson 35 (Oxy) - Anderson 35 - Anderson 35	12,200.0	11,220.5	507.1	437.0	7.233 SF	
Anderson 35 (Oxy) - Anderson 35 - Anderson 35	12,214.2	11,221.4	506.9	436.9	7.244 CC, ES	
Anderson Fed Com - Pad D						
Anderson Fed Com 501H - Anderson Fed Com 501H - A	5,000.0	5,007.0	132.1	105.9	5.053 CC, ES	
Anderson Fed Com 501H - Anderson Fed Com 501H - A	18,226.2	18,484.9	962.3	640.8	2.993 SF	
Anderson Fed Com 551H - Anderson Fed Com 551H - A	5,000.0	5,007.0	99.0	72.9	3.790 CC, ES	
Anderson Fed Com 551H - Anderson Fed Com 551H - A	5,100.0	5,107.0	99.9	73.5	3.783 SF	
Anderson Fed Com 552H - Anderson Fed Com 552H - A	5,321.6	5,328.3	32.9	6.1	1.227 Level 3, CC	
Anderson Fed Com 552H - Anderson Fed Com 552H - A	5,500.0	5,507.6	32.9	5.7	1.208 Level 3, ES, SF	
Anderson Fed Com 601H - Anderson Fed Com 601H - A	5,000.0	5,006.0	66.0	39.9	2.527 CC, ES, SF	
Anderson Fed Com 701H - Anderson Fed Com 701H - A	4,914.2	4,921.2	165.1	139.2	6.382 CC	
Anderson Fed Com 701H - Anderson Fed Com 701H - A	5,000.0	5,006.8	165.1	139.0	6.317 ES	
Anderson Fed Com 701H - Anderson Fed Com 701H - A	18,226.2	17,910.6	973.9	656.9	3.072 SF	

Offset Design:	Anderson Fed Com - Pad A - Anderson 35 (Oxy) - Anderson 35 - Anderson 35												Offset Site Error:	0.0 usft
Survey Program:	109-MWD+HRGM												Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:			Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
11,400.0	10,200.0	11,179.2	10,690.6	39.1	39.0	-173.38	1,995.0	405.0	958.2	893.8	64.38	14.882		
11,500.0	10,200.0	11,183.8	10,690.7	40.4	39.0	-173.90	1,995.3	409.5	875.0	809.6	65.40	13.379		
11,600.0	10,200.0	11,188.5	10,690.9	41.8	39.0	-174.42	1,995.5	414.2	795.7	729.2	66.51	11.963		
11,700.0	10,200.0	11,193.4	10,691.1	43.2	39.1	-174.97	1,995.8	419.0	721.5	653.9	67.68	10.660		
11,800.0	10,200.0	11,198.4	10,691.3	44.6	39.1	-175.54	1,996.1	424.1	654.2	585.4	68.85	9.503		
11,900.0	10,200.0	11,203.6	10,691.5	46.1	39.1	-176.13	1,996.3	429.3	596.1	526.3	69.87	8.532		
12,000.0	10,200.0	11,209.1	10,691.7	47.7	39.2	-176.74	1,996.6	434.7	550.2	479.6	70.55	7.798		
12,100.0	10,200.0	11,214.7	10,691.9	49.2	39.2	-177.38	1,997.0	440.3	519.6	448.9	70.67	7.352		
12,200.0	10,200.0	11,220.5	10,692.1	50.8	39.2	-178.04	1,997.3	446.2	507.1	437.0	70.11	7.233 SF		
12,214.2	10,200.0	11,221.4	10,692.1	51.0	39.2	-178.13	1,997.4	447.0	506.9	436.9	69.98	7.244 CC, ES		
12,300.0	10,200.0	11,226.6	10,692.3	52.4	39.3	-178.72	1,997.7	452.2	514.1	445.1	68.94	7.457		
12,400.0	10,200.0	11,232.9	10,692.5	54.1	39.3	-179.44	1,998.0	458.5	539.7	472.3	67.41	8.007		
12,500.0	10,200.0	11,239.5	10,692.7	55.8	39.4	179.82	1,998.4	465.1	581.6	515.8	65.80	8.839		
12,600.0	10,200.0	11,246.4	10,692.9	57.5	39.4	179.05	1,998.9	471.9	636.6	572.2	64.34	9.893		

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 505H
Project:	Hat Mesa	TVD Reference:	WELL @ 3717.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3717.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 505H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 505H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 505H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad A - Anderson 35 (Oxy) - Anderson 35 - Anderson 35												Offset Site Error: 0.0 usft	
Survey Program: 109-MWD+HRGM		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Offset Well Error: 0.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,700.0	10,200.0	11,253.5	10,693.1	59.2	39.5	178.24	1,999.3	479.1	701.5	638.3	63.14	11.109	
12,800.0	10,200.0	11,261.0	10,693.2	60.9	39.6	177.40	1,999.8	486.5	773.8	711.6	62.24	12.434	
12,900.0	10,200.0	11,268.8	10,693.4	62.7	39.7	176.53	2,000.3	494.3	851.7	790.1	61.61	13.826	
13,000.0	10,200.0	11,277.0	10,693.6	64.4	39.7	175.62	2,000.9	502.5	933.8	872.6	61.21	15.255	



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 505H
Project:	Hat Mesa	TVD Reference:	WELL @ 3717.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3717.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 505H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 505H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 505H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 501H - Anderson Fed Com 501H - Anderson Fed Com 501H - Prelim 1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	7.0	7.0	0.0	0.0	-90.68	-1.6	-132.1	132.1				
100.0	100.0	107.0	107.0	0.5	0.6	-90.68	-1.6	-132.1	132.1	130.9	1.14	115.540	
200.0	200.0	207.0	207.0	1.7	1.8	-90.68	-1.6	-132.1	132.1	128.6	3.47	38.031	
300.0	300.0	307.0	307.0	2.4	2.4	-90.68	-1.6	-132.1	132.1	127.2	4.86	27.169	
400.0	400.0	407.0	407.0	3.0	3.0	-90.68	-1.6	-132.1	132.1	126.1	5.94	22.232	
500.0	500.0	507.0	507.0	3.4	3.4	-90.68	-1.6	-132.1	132.1	125.2	6.86	19.255	
600.0	600.0	607.0	607.0	3.8	3.9	-90.68	-1.6	-132.1	132.1	124.4	7.67	17.208	
700.0	700.0	707.0	707.0	4.2	4.2	-90.68	-1.6	-132.1	132.1	123.6	8.42	15.688	
800.0	800.0	807.0	807.0	4.5	4.6	-90.68	-1.6	-132.1	132.1	123.0	9.11	14.502	
900.0	900.0	907.0	907.0	4.9	4.9	-90.68	-1.6	-132.1	132.1	122.3	9.75	13.543	
1,000.0	1,000.0	1,007.0	1,007.0	5.2	5.2	-90.68	-1.6	-132.1	132.1	121.7	10.36	12.745	
1,100.0	1,100.0	1,107.0	1,107.0	5.5	5.5	-90.68	-1.6	-132.1	132.1	121.1	10.94	12.069	
1,200.0	1,200.0	1,207.0	1,207.0	5.7	5.8	-90.68	-1.6	-132.1	132.1	120.6	11.50	11.485	
1,300.0	1,300.0	1,307.0	1,307.0	6.0	6.0	-90.68	-1.6	-132.1	132.1	120.0	12.03	10.975	
1,400.0	1,400.0	1,407.0	1,407.0	6.3	6.3	-90.68	-1.6	-132.1	132.1	119.5	12.55	10.524	
1,500.0	1,500.0	1,507.0	1,507.0	6.5	6.5	-90.68	-1.6	-132.1	132.1	119.0	13.05	10.121	
1,600.0	1,600.0	1,607.0	1,607.0	6.8	6.8	-90.68	-1.6	-132.1	132.1	118.5	13.53	9.758	
1,700.0	1,700.0	1,707.0	1,707.0	7.0	7.0	-90.68	-1.6	-132.1	132.1	118.1	14.01	9.430	
1,800.0	1,800.0	1,807.0	1,807.0	7.2	7.2	-90.68	-1.6	-132.1	132.1	117.6	14.47	9.130	
1,900.0	1,900.0	1,907.0	1,907.0	7.4	7.5	-90.68	-1.6	-132.1	132.1	117.1	14.91	8.855	
2,000.0	2,000.0	2,007.0	2,007.0	7.7	7.7	-90.68	-1.6	-132.1	132.1	116.7	15.35	8.601	
2,100.0	2,100.0	2,107.0	2,107.0	7.9	7.9	-90.68	-1.6	-132.1	132.1	116.3	15.78	8.366	
2,200.0	2,200.0	2,207.0	2,207.0	8.1	8.1	-90.68	-1.6	-132.1	132.1	115.9	16.21	8.148	
2,300.0	2,300.0	2,307.0	2,307.0	8.3	8.3	-90.68	-1.6	-132.1	132.1	115.4	16.62	7.945	
2,400.0	2,400.0	2,407.0	2,407.0	8.5	8.5	-90.68	-1.6	-132.1	132.1	115.0	17.03	7.755	
2,500.0	2,500.0	2,507.0	2,507.0	8.7	8.7	-90.68	-1.6	-132.1	132.1	114.6	17.43	7.576	
2,600.0	2,600.0	2,607.0	2,607.0	8.9	8.9	-90.68	-1.6	-132.1	132.1	114.2	17.83	7.409	
2,700.0	2,700.0	2,707.0	2,707.0	9.1	9.1	-90.68	-1.6	-132.1	132.1	113.8	18.22	7.250	
2,800.0	2,800.0	2,807.0	2,807.0	9.3	9.3	-90.68	-1.6	-132.1	132.1	113.5	18.60	7.101	
2,900.0	2,900.0	2,907.0	2,907.0	9.5	9.5	-90.68	-1.6	-132.1	132.1	113.1	18.98	6.959	
3,000.0	3,000.0	3,007.0	3,007.0	9.7	9.7	-90.68	-1.6	-132.1	132.1	112.7	19.35	6.824	
3,100.0	3,100.0	3,107.0	3,107.0	9.9	9.9	-90.68	-1.6	-132.1	132.1	112.3	19.72	6.696	
3,200.0	3,200.0	3,207.0	3,207.0	10.0	10.0	-90.68	-1.6	-132.1	132.1	112.0	20.09	6.575	
3,300.0	3,300.0	3,307.0	3,307.0	10.2	10.2	-90.68	-1.6	-132.1	132.1	111.6	20.45	6.458	
3,400.0	3,400.0	3,407.0	3,407.0	10.4	10.4	-90.68	-1.6	-132.1	132.1	111.3	20.81	6.347	
3,500.0	3,500.0	3,507.0	3,507.0	10.6	10.6	-90.68	-1.6	-132.1	132.1	110.9	21.16	6.241	
3,600.0	3,600.0	3,607.0	3,607.0	10.7	10.8	-90.68	-1.6	-132.1	132.1	110.6	21.51	6.139	
3,700.0	3,700.0	3,707.0	3,707.0	10.9	10.9	-90.68	-1.6	-132.1	132.1	110.2	21.86	6.042	
3,800.0	3,800.0	3,807.0	3,807.0	11.1	11.1	-90.68	-1.6	-132.1	132.1	109.9	22.20	5.948	
3,900.0	3,900.0	3,907.0	3,907.0	11.3	11.3	-90.68	-1.6	-132.1	132.1	109.5	22.54	5.858	
4,000.0	4,000.0	4,007.0	4,007.0	11.4	11.4	-90.68	-1.6	-132.1	132.1	109.2	22.88	5.771	
4,100.0	4,100.0	4,107.0	4,107.0	11.6	11.6	-90.68	-1.6	-132.1	132.1	108.8	23.22	5.688	
4,200.0	4,200.0	4,207.0	4,207.0	11.8	11.8	-90.68	-1.6	-132.1	132.1	108.5	23.55	5.607	
4,300.0	4,300.0	4,307.0	4,307.0	11.9	11.9	-90.68	-1.6	-132.1	132.1	108.2	23.88	5.530	
4,400.0	4,400.0	4,407.0	4,407.0	12.1	12.1	-90.68	-1.6	-132.1	132.1	107.9	24.21	5.455	
4,500.0	4,500.0	4,507.0	4,507.0	12.3	12.3	-90.68	-1.6	-132.1	132.1	107.5	24.54	5.382	
4,600.0	4,600.0	4,607.0	4,607.0	12.4	12.4	-90.68	-1.6	-132.1	132.1	107.2	24.86	5.312	
4,700.0	4,700.0	4,707.0	4,707.0	12.6	12.6	-90.68	-1.6	-132.1	132.1	106.9	25.18	5.244	
4,800.0	4,800.0	4,807.0	4,807.0	12.7	12.8	-90.68	-1.6	-132.1	132.1	106.6	25.50	5.179	
4,900.0	4,900.0	4,907.0	4,907.0	12.9	12.9	-90.68	-1.6	-132.1	132.1	106.2	25.82	5.115	
5,000.0	5,000.0	5,007.0	5,007.0	13.1	13.1	-90.68	-1.6	-132.1	132.1	105.9	26.14	5.053 CC, ES	
5,100.0	5,100.0	5,107.0	5,107.0	13.2	13.2	157.66	-1.6	-132.1	132.9	106.5	26.40	5.033	

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 505H
Project:	Hat Mesa	TVD Reference:	WELL @ 3717.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3717.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 505H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 505H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 505H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 501H - Anderson Fed Com 501H - Anderson Fed Com 501H - Prelim 1													Offset Site Error: 0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.0	5,200.0	5,206.8	5,206.8	13.3	13.4	158.07	-1.6	-132.1	135.3	108.6	26.65	5.077	
5,300.0	5,299.9	5,304.8	5,304.8	13.4	13.5	158.47	-2.1	-132.8	140.1	113.3	26.86	5.218	
5,400.0	5,399.7	5,402.6	5,402.5	13.5	13.6	158.68	-3.7	-134.9	147.9	120.9	27.06	5.467	
5,500.0	5,499.4	5,500.0	5,499.9	13.7	13.7	158.71	-6.3	-138.3	158.7	131.4	27.30	5.815	
5,600.0	5,598.9	5,596.7	5,596.4	13.9	13.8	158.60	-9.8	-143.1	172.5	144.9	27.56	6.258	
5,700.0	5,698.3	5,694.0	5,693.4	14.1	13.9	158.40	-14.2	-149.0	189.0	161.2	27.81	6.797	
5,758.9	5,756.6	5,751.9	5,751.2	14.2	13.9	158.35	-16.9	-152.6	199.6	171.6	27.97	7.137	
5,800.0	5,797.4	5,792.4	5,791.5	14.2	14.0	158.36	-18.8	-155.2	207.2	179.1	28.08	7.379	
5,900.0	5,896.5	5,890.6	5,889.4	14.5	14.2	158.40	-23.4	-161.3	225.7	197.2	28.44	7.936	
6,000.0	5,995.7	5,988.9	5,987.4	14.7	14.4	158.42	-28.0	-167.5	244.2	215.3	28.84	8.466	
6,100.0	6,094.8	6,087.2	6,085.4	15.0	14.6	158.45	-32.6	-173.7	262.6	233.4	29.27	8.973	
6,200.0	6,193.9	6,185.5	6,183.4	15.3	14.8	158.47	-37.3	-179.9	281.1	251.4	29.73	9.456	
6,300.0	6,293.0	6,283.8	6,281.3	15.7	15.0	158.49	-41.9	-186.1	299.6	269.4	30.21	9.917	
6,400.0	6,392.2	6,382.0	6,379.3	16.0	15.3	158.50	-46.5	-192.2	318.1	287.4	30.72	10.354	
6,500.0	6,491.3	6,480.3	6,477.3	16.4	15.5	158.52	-51.1	-198.4	336.6	305.3	31.25	10.769	
6,600.0	6,590.4	6,578.6	6,575.3	16.7	15.8	158.53	-55.7	-204.6	355.0	323.2	31.81	11.163	
6,700.0	6,689.5	6,676.9	6,673.2	17.1	16.1	158.54	-60.3	-210.8	373.5	341.1	32.38	11.535	
6,800.0	6,788.7	6,775.2	6,771.2	17.5	16.4	158.55	-64.9	-216.9	392.0	359.0	32.98	11.887	
6,900.0	6,887.8	6,873.4	6,869.2	17.9	16.7	158.56	-69.5	-223.1	410.5	376.9	33.59	12.220	
7,000.0	6,986.9	6,971.7	6,967.2	18.3	17.0	158.57	-74.1	-229.3	428.9	394.7	34.22	12.534	
7,100.0	7,086.0	7,070.0	7,065.1	18.7	17.4	158.58	-78.8	-235.5	447.4	412.5	34.87	12.830	
7,200.0	7,185.2	7,168.3	7,163.1	19.2	17.7	158.59	-83.4	-241.7	465.9	430.4	35.54	13.110	
7,300.0	7,284.3	7,266.5	7,261.1	19.6	18.1	158.60	-88.0	-247.8	484.4	448.2	36.22	13.374	
7,400.0	7,383.4	7,364.8	7,359.1	20.1	18.4	158.60	-92.6	-254.0	502.9	465.9	36.91	13.623	
7,500.0	7,482.5	7,463.1	7,457.0	20.5	18.8	158.61	-97.2	-260.2	521.3	483.7	37.62	13.858	
7,600.0	7,581.7	7,561.4	7,555.0	21.0	19.2	158.61	-101.8	-266.4	539.8	501.5	38.34	14.079	
7,700.0	7,680.8	7,659.7	7,653.0	21.5	19.5	158.62	-106.4	-272.6	558.3	519.2	39.07	14.288	
7,800.0	7,779.9	7,757.9	7,751.0	21.9	19.9	158.62	-111.0	-278.7	576.8	536.9	39.82	14.485	
7,900.0	7,879.0	7,856.2	7,848.9	22.4	20.3	158.63	-115.6	-284.9	595.2	554.7	40.57	14.671	
8,000.0	7,978.2	7,954.5	7,946.9	22.9	20.7	158.63	-120.2	-291.1	613.7	572.4	41.34	14.846	
8,100.0	8,077.3	8,052.8	8,044.9	23.4	21.1	158.64	-124.9	-297.3	632.2	590.1	42.11	15.011	
8,200.0	8,176.4	8,151.0	8,142.9	23.9	21.5	158.64	-129.5	-303.4	650.7	607.8	42.90	15.168	
8,300.0	8,275.5	8,249.3	8,240.8	24.4	21.9	158.64	-134.1	-309.6	669.2	625.5	43.69	15.315	
8,400.0	8,374.7	8,347.6	8,338.8	24.9	22.3	158.65	-138.7	-315.8	687.6	643.1	44.49	15.455	
8,500.0	8,473.8	8,445.9	8,436.8	25.4	22.8	158.65	-143.3	-322.0	706.1	660.8	45.30	15.587	
8,600.0	8,572.9	8,544.2	8,534.8	26.0	23.2	158.65	-147.9	-328.2	724.6	678.5	46.12	15.711	
8,700.0	8,672.0	8,642.4	8,632.7	26.5	23.6	158.66	-152.5	-334.3	743.1	696.1	46.94	15.829	
8,800.0	8,771.1	8,740.7	8,730.7	27.0	24.0	158.66	-157.1	-340.5	761.5	713.8	47.77	15.941	
8,872.8	8,843.4	8,812.3	8,802.1	27.4	24.4	158.66	-160.5	-345.0	775.0	726.6	48.37	16.023	
8,900.0	8,870.3	8,839.0	8,828.7	27.5	24.5	158.68	-161.7	-346.7	780.0	731.4	48.59	16.053	
9,000.0	8,969.6	8,937.5	8,926.9	28.0	24.9	158.71	-166.4	-352.9	797.2	747.8	49.41	16.134	
9,100.0	9,069.1	9,036.3	9,025.4	28.5	25.4	158.69	-171.0	-359.1	812.8	762.6	50.23	16.182	
9,200.0	9,168.7	9,135.3	9,124.1	29.0	25.8	158.62	-175.6	-365.3	826.9	775.8	51.04	16.200	
9,300.0	9,268.5	9,234.5	9,222.9	29.5	26.3	158.51	-180.3	-371.6	839.3	787.5	51.84	16.191	
9,400.0	9,368.4	9,333.8	9,322.0	29.9	26.7	158.35	-185.0	-377.8	850.1	797.5	52.61	16.159	
9,500.0	9,468.3	9,433.3	9,421.2	30.3	27.2	158.15	-189.6	-384.1	859.4	806.0	53.34	16.110	
9,600.0	9,568.3	9,542.7	9,530.3	30.6	27.6	157.90	-194.4	-390.5	866.6	812.5	54.04	16.035	
9,631.7	9,600.0	9,578.7	9,566.2	30.6	27.8	-90.38	-195.8	-392.3	868.2	814.0	54.22	16.014	
9,700.0	9,668.3	9,656.4	9,643.9	30.7	28.1	-90.54	-198.1	-395.5	871.1	816.5	54.53	15.974	
9,754.2	9,722.5	9,718.2	9,705.6	30.7	28.4	-90.63	-199.6	-397.4	872.8	818.0	54.76	15.937	
9,775.0	9,743.3	9,741.9	9,729.2	30.7	28.4	-90.33	-200.0	-398.0	873.3	818.5	54.84	15.924	
9,800.0	9,768.2	9,770.3	9,757.6	30.7	28.6	-90.42	-200.5	-398.6	873.9	819.0	54.94	15.905	

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 505H
Project:	Hat Mesa	TVD Reference:	WELL @ 3717.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3717.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 505H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 505H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 505H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 501H - Anderson Fed Com 501H - Anderson Fed Com 501H - Prelim 1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM				Rule Assigned:									Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre			Distance		Warning		
Measured Depth	Vertical	Measured Depth	Vertical	Reference	Offset	Highside Toolface	+N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation			
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
9,825.0	9,793.0	9,798.6	9,785.9	30.6	28.7	-90.61	-200.9	-399.1	874.4	819.3	55.05	15.885		
9,850.0	9,817.7	9,826.6	9,813.9	30.6	28.7	-90.90	-201.2	-399.5	874.8	819.7	55.13	15.868		
9,875.0	9,842.0	9,854.4	9,841.7	30.5	28.8	-91.27	-201.4	-399.8	875.2	820.0	55.22	15.850		
9,900.0	9,866.0	9,881.8	9,869.2	30.5	28.9	-91.73	-201.5	-400.0	875.5	820.2	55.30	15.832		
9,925.0	9,889.7	9,908.9	9,896.2	30.5	29.0	-92.27	-201.6	-400.1	875.9	820.5	55.38	15.817		
9,950.0	9,912.9	9,932.5	9,919.9	30.4	29.0	-92.79	-201.6	-400.1	876.3	820.9	55.41	15.814		
9,975.0	9,935.5	9,955.2	9,942.5	30.4	29.0	-93.34	-201.6	-400.1	877.0	821.5	55.45	15.815		
10,000.0	9,957.6	9,977.3	9,964.6	30.3	29.0	-93.92	-201.6	-400.1	877.8	822.3	55.49	15.820		
10,025.0	9,979.0	9,998.7	9,986.0	30.3	29.0	-94.50	-201.6	-400.1	878.9	823.4	55.53	15.829		
10,050.0	9,999.7	10,020.0	10,007.4	30.3	29.0	-95.11	-201.5	-400.1	880.3	824.8	55.56	15.845		
10,075.0	10,019.7	10,042.4	10,029.7	30.2	29.0	-95.72	-200.5	-400.1	882.0	826.4	55.58	15.868		
10,100.0	10,038.9	10,065.4	10,052.6	30.2	28.9	-96.33	-198.4	-400.3	884.1	828.4	55.61	15.898		
10,125.0	10,057.1	10,089.2	10,076.1	30.2	28.9	-96.93	-195.1	-400.6	886.4	830.7	55.63	15.935		
10,150.0	10,074.5	10,113.8	10,100.3	30.2	28.8	-97.52	-190.4	-400.9	889.0	833.4	55.64	15.978		
10,175.0	10,090.9	10,139.3	10,125.0	30.1	28.8	-98.11	-184.3	-401.4	891.9	836.3	55.65	16.026		
10,200.0	10,106.3	10,165.8	10,150.4	30.1	28.7	-98.69	-176.5	-402.1	895.1	839.4	55.66	16.081		
10,225.0	10,120.6	10,193.4	10,176.3	30.1	28.6	-99.28	-167.0	-402.8	898.5	842.9	55.67	16.139		
10,250.0	10,133.9	10,222.4	10,202.8	30.2	28.6	-99.86	-155.3	-403.7	902.2	846.5	55.69	16.201		
10,275.0	10,146.0	10,252.7	10,229.8	30.2	28.5	-100.45	-141.5	-404.8	906.1	850.4	55.71	16.266		
10,300.0	10,157.0	10,284.7	10,257.2	30.2	28.4	-101.04	-125.1	-406.2	910.2	854.5	55.74	16.330		
10,325.0	10,166.7	10,318.4	10,284.8	30.3	28.3	-101.63	-105.8	-407.7	914.5	858.7	55.78	16.394		
10,350.0	10,175.3	10,354.1	10,312.5	30.3	28.3	-102.23	-83.3	-409.5	918.9	863.0	55.84	16.454		
10,375.0	10,182.6	10,392.0	10,339.9	30.4	28.2	-102.82	-57.3	-411.6	923.3	867.4	55.93	16.509		
10,400.0	10,188.7	10,432.2	10,366.7	30.4	28.2	-103.41	-27.5	-413.9	927.8	871.7	56.04	16.555		
10,425.0	10,193.4	10,475.0	10,392.3	30.5	28.2	-103.99	6.7	-416.7	932.2	876.0	56.18	16.592		
10,450.0	10,196.9	10,520.4	10,416.0	30.6	28.2	-104.53	45.3	-419.7	936.5	880.1	56.36	16.615		
10,475.0	10,199.1	10,568.6	10,437.1	30.7	28.2	-105.02	88.4	-423.2	940.6	884.0	56.58	16.623		
10,500.0	10,200.0	10,619.4	10,454.4	30.8	28.3	-105.44	136.1	-427.0	944.4	887.6	56.84	16.615		
10,504.2	10,200.0	10,628.3	10,456.9	30.9	28.3	-105.50	144.6	-427.7	945.1	888.2	56.89	16.612		
10,600.0	10,200.0	10,813.1	10,475.0	31.4	29.1	-106.34	327.2	-441.8	953.9	895.8	58.13	16.410		
10,700.0	10,200.0	10,960.1	10,475.0	32.0	30.1	-106.27	474.1	-447.0	956.8	897.1	59.72	16.021		
10,800.0	10,200.0	11,063.8	10,475.0	32.8	30.9	-106.26	577.7	-447.6	956.9	895.6	61.27	15.617		
10,900.0	10,200.0	11,163.8	10,475.0	33.7	31.7	-106.26	677.7	-448.2	957.0	894.0	63.00	15.190		
11,000.0	10,200.0	11,263.8	10,475.0	34.6	32.7	-106.26	777.7	-448.8	957.0	892.1	64.92	14.742		
11,100.0	10,200.0	11,363.8	10,475.0	35.6	33.7	-106.26	877.7	-449.4	957.1	890.1	67.02	14.281		
11,200.0	10,200.0	11,463.8	10,475.0	36.7	34.8	-106.26	977.7	-450.0	957.2	887.9	69.28	13.816		
11,300.0	10,200.0	11,563.8	10,475.0	37.9	36.0	-106.26	1,077.7	-450.6	957.2	885.6	71.68	13.354		
11,400.0	10,200.0	11,663.8	10,475.0	39.1	37.3	-106.26	1,177.7	-451.2	957.3	883.1	74.22	12.899		
11,500.0	10,200.0	11,763.8	10,475.0	40.4	38.6	-106.26	1,277.7	-451.8	957.4	880.5	76.87	12.455		
11,600.0	10,200.0	11,863.8	10,475.0	41.8	40.0	-106.25	1,377.7	-452.4	957.5	877.8	79.63	12.025		
11,700.0	10,200.0	11,963.8	10,475.0	43.2	41.4	-106.25	1,477.7	-453.0	957.5	875.1	82.48	11.610		
11,800.0	10,200.0	12,063.8	10,475.0	44.6	42.9	-106.25	1,577.7	-453.6	957.6	872.2	85.42	11.211		
11,900.0	10,200.0	12,163.8	10,475.0	46.1	44.5	-106.25	1,677.7	-454.2	957.7	869.3	88.43	10.830		
12,000.0	10,200.0	12,263.8	10,475.0	47.7	46.1	-106.25	1,777.7	-454.8	957.8	866.2	91.51	10.466		
12,100.0	10,200.0	12,363.8	10,475.0	49.2	47.7	-106.25	1,877.7	-455.4	957.8	863.2	94.66	10.119		
12,200.0	10,200.0	12,463.8	10,475.0	50.8	49.3	-106.25	1,977.7	-456.0	957.9	860.0	97.86	9.788		
12,300.0	10,200.0	12,563.8	10,475.0	52.4	51.0	-106.25	2,077.7	-456.6	958.0	856.9	101.12	9.474		
12,400.0	10,200.0	12,663.8	10,475.0	54.1	52.7	-106.24	2,177.7	-457.2	958.0	853.6	104.41	9.175		
12,500.0	10,200.0	12,763.8	10,475.0	55.8	54.4	-106.24	2,277.7	-457.8	958.1	850.4	107.75	8.892		
12,600.0	10,200.0	12,863.8	10,475.0	57.5	56.2	-106.24	2,377.7	-458.4	958.2	847.1	111.13	8.622		
12,700.0	10,200.0	12,963.8	10,475.0	59.2	57.9	-106.24	2,477.7	-459.0	958.3	843.7	114.55	8.366		
12,800.0	10,200.0	13,063.8	10,475.0	60.9	59.7	-106.24	2,577.7	-459.6	958.3	840.3	117.99	8.122		

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 505H
Project:	Hat Mesa	TVD Reference:	WELL @ 3717.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3717.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 505H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 505H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 505H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 501H - Anderson Fed Com 501H - Anderson Fed Com 501H - Prelim 1													Offset Site Error: 0.0 usft	
Survey Program: 0-MWD+HRGM				Rule Assigned:									Offset Well Error: 0.0 usft	
Reference		Offset		Semi Major Axis			Offset Wellbore Centre			Distance				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
12,900.0	10,200.0	13,163.8	10,475.0	62.7	61.5	-106.24	2,677.7	-460.2	958.4	836.9	121.46	7.890		
13,000.0	10,200.0	13,263.8	10,475.0	64.4	63.3	-106.24	2,777.7	-460.8	958.5	833.5	124.96	7.670		
13,100.0	10,200.0	13,363.8	10,475.0	66.2	65.1	-106.24	2,877.7	-461.4	958.6	830.1	128.49	7.460		
13,200.0	10,200.0	13,463.8	10,475.0	68.0	67.0	-106.23	2,977.7	-462.0	958.6	826.6	132.03	7.260		
13,300.0	10,200.0	13,563.8	10,475.0	69.8	68.8	-106.23	3,077.7	-462.6	958.7	823.1	135.60	7.070		
13,400.0	10,200.0	13,663.8	10,475.0	71.6	70.7	-106.23	3,177.6	-463.2	958.8	819.6	139.19	6.888		
13,500.0	10,200.0	13,763.8	10,475.0	73.5	72.5	-106.23	3,277.6	-463.8	958.8	816.1	142.79	6.715		
13,600.0	10,200.0	13,863.8	10,475.0	75.3	74.4	-106.23	3,377.6	-464.4	958.9	812.5	146.41	6.550		
13,700.0	10,200.0	13,963.8	10,475.0	77.1	76.3	-106.23	3,477.6	-465.0	959.0	808.9	150.05	6.391		
13,800.0	10,200.0	14,063.8	10,475.0	79.0	78.2	-106.23	3,577.6	-465.6	959.1	805.4	153.69	6.240		
13,900.0	10,200.0	14,163.8	10,475.0	80.9	80.1	-106.23	3,677.6	-466.2	959.1	801.8	157.36	6.095		
14,000.0	10,200.0	14,263.8	10,475.0	82.7	82.0	-106.22	3,777.6	-466.9	959.2	798.2	161.03	5.957		
14,100.0	10,200.0	14,363.8	10,475.0	84.6	83.9	-106.22	3,877.6	-467.5	959.3	794.6	164.72	5.824		
14,200.0	10,200.0	14,463.8	10,475.0	86.5	85.8	-106.22	3,977.6	-468.1	959.4	790.9	168.41	5.696		
14,300.0	10,200.0	14,563.8	10,475.0	88.4	87.7	-106.22	4,077.6	-468.7	959.4	787.3	172.12	5.574		
14,400.0	10,200.0	14,663.8	10,475.0	90.3	89.6	-106.22	4,177.6	-469.3	959.5	783.7	175.83	5.457		
14,500.0	10,200.0	14,763.8	10,475.0	92.2	91.5	-106.22	4,277.6	-469.9	959.6	780.0	179.56	5.344		
14,600.0	10,200.0	14,863.8	10,475.0	94.1	93.5	-106.22	4,377.6	-470.5	959.6	776.4	183.29	5.236		
14,700.0	10,200.0	14,963.8	10,475.0	96.0	95.4	-106.22	4,477.6	-471.1	959.7	772.7	187.03	5.131		
14,800.0	10,200.0	15,063.8	10,475.0	97.9	97.3	-106.21	4,577.6	-471.7	959.8	769.0	190.78	5.031		
14,900.0	10,200.0	15,163.8	10,475.0	99.8	99.3	-106.21	4,677.6	-472.3	959.9	765.3	194.53	4.934		
15,000.0	10,200.0	15,263.8	10,475.0	101.7	101.2	-106.21	4,777.6	-472.9	959.9	761.6	198.29	4.841		
15,100.0	10,200.0	15,363.8	10,475.0	103.7	103.1	-106.21	4,877.6	-473.5	960.0	758.0	202.06	4.751		
15,200.0	10,200.0	15,463.8	10,475.0	105.6	105.1	-106.21	4,977.6	-474.1	960.1	754.3	205.83	4.664		
15,300.0	10,200.0	15,563.8	10,475.0	107.5	107.0	-106.21	5,077.6	-474.7	960.2	750.5	209.61	4.581		
15,400.0	10,200.0	15,663.8	10,475.0	109.5	109.0	-106.21	5,177.6	-475.3	960.2	746.8	213.39	4.500		
15,500.0	10,200.0	15,763.8	10,475.0	111.4	111.0	-106.21	5,277.6	-475.9	960.3	743.1	217.18	4.422		
15,600.0	10,200.0	15,863.8	10,475.0	113.3	112.9	-106.20	5,377.6	-476.5	960.4	739.4	220.97	4.346		
15,700.0	10,200.0	15,963.8	10,475.0	115.3	114.9	-106.20	5,477.6	-477.1	960.4	735.7	224.77	4.273		
15,800.0	10,200.0	16,063.8	10,475.0	117.2	116.8	-106.20	5,577.6	-477.7	960.5	732.0	228.57	4.202		
15,900.0	10,200.0	16,163.8	10,475.0	119.2	118.8	-106.20	5,677.6	-478.3	960.6	728.2	232.37	4.134		
16,000.0	10,200.0	16,263.8	10,475.0	121.1	120.8	-106.20	5,777.6	-478.9	960.7	724.5	236.18	4.067		
16,100.0	10,200.0	16,363.8	10,475.0	123.1	122.7	-106.20	5,877.6	-479.5	960.7	720.7	239.99	4.003		
16,200.0	10,200.0	16,463.8	10,475.0	125.0	124.7	-106.20	5,977.6	-480.1	960.8	717.0	243.81	3.941		
16,300.0	10,200.0	16,563.8	10,475.0	127.0	126.7	-106.20	6,077.6	-480.7	960.9	713.3	247.63	3.880		
16,400.0	10,200.0	16,663.8	10,475.0	129.0	128.6	-106.19	6,177.6	-481.3	961.0	709.5	251.45	3.822		
16,500.0	10,200.0	16,763.8	10,475.0	130.9	130.6	-106.19	6,277.6	-481.9	961.0	705.8	255.28	3.765		
16,600.0	10,200.0	16,863.8	10,475.0	132.9	132.6	-106.19	6,377.6	-482.5	961.1	702.0	259.10	3.709		
16,700.0	10,200.0	16,963.8	10,475.0	134.8	134.5	-106.19	6,477.6	-483.1	961.2	698.2	262.94	3.656		
16,800.0	10,200.0	17,063.8	10,475.0	136.8	136.5	-106.19	6,577.6	-483.7	961.2	694.5	266.77	3.603		
16,900.0	10,200.0	17,163.8	10,475.0	138.8	138.5	-106.19	6,677.6	-484.3	961.3	690.7	270.61	3.552		
17,000.0	10,200.0	17,263.8	10,475.0	140.7	140.5	-106.19	6,777.6	-484.9	961.4	686.9	274.44	3.503		
17,100.0	10,200.0	17,363.8	10,475.0	142.7	142.5	-106.19	6,877.6	-485.5	961.5	683.2	278.28	3.455		
17,200.0	10,200.0	17,463.8	10,475.0	144.7	144.4	-106.18	6,977.6	-486.1	961.5	679.4	282.13	3.408		
17,300.0	10,200.0	17,563.8	10,475.0	146.6	146.4	-106.18	7,077.6	-486.7	961.6	675.6	285.97	3.363		
17,400.0	10,200.0	17,663.8	10,475.0	148.6	148.4	-106.18	7,177.6	-487.3	961.7	671.9	289.82	3.318		
17,500.0	10,200.0	17,763.8	10,475.0	150.6	150.4	-106.18	7,277.6	-487.9	961.8	668.1	293.67	3.275		
17,600.0	10,200.0	17,863.8	10,475.0	152.6	152.4	-106.18	7,377.6	-488.5	961.8	664.3	297.52	3.233		
17,700.0	10,200.0	17,963.8	10,475.0	154.5	154.3	-106.18	7,477.6	-489.1	961.9	660.5	301.37	3.192		
17,800.0	10,200.0	18,063.8	10,475.0	156.5	156.3	-106.18	7,577.6	-489.7	962.0	656.7	305.23	3.152		
17,900.0	10,200.0	18,163.8	10,475.0	158.5	158.3	-106.18	7,677.6	-490.3	962.0	653.0	309.08	3.113		
18,000.0	10,200.0	18,263.8	10,475.0	160.5	160.3	-106.17	7,777.6	-490.9	962.1	649.2	312.94	3.074		

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 505H
Project:	Hat Mesa	TVD Reference:	WELL @ 3717.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3717.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 505H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 505H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 505H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 501H - Anderson Fed Com 501H - Anderson Fed Com 501H - Prelim 1														Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM														Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
18,100.0	10,200.0	18,363.8	10,475.0	162.5	162.3	-106.17	7,877.6	-491.5	962.2	645.4	316.80	3.037			
18,200.0	10,200.0	18,463.8	10,475.0	164.4	164.3	-106.17	7,977.6	-492.1	962.3	641.6	320.66	3.001			
18,200.2	10,200.0	18,464.0	10,475.0	164.4	164.3	-106.17	7,977.8	-492.1	962.3	641.6	320.67	3.001			
18,226.2	10,200.0	18,484.9	10,475.0	165.0	164.7	-106.17	7,998.7	-492.2	962.3	640.8	321.54	2.993 SF			



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 505H
Project:	Hat Mesa	TVD Reference:	WELL @ 3717.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3717.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 505H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 505H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 505H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 551H - Anderson Fed Com 551H - Anderson Fed Com 551H - Prelim 1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	7.0	7.0	0.0	0.0	-90.79	-1.4	-99.0	99.0				
100.0	100.0	107.0	107.0	0.5	0.6	-90.79	-1.4	-99.0	99.0	97.9	1.14	86.656	
200.0	200.0	207.0	207.0	1.7	1.8	-90.79	-1.4	-99.0	99.0	95.6	3.47	28.524	
300.0	300.0	307.0	307.0	2.4	2.4	-90.79	-1.4	-99.0	99.0	94.2	4.86	20.377	
400.0	400.0	407.0	407.0	3.0	3.0	-90.79	-1.4	-99.0	99.0	93.1	5.94	16.674	
500.0	500.0	507.0	507.0	3.4	3.4	-90.79	-1.4	-99.0	99.0	92.2	6.86	14.441	
600.0	600.0	607.0	607.0	3.8	3.9	-90.79	-1.4	-99.0	99.0	91.4	7.67	12.906	
700.0	700.0	707.0	707.0	4.2	4.2	-90.79	-1.4	-99.0	99.0	90.6	8.42	11.766	
800.0	800.0	807.0	807.0	4.5	4.6	-90.79	-1.4	-99.0	99.0	89.9	9.11	10.877	
900.0	900.0	907.0	907.0	4.9	4.9	-90.79	-1.4	-99.0	99.0	89.3	9.75	10.157	
1,000.0	1,000.0	1,007.0	1,007.0	5.2	5.2	-90.79	-1.4	-99.0	99.0	88.7	10.36	9.559	
1,100.0	1,100.0	1,107.0	1,107.0	5.5	5.5	-90.79	-1.4	-99.0	99.0	88.1	10.94	9.052	
1,200.0	1,200.0	1,207.0	1,207.0	5.7	5.8	-90.79	-1.4	-99.0	99.0	87.6	11.50	8.614	
1,300.0	1,300.0	1,307.0	1,307.0	6.0	6.0	-90.79	-1.4	-99.0	99.0	87.0	12.03	8.231	
1,400.0	1,400.0	1,407.0	1,407.0	6.3	6.3	-90.79	-1.4	-99.0	99.0	86.5	12.55	7.893	
1,500.0	1,500.0	1,507.0	1,507.0	6.5	6.5	-90.79	-1.4	-99.0	99.0	86.0	13.05	7.591	
1,600.0	1,600.0	1,607.0	1,607.0	6.8	6.8	-90.79	-1.4	-99.0	99.0	85.5	13.53	7.319	
1,700.0	1,700.0	1,707.0	1,707.0	7.0	7.0	-90.79	-1.4	-99.0	99.0	85.0	14.01	7.072	
1,800.0	1,800.0	1,807.0	1,807.0	7.2	7.2	-90.79	-1.4	-99.0	99.0	84.6	14.47	6.847	
1,900.0	1,900.0	1,907.0	1,907.0	7.4	7.5	-90.79	-1.4	-99.0	99.0	84.1	14.91	6.641	
2,000.0	2,000.0	2,007.0	2,007.0	7.7	7.7	-90.79	-1.4	-99.0	99.0	83.7	15.35	6.451	
2,100.0	2,100.0	2,107.0	2,107.0	7.9	7.9	-90.79	-1.4	-99.0	99.0	83.3	15.78	6.275	
2,200.0	2,200.0	2,207.0	2,207.0	8.1	8.1	-90.79	-1.4	-99.0	99.0	82.8	16.21	6.111	
2,300.0	2,300.0	2,307.0	2,307.0	8.3	8.3	-90.79	-1.4	-99.0	99.0	82.4	16.62	5.959	
2,400.0	2,400.0	2,407.0	2,407.0	8.5	8.5	-90.79	-1.4	-99.0	99.0	82.0	17.03	5.816	
2,500.0	2,500.0	2,507.0	2,507.0	8.7	8.7	-90.79	-1.4	-99.0	99.0	81.6	17.43	5.682	
2,600.0	2,600.0	2,607.0	2,607.0	8.9	8.9	-90.79	-1.4	-99.0	99.0	81.2	17.83	5.556	
2,700.0	2,700.0	2,707.0	2,707.0	9.1	9.1	-90.79	-1.4	-99.0	99.0	80.8	18.22	5.438	
2,800.0	2,800.0	2,807.0	2,807.0	9.3	9.3	-90.79	-1.4	-99.0	99.0	80.5	18.60	5.325	
2,900.0	2,900.0	2,907.0	2,907.0	9.5	9.5	-90.79	-1.4	-99.0	99.0	80.1	18.98	5.219	
3,000.0	3,000.0	3,007.0	3,007.0	9.7	9.7	-90.79	-1.4	-99.0	99.0	79.7	19.35	5.118	
3,100.0	3,100.0	3,107.0	3,107.0	9.9	9.9	-90.79	-1.4	-99.0	99.0	79.3	19.72	5.022	
3,200.0	3,200.0	3,207.0	3,207.0	10.0	10.0	-90.79	-1.4	-99.0	99.0	79.0	20.09	4.931	
3,300.0	3,300.0	3,307.0	3,307.0	10.2	10.2	-90.79	-1.4	-99.0	99.0	78.6	20.45	4.844	
3,400.0	3,400.0	3,407.0	3,407.0	10.4	10.4	-90.79	-1.4	-99.0	99.0	78.2	20.81	4.761	
3,500.0	3,500.0	3,507.0	3,507.0	10.6	10.6	-90.79	-1.4	-99.0	99.0	77.9	21.16	4.681	
3,600.0	3,600.0	3,607.0	3,607.0	10.7	10.8	-90.79	-1.4	-99.0	99.0	77.5	21.51	4.605	
3,700.0	3,700.0	3,707.0	3,707.0	10.9	10.9	-90.79	-1.4	-99.0	99.0	77.2	21.86	4.531	
3,800.0	3,800.0	3,807.0	3,807.0	11.1	11.1	-90.79	-1.4	-99.0	99.0	76.8	22.20	4.461	
3,900.0	3,900.0	3,907.0	3,907.0	11.3	11.3	-90.79	-1.4	-99.0	99.0	76.5	22.54	4.394	
4,000.0	4,000.0	4,007.0	4,007.0	11.4	11.4	-90.79	-1.4	-99.0	99.0	76.2	22.88	4.329	
4,100.0	4,100.0	4,107.0	4,107.0	11.6	11.6	-90.79	-1.4	-99.0	99.0	75.8	23.22	4.266	
4,200.0	4,200.0	4,207.0	4,207.0	11.8	11.8	-90.79	-1.4	-99.0	99.0	75.5	23.55	4.206	
4,300.0	4,300.0	4,307.0	4,307.0	11.9	11.9	-90.79	-1.4	-99.0	99.0	75.2	23.88	4.147	
4,400.0	4,400.0	4,407.0	4,407.0	12.1	12.1	-90.79	-1.4	-99.0	99.0	74.8	24.21	4.091	
4,500.0	4,500.0	4,507.0	4,507.0	12.3	12.3	-90.79	-1.4	-99.0	99.0	74.5	24.54	4.037	
4,600.0	4,600.0	4,607.0	4,607.0	12.4	12.4	-90.79	-1.4	-99.0	99.0	74.2	24.86	3.984	
4,700.0	4,700.0	4,707.0	4,707.0	12.6	12.6	-90.79	-1.4	-99.0	99.0	73.9	25.18	3.933	
4,800.0	4,800.0	4,807.0	4,807.0	12.7	12.8	-90.79	-1.4	-99.0	99.0	73.5	25.50	3.884	
4,900.0	4,900.0	4,907.0	4,907.0	12.9	12.9	-90.79	-1.4	-99.0	99.0	73.2	25.82	3.836	
5,000.0	5,000.0	5,007.0	5,007.0	13.1	13.1	-90.79	-1.4	-99.0	99.0	72.9	26.14	3.790 CC, ES	
5,100.0	5,100.0	5,107.0	5,107.0	13.2	13.2	157.60	-1.4	-99.0	99.9	73.5	26.40	3.783 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 505H
Project:	Hat Mesa	TVD Reference:	WELL @ 3717.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3717.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 505H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 505H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 505H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 551H - Anderson Fed Com 551H - Anderson Fed Com 551H - Prelim 1													Offset Site Error: 0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.0	5,200.0	5,207.0	5,207.0	13.3	13.4	158.15	-1.4	-99.0	102.3	75.6	26.65	3.837	
5,300.0	5,299.9	5,306.9	5,306.9	13.4	13.5	159.01	-1.4	-99.0	106.3	79.4	26.92	3.950	
5,400.0	5,399.7	5,406.6	5,406.6	13.5	13.7	160.11	-1.4	-99.0	112.1	84.9	27.20	4.119	
5,500.0	5,499.4	5,504.7	5,504.7	13.7	13.8	161.04	-2.0	-99.8	120.2	92.8	27.44	4.380	
5,600.0	5,598.9	5,602.5	5,602.4	13.9	13.9	161.59	-3.6	-101.9	131.3	103.6	27.69	4.741	
5,700.0	5,698.3	5,700.0	5,699.9	14.1	14.0	161.80	-6.2	-105.2	145.3	117.3	27.97	5.195	
5,758.9	5,756.6	5,756.7	5,756.5	14.2	14.0	161.80	-8.2	-107.8	154.9	126.8	28.12	5.508	
5,800.0	5,797.4	5,796.4	5,796.1	14.2	14.1	161.77	-9.8	-109.8	162.0	133.8	28.22	5.742	
5,900.0	5,896.5	5,894.7	5,894.1	14.5	14.2	161.59	-14.1	-115.3	179.8	151.2	28.55	6.297	
6,000.0	5,995.7	5,993.1	5,992.3	14.7	14.4	161.44	-18.4	-120.7	197.5	168.6	28.92	6.831	
6,100.0	6,094.8	6,091.5	6,090.4	15.0	14.5	161.32	-22.6	-126.2	215.2	185.9	29.31	7.343	
6,200.0	6,193.9	6,189.9	6,188.6	15.3	14.7	161.21	-26.9	-131.6	233.0	203.3	29.74	7.835	
6,300.0	6,293.0	6,288.3	6,286.8	15.7	14.9	161.12	-31.2	-137.0	250.7	220.5	30.19	8.306	
6,400.0	6,392.2	6,386.7	6,385.0	16.0	15.1	161.04	-35.4	-142.5	268.5	237.8	30.66	8.756	
6,500.0	6,491.3	6,485.1	6,483.1	16.4	15.3	160.98	-39.7	-147.9	286.2	255.1	31.16	9.186	
6,600.0	6,590.4	6,583.6	6,581.3	16.7	15.6	160.92	-44.0	-153.4	304.0	272.3	31.68	9.595	
6,700.0	6,689.5	6,682.0	6,679.5	17.1	15.8	160.86	-48.3	-158.8	321.7	289.5	32.22	9.985	
6,800.0	6,788.7	6,780.4	6,777.6	17.5	16.1	160.81	-52.5	-164.3	339.4	306.7	32.78	10.356	
6,900.0	6,887.8	6,878.8	6,875.8	17.9	16.3	160.77	-56.8	-169.7	357.2	323.8	33.36	10.708	
7,000.0	6,986.9	6,977.2	6,974.0	18.3	16.6	160.73	-61.1	-175.2	374.9	341.0	33.95	11.042	
7,100.0	7,086.0	7,075.6	7,072.1	18.7	16.9	160.70	-65.3	-180.6	392.7	358.1	34.57	11.359	
7,200.0	7,185.2	7,174.0	7,170.3	19.2	17.2	160.66	-69.6	-186.1	410.4	375.2	35.20	11.660	
7,300.0	7,284.3	7,272.4	7,268.5	19.6	17.5	160.63	-73.9	-191.5	428.2	392.3	35.84	11.945	
7,400.0	7,383.4	7,370.9	7,366.6	20.1	17.9	160.61	-78.2	-197.0	445.9	409.4	36.50	12.215	
7,500.0	7,482.5	7,469.3	7,464.8	20.5	18.2	160.58	-82.4	-202.4	463.6	426.5	37.18	12.471	
7,600.0	7,581.7	7,567.7	7,563.0	21.0	18.5	160.56	-86.7	-207.8	481.4	443.5	37.87	12.713	
7,700.0	7,680.8	7,666.1	7,661.2	21.5	18.9	160.54	-91.0	-213.3	499.1	460.6	38.56	12.943	
7,800.0	7,779.9	7,764.5	7,759.3	21.9	19.2	160.52	-95.2	-218.7	516.9	477.6	39.27	13.160	
7,900.0	7,879.0	7,862.9	7,857.5	22.4	19.6	160.50	-99.5	-224.2	534.6	494.6	40.00	13.366	
8,000.0	7,978.2	7,961.3	7,955.7	22.9	20.0	160.48	-103.8	-229.6	552.4	511.6	40.73	13.562	
8,100.0	8,077.3	8,059.8	8,053.8	23.4	20.3	160.46	-108.1	-235.1	570.1	528.6	41.47	13.747	
8,200.0	8,176.4	8,158.2	8,152.0	23.9	20.7	160.45	-112.3	-240.5	587.8	545.6	42.22	13.922	
8,300.0	8,275.5	8,256.6	8,250.2	24.4	21.1	160.43	-116.6	-246.0	605.6	562.6	42.98	14.089	
8,400.0	8,374.7	8,355.0	8,348.3	24.9	21.5	160.42	-120.9	-251.4	623.3	579.6	43.75	14.247	
8,500.0	8,473.8	8,453.4	8,446.5	25.4	21.9	160.41	-125.1	-256.9	641.1	596.5	44.53	14.397	
8,600.0	8,572.9	8,551.8	8,544.7	26.0	22.3	160.39	-129.4	-262.3	658.8	613.5	45.31	14.539	
8,700.0	8,672.0	8,650.2	8,642.9	26.5	22.7	160.38	-133.7	-267.8	676.6	630.5	46.11	14.674	
8,800.0	8,771.1	8,748.6	8,741.0	27.0	23.1	160.37	-138.0	-273.2	694.3	647.4	46.91	14.802	
8,872.8	8,843.4	8,820.3	8,812.5	27.4	23.4	160.36	-141.1	-277.2	707.2	659.8	47.48	14.896	
8,900.0	8,870.3	8,847.1	8,839.2	27.5	23.5	160.37	-142.2	-278.6	712.0	664.3	47.69	14.930	
9,000.0	8,969.6	8,945.7	8,937.6	28.0	23.9	160.38	-146.5	-284.1	728.5	680.0	48.48	15.026	
9,100.0	9,069.1	9,044.6	9,036.2	28.5	24.3	160.34	-150.8	-289.6	743.4	694.1	49.27	15.086	
9,200.0	9,168.7	9,143.7	9,135.1	29.0	24.8	160.26	-155.1	-295.1	756.6	706.6	50.05	15.116	
9,300.0	9,268.5	9,243.0	9,234.1	29.5	25.2	160.13	-159.4	-300.6	768.2	717.4	50.82	15.118	
9,400.0	9,368.4	9,342.4	9,333.3	29.9	25.6	159.95	-163.7	-306.1	778.2	726.7	51.56	15.094	
9,500.0	9,468.3	9,442.0	9,432.7	30.3	26.1	159.73	-168.0	-311.6	786.6	734.3	52.27	15.049	
9,600.0	9,568.3	9,541.7	9,532.1	30.6	26.5	159.46	-172.4	-317.1	793.4	740.5	52.92	14.992	
9,631.7	9,600.0	9,573.3	9,563.7	30.6	26.6	-88.83	-173.7	-318.8	795.2	742.1	53.07	14.984	
9,700.0	9,668.3	9,641.5	9,631.6	30.7	26.9	-89.04	-176.7	-322.6	798.9	745.6	53.34	14.977	
9,754.2	9,722.5	9,695.6	9,685.6	30.7	27.2	-89.22	-179.1	-325.6	801.9	748.3	53.56	14.973	
9,775.0	9,743.3	9,716.2	9,706.2	30.7	27.3	-88.88	-180.0	-326.7	803.0	749.4	53.64	14.972	
9,800.0	9,768.2	9,741.0	9,731.0	30.7	27.4	-88.92	-181.0	-328.1	804.4	750.6	53.73	14.970	

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 505H
Project:	Hat Mesa	TVD Reference:	WELL @ 3717.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3717.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 505H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 505H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 505H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 551H - Anderson Fed Com 551H - Anderson Fed Com 551H - Prelim 1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Semi Major Axis Offset (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
9,825.0	9,793.0	9,765.7	9,755.5	30.6	27.5	-89.05	-182.1	-329.5	805.7	751.9	53.83	14.967	
9,850.0	9,817.7	9,790.0	9,779.8	30.6	27.6	-89.26	-183.2	-330.8	807.0	753.1	53.93	14.965	
9,875.0	9,842.0	9,814.1	9,803.8	30.5	27.7	-89.55	-184.2	-332.2	808.4	754.4	54.03	14.962	
9,900.0	9,866.0	9,837.8	9,827.4	30.5	27.8	-89.91	-185.2	-333.5	809.8	755.7	54.13	14.960	
9,925.0	9,889.7	9,861.0	9,850.6	30.5	27.9	-90.33	-186.2	-334.8	811.3	757.1	54.24	14.959	
9,950.0	9,912.9	9,883.7	9,873.3	30.4	28.0	-90.80	-187.2	-336.0	813.0	758.6	54.34	14.960	
9,975.0	9,935.5	9,905.9	9,895.4	30.4	28.1	-91.30	-188.2	-337.2	814.8	760.3	54.45	14.964	
10,000.0	9,957.6	9,927.4	9,916.8	30.3	28.2	-91.82	-189.1	-338.4	816.8	762.2	54.55	14.972	
10,025.0	9,979.0	9,948.2	9,937.6	30.3	28.3	-92.35	-190.0	-339.6	819.0	764.4	54.66	14.985	
10,050.0	9,999.7	9,968.3	9,957.6	30.3	28.4	-92.87	-190.9	-340.7	821.6	766.8	54.76	15.003	
10,075.0	10,019.7	9,987.5	9,976.8	30.2	28.5	-93.37	-191.7	-341.8	824.5	769.6	54.86	15.029	
10,100.0	10,038.9	10,005.9	9,995.2	30.2	28.6	-93.84	-192.5	-342.8	827.8	772.9	54.95	15.064	
10,125.0	10,057.1	10,025.7	10,015.0	30.2	28.7	-94.36	-193.4	-343.8	831.5	776.5	55.05	15.105	
10,150.0	10,074.5	10,044.8	10,034.0	30.2	28.7	-94.84	-194.1	-344.8	835.7	780.5	55.14	15.155	
10,175.0	10,090.9	10,062.8	10,051.9	30.1	28.8	-95.25	-194.8	-345.7	840.3	785.1	55.22	15.216	
10,200.0	10,106.3	10,079.7	10,068.8	30.1	28.9	-95.56	-195.4	-346.5	845.4	790.1	55.29	15.289	
10,225.0	10,120.6	10,095.5	10,084.5	30.1	29.0	-95.77	-196.0	-347.2	851.1	795.7	55.35	15.376	
10,250.0	10,133.9	10,110.0	10,099.1	30.2	29.0	-95.86	-196.5	-347.8	857.4	802.0	55.40	15.477	
10,275.0	10,146.0	10,123.3	10,112.3	30.2	29.1	-95.81	-196.9	-348.4	864.3	808.8	55.42	15.593	
10,300.0	10,157.0	10,135.3	10,124.3	30.2	29.1	-95.62	-197.3	-348.8	871.8	816.3	55.44	15.726	
10,325.0	10,166.7	10,145.9	10,134.9	30.3	29.2	-95.26	-197.6	-349.2	879.9	824.5	55.43	15.874	
10,350.0	10,175.3	10,155.1	10,144.2	30.3	29.2	-94.74	-197.8	-349.5	888.8	833.3	55.41	16.040	
10,375.0	10,182.6	10,163.0	10,152.0	30.4	29.2	-94.04	-198.0	-349.8	898.2	842.8	55.37	16.222	
10,400.0	10,188.7	10,169.4	10,158.4	30.4	29.3	-93.15	-198.2	-350.0	908.3	853.0	55.31	16.421	
10,425.0	10,193.4	10,174.3	10,163.3	30.5	29.3	-92.07	-198.3	-350.2	918.9	863.7	55.23	16.638	
10,450.0	10,196.9	10,177.7	10,166.7	30.6	29.3	-90.79	-198.4	-350.3	930.2	875.1	55.14	16.870	
10,475.0	10,199.1	10,179.5	10,168.5	30.7	29.3	-89.32	-198.5	-350.4	942.0	887.0	55.02	17.119	
10,500.0	10,200.0	10,179.8	10,168.8	30.8	29.3	-87.65	-198.5	-350.4	954.3	899.4	54.89	17.384	
10,504.2	10,200.0	10,179.7	10,168.7	30.9	29.3	-87.35	-198.5	-350.4	956.4	901.5	54.87	17.430	



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 505H
Project:	Hat Mesa	TVD Reference:	WELL @ 3717.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3717.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 505H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 505H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 505H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 552H - Anderson Fed Com 552H - Anderson Fed Com 552H - Prelim 1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	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	5.0	5.0	0.0	0.0	-91.00	-0.6	-33.0	33.0				
100.0	100.0	105.0	105.0	0.5	0.6	-91.00	-0.6	-33.0	33.0	31.9	1.12	29.496	
200.0	200.0	205.0	205.0	1.7	1.7	-91.00	-0.6	-33.0	33.0	29.6	3.46	9.547	
300.0	300.0	305.0	305.0	2.4	2.4	-91.00	-0.6	-33.0	33.0	28.2	4.85	6.808	
400.0	400.0	405.0	405.0	3.0	3.0	-91.00	-0.6	-33.0	33.0	27.1	5.93	5.567	
500.0	500.0	505.0	505.0	3.4	3.4	-91.00	-0.6	-33.0	33.0	26.2	6.85	4.820	
600.0	600.0	605.0	605.0	3.8	3.8	-91.00	-0.6	-33.0	33.0	25.4	7.67	4.306	
700.0	700.0	705.0	705.0	4.2	4.2	-91.00	-0.6	-33.0	33.0	24.6	8.41	3.925	
800.0	800.0	805.0	805.0	4.5	4.6	-91.00	-0.6	-33.0	33.0	23.9	9.10	3.628	
900.0	900.0	905.0	905.0	4.9	4.9	-91.00	-0.6	-33.0	33.0	23.3	9.75	3.388	
1,000.0	1,000.0	1,005.0	1,005.0	5.2	5.2	-91.00	-0.6	-33.0	33.0	22.7	10.36	3.188	
1,100.0	1,100.0	1,105.0	1,105.0	5.5	5.5	-91.00	-0.6	-33.0	33.0	22.1	10.94	3.019	
1,200.0	1,200.0	1,205.0	1,205.0	5.7	5.8	-91.00	-0.6	-33.0	33.0	21.5	11.49	2.873	
1,300.0	1,300.0	1,305.0	1,305.0	6.0	6.0	-91.00	-0.6	-33.0	33.0	21.0	12.03	2.745	
1,400.0	1,400.0	1,405.0	1,405.0	6.3	6.3	-91.00	-0.6	-33.0	33.0	20.5	12.54	2.632	
1,500.0	1,500.0	1,505.0	1,505.0	6.5	6.5	-91.00	-0.6	-33.0	33.0	20.0	13.04	2.531	
1,600.0	1,600.0	1,605.0	1,605.0	6.8	6.8	-91.00	-0.6	-33.0	33.0	19.5	13.53	2.441	
1,700.0	1,700.0	1,705.0	1,705.0	7.0	7.0	-91.00	-0.6	-33.0	33.0	19.0	14.00	2.358	
1,800.0	1,800.0	1,805.0	1,805.0	7.2	7.2	-91.00	-0.6	-33.0	33.0	18.6	14.46	2.283	
1,900.0	1,900.0	1,905.0	1,905.0	7.4	7.5	-91.00	-0.6	-33.0	33.0	18.1	14.91	2.214	
2,000.0	2,000.0	2,005.0	2,005.0	7.7	7.7	-91.00	-0.6	-33.0	33.0	17.7	15.35	2.151	
2,100.0	2,100.0	2,105.0	2,105.0	7.9	7.9	-91.00	-0.6	-33.0	33.0	17.2	15.78	2.092	
2,200.0	2,200.0	2,205.0	2,205.0	8.1	8.1	-91.00	-0.6	-33.0	33.0	16.8	16.20	2.038	
2,300.0	2,300.0	2,305.0	2,305.0	8.3	8.3	-91.00	-0.6	-33.0	33.0	16.4	16.62	1.987	
2,400.0	2,400.0	2,405.0	2,405.0	8.5	8.5	-91.00	-0.6	-33.0	33.0	16.0	17.03	1.939	
2,500.0	2,500.0	2,505.0	2,505.0	8.7	8.7	-91.00	-0.6	-33.0	33.0	15.6	17.43	1.895	
2,600.0	2,600.0	2,605.0	2,605.0	8.9	8.9	-91.00	-0.6	-33.0	33.0	15.2	17.82	1.853	
2,700.0	2,700.0	2,705.0	2,705.0	9.1	9.1	-91.00	-0.6	-33.0	33.0	14.8	18.21	1.813	
2,800.0	2,800.0	2,805.0	2,805.0	9.3	9.3	-91.00	-0.6	-33.0	33.0	14.4	18.60	1.776	
2,900.0	2,900.0	2,905.0	2,905.0	9.5	9.5	-91.00	-0.6	-33.0	33.0	14.0	18.97	1.740	
3,000.0	3,000.0	3,005.0	3,005.0	9.7	9.7	-91.00	-0.6	-33.0	33.0	13.7	19.35	1.706	
3,100.0	3,100.0	3,105.0	3,105.0	9.9	9.9	-91.00	-0.6	-33.0	33.0	13.3	19.72	1.674	
3,200.0	3,200.0	3,205.0	3,205.0	10.0	10.0	-91.00	-0.6	-33.0	33.0	12.9	20.08	1.644	
3,300.0	3,300.0	3,305.0	3,305.0	10.2	10.2	-91.00	-0.6	-33.0	33.0	12.6	20.45	1.615	
3,400.0	3,400.0	3,405.0	3,405.0	10.4	10.4	-91.00	-0.6	-33.0	33.0	12.2	20.80	1.587	
3,500.0	3,500.0	3,505.0	3,505.0	10.6	10.6	-91.00	-0.6	-33.0	33.0	11.9	21.16	1.561	
3,600.0	3,600.0	3,605.0	3,605.0	10.7	10.8	-91.00	-0.6	-33.0	33.0	11.5	21.51	1.535	
3,700.0	3,700.0	3,705.0	3,705.0	10.9	10.9	-91.00	-0.6	-33.0	33.0	11.2	21.86	1.511	
3,800.0	3,800.0	3,805.0	3,805.0	11.1	11.1	-91.00	-0.6	-33.0	33.0	10.8	22.20	1.487 Level 3	
3,900.0	3,900.0	3,905.0	3,905.0	11.3	11.3	-91.00	-0.6	-33.0	33.0	10.5	22.54	1.465 Level 3	
4,000.0	4,000.0	4,005.0	4,005.0	11.4	11.4	-91.00	-0.6	-33.0	33.0	10.1	22.88	1.443 Level 3	
4,100.0	4,100.0	4,105.0	4,105.0	11.6	11.6	-91.00	-0.6	-33.0	33.0	9.8	23.22	1.422 Level 3	
4,200.0	4,200.0	4,205.0	4,205.0	11.8	11.8	-91.00	-0.6	-33.0	33.0	9.5	23.55	1.402 Level 3	
4,300.0	4,300.0	4,305.0	4,305.0	11.9	11.9	-91.00	-0.6	-33.0	33.0	9.1	23.88	1.383 Level 3	
4,400.0	4,400.0	4,405.0	4,405.0	12.1	12.1	-91.00	-0.6	-33.0	33.0	8.8	24.21	1.364 Level 3	
4,500.0	4,500.0	4,505.0	4,505.0	12.3	12.3	-91.00	-0.6	-33.0	33.0	8.5	24.53	1.346 Level 3	
4,600.0	4,600.0	4,605.0	4,605.0	12.4	12.4	-91.00	-0.6	-33.0	33.0	8.2	24.86	1.328 Level 3	
4,700.0	4,700.0	4,705.0	4,705.0	12.6	12.6	-91.00	-0.6	-33.0	33.0	7.8	25.18	1.311 Level 3	
4,800.0	4,800.0	4,805.0	4,805.0	12.7	12.8	-91.00	-0.6	-33.0	33.0	7.5	25.50	1.295 Level 3	
4,900.0	4,900.0	4,905.0	4,905.0	12.9	12.9	-91.00	-0.6	-33.0	33.0	7.2	25.82	1.279 Level 3	
5,000.0	5,000.0	5,005.0	5,005.0	13.1	13.1	-91.00	-0.6	-33.0	33.0	6.9	26.13	1.264 Level 3	
5,100.0	5,100.0	5,105.5	5,105.5	13.2	13.2	157.07	-1.0	-32.1	32.9	6.6	26.34	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 505H
Project:	Hat Mesa	TVD Reference:	WELL @ 3717.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3717.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 505H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 505H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 505H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 552H - Anderson Fed Com 552H - Anderson Fed Com 552H - Prelim 1													Offset Site Error: 0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.0 usft
Reference	Offset	Rule Assigned:											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,200.0	5,200.0	5,206.1	5,206.0	13.3	13.3	156.81	-2.1	-29.6	32.9	6.4	26.53	1.240	Level 3
5,300.0	5,299.9	5,306.6	5,306.4	13.4	13.4	156.42	-4.0	-25.5	32.9	6.1	26.75	1.229	Level 3
5,321.6	5,321.5	5,328.3	5,328.1	13.4	13.4	156.31	-4.5	-24.4	32.9	6.1	26.80	1.227	Level 3, CC
5,400.0	5,399.7	5,407.1	5,406.8	13.5	13.5	155.89	-6.5	-19.8	32.9	5.9	26.99	1.219	Level 3
5,500.0	5,499.4	5,507.6	5,507.0	13.7	13.7	155.24	-9.8	-12.5	32.9	5.7	27.26	1.208	Level 3, ES, SF
5,600.0	5,598.9	5,607.6	5,606.6	13.9	13.8	155.10	-13.5	-4.4	33.7	6.1	27.56	1.223	Level 3
5,700.0	5,698.3	5,707.6	5,706.1	14.1	14.0	156.13	-17.2	3.7	36.0	8.1	27.93	1.291	Level 3
5,758.9	5,756.6	5,766.4	5,764.7	14.2	14.1	157.15	-19.4	8.5	38.2	10.0	28.14	1.357	Level 3
5,800.0	5,797.4	5,807.5	5,805.7	14.2	14.2	157.92	-20.9	11.9	39.9	11.6	28.30	1.410	Level 3
5,900.0	5,896.5	5,907.4	5,905.2	14.5	14.5	159.55	-24.6	20.0	44.0	15.3	28.75	1.532	
6,000.0	5,995.7	6,007.3	6,004.7	14.7	14.7	160.90	-28.2	28.2	48.2	19.0	29.25	1.648	
6,100.0	6,094.8	6,107.2	6,104.2	15.0	15.0	162.03	-31.9	36.3	52.4	22.6	29.79	1.760	
6,200.0	6,193.9	6,207.2	6,203.7	15.3	15.3	162.99	-35.6	44.4	56.6	26.3	30.37	1.865	
6,300.0	6,293.0	6,307.1	6,303.2	15.7	15.5	163.82	-39.3	52.6	60.9	29.9	30.98	1.966	
6,400.0	6,392.2	6,407.0	6,402.7	16.0	15.9	164.54	-43.0	60.7	65.1	33.5	31.61	2.060	
6,500.0	6,491.3	6,506.9	6,502.2	16.4	16.2	165.17	-46.6	68.8	69.4	37.1	32.28	2.150	
6,600.0	6,590.4	6,606.8	6,601.7	16.7	16.5	165.73	-50.3	77.0	73.7	40.7	32.97	2.234	
6,700.0	6,689.5	6,706.7	6,701.2	17.1	16.8	166.22	-54.0	85.1	77.9	44.2	33.69	2.313	
6,800.0	6,788.7	6,806.6	6,800.7	17.5	17.2	166.67	-57.7	93.2	82.2	47.8	34.43	2.388	
6,900.0	6,887.8	6,906.5	6,900.2	17.9	17.6	167.07	-61.4	101.4	86.5	51.3	35.19	2.458	
7,000.0	6,986.9	7,006.4	6,999.7	18.3	17.9	167.44	-65.1	109.5	90.8	54.8	35.97	2.523	
7,100.0	7,086.0	7,106.3	7,099.3	18.7	18.3	167.77	-68.7	117.6	95.0	58.3	36.77	2.585	
7,200.0	7,185.2	7,206.2	7,198.8	19.2	18.7	168.07	-72.4	125.8	99.3	61.7	37.59	2.643	
7,300.0	7,284.3	7,306.1	7,298.3	19.6	19.1	168.35	-76.1	133.9	103.6	65.2	38.42	2.697	
7,400.0	7,383.4	7,406.0	7,397.8	20.1	19.5	168.60	-79.8	142.1	107.9	68.6	39.28	2.748	
7,500.0	7,482.5	7,505.9	7,497.3	20.5	19.9	168.84	-83.5	150.2	112.2	72.1	40.14	2.796	
7,600.0	7,581.7	7,605.8	7,596.8	21.0	20.3	169.06	-87.1	158.3	116.5	75.5	41.02	2.841	
7,700.0	7,680.8	7,705.8	7,696.3	21.5	20.7	169.26	-90.8	166.5	120.8	78.9	41.91	2.883	
7,800.0	7,779.9	7,805.7	7,795.8	21.9	21.2	169.45	-94.5	174.6	125.1	82.3	42.81	2.922	
7,900.0	7,879.0	7,905.6	7,895.3	22.4	21.6	169.62	-98.2	182.7	129.4	85.7	43.73	2.960	
8,000.0	7,978.2	8,005.5	7,994.8	22.9	22.0	169.79	-101.9	190.9	133.7	89.1	44.65	2.995	
8,100.0	8,077.3	8,105.4	8,094.3	23.4	22.5	169.94	-105.5	199.0	138.0	92.4	45.59	3.028	
8,200.0	8,176.4	8,205.3	8,193.8	23.9	22.9	170.09	-109.2	207.1	142.3	95.8	46.53	3.059	
8,300.0	8,275.5	8,305.2	8,293.3	24.4	23.4	170.23	-112.9	215.3	146.6	99.2	47.49	3.088	
8,400.0	8,374.7	8,405.1	8,392.8	24.9	23.8	170.36	-116.6	223.4	150.9	102.5	48.45	3.116	
8,500.0	8,473.8	8,505.0	8,492.3	25.4	24.3	170.48	-120.3	231.6	155.3	105.8	49.42	3.142	
8,600.0	8,572.9	8,604.9	8,591.9	26.0	24.8	170.59	-123.9	239.7	159.6	109.2	50.39	3.166	
8,700.0	8,672.0	8,704.8	8,691.4	26.5	25.2	170.70	-127.6	247.8	163.9	112.5	51.38	3.190	
8,800.0	8,771.1	8,804.7	8,790.9	27.0	25.7	170.81	-131.3	256.0	168.2	115.8	52.37	3.212	
8,872.8	8,843.4	8,877.5	8,863.4	27.4	26.0	170.88	-134.0	261.9	171.3	118.2	53.08	3.228	
8,900.0	8,870.3	8,904.6	8,890.4	27.5	26.2	170.90	-135.0	264.1	172.4	119.1	53.34	3.233	
9,000.0	8,969.6	9,004.6	8,989.9	28.0	26.6	170.93	-138.7	272.2	175.4	121.1	54.32	3.230	
9,100.0	9,069.1	9,104.6	9,089.5	28.5	27.1	170.87	-142.3	280.4	176.7	121.4	55.28	3.196	
9,200.0	9,168.7	9,204.6	9,189.1	29.0	27.6	170.71	-146.0	288.5	176.2	120.0	56.22	3.135	
9,300.0	9,268.5	9,304.6	9,288.7	29.5	28.1	170.46	-149.7	296.7	174.0	116.9	57.12	3.047	
9,400.0	9,368.4	9,404.5	9,388.2	29.9	28.6	170.10	-153.4	304.8	170.1	112.1	57.99	2.934	
9,500.0	9,468.3	9,504.3	9,487.6	30.3	29.0	169.61	-157.1	312.9	164.5	105.7	58.80	2.798	
9,600.0	9,568.3	9,604.0	9,587.0	30.6	29.5	168.96	-160.7	321.0	157.2	97.7	59.52	2.642	
9,631.7	9,600.0	9,635.6	9,618.4	30.6	29.7	-79.49	-161.9	323.6	154.5	94.9	59.68	2.590	
9,700.0	9,668.3	9,703.6	9,686.2	30.7	30.0	-80.05	-164.4	329.2	148.6	88.7	59.96	2.479	
9,754.2	9,722.5	9,757.6	9,740.0	30.7	30.3	-80.53	-166.4	333.6	143.9	83.8	60.17	2.392	
9,775.0	9,743.3	9,778.3	9,760.5	30.7	30.4	-80.82	-167.2	335.2	142.1	81.9	60.22	2.359	

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 505H
Project:	Hat Mesa	TVD Reference:	WELL @ 3717.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3717.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 505H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 505H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 505H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 552H - Anderson Fed Com 552H - Anderson Fed Com 552H - Prelim 1													Offset Site Error: 0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,800.0	9,768.2	9,803.1	9,785.2	30.7	30.5	-82.05	-168.1	337.3	139.7	79.5	60.18	2.320	
9,825.0	9,793.0	9,827.7	9,809.7	30.6	30.6	-83.86	-169.0	339.3	137.1	77.1	60.05	2.283	
9,850.0	9,817.7	9,852.0	9,834.0	30.6	30.8	-86.25	-169.9	341.2	134.6	74.8	59.78	2.251	
9,875.0	9,842.0	9,876.1	9,857.9	30.5	30.9	-89.19	-170.8	343.2	132.2	72.9	59.35	2.228	
9,900.0	9,866.0	9,899.8	9,881.5	30.5	31.0	-92.67	-171.6	345.1	130.2	71.5	58.69	2.219	
9,925.0	9,889.7	9,923.0	9,904.7	30.5	31.1	-96.59	-172.5	347.0	128.8	71.1	57.78	2.230	
9,949.2	9,912.1	9,945.0	9,926.6	30.4	31.2	-100.71	-173.3	348.8	128.3	71.7	56.61	2.267	
9,950.0	9,912.9	9,945.7	9,927.3	30.4	31.2	-100.85	-173.3	348.9	128.3	71.8	56.56	2.269	
9,975.0	9,935.5	9,967.9	9,949.4	30.4	31.3	-105.33	-174.2	350.7	129.0	74.0	55.04	2.344	
10,000.0	9,957.6	9,989.4	9,970.8	30.3	31.4	-109.86	-174.9	352.4	131.2	77.9	53.24	2.463	
10,025.0	9,979.0	10,010.3	9,991.6	30.3	31.5	-114.30	-175.7	354.1	135.0	83.7	51.28	2.633	
10,050.0	9,999.7	10,030.4	10,011.7	30.3	31.6	-118.51	-176.5	355.8	140.7	91.4	49.27	2.856	
10,075.0	10,019.7	10,049.8	10,030.9	30.2	31.7	-122.37	-177.2	357.3	148.4	101.0	47.36	3.133	
10,100.0	10,038.9	10,068.2	10,049.3	30.2	31.8	-125.83	-177.8	358.9	158.0	112.3	45.68	3.459	
10,125.0	10,057.1	10,085.8	10,066.8	30.2	31.9	-128.83	-178.5	360.3	169.5	125.2	44.28	3.828	
10,150.0	10,074.5	10,102.4	10,083.4	30.2	32.0	-131.35	-179.1	361.6	182.8	139.6	43.20	4.231	
10,175.0	10,090.9	10,118.1	10,099.0	30.1	32.1	-133.39	-179.7	362.9	197.6	155.2	42.40	4.662	
10,200.0	10,106.3	10,132.7	10,113.5	30.1	32.1	-134.95	-180.2	364.1	214.0	172.2	41.84	5.114	
10,225.0	10,120.6	10,146.2	10,127.0	30.1	32.2	-136.02	-180.7	365.2	231.7	190.2	41.49	5.584	
10,250.0	10,133.9	10,158.6	10,139.3	30.2	32.3	-136.59	-181.2	366.2	250.5	209.2	41.28	6.068	
10,275.0	10,146.0	10,169.9	10,150.5	30.2	32.3	-136.62	-181.6	367.1	270.4	229.2	41.18	6.566	
10,300.0	10,157.0	10,180.0	10,160.6	30.2	32.4	-136.07	-181.9	367.9	291.2	250.0	41.16	7.075	
10,325.0	10,166.7	10,189.0	10,169.6	30.3	32.4	-134.85	-182.3	368.6	312.8	271.6	41.18	7.595	
10,350.0	10,175.3	10,196.7	10,177.3	30.3	32.4	-132.83	-182.5	369.2	335.0	293.8	41.24	8.124	
10,375.0	10,182.6	10,203.2	10,183.8	30.4	32.5	-129.81	-182.7	369.7	357.8	316.5	41.31	8.662	
10,400.0	10,188.7	10,208.5	10,189.0	30.4	32.5	-125.51	-182.9	370.1	381.2	339.8	41.40	9.208	
10,425.0	10,193.4	10,212.5	10,193.0	30.5	32.5	-119.52	-183.1	370.4	404.9	363.4	41.48	9.760	
10,450.0	10,196.9	10,215.2	10,195.7	30.6	32.5	-111.41	-183.1	370.6	428.9	387.3	41.57	10.316	
10,475.0	10,199.1	10,216.5	10,197.0	30.7	32.5	-100.82	-183.2	370.6	453.1	411.4	41.66	10.877	
10,500.0	10,200.0	10,216.6	10,197.1	30.8	32.5	-87.94	-183.2	370.7	477.5	435.7	41.74	11.440	
10,504.2	10,200.0	10,216.5	10,197.0	30.9	32.5	-85.60	-183.2	370.6	481.6	439.8	41.75	11.535	
10,600.0	10,200.0	10,213.2	10,193.7	31.4	32.5	-83.86	-183.1	370.4	575.4	533.4	42.03	13.691	
10,700.0	10,200.0	10,209.8	10,190.3	32.0	32.5	-82.03	-183.0	370.2	674.0	631.7	42.29	15.937	
10,800.0	10,200.0	10,206.3	10,186.9	32.8	32.5	-80.20	-182.8	369.9	772.9	730.4	42.52	18.179	
10,900.0	10,200.0	10,202.8	10,183.3	33.7	32.5	-78.38	-182.7	369.6	872.1	829.3	42.71	20.416	
11,000.0	10,200.0	10,199.2	10,179.8	34.6	32.5	-76.56	-182.6	369.4	971.4	928.5	42.89	22.648	

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 505H
Project:	Hat Mesa	TVD Reference:	WELL @ 3717.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3717.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 505H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 505H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 505H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 601H - Anderson Fed Com 601H - Anderson Fed Com 601H - Prelim 1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	6.0	6.0	0.0	0.0	-90.68	-0.8	-66.0	66.0				
100.0	100.0	106.0	106.0	0.5	0.6	-90.68	-0.8	-66.0	66.0	64.9	1.13	58.373	
200.0	200.0	206.0	206.0	1.7	1.8	-90.68	-0.8	-66.0	66.0	62.6	3.47	19.054	
300.0	300.0	306.0	306.0	2.4	2.4	-90.68	-0.8	-66.0	66.0	61.2	4.86	13.599	
400.0	400.0	406.0	406.0	3.0	3.0	-90.68	-0.8	-66.0	66.0	60.1	5.94	11.125	
500.0	500.0	506.0	506.0	3.4	3.4	-90.68	-0.8	-66.0	66.0	59.2	6.85	9.633	
600.0	600.0	606.0	606.0	3.8	3.8	-90.68	-0.8	-66.0	66.0	58.4	7.67	8.608	
700.0	700.0	706.0	706.0	4.2	4.2	-90.68	-0.8	-66.0	66.0	57.6	8.41	7.847	
800.0	800.0	806.0	806.0	4.5	4.6	-90.68	-0.8	-66.0	66.0	56.9	9.10	7.254	
900.0	900.0	906.0	906.0	4.9	4.9	-90.68	-0.8	-66.0	66.0	56.3	9.75	6.774	
1,000.0	1,000.0	1,006.0	1,006.0	5.2	5.2	-90.68	-0.8	-66.0	66.0	55.7	10.36	6.375	
1,100.0	1,100.0	1,106.0	1,106.0	5.5	5.5	-90.68	-0.8	-66.0	66.0	55.1	10.94	6.036	
1,200.0	1,200.0	1,206.0	1,206.0	5.7	5.8	-90.68	-0.8	-66.0	66.0	54.5	11.50	5.744	
1,300.0	1,300.0	1,306.0	1,306.0	6.0	6.0	-90.68	-0.8	-66.0	66.0	54.0	12.03	5.489	
1,400.0	1,400.0	1,406.0	1,406.0	6.3	6.3	-90.68	-0.8	-66.0	66.0	53.5	12.55	5.263	
1,500.0	1,500.0	1,506.0	1,506.0	6.5	6.5	-90.68	-0.8	-66.0	66.0	53.0	13.05	5.061	
1,600.0	1,600.0	1,606.0	1,606.0	6.8	6.8	-90.68	-0.8	-66.0	66.0	52.5	13.53	4.880	
1,700.0	1,700.0	1,706.0	1,706.0	7.0	7.0	-90.68	-0.8	-66.0	66.0	52.0	14.00	4.716	
1,800.0	1,800.0	1,806.0	1,806.0	7.2	7.2	-90.68	-0.8	-66.0	66.0	51.6	14.46	4.566	
1,900.0	1,900.0	1,906.0	1,906.0	7.4	7.5	-90.68	-0.8	-66.0	66.0	51.1	14.91	4.428	
2,000.0	2,000.0	2,006.0	2,006.0	7.7	7.7	-90.68	-0.8	-66.0	66.0	50.7	15.35	4.301	
2,100.0	2,100.0	2,106.0	2,106.0	7.9	7.9	-90.68	-0.8	-66.0	66.0	50.2	15.78	4.184	
2,200.0	2,200.0	2,206.0	2,206.0	8.1	8.1	-90.68	-0.8	-66.0	66.0	49.8	16.21	4.075	
2,300.0	2,300.0	2,306.0	2,306.0	8.3	8.3	-90.68	-0.8	-66.0	66.0	49.4	16.62	3.973	
2,400.0	2,400.0	2,406.0	2,406.0	8.5	8.5	-90.68	-0.8	-66.0	66.0	49.0	17.03	3.878	
2,500.0	2,500.0	2,506.0	2,506.0	8.7	8.7	-90.68	-0.8	-66.0	66.0	48.6	17.43	3.789	
2,600.0	2,600.0	2,606.0	2,606.0	8.9	8.9	-90.68	-0.8	-66.0	66.0	48.2	17.82	3.705	
2,700.0	2,700.0	2,706.0	2,706.0	9.1	9.1	-90.68	-0.8	-66.0	66.0	47.8	18.21	3.625	
2,800.0	2,800.0	2,806.0	2,806.0	9.3	9.3	-90.68	-0.8	-66.0	66.0	47.4	18.60	3.551	
2,900.0	2,900.0	2,906.0	2,906.0	9.5	9.5	-90.68	-0.8	-66.0	66.0	47.1	18.98	3.480	
3,000.0	3,000.0	3,006.0	3,006.0	9.7	9.7	-90.68	-0.8	-66.0	66.0	46.7	19.35	3.412	
3,100.0	3,100.0	3,106.0	3,106.0	9.9	9.9	-90.68	-0.8	-66.0	66.0	46.3	19.72	3.348	
3,200.0	3,200.0	3,206.0	3,206.0	10.0	10.0	-90.68	-0.8	-66.0	66.0	45.9	20.09	3.288	
3,300.0	3,300.0	3,306.0	3,306.0	10.2	10.2	-90.68	-0.8	-66.0	66.0	45.6	20.45	3.229	
3,400.0	3,400.0	3,406.0	3,406.0	10.4	10.4	-90.68	-0.8	-66.0	66.0	45.2	20.80	3.174	
3,500.0	3,500.0	3,506.0	3,506.0	10.6	10.6	-90.68	-0.8	-66.0	66.0	44.9	21.16	3.121	
3,600.0	3,600.0	3,606.0	3,606.0	10.7	10.8	-90.68	-0.8	-66.0	66.0	44.5	21.51	3.070	
3,700.0	3,700.0	3,706.0	3,706.0	10.9	10.9	-90.68	-0.8	-66.0	66.0	44.2	21.86	3.021	
3,800.0	3,800.0	3,806.0	3,806.0	11.1	11.1	-90.68	-0.8	-66.0	66.0	43.8	22.20	2.974	
3,900.0	3,900.0	3,906.0	3,906.0	11.3	11.3	-90.68	-0.8	-66.0	66.0	43.5	22.54	2.929	
4,000.0	4,000.0	4,006.0	4,006.0	11.4	11.4	-90.68	-0.8	-66.0	66.0	43.2	22.88	2.886	
4,100.0	4,100.0	4,106.0	4,106.0	11.6	11.6	-90.68	-0.8	-66.0	66.0	42.8	23.22	2.844	
4,200.0	4,200.0	4,206.0	4,206.0	11.8	11.8	-90.68	-0.8	-66.0	66.0	42.5	23.55	2.804	
4,300.0	4,300.0	4,306.0	4,306.0	11.9	11.9	-90.68	-0.8	-66.0	66.0	42.2	23.88	2.765	
4,400.0	4,400.0	4,406.0	4,406.0	12.1	12.1	-90.68	-0.8	-66.0	66.0	41.8	24.21	2.728	
4,500.0	4,500.0	4,506.0	4,506.0	12.3	12.3	-90.68	-0.8	-66.0	66.0	41.5	24.54	2.691	
4,600.0	4,600.0	4,606.0	4,606.0	12.4	12.4	-90.68	-0.8	-66.0	66.0	41.2	24.86	2.656	
4,700.0	4,700.0	4,706.0	4,706.0	12.6	12.6	-90.68	-0.8	-66.0	66.0	40.9	25.18	2.622	
4,800.0	4,800.0	4,806.0	4,806.0	12.7	12.8	-90.68	-0.8	-66.0	66.0	40.5	25.50	2.589	
4,900.0	4,900.0	4,906.0	4,906.0	12.9	12.9	-90.68	-0.8	-66.0	66.0	40.2	25.82	2.558	
5,000.0	5,000.0	5,006.0	5,006.0	13.1	13.1	-90.68	-0.8	-66.0	66.0	39.9	26.13	2.527 CC, ES, SF	
5,100.0	5,100.0	5,106.0	5,106.0	13.2	13.2	157.80	-0.8	-66.0	66.8	40.4	26.40	2.532	

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 505H
Project:	Hat Mesa	TVD Reference:	WELL @ 3717.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3717.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 505H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 505H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 505H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 601H - Anderson Fed Com 601H - Anderson Fed Com 601H - Prelim 1													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
Reference	Offset	Reference	Offset	Reference	Offset	Highside Toolface			Distance				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			
5,200.0	5,200.0	5,206.0	5,206.0	13.3	13.4	158.61	-0.8	-66.0	69.3	42.6	26.65	2.599			
5,300.0	5,299.9	5,305.9	5,305.9	13.4	13.5	159.84	-0.8	-66.0	73.3	46.4	26.92	2.724			
5,400.0	5,399.7	5,405.7	5,405.7	13.5	13.7	161.34	-0.8	-66.0	79.1	51.9	27.21	2.908			
5,500.0	5,499.4	5,505.4	5,505.4	13.7	13.8	162.98	-0.8	-66.0	86.6	59.1	27.51	3.147			
5,600.0	5,598.9	5,604.8	5,604.8	13.9	14.0	164.63	-0.8	-66.0	95.8	68.0	27.84	3.441			
5,700.0	5,698.3	5,703.0	5,703.0	14.1	14.1	165.83	-1.4	-66.7	107.4	79.3	28.13	3.818			
5,758.9	5,756.6	5,760.5	5,760.5	14.2	14.1	166.22	-2.2	-67.8	115.5	87.3	28.27	4.087			
5,800.0	5,797.4	5,800.0	5,800.0	14.2	14.2	166.37	-3.0	-68.7	121.7	93.3	28.36	4.290			
5,900.0	5,896.5	5,897.9	5,897.8	14.5	14.3	166.32	-5.7	-72.0	137.4	108.7	28.67	4.792			
6,000.0	5,995.7	5,995.6	5,995.2	14.7	14.3	165.85	-9.4	-76.4	154.1	125.2	28.96	5.323			
6,100.0	6,094.8	6,094.1	6,093.6	15.0	14.4	165.41	-13.3	-81.1	171.1	141.8	29.31	5.836			
6,200.0	6,193.9	6,192.6	6,192.0	15.3	14.6	165.04	-17.2	-85.8	188.0	158.3	29.71	6.329			
6,300.0	6,293.0	6,291.2	6,290.3	15.7	14.7	164.73	-21.1	-90.4	205.0	174.9	30.13	6.803			
6,400.0	6,392.2	6,389.7	6,388.7	16.0	14.9	164.47	-25.0	-95.1	221.9	191.4	30.57	7.259			
6,500.0	6,491.3	6,488.3	6,487.0	16.4	15.1	164.25	-28.9	-99.8	238.9	207.9	31.04	7.697			
6,600.0	6,590.4	6,586.8	6,585.4	16.7	15.3	164.05	-32.8	-104.5	255.9	224.3	31.53	8.116			
6,700.0	6,689.5	6,685.4	6,683.8	17.1	15.5	163.89	-36.7	-109.1	272.8	240.8	32.04	8.516			
6,800.0	6,788.7	6,783.9	6,782.1	17.5	15.7	163.74	-40.6	-113.8	289.8	257.2	32.56	8.900			
6,900.0	6,887.8	6,882.5	6,880.5	17.9	15.9	163.60	-44.5	-118.5	306.8	273.7	33.11	9.265			
7,000.0	6,986.9	6,981.0	6,978.8	18.3	16.2	163.48	-48.4	-123.2	323.8	290.1	33.67	9.614			
7,100.0	7,086.0	7,079.6	7,077.2	18.7	16.5	163.38	-52.3	-127.9	340.7	306.5	34.26	9.947			
7,200.0	7,185.2	7,178.1	7,175.5	19.2	16.7	163.28	-56.2	-132.5	357.7	322.9	34.85	10.264			
7,300.0	7,284.3	7,276.7	7,273.9	19.6	17.0	163.19	-60.1	-137.2	374.7	339.2	35.46	10.566			
7,400.0	7,383.4	7,375.2	7,372.3	20.1	17.3	163.11	-64.0	-141.9	391.7	355.6	36.09	10.853			
7,500.0	7,482.5	7,473.8	7,470.6	20.5	17.6	163.04	-67.9	-146.6	408.6	371.9	36.73	11.126			
7,600.0	7,581.7	7,572.3	7,569.0	21.0	17.9	162.97	-71.8	-151.3	425.6	388.2	37.38	11.386			
7,700.0	7,680.8	7,670.8	7,667.3	21.5	18.2	162.91	-75.7	-155.9	442.6	404.6	38.04	11.634			
7,800.0	7,779.9	7,769.4	7,765.7	21.9	18.5	162.85	-79.6	-160.6	459.6	420.9	38.72	11.869			
7,900.0	7,879.0	7,867.9	7,864.1	22.4	18.9	162.79	-83.5	-165.3	476.6	437.2	39.41	12.093			
8,000.0	7,978.2	7,966.5	7,962.4	22.9	19.2	162.74	-87.4	-170.0	493.6	453.4	40.11	12.306			
8,100.0	8,077.3	8,065.0	8,060.8	23.4	19.5	162.70	-91.3	-174.6	510.5	469.7	40.81	12.509			
8,200.0	8,176.4	8,163.6	8,159.1	23.9	19.9	162.65	-95.2	-179.3	527.5	486.0	41.53	12.702			
8,300.0	8,275.5	8,262.1	8,257.5	24.4	20.2	162.61	-99.1	-184.0	544.5	502.2	42.26	12.886			
8,400.0	8,374.7	8,360.7	8,355.8	24.9	20.6	162.57	-103.0	-188.7	561.5	518.5	42.99	13.060			
8,500.0	8,473.8	8,459.2	8,454.2	25.4	21.0	162.54	-106.9	-193.4	578.5	534.7	43.73	13.227			
8,600.0	8,572.9	8,557.8	8,552.6	26.0	21.3	162.50	-110.8	-198.0	595.5	551.0	44.49	13.385			
8,700.0	8,672.0	8,656.3	8,650.9	26.5	21.7	162.47	-114.7	-202.7	612.4	567.2	45.24	13.536			
8,800.0	8,771.1	8,754.9	8,749.3	27.0	22.1	162.44	-118.6	-207.4	629.4	583.4	46.01	13.680			
8,872.8	8,843.4	8,826.6	8,820.9	27.4	22.4	162.42	-121.4	-210.8	641.8	595.2	46.56	13.785			
8,900.0	8,870.3	8,853.4	8,847.6	27.5	22.5	162.42	-122.5	-212.1	646.3	599.6	46.76	13.823			
9,000.0	8,969.6	8,952.2	8,946.2	28.0	22.9	162.41	-126.4	-216.8	662.1	614.5	47.52	13.933			
9,100.0	9,069.1	9,051.2	9,045.0	28.5	23.3	162.35	-130.3	-221.5	676.1	627.9	48.28	14.005			
9,200.0	9,168.7	9,150.4	9,144.0	29.0	23.7	162.24	-134.2	-226.2	688.6	639.5	49.02	14.046			
9,300.0	9,268.5	9,249.8	9,243.2	29.5	24.1	162.09	-138.2	-230.9	699.3	649.6	49.75	14.057			
9,400.0	9,368.4	9,349.3	9,342.6	29.9	24.5	161.89	-142.1	-235.6	708.5	658.0	50.46	14.041			
9,500.0	9,468.3	9,449.0	9,442.1	30.3	24.9	161.65	-146.1	-240.4	716.0	664.9	51.13	14.002			
9,600.0	9,568.3	9,548.7	9,541.6	30.6	25.3	161.37	-150.0	-245.1	721.9	670.1	51.75	13.949			
9,631.7	9,600.0	9,580.4	9,573.2	30.6	25.4	-86.93	-151.3	-246.6	723.4	671.5	51.89	13.941			
9,700.0	9,668.3	9,648.5	9,641.2	30.7	25.7	-87.15	-154.0	-249.8	726.5	674.3	52.13	13.935			
9,754.2	9,722.5	9,702.7	9,695.3	30.7	26.0	-87.33	-156.1	-252.4	728.9	676.6	52.33	13.930			
9,775.0	9,743.3	9,723.4	9,715.9	30.7	26.0	-87.02	-156.9	-253.4	729.9	677.5	52.40	13.929			
9,800.0	9,768.2	9,748.2	9,740.7	30.7	26.1	-87.11	-157.9	-254.6	730.9	678.4	52.48	13.927			

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 505H
Project:	Hat Mesa	TVD Reference:	WELL @ 3717.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3717.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 505H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 505H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 505H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 601H - Anderson Fed Com 601H - Anderson Fed Com 601H - Prelim 1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,825.0	9,793.0	9,772.8	9,765.3	30.6	26.2	-87.31	-158.9	-255.7	731.9	679.4	52.57	13.923	
9,850.0	9,817.7	9,797.2	9,789.7	30.6	26.4	-87.60	-159.8	-256.9	732.9	680.3	52.66	13.919	
9,875.0	9,842.0	9,821.3	9,813.7	30.5	26.5	-87.98	-160.8	-258.0	733.9	681.1	52.75	13.913	
9,900.0	9,866.0	9,845.0	9,837.4	30.5	26.6	-88.44	-161.7	-259.2	734.9	682.0	52.84	13.907	
9,925.0	9,889.7	9,868.3	9,860.6	30.5	26.7	-88.97	-162.6	-260.3	735.9	683.0	52.94	13.902	
9,950.0	9,912.9	9,891.1	9,883.3	30.4	26.8	-89.56	-163.5	-261.3	737.1	684.1	53.03	13.899	
9,975.0	9,935.5	9,913.3	9,905.5	30.4	26.8	-90.19	-164.4	-262.4	738.4	685.3	53.13	13.897	
10,000.0	9,957.6	9,934.8	9,927.0	30.3	26.9	-90.85	-165.3	-263.4	739.9	686.7	53.23	13.900	
10,025.0	9,979.0	9,955.7	9,947.8	30.3	27.0	-91.52	-166.1	-264.4	741.7	688.4	53.33	13.907	
10,050.0	9,999.7	9,975.9	9,967.9	30.3	27.1	-92.19	-166.9	-265.4	743.8	690.3	53.43	13.921	
10,075.0	10,019.7	9,995.2	9,987.2	30.2	27.2	-92.84	-167.7	-266.3	746.2	692.7	53.52	13.942	
10,100.0	10,038.9	10,013.7	10,005.7	30.2	27.3	-93.45	-168.4	-267.2	749.0	695.4	53.61	13.972	
10,125.0	10,057.1	10,031.3	10,023.2	30.2	27.4	-94.00	-169.1	-268.0	752.3	698.6	53.69	14.012	
10,150.0	10,074.5	10,047.9	10,039.8	30.2	27.4	-94.48	-169.8	-268.8	756.2	702.4	53.77	14.064	
10,175.0	10,090.9	10,063.5	10,055.4	30.1	27.5	-94.88	-170.4	-269.5	760.5	706.7	53.83	14.129	
10,200.0	10,106.3	10,078.1	10,070.0	30.1	27.6	-95.17	-170.9	-270.2	765.5	711.6	53.88	14.208	
10,225.0	10,120.6	10,091.6	10,083.5	30.1	27.6	-95.34	-171.5	-270.9	771.1	717.2	53.92	14.302	
10,250.0	10,133.9	10,104.0	10,095.8	30.2	27.7	-95.38	-172.0	-271.4	777.4	723.5	53.94	14.413	
10,275.0	10,146.0	10,115.2	10,107.1	30.2	27.7	-95.27	-172.4	-272.0	784.4	730.4	53.95	14.540	
10,300.0	10,157.0	10,125.3	10,117.1	30.2	27.8	-95.00	-172.8	-272.5	792.1	738.1	53.94	14.685	
10,325.0	10,166.7	10,134.1	10,125.9	30.3	27.8	-94.57	-173.2	-272.9	800.4	746.5	53.91	14.848	
10,350.0	10,175.3	10,141.8	10,133.5	30.3	27.8	-93.95	-173.5	-273.2	809.5	755.6	53.86	15.029	
10,375.0	10,182.6	10,148.1	10,139.9	30.4	27.9	-93.15	-173.7	-273.5	819.3	765.5	53.80	15.229	
10,400.0	10,188.7	10,153.2	10,145.0	30.4	27.9	-92.15	-173.9	-273.8	829.7	776.0	53.71	15.446	
10,425.0	10,193.4	10,157.0	10,148.7	30.5	27.9	-90.96	-174.1	-274.0	840.7	787.1	53.61	15.682	
10,450.0	10,196.9	10,159.5	10,151.2	30.6	27.9	-89.57	-174.2	-274.1	852.4	798.9	53.49	15.934	
10,475.0	10,199.1	10,160.7	10,152.4	30.7	27.9	-87.99	-174.2	-274.1	864.6	811.2	53.36	16.203	
10,500.0	10,200.0	10,160.6	10,152.3	30.8	27.9	-86.21	-174.2	-274.1	877.3	824.1	53.21	16.488	
10,504.2	10,200.0	10,160.5	10,152.2	30.9	27.9	-85.89	-174.2	-274.1	879.5	826.3	53.18	16.538	
10,600.0	10,200.0	10,156.7	10,148.4	31.4	27.9	-85.60	-174.1	-274.0	932.9	880.3	52.56	17.749	
10,700.0	10,200.0	10,152.8	10,144.5	32.0	27.9	-85.30	-173.9	-273.8	995.5	943.5	51.92	19.173	



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 505H
Project:	Hat Mesa	TVD Reference:	WELL @ 3717.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3717.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 505H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 505H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 505H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 701H - Anderson Fed Com 701H - Anderson Fed Com 701H - Prelim 1											Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM											Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Rule Assigned:	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
0.0	0.0	7.0	7.0	0.0	0.0	-90.74	-2.1	-165.1	165.1			
100.0	100.0	107.0	107.0	0.5	0.6	-90.74	-2.1	-165.1	165.1	163.9	1.14	144.426
200.0	200.0	207.0	207.0	1.7	1.8	-90.74	-2.1	-165.1	165.1	161.6	3.47	47.539
300.0	300.0	307.0	307.0	2.4	2.4	-90.74	-2.1	-165.1	165.1	160.2	4.86	33.961
400.0	400.0	407.0	407.0	3.0	3.0	-90.74	-2.1	-165.1	165.1	159.1	5.94	27.790
500.0	500.0	507.0	507.0	3.4	3.4	-90.74	-2.1	-165.1	165.1	158.2	6.86	24.068
600.0	600.0	607.0	607.0	3.8	3.9	-90.74	-2.1	-165.1	165.1	157.4	7.67	21.510
700.0	700.0	707.0	707.0	4.2	4.2	-90.74	-2.1	-165.1	165.1	156.7	8.42	19.610
800.0	800.0	807.0	807.0	4.5	4.6	-90.74	-2.1	-165.1	165.1	156.0	9.11	18.128
900.0	900.0	907.0	907.0	4.9	4.9	-90.74	-2.1	-165.1	165.1	155.3	9.75	16.929
1,000.0	1,000.0	1,007.0	1,007.0	5.2	5.2	-90.74	-2.1	-165.1	165.1	154.7	10.36	15.932
1,100.0	1,100.0	1,107.0	1,107.0	5.5	5.5	-90.74	-2.1	-165.1	165.1	154.1	10.94	15.086
1,200.0	1,200.0	1,207.0	1,207.0	5.7	5.8	-90.74	-2.1	-165.1	165.1	153.6	11.50	14.357
1,300.0	1,300.0	1,307.0	1,307.0	6.0	6.0	-90.74	-2.1	-165.1	165.1	153.0	12.03	13.719
1,400.0	1,400.0	1,407.0	1,407.0	6.3	6.3	-90.74	-2.1	-165.1	165.1	152.5	12.55	13.155
1,500.0	1,500.0	1,507.0	1,507.0	6.5	6.5	-90.74	-2.1	-165.1	165.1	152.0	13.05	12.651
1,600.0	1,600.0	1,607.0	1,607.0	6.8	6.8	-90.74	-2.1	-165.1	165.1	151.5	13.53	12.198
1,700.0	1,700.0	1,707.0	1,707.0	7.0	7.0	-90.74	-2.1	-165.1	165.1	151.1	14.01	11.787
1,800.0	1,800.0	1,807.0	1,807.0	7.2	7.2	-90.74	-2.1	-165.1	165.1	150.6	14.47	11.412
1,900.0	1,900.0	1,907.0	1,907.0	7.4	7.5	-90.74	-2.1	-165.1	165.1	150.2	14.91	11.068
2,000.0	2,000.0	2,007.0	2,007.0	7.7	7.7	-90.74	-2.1	-165.1	165.1	149.7	15.35	10.751
2,100.0	2,100.0	2,107.0	2,107.0	7.9	7.9	-90.74	-2.1	-165.1	165.1	149.3	15.78	10.458
2,200.0	2,200.0	2,207.0	2,207.0	8.1	8.1	-90.74	-2.1	-165.1	165.1	148.9	16.21	10.186
2,300.0	2,300.0	2,307.0	2,307.0	8.3	8.3	-90.74	-2.1	-165.1	165.1	148.5	16.62	9.931
2,400.0	2,400.0	2,407.0	2,407.0	8.5	8.5	-90.74	-2.1	-165.1	165.1	148.1	17.03	9.694
2,500.0	2,500.0	2,507.0	2,507.0	8.7	8.7	-90.74	-2.1	-165.1	165.1	147.7	17.43	9.471
2,600.0	2,600.0	2,607.0	2,607.0	8.9	8.9	-90.74	-2.1	-165.1	165.1	147.3	17.83	9.261
2,700.0	2,700.0	2,707.0	2,707.0	9.1	9.1	-90.74	-2.1	-165.1	165.1	146.9	18.22	9.063
2,800.0	2,800.0	2,807.0	2,807.0	9.3	9.3	-90.74	-2.1	-165.1	165.1	146.5	18.60	8.876
2,900.0	2,900.0	2,907.0	2,907.0	9.5	9.5	-90.74	-2.1	-165.1	165.1	146.1	18.98	8.699
3,000.0	3,000.0	3,007.0	3,007.0	9.7	9.7	-90.74	-2.1	-165.1	165.1	145.7	19.35	8.530
3,100.0	3,100.0	3,107.0	3,107.0	9.9	9.9	-90.74	-2.1	-165.1	165.1	145.4	19.72	8.370
3,200.0	3,200.0	3,207.0	3,207.0	10.0	10.0	-90.74	-2.1	-165.1	165.1	145.0	20.09	8.218
3,300.0	3,300.0	3,307.0	3,307.0	10.2	10.2	-90.74	-2.1	-165.1	165.1	144.6	20.45	8.073
3,400.0	3,400.0	3,407.0	3,407.0	10.4	10.4	-90.74	-2.1	-165.1	165.1	144.3	20.81	7.934
3,500.0	3,500.0	3,507.0	3,507.0	10.6	10.6	-90.74	-2.1	-165.1	165.1	143.9	21.16	7.801
3,600.0	3,600.0	3,607.0	3,607.0	10.7	10.8	-90.74	-2.1	-165.1	165.1	143.6	21.51	7.674
3,700.0	3,700.0	3,707.0	3,707.0	10.9	10.9	-90.74	-2.1	-165.1	165.1	143.2	21.86	7.552
3,800.0	3,800.0	3,807.0	3,807.0	11.1	11.1	-90.74	-2.1	-165.1	165.1	142.9	22.20	7.435
3,900.0	3,900.0	3,907.0	3,907.0	11.3	11.3	-90.74	-2.1	-165.1	165.1	142.5	22.54	7.323
4,000.0	4,000.0	4,007.0	4,007.0	11.4	11.4	-90.74	-2.1	-165.1	165.1	142.2	22.88	7.214
4,100.0	4,100.0	4,107.0	4,107.0	11.6	11.6	-90.74	-2.1	-165.1	165.1	141.9	23.22	7.110
4,200.0	4,200.0	4,207.0	4,207.0	11.8	11.8	-90.74	-2.1	-165.1	165.1	141.5	23.55	7.009
4,300.0	4,300.0	4,307.0	4,307.0	11.9	11.9	-90.74	-2.1	-165.1	165.1	141.2	23.88	6.912
4,400.0	4,400.0	4,407.0	4,407.0	12.1	12.1	-90.74	-2.1	-165.1	165.1	140.9	24.21	6.819
4,500.0	4,500.0	4,507.0	4,507.0	12.3	12.3	-90.74	-2.1	-165.1	165.1	140.5	24.54	6.728
4,600.0	4,600.0	4,607.0	4,607.0	12.4	12.4	-90.74	-2.1	-165.1	165.1	140.2	24.86	6.640
4,700.0	4,700.0	4,707.0	4,707.0	12.6	12.6	-90.74	-2.1	-165.1	165.1	139.9	25.18	6.555
4,800.0	4,800.0	4,807.0	4,807.0	12.7	12.8	-90.74	-2.1	-165.1	165.1	139.6	25.50	6.473
4,900.0	4,900.0	4,907.0	4,907.0	12.9	12.9	-90.74	-2.1	-165.1	165.1	139.3	25.82	6.394
4,914.2	4,914.2	4,921.2	4,921.2	12.9	12.9	-90.74	-2.1	-165.1	165.1	139.2	25.86	6.382 CC
5,000.0	5,000.0	5,006.8	5,006.8	13.1	13.1	-90.75	-2.1	-165.1	165.1	139.0	26.13	6.317 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 505H
Project:	Hat Mesa	TVD Reference:	WELL @ 3717.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3717.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 505H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 505H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 505H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 701H - Anderson Fed Com 701H - Anderson Fed Com 701H - Prelim 1													Offset Site Error: 0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,100.0	5,100.0	5,104.5	5,104.5	13.2	13.2	157.37	-2.7	-165.8	166.7	140.4	26.33	6.330	
5,200.0	5,200.0	5,202.1	5,202.0	13.3	13.3	157.18	-4.2	-167.9	171.3	144.8	26.51	6.461	
5,300.0	5,299.9	5,300.0	5,299.9	13.4	13.4	156.89	-6.8	-171.4	178.9	152.2	26.72	6.696	
5,400.0	5,399.7	5,396.2	5,395.9	13.5	13.5	156.54	-10.2	-176.1	189.5	162.5	26.94	7.032	
5,500.0	5,499.4	5,492.5	5,491.9	13.7	13.6	156.14	-14.6	-182.2	203.0	175.8	27.20	7.464	
5,600.0	5,598.9	5,590.6	5,589.6	13.9	13.7	155.78	-19.7	-189.2	219.1	191.7	27.47	7.977	
5,700.0	5,698.3	5,689.0	5,687.6	14.1	13.9	155.63	-24.9	-196.4	236.8	209.0	27.80	8.518	
5,758.9	5,756.6	5,746.8	5,745.2	14.2	14.0	155.62	-27.9	-200.5	248.0	220.0	28.00	8.858	
5,800.0	5,797.4	5,787.2	5,785.4	14.2	14.1	155.66	-30.1	-203.5	256.0	227.9	28.13	9.101	
5,900.0	5,896.5	5,885.3	5,883.1	14.5	14.3	155.76	-35.2	-210.6	275.4	246.9	28.52	9.655	
6,000.0	5,995.7	5,983.4	5,980.8	14.7	14.6	155.85	-40.4	-217.7	294.8	265.8	28.96	10.180	
6,100.0	6,094.8	6,081.5	6,078.5	15.0	14.8	155.92	-45.5	-224.7	314.2	284.8	29.42	10.679	
6,200.0	6,193.9	6,179.6	6,176.2	15.3	15.1	155.98	-50.7	-231.8	333.6	303.7	29.91	11.152	
6,300.0	6,293.0	6,277.7	6,273.9	15.7	15.4	156.04	-55.9	-238.9	353.0	322.6	30.43	11.600	
6,400.0	6,392.2	6,375.8	6,371.6	16.0	15.7	156.10	-61.0	-246.0	372.4	341.4	30.98	12.023	
6,500.0	6,491.3	6,473.9	6,469.3	16.4	16.0	156.14	-66.2	-253.1	391.8	360.3	31.54	12.422	
6,600.0	6,590.4	6,572.0	6,567.0	16.7	16.3	156.18	-71.4	-260.2	411.2	379.1	32.13	12.798	
6,700.0	6,689.5	6,670.1	6,664.7	17.1	16.6	156.22	-76.5	-267.3	430.6	397.9	32.74	13.152	
6,800.0	6,788.7	6,768.2	6,762.4	17.5	16.9	156.26	-81.7	-274.4	450.1	416.7	33.37	13.485	
6,900.0	6,887.8	6,866.3	6,860.2	17.9	17.3	156.29	-86.8	-281.5	469.5	435.4	34.02	13.798	
7,000.0	6,986.9	6,964.4	6,957.9	18.3	17.6	156.32	-92.0	-288.6	488.9	454.2	34.69	14.093	
7,100.0	7,086.0	7,062.5	7,055.6	18.7	18.0	156.35	-97.2	-295.7	508.3	472.9	35.37	14.369	
7,200.0	7,185.2	7,160.6	7,153.3	19.2	18.4	156.37	-102.3	-302.8	527.7	491.6	36.07	14.628	
7,300.0	7,284.3	7,258.7	7,251.0	19.6	18.8	156.40	-107.5	-309.9	547.1	510.3	36.79	14.872	
7,400.0	7,383.4	7,356.8	7,348.7	20.1	19.2	156.42	-112.6	-317.0	566.5	529.0	37.52	15.101	
7,500.0	7,482.5	7,454.8	7,446.4	20.5	19.6	156.44	-117.8	-324.1	585.9	547.7	38.26	15.315	
7,600.0	7,581.7	7,552.9	7,544.1	21.0	20.0	156.46	-123.0	-331.2	605.3	566.3	39.01	15.517	
7,700.0	7,680.8	7,651.0	7,641.8	21.5	20.4	156.48	-128.1	-338.3	624.7	585.0	39.78	15.706	
7,800.0	7,779.9	7,749.1	7,739.5	21.9	20.8	156.50	-133.3	-345.4	644.2	603.6	40.55	15.884	
7,900.0	7,879.0	7,847.2	7,837.2	22.4	21.2	156.51	-138.4	-352.5	663.6	622.2	41.34	16.051	
8,000.0	7,978.2	7,945.3	7,934.9	22.9	21.6	156.53	-143.6	-359.6	683.0	640.8	42.14	16.207	
8,100.0	8,077.3	8,043.4	8,032.6	23.4	22.1	156.54	-148.8	-366.7	702.4	659.4	42.95	16.355	
8,200.0	8,176.4	8,141.5	8,130.3	23.9	22.5	156.55	-153.9	-373.8	721.8	678.0	43.76	16.494	
8,300.0	8,275.5	8,239.6	8,228.0	24.4	22.9	156.57	-159.1	-380.9	741.2	696.6	44.59	16.624	
8,400.0	8,374.7	8,337.7	8,325.7	24.9	23.4	156.58	-164.2	-388.0	760.6	715.2	45.42	16.747	
8,500.0	8,473.8	8,435.8	8,423.4	25.4	23.8	156.59	-169.4	-395.1	780.0	733.8	46.26	16.863	
8,600.0	8,572.9	8,533.9	8,521.1	26.0	24.3	156.60	-174.6	-402.1	799.4	752.3	47.10	16.972	
8,700.0	8,672.0	8,632.0	8,618.8	26.5	24.7	156.61	-179.7	-409.2	818.8	770.9	47.96	17.074	
8,800.0	8,771.1	8,730.1	8,716.5	27.0	25.2	156.62	-184.9	-416.3	838.3	789.4	48.82	17.171	
8,872.8	8,843.4	8,801.6	8,787.7	27.4	25.5	156.63	-188.6	-421.5	852.4	803.0	49.44	17.242	
8,900.0	8,870.3	8,832.0	8,818.0	27.5	25.6	156.65	-190.2	-423.6	857.6	807.9	49.68	17.262	
9,000.0	8,969.6	8,944.5	8,930.2	28.0	26.2	156.76	-195.1	-430.4	874.5	823.9	50.59	17.287	
9,100.0	9,069.1	9,057.9	9,043.4	28.5	26.6	156.88	-198.8	-435.4	888.3	836.8	51.47	17.260	
9,200.0	9,168.7	9,171.9	9,157.4	29.0	27.1	157.01	-201.1	-438.6	898.9	846.6	52.29	17.191	
9,300.0	9,268.5	9,286.4	9,271.8	29.5	27.4	157.17	-202.1	-440.0	906.2	853.2	53.02	17.094	
9,400.0	9,368.4	9,389.9	9,375.4	29.9	27.5	157.31	-202.1	-440.1	910.8	857.3	53.50	17.026	
9,500.0	9,468.3	9,490.4	9,475.7	30.3	27.5	157.58	-199.2	-440.1	913.7	859.9	53.87	16.962	
9,600.0	9,568.3	9,586.8	9,569.8	30.6	27.2	158.89	-178.9	-440.2	915.2	861.1	54.10	16.916	
9,631.7	9,600.0	9,615.3	9,596.6	30.6	27.2	-88.70	-169.3	-440.3	915.6	861.5	54.11	16.921	
9,700.0	9,668.3	9,672.2	9,648.3	30.7	27.0	-87.21	-145.4	-440.4	916.9	862.9	54.05	16.963	
9,754.2	9,722.5	9,712.8	9,683.2	30.7	26.9	-85.92	-124.7	-440.6	919.1	865.1	54.00	17.020	
9,775.0	9,743.3	9,727.5	9,695.4	30.7	26.9	-84.99	-116.5	-440.6	920.2	866.2	53.97	17.050	

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 505H
Project:	Hat Mesa	TVD Reference:	WELL @ 3717.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3717.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 505H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 505H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 505H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 701H - Anderson Fed Com 701H - Anderson Fed Com 701H - Prelim 1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM				Rule Assigned:									Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre			Distance		Separation Factor	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)			
9,800.0	9,768.2	9,745.0	9,709.5	30.7	26.8	-84.25	-106.3	-440.7	921.6	867.7	53.93	17.089		
9,825.0	9,793.0	9,762.2	9,723.1	30.6	26.8	-83.50	-95.7	-440.7	923.3	869.4	53.89	17.131		
9,850.0	9,817.7	9,779.3	9,736.2	30.6	26.8	-82.77	-84.7	-440.8	925.0	871.1	53.85	17.176		
9,875.0	9,842.0	9,796.1	9,748.7	30.5	26.7	-82.04	-73.4	-440.9	926.9	873.0	53.81	17.223		
9,900.0	9,866.0	9,812.9	9,760.7	30.5	26.7	-81.33	-61.8	-441.0	928.8	875.0	53.78	17.271		
9,925.0	9,889.7	9,829.4	9,772.2	30.5	26.7	-80.63	-49.8	-441.0	930.8	877.1	53.75	17.319		
9,950.0	9,912.9	9,845.8	9,783.2	30.4	26.7	-79.94	-37.6	-441.1	932.9	879.2	53.72	17.367		
9,975.0	9,935.5	9,862.1	9,793.6	30.4	26.6	-79.27	-25.1	-441.2	935.0	881.3	53.70	17.413		
10,000.0	9,957.6	9,875.0	9,801.6	30.3	26.6	-78.70	-15.0	-441.3	937.2	883.5	53.68	17.458		
10,025.0	9,979.0	9,894.4	9,813.0	30.3	26.6	-77.99	0.6	-441.4	939.3	885.7	53.67	17.503		
10,050.0	9,999.7	9,910.3	9,822.0	30.3	26.6	-77.38	13.8	-441.4	941.5	887.8	53.66	17.544		
10,075.0	10,019.7	9,925.0	9,829.9	30.2	26.6	-76.82	26.2	-441.5	943.6	889.9	53.67	17.582		
10,100.0	10,038.9	9,942.0	9,838.5	30.2	26.6	-76.24	40.9	-441.6	945.7	892.0	53.68	17.617		
10,125.0	10,057.1	9,957.8	9,846.0	30.2	26.6	-75.70	54.7	-441.7	947.8	894.1	53.70	17.648		
10,150.0	10,074.5	9,975.0	9,853.7	30.2	26.6	-75.17	70.1	-441.8	949.8	896.0	53.73	17.676		
10,175.0	10,090.9	9,989.0	9,859.5	30.1	26.6	-74.72	82.9	-441.9	951.7	897.9	53.78	17.697		
10,200.0	10,106.3	10,004.6	9,865.5	30.1	26.7	-74.27	97.2	-442.0	953.5	899.7	53.82	17.715		
10,225.0	10,120.6	10,020.0	9,871.1	30.1	26.7	-73.85	111.7	-442.1	955.2	901.4	53.89	17.727		
10,250.0	10,133.9	10,035.5	9,876.1	30.2	26.7	-73.47	126.3	-442.2	956.9	902.9	53.96	17.734		
10,275.0	10,146.0	10,050.0	9,880.5	30.2	26.7	-73.12	140.1	-442.2	958.4	904.4	54.03	17.737		
10,300.0	10,157.0	10,066.3	9,884.8	30.2	26.8	-72.79	155.8	-442.3	959.8	905.7	54.13	17.732		
10,325.0	10,166.7	10,081.6	9,888.4	30.3	26.8	-72.50	170.7	-442.4	961.0	906.8	54.23	17.723		
10,350.0	10,175.3	10,100.0	9,892.1	30.3	26.9	-72.23	188.7	-442.6	962.2	907.8	54.34	17.706		
10,375.0	10,182.6	10,112.2	9,894.1	30.4	26.9	-72.03	200.7	-442.6	963.2	908.7	54.46	17.686		
10,400.0	10,188.7	10,125.0	9,896.0	30.4	26.9	-71.86	213.4	-442.7	964.0	909.4	54.58	17.662		
10,425.0	10,193.4	10,142.7	9,897.9	30.5	27.0	-71.70	231.0	-442.8	964.7	909.9	54.73	17.627		
10,450.0	10,196.9	10,157.9	9,899.1	30.6	27.1	-71.59	246.2	-442.9	965.2	910.3	54.88	17.589		
10,475.0	10,199.1	10,175.0	9,899.8	30.7	27.1	-71.50	263.2	-443.0	965.5	910.5	55.04	17.543		
10,500.0	10,200.0	10,189.2	9,900.0	30.8	27.2	-71.47	277.4	-443.1	965.7	910.5	55.20	17.495		
10,504.2	10,200.0	10,193.4	9,900.0	30.9	27.2	-71.46	281.6	-443.1	965.8	910.5	55.24	17.484		
10,600.0	10,200.0	10,289.2	9,900.0	31.4	27.7	-71.47	377.4	-443.8	965.9	909.7	56.19	17.189		
10,700.0	10,200.0	10,389.2	9,900.0	32.0	28.4	-71.47	477.4	-444.4	966.0	908.5	57.43	16.819		
10,800.0	10,200.0	10,489.2	9,900.0	32.8	29.2	-71.47	577.4	-445.0	966.1	907.2	58.90	16.401		
10,900.0	10,200.0	10,589.2	9,900.0	33.7	30.0	-71.47	677.4	-445.7	966.2	905.6	60.58	15.948		
11,000.0	10,200.0	10,689.2	9,900.0	34.6	31.0	-71.48	777.4	-446.3	966.3	903.8	62.46	15.471		
11,100.0	10,200.0	10,789.2	9,900.0	35.6	32.1	-71.48	877.4	-446.9	966.4	901.9	64.51	14.980		
11,200.0	10,200.0	10,889.2	9,900.0	36.7	33.3	-71.48	977.4	-447.6	966.5	899.8	66.72	14.485		
11,300.0	10,200.0	10,989.2	9,900.0	37.9	34.5	-71.48	1,077.4	-448.2	966.6	897.5	69.08	13.991		
11,400.0	10,200.0	11,089.2	9,900.0	39.1	35.8	-71.48	1,177.4	-448.8	966.7	895.1	71.58	13.506		
11,500.0	10,200.0	11,189.2	9,900.0	40.4	37.2	-71.49	1,277.4	-449.5	966.8	892.6	74.19	13.031		
11,600.0	10,200.0	11,289.2	9,900.0	41.8	38.7	-71.49	1,377.4	-450.1	966.9	890.0	76.91	12.572		
11,700.0	10,200.0	11,389.2	9,900.0	43.2	40.2	-71.49	1,477.4	-450.7	967.0	887.3	79.73	12.129		
11,800.0	10,200.0	11,489.2	9,900.0	44.6	41.7	-71.49	1,577.4	-451.4	967.1	884.5	82.63	11.704		
11,900.0	10,200.0	11,589.2	9,900.0	46.1	43.3	-71.49	1,677.4	-452.0	967.2	881.6	85.61	11.298		
12,000.0	10,200.0	11,689.2	9,900.0	47.7	44.9	-71.50	1,777.4	-452.7	967.3	878.7	88.66	10.910		
12,100.0	10,200.0	11,789.2	9,900.0	49.2	46.6	-71.50	1,877.4	-453.3	967.4	875.7	91.77	10.541		
12,200.0	10,200.0	11,889.2	9,900.0	50.8	48.3	-71.50	1,977.4	-453.9	967.5	872.6	94.95	10.190		
12,300.0	10,200.0	11,989.2	9,900.0	52.4	50.0	-71.50	2,077.4	-454.6	967.6	869.5	98.17	9.857		
12,400.0	10,200.0	12,089.2	9,900.0	54.1	51.7	-71.50	2,177.4	-455.2	967.7	866.3	101.44	9.540		
12,500.0	10,200.0	12,189.2	9,900.0	55.8	53.5	-71.51	2,277.4	-455.8	967.8	863.1	104.75	9.239		
12,600.0	10,200.0	12,289.2	9,900.0	57.5	55.2	-71.51	2,377.4	-456.5	968.0	859.8	108.10	8.954		
12,700.0	10,200.0	12,389.2	9,900.0	59.2	57.0	-71.51	2,477.4	-457.1	968.1	856.6	111.49	8.683		

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 505H
Project:	Hat Mesa	TVD Reference:	WELL @ 3717.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3717.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 505H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 505H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 505H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 701H - Anderson Fed Com 701H - Anderson Fed Com 701H - Prelim 1													Offset Site Error: 0.0 usft	
Survey Program: 0-MWD+HRGM				Rule Assigned:									Offset Well Error: 0.0 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
12,800.0	10,200.0	12,489.2	9,900.0	60.9	58.8	-71.51	2,577.3	-457.7	968.2	853.3	114.91	8.426		
12,900.0	10,200.0	12,589.2	9,900.0	62.7	60.7	-71.51	2,677.3	-458.4	968.3	849.9	118.35	8.181		
13,000.0	10,200.0	12,689.2	9,900.0	64.4	62.5	-71.52	2,777.3	-459.0	968.4	846.5	121.83	7.949		
13,100.0	10,200.0	12,789.2	9,900.0	66.2	64.3	-71.52	2,877.3	-459.6	968.5	843.2	125.32	7.728		
13,200.0	10,200.0	12,889.2	9,900.0	68.0	66.2	-71.52	2,977.3	-460.3	968.6	839.7	128.84	7.518		
13,300.0	10,200.0	12,989.2	9,900.0	69.8	68.1	-71.52	3,077.3	-460.9	968.7	836.3	132.38	7.317		
13,400.0	10,200.0	13,089.2	9,900.0	71.6	69.9	-71.53	3,177.3	-461.6	968.8	832.8	135.94	7.126		
13,500.0	10,200.0	13,189.2	9,900.0	73.5	71.8	-71.53	3,277.3	-462.2	968.9	829.4	139.52	6.944		
13,600.0	10,200.0	13,289.2	9,900.0	75.3	73.7	-71.53	3,377.3	-462.8	969.0	825.9	143.12	6.771		
13,700.0	10,200.0	13,389.2	9,900.0	77.1	75.6	-71.53	3,477.3	-463.5	969.1	822.4	146.72	6.605		
13,800.0	10,200.0	13,489.2	9,900.0	79.0	77.5	-71.53	3,577.3	-464.1	969.2	818.9	150.35	6.447		
13,900.0	10,200.0	13,589.2	9,900.0	80.9	79.4	-71.54	3,677.3	-464.7	969.3	815.3	153.98	6.295		
14,000.0	10,200.0	13,689.2	9,900.0	82.7	81.3	-71.54	3,777.3	-465.4	969.4	811.8	157.63	6.150		
14,100.0	10,200.0	13,789.2	9,900.0	84.6	83.2	-71.54	3,877.3	-466.0	969.5	808.2	161.29	6.011		
14,200.0	10,200.0	13,889.2	9,900.0	86.5	85.1	-71.54	3,977.3	-466.6	969.6	804.7	164.96	5.878		
14,300.0	10,200.0	13,989.2	9,900.0	88.4	87.1	-71.54	4,077.3	-467.3	969.7	801.1	168.64	5.750		
14,400.0	10,200.0	14,089.2	9,900.0	90.3	89.0	-71.55	4,177.3	-467.9	969.8	797.5	172.33	5.628		
14,500.0	10,200.0	14,189.2	9,900.0	92.2	90.9	-71.55	4,277.3	-468.5	969.9	793.9	176.02	5.510		
14,600.0	10,200.0	14,289.2	9,900.0	94.1	92.9	-71.55	4,377.3	-469.2	970.1	790.3	179.73	5.397		
14,700.0	10,200.0	14,389.2	9,900.0	96.0	94.8	-71.55	4,477.3	-469.8	970.2	786.7	183.44	5.289		
14,800.0	10,200.0	14,489.2	9,900.0	97.9	96.8	-71.55	4,577.3	-470.5	970.3	783.1	187.16	5.184		
14,900.0	10,200.0	14,589.2	9,900.0	99.8	98.7	-71.56	4,677.3	-471.1	970.4	779.5	190.89	5.083		
15,000.0	10,200.0	14,689.2	9,900.0	101.7	100.7	-71.56	4,777.3	-471.7	970.5	775.9	194.62	4.986		
15,100.0	10,200.0	14,789.2	9,900.0	103.7	102.6	-71.56	4,877.3	-472.4	970.6	772.2	198.36	4.893		
15,200.0	10,200.0	14,889.2	9,900.0	105.6	104.6	-71.56	4,977.3	-473.0	970.7	768.6	202.11	4.803		
15,300.0	10,200.0	14,989.2	9,900.0	107.5	106.5	-71.56	5,077.3	-473.6	970.8	764.9	205.86	4.716		
15,400.0	10,200.0	15,089.2	9,900.0	109.5	108.5	-71.57	5,177.3	-474.3	970.9	761.3	209.61	4.632		
15,500.0	10,200.0	15,189.2	9,900.0	111.4	110.4	-71.57	5,277.3	-474.9	971.0	757.6	213.37	4.551		
15,600.0	10,200.0	15,289.2	9,900.0	113.3	112.4	-71.57	5,377.3	-475.5	971.1	754.0	217.14	4.472		
15,700.0	10,200.0	15,389.2	9,900.0	115.3	114.4	-71.57	5,477.3	-476.2	971.2	750.3	220.91	4.396		
15,800.0	10,200.0	15,489.2	9,900.0	117.2	116.3	-71.57	5,577.3	-476.8	971.3	746.6	224.68	4.323		
15,900.0	10,200.0	15,589.2	9,900.0	119.2	118.3	-71.58	5,677.3	-477.4	971.4	743.0	228.46	4.252		
16,000.0	10,200.0	15,689.2	9,900.0	121.1	120.3	-71.58	5,777.3	-478.1	971.5	739.3	232.24	4.183		
16,100.0	10,200.0	15,789.2	9,900.0	123.1	122.2	-71.58	5,877.3	-478.7	971.6	735.6	236.02	4.117		
16,200.0	10,200.0	15,889.2	9,900.0	125.0	124.2	-71.58	5,977.3	-479.4	971.7	731.9	239.81	4.052		
16,300.0	10,200.0	15,989.2	9,900.0	127.0	126.2	-71.59	6,077.3	-480.0	971.8	728.2	243.60	3.989		
16,400.0	10,200.0	16,089.2	9,900.0	129.0	128.2	-71.59	6,177.3	-480.6	971.9	724.6	247.40	3.929		
16,500.0	10,200.0	16,189.2	9,900.0	130.9	130.1	-71.59	6,277.3	-481.3	972.1	720.9	251.19	3.870		
16,600.0	10,200.0	16,289.2	9,900.0	132.9	132.1	-71.59	6,377.3	-481.9	972.2	717.2	254.99	3.812		
16,700.0	10,200.0	16,389.2	9,900.0	134.8	134.1	-71.59	6,477.3	-482.5	972.3	713.5	258.79	3.757		
16,800.0	10,200.0	16,489.2	9,900.0	136.8	136.1	-71.60	6,577.3	-483.2	972.4	709.8	262.60	3.703		
16,900.0	10,200.0	16,589.2	9,900.0	138.8	138.1	-71.60	6,677.3	-483.8	972.5	706.1	266.41	3.650		
17,000.0	10,200.0	16,689.2	9,900.0	140.7	140.1	-71.60	6,777.3	-484.4	972.6	702.4	270.22	3.599		
17,100.0	10,200.0	16,789.2	9,900.0	142.7	142.0	-71.60	6,877.3	-485.1	972.7	698.7	274.03	3.550		
17,200.0	10,200.0	16,889.2	9,900.0	144.7	144.0	-71.60	6,977.3	-485.7	972.8	694.9	277.84	3.501		
17,300.0	10,200.0	16,989.2	9,900.0	146.6	146.0	-71.61	7,077.3	-486.3	972.9	691.2	281.66	3.454		
17,400.0	10,200.0	17,089.2	9,900.0	148.6	148.0	-71.61	7,177.3	-487.0	973.0	687.5	285.48	3.408		
17,500.0	10,200.0	17,189.2	9,900.0	150.6	150.0	-71.61	7,277.3	-487.6	973.1	683.8	289.30	3.364		
17,600.0	10,200.0	17,289.2	9,900.0	152.6	152.0	-71.61	7,377.2	-488.3	973.2	680.1	293.12	3.320		
17,700.0	10,200.0	17,389.2	9,900.0	154.5	154.0	-71.61	7,477.2	-488.9	973.3	676.4	296.95	3.278		
17,800.0	10,200.0	17,489.2	9,900.0	156.5	155.9	-71.62	7,577.2	-489.5	973.4	672.6	300.77	3.236		
17,900.0	10,200.0	17,589.2	9,900.0	158.5	157.9	-71.62	7,677.2	-490.2	973.5	668.9	304.60	3.196		

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 505H
Project:	Hat Mesa	TVD Reference:	WELL @ 3717.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3717.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 505H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 505H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 505H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 701H - Anderson Fed Com 701H - Anderson Fed Com 701H - Prelim 1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance				Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
18,000.0	10,200.0	17,689.2	9,900.0	160.5	159.9	-71.62	7,777.2	-490.8	973.6	665.2	308.43	3.157		
18,100.0	10,200.0	17,789.2	9,900.0	162.5	161.9	-71.62	7,877.2	-491.4	973.7	661.5	312.26	3.118		
18,200.0	10,200.0	17,889.2	9,900.0	164.4	163.9	-71.62	7,977.2	-492.1	973.8	657.7	316.09	3.081		
18,226.2	10,200.0	17,910.6	9,900.0	165.0	164.3	-71.62	7,998.7	-492.2	973.9	656.9	317.01	3.072 SF		

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

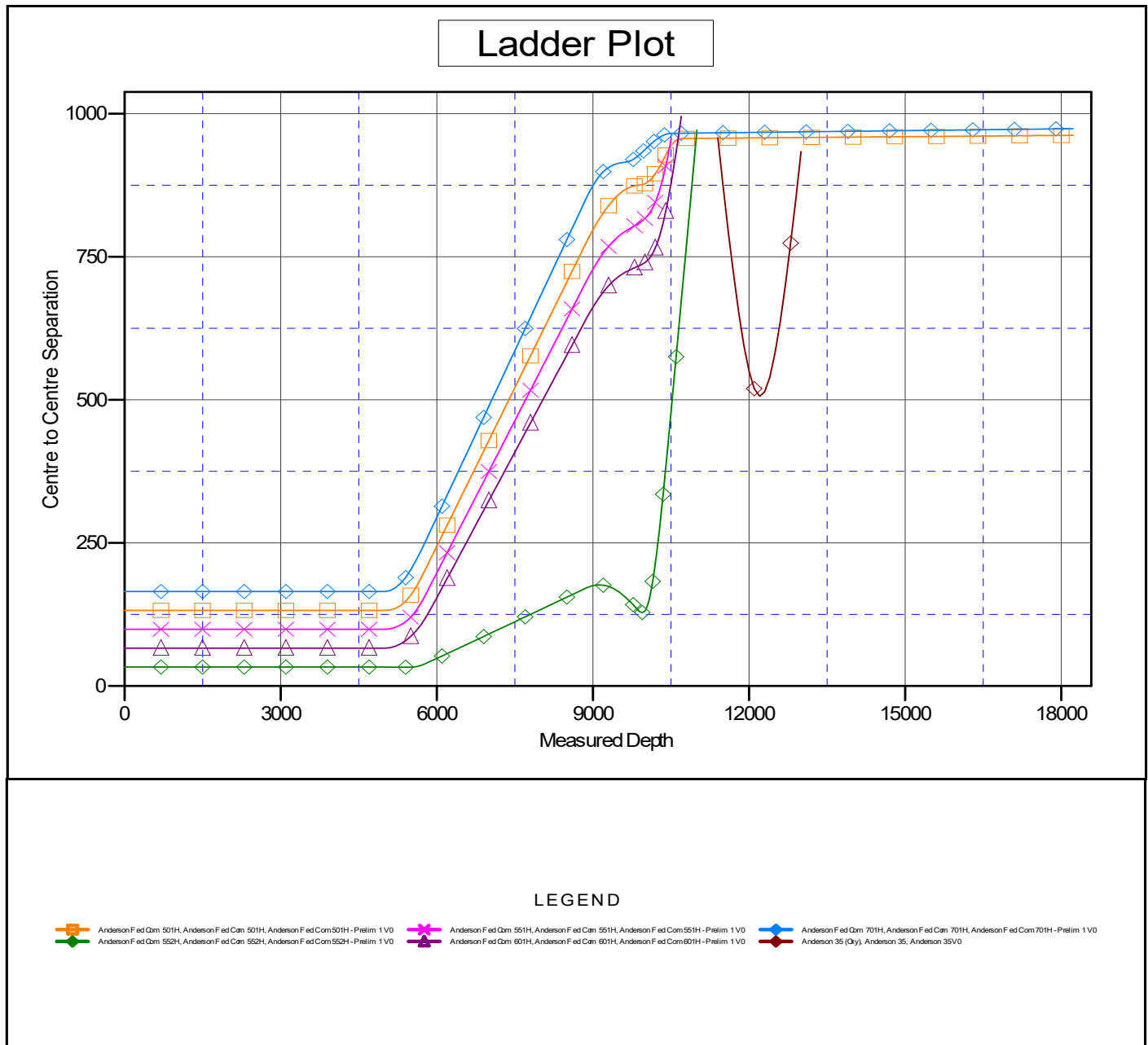


Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 505H
Project:	Hat Mesa	TVD Reference:	WELL @ 3717.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3717.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 505H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 505H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 505H - Prelim 1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 3717.5usft (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 505H
 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 505H
Project:	Hat Mesa	TVD Reference:	WELL @ 3717.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3717.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 505H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 505H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 505H - Prelim 1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 3717.5usft (Original Well Ele

Offset Depths are relative to Offset Datum

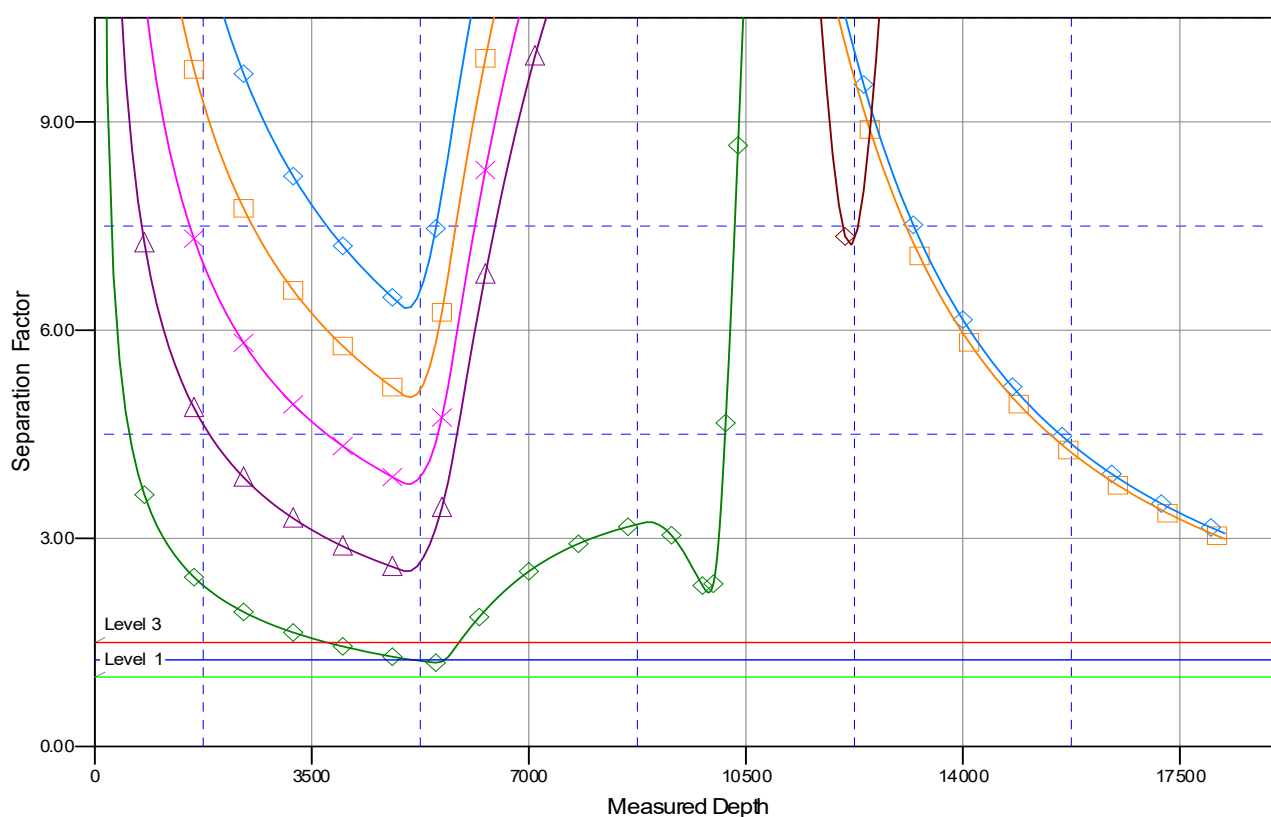
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Anderson Fed Com 505H

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 501H, Anderson Fed Com 501H, Anderson Fed Com 501H - Prelim 1 V0
 ✱ Anderson Fed Com 551H, Anderson Fed Com 551H, Anderson Fed Com 551H - Prelim 1 V0
 ◆ Anderson Fed Com 701H, Anderson Fed Com 701H, Anderson Fed Com 701H - Prelim 1 V0
◆ Anderson Fed Com 552H, Anderson Fed Com 552H, Anderson Fed Com 552H - Prelim 1 V0
 ✱ Anderson Fed Com 601H, Anderson Fed Com 601H, Anderson Fed Com 601H - Prelim 1 V0
 ◆ Anderson 35 (Qry), Anderson 35, Anderson 35V0

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

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

CONDITIONS

Action 62836

CONDITIONS

Operator: ADVANCE ENERGY PARTNERS HAT MESA, LLC 11490 Westheimer Rd., Ste 950 Houston, TX 77077	OGRID: 372417
	Action Number: 62836
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	11/19/2021