

Well Name: ANDERSON FED COM	Well Location: T22S / R32E / SEC 2 / LOT 3 /	County or Parish/State:
Well Number: 553H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM120905	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002548997	Well Status: Approved Application for Permit to Drill	Operator: ADVANCE ENERGY PARTNERS HAT MESA LLC

Notice of Intent

Type of Submission: Notice of Intent	Type of Action Other
Date Sundry Submitted: 08/06/2021	Time Sundry Submitted: 11:28
Date proposed operation will begin: 08/13/2021	

Procedure Description: Request to move Bottom Hole Location from 1220' FSL & 1650' FWL, Section 26, T-21-S, R-32-E, SESW to 1220' FSL & 1254' FWL, Section 26, T-21-S, R-32-E, SWSW. 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_553H_BHL_etc_Sundry_Attachment_20210806112606.pdf

Well Name: ANDERSON FED COM	Well Location: T22S / R32E / SEC 2 / LOT 3 /	County or Parish/State:
Well Number: 553H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM120905	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002548997	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: AUG 06, 2021 11:26 AM
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 Phone: 5752342234
Disposition: Approved
Signature: Chris Walls
BLM POC Title: Petroleum Engineer
BLM POC Email Address: cwalls@blm.gov
Disposition Date: 08/09/2021

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) 476-3480 Fax: (505) 476-3482

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 30-025-48997	Pool Code 51683	Pool Name Red Tank; Bone Spring
Property Code 326484	Property Name ANDERSON FED COM	Well Number 553H
OGRID No. 372417	Operator Name ADVANCE ENERGY PARTNERS HAT MESA, LLC	Elevation 3672'

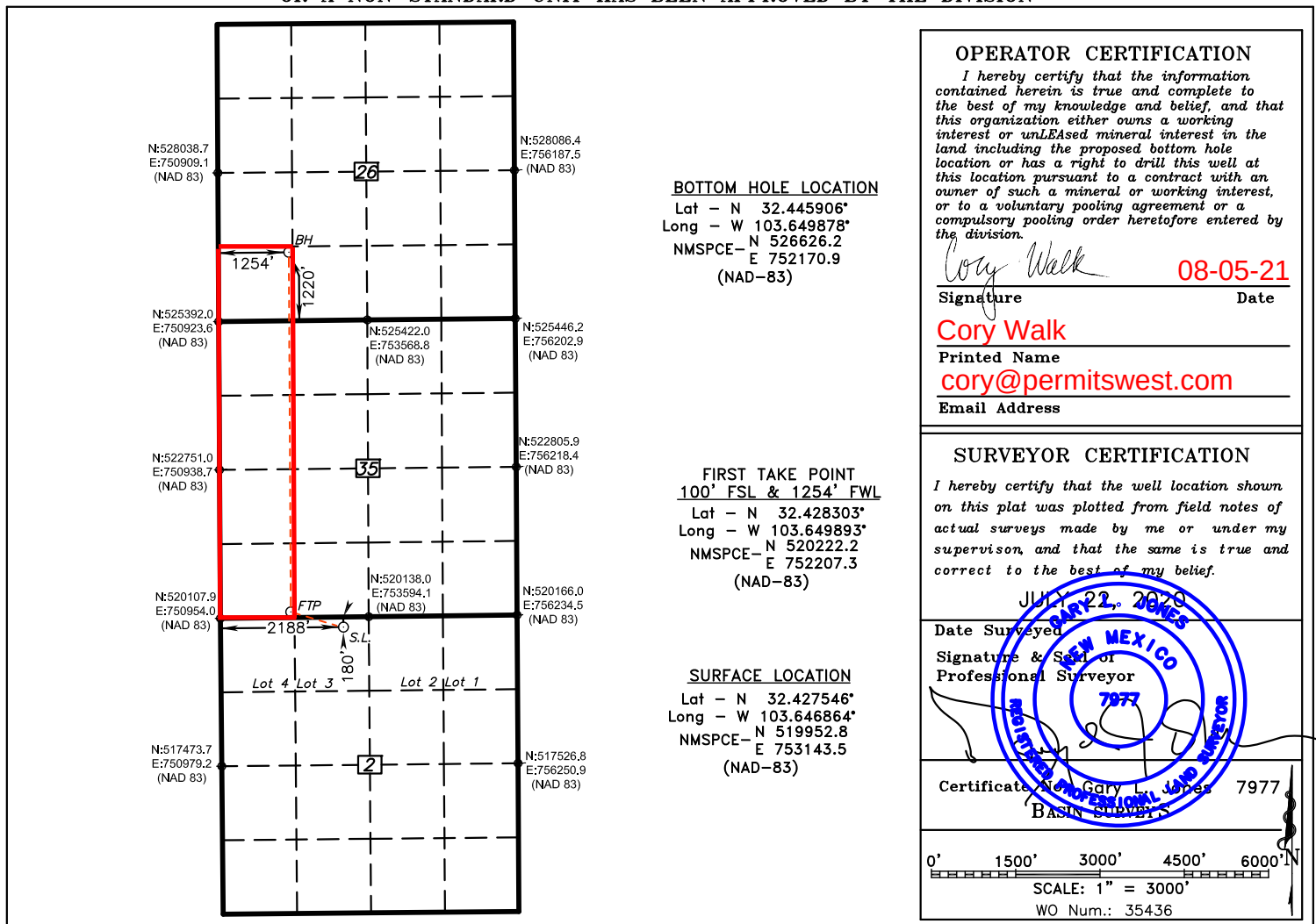
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	SOUTH/South line	Feet from the	East/West line	County
LOT 3	2	22 S	32 E		180	NORTH	2188	WEST	LEA

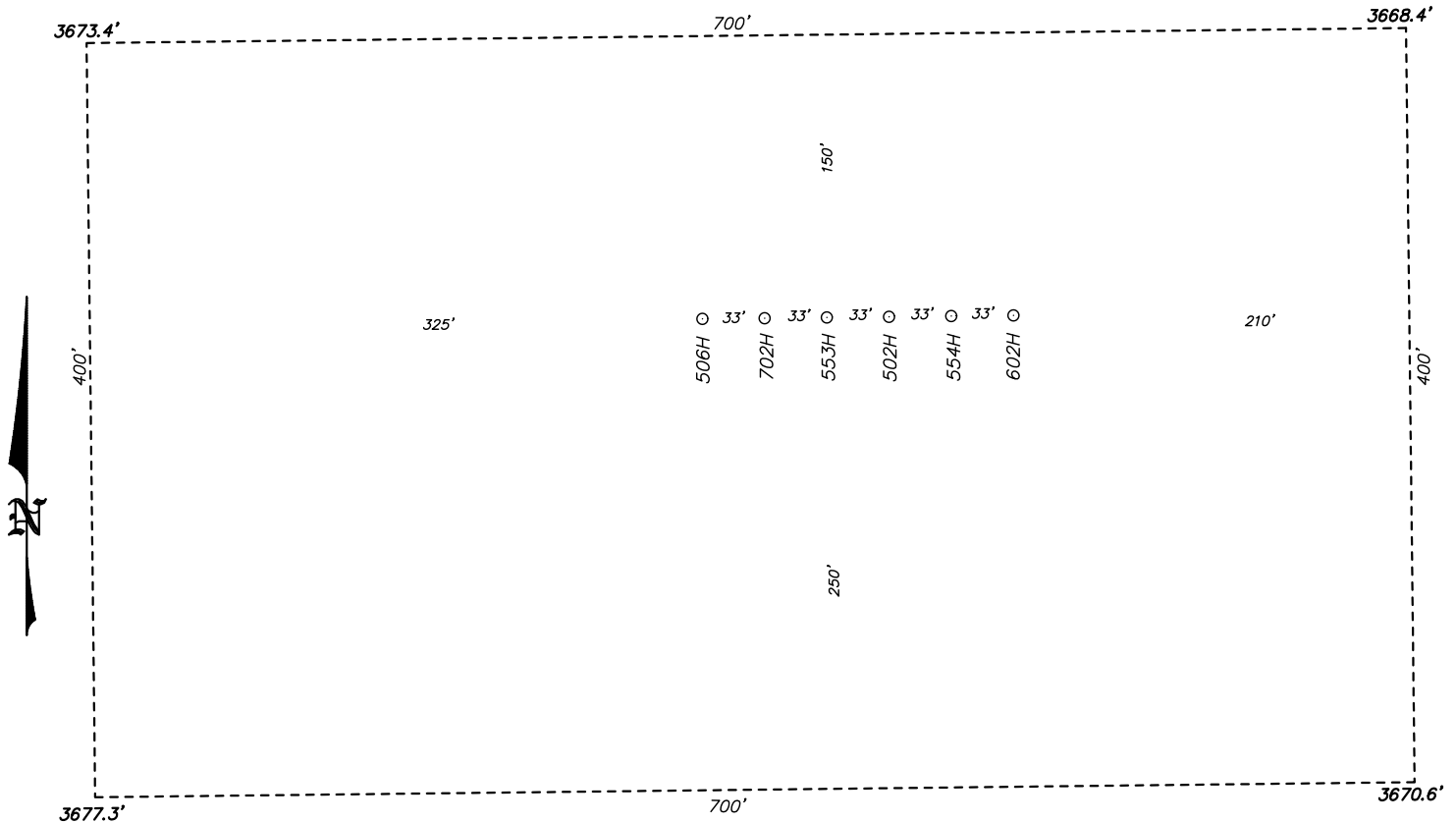
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	SOUTH/South line	Feet from the	East/West line	County
M	26	21 S	32 E		1220	SOUTH	1254	WEST	LEA
Dedicated Acres 200	Joint or Infill	Consolidation Code C	Order No.						

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



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



basin
surveys
focused on excellence
in the oilfield

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

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

ADVANCE ENERGY PARTNERS HAT MESA, LLC

REF: ANDERSON FED COM 553H / WELL PAD TOPO

THE ANDERSON FED COM 553H LOCATED 180' FROM
THE NORTH LINE AND 2188' FROM THE WEST LINE OF
SECTION 2, TOWNSHIP 22 SOUTH, RANGE 32 EAST.

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

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

Move First Take Point

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

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

Move Bottom Hole Location

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

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

Target Formation

From: Third Bone Spring

To: Second Bone Spring

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

Advance Energy Partners Hat Mesa, LLC
 Anderson Fed Com 553H
 SHL 180' FNL & 2188' FWL Sec. 2, T. 22 S., R. 32 E.
 BHL 1220' FSL & 1254' FWL Sec. 26, T 21 S., R. 32 E.
 Lea County, NM

DRILL PLAN PAGE 1

"Anderson Fed Com Pad C"

Drilling Program

1. ESTIMATED TOPS

Formation	TVD	MD	Bearing
Quaternary caliche	000'	000'	water
Rustler anhydrite (surf. casing set @ 1232')	1207'	1207'	N/A
Top salt	1262'	1262'	N/A
Tansil limestone (int. casing set @ 4734')	3297'	3297'	hydrocarbons
Bell Canyon limestone	4784'	4784'	hydrocarbons
Cherry Canyon sandstone	5682'	5682'	hydrocarbons
Lower Brushy Canyon sandstone	8431'	8443'	hydrocarbons
Avalon shale	8951'	8965'	hydrocarbons
1 st Bone Spring sandstone	9819'	9836'	hydrocarbons
(KOP	10151'	10162'	hydrocarbons)
2 nd Bone Spring sandstone	10407'	10456'	hydrocarbons
TD	10840'	17704'	hydrocarbons

2. NOTABLE ZONES

Second Bone is the goal. Closest water well (CP 01701 POD 1) is 0.53-mile northwest. Water bearing strata were reported at 560' in this 840' deep well.

3. PRESSURE CONTROL

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

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

Advance Energy Partners Hat Mesa, LLC

DRILL PLAN PAGE 2

Anderson Fed Com 553H

SHL 180' FNL & 2188' FWL Sec. 2, T. 22 S., R. 32 E.

BHL 1220' FSL & 1254' FWL Sec. 26, T 21 S., R. 32 E.

Lea County, NM

"Anderson Fed Com Pad C"

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

4. CASING & CEMENT

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

Hole OD	Set MD	Set TVD	Casing O. D.	Weight (lb/ft)	Grade	Joint	Collapse	Burst	Tension
17.5"	0' - 1232'	0' - 1232'	Surface 13.375"	54.5	J-55	BTC	1.125	1.125	1.6
12.25"	0' - 4000'	0' - 4000'	Intermed. 9.625"	40	J-55	LTC	1.125	1.125	1.6
12.25"	4000' - 4734'	4000' - 4734'	Intermed. 9.625"	40	HCL-80	LTC	1.125	1.125	1.6
8.5"	0' - 17704'	0' - 10840'	Product. 5.5"	20	HCP-110	CDC-HTQ	1.125	1.125	1.6

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

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

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

Advance Energy Partners Hat Mesa, LLC

DRILL PLAN PAGE 3

Anderson Fed Com 553H

SHL 180' FNL & 2188' FWL Sec. 2, T. 22 S., R. 32 E.

BHL 1220' FSL & 1254' FWL Sec. 26, T 21 S., R. 32 E.

Lea County, NM

"Anderson Fed Com Pad C"

Name	Type	Top MD	Sacks	Yield	Cu. Ft	Weight	Excess	Cement	Additives
Surface	Lead	0	510	1.9	969	12.8	50%	B Poz + C	6% Gel + 5% SALT + 0.25PPS Pol-E-Flake + 0.005GPS NoFoam V1A
	Tail	932	215	1.35	290	14.8	20%	C	2% CaCl ₂ + 0.005GPS NoFoam V1A
1st Intermediate (stage 1)	Lead	2800	1380	1.84	2539	12.8	662%	B Poz + C	2% Gel + 5% SALT + 0.15% R-1300 + 0.25PPS Pol-E-Flake + 0.005GPS NoFoam V1A
	Tail	3787	275	1.37	377	14.8	20%	C	5% SALT + 0.005GPS NoFoam V1A
1st Intermediate (stage 2)	Lead	0	460	3.00	1380	11	153%	ProLite	5PPS Plexcrete STE + 2% SMS + 0.05% SuspendaCem 6302 + 0.5% C-47B + 3PPS Gilsonite + 0.005GPS NoFoam V1A
	Tail	2395	100	1.33	133	14.8	0%	C	0.005GPS NoFoam V1A
Production	Lead	0	915	3.39	3102	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	10162	1715	1.22	2092	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.

Advance Energy Partners Hat Mesa, LLC

DRILL PLAN PAGE 4

Anderson Fed Com 553H

SHL 180' FNL & 2188' FWL Sec. 2, T. 22 S., R. 32 E.

BHL 1220' FSL & 1254' FWL Sec. 26, T 21 S., R. 32 E.

Lea County, NM

"Anderson Fed Com Pad C"

Type	Interval (MD)	lb/gal	Viscosity	Fluid Loss ml/30 mins
fresh water	0' - 1232'	8.4 - 10.0	28 - 36	N/C
Brine	1232' - 4734'	10.0 - 10.5	28 - 32	N/C
Cut Brine	4734' - 10162'	9.2 - 9.5	28 - 30	N/C
OBM	10162' - 17704'	9.5 - 9.8	55 - 65	<8

6. CORES, TESTS, & LOGS

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

7. DOWN HOLE CONDITIONS

No abnormal pressure or temperature is expected. Maximum expected bottom hole pressure is ≈ 5463 psi. Expected bottom hole temperature is $\approx 233^\circ$ F.

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

8. OTHER INFORMATION

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

**WELL DETAILS: Anderson Fed Com 553H**

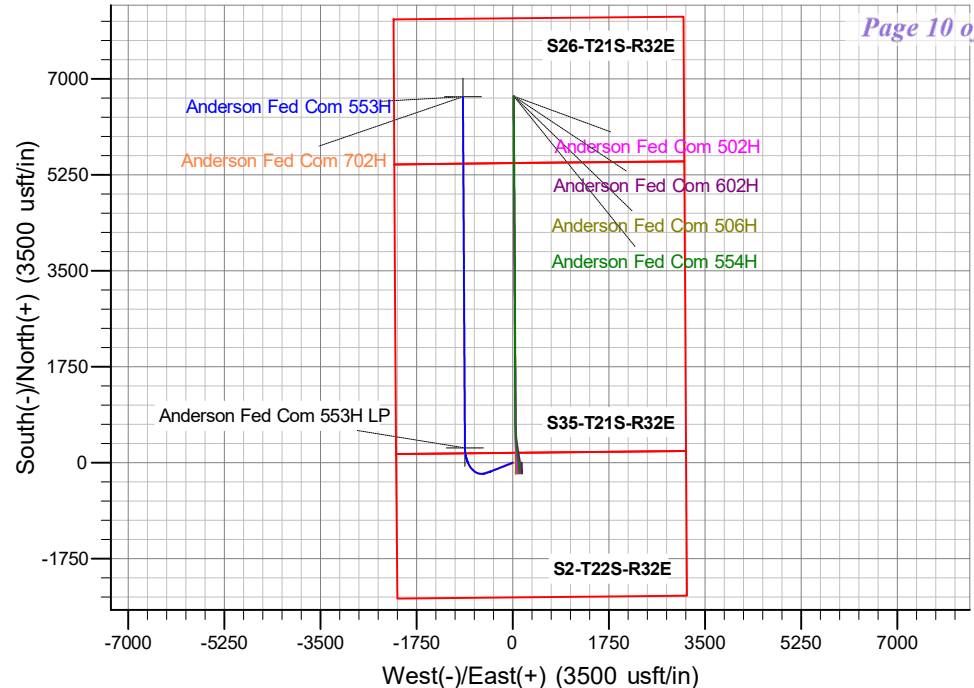
Ground Elev: 3672.0 KB: 3704.5

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	519952.50	753077.48	32° 25' 39.167 N	103° 38' 49.482 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

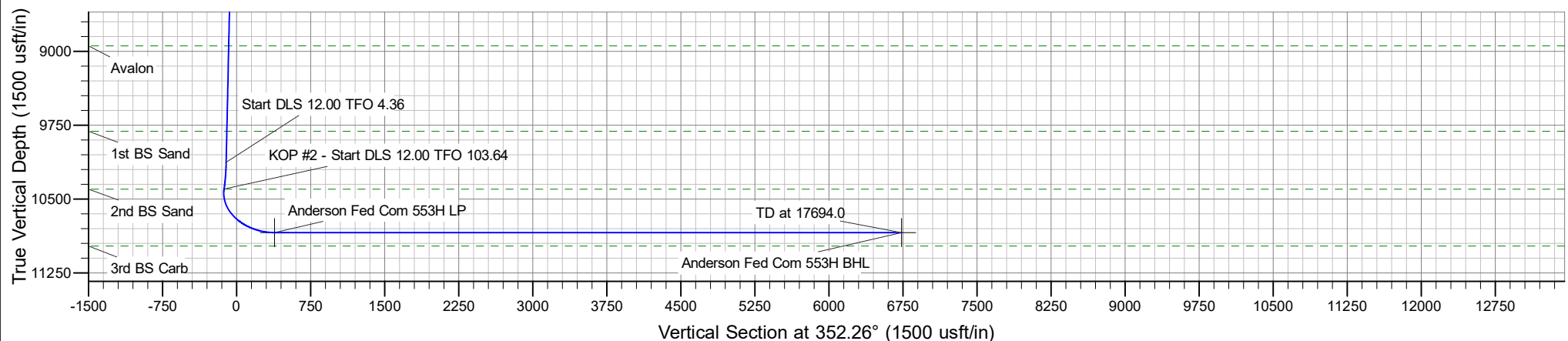
**SECTION DETAILS**

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	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	5500.0	5.00	248.00	5499.4	-8.2	-20.2	1.00	248.00	-5.4	Start 4645.3 hold at 5500.0 MD
4	10145.3	5.00	248.00	10127.0	-159.8	-395.6	0.00	0.00	-105.1	Start DLS 12.00 TFO 4.36
5	10443.8	40.80	251.90	10397.5	-196.2	-503.9	12.00	4.36	-126.6	KOP #2 - Start DLS 12.00 TFO 103.64
6	11289.8	90.00	359.67	10840.0	269.7	-870.2	12.00	103.64	384.4	LP - Start 6404.2 hold at 11289.8 MD
7	17694.0	90.00	359.67	10840.0	6673.8	-906.6	0.00	0.00	6735.1	TD at 17694.0



Azimuths to Grid North
 True North: -0.37°
 Magnetic North: 6.29°

Magnetic Field
 Strength: 47722.6nT
 Dip Angle: 60.19°
 Date: 8/17/2020
 Model: IGRF2015





Advance Energy Partners

Hat Mesa

Anderson Fed Com - Pad C

Anderson Fed Com 553H

Anderson Fed Com 553H

Plan: Anderson Fed Com 553H - Prelim 2

Standard Planning Report

28 July, 2021



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Anderson Fed Com 553H
Company:	Advance Energy Partners	TVD Reference:	WELL @ 3704.5usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3704.5usft (Original Well Elev)
Site:	Anderson Fed Com - Pad C	North Reference:	Grid
Well:	Anderson Fed Com 553H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 553H		
Design:	Anderson Fed Com 553H - Prelim 2		

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

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

Well	Anderson Fed Com 553H					
Well Position	+N/-S	0.0 usft	Northing:	519,952.50 usft	Latitude:	32° 25' 39.167 N
	+E/-W	0.0 usft	Easting:	753,077.48 usft	Longitude:	103° 38' 49.482 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,672.0 usft
Grid Convergence:	0.37 °					

Wellbore	Anderson Fed Com 553H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	8/17/2020	6.66	60.19	47,722.56021447

Design	Anderson Fed Com 553H - Prelim 2				
Audit Notes:					
Version:		Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	352.26	

Plan Survey Tool Program	Date	7/28/2021			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	17,693.9	Anderson Fed Com 553H - 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	
5,500.0	5.00	248.00	5,499.4	-8.2	-20.2	1.00	1.00	0.00	248.00	
10,145.3	5.00	248.00	10,127.0	-159.8	-395.6	0.00	0.00	0.00	0.00	
10,443.8	40.80	251.90	10,397.5	-196.2	-503.9	12.00	11.99	1.31	4.36	
11,289.8	90.00	359.67	10,840.0	269.7	-870.2	12.00	5.82	12.74	103.64	Anderson Fed Com 5
17,694.0	90.00	359.67	10,840.0	6,673.8	-906.6	0.00	0.00	0.00	0.00	Anderson Fed Com 5



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Anderson Fed Com 553H
Company:	Advance Energy Partners	TVD Reference:	WELL @ 3704.5usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3704.5usft (Original Well Elev)
Site:	Anderson Fed Com - Pad C	North Reference:	Grid
Well:	Anderson Fed Com 553H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 553H		
Design:	Anderson Fed Com 553H - Prelim 2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,199.0	0.00	0.00	1,199.0	0.0	0.0	0.0	0.00	0.00	0.00
Rustler									
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,777.0	0.00	0.00	4,777.0	0.0	0.0	0.0	0.00	0.00	0.00
Base of Limestone									
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Anderson Fed Com 553H
Company:	Advance Energy Partners	TVD Reference:	WELL @ 3704.5usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3704.5usft (Original Well Elev)
Site:	Anderson Fed Com - Pad C	North Reference:	Grid
Well:	Anderson Fed Com 553H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 553H		
Design:	Anderson Fed Com 553H - Prelim 2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP - Start Build 1.00									
5,100.0	1.00	248.00	5,100.0	-0.3	-0.8	-0.2	1.00	1.00	0.00
5,200.0	2.00	248.00	5,200.0	-1.3	-3.2	-0.9	1.00	1.00	0.00
5,300.0	3.00	248.00	5,299.9	-2.9	-7.3	-1.9	1.00	1.00	0.00
5,400.0	4.00	248.00	5,399.7	-5.2	-12.9	-3.4	1.00	1.00	0.00
5,500.0	5.00	248.00	5,499.4	-8.2	-20.2	-5.4	1.00	1.00	0.00
Start 4645.3 hold at 5500.0 MD									
5,600.0	5.00	248.00	5,599.0	-11.4	-28.3	-7.5	0.00	0.00	0.00
5,700.0	5.00	248.00	5,698.6	-14.7	-36.4	-9.7	0.00	0.00	0.00
5,800.0	5.00	248.00	5,798.2	-18.0	-44.5	-11.8	0.00	0.00	0.00
5,900.0	5.00	248.00	5,897.8	-21.2	-52.5	-14.0	0.00	0.00	0.00
6,000.0	5.00	248.00	5,997.5	-24.5	-60.6	-16.1	0.00	0.00	0.00
6,100.0	5.00	248.00	6,097.1	-27.8	-68.7	-18.3	0.00	0.00	0.00
6,200.0	5.00	248.00	6,196.7	-31.0	-76.8	-20.4	0.00	0.00	0.00
6,300.0	5.00	248.00	6,296.3	-34.3	-84.9	-22.6	0.00	0.00	0.00
6,400.0	5.00	248.00	6,395.9	-37.6	-92.9	-24.7	0.00	0.00	0.00
6,500.0	5.00	248.00	6,495.6	-40.8	-101.0	-26.8	0.00	0.00	0.00
6,600.0	5.00	248.00	6,595.2	-44.1	-109.1	-29.0	0.00	0.00	0.00
6,700.0	5.00	248.00	6,694.8	-47.3	-117.2	-31.1	0.00	0.00	0.00
6,800.0	5.00	248.00	6,794.4	-50.6	-125.3	-33.3	0.00	0.00	0.00
6,900.0	5.00	248.00	6,894.0	-53.9	-133.3	-35.4	0.00	0.00	0.00
7,000.0	5.00	248.00	6,993.7	-57.1	-141.4	-37.6	0.00	0.00	0.00
7,100.0	5.00	248.00	7,093.3	-60.4	-149.5	-39.7	0.00	0.00	0.00
7,200.0	5.00	248.00	7,192.9	-63.7	-157.6	-41.9	0.00	0.00	0.00
7,300.0	5.00	248.00	7,292.5	-66.9	-165.7	-44.0	0.00	0.00	0.00
7,400.0	5.00	248.00	7,392.1	-70.2	-173.8	-46.2	0.00	0.00	0.00
7,500.0	5.00	248.00	7,491.8	-73.5	-181.8	-48.3	0.00	0.00	0.00
7,600.0	5.00	248.00	7,591.4	-76.7	-189.9	-50.5	0.00	0.00	0.00
7,700.0	5.00	248.00	7,691.0	-80.0	-198.0	-52.6	0.00	0.00	0.00
7,800.0	5.00	248.00	7,790.6	-83.3	-206.1	-54.8	0.00	0.00	0.00
7,900.0	5.00	248.00	7,890.2	-86.5	-214.2	-56.9	0.00	0.00	0.00
8,000.0	5.00	248.00	7,989.9	-89.8	-222.2	-59.1	0.00	0.00	0.00
8,100.0	5.00	248.00	8,089.5	-93.1	-230.3	-61.2	0.00	0.00	0.00
8,200.0	5.00	248.00	8,189.1	-96.3	-238.4	-63.4	0.00	0.00	0.00
8,300.0	5.00	248.00	8,288.7	-99.6	-246.5	-65.5	0.00	0.00	0.00
8,400.0	5.00	248.00	8,388.3	-102.8	-254.6	-67.7	0.00	0.00	0.00
8,435.8	5.00	248.00	8,424.0	-104.0	-257.5	-68.4	0.00	0.00	0.00
Lower Brushy									
8,500.0	5.00	248.00	8,487.9	-106.1	-262.6	-69.8	0.00	0.00	0.00
8,600.0	5.00	248.00	8,587.6	-109.4	-270.7	-71.9	0.00	0.00	0.00
8,700.0	5.00	248.00	8,687.2	-112.6	-278.8	-74.1	0.00	0.00	0.00
8,800.0	5.00	248.00	8,786.8	-115.9	-286.9	-76.2	0.00	0.00	0.00
8,900.0	5.00	248.00	8,886.4	-119.2	-295.0	-78.4	0.00	0.00	0.00
8,957.8	5.00	248.00	8,944.0	-121.1	-299.6	-79.6	0.00	0.00	0.00
Avalon									
9,000.0	5.00	248.00	8,986.0	-122.4	-303.0	-80.5	0.00	0.00	0.00
9,100.0	5.00	248.00	9,085.7	-125.7	-311.1	-82.7	0.00	0.00	0.00
9,200.0	5.00	248.00	9,185.3	-129.0	-319.2	-84.8	0.00	0.00	0.00
9,300.0	5.00	248.00	9,284.9	-132.2	-327.3	-87.0	0.00	0.00	0.00
9,400.0	5.00	248.00	9,384.5	-135.5	-335.4	-89.1	0.00	0.00	0.00
9,500.0	5.00	248.00	9,484.1	-138.8	-343.5	-91.3	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Anderson Fed Com 553H
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Project:	Hat Mesa	MD Reference:	WELL @ 3704.5usft (Original Well Elev)
Site:	Anderson Fed Com - Pad C	North Reference:	Grid
Well:	Anderson Fed Com 553H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 553H		
Design:	Anderson Fed Com 553H - Prelim 2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,600.0	5.00	248.00	9,583.8	-142.0	-351.5	-93.4	0.00	0.00	0.00
9,700.0	5.00	248.00	9,683.4	-145.3	-359.6	-95.6	0.00	0.00	0.00
9,800.0	5.00	248.00	9,783.0	-148.6	-367.7	-97.7	0.00	0.00	0.00
9,828.1	5.00	248.00	9,811.0	-149.5	-370.0	-98.3	0.00	0.00	0.00
1st BS Sand									
9,900.0	5.00	248.00	9,882.6	-151.8	-375.8	-99.9	0.00	0.00	0.00
10,000.0	5.00	248.00	9,982.2	-155.1	-383.9	-102.0	0.00	0.00	0.00
10,100.0	5.00	248.00	10,081.9	-158.4	-391.9	-104.2	0.00	0.00	0.00
10,145.3	5.00	248.00	10,127.0	-159.8	-395.6	-105.1	0.00	0.00	0.00
Start DLS 12.00 TFO 4.36									
10,200.0	11.55	250.49	10,181.1	-162.6	-403.0	-106.8	12.00	11.98	4.55
10,300.0	23.55	251.47	10,276.3	-172.3	-431.5	-112.6	12.00	11.99	0.99
10,400.0	35.54	251.81	10,363.1	-187.8	-478.2	-121.7	12.00	12.00	0.34
10,443.8	40.80	251.90	10,397.5	-196.2	-503.9	-126.6	12.00	12.00	0.21
KOP #2 - Start DLS 12.00 TFO 103.64									
10,445.8	40.74	252.26	10,399.0	-196.6	-505.1	-126.8	12.00	-2.80	17.86
2nd BS Sand									
10,500.0	39.66	262.21	10,440.5	-204.3	-539.2	-129.9	12.00	-2.00	18.34
10,600.0	39.97	280.99	10,517.6	-202.5	-602.5	-119.6	12.00	0.31	18.78
10,700.0	43.16	298.47	10,592.6	-180.0	-664.4	-89.0	12.00	3.19	17.48
10,800.0	48.66	313.36	10,662.4	-137.8	-721.9	-39.4	12.00	5.49	14.89
10,900.0	55.75	325.64	10,723.8	-77.7	-772.7	27.0	12.00	7.09	12.28
11,000.0	63.86	335.89	10,774.1	-2.3	-814.6	107.3	12.00	8.11	10.25
11,100.0	72.60	344.75	10,811.2	85.0	-845.6	198.0	12.00	8.74	8.86
11,200.0	81.70	352.79	10,833.5	180.5	-864.4	295.2	12.00	9.10	8.04
11,289.8	90.00	359.67	10,840.0	269.7	-870.2	384.4	12.00	9.25	7.67
LP - Start 6404.2 hold at 11289.8 MD - Anderson Fed Com 553H LP									
11,300.0	90.00	359.67	10,840.0	279.9	-870.3	394.5	0.00	0.00	0.00
11,400.0	90.00	359.67	10,840.0	379.9	-870.9	493.7	0.00	0.00	0.00
11,500.0	90.00	359.67	10,840.0	479.9	-871.4	592.8	0.00	0.00	0.00
11,600.0	90.00	359.67	10,840.0	579.9	-872.0	692.0	0.00	0.00	0.00
11,700.0	90.00	359.67	10,840.0	679.9	-872.6	791.2	0.00	0.00	0.00
11,800.0	90.00	359.67	10,840.0	779.9	-873.1	890.3	0.00	0.00	0.00
11,900.0	90.00	359.67	10,840.0	879.9	-873.7	989.5	0.00	0.00	0.00
12,000.0	90.00	359.67	10,840.0	979.9	-874.3	1,088.7	0.00	0.00	0.00
12,100.0	90.00	359.67	10,840.0	1,079.9	-874.8	1,187.8	0.00	0.00	0.00
12,200.0	90.00	359.67	10,840.0	1,179.9	-875.4	1,287.0	0.00	0.00	0.00
12,300.0	90.00	359.67	10,840.0	1,279.9	-876.0	1,386.1	0.00	0.00	0.00
12,400.0	90.00	359.67	10,840.0	1,379.9	-876.5	1,485.3	0.00	0.00	0.00
12,500.0	90.00	359.67	10,840.0	1,479.9	-877.1	1,584.5	0.00	0.00	0.00
12,600.0	90.00	359.67	10,840.0	1,579.9	-877.7	1,683.6	0.00	0.00	0.00
12,700.0	90.00	359.67	10,840.0	1,679.9	-878.2	1,782.8	0.00	0.00	0.00
12,800.0	90.00	359.67	10,840.0	1,779.9	-878.8	1,882.0	0.00	0.00	0.00
12,900.0	90.00	359.67	10,840.0	1,879.9	-879.4	1,981.1	0.00	0.00	0.00
13,000.0	90.00	359.67	10,840.0	1,979.9	-880.0	2,080.3	0.00	0.00	0.00
13,100.0	90.00	359.67	10,840.0	2,079.9	-880.5	2,179.5	0.00	0.00	0.00
13,200.0	90.00	359.67	10,840.0	2,179.9	-881.1	2,278.6	0.00	0.00	0.00
13,300.0	90.00	359.67	10,840.0	2,279.9	-881.7	2,377.8	0.00	0.00	0.00
13,400.0	90.00	359.67	10,840.0	2,379.9	-882.2	2,477.0	0.00	0.00	0.00
13,500.0	90.00	359.67	10,840.0	2,479.9	-882.8	2,576.1	0.00	0.00	0.00
13,600.0	90.00	359.67	10,840.0	2,579.9	-883.4	2,675.3	0.00	0.00	0.00
13,700.0	90.00	359.67	10,840.0	2,679.9	-883.9	2,774.5	0.00	0.00	0.00
13,800.0	90.00	359.67	10,840.0	2,779.9	-884.5	2,873.6	0.00	0.00	0.00
13,900.0	90.00	359.67	10,840.0	2,879.9	-885.1	2,972.8	0.00	0.00	0.00



Planning Report

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Project:	Hat Mesa	MD Reference:	WELL @ 3704.5usft (Original Well Elev)
Site:	Anderson Fed Com - Pad C	North Reference:	Grid
Well:	Anderson Fed Com 553H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 553H		
Design:	Anderson Fed Com 553H - Prelim 2		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
14,000.0	90.00	359.67	10,840.0	2,979.9	-885.6	3,072.0	0.00	0.00	0.00	
14,100.0	90.00	359.67	10,840.0	3,079.9	-886.2	3,171.1	0.00	0.00	0.00	
14,200.0	90.00	359.67	10,840.0	3,179.9	-886.8	3,270.3	0.00	0.00	0.00	
14,300.0	90.00	359.67	10,840.0	3,279.9	-887.3	3,369.4	0.00	0.00	0.00	
14,400.0	90.00	359.67	10,840.0	3,379.9	-887.9	3,468.6	0.00	0.00	0.00	
14,500.0	90.00	359.67	10,840.0	3,479.9	-888.5	3,567.8	0.00	0.00	0.00	
14,600.0	90.00	359.67	10,840.0	3,579.9	-889.0	3,666.9	0.00	0.00	0.00	
14,700.0	90.00	359.67	10,840.0	3,679.9	-889.6	3,766.1	0.00	0.00	0.00	
14,800.0	90.00	359.67	10,840.0	3,779.9	-890.2	3,865.3	0.00	0.00	0.00	
14,900.0	90.00	359.67	10,840.0	3,879.9	-890.7	3,964.4	0.00	0.00	0.00	
15,000.0	90.00	359.67	10,840.0	3,979.8	-891.3	4,063.6	0.00	0.00	0.00	
15,100.0	90.00	359.67	10,840.0	4,079.8	-891.9	4,162.8	0.00	0.00	0.00	
15,200.0	90.00	359.67	10,840.0	4,179.8	-892.4	4,261.9	0.00	0.00	0.00	
15,300.0	90.00	359.67	10,840.0	4,279.8	-893.0	4,361.1	0.00	0.00	0.00	
15,400.0	90.00	359.67	10,840.0	4,379.8	-893.6	4,460.3	0.00	0.00	0.00	
15,500.0	90.00	359.67	10,840.0	4,479.8	-894.1	4,559.4	0.00	0.00	0.00	
15,600.0	90.00	359.67	10,840.0	4,579.8	-894.7	4,658.6	0.00	0.00	0.00	
15,700.0	90.00	359.67	10,840.0	4,679.8	-895.3	4,757.8	0.00	0.00	0.00	
15,800.0	90.00	359.67	10,840.0	4,779.8	-895.8	4,856.9	0.00	0.00	0.00	
15,900.0	90.00	359.67	10,840.0	4,879.8	-896.4	4,956.1	0.00	0.00	0.00	
16,000.0	90.00	359.67	10,840.0	4,979.8	-897.0	5,055.2	0.00	0.00	0.00	
16,100.0	90.00	359.67	10,840.0	5,079.8	-897.5	5,154.4	0.00	0.00	0.00	
16,200.0	90.00	359.67	10,840.0	5,179.8	-898.1	5,253.6	0.00	0.00	0.00	
16,300.0	90.00	359.67	10,840.0	5,279.8	-898.7	5,352.7	0.00	0.00	0.00	
16,400.0	90.00	359.67	10,840.0	5,379.8	-899.2	5,451.9	0.00	0.00	0.00	
16,500.0	90.00	359.67	10,840.0	5,479.8	-899.8	5,551.1	0.00	0.00	0.00	
16,600.0	90.00	359.67	10,840.0	5,579.8	-900.4	5,650.2	0.00	0.00	0.00	
16,700.0	90.00	359.67	10,840.0	5,679.8	-901.0	5,749.4	0.00	0.00	0.00	
16,800.0	90.00	359.67	10,840.0	5,779.8	-901.5	5,848.6	0.00	0.00	0.00	
16,900.0	90.00	359.67	10,840.0	5,879.8	-902.1	5,947.7	0.00	0.00	0.00	
17,000.0	90.00	359.67	10,840.0	5,979.8	-902.7	6,046.9	0.00	0.00	0.00	
17,100.0	90.00	359.67	10,840.0	6,079.8	-903.2	6,146.1	0.00	0.00	0.00	
17,200.0	90.00	359.67	10,840.0	6,179.8	-903.8	6,245.2	0.00	0.00	0.00	
17,300.0	90.00	359.67	10,840.0	6,279.8	-904.4	6,344.4	0.00	0.00	0.00	
17,400.0	90.00	359.67	10,840.0	6,379.8	-904.9	6,443.6	0.00	0.00	0.00	
17,500.0	90.00	359.67	10,840.0	6,479.8	-905.5	6,542.7	0.00	0.00	0.00	
17,600.0	90.00	359.67	10,840.0	6,579.8	-906.1	6,641.9	0.00	0.00	0.00	
17,694.0	90.00	359.67	10,840.0	6,673.8	-906.6	6,735.1	0.00	0.00	0.00	
TD at 17694.0 - Anderson Fed Com 553H BHL										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude		
- hit/miss target										
- Shape								Longitude		
Anderson Fed Com 553I - plan hits target center - Point	0.00	0.00	10,840.0	269.7	-870.2	520,222.20	752,207.24	32° 25' 41.891 N 103° 38' 59.615 W		
Anderson Fed Com 553I - plan hits target center - Point	0.00	0.00	10,840.0	6,673.8	-906.6	526,626.27	752,170.89	32° 26' 45.262 N 103° 38' 59.561 W		



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Anderson Fed Com 553H
Company:	Advance Energy Partners	TVD Reference:	WELL @ 3704.5usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3704.5usft (Original Well Elev)
Site:	Anderson Fed Com - Pad C	North Reference:	Grid
Well:	Anderson Fed Com 553H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 553H		
Design:	Anderson Fed Com 553H - Prelim 2		

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
11,289.8	10,840.0	LP	5-1/2	5-1/2	

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,199.0	1,199.0	Rustler		0.00	
4,777.0	4,777.0	Base of Limestone		0.00	
8,435.8	8,424.0	Lower Brushy		0.00	
8,957.8	8,944.0	Avalon		0.00	
9,828.1	9,811.0	1st BS Sand		0.00	
10,445.8	10,399.0	2nd BS Sand		0.00	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
5,000.0	5,000.0	0.0	0.0	KOP - Start Build 1.00	
5,500.0	5,499.4	-8.2	-20.2	Start 4645.3 hold at 5500.0 MD	
10,145.3	10,127.0	-159.8	-395.6	Start DLS 12.00 TFO 4.36	
10,443.8	10,397.5	-196.2	-503.9	KOP #2 - Start DLS 12.00 TFO 103.64	
11,289.8	10,840.0	269.7	-870.2	LP - Start 6404.2 hold at 11289.8 MD	
17,694.0	10,840.0	6,673.8	-906.6	TD at 17694.0	



Advance Energy Partners

Hat Mesa

Anderson Fed Com - Pad C

Anderson Fed Com 553H

Anderson Fed Com 553H

Anderson Fed Com 553H - Prelim 2

Anticollision Report

28 July, 2021



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 553H
Project:	Hat Mesa	TVD Reference:	WELL @ 3704.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3704.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 553H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 553H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 553H - Prelim 2	Offset TVD Reference:	Offset Datum

Reference	Anderson Fed Com 553H - Prelim 2		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 1,000.0usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.79 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	7/28/2021			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	17,693.9	Anderson Fed Com 553H - Prelim 2 (Ande	MWD+HRGM	OWSG MWD + HRGM	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Anderson Fed Com - Pad C						
Anderson Fed Com 502H - Anderson Fed Com 502H - A	5,000.0	5,000.0	99.1	73.0	3.795	CC, ES
Anderson Fed Com 502H - Anderson Fed Com 502H - A	5,100.0	5,100.0	99.9	73.6	3.788	SF
Anderson Fed Com 506H - Anderson Fed Com 506H - A	5,000.0	4,999.0	66.1	40.0	2.531	CC, ES, SF
Anderson Fed Com 554H - Anderson Fed Com 554H - A	5,000.0	4,999.0	131.5	105.4	5.035	CC, ES
Anderson Fed Com 554H - Anderson Fed Com 554H - A	17,694.7	17,832.0	974.9	701.0	3.559	SF
Anderson Fed Com 602H - Anderson Fed Com 602H - A	5,000.0	5,000.0	165.2	139.0	6.322	CC, ES
Anderson Fed Com 602H - Anderson Fed Com 602H - A	5,100.0	5,100.0	166.0	139.6	6.290	SF
Anderson Fed Com 702H - Anderson Fed Com 702H - A	5,000.0	4,995.0	33.1	7.0	1.267	Level 3, CC
Anderson Fed Com 702H - Anderson Fed Com 702H - A	10,150.0	10,149.2	66.2	3.5	1.056	Level 3, ES, SF

Offset Design:	Anderson Fed Com - Pad C - Anderson Fed Com 502H - Anderson Fed Com 502H - Anderson Fed Com 502H - Prelim 2											Offset Site Error:	0.0 usft
Survey Program:	0-MWD+HRGM											Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Rule Assigned:	Minimum	Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	89.50	0.9	99.1	99.1				
100.0	100.0	100.0	100.0	0.5	0.5	89.50	0.9	99.1	99.1	98.1	1.06	93.495	
200.0	200.0	200.0	200.0	1.7	1.7	89.50	0.9	99.1	99.1	95.7	3.42	28.956	
300.0	300.0	300.0	300.0	2.4	2.4	89.50	0.9	99.1	99.1	94.3	4.82	20.555	
400.0	400.0	400.0	400.0	3.0	3.0	89.50	0.9	99.1	99.1	93.2	5.91	16.780	
500.0	500.0	500.0	500.0	3.4	3.4	89.50	0.9	99.1	99.1	92.3	6.83	14.514	
600.0	600.0	600.0	600.0	3.8	3.8	89.50	0.9	99.1	99.1	91.5	7.65	12.961	
700.0	700.0	700.0	700.0	4.2	4.2	89.50	0.9	99.1	99.1	90.7	8.39	11.810	
800.0	800.0	800.0	800.0	4.5	4.5	89.50	0.9	99.1	99.1	90.0	9.08	10.913	
900.0	900.0	900.0	900.0	4.9	4.9	89.50	0.9	99.1	99.1	89.4	9.73	10.188	
1,000.0	1,000.0	1,000.0	1,000.0	5.2	5.2	89.50	0.9	99.1	99.1	88.8	10.34	9.586	
1,100.0	1,100.0	1,100.0	1,100.0	5.5	5.5	89.50	0.9	99.1	99.1	88.2	10.92	9.076	
1,200.0	1,200.0	1,200.0	1,200.0	5.7	5.7	89.50	0.9	99.1	99.1	87.7	11.48	8.636	
1,300.0	1,300.0	1,300.0	1,300.0	6.0	6.0	89.50	0.9	99.1	99.1	87.1	12.01	8.251	
1,400.0	1,400.0	1,400.0	1,400.0	6.3	6.3	89.50	0.9	99.1	99.1	86.6	12.53	7.911	
1,500.0	1,500.0	1,500.0	1,500.0	6.5	6.5	89.50	0.9	99.1	99.1	86.1	13.03	7.607	
1,600.0	1,600.0	1,600.0	1,600.0	6.8	6.8	89.50	0.9	99.1	99.1	85.6	13.52	7.334	
1,700.0	1,700.0	1,700.0	1,700.0	7.0	7.0	89.50	0.9	99.1	99.1	85.1	13.99	7.086	

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 553H
Project:	Hat Mesa	TVD Reference:	WELL @ 3704.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3704.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 553H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 553H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 553H - Prelim 2	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad C - Anderson Fed Com 502H - Anderson Fed Com 502H - Anderson Fed Com 502H - Prelim 2												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	0.0 usft
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)			
1,800.0	1,800.0	1,800.0	1,800.0	7.2	7.2	89.50	0.9	99.1	99.1	84.7	14.45	6.861	
1,900.0	1,900.0	1,900.0	1,900.0	7.4	7.4	89.50	0.9	99.1	99.1	84.2	14.90	6.654	
2,000.0	2,000.0	2,000.0	2,000.0	7.7	7.7	89.50	0.9	99.1	99.1	83.8	15.34	6.463	
2,100.0	2,100.0	2,100.0	2,100.0	7.9	7.9	89.50	0.9	99.1	99.1	83.4	15.77	6.286	
2,200.0	2,200.0	2,200.0	2,200.0	8.1	8.1	89.50	0.9	99.1	99.1	82.9	16.19	6.122	
2,300.0	2,300.0	2,300.0	2,300.0	8.3	8.3	89.50	0.9	99.1	99.1	82.5	16.61	5.969	
2,400.0	2,400.0	2,400.0	2,400.0	8.5	8.5	89.50	0.9	99.1	99.1	82.1	17.02	5.826	
2,500.0	2,500.0	2,500.0	2,500.0	8.7	8.7	89.50	0.9	99.1	99.1	81.7	17.42	5.692	
2,600.0	2,600.0	2,600.0	2,600.0	8.9	8.9	89.50	0.9	99.1	99.1	81.3	17.81	5.565	
2,700.0	2,700.0	2,700.0	2,700.0	9.1	9.1	89.50	0.9	99.1	99.1	80.9	18.20	5.446	
2,800.0	2,800.0	2,800.0	2,800.0	9.3	9.3	89.50	0.9	99.1	99.1	80.5	18.59	5.334	
2,900.0	2,900.0	2,900.0	2,900.0	9.5	9.5	89.50	0.9	99.1	99.1	80.2	18.96	5.227	
3,000.0	3,000.0	3,000.0	3,000.0	9.7	9.7	89.50	0.9	99.1	99.1	79.8	19.34	5.126	
3,100.0	3,100.0	3,100.0	3,100.0	9.9	9.9	89.50	0.9	99.1	99.1	79.4	19.71	5.030	
3,200.0	3,200.0	3,200.0	3,200.0	10.0	10.0	89.50	0.9	99.1	99.1	79.1	20.07	4.938	
3,300.0	3,300.0	3,300.0	3,300.0	10.2	10.2	89.50	0.9	99.1	99.1	78.7	20.44	4.851	
3,400.0	3,400.0	3,400.0	3,400.0	10.4	10.4	89.50	0.9	99.1	99.1	78.3	20.79	4.767	
3,500.0	3,500.0	3,500.0	3,500.0	10.6	10.6	89.50	0.9	99.1	99.1	78.0	21.15	4.688	
3,600.0	3,600.0	3,600.0	3,600.0	10.7	10.7	89.50	0.9	99.1	99.1	77.6	21.50	4.611	
3,700.0	3,700.0	3,700.0	3,700.0	10.9	10.9	89.50	0.9	99.1	99.1	77.3	21.85	4.538	
3,800.0	3,800.0	3,800.0	3,800.0	11.1	11.1	89.50	0.9	99.1	99.1	76.9	22.19	4.467	
3,900.0	3,900.0	3,900.0	3,900.0	11.3	11.3	89.50	0.9	99.1	99.1	76.6	22.53	4.400	
4,000.0	4,000.0	4,000.0	4,000.0	11.4	11.4	89.50	0.9	99.1	99.1	76.3	22.87	4.334	
4,100.0	4,100.0	4,100.0	4,100.0	11.6	11.6	89.50	0.9	99.1	99.1	75.9	23.21	4.272	
4,200.0	4,200.0	4,200.0	4,200.0	11.8	11.8	89.50	0.9	99.1	99.1	75.6	23.54	4.211	
4,300.0	4,300.0	4,300.0	4,300.0	11.9	11.9	89.50	0.9	99.1	99.1	75.3	23.87	4.153	
4,400.0	4,400.0	4,400.0	4,400.0	12.1	12.1	89.50	0.9	99.1	99.1	74.9	24.20	4.097	
4,500.0	4,500.0	4,500.0	4,500.0	12.3	12.3	89.50	0.9	99.1	99.1	74.6	24.53	4.042	
4,600.0	4,600.0	4,600.0	4,600.0	12.4	12.4	89.50	0.9	99.1	99.1	74.3	24.85	3.989	
4,700.0	4,700.0	4,700.0	4,700.0	12.6	12.6	89.50	0.9	99.1	99.1	74.0	25.17	3.938	
4,800.0	4,800.0	4,800.0	4,800.0	12.7	12.7	89.50	0.9	99.1	99.1	73.6	25.49	3.889	
4,900.0	4,900.0	4,900.0	4,900.0	12.9	12.9	89.50	0.9	99.1	99.1	73.3	25.81	3.841	
5,000.0	5,000.0	5,000.0	5,000.0	13.1	13.1	89.50	0.9	99.1	99.1	73.0	26.12	3.795 CC, ES	
5,100.0	5,100.0	5,100.0	5,100.0	13.2	13.2	-158.68	0.9	99.1	99.9	73.6	26.39	3.788 SF	
5,200.0	5,200.0	5,200.0	5,200.0	13.3	13.4	-159.20	0.9	99.1	102.4	75.7	26.64	3.843	
5,300.0	5,299.9	5,300.0	5,300.0	13.4	13.5	-159.55	0.0	99.1	106.4	79.6	26.84	3.966	
5,400.0	5,399.7	5,399.9	5,399.9	13.5	13.5	-159.29	-2.6	99.0	112.0	85.0	27.02	4.145	
5,500.0	5,499.4	5,499.7	5,499.6	13.7	13.6	-158.56	-6.9	98.9	119.1	92.0	27.17	4.385	
5,600.0	5,599.0	5,599.4	5,599.2	13.9	13.6	-157.92	-11.5	98.8	127.1	99.7	27.37	4.642	
5,700.0	5,698.6	5,699.1	5,698.7	14.1	13.8	-157.35	-16.0	98.6	135.0	107.4	27.61	4.890	
5,800.0	5,798.2	5,798.7	5,798.3	14.3	13.9	-156.85	-20.6	98.5	143.0	115.1	27.86	5.132	
5,900.0	5,897.8	5,898.4	5,897.9	14.5	14.0	-156.40	-25.2	98.3	150.9	122.8	28.13	5.366	
6,000.0	5,997.5	5,998.1	5,997.4	14.7	14.2	-156.00	-29.8	98.2	158.9	130.5	28.41	5.594	
6,100.0	6,097.1	6,097.8	6,097.0	15.0	14.3	-155.63	-34.4	98.1	166.9	138.2	28.71	5.814	
6,200.0	6,196.7	6,197.4	6,196.6	15.3	14.5	-155.30	-39.0	97.9	174.9	145.9	29.02	6.028	
6,300.0	6,296.3	6,297.1	6,296.1	15.6	14.7	-154.99	-43.6	97.8	182.9	153.6	29.34	6.234	
6,400.0	6,395.9	6,396.8	6,395.7	15.9	14.9	-154.72	-48.2	97.7	190.9	161.2	29.67	6.433	
6,500.0	6,495.6	6,496.5	6,495.3	16.2	15.1	-154.46	-52.8	97.5	198.9	168.9	30.02	6.626	
6,600.0	6,595.2	6,596.1	6,594.9	16.5	15.4	-154.23	-57.4	97.4	206.9	176.5	30.38	6.811	
6,700.0	6,694.8	6,695.8	6,694.4	16.9	15.6	-154.01	-62.0	97.2	214.9	184.2	30.75	6.991	
6,800.0	6,794.4	6,795.5	6,794.0	17.2	15.9	-153.80	-66.6	97.1	222.9	191.8	31.12	7.163	
6,900.0	6,894.0	6,895.2	6,893.6	17.6	16.1	-153.62	-71.2	97.0	231.0	199.5	31.51	7.330	

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 553H
Project:	Hat Mesa	TVD Reference:	WELL @ 3704.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3704.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 553H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 553H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 553H - Prelim 2	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad C - Anderson Fed Com 502H - Anderson Fed Com 502H - Anderson Fed Com 502H - Prelim 2												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	0.0 usft
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
7,000.0	6,993.7	6,994.8	6,993.1	17.9	16.4	-153.44	-75.8	96.8	239.0	207.1	31.91	7.490	
7,100.0	7,093.3	7,094.5	7,092.7	18.3	16.7	-153.28	-80.3	96.7	247.0	214.7	32.31	7.645	
7,200.0	7,192.9	7,194.2	7,192.3	18.7	16.9	-153.12	-84.9	96.6	255.0	222.3	32.72	7.794	
7,300.0	7,292.5	7,293.9	7,291.8	19.1	17.2	-152.98	-89.5	96.4	263.1	229.9	33.14	7.937	
7,400.0	7,392.1	7,393.6	7,391.4	19.5	17.5	-152.84	-94.1	96.3	271.1	237.5	33.57	8.075	
7,500.0	7,491.8	7,493.2	7,491.0	19.9	17.8	-152.71	-98.7	96.1	279.1	245.1	34.01	8.208	
7,600.0	7,591.4	7,592.9	7,590.5	20.3	18.2	-152.59	-103.3	96.0	287.2	252.7	34.45	8.336	
7,700.0	7,691.0	7,692.6	7,690.1	20.7	18.5	-152.48	-107.9	95.9	295.2	260.3	34.90	8.459	
7,800.0	7,790.6	7,792.3	7,789.7	21.1	18.8	-152.37	-112.5	95.7	303.2	267.9	35.35	8.578	
7,900.0	7,890.2	7,891.9	7,889.3	21.6	19.1	-152.27	-117.1	95.6	311.3	275.4	35.81	8.692	
8,000.0	7,989.9	7,991.6	7,988.8	22.0	19.5	-152.17	-121.7	95.5	319.3	283.0	36.27	8.802	
8,100.0	8,089.5	8,091.3	8,088.4	22.5	19.8	-152.08	-126.3	95.3	327.3	290.6	36.74	8.908	
8,200.0	8,189.1	8,191.0	8,188.0	22.9	20.2	-151.99	-130.9	95.2	335.4	298.1	37.22	9.010	
8,300.0	8,288.7	8,290.6	8,287.5	23.3	20.5	-151.90	-135.5	95.0	343.4	305.7	37.70	9.109	
8,400.0	8,388.3	8,390.3	8,387.1	23.8	20.9	-151.82	-140.1	94.9	351.4	313.3	38.18	9.204	
8,500.0	8,487.9	8,490.0	8,486.7	24.3	21.2	-151.75	-144.7	94.8	359.5	320.8	38.67	9.295	
8,600.0	8,587.6	8,589.7	8,586.2	24.7	21.6	-151.67	-149.2	94.6	367.5	328.4	39.17	9.383	
8,700.0	8,687.2	8,689.3	8,685.8	25.2	22.0	-151.60	-153.8	94.5	375.6	335.9	39.66	9.468	
8,800.0	8,786.8	8,789.0	8,785.4	25.6	22.3	-151.54	-158.4	94.4	383.6	343.4	40.17	9.551	
8,900.0	8,886.4	8,888.7	8,884.9	26.1	22.7	-151.47	-163.0	94.2	391.6	351.0	40.67	9.630	
9,000.0	8,986.0	8,988.4	8,984.5	26.6	23.1	-151.41	-167.6	94.1	399.7	358.5	41.18	9.706	
9,100.0	9,085.7	9,088.0	9,084.1	27.1	23.5	-151.35	-172.2	93.9	407.7	366.0	41.69	9.780	
9,200.0	9,185.3	9,187.7	9,183.7	27.5	23.9	-151.29	-176.8	93.8	415.8	373.6	42.21	9.851	
9,300.0	9,284.9	9,287.4	9,283.2	28.0	24.2	-151.24	-181.4	93.7	423.8	381.1	42.72	9.920	
9,400.0	9,384.5	9,387.1	9,382.8	28.5	24.6	-151.18	-186.0	93.5	431.9	388.6	43.25	9.986	
9,500.0	9,484.1	9,486.7	9,482.4	29.0	25.0	-151.13	-190.6	93.4	439.9	396.1	43.77	10.050	
9,600.0	9,583.8	9,586.7	9,582.3	29.5	25.4	-151.11	-195.0	93.3	447.9	403.7	44.26	10.121	
9,700.0	9,683.4	9,687.1	9,682.6	29.9	25.7	-151.27	-197.9	93.2	455.8	411.0	44.79	10.177	
9,800.0	9,783.0	9,787.4	9,782.9	30.4	25.9	-151.65	-199.1	93.1	463.6	418.3	45.34	10.225	
9,900.0	9,882.6	9,887.1	9,882.6	30.9	26.0	-152.15	-199.1	93.1	471.3	425.4	45.91	10.265	
10,000.0	9,982.2	9,986.8	9,982.2	31.4	26.1	-152.63	-199.1	93.1	479.0	432.5	46.49	10.303	
10,100.0	10,081.9	10,100.9	10,095.7	31.9	25.8	-154.36	-189.0	92.4	485.5	438.3	47.18	10.289	
10,145.3	10,127.0	10,150.6	10,143.7	32.1	25.6	-156.05	-176.3	91.5	487.6	440.0	47.58	10.248	
10,150.0	10,131.7	10,155.5	10,148.4	32.1	25.6	-156.68	-174.7	91.4	487.9	440.2	47.63	10.244	
10,175.0	10,156.5	10,181.1	10,172.4	32.3	25.5	-159.13	-166.0	90.7	489.9	442.0	47.89	10.230	
10,200.0	10,181.1	10,205.3	10,194.7	32.4	25.4	-160.92	-156.6	90.0	493.2	445.0	48.19	10.235	
10,225.0	10,205.4	10,227.9	10,215.0	32.6	25.3	-162.45	-146.9	89.3	498.0	449.5	48.51	10.266	
10,250.0	10,229.5	10,248.8	10,233.4	32.8	25.3	-163.84	-137.0	88.6	504.3	455.5	48.85	10.325	
10,275.0	10,253.1	10,268.1	10,250.0	33.0	25.2	-165.12	-127.1	87.9	512.2	463.0	49.19	10.414	
10,300.0	10,276.3	10,285.8	10,264.8	33.1	25.1	-166.28	-117.5	87.2	521.6	472.1	49.53	10.533	
10,325.0	10,298.9	10,301.9	10,278.0	33.3	25.1	-167.33	-108.3	86.5	532.7	482.8	49.86	10.683	
10,350.0	10,321.0	10,316.5	10,289.7	33.5	25.0	-168.28	-99.6	85.9	545.3	495.1	50.19	10.864	
10,375.0	10,342.4	10,329.6	10,300.0	33.7	25.0	-169.12	-91.4	85.3	559.4	508.9	50.51	11.076	
10,400.0	10,363.1	10,341.5	10,309.1	33.9	24.9	-169.86	-83.8	84.7	575.0	524.2	50.81	11.316	
10,425.0	10,383.0	10,350.0	10,315.5	34.0	24.9	-170.29	-78.2	84.3	591.9	540.8	51.08	11.588	
10,443.8	10,397.5	10,359.2	10,322.3	34.2	24.8	-170.90	-72.0	83.9	605.4	554.1	51.29	11.803	
10,450.0	10,402.2	10,361.5	10,323.9	34.2	24.8	-172.80	-70.5	83.7	610.0	558.7	51.36	11.878	
10,475.0	10,421.3	10,370.8	10,330.7	34.4	24.8	-179.50	-64.0	83.3	628.6	577.0	51.58	12.186	
10,500.0	10,440.5	10,380.5	10,337.6	34.5	24.8	-171.76	-57.2	82.8	647.3	595.5	51.80	12.498	
10,525.0	10,459.8	10,390.4	10,344.5	34.7	24.7	-164.08	-50.1	82.3	666.1	614.1	51.99	12.811	
10,550.0	10,479.1	10,400.0	10,351.0	34.8	24.7	-156.58	-43.1	81.7	684.7	632.6	52.17	13.126	
10,575.0	10,498.4	10,411.2	10,358.4	34.9	24.7	-149.22	-34.7	81.1	703.3	650.9	52.34	13.438	

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 553H
Project:	Hat Mesa	TVD Reference:	WELL @ 3704.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3704.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 553H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 553H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 553H - Prelim 2	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad C - Anderson Fed Com 502H - Anderson Fed Com 502H - Anderson Fed Com 502H - Prelim 2													Offset Site Error: 0.0 usft		
Survey Program: 0-MWD+HRGM				Rule Assigned:										Offset Well Error: 0.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
10,600.0	10,517.6	10,425.0	10,367.3	35.1	24.6	142.04	-24.2	80.4	721.6	669.1	52.51	13.744			
10,625.0	10,536.7	10,433.1	10,372.4	35.2	24.6	135.49	-17.9	79.9	739.7	687.1	52.62	14.056			
10,650.0	10,555.6	10,444.4	10,379.3	35.3	24.6	129.16	-9.0	79.3	757.4	704.7	52.75	14.360			
10,675.0	10,574.2	10,455.9	10,386.1	35.5	24.5	123.22	0.3	78.6	774.8	722.0	52.86	14.658			
10,700.0	10,592.6	10,467.7	10,392.8	35.6	24.5	117.68	9.9	77.9	791.8	738.8	52.96	14.950			
10,725.0	10,610.7	10,479.7	10,399.4	35.7	24.5	112.54	19.9	77.2	808.3	755.2	53.06	15.235			
10,750.0	10,628.4	10,491.8	10,405.8	35.8	24.4	107.79	30.2	76.4	824.3	771.2	53.14	15.512			
10,775.0	10,645.6	10,500.0	10,410.0	36.0	24.4	103.48	37.2	75.9	839.8	786.6	53.18	15.791			
10,800.0	10,662.4	10,516.8	10,418.2	36.1	24.4	99.40	51.8	74.8	854.6	801.4	53.28	16.041			
10,825.0	10,678.6	10,525.0	10,422.0	36.2	24.4	95.78	59.0	74.3	868.9	815.6	53.30	16.302			
10,850.0	10,694.3	10,542.5	10,429.7	36.3	24.3	92.37	74.7	73.2	882.5	829.2	53.39	16.529			
10,875.0	10,709.4	10,555.5	10,435.1	36.4	24.3	89.31	86.6	72.3	895.5	842.1	53.44	16.757			
10,900.0	10,723.8	10,568.8	10,440.3	36.5	24.3	86.54	98.7	71.4	907.8	854.3	53.49	16.972			
10,925.0	10,737.5	10,582.2	10,445.1	36.6	24.2	84.02	111.2	70.5	919.4	865.8	53.53	17.175			
10,950.0	10,750.5	10,600.0	10,451.0	36.7	24.2	81.72	128.0	69.3	930.2	876.6	53.61	17.352			
10,975.0	10,762.7	10,609.3	10,453.8	36.8	24.2	79.70	136.8	68.6	940.3	886.6	53.61	17.539			
11,000.0	10,774.1	10,625.0	10,458.2	36.9	24.2	77.85	151.8	67.5	949.6	895.9	53.66	17.694			
11,025.0	10,784.7	10,636.9	10,461.2	37.1	24.2	76.22	163.3	66.7	958.1	904.4	53.68	17.846			
11,050.0	10,794.5	10,650.0	10,464.1	37.2	24.2	74.77	176.1	65.8	965.8	912.0	53.71	17.980			
11,075.0	10,803.3	10,664.8	10,467.0	37.3	24.1	73.47	190.5	64.7	972.6	918.9	53.76	18.092			
11,100.0	10,811.2	10,675.0	10,468.8	37.4	24.1	72.37	200.5	64.0	978.7	925.0	53.76	18.207			
11,125.0	10,818.3	10,692.9	10,471.3	37.6	24.1	71.38	218.2	62.7	983.9	930.1	53.84	18.274			
11,150.0	10,824.3	10,707.1	10,472.9	37.7	24.1	70.55	232.3	61.7	988.3	934.4	53.88	18.341			
11,175.0	10,829.4	10,725.0	10,474.2	37.8	24.1	69.85	250.1	60.4	991.8	937.8	53.98	18.375			
11,200.0	10,833.5	10,735.4	10,474.7	38.0	24.1	69.32	260.4	59.6	994.4	940.5	53.98	18.424			
11,225.0	10,836.6	10,752.1	10,475.0	38.1	24.1	68.90	277.1	58.4	996.2	942.2	54.06	18.429			
11,250.0	10,838.7	10,768.4	10,475.0	38.3	24.1	68.61	293.4	57.2	997.1	942.9	54.14	18.417			
11,275.0	10,839.8	10,787.3	10,475.0	38.4	24.1	68.48	312.2	56.0	996.9	942.7	54.26	18.374			
11,289.8	10,840.0	10,800.0	10,475.0	38.5	24.1	68.48	324.9	55.2	996.4	942.0	54.35	18.333			
11,300.0	10,840.0	10,800.0	10,475.0	38.6	24.1	68.48	324.9	55.2	995.9	941.6	54.29	18.346			
11,400.0	10,840.0	10,881.7	10,475.0	39.2	24.2	68.42	406.5	51.7	992.5	937.5	55.06	18.027			
11,488.6	10,840.0	10,948.9	10,475.0	39.8	24.2	68.40	473.7	50.6	991.6	935.8	55.76	17.783			
11,500.0	10,840.0	10,960.0	10,475.0	39.8	24.2	68.40	484.8	50.5	991.6	935.7	55.89	17.740			
11,600.0	10,840.0	11,060.0	10,475.0	40.6	24.3	68.40	584.8	50.0	991.6	934.3	57.28	17.311			
11,700.0	10,840.0	11,160.0	10,475.0	41.4	24.4	68.40	684.8	49.4	991.6	932.8	58.88	16.843			
11,800.0	10,840.0	11,260.0	10,475.0	42.3	25.0	68.40	784.8	48.9	991.7	931.0	60.66	16.347			
11,900.0	10,840.0	11,360.0	10,475.0	43.2	26.2	68.40	884.8	48.4	991.7	929.1	62.63	15.834			
12,000.0	10,840.0	11,460.0	10,475.0	44.3	27.7	68.41	984.8	47.8	991.7	927.0	64.75	15.315			
12,100.0	10,840.0	11,560.0	10,475.0	45.3	29.2	68.41	1,084.8	47.3	991.8	924.7	67.02	14.798			
12,200.0	10,840.0	11,660.0	10,475.0	46.4	30.9	68.41	1,184.8	46.8	991.8	922.4	69.42	14.287			
12,300.0	10,840.0	11,760.0	10,475.0	47.6	32.6	68.41	1,284.8	46.2	991.8	919.9	71.94	13.788			
12,400.0	10,840.0	11,860.0	10,475.0	48.8	34.3	68.41	1,384.8	45.7	991.9	917.3	74.56	13.303			
12,500.0	10,840.0	11,960.0	10,475.0	50.0	36.1	68.41	1,484.8	45.2	991.9	914.6	77.27	12.836			
12,600.0	10,840.0	12,060.0	10,475.0	51.3	37.8	68.41	1,584.8	44.6	991.9	911.8	80.08	12.387			
12,700.0	10,840.0	12,160.0	10,475.0	52.7	39.6	68.41	1,684.8	44.1	991.9	909.0	82.96	11.957			
12,800.0	10,840.0	12,260.0	10,475.0	54.0	41.5	68.41	1,784.8	43.6	992.0	906.1	85.91	11.546			
12,900.0	10,840.0	12,360.0	10,475.0	55.5	43.3	68.41	1,884.8	43.0	992.0	903.1	88.93	11.155			
13,000.0	10,840.0	12,460.0	10,475.0	56.9	45.2	68.41	1,984.8	42.5	992.0	900.0	92.01	10.782			
13,100.0	10,840.0	12,560.0	10,475.0	58.4	47.0	68.41	2,084.8	41.9	992.1	896.9	95.14	10.428			
13,200.0	10,840.0	12,660.0	10,475.0	59.9	48.9	68.41	2,184.8	41.4	992.1	893.8	98.31	10.091			
13,300.0	10,840.0	12,760.0	10,475.0	61.4	50.8	68.41	2,284.8	40.9	992.1	890.6	101.53	9.771			
13,400.0	10,840.0	12,860.0	10,475.0	63.0	52.7	68.41	2,384.8	40.3	992.2	887.4	104.79	9.468			

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 553H
Project:	Hat Mesa	TVD Reference:	WELL @ 3704.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3704.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 553H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 553H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 553H - Prelim 2	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad C - Anderson Fed Com 502H - Anderson Fed Com 502H - Anderson Fed Com 502H - Prelim 2													Offset Site Error: 0.0 usft		
Survey Program: 0-MWD+HRGM				Rule Assigned:									Offset Well Error: 0.0 usft		
Reference		Offset		Semi Major Axis			Offset Wellbore Centre			Distance					
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		
13,500.0	10,840.0	12,960.0	10,475.0	64.6	54.6	68.42	2,484.8	39.8	992.2	884.1	108.09	9.179			
13,600.0	10,840.0	13,060.0	10,475.0	66.2	56.5	68.42	2,584.8	39.3	992.2	880.8	111.42	8.905			
13,700.0	10,840.0	13,160.0	10,475.0	67.8	58.5	68.42	2,684.8	38.7	992.2	877.5	114.78	8.644			
13,800.0	10,840.0	13,260.0	10,475.0	69.5	60.4	68.42	2,784.8	38.2	992.3	874.1	118.17	8.397			
13,900.0	10,840.0	13,360.0	10,475.0	71.1	62.3	68.42	2,884.8	37.7	992.3	870.7	121.59	8.161			
14,000.0	10,840.0	13,460.0	10,475.0	72.8	64.3	68.42	2,984.8	37.1	992.3	867.3	125.03	7.937			
14,100.0	10,840.0	13,560.0	10,475.0	74.5	66.2	68.42	3,084.8	36.6	992.4	863.9	128.49	7.723			
14,200.0	10,840.0	13,660.0	10,475.0	76.2	68.2	68.42	3,184.8	36.1	992.4	860.4	131.97	7.520			
14,300.0	10,840.0	13,760.0	10,475.0	78.0	70.1	68.42	3,284.8	35.5	992.4	856.9	135.47	7.326			
14,400.0	10,840.0	13,860.0	10,475.0	79.7	72.1	68.42	3,384.8	35.0	992.4	853.5	138.99	7.140			
14,500.0	10,840.0	13,960.0	10,475.0	81.5	74.0	68.42	3,484.8	34.4	992.5	849.9	142.53	6.963			
14,600.0	10,840.0	14,060.0	10,475.0	83.2	76.0	68.42	3,584.8	33.9	992.5	846.4	146.08	6.794			
14,700.0	10,840.0	14,160.0	10,475.0	85.0	78.0	68.42	3,684.8	33.4	992.5	842.9	149.64	6.633			
14,800.0	10,840.0	14,260.0	10,475.0	86.8	79.9	68.42	3,784.8	32.8	992.6	839.3	153.21	6.478			
14,900.0	10,840.0	14,360.0	10,475.0	88.6	81.9	68.42	3,884.8	32.3	992.6	835.8	156.80	6.330			
15,000.0	10,840.0	14,460.0	10,475.0	90.4	83.9	68.43	3,984.8	31.8	992.6	832.2	160.40	6.188			
15,100.0	10,840.0	14,560.0	10,475.0	92.2	85.8	68.43	4,084.8	31.2	992.7	828.6	164.01	6.052			
15,200.0	10,840.0	14,660.0	10,475.0	94.0	87.8	68.43	4,184.8	30.7	992.7	825.0	167.63	5.922			
15,300.0	10,840.0	14,760.0	10,475.0	95.9	89.8	68.43	4,284.8	30.2	992.7	821.4	171.26	5.796			
15,400.0	10,840.0	14,860.0	10,475.0	97.7	91.8	68.43	4,384.8	29.6	992.7	817.8	174.90	5.676			
15,500.0	10,840.0	14,960.0	10,475.0	99.6	93.8	68.43	4,484.8	29.1	992.8	814.2	178.55	5.560			
15,600.0	10,840.0	15,060.0	10,475.0	101.4	95.7	68.43	4,584.8	28.5	992.8	810.6	182.20	5.449			
15,700.0	10,840.0	15,160.0	10,475.0	103.3	97.7	68.43	4,684.8	28.0	992.8	807.0	185.86	5.342			
15,800.0	10,840.0	15,260.0	10,475.0	105.1	99.7	68.43	4,784.8	27.5	992.9	803.3	189.53	5.238			
15,900.0	10,840.0	15,360.0	10,475.0	107.0	101.7	68.43	4,884.8	26.9	992.9	799.7	193.21	5.139			
16,000.0	10,840.0	15,460.0	10,475.0	108.9	103.7	68.43	4,984.8	26.4	992.9	796.0	196.89	5.043			
16,100.0	10,840.0	15,560.0	10,475.0	110.8	105.7	68.43	5,084.8	25.9	992.9	792.4	200.57	4.951			
16,200.0	10,840.0	15,660.0	10,475.0	112.7	107.7	68.43	5,184.8	25.3	993.0	788.7	204.27	4.861			
16,300.0	10,840.0	15,760.0	10,475.0	114.6	109.6	68.43	5,284.8	24.8	993.0	785.0	207.96	4.775			
16,400.0	10,840.0	15,860.0	10,475.0	116.4	111.6	68.43	5,384.8	24.3	993.0	781.4	211.67	4.692			
16,500.0	10,840.0	15,960.0	10,475.0	118.3	113.6	68.44	5,484.8	23.7	993.1	777.7	215.37	4.611			
16,600.0	10,840.0	16,060.0	10,475.0	120.2	115.6	68.44	5,584.8	23.2	993.1	774.0	219.09	4.533			
16,700.0	10,840.0	16,160.0	10,475.0	122.2	117.6	68.44	5,684.8	22.7	993.1	770.3	222.80	4.457			
16,800.0	10,840.0	16,260.0	10,475.0	124.1	119.6	68.44	5,784.8	22.1	993.2	766.6	226.52	4.384			
16,900.0	10,840.0	16,360.0	10,475.0	126.0	121.6	68.44	5,884.8	21.6	993.2	762.9	230.24	4.314			
17,000.0	10,840.0	16,460.0	10,475.0	127.9	123.6	68.44	5,984.8	21.0	993.2	759.2	233.97	4.245			
17,100.0	10,840.0	16,560.0	10,475.0	129.8	125.6	68.44	6,084.8	20.5	993.2	755.5	237.70	4.179			
17,200.0	10,840.0	16,660.0	10,475.0	131.7	127.6	68.44	6,184.8	20.0	993.3	751.8	241.44	4.114			
17,300.0	10,840.0	16,760.0	10,475.0	133.7	129.6	68.44	6,284.8	19.4	993.3	748.1	245.17	4.051			
17,400.0	10,840.0	16,860.0	10,475.0	135.6	131.6	68.44	6,384.8	18.9	993.3	744.4	248.91	3.991			
17,500.0	10,840.0	16,960.0	10,475.0	137.5	133.6	68.44	6,484.8	18.4	993.4	740.7	252.66	3.932			
17,600.0	10,840.0	17,060.0	10,475.0	139.5	135.6	68.44	6,584.8	17.8	993.4	737.0	256.40	3.874			
17,694.0	10,840.0	17,154.0	10,475.0	141.3	137.5	68.44	6,678.7	17.3	993.4	733.5	259.92	3.822			
17,694.7	10,840.0	17,154.7	10,475.0	141.3	137.5	68.44	6,679.4	17.3	993.4	733.5	259.95	3.822			

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 553H
Project:	Hat Mesa	TVD Reference:	WELL @ 3704.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3704.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 553H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 553H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 553H - Prelim 2	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad C - Anderson Fed Com 506H - Anderson Fed Com 506H - Anderson Fed Com 506H - Prelim 2													Offset Site Error:	0.0 usft	
Survey Program: 0-MWD+HRGM				Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	89.75	0.3	66.1	66.1						
100.0	100.0	99.0	99.0	0.5	0.5	89.75	0.3	66.1	66.1	65.1	1.06	62.671			
200.0	200.0	199.0	199.0	1.7	1.7	89.75	0.3	66.1	66.1	62.7	3.41	19.380			
300.0	300.0	299.0	299.0	2.4	2.4	89.75	0.3	66.1	66.1	61.3	4.82	13.729			
400.0	400.0	399.0	399.0	3.0	2.9	89.75	0.3	66.1	66.1	60.2	5.90	11.202			
500.0	500.0	499.0	499.0	3.4	3.4	89.75	0.3	66.1	66.1	59.3	6.83	9.687			
600.0	600.0	599.0	599.0	3.8	3.8	89.75	0.3	66.1	66.1	58.5	7.64	8.649			
700.0	700.0	699.0	699.0	4.2	4.2	89.75	0.3	66.1	66.1	57.7	8.39	7.880			
800.0	800.0	799.0	799.0	4.5	4.5	89.75	0.3	66.1	66.1	57.0	9.08	7.281			
900.0	900.0	899.0	899.0	4.9	4.9	89.75	0.3	66.1	66.1	56.4	9.73	6.797			
1,000.0	1,000.0	999.0	999.0	5.2	5.2	89.75	0.3	66.1	66.1	55.8	10.34	6.395			
1,100.0	1,100.0	1,099.0	1,099.0	5.5	5.5	89.75	0.3	66.1	66.1	55.2	10.92	6.055			
1,200.0	1,200.0	1,199.0	1,199.0	5.7	5.7	89.75	0.3	66.1	66.1	54.6	11.48	5.761			
1,300.0	1,300.0	1,299.0	1,299.0	6.0	6.0	89.75	0.3	66.1	66.1	54.1	12.01	5.504			
1,400.0	1,400.0	1,399.0	1,399.0	6.3	6.3	89.75	0.3	66.1	66.1	53.6	12.53	5.277			
1,500.0	1,500.0	1,499.0	1,499.0	6.5	6.5	89.75	0.3	66.1	66.1	53.1	13.03	5.075			
1,600.0	1,600.0	1,599.0	1,599.0	6.8	6.8	89.75	0.3	66.1	66.1	52.6	13.51	4.892			
1,700.0	1,700.0	1,699.0	1,699.0	7.0	7.0	89.75	0.3	66.1	66.1	52.1	13.99	4.727			
1,800.0	1,800.0	1,799.0	1,799.0	7.2	7.2	89.75	0.3	66.1	66.1	51.7	14.45	4.576			
1,900.0	1,900.0	1,899.0	1,899.0	7.4	7.4	89.75	0.3	66.1	66.1	51.2	14.90	4.438			
2,000.0	2,000.0	1,999.0	1,999.0	7.7	7.7	89.75	0.3	66.1	66.1	50.8	15.34	4.311			
2,100.0	2,100.0	2,099.0	2,099.0	7.9	7.9	89.75	0.3	66.1	66.1	50.3	15.77	4.193			
2,200.0	2,200.0	2,199.0	2,199.0	8.1	8.1	89.75	0.3	66.1	66.1	49.9	16.19	4.084			
2,300.0	2,300.0	2,299.0	2,299.0	8.3	8.3	89.75	0.3	66.1	66.1	49.5	16.61	3.982			
2,400.0	2,400.0	2,399.0	2,399.0	8.5	8.5	89.75	0.3	66.1	66.1	49.1	17.01	3.886			
2,500.0	2,500.0	2,499.0	2,499.0	8.7	8.7	89.75	0.3	66.1	66.1	48.7	17.42	3.797			
2,600.0	2,600.0	2,599.0	2,599.0	8.9	8.9	89.75	0.3	66.1	66.1	48.3	17.81	3.712			
2,700.0	2,700.0	2,699.0	2,699.0	9.1	9.1	89.75	0.3	66.1	66.1	47.9	18.20	3.633			
2,800.0	2,800.0	2,799.0	2,799.0	9.3	9.3	89.75	0.3	66.1	66.1	47.5	18.58	3.558			
2,900.0	2,900.0	2,899.0	2,899.0	9.5	9.5	89.75	0.3	66.1	66.1	47.2	18.96	3.487			
3,000.0	3,000.0	2,999.0	2,999.0	9.7	9.7	89.75	0.3	66.1	66.1	46.8	19.34	3.419			
3,100.0	3,100.0	3,099.0	3,099.0	9.9	9.9	89.75	0.3	66.1	66.1	46.4	19.71	3.355			
3,200.0	3,200.0	3,199.0	3,199.0	10.0	10.0	89.75	0.3	66.1	66.1	46.0	20.07	3.294			
3,300.0	3,300.0	3,299.0	3,299.0	10.2	10.2	89.75	0.3	66.1	66.1	45.7	20.43	3.236			
3,400.0	3,400.0	3,399.0	3,399.0	10.4	10.4	89.75	0.3	66.1	66.1	45.3	20.79	3.180			
3,500.0	3,500.0	3,499.0	3,499.0	10.6	10.6	89.75	0.3	66.1	66.1	45.0	21.15	3.127			
3,600.0	3,600.0	3,599.0	3,599.0	10.7	10.7	89.75	0.3	66.1	66.1	44.6	21.50	3.076			
3,700.0	3,700.0	3,699.0	3,699.0	10.9	10.9	89.75	0.3	66.1	66.1	44.3	21.84	3.027			
3,800.0	3,800.0	3,799.0	3,799.0	11.1	11.1	89.75	0.3	66.1	66.1	43.9	22.19	2.980			
3,900.0	3,900.0	3,899.0	3,899.0	11.3	11.3	89.75	0.3	66.1	66.1	43.6	22.53	2.935			
4,000.0	4,000.0	3,999.0	3,999.0	11.4	11.4	89.75	0.3	66.1	66.1	43.2	22.87	2.891			
4,100.0	4,100.0	4,099.0	4,099.0	11.6	11.6	89.75	0.3	66.1	66.1	42.9	23.21	2.849			
4,200.0	4,200.0	4,199.0	4,199.0	11.8	11.8	89.75	0.3	66.1	66.1	42.6	23.54	2.809			
4,300.0	4,300.0	4,299.0	4,299.0	11.9	11.9	89.75	0.3	66.1	66.1	42.2	23.87	2.770			
4,400.0	4,400.0	4,399.0	4,399.0	12.1	12.1	89.75	0.3	66.1	66.1	41.9	24.20	2.732			
4,500.0	4,500.0	4,499.0	4,499.0	12.3	12.3	89.75	0.3	66.1	66.1	41.6	24.52	2.696			
4,600.0	4,600.0	4,599.0	4,599.0	12.4	12.4	89.75	0.3	66.1	66.1	41.3	24.85	2.661			
4,700.0	4,700.0	4,699.0	4,699.0	12.6	12.6	89.75	0.3	66.1	66.1	40.9	25.17	2.627			
4,800.0	4,800.0	4,799.0	4,799.0	12.7	12.7	89.75	0.3	66.1	66.1	40.6	25.49	2.594			
4,900.0	4,900.0	4,899.0	4,899.0	12.9	12.9	89.75	0.3	66.1	66.1	40.3	25.81	2.562			
5,000.0	5,000.0	4,999.0	4,999.0	13.1	13.1	89.75	0.3	66.1	66.1	40.0	26.12	2.531	CC, ES, SF		
5,100.0	5,100.0	5,099.1	5,099.0	13.2	13.1	-157.79	-0.6	66.1	66.9	40.6	26.31	2.542			

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 553H
Project:	Hat Mesa	TVD Reference:	WELL @ 3704.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3704.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 553H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 553H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 553H - Prelim 2	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad C - Anderson Fed Com 506H - Anderson Fed Com 506H - Anderson Fed Com 506H - Prelim 2													Offset Site Error: 0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.0 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.0	5,200.0	5,199.1	5,199.0	13.3	13.2	-156.45	-3.2	65.9	69.2	42.7	26.47	2.615	
5,300.0	5,299.9	5,299.0	5,298.8	13.4	13.3	-154.41	-7.5	65.7	73.2	46.5	26.61	2.749	
5,400.0	5,399.7	5,398.8	5,398.5	13.5	13.4	-152.68	-12.5	65.5	78.8	52.0	26.77	2.941	
5,500.0	5,499.4	5,498.5	5,498.1	13.7	13.5	-151.73	-17.4	65.2	85.9	59.0	26.97	3.186	
5,600.0	5,599.0	5,598.2	5,597.7	13.9	13.6	-151.21	-22.4	65.0	93.9	66.7	27.19	3.454	
5,700.0	5,698.6	5,697.9	5,697.2	14.1	13.8	-150.77	-27.3	64.7	101.9	74.5	27.43	3.715	
5,800.0	5,798.2	5,797.5	5,796.8	14.3	13.9	-150.40	-32.3	64.5	109.9	82.2	27.68	3.970	
5,900.0	5,897.8	5,897.2	5,896.3	14.5	14.1	-150.08	-37.3	64.2	117.9	89.9	27.94	4.218	
6,000.0	5,997.5	5,996.9	5,995.9	14.7	14.3	-149.80	-42.2	64.0	125.9	97.6	28.22	4.460	
6,100.0	6,097.1	6,096.6	6,095.4	15.0	14.5	-149.55	-47.2	63.7	133.9	105.3	28.52	4.694	
6,200.0	6,196.7	6,196.2	6,195.0	15.3	14.7	-149.33	-52.1	63.5	141.9	113.0	28.82	4.922	
6,300.0	6,296.3	6,295.9	6,294.6	15.6	14.9	-149.14	-57.1	63.2	149.9	120.7	29.14	5.142	
6,400.0	6,395.9	6,395.6	6,394.1	15.9	15.2	-148.96	-62.1	63.0	157.9	128.4	29.47	5.356	
6,500.0	6,495.6	6,495.3	6,493.7	16.2	15.4	-148.80	-67.0	62.8	165.9	136.0	29.81	5.563	
6,600.0	6,595.2	6,595.0	6,593.2	16.5	15.7	-148.66	-72.0	62.5	173.9	143.7	30.17	5.763	
6,700.0	6,694.8	6,694.6	6,692.8	16.9	16.0	-148.53	-76.9	62.3	181.9	151.3	30.53	5.957	
6,800.0	6,794.4	6,794.3	6,792.3	17.2	16.2	-148.40	-81.9	62.0	189.9	159.0	30.90	6.144	
6,900.0	6,894.0	6,894.0	6,891.9	17.6	16.5	-148.29	-86.9	61.8	197.9	166.6	31.29	6.325	
7,000.0	6,993.7	6,993.7	6,991.4	17.9	16.8	-148.19	-91.8	61.5	205.9	174.2	31.68	6.499	
7,100.0	7,093.3	7,093.4	7,091.0	18.3	17.1	-148.10	-96.8	61.3	213.9	181.8	32.08	6.668	
7,200.0	7,192.9	7,193.0	7,190.5	18.7	17.4	-148.01	-101.7	61.0	221.9	189.4	32.49	6.830	
7,300.0	7,292.5	7,292.7	7,290.1	19.1	17.8	-147.93	-106.7	60.8	229.9	197.0	32.90	6.987	
7,400.0	7,392.1	7,392.4	7,389.7	19.5	18.1	-147.85	-111.7	60.5	237.9	204.6	33.33	7.139	
7,500.0	7,491.8	7,492.1	7,489.2	19.9	18.4	-147.78	-116.6	60.3	245.9	212.2	33.76	7.285	
7,600.0	7,591.4	7,591.7	7,588.8	20.3	18.8	-147.71	-121.6	60.0	253.9	219.7	34.20	7.426	
7,700.0	7,691.0	7,691.4	7,688.3	20.7	19.1	-147.65	-126.5	59.8	261.9	227.3	34.64	7.562	
7,800.0	7,790.6	7,791.1	7,787.9	21.1	19.5	-147.59	-131.5	59.5	270.0	234.9	35.09	7.693	
7,900.0	7,890.2	7,890.8	7,887.4	21.6	19.8	-147.54	-136.5	59.3	278.0	242.4	35.55	7.820	
8,000.0	7,989.9	7,990.5	7,987.0	22.0	20.2	-147.48	-141.4	59.0	286.0	250.0	36.01	7.942	
8,100.0	8,089.5	8,090.1	8,086.5	22.5	20.5	-147.43	-146.4	58.8	294.0	257.5	36.47	8.060	
8,200.0	8,189.1	8,189.8	8,186.1	22.9	20.9	-147.39	-151.3	58.5	302.0	265.0	36.95	8.174	
8,300.0	8,288.7	8,289.5	8,285.6	23.3	21.3	-147.34	-156.3	58.3	310.0	272.6	37.42	8.284	
8,400.0	8,388.3	8,389.2	8,385.2	23.8	21.6	-147.30	-161.3	58.0	318.0	280.1	37.91	8.390	
8,500.0	8,487.9	8,488.8	8,484.8	24.3	22.0	-147.26	-166.2	57.8	326.0	287.6	38.39	8.492	
8,600.0	8,587.6	8,588.5	8,584.3	24.7	22.4	-147.22	-171.2	57.5	334.0	295.2	38.88	8.591	
8,700.0	8,687.2	8,688.2	8,683.9	25.2	22.8	-147.19	-176.1	57.3	342.1	302.7	39.38	8.686	
8,800.0	8,786.8	8,787.9	8,783.4	25.6	23.2	-147.15	-181.1	57.0	350.1	310.2	39.88	8.779	
8,900.0	8,886.4	8,887.6	8,883.0	26.1	23.6	-147.12	-186.1	56.8	358.1	317.7	40.38	8.868	
9,000.0	8,986.0	8,987.2	8,982.5	26.6	24.0	-147.09	-191.0	56.6	366.1	325.2	40.89	8.954	
9,100.0	9,085.7	9,087.5	9,082.7	27.1	24.3	-147.12	-195.6	56.3	374.0	332.7	41.37	9.042	
9,200.0	9,185.3	9,188.1	9,183.3	27.5	24.7	-147.40	-198.5	56.2	381.8	339.9	41.89	9.114	
9,300.0	9,284.9	9,288.6	9,283.8	28.0	24.9	-147.92	-199.7	56.1	389.3	346.9	42.42	9.177	
9,400.0	9,384.5	9,388.4	9,383.5	28.5	25.0	-148.59	-199.7	56.1	396.7	353.7	42.98	9.231	
9,500.0	9,484.1	9,496.8	9,491.7	29.0	24.8	-149.99	-194.7	56.1	403.5	360.0	43.56	9.264	
9,600.0	9,583.8	9,602.4	9,593.6	29.5	24.5	-154.32	-168.0	55.9	408.4	364.0	44.43	9.194	
9,700.0	9,683.4	9,691.6	9,673.4	29.9	24.1	-160.21	-128.5	55.7	415.8	370.3	45.51	9.135	
9,800.0	9,783.0	9,763.2	9,731.3	30.4	23.9	-166.16	-86.4	55.5	430.7	384.0	46.71	9.220	
9,900.0	9,882.6	9,819.6	9,772.1	30.9	23.7	-171.39	-47.5	55.3	456.8	408.9	47.93	9.532	
10,000.0	9,982.2	9,864.0	9,800.8	31.4	23.5	-175.70	-13.6	55.1	495.2	446.1	49.06	10.094	
10,100.0	10,081.9	9,900.0	9,821.7	31.9	23.4	-179.24	15.7	54.9	545.1	495.0	50.07	10.887	
10,145.3	10,127.0	9,913.0	9,828.6	32.1	23.4	179.48	26.6	54.8	571.0	520.6	50.47	11.314	
10,150.0	10,131.7	9,914.3	9,829.3	32.1	23.4	178.88	27.8	54.8	573.9	523.3	50.51	11.360	

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 553H
Project:	Hat Mesa	TVD Reference:	WELL @ 3704.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3704.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 553H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 553H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 553H - Prelim 2	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad C - Anderson Fed Com 506H - Anderson Fed Com 506H - Anderson Fed Com 506H - Prelim 2													Offset Site Error: 0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,175.0	10,156.5	9,925.0	9,834.8	32.3	23.4	176.19	36.9	54.8	589.8	539.0	50.74	11.623	
10,200.0	10,181.1	9,925.0	9,834.8	32.4	23.4	175.21	36.9	54.8	607.1	556.1	50.96	11.913	
10,225.0	10,205.4	9,932.9	9,838.7	32.6	23.4	173.54	43.8	54.7	625.7	574.5	51.18	12.225	
10,250.0	10,229.5	9,938.0	9,841.2	32.8	23.3	172.12	48.2	54.7	645.5	594.1	51.39	12.561	
10,275.0	10,253.1	9,942.6	9,843.4	33.0	23.3	170.63	52.3	54.7	666.3	614.7	51.58	12.918	
10,300.0	10,276.3	9,950.0	9,846.9	33.1	23.3	168.53	58.8	54.7	687.9	636.2	51.76	13.292	
10,325.0	10,298.9	9,950.0	9,846.9	33.3	23.3	167.05	58.8	54.7	710.4	658.4	51.92	13.683	
10,350.0	10,321.0	9,950.0	9,846.9	33.5	23.3	165.13	58.8	54.7	733.4	681.4	52.06	14.087	
10,375.0	10,342.4	9,950.0	9,846.9	33.7	23.3	162.52	58.8	54.7	757.1	704.9	52.20	14.504	
10,400.0	10,363.1	9,959.0	9,850.9	33.9	23.3	157.14	66.9	54.6	781.0	728.7	52.33	14.926	
10,425.0	10,383.0	9,961.1	9,851.8	34.0	23.3	150.86	68.8	54.6	805.4	753.0	52.44	15.360	
10,443.8	10,397.5	9,962.4	9,852.4	34.2	23.3	143.88	70.0	54.6	823.9	771.4	52.51	15.690	
10,450.0	10,402.2	9,962.9	9,852.6	34.2	23.3	140.23	70.3	54.6	830.0	777.5	52.53	15.800	
10,475.0	10,421.3	9,964.9	9,853.5	34.4	23.3	128.21	72.2	54.6	854.5	801.9	52.62	16.239	
10,500.0	10,440.5	9,967.3	9,854.5	34.5	23.3	119.05	74.4	54.6	878.8	826.1	52.71	16.673	
10,525.0	10,459.8	9,975.0	9,857.7	34.7	23.3	111.51	81.3	54.5	902.9	850.1	52.80	17.100	
10,550.0	10,479.1	9,975.0	9,857.7	34.8	23.3	105.14	81.3	54.5	926.6	873.7	52.88	17.522	
10,575.0	10,498.4	9,975.0	9,857.7	34.9	23.3	99.42	81.3	54.5	949.9	896.9	52.95	17.938	
10,600.0	10,517.6	9,975.0	9,857.7	35.1	23.3	94.20	81.3	54.5	972.8	919.8	53.02	18.347	
10,625.0	10,536.7	9,985.6	9,862.0	35.2	23.2	89.50	91.1	54.5	995.2	942.1	53.10	18.740	

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 553H
Project:	Hat Mesa	TVD Reference:	WELL @ 3704.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3704.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 553H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 553H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 553H - Prelim 2	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad C - Anderson Fed Com 554H - Anderson Fed Com 554H - Anderson Fed Com 554H - Prelim 2											Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM											Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
0.0	0.0	0.0	0.0	0.0	0.0	89.53	1.1	131.5	131.5			
100.0	100.0	99.0	99.0	0.5	0.5	89.53	1.1	131.5	131.5	130.5	1.06	124.674
200.0	200.0	199.0	199.0	1.7	1.7	89.53	1.1	131.5	131.5	128.1	3.41	38.553
300.0	300.0	299.0	299.0	2.4	2.4	89.53	1.1	131.5	131.5	126.7	4.82	27.312
400.0	400.0	399.0	399.0	3.0	2.9	89.53	1.1	131.5	131.5	125.6	5.90	22.284
500.0	500.0	499.0	499.0	3.4	3.4	89.53	1.1	131.5	131.5	124.7	6.83	19.270
600.0	600.0	599.0	599.0	3.8	3.8	89.53	1.1	131.5	131.5	123.9	7.64	17.206
700.0	700.0	699.0	699.0	4.2	4.2	89.53	1.1	131.5	131.5	123.1	8.39	15.677
800.0	800.0	799.0	799.0	4.5	4.5	89.53	1.1	131.5	131.5	122.5	9.08	14.485
900.0	900.0	899.0	899.0	4.9	4.9	89.53	1.1	131.5	131.5	121.8	9.73	13.522
1,000.0	1,000.0	999.0	999.0	5.2	5.2	89.53	1.1	131.5	131.5	121.2	10.34	12.723
1,100.0	1,100.0	1,099.0	1,099.0	5.5	5.5	89.53	1.1	131.5	131.5	120.6	10.92	12.045
1,200.0	1,200.0	1,199.0	1,199.0	5.7	5.7	89.53	1.1	131.5	131.5	120.1	11.48	11.461
1,300.0	1,300.0	1,299.0	1,299.0	6.0	6.0	89.53	1.1	131.5	131.5	119.5	12.01	10.950
1,400.0	1,400.0	1,399.0	1,399.0	6.3	6.3	89.53	1.1	131.5	131.5	119.0	12.53	10.498
1,500.0	1,500.0	1,499.0	1,499.0	6.5	6.5	89.53	1.1	131.5	131.5	118.5	13.03	10.095
1,600.0	1,600.0	1,599.0	1,599.0	6.8	6.8	89.53	1.1	131.5	131.5	118.0	13.51	9.733
1,700.0	1,700.0	1,699.0	1,699.0	7.0	7.0	89.53	1.1	131.5	131.5	117.5	13.99	9.404
1,800.0	1,800.0	1,799.0	1,799.0	7.2	7.2	89.53	1.1	131.5	131.5	117.1	14.45	9.104
1,900.0	1,900.0	1,899.0	1,899.0	7.4	7.4	89.53	1.1	131.5	131.5	116.6	14.90	8.829
2,000.0	2,000.0	1,999.0	1,999.0	7.7	7.7	89.53	1.1	131.5	131.5	116.2	15.34	8.576
2,100.0	2,100.0	2,099.0	2,099.0	7.9	7.9	89.53	1.1	131.5	131.5	115.8	15.77	8.342
2,200.0	2,200.0	2,199.0	2,199.0	8.1	8.1	89.53	1.1	131.5	131.5	115.3	16.19	8.124
2,300.0	2,300.0	2,299.0	2,299.0	8.3	8.3	89.53	1.1	131.5	131.5	114.9	16.61	7.921
2,400.0	2,400.0	2,399.0	2,399.0	8.5	8.5	89.53	1.1	131.5	131.5	114.5	17.01	7.731
2,500.0	2,500.0	2,499.0	2,499.0	8.7	8.7	89.53	1.1	131.5	131.5	114.1	17.42	7.553
2,600.0	2,600.0	2,599.0	2,599.0	8.9	8.9	89.53	1.1	131.5	131.5	113.7	17.81	7.385
2,700.0	2,700.0	2,699.0	2,699.0	9.1	9.1	89.53	1.1	131.5	131.5	113.3	18.20	7.227
2,800.0	2,800.0	2,799.0	2,799.0	9.3	9.3	89.53	1.1	131.5	131.5	112.9	18.58	7.078
2,900.0	2,900.0	2,899.0	2,899.0	9.5	9.5	89.53	1.1	131.5	131.5	112.6	18.96	6.936
3,000.0	3,000.0	2,999.0	2,999.0	9.7	9.7	89.53	1.1	131.5	131.5	112.2	19.34	6.802
3,100.0	3,100.0	3,099.0	3,099.0	9.9	9.9	89.53	1.1	131.5	131.5	111.8	19.71	6.674
3,200.0	3,200.0	3,199.0	3,199.0	10.0	10.0	89.53	1.1	131.5	131.5	111.5	20.07	6.553
3,300.0	3,300.0	3,299.0	3,299.0	10.2	10.2	89.53	1.1	131.5	131.5	111.1	20.43	6.437
3,400.0	3,400.0	3,399.0	3,399.0	10.4	10.4	89.53	1.1	131.5	131.5	110.7	20.79	6.326
3,500.0	3,500.0	3,499.0	3,499.0	10.6	10.6	89.53	1.1	131.5	131.5	110.4	21.15	6.220
3,600.0	3,600.0	3,599.0	3,599.0	10.7	10.7	89.53	1.1	131.5	131.5	110.0	21.50	6.119
3,700.0	3,700.0	3,699.0	3,699.0	10.9	10.9	89.53	1.1	131.5	131.5	109.7	21.84	6.021
3,800.0	3,800.0	3,799.0	3,799.0	11.1	11.1	89.53	1.1	131.5	131.5	109.3	22.19	5.928
3,900.0	3,900.0	3,899.0	3,899.0	11.3	11.3	89.53	1.1	131.5	131.5	109.0	22.53	5.838
4,000.0	4,000.0	3,999.0	3,999.0	11.4	11.4	89.53	1.1	131.5	131.5	108.7	22.87	5.751
4,100.0	4,100.0	4,099.0	4,099.0	11.6	11.6	89.53	1.1	131.5	131.5	108.3	23.21	5.668
4,200.0	4,200.0	4,199.0	4,199.0	11.8	11.8	89.53	1.1	131.5	131.5	108.0	23.54	5.588
4,300.0	4,300.0	4,299.0	4,299.0	11.9	11.9	89.53	1.1	131.5	131.5	107.7	23.87	5.511
4,400.0	4,400.0	4,399.0	4,399.0	12.1	12.1	89.53	1.1	131.5	131.5	107.3	24.20	5.436
4,500.0	4,500.0	4,499.0	4,499.0	12.3	12.3	89.53	1.1	131.5	131.5	107.0	24.52	5.363
4,600.0	4,600.0	4,599.0	4,599.0	12.4	12.4	89.53	1.1	131.5	131.5	106.7	24.85	5.293
4,700.0	4,700.0	4,699.0	4,699.0	12.6	12.6	89.53	1.1	131.5	131.5	106.4	25.17	5.226
4,800.0	4,800.0	4,799.0	4,799.0	12.7	12.7	89.53	1.1	131.5	131.5	106.0	25.49	5.160
4,900.0	4,900.0	4,899.0	4,899.0	12.9	12.9	89.53	1.1	131.5	131.5	105.7	25.81	5.097
5,000.0	5,000.0	4,999.0	4,999.0	13.1	13.1	89.53	1.1	131.5	131.5	105.4	26.12	5.035 CC, ES
5,100.0	5,100.0	5,099.0	5,099.0	13.2	13.2	-158.60	1.1	131.5	132.3	106.0	26.39	5.016

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 553H
Project:	Hat Mesa	TVD Reference:	WELL @ 3704.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3704.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 553H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 553H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 553H - Prelim 2	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad C - Anderson Fed Com 554H - Anderson Fed Com 554H - Anderson Fed Com 554H - Prelim 2													Offset Site Error: 0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.0 usft
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	5,199.0	5,199.0	13.3	13.4	-159.00	1.1	131.5	134.8	108.1	26.64	5.059	
5,300.0	5,299.9	5,298.9	5,298.9	13.4	13.5	-159.63	1.1	131.5	138.9	112.0	26.91	5.160	
5,400.0	5,399.7	5,398.7	5,398.7	13.5	13.7	-160.45	1.1	131.5	144.6	117.4	27.19	5.317	
5,500.0	5,499.4	5,498.6	5,498.5	13.7	13.8	-161.10	0.2	131.5	152.0	124.5	27.42	5.541	
5,600.0	5,599.0	5,598.4	5,598.4	13.9	13.8	-161.19	-2.4	131.5	160.0	132.4	27.64	5.789	
5,700.0	5,698.6	5,698.2	5,698.1	14.1	13.9	-160.79	-6.3	131.4	168.0	140.2	27.82	6.039	
5,800.0	5,798.2	5,797.8	5,797.6	14.3	13.9	-160.39	-10.4	131.4	176.0	147.9	28.06	6.271	
5,900.0	5,897.8	5,897.5	5,897.2	14.5	14.0	-160.02	-14.5	131.3	184.0	155.6	28.33	6.493	
6,000.0	5,997.5	5,997.2	5,996.8	14.7	14.2	-159.68	-18.6	131.2	191.9	163.3	28.61	6.708	
6,100.0	6,097.1	6,096.9	6,096.4	15.0	14.3	-159.37	-22.7	131.2	199.9	171.0	28.91	6.915	
6,200.0	6,196.7	6,196.5	6,196.0	15.3	14.4	-159.09	-26.8	131.1	207.9	178.7	29.22	7.115	
6,300.0	6,296.3	6,296.2	6,295.6	15.6	14.6	-158.83	-30.9	131.0	215.9	186.4	29.55	7.308	
6,400.0	6,395.9	6,395.9	6,395.2	15.9	14.8	-158.58	-35.0	131.0	223.9	194.1	29.89	7.493	
6,500.0	6,495.6	6,495.6	6,494.8	16.2	15.0	-158.35	-39.1	130.9	232.0	201.7	30.24	7.672	
6,600.0	6,595.2	6,595.2	6,594.4	16.5	15.1	-158.14	-43.2	130.9	240.0	209.4	30.60	7.843	
6,700.0	6,694.8	6,694.9	6,694.0	16.9	15.4	-157.94	-47.3	130.8	248.0	217.0	30.97	8.008	
6,800.0	6,794.4	6,794.6	6,793.5	17.2	15.6	-157.75	-51.4	130.7	256.0	224.7	31.35	8.166	
6,900.0	6,894.0	6,894.3	6,893.1	17.6	15.8	-157.58	-55.5	130.7	264.0	232.3	31.74	8.319	
7,000.0	6,993.7	6,993.9	6,992.7	17.9	16.0	-157.41	-59.6	130.6	272.1	239.9	32.14	8.465	
7,100.0	7,093.3	7,093.6	7,092.3	18.3	16.3	-157.26	-63.7	130.6	280.1	247.5	32.55	8.605	
7,200.0	7,192.9	7,193.3	7,191.9	18.7	16.5	-157.11	-67.8	130.5	288.1	255.1	32.97	8.740	
7,300.0	7,292.5	7,293.0	7,291.5	19.1	16.8	-156.97	-71.9	130.4	296.1	262.8	33.39	8.869	
7,400.0	7,392.1	7,392.6	7,391.1	19.5	17.1	-156.84	-75.9	130.4	304.2	270.4	33.82	8.993	
7,500.0	7,491.8	7,492.3	7,490.7	19.9	17.3	-156.71	-80.0	130.3	312.2	278.0	34.26	9.112	
7,600.0	7,591.4	7,592.0	7,590.3	20.3	17.6	-156.59	-84.1	130.2	320.2	285.5	34.71	9.227	
7,700.0	7,691.0	7,691.7	7,689.9	20.7	17.9	-156.48	-88.2	130.2	328.3	293.1	35.16	9.337	
7,800.0	7,790.6	7,791.3	7,789.4	21.1	18.2	-156.37	-92.3	130.1	336.3	300.7	35.62	9.442	
7,900.0	7,890.2	7,891.0	7,889.0	21.6	18.5	-156.27	-96.4	130.1	344.4	308.3	36.08	9.544	
8,000.0	7,989.9	7,990.7	7,988.6	22.0	18.8	-156.17	-100.5	130.0	352.4	315.9	36.55	9.641	
8,100.0	8,089.5	8,090.4	8,088.2	22.5	19.1	-156.08	-104.6	129.9	360.4	323.4	37.03	9.735	
8,200.0	8,189.1	8,190.0	8,187.8	22.9	19.4	-155.99	-108.7	129.9	368.5	331.0	37.51	9.825	
8,300.0	8,288.7	8,289.7	8,287.4	23.3	19.8	-155.91	-112.8	129.8	376.5	338.5	37.99	9.912	
8,400.0	8,388.3	8,389.4	8,387.0	23.8	20.1	-155.82	-116.9	129.8	384.6	346.1	38.48	9.995	
8,500.0	8,487.9	8,489.1	8,486.6	24.3	20.4	-155.75	-121.0	129.7	392.6	353.7	38.97	10.075	
8,600.0	8,587.6	8,588.7	8,586.2	24.7	20.8	-155.67	-125.1	129.6	400.7	361.2	39.47	10.152	
8,700.0	8,687.2	8,688.4	8,685.8	25.2	21.1	-155.60	-129.2	129.6	408.7	368.7	39.97	10.226	
8,800.0	8,786.8	8,788.1	8,785.4	25.6	21.5	-155.53	-133.3	129.5	416.8	376.3	40.47	10.297	
8,900.0	8,886.4	8,887.8	8,884.9	26.1	21.8	-155.46	-137.4	129.5	424.8	383.8	40.98	10.366	
9,000.0	8,986.0	8,987.4	8,984.5	26.6	22.2	-155.40	-141.5	129.4	432.9	391.4	41.49	10.432	
9,100.0	9,085.7	9,087.1	9,084.1	27.1	22.5	-155.33	-145.6	129.3	440.9	398.9	42.01	10.496	
9,200.0	9,185.3	9,186.8	9,183.7	27.5	22.9	-155.27	-149.7	129.3	449.0	406.4	42.53	10.557	
9,300.0	9,284.9	9,286.5	9,283.3	28.0	23.3	-155.22	-153.7	129.2	457.0	414.0	43.05	10.616	
9,400.0	9,384.5	9,386.1	9,382.9	28.5	23.6	-155.16	-157.8	129.1	465.1	421.5	43.57	10.673	
9,500.0	9,484.1	9,485.8	9,482.5	29.0	24.0	-155.11	-161.9	129.1	473.1	429.0	44.10	10.728	
9,600.0	9,583.8	9,585.5	9,582.1	29.5	24.4	-155.05	-166.0	129.0	481.2	436.5	44.63	10.781	
9,700.0	9,683.4	9,685.1	9,681.7	29.9	24.8	-155.00	-170.1	129.0	489.2	444.0	45.16	10.832	
9,800.0	9,783.0	9,784.8	9,781.3	30.4	25.1	-154.96	-174.2	128.9	497.3	451.6	45.70	10.882	
9,900.0	9,882.6	9,884.5	9,880.8	30.9	25.5	-154.91	-178.3	128.8	505.3	459.1	46.23	10.929	
10,000.0	9,982.2	9,984.2	9,980.4	31.4	25.9	-154.86	-182.4	128.8	513.4	466.6	46.77	10.975	
10,100.0	10,081.9	10,083.8	10,080.0	31.9	26.3	-154.82	-186.5	128.7	521.4	474.1	47.32	11.020	
10,145.3	10,127.0	10,129.0	10,125.2	32.1	26.5	-154.80	-188.4	128.7	525.1	477.5	47.55	11.042	
10,150.0	10,131.7	10,133.7	10,129.8	32.1	26.5	-155.22	-188.6	128.7	525.5	477.9	47.57	11.045	

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 553H
Project:	Hat Mesa	TVD Reference:	WELL @ 3704.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3704.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 553H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 553H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 553H - Prelim 2	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad C - Anderson Fed Com 554H - Anderson Fed Com 554H - Anderson Fed Com 554H - Prelim 2													Offset Site Error: 0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.0 usft
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	
10,175.0	10,156.5	10,158.5	10,154.6	32.3	26.6	-156.49	-189.6	128.7	528.3	480.6	47.72	11.070	
10,200.0	10,181.1	10,183.2	10,179.3	32.4	26.7	-157.04	-190.6	128.7	532.4	484.5	47.90	11.113	
10,225.0	10,205.4	10,207.6	10,203.7	32.6	26.8	-157.32	-191.6	128.6	537.6	489.5	48.10	11.178	
10,250.0	10,229.5	10,231.7	10,227.7	32.8	26.9	-157.45	-192.6	128.6	544.1	495.8	48.30	11.265	
10,275.0	10,253.1	10,255.4	10,251.4	33.0	26.9	-157.50	-193.6	128.6	551.7	503.2	48.51	11.373	
10,300.0	10,276.3	10,278.7	10,274.7	33.1	27.0	-157.48	-194.5	128.6	560.5	511.8	48.73	11.502	
10,325.0	10,298.9	10,301.5	10,297.5	33.3	27.1	-157.42	-195.3	128.6	570.4	521.5	48.95	11.652	
10,350.0	10,321.0	10,323.7	10,319.7	33.5	27.2	-157.32	-196.1	128.6	581.5	532.3	49.19	11.820	
10,375.0	10,342.4	10,345.3	10,341.3	33.7	27.3	-157.17	-196.7	128.6	593.6	544.2	49.44	12.007	
10,400.0	10,363.1	10,366.1	10,362.1	33.9	27.3	-156.96	-197.3	128.6	606.8	557.1	49.68	12.213	
10,425.0	10,383.0	10,386.2	10,382.1	34.0	27.4	-156.70	-197.7	128.5	621.1	571.1	49.93	12.438	
10,443.8	10,397.5	10,400.7	10,396.6	34.2	27.5	-156.45	-198.0	128.5	632.4	582.3	50.12	12.620	
10,450.0	10,402.2	10,405.4	10,401.4	34.2	27.5	-158.01	-198.1	128.5	636.3	586.1	50.17	12.682	
10,475.0	10,421.3	10,424.5	10,420.5	34.4	27.5	-164.28	-198.4	128.5	651.9	601.6	50.39	12.938	
10,500.0	10,440.5	10,443.7	10,439.6	34.5	27.5	-170.55	-198.6	128.5	667.7	617.1	50.59	13.200	
10,525.0	10,459.8	10,462.9	10,458.9	34.7	27.6	-176.76	-198.8	128.5	683.6	632.8	50.77	13.465	
10,550.0	10,479.1	10,482.2	10,478.1	34.8	27.6	177.13	-198.9	128.5	699.4	648.5	50.93	13.733	
10,575.0	10,498.4	10,501.4	10,497.4	34.9	27.6	171.18	-198.9	128.5	715.3	664.2	51.08	14.005	
10,600.0	10,517.6	10,520.6	10,516.6	35.1	27.6	165.42	-198.9	128.5	731.1	679.9	51.20	14.278	
10,625.0	10,536.7	10,539.7	10,535.7	35.2	27.7	159.90	-198.9	128.5	746.8	695.5	51.32	14.552	
10,650.0	10,555.6	10,558.6	10,554.6	35.3	27.7	154.64	-198.9	128.5	762.4	711.0	51.41	14.828	
10,675.0	10,574.2	10,577.3	10,573.2	35.5	27.7	149.65	-198.9	128.5	777.8	726.3	51.49	15.105	
10,700.0	10,592.6	10,595.7	10,591.6	35.6	27.7	144.95	-198.9	128.5	793.1	741.6	51.56	15.383	
10,725.0	10,610.7	10,613.7	10,609.7	35.7	27.7	140.53	-198.9	128.5	808.3	756.7	51.61	15.662	
10,750.0	10,628.4	10,631.4	10,627.4	35.8	27.7	136.40	-198.9	128.5	823.2	771.6	51.64	15.942	
10,775.0	10,645.6	10,648.7	10,644.6	36.0	27.7	132.55	-198.9	128.5	838.0	786.4	51.66	16.222	
10,800.0	10,662.4	10,665.4	10,661.4	36.1	27.7	128.96	-198.9	128.5	852.7	801.0	51.67	16.503	
10,825.0	10,678.6	10,684.6	10,680.6	36.2	27.7	125.76	-198.9	128.5	867.1	815.4	51.67	16.781	
10,850.0	10,694.3	10,711.3	10,707.2	36.3	27.7	123.15	-197.7	128.4	881.2	829.5	51.70	17.046	
10,875.0	10,709.4	10,739.9	10,735.7	36.4	27.6	120.84	-194.8	128.0	894.9	843.2	51.73	17.299	
10,900.0	10,723.8	10,771.0	10,766.4	36.5	27.5	118.82	-189.7	127.4	908.2	856.4	51.79	17.535	
10,925.0	10,737.5	10,805.1	10,799.5	36.6	27.3	117.09	-181.9	126.5	920.9	869.0	51.88	17.751	
10,950.0	10,750.5	10,842.6	10,835.2	36.7	27.2	115.64	-170.5	125.2	933.0	881.0	52.00	17.940	
10,975.0	10,762.7	10,884.2	10,873.7	36.8	27.0	114.45	-154.8	123.3	944.4	892.2	52.19	18.094	
11,000.0	10,774.1	10,920.0	10,905.5	36.9	26.9	113.19	-138.5	121.3	955.0	902.6	52.36	18.240	
11,025.0	10,784.7	10,970.3	10,948.0	37.1	26.7	112.47	-111.9	118.2	964.7	912.0	52.70	18.303	
11,050.0	10,794.5	11,040.3	11,002.1	37.2	26.4	112.23	-67.9	112.9	973.2	919.9	53.37	18.237	
11,075.0	10,803.3	11,104.3	11,045.3	37.3	26.2	111.75	-21.1	107.4	980.5	926.5	54.06	18.137	
11,100.0	10,811.2	11,174.1	11,084.8	37.4	26.0	111.28	36.0	100.6	986.4	931.4	54.96	17.949	
11,125.0	10,818.3	11,248.3	11,117.1	37.6	25.8	110.72	102.3	92.7	990.6	934.6	56.03	17.681	
11,150.0	10,824.3	11,325.1	11,139.3	37.7	25.7	110.01	175.2	84.0	993.2	936.0	57.23	17.354	
11,175.0	10,829.4	11,401.8	11,149.4	37.8	25.7	109.13	250.6	75.1	994.0	935.5	58.48	16.997	
11,200.0	10,833.5	11,440.3	11,150.0	38.0	25.7	108.54	288.8	70.5	993.3	934.3	59.03	16.826	
11,225.0	10,836.6	11,459.0	11,150.0	38.1	25.7	108.29	307.4	68.4	992.2	933.0	59.24	16.749	
11,250.0	10,838.7	11,477.7	11,150.0	38.3	25.7	108.21	326.0	66.5	990.8	931.4	59.46	16.664	
11,275.0	10,839.8	11,500.0	11,150.0	38.4	25.7	108.29	348.2	64.3	989.2	929.4	59.77	16.550	
11,289.8	10,840.0	11,500.0	11,150.0	38.5	25.7	108.40	348.2	64.3	988.0	928.3	59.68	16.554	
11,300.0	10,840.0	11,515.3	11,150.0	38.6	25.7	108.42	363.4	62.9	987.2	927.2	59.98	16.459	
11,400.0	10,840.0	11,600.0	11,150.0	39.2	25.7	108.53	447.9	56.6	980.6	919.2	61.39	15.972	
11,500.0	10,840.0	11,666.0	11,150.0	39.8	25.8	108.58	513.8	53.4	976.3	913.8	62.50	15.620	
11,600.0	10,840.0	11,741.6	11,150.0	40.6	25.9	108.61	589.4	51.6	974.6	910.8	63.86	15.263	
11,617.4	10,840.0	11,754.8	11,150.0	40.7	25.9	108.61	602.5	51.5	974.6	910.5	64.09	15.206	

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



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 553H
Project:	Hat Mesa	TVD Reference:	WELL @ 3704.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3704.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 553H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 553H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 553H - Prelim 2	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad C - Anderson Fed Com 554H - Anderson Fed Com 554H - Anderson Fed Com 554H - Prelim 2													Offset Site Error:	0.0 usft	
Survey Program: 0-MWD+HRGM				Rule Assigned:										Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
11,700.0	10,840.0	11,837.3	11,150.0	41.4	26.0	108.61	685.1	51.1	974.6	908.8	65.79	14.813			
11,800.0	10,840.0	11,937.3	11,150.0	42.3	26.3	108.61	785.1	50.5	974.6	906.6	68.00	14.333			
11,900.0	10,840.0	12,037.3	11,150.0	43.2	27.2	108.61	885.1	49.9	974.6	904.3	70.36	13.852			
12,000.0	10,840.0	12,137.3	11,150.0	44.3	28.5	108.61	985.1	49.4	974.6	901.8	72.85	13.379			
12,100.0	10,840.0	12,237.3	11,150.0	45.3	30.0	108.61	1,085.1	48.8	974.6	899.2	75.45	12.917			
12,200.0	10,840.0	12,337.3	11,150.0	46.4	31.6	108.61	1,185.1	48.2	974.6	896.5	78.16	12.469			
12,300.0	10,840.0	12,437.3	11,150.0	47.6	33.3	108.61	1,285.1	47.7	974.6	893.7	80.97	12.037			
12,400.0	10,840.0	12,537.3	11,150.0	48.8	34.9	108.61	1,385.1	47.1	974.6	890.8	83.86	11.623			
12,500.0	10,840.0	12,637.3	11,150.0	50.0	36.7	108.61	1,485.1	46.6	974.6	887.8	86.82	11.226			
12,600.0	10,840.0	12,737.3	11,150.0	51.3	38.4	108.61	1,585.1	46.0	974.6	884.8	89.85	10.847			
12,700.0	10,840.0	12,837.3	11,150.0	52.7	40.2	108.61	1,685.1	45.4	974.6	881.7	92.95	10.486			
12,800.0	10,840.0	12,937.3	11,150.0	54.0	42.0	108.61	1,785.1	44.9	974.7	878.6	96.10	10.143			
12,900.0	10,840.0	13,037.3	11,150.0	55.5	43.8	108.61	1,885.1	44.3	974.7	875.4	99.29	9.816			
13,000.0	10,840.0	13,137.3	11,150.0	56.9	45.7	108.61	1,985.1	43.7	974.7	872.1	102.54	9.505			
13,100.0	10,840.0	13,237.3	11,150.0	58.4	47.5	108.61	2,085.1	43.2	974.7	868.8	105.82	9.210			
13,200.0	10,840.0	13,337.3	11,150.0	59.9	49.4	108.61	2,185.1	42.6	974.7	865.5	109.15	8.930			
13,300.0	10,840.0	13,437.3	11,150.0	61.4	51.3	108.61	2,285.1	42.1	974.7	862.2	112.51	8.663			
13,400.0	10,840.0	13,537.3	11,150.0	63.0	53.2	108.61	2,385.1	41.5	974.7	858.8	115.90	8.410			
13,500.0	10,840.0	13,637.3	11,150.0	64.6	55.1	108.61	2,485.1	40.9	974.7	855.4	119.31	8.169			
13,600.0	10,840.0	13,737.3	11,150.0	66.2	57.0	108.61	2,585.1	40.4	974.7	851.9	122.76	7.940			
13,700.0	10,840.0	13,837.3	11,150.0	67.8	58.9	108.61	2,685.1	39.8	974.7	848.5	126.23	7.722			
13,800.0	10,840.0	13,937.3	11,150.0	69.5	60.8	108.61	2,785.1	39.2	974.7	845.0	129.72	7.514			
13,900.0	10,840.0	14,037.3	11,150.0	71.1	62.7	108.61	2,885.1	38.7	974.7	841.5	133.24	7.316			
14,000.0	10,840.0	14,137.3	11,150.0	72.8	64.7	108.61	2,985.1	38.1	974.7	837.9	136.77	7.127			
14,100.0	10,840.0	14,237.3	11,150.0	74.5	66.6	108.61	3,085.1	37.6	974.7	834.4	140.32	6.946			
14,200.0	10,840.0	14,337.3	11,150.0	76.2	68.6	108.61	3,185.1	37.0	974.7	830.8	143.89	6.774			
14,300.0	10,840.0	14,437.3	11,150.0	78.0	70.5	108.61	3,285.1	36.4	974.7	827.3	147.47	6.610			
14,400.0	10,840.0	14,537.3	11,150.0	79.7	72.5	108.61	3,385.1	35.9	974.7	823.7	151.06	6.452			
14,500.0	10,840.0	14,637.3	11,150.0	81.5	74.4	108.61	3,485.1	35.3	974.7	820.1	154.67	6.302			
14,600.0	10,840.0	14,737.3	11,150.0	83.2	76.4	108.61	3,585.1	34.7	974.7	816.4	158.30	6.158			
14,700.0	10,840.0	14,837.3	11,150.0	85.0	78.3	108.61	3,685.1	34.2	974.7	812.8	161.93	6.019			
14,800.0	10,840.0	14,937.3	11,150.0	86.8	80.3	108.61	3,785.1	33.6	974.7	809.2	165.58	5.887			
14,900.0	10,840.0	15,037.3	11,150.0	88.6	82.2	108.61	3,885.0	33.1	974.7	805.5	169.23	5.760			
15,000.0	10,840.0	15,137.3	11,150.0	90.4	84.2	108.61	3,985.0	32.5	974.8	801.9	172.90	5.638			
15,100.0	10,840.0	15,237.3	11,150.0	92.2	86.2	108.61	4,085.0	31.9	974.8	798.2	176.57	5.520			
15,200.0	10,840.0	15,337.3	11,150.0	94.0	88.2	108.61	4,185.0	31.4	974.8	794.5	180.25	5.408			
15,300.0	10,840.0	15,437.3	11,150.0	95.9	90.1	108.61	4,285.0	30.8	974.8	790.8	183.94	5.299			
15,400.0	10,840.0	15,537.3	11,150.0	97.7	92.1	108.61	4,385.0	30.2	974.8	787.1	187.64	5.195			
15,500.0	10,840.0	15,637.3	11,150.0	99.6	94.1	108.61	4,485.0	29.7	974.8	783.4	191.35	5.094			
15,600.0	10,840.0	15,737.3	11,150.0	101.4	96.1	108.61	4,585.0	29.1	974.8	779.7	195.06	4.997			
15,700.0	10,840.0	15,837.3	11,150.0	103.3	98.0	108.61	4,685.0	28.6	974.8	776.0	198.78	4.904			
15,800.0	10,840.0	15,937.3	11,150.0	105.1	100.0	108.61	4,785.0	28.0	974.8	772.3	202.50	4.814			
15,900.0	10,840.0	16,037.3	11,150.0	107.0	102.0	108.61	4,885.0	27.4	974.8	768.6	206.23	4.727			
16,000.0	10,840.0	16,137.3	11,150.0	108.9	104.0	108.60	4,985.0	26.9	974.8	764.8	209.97	4.643			
16,100.0	10,840.0	16,237.3	11,150.0	110.8	106.0	108.60	5,085.0	26.3	974.8	761.1	213.71	4.561			
16,200.0	10,840.0	16,337.3	11,150.0	112.7	108.0	108.60	5,185.0	25.7	974.8	757.4	217.46	4.483			
16,300.0	10,840.0	16,437.3	11,150.0	114.6	109.9	108.60	5,285.0	25.2	974.8	753.6	221.21	4.407			
16,400.0	10,840.0	16,537.3	11,150.0	116.4	111.9	108.60	5,385.0	24.6	974.8	749.9	224.96	4.333			
16,500.0	10,840.0	16,637.3	11,150.0	118.3	113.9	108.60	5,485.0	24.0	974.8	746.1	228.72	4.262			
16,600.0	10,840.0	16,737.3	11,150.0	120.2	115.9	108.60	5,585.0	23.5	974.8	742.3	232.48	4.193			
16,700.0	10,840.0	16,837.3	11,150.0	122.2	117.9	108.60	5,685.0	22.9	974.8	738.6	236.25	4.126			
16,800.0	10,840.0	16,937.3	11,150.0	124.1	119.9	108.60	5,785.0	22.4	974.8	734.8	240.02	4.061			

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 553H
Project:	Hat Mesa	TVD Reference:	WELL @ 3704.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3704.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 553H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 553H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 553H - Prelim 2	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad C - Anderson Fed Com 554H - Anderson Fed Com 554H - Anderson Fed Com 554H - Prelim 2													Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
16,900.0	10,840.0	17,037.3	11,150.0	126.0	121.9	108.60	5,885.0	21.8	974.8	731.0	243.79	3.999		
17,000.0	10,840.0	17,137.3	11,150.0	127.9	123.9	108.60	5,985.0	21.2	974.8	727.3	247.57	3.938		
17,100.0	10,840.0	17,237.3	11,150.0	129.8	125.9	108.60	6,085.0	20.7	974.8	723.5	251.35	3.878		
17,200.0	10,840.0	17,337.3	11,150.0	131.7	127.9	108.60	6,185.0	20.1	974.9	719.7	255.13	3.821		
17,300.0	10,840.0	17,437.3	11,150.0	133.7	129.9	108.60	6,285.0	19.5	974.9	715.9	258.92	3.765		
17,400.0	10,840.0	17,537.3	11,150.0	135.6	131.9	108.60	6,385.0	19.0	974.9	712.2	262.71	3.711		
17,500.0	10,840.0	17,637.3	11,150.0	137.5	133.9	108.60	6,485.0	18.4	974.9	708.4	266.50	3.658		
17,600.0	10,840.0	17,737.3	11,150.0	139.5	135.9	108.60	6,585.0	17.9	974.9	704.6	270.29	3.607		
17,694.0	10,840.0	17,831.3	11,150.0	141.3	137.7	108.60	6,679.0	17.3	974.9	701.0	273.86	3.560		
17,694.7	10,840.0	17,832.0	11,150.0	141.3	137.7	108.60	6,679.7	17.3	974.9	701.0	273.89	3.559 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 553H
Project:	Hat Mesa	TVD Reference:	WELL @ 3704.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3704.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 553H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 553H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 553H - Prelim 2	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad C - Anderson Fed Com 602H - Anderson Fed Com 602H - Anderson Fed Com 602H - Prelim 2											Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM											Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
0.0	0.0	0.0	0.0	0.0	0.0	89.55	1.3	165.2	165.2			
100.0	100.0	100.0	100.0	0.5	0.5	89.55	1.3	165.2	165.2	164.1	1.06	155.770
200.0	200.0	200.0	200.0	1.7	1.7	89.55	1.3	165.2	165.2	161.7	3.42	48.244
300.0	300.0	300.0	300.0	2.4	2.4	89.55	1.3	165.2	165.2	160.3	4.82	34.246
400.0	400.0	400.0	400.0	3.0	3.0	89.55	1.3	165.2	165.2	159.3	5.91	27.956
500.0	500.0	500.0	500.0	3.4	3.4	89.55	1.3	165.2	165.2	158.3	6.83	24.181
600.0	600.0	600.0	600.0	3.8	3.8	89.55	1.3	165.2	165.2	157.5	7.65	21.594
700.0	700.0	700.0	700.0	4.2	4.2	89.55	1.3	165.2	165.2	156.8	8.39	19.677
800.0	800.0	800.0	800.0	4.5	4.5	89.55	1.3	165.2	165.2	156.1	9.08	18.182
900.0	900.0	900.0	900.0	4.9	4.9	89.55	1.3	165.2	165.2	155.4	9.73	16.974
1,000.0	1,000.0	1,000.0	1,000.0	5.2	5.2	89.55	1.3	165.2	165.2	154.8	10.34	15.971
1,100.0	1,100.0	1,100.0	1,100.0	5.5	5.5	89.55	1.3	165.2	165.2	154.2	10.92	15.121
1,200.0	1,200.0	1,200.0	1,200.0	5.7	5.7	89.55	1.3	165.2	165.2	153.7	11.48	14.388
1,300.0	1,300.0	1,300.0	1,300.0	6.0	6.0	89.55	1.3	165.2	165.2	153.1	12.01	13.747
1,400.0	1,400.0	1,400.0	1,400.0	6.3	6.3	89.55	1.3	165.2	165.2	152.6	12.53	13.180
1,500.0	1,500.0	1,500.0	1,500.0	6.5	6.5	89.55	1.3	165.2	165.2	152.1	13.03	12.674
1,600.0	1,600.0	1,600.0	1,600.0	6.8	6.8	89.55	1.3	165.2	165.2	151.6	13.52	12.219
1,700.0	1,700.0	1,700.0	1,700.0	7.0	7.0	89.55	1.3	165.2	165.2	151.2	13.99	11.806
1,800.0	1,800.0	1,800.0	1,800.0	7.2	7.2	89.55	1.3	165.2	165.2	150.7	14.45	11.430
1,900.0	1,900.0	1,900.0	1,900.0	7.4	7.4	89.55	1.3	165.2	165.2	150.3	14.90	11.085
2,000.0	2,000.0	2,000.0	2,000.0	7.7	7.7	89.55	1.3	165.2	165.2	149.8	15.34	10.767
2,100.0	2,100.0	2,100.0	2,100.0	7.9	7.9	89.55	1.3	165.2	165.2	149.4	15.77	10.473
2,200.0	2,200.0	2,200.0	2,200.0	8.1	8.1	89.55	1.3	165.2	165.2	149.0	16.19	10.200
2,300.0	2,300.0	2,300.0	2,300.0	8.3	8.3	89.55	1.3	165.2	165.2	148.6	16.61	9.945
2,400.0	2,400.0	2,400.0	2,400.0	8.5	8.5	89.55	1.3	165.2	165.2	148.1	17.02	9.707
2,500.0	2,500.0	2,500.0	2,500.0	8.7	8.7	89.55	1.3	165.2	165.2	147.7	17.42	9.483
2,600.0	2,600.0	2,600.0	2,600.0	8.9	8.9	89.55	1.3	165.2	165.2	147.4	17.81	9.272
2,700.0	2,700.0	2,700.0	2,700.0	9.1	9.1	89.55	1.3	165.2	165.2	147.0	18.20	9.074
2,800.0	2,800.0	2,800.0	2,800.0	9.3	9.3	89.55	1.3	165.2	165.2	146.6	18.59	8.887
2,900.0	2,900.0	2,900.0	2,900.0	9.5	9.5	89.55	1.3	165.2	165.2	146.2	18.96	8.709
3,000.0	3,000.0	3,000.0	3,000.0	9.7	9.7	89.55	1.3	165.2	165.2	145.8	19.34	8.540
3,100.0	3,100.0	3,100.0	3,100.0	9.9	9.9	89.55	1.3	165.2	165.2	145.5	19.71	8.380
3,200.0	3,200.0	3,200.0	3,200.0	10.0	10.0	89.55	1.3	165.2	165.2	145.1	20.07	8.228
3,300.0	3,300.0	3,300.0	3,300.0	10.2	10.2	89.55	1.3	165.2	165.2	144.7	20.44	8.082
3,400.0	3,400.0	3,400.0	3,400.0	10.4	10.4	89.55	1.3	165.2	165.2	144.4	20.79	7.943
3,500.0	3,500.0	3,500.0	3,500.0	10.6	10.6	89.55	1.3	165.2	165.2	144.0	21.15	7.810
3,600.0	3,600.0	3,600.0	3,600.0	10.7	10.7	89.55	1.3	165.2	165.2	143.7	21.50	7.682
3,700.0	3,700.0	3,700.0	3,700.0	10.9	10.9	89.55	1.3	165.2	165.2	143.3	21.85	7.560
3,800.0	3,800.0	3,800.0	3,800.0	11.1	11.1	89.55	1.3	165.2	165.2	143.0	22.19	7.443
3,900.0	3,900.0	3,900.0	3,900.0	11.3	11.3	89.55	1.3	165.2	165.2	142.6	22.53	7.330
4,000.0	4,000.0	4,000.0	4,000.0	11.4	11.4	89.55	1.3	165.2	165.2	142.3	22.87	7.222
4,100.0	4,100.0	4,100.0	4,100.0	11.6	11.6	89.55	1.3	165.2	165.2	142.0	23.21	7.117
4,200.0	4,200.0	4,200.0	4,200.0	11.8	11.8	89.55	1.3	165.2	165.2	141.6	23.54	7.016
4,300.0	4,300.0	4,300.0	4,300.0	11.9	11.9	89.55	1.3	165.2	165.2	141.3	23.87	6.919
4,400.0	4,400.0	4,400.0	4,400.0	12.1	12.1	89.55	1.3	165.2	165.2	141.0	24.20	6.825
4,500.0	4,500.0	4,500.0	4,500.0	12.3	12.3	89.55	1.3	165.2	165.2	140.6	24.53	6.734
4,600.0	4,600.0	4,600.0	4,600.0	12.4	12.4	89.55	1.3	165.2	165.2	140.3	24.85	6.647
4,700.0	4,700.0	4,700.0	4,700.0	12.6	12.6	89.55	1.3	165.2	165.2	140.0	25.17	6.562
4,800.0	4,800.0	4,800.0	4,800.0	12.7	12.7	89.55	1.3	165.2	165.2	139.7	25.49	6.479
4,900.0	4,900.0	4,900.0	4,900.0	12.9	12.9	89.55	1.3	165.2	165.2	139.4	25.81	6.400
5,000.0	5,000.0	5,000.0	5,000.0	13.1	13.1	89.55	1.3	165.2	165.2	139.0	26.12	6.322 CC, ES
5,100.0	5,100.0	5,100.0	5,100.0	13.2	13.2	-158.55	1.3	165.2	166.0	139.6	26.39	6.290 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 553H
Project:	Hat Mesa	TVD Reference:	WELL @ 3704.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3704.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 553H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 553H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 553H - Prelim 2	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad C - Anderson Fed Com 602H - Anderson Fed Com 602H - Anderson Fed Com 602H - Prelim 2													Offset Site Error: 0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.0 usft
Reference	Offset	Rule Assigned:											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,200.0	5,200.0	5,200.0	5,200.0	13.3	13.4	-158.87	1.3	165.2	168.4	141.8	26.64	6.321	
5,300.0	5,299.9	5,299.9	5,299.9	13.4	13.5	-159.38	1.3	165.2	172.5	145.6	26.91	6.410	
5,400.0	5,399.7	5,399.7	5,399.7	13.5	13.7	-160.05	1.3	165.2	178.2	151.0	27.20	6.553	
5,500.0	5,499.4	5,499.4	5,499.4	13.7	13.8	-160.85	1.3	165.2	185.6	158.1	27.50	6.750	
5,600.0	5,599.0	5,599.0	5,599.0	13.9	14.0	-161.70	1.3	165.2	193.9	166.1	27.82	6.969	
5,700.0	5,698.6	5,698.6	5,698.6	14.1	14.1	-162.23	0.4	165.2	202.1	174.0	28.08	7.196	
5,800.0	5,798.2	5,798.8	5,798.8	14.3	14.1	-162.25	-2.2	165.2	210.2	181.9	28.33	7.419	
5,900.0	5,897.8	5,898.5	5,898.4	14.5	14.2	-161.96	-5.9	165.2	218.2	189.7	28.56	7.642	
6,000.0	5,997.5	5,998.2	5,998.0	14.7	14.2	-161.68	-9.7	165.2	226.3	197.4	28.83	7.847	
6,100.0	6,097.1	6,097.9	6,097.6	15.0	14.3	-161.41	-13.6	165.2	234.3	205.2	29.13	8.043	
6,200.0	6,196.7	6,197.6	6,197.2	15.3	14.5	-161.17	-17.4	165.2	242.3	212.9	29.44	8.231	
6,300.0	6,296.3	6,297.2	6,296.8	15.6	14.6	-160.94	-21.2	165.2	250.4	220.6	29.76	8.412	
6,400.0	6,395.9	6,396.9	6,396.4	15.9	14.7	-160.72	-25.0	165.2	258.4	228.3	30.10	8.585	
6,500.0	6,495.6	6,496.6	6,496.0	16.2	14.9	-160.52	-28.8	165.2	266.5	236.0	30.45	8.751	
6,600.0	6,595.2	6,596.2	6,595.6	16.5	15.0	-160.33	-32.6	165.2	274.5	243.7	30.81	8.910	
6,700.0	6,694.8	6,695.9	6,695.2	16.9	15.2	-160.15	-36.4	165.2	282.6	251.4	31.18	9.062	
6,800.0	6,794.4	6,795.6	6,794.8	17.2	15.4	-159.98	-40.2	165.2	290.6	259.1	31.56	9.208	
6,900.0	6,894.0	6,895.3	6,894.4	17.6	15.6	-159.82	-44.0	165.2	298.7	266.7	31.95	9.347	
7,000.0	6,993.7	6,994.9	6,994.0	17.9	15.8	-159.67	-47.8	165.2	306.7	274.4	32.35	9.480	
7,100.0	7,093.3	7,094.6	7,093.6	18.3	16.0	-159.53	-51.6	165.2	314.8	282.0	32.76	9.608	
7,200.0	7,192.9	7,194.3	7,193.2	18.7	16.2	-159.39	-55.4	165.2	322.9	289.7	33.18	9.730	
7,300.0	7,292.5	7,293.9	7,292.8	19.1	16.5	-159.26	-59.2	165.2	330.9	297.3	33.61	9.847	
7,400.0	7,392.1	7,393.6	7,392.4	19.5	16.7	-159.14	-63.1	165.2	339.0	304.9	34.04	9.958	
7,500.0	7,491.8	7,493.3	7,492.0	19.9	17.0	-159.02	-66.9	165.2	347.1	312.6	34.48	10.065	
7,600.0	7,591.4	7,593.0	7,591.6	20.3	17.2	-158.91	-70.7	165.2	355.1	320.2	34.93	10.168	
7,700.0	7,691.0	7,692.6	7,691.2	20.7	17.5	-158.80	-74.5	165.2	363.2	327.8	35.38	10.266	
7,800.0	7,790.6	7,792.3	7,790.8	21.1	17.8	-158.69	-78.3	165.2	371.3	335.4	35.84	10.359	
7,900.0	7,890.2	7,892.0	7,890.4	21.6	18.0	-158.60	-82.1	165.2	379.3	343.0	36.30	10.449	
8,000.0	7,989.9	7,991.6	7,990.0	22.0	18.3	-158.50	-85.9	165.2	387.4	350.6	36.77	10.535	
8,100.0	8,089.5	8,091.3	8,089.6	22.5	18.6	-158.41	-89.7	165.2	395.5	358.2	37.25	10.617	
8,200.0	8,189.1	8,191.0	8,189.2	22.9	18.9	-158.32	-93.5	165.2	403.6	365.8	37.73	10.696	
8,300.0	8,288.7	8,290.7	8,288.8	23.3	19.2	-158.24	-97.3	165.2	411.6	373.4	38.22	10.772	
8,400.0	8,388.3	8,390.3	8,388.4	23.8	19.5	-158.16	-101.1	165.2	419.7	381.0	38.71	10.844	
8,500.0	8,487.9	8,490.0	8,488.0	24.3	19.8	-158.08	-104.9	165.2	427.8	388.6	39.20	10.913	
8,600.0	8,587.6	8,589.7	8,587.6	24.7	20.2	-158.01	-108.8	165.2	435.9	396.2	39.70	10.980	
8,700.0	8,687.2	8,689.3	8,687.2	25.2	20.5	-157.93	-112.6	165.2	444.0	403.8	40.20	11.044	
8,800.0	8,786.8	8,789.0	8,786.8	25.6	20.8	-157.87	-116.4	165.2	452.0	411.3	40.71	11.105	
8,900.0	8,886.4	8,888.7	8,886.4	26.1	21.1	-157.80	-120.2	165.2	460.1	418.9	41.21	11.164	
9,000.0	8,986.0	8,988.4	8,986.0	26.6	21.5	-157.73	-124.0	165.2	468.2	426.5	41.73	11.221	
9,100.0	9,085.7	9,088.0	9,085.6	27.1	21.8	-157.67	-127.8	165.2	476.3	434.0	42.24	11.275	
9,200.0	9,185.3	9,187.7	9,185.2	27.5	22.2	-157.61	-131.6	165.2	484.4	441.6	42.76	11.327	
9,300.0	9,284.9	9,287.4	9,284.8	28.0	22.5	-157.55	-135.4	165.2	492.5	449.2	43.29	11.377	
9,400.0	9,384.5	9,387.0	9,384.4	28.5	22.9	-157.50	-139.2	165.2	500.5	456.7	43.81	11.425	
9,500.0	9,484.1	9,486.7	9,484.0	29.0	23.2	-157.44	-143.0	165.2	508.6	464.3	44.34	11.472	
9,600.0	9,583.8	9,586.4	9,583.6	29.5	23.6	-157.39	-146.8	165.2	516.7	471.8	44.87	11.516	
9,700.0	9,683.4	9,686.1	9,683.2	29.9	23.9	-157.34	-150.6	165.2	524.8	479.4	45.40	11.559	
9,800.0	9,783.0	9,785.7	9,782.8	30.4	24.3	-157.29	-154.4	165.2	532.9	486.9	45.94	11.600	
9,900.0	9,882.6	9,885.4	9,882.4	30.9	24.7	-157.24	-158.3	165.2	541.0	494.5	46.48	11.640	
10,000.0	9,982.2	9,985.1	9,982.0	31.4	25.0	-157.19	-162.1	165.2	549.1	502.0	47.02	11.678	
10,100.0	10,081.9	10,084.7	10,081.6	31.9	25.4	-157.15	-165.9	165.2	557.1	509.6	47.56	11.715	
10,145.3	10,127.0	10,129.9	10,126.7	32.1	25.6	-157.13	-167.6	165.2	560.8	513.0	47.79	11.734	
10,150.0	10,131.7	10,134.6	10,131.4	32.1	25.6	-157.55	-167.8	165.2	561.2	513.4	47.82	11.736	

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 553H
Project:	Hat Mesa	TVD Reference:	WELL @ 3704.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3704.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 553H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 553H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 553H - Prelim 2	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad C - Anderson Fed Com 602H - Anderson Fed Com 602H - Anderson Fed Com 602H - Prelim 2												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	0.0 usft
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
10,175.0	10,156.5	10,159.4	10,156.2	32.3	25.7	-158.83	-168.7	165.2	564.1	516.1	47.97	11.760	
10,200.0	10,181.1	10,184.1	10,180.8	32.4	25.8	-159.38	-169.7	165.2	568.2	520.0	48.15	11.801	
10,225.0	10,205.4	10,208.5	10,205.2	32.6	25.9	-159.66	-170.6	165.2	573.5	525.2	48.34	11.864	
10,250.0	10,229.5	10,232.6	10,229.3	32.8	25.9	-159.79	-171.5	165.2	580.0	531.5	48.55	11.948	
10,275.0	10,253.1	10,256.3	10,253.0	33.0	26.0	-159.84	-172.4	165.2	587.7	539.0	48.76	12.053	
10,300.0	10,276.3	10,279.5	10,276.2	33.1	26.1	-159.81	-173.3	165.2	596.6	547.6	48.99	12.180	
10,325.0	10,298.9	10,302.3	10,299.0	33.3	26.2	-159.73	-174.2	165.2	606.7	557.4	49.21	12.327	
10,350.0	10,321.0	10,324.5	10,321.1	33.5	26.3	-159.61	-175.0	165.2	617.8	568.4	49.45	12.495	
10,375.0	10,342.4	10,346.0	10,342.7	33.7	26.4	-159.42	-175.9	165.2	630.1	580.4	49.68	12.682	
10,400.0	10,363.1	10,366.9	10,363.5	33.9	26.5	-159.18	-176.7	165.2	643.4	593.5	49.92	12.889	
10,425.0	10,383.0	10,387.0	10,383.6	34.0	26.5	-158.88	-177.4	165.2	657.8	607.7	50.16	13.115	
10,443.8	10,397.5	10,401.6	10,398.2	34.2	26.6	-158.60	-178.0	165.2	669.3	619.0	50.33	13.298	
10,450.0	10,402.2	10,406.4	10,403.0	34.2	26.6	-160.14	-178.2	165.2	673.2	622.8	50.39	13.360	
10,475.0	10,421.3	10,425.6	10,422.1	34.4	26.7	-166.34	-178.9	165.2	688.9	638.3	50.59	13.617	
10,500.0	10,440.5	10,444.8	10,441.4	34.5	26.8	-172.51	-179.6	165.2	704.8	654.0	50.78	13.878	
10,525.0	10,459.8	10,464.2	10,460.7	34.7	26.8	-178.62	-180.4	165.2	720.6	669.7	50.96	14.142	
10,550.0	10,479.1	10,483.5	10,480.0	34.8	26.9	175.39	-181.1	165.2	736.5	685.3	51.11	14.408	
10,575.0	10,498.4	10,502.7	10,499.2	34.9	27.0	169.55	-181.8	165.2	752.3	701.0	51.25	14.677	
10,600.0	10,517.6	10,521.8	10,518.3	35.1	27.0	163.91	-182.6	165.2	768.0	716.6	51.38	14.947	
10,625.0	10,536.7	10,540.8	10,537.2	35.2	27.1	158.49	-183.3	165.2	783.6	732.1	51.49	15.219	
10,650.0	10,555.6	10,559.5	10,555.9	35.3	27.2	153.32	-184.0	165.2	799.0	747.5	51.58	15.492	
10,675.0	10,574.2	10,577.9	10,574.3	35.5	27.3	148.42	-184.7	165.2	814.4	762.7	51.65	15.766	
10,700.0	10,592.6	10,596.0	10,592.4	35.6	27.3	143.79	-185.4	165.2	829.5	777.8	51.72	16.040	
10,725.0	10,610.7	10,613.7	10,610.1	35.7	27.4	139.44	-186.1	165.2	844.6	792.8	51.77	16.315	
10,750.0	10,628.4	10,631.0	10,627.4	35.8	27.5	135.37	-186.7	165.2	859.4	807.6	51.80	16.590	
10,775.0	10,645.6	10,647.8	10,644.2	36.0	27.5	131.56	-187.4	165.2	874.0	822.2	51.83	16.865	
10,800.0	10,662.4	10,664.1	10,660.5	36.1	27.6	128.00	-188.0	165.2	888.5	836.7	51.84	17.140	
10,825.0	10,678.6	10,679.8	10,676.2	36.2	27.7	124.69	-188.6	165.2	902.8	851.0	51.84	17.416	
10,850.0	10,694.3	10,694.9	10,691.3	36.3	27.7	121.59	-189.2	165.2	916.9	865.1	51.83	17.691	
10,875.0	10,709.4	10,709.3	10,705.7	36.4	27.8	118.70	-189.7	165.2	930.9	879.1	51.81	17.966	
10,900.0	10,723.8	10,723.1	10,719.5	36.5	27.8	116.00	-190.3	165.2	944.6	892.9	51.79	18.241	
10,925.0	10,737.5	10,736.1	10,732.5	36.6	27.9	113.48	-190.8	165.2	958.2	906.5	51.75	18.515	
10,950.0	10,750.5	10,748.4	10,744.8	36.7	27.9	111.10	-191.2	165.2	971.7	919.9	51.72	18.788	
10,975.0	10,762.7	10,759.9	10,756.2	36.8	28.0	108.87	-191.7	165.2	984.9	933.2	51.67	19.061	
11,000.0	10,774.1	10,770.5	10,766.9	36.9	28.0	106.77	-192.1	165.2	998.0	946.3	51.62	19.333	

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 553H
Project:	Hat Mesa	TVD Reference:	WELL @ 3704.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3704.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 553H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 553H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 553H - Prelim 2	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad C - Anderson Fed Com 702H - Anderson Fed Com 702H - Anderson Fed Com 702H - Prelim 2											Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM											Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
0.0	0.0	0.0	0.0	0.0	0.0	89.87	0.1	33.1	33.5			
100.0	100.0	95.0	95.0	0.5	0.5	89.87	0.1	33.1	33.1	32.1	1.03	32.020
200.0	200.0	195.0	195.0	1.7	1.7	89.87	0.1	33.1	33.1	29.7	3.36	9.839
300.0	300.0	295.0	295.0	2.4	2.4	89.87	0.1	33.1	33.1	28.3	4.79	6.914
400.0	400.0	395.0	395.0	3.0	2.9	89.87	0.1	33.1	33.1	27.2	5.88	5.629
500.0	500.0	495.0	495.0	3.4	3.4	89.87	0.1	33.1	33.1	26.3	6.81	4.863
600.0	600.0	595.0	595.0	3.8	3.8	89.87	0.1	33.1	33.1	25.5	7.63	4.339
700.0	700.0	695.0	695.0	4.2	4.2	89.87	0.1	33.1	33.1	24.7	8.38	3.952
800.0	800.0	795.0	795.0	4.5	4.5	89.87	0.1	33.1	33.1	24.0	9.07	3.651
900.0	900.0	895.0	895.0	4.9	4.8	89.87	0.1	33.1	33.1	23.4	9.71	3.408
1,000.0	1,000.0	995.0	995.0	5.2	5.2	89.87	0.1	33.1	33.1	22.8	10.33	3.206
1,100.0	1,100.0	1,095.0	1,095.0	5.5	5.4	89.87	0.1	33.1	33.1	22.2	10.91	3.035
1,200.0	1,200.0	1,195.0	1,195.0	5.7	5.7	89.87	0.1	33.1	33.1	21.6	11.47	2.887
1,300.0	1,300.0	1,295.0	1,295.0	6.0	6.0	89.87	0.1	33.1	33.1	21.1	12.00	2.758
1,400.0	1,400.0	1,395.0	1,395.0	6.3	6.3	89.87	0.1	33.1	33.1	20.6	12.52	2.644
1,500.0	1,500.0	1,495.0	1,495.0	6.5	6.5	89.87	0.1	33.1	33.1	20.1	13.02	2.543
1,600.0	1,600.0	1,595.0	1,595.0	6.8	6.7	89.87	0.1	33.1	33.1	19.6	13.50	2.451
1,700.0	1,700.0	1,695.0	1,695.0	7.0	7.0	89.87	0.1	33.1	33.1	19.1	13.98	2.368
1,800.0	1,800.0	1,795.0	1,795.0	7.2	7.2	89.87	0.1	33.1	33.1	18.7	14.44	2.293
1,900.0	1,900.0	1,895.0	1,895.0	7.4	7.4	89.87	0.1	33.1	33.1	18.2	14.89	2.223
2,000.0	2,000.0	1,995.0	1,995.0	7.7	7.7	89.87	0.1	33.1	33.1	17.8	15.33	2.160
2,100.0	2,100.0	2,095.0	2,095.0	7.9	7.9	89.87	0.1	33.1	33.1	17.3	15.76	2.100
2,200.0	2,200.0	2,195.0	2,195.0	8.1	8.1	89.87	0.1	33.1	33.1	16.9	16.18	2.046
2,300.0	2,300.0	2,295.0	2,295.0	8.3	8.3	89.87	0.1	33.1	33.1	16.5	16.60	1.994
2,400.0	2,400.0	2,395.0	2,395.0	8.5	8.5	89.87	0.1	33.1	33.1	16.1	17.01	1.947
2,500.0	2,500.0	2,495.0	2,495.0	8.7	8.7	89.87	0.1	33.1	33.1	15.7	17.41	1.902
2,600.0	2,600.0	2,595.0	2,595.0	8.9	8.9	89.87	0.1	33.1	33.1	15.3	17.80	1.859
2,700.0	2,700.0	2,695.0	2,695.0	9.1	9.1	89.87	0.1	33.1	33.1	14.9	18.19	1.820
2,800.0	2,800.0	2,795.0	2,795.0	9.3	9.3	89.87	0.1	33.1	33.1	14.5	18.58	1.782
2,900.0	2,900.0	2,895.0	2,895.0	9.5	9.5	89.87	0.1	33.1	33.1	14.1	18.96	1.746
3,000.0	3,000.0	2,995.0	2,995.0	9.7	9.7	89.87	0.1	33.1	33.1	13.8	19.33	1.712
3,100.0	3,100.0	3,095.0	3,095.0	9.9	9.8	89.87	0.1	33.1	33.1	13.4	19.70	1.680
3,200.0	3,200.0	3,195.0	3,195.0	10.0	10.0	89.87	0.1	33.1	33.1	13.0	20.07	1.650
3,300.0	3,300.0	3,295.0	3,295.0	10.2	10.2	89.87	0.1	33.1	33.1	12.7	20.43	1.621
3,400.0	3,400.0	3,395.0	3,395.0	10.4	10.4	89.87	0.1	33.1	33.1	12.3	20.79	1.593
3,500.0	3,500.0	3,495.0	3,495.0	10.6	10.6	89.87	0.1	33.1	33.1	12.0	21.14	1.566
3,600.0	3,600.0	3,595.0	3,595.0	10.7	10.7	89.87	0.1	33.1	33.1	11.6	21.49	1.540
3,700.0	3,700.0	3,695.0	3,695.0	10.9	10.9	89.87	0.1	33.1	33.1	11.3	21.84	1.516
3,800.0	3,800.0	3,795.0	3,795.0	11.1	11.1	89.87	0.1	33.1	33.1	10.9	22.18	1.492 Level 3
3,900.0	3,900.0	3,895.0	3,895.0	11.3	11.3	89.87	0.1	33.1	33.1	10.6	22.52	1.470 Level 3
4,000.0	4,000.0	3,995.0	3,995.0	11.4	11.4	89.87	0.1	33.1	33.1	10.2	22.86	1.448 Level 3
4,100.0	4,100.0	4,095.0	4,095.0	11.6	11.6	89.87	0.1	33.1	33.1	9.9	23.20	1.427 Level 3
4,200.0	4,200.0	4,195.0	4,195.0	11.8	11.8	89.87	0.1	33.1	33.1	9.6	23.53	1.407 Level 3
4,300.0	4,300.0	4,295.0	4,295.0	11.9	11.9	89.87	0.1	33.1	33.1	9.2	23.86	1.387 Level 3
4,400.0	4,400.0	4,395.0	4,395.0	12.1	12.1	89.87	0.1	33.1	33.1	8.9	24.19	1.368 Level 3
4,500.0	4,500.0	4,495.0	4,495.0	12.3	12.3	89.87	0.1	33.1	33.1	8.6	24.52	1.350 Level 3
4,600.0	4,600.0	4,595.0	4,595.0	12.4	12.4	89.87	0.1	33.1	33.1	8.3	24.84	1.333 Level 3
4,700.0	4,700.0	4,695.0	4,695.0	12.6	12.6	89.87	0.1	33.1	33.1	7.9	25.16	1.316 Level 3
4,800.0	4,800.0	4,795.0	4,795.0	12.7	12.7	89.87	0.1	33.1	33.1	7.6	25.48	1.299 Level 3
4,900.0	4,900.0	4,895.0	4,895.0	12.9	12.9	89.87	0.1	33.1	33.1	7.3	25.80	1.283 Level 3
5,000.0	5,000.0	4,995.0	4,995.0	13.1	13.1	89.87	0.1	33.1	33.1	7.0	26.12	1.267 Level 3, CC
5,100.0	5,100.0	5,095.0	5,095.0	13.2	13.2	-158.68	0.1	33.1	33.9	7.5	26.38	1.286 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 553H
Project:	Hat Mesa	TVD Reference:	WELL @ 3704.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3704.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 553H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 553H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 553H - Prelim 2	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad C - Anderson Fed Com 702H - Anderson Fed Com 702H - Anderson Fed Com 702H - Prelim 2													Offset Site Error: 0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.0 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.0	5,200.0	5,195.0	5,195.0	13.3	13.4	-160.17	0.1	33.1	36.4	9.7	26.64	1.365	Level 3
5,300.0	5,299.9	5,294.9	5,294.9	13.4	13.5	-162.25	0.1	33.1	40.5	13.6	26.91	1.505	
5,400.0	5,399.7	5,394.7	5,394.7	13.5	13.7	-164.53	0.1	33.1	46.3	19.2	27.19	1.704	
5,500.0	5,499.4	5,495.2	5,495.2	13.7	13.8	-166.59	-0.2	32.4	53.2	25.7	27.45	1.937	
5,600.0	5,599.0	5,596.0	5,596.0	13.9	13.9	-168.08	-1.1	30.0	59.2	31.5	27.72	2.136	
5,700.0	5,698.6	5,697.0	5,696.9	14.1	14.0	-169.04	-2.6	25.9	63.5	35.5	28.02	2.267	
5,800.0	5,798.2	5,798.1	5,797.8	14.3	14.1	-169.67	-4.7	20.1	66.1	37.7	28.35	2.331	
5,900.0	5,897.8	5,899.2	5,898.6	14.5	14.3	-170.04	-7.4	12.7	66.9	38.2	28.71	2.331	
6,000.0	5,997.5	5,999.3	5,998.2	14.7	14.4	-170.30	-10.3	4.5	66.9	37.7	29.13	2.296	
6,100.0	6,097.1	6,099.3	6,097.9	15.0	14.6	-170.56	-13.3	-3.7	66.8	37.3	29.57	2.260	
6,200.0	6,196.7	6,199.2	6,197.5	15.3	14.8	-170.82	-16.3	-11.9	66.8	36.7	30.05	2.222	
6,300.0	6,296.3	6,299.2	6,297.1	15.6	15.1	-171.07	-19.3	-20.1	66.7	36.2	30.56	2.184	
6,400.0	6,395.9	6,399.2	6,396.7	15.9	15.3	-171.33	-22.3	-28.3	66.7	35.6	31.11	2.144	
6,500.0	6,495.6	6,499.2	6,496.3	16.2	15.6	-171.59	-25.2	-36.5	66.7	35.0	31.67	2.105	
6,600.0	6,595.2	6,599.2	6,596.0	16.5	15.8	-171.85	-28.2	-44.7	66.6	34.4	32.27	2.065	
6,700.0	6,694.8	6,699.2	6,695.6	16.9	16.1	-172.11	-31.2	-52.8	66.6	33.7	32.89	2.024	
6,800.0	6,794.4	6,799.2	6,795.2	17.2	16.4	-172.37	-34.2	-61.0	66.6	33.0	33.54	1.984	
6,900.0	6,894.0	6,899.2	6,894.8	17.6	16.7	-172.63	-37.2	-69.2	66.5	32.3	34.20	1.945	
7,000.0	6,993.7	6,999.2	6,994.4	17.9	17.0	-172.89	-40.1	-77.4	66.5	31.6	34.89	1.905	
7,100.0	7,093.3	7,099.2	7,094.0	18.3	17.3	-173.15	-43.1	-85.6	66.5	30.8	35.60	1.866	
7,200.0	7,192.9	7,199.2	7,193.7	18.7	17.7	-173.41	-46.1	-93.8	66.4	30.1	36.33	1.828	
7,300.0	7,292.5	7,299.2	7,293.3	19.1	18.0	-173.68	-49.1	-102.0	66.4	29.3	37.08	1.791	
7,400.0	7,392.1	7,399.2	7,392.9	19.5	18.4	-173.94	-52.1	-110.2	66.4	28.5	37.84	1.754	
7,500.0	7,491.8	7,499.2	7,492.5	19.9	18.8	-174.20	-55.1	-118.4	66.3	27.7	38.62	1.718	
7,600.0	7,591.4	7,599.2	7,592.1	20.3	19.1	-174.46	-58.0	-126.6	66.3	26.9	39.42	1.682	
7,700.0	7,691.0	7,699.2	7,691.8	20.7	19.5	-174.72	-61.0	-134.7	66.3	26.1	40.23	1.648	
7,800.0	7,790.6	7,799.2	7,791.4	21.1	19.9	-174.99	-64.0	-142.9	66.3	25.2	41.05	1.614	
7,900.0	7,890.2	7,899.2	7,891.0	21.6	20.3	-175.25	-67.0	-151.1	66.2	24.4	41.88	1.582	
8,000.0	7,989.9	7,999.2	7,990.6	22.0	20.7	-175.51	-70.0	-159.3	66.2	23.5	42.73	1.550	
8,100.0	8,089.5	8,099.2	8,090.2	22.5	21.1	-175.77	-72.9	-167.5	66.2	22.6	43.59	1.519	
8,200.0	8,189.1	8,199.2	8,189.9	22.9	21.5	-176.04	-75.9	-175.7	66.2	21.7	44.45	1.489	Level 3
8,300.0	8,288.7	8,299.2	8,289.5	23.3	22.0	-176.30	-78.9	-183.9	66.2	20.8	45.33	1.460	Level 3
8,400.0	8,388.3	8,399.2	8,389.1	23.8	22.4	-176.56	-81.9	-192.1	66.2	19.9	46.22	1.432	Level 3
8,500.0	8,487.9	8,499.2	8,488.7	24.3	22.8	-176.83	-84.9	-200.3	66.2	19.0	47.11	1.404	Level 3
8,600.0	8,587.6	8,599.2	8,588.3	24.7	23.3	-177.09	-87.8	-208.5	66.1	18.1	48.01	1.378	Level 3
8,700.0	8,687.2	8,699.2	8,688.0	25.2	23.7	-177.35	-90.8	-216.6	66.1	17.2	48.92	1.352	Level 3
8,800.0	8,786.8	8,799.2	8,787.6	25.6	24.1	-177.62	-93.8	-224.8	66.1	16.3	49.84	1.327	Level 3
8,900.0	8,886.4	8,899.2	8,887.2	26.1	24.6	-177.88	-96.8	-233.0	66.1	15.4	50.76	1.302	Level 3
9,000.0	8,986.0	8,999.2	8,986.8	26.6	25.1	-178.14	-99.8	-241.2	66.1	14.4	51.69	1.279	Level 3
9,100.0	9,085.7	9,099.2	9,086.4	27.1	25.5	-178.41	-102.7	-249.4	66.1	13.5	52.63	1.256	Level 3
9,200.0	9,185.3	9,199.2	9,186.0	27.5	26.0	-178.67	-105.7	-257.6	66.1	12.5	53.57	1.234	Level 3
9,300.0	9,284.9	9,299.2	9,285.7	28.0	26.4	-178.93	-108.7	-265.8	66.1	11.6	54.51	1.213	Level 3
9,326.6	9,311.5	9,325.9	9,312.2	28.1	26.6	-179.00	-109.5	-268.0	66.1	11.3	54.77	1.207	Level 3
9,400.0	9,384.5	9,399.2	9,385.3	28.5	26.9	-179.20	-111.7	-274.0	66.1	10.6	55.46	1.192	Level 3
9,500.0	9,484.1	9,499.2	9,484.9	29.0	27.4	-179.46	-114.7	-282.2	66.1	9.7	56.42	1.172	Level 3
9,600.0	9,583.8	9,599.2	9,584.5	29.5	27.8	-179.72	-117.7	-290.4	66.1	8.7	57.37	1.152	Level 3
9,700.0	9,683.4	9,699.2	9,684.1	29.9	28.3	-179.99	-120.6	-298.5	66.1	7.8	58.34	1.133	Level 3
9,800.0	9,783.0	9,799.2	9,783.8	30.4	28.8	-179.75	-123.6	-306.7	66.1	6.8	59.30	1.115	Level 3
9,900.0	9,882.6	9,899.2	9,883.4	30.9	29.3	-179.48	-126.6	-314.9	66.1	5.9	60.27	1.097	Level 3
10,000.0	9,982.2	9,999.2	9,983.0	31.4	29.7	-179.22	-129.6	-323.1	66.1	4.9	61.24	1.080	Level 3
10,100.0	10,081.9	10,099.2	10,082.6	31.9	30.2	-178.96	-132.6	-331.3	66.1	3.9	62.21	1.063	Level 3
10,145.3	10,127.0	10,144.5	10,127.8	32.1	30.4	-178.84	-133.9	-335.0	66.2	3.5	62.64	1.056	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 553H
Project:	Hat Mesa	TVD Reference:	WELL @ 3704.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3704.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 553H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 553H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 553H - Prelim 2	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad C - Anderson Fed Com 702H - Anderson Fed Com 702H - Anderson Fed Com 702H - Prelim 2													Offset Site Error: 0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.0 usft
Reference	Offset	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	
10,150.0	10,131.7	10,149.2	10,132.4	32.1	30.5	178.39	-134.0	-335.4	66.2	3.5	62.69	1.056	Level 3, ES, SF
10,175.0	10,156.5	10,174.2	10,157.3	32.3	30.6	177.02	-134.8	-337.4	67.1	4.1	62.94	1.066	Level 3
10,200.0	10,181.1	10,199.1	10,182.1	32.4	30.7	176.45	-135.5	-339.5	69.3	6.0	63.22	1.096	Level 3
10,225.0	10,205.4	10,223.9	10,206.8	32.6	30.8	176.23	-136.3	-341.5	72.8	9.2	63.52	1.146	Level 3
10,250.0	10,229.5	10,248.4	10,231.2	32.8	31.0	176.20	-137.0	-343.5	77.5	13.7	63.82	1.215	Level 3
10,275.0	10,253.1	10,272.6	10,255.4	33.0	31.1	176.27	-137.7	-345.5	83.6	19.5	64.12	1.304	Level 3
10,300.0	10,276.3	10,296.5	10,279.2	33.1	31.2	176.41	-138.4	-347.5	90.9	26.5	64.43	1.411	Level 3
10,325.0	10,298.9	10,320.0	10,302.6	33.3	31.3	176.57	-139.1	-349.4	99.5	34.7	64.73	1.537	
10,350.0	10,321.0	10,343.0	10,325.5	33.5	31.4	176.75	-139.8	-351.3	109.2	44.2	65.03	1.680	
10,375.0	10,342.4	10,365.5	10,347.9	33.7	31.5	176.92	-140.5	-353.1	120.2	54.9	65.33	1.840	
10,400.0	10,363.1	10,387.3	10,369.6	33.9	31.6	177.08	-141.1	-354.9	132.3	66.7	65.62	2.016	
10,425.0	10,383.0	10,408.5	10,390.7	34.0	31.7	177.22	-141.8	-356.6	145.6	79.7	65.91	2.209	
10,443.8	10,397.5	10,424.0	10,406.1	34.2	31.8	177.32	-142.2	-357.9	156.2	90.1	66.11	2.363	
10,450.0	10,402.2	10,429.0	10,411.2	34.2	31.8	176.05	-142.4	-358.3	159.9	93.7	66.18	2.416	
10,475.0	10,421.3	10,449.4	10,431.5	34.4	31.9	171.18	-143.0	-360.0	174.2	107.8	66.43	2.623	
10,500.0	10,440.5	10,469.9	10,451.9	34.5	32.0	166.66	-143.6	-361.7	188.3	121.7	66.67	2.825	
10,525.0	10,459.8	10,490.5	10,472.4	34.7	32.1	162.42	-144.2	-363.3	202.1	135.2	66.89	3.021	
10,550.0	10,479.1	10,511.0	10,492.8	34.8	32.2	158.42	-144.8	-365.0	215.6	148.5	67.09	3.213	
10,575.0	10,498.4	10,531.5	10,513.2	34.9	32.3	154.65	-145.4	-366.7	228.8	161.5	67.25	3.402	
10,600.0	10,517.6	10,551.8	10,533.5	35.1	32.4	151.11	-146.0	-368.4	241.8	174.4	67.38	3.589	
10,625.0	10,536.7	10,572.0	10,553.6	35.2	32.5	147.79	-146.7	-370.0	254.6	187.1	67.45	3.775	
10,650.0	10,555.6	10,592.0	10,573.5	35.3	32.6	144.69	-147.2	-371.7	267.3	199.8	67.48	3.961	
10,675.0	10,574.2	10,611.7	10,593.1	35.5	32.7	141.80	-147.8	-373.3	279.8	212.4	67.44	4.149	
10,700.0	10,592.6	10,631.0	10,612.4	35.6	32.8	139.13	-148.4	-374.9	292.3	224.9	67.34	4.340	
10,725.0	10,610.7	10,650.0	10,631.3	35.7	32.9	136.65	-149.0	-376.4	304.7	237.6	67.18	4.536	
10,750.0	10,628.4	10,668.5	10,649.7	35.8	33.0	134.36	-149.5	-377.9	317.2	250.3	66.95	4.738	
10,775.0	10,645.6	10,686.5	10,667.6	36.0	33.1	132.23	-150.1	-379.4	329.8	263.1	66.66	4.948	
10,800.0	10,662.4	10,704.0	10,685.0	36.1	33.2	130.25	-150.6	-380.8	342.5	276.2	66.29	5.166	
10,825.0	10,678.6	10,720.8	10,701.9	36.2	33.3	128.39	-151.1	-382.2	355.3	289.4	65.86	5.395	
10,850.0	10,694.3	10,737.1	10,718.0	36.3	33.4	126.63	-151.6	-383.5	368.3	302.9	65.37	5.634	
10,875.0	10,709.4	10,752.7	10,733.6	36.4	33.4	124.94	-152.0	-384.8	381.5	316.7	64.81	5.887	
10,900.0	10,723.8	10,767.5	10,748.3	36.5	33.5	123.31	-152.5	-386.0	395.0	330.8	64.20	6.153	
10,925.0	10,737.5	10,781.6	10,762.4	36.6	33.6	121.70	-152.9	-387.2	408.7	345.2	63.54	6.433	
10,950.0	10,750.5	10,794.8	10,775.6	36.7	33.6	120.10	-153.3	-388.3	422.7	359.9	62.82	6.729	
10,975.0	10,762.7	10,807.3	10,788.0	36.8	33.7	118.48	-153.7	-389.3	437.0	375.0	62.07	7.041	
11,000.0	10,774.1	10,818.8	10,799.5	36.9	33.8	116.84	-154.0	-390.2	451.6	390.4	61.29	7.369	
11,025.0	10,784.7	10,829.5	10,810.1	37.1	33.8	115.15	-154.3	-391.1	466.5	406.1	60.48	7.714	
11,050.0	10,794.5	10,839.2	10,819.8	37.2	33.9	113.39	-154.6	-391.9	481.7	422.1	59.65	8.077	
11,075.0	10,803.3	10,848.0	10,828.5	37.3	33.9	111.57	-154.9	-392.6	497.2	438.4	58.80	8.456	
11,100.0	10,811.2	10,855.7	10,836.2	37.4	33.9	109.68	-155.1	-393.3	513.0	455.0	57.94	8.853	
11,125.0	10,818.3	10,862.5	10,843.0	37.6	34.0	107.70	-155.3	-393.8	529.0	471.9	57.08	9.266	
11,150.0	10,824.3	10,868.3	10,848.7	37.7	34.0	105.65	-155.5	-394.3	545.2	488.9	56.23	9.696	
11,175.0	10,829.4	10,873.0	10,853.4	37.8	34.0	103.53	-155.6	-394.7	561.6	506.2	55.38	10.140	
11,200.0	10,833.5	10,876.6	10,857.0	38.0	34.0	101.34	-155.7	-395.0	578.1	523.6	54.55	10.599	
11,225.0	10,836.6	10,879.2	10,859.6	38.1	34.1	99.10	-155.8	-395.2	594.8	541.0	53.73	11.070	
11,250.0	10,838.7	10,880.7	10,861.1	38.3	34.1	96.82	-155.9	-395.3	611.5	558.6	52.93	11.553	
11,275.0	10,839.8	10,881.1	10,861.6	38.4	34.1	94.54	-155.9	-395.3	628.3	576.1	52.16	12.046	
11,289.8	10,840.0	10,880.9	10,861.3	38.5	34.1	93.19	-155.9	-395.3	638.2	586.5	51.71	12.342	
11,300.0	10,840.0	10,880.6	10,861.0	38.6	34.1	93.15	-155.8	-395.3	645.1	593.7	51.41	12.548	
11,400.0	10,840.0	10,877.7	10,858.1	39.2	34.1	92.80	-155.8	-395.1	716.8	667.9	48.96	14.640	
11,500.0	10,840.0	10,874.7	10,855.2	39.8	34.0	92.44	-155.7	-394.8	794.7	747.4	47.25	16.820	
11,600.0	10,840.0	10,871.8	10,852.2	40.6	34.0	92.09	-155.6	-394.6	877.0	830.9	46.09	19.031	

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 553H
Project:	Hat Mesa	TVD Reference:	WELL @ 3704.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3704.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 553H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 553H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 553H - Prelim 2	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad C - Anderson Fed Com 702H - Anderson Fed Com 702H - Anderson Fed Com 702H - Prelim 2													Offset Site Error: 0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.0 usft
Reference	Offset	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	
11,700.0	10,840.0	10,868.9	10,849.3	41.4	34.0	91.73	-155.5	-394.3	962.7	917.4	45.32	21.241	

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 553H
Project:	Hat Mesa	TVD Reference:	WELL @ 3704.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3704.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 553H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 553H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 553H - Prelim 2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 3704.5usft (Original Well Ele

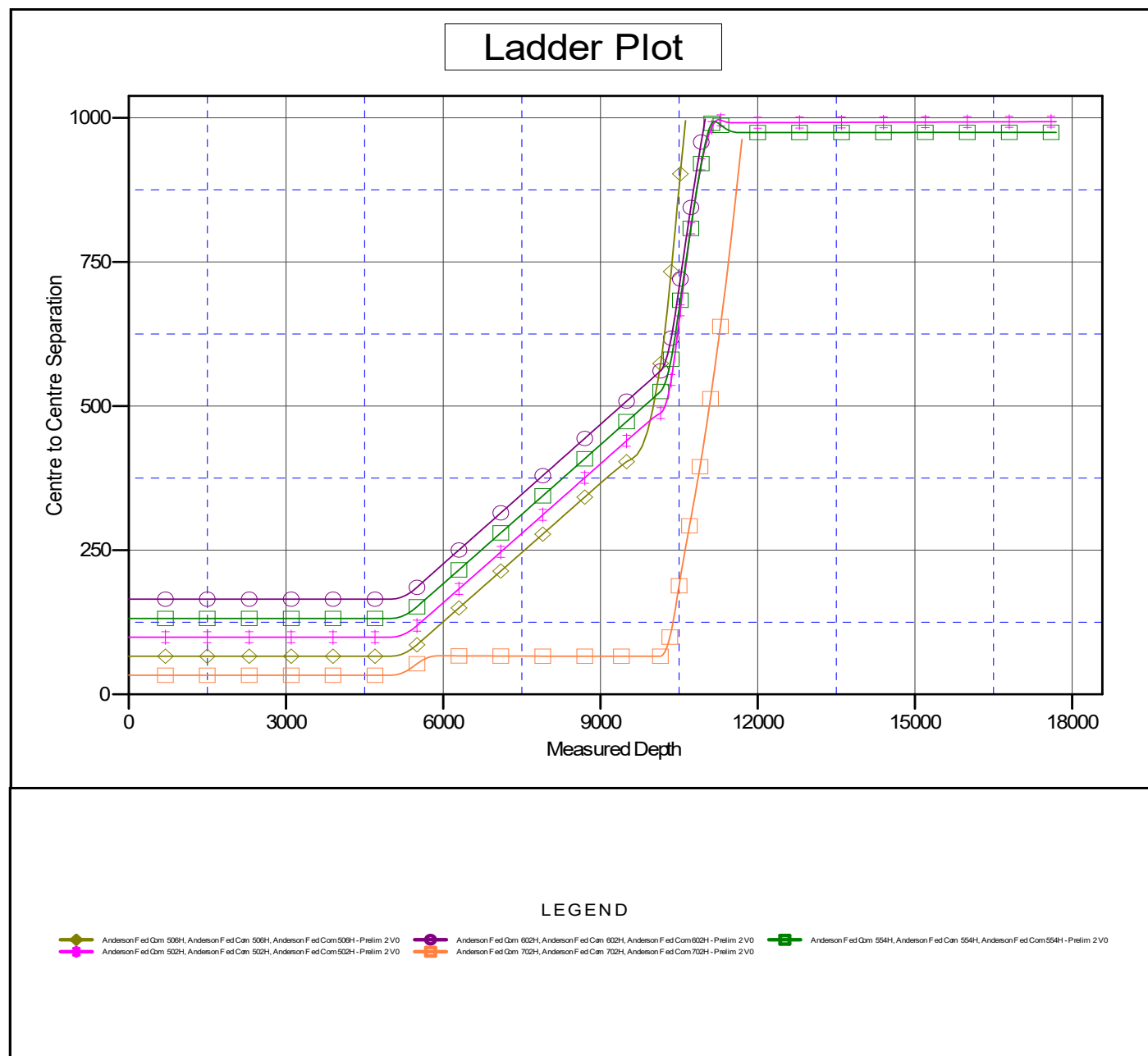
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Anderson Fed Com 553H

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



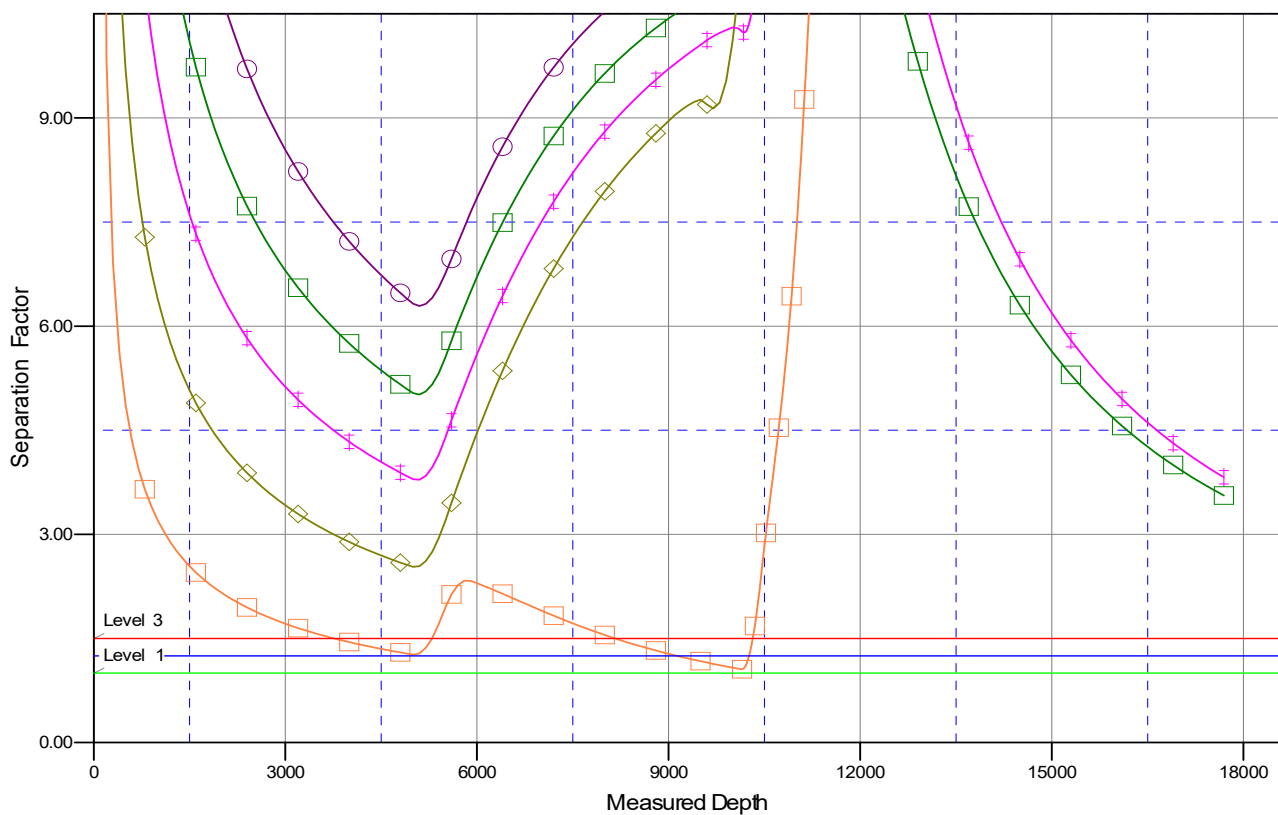
Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 553H
Project:	Hat Mesa	TVD Reference:	WELL @ 3704.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3704.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 553H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 553H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 553H - Prelim 2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 3704.5usft (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 553H
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 506H, Anderson Fed Com 506H, Anderson Fed Com 506H - Prelim 2 V0
 Anderson Fed Com 602H, Anderson Fed Com 602H, Anderson Fed Com 602H - Prelim 2 V0
 Anderson Fed Com 554H, Anderson Fed Com 554H, Anderson Fed Com 554H - Prelim 2 V0
 Anderson Fed Com 502H, Anderson Fed Com 502H, Anderson Fed Com 502H - Prelim 2 V0
 Anderson Fed Com 702H, Anderson Fed Com 702H, Anderson Fed Com 702H - Prelim 2 V0

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: Advance Energy Partners Hat Mesa, LLC **OGRID:** 372417 **Date:** 8/12/21

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Anderson Fed Com 502H	30-025-48993	C-2-22S-32E	180 FNL & 2221 FWL	1000	1260	2900
Anderson Fed Com 553H	30-025-48997	C-2-22S-32E	180 FNL & 2188 FWL	1000	1260	2900
Anderson Fed Com 554H	30-025-48998	C-2-22S-32E	180 FNL & 2254 FWL	1000	1260	2900
Anderson Fed Com 602H	30-025-49002	C-2-22S-32E	180 FNL & 2287 FWL	1000	1260	29008

IV. Central Delivery Point Name: Anderson Fed Com Pad C [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Anderson Fed Com 502H	30-025-48993	8/21/21	9/12/21	1/5/222	2/15/22	3/20/22
Anderson Fed Com 553H	30-025-48997	8/25/21	9/3/21	1/5/22	2/15/22	3/20/22
Anderson Fed Com 554H	30-025-48998	8/18/21	9/22/21	1/5/22	2/15/22	3/20/22
Anderson Fed Com 602H	30-025-49002	8/15/21	10/1/21	1/5/22	2/15/22	3/20/22

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan **EFFECTIVE APRIL 1, 2022**

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☐ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

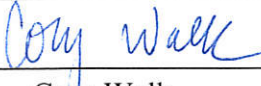
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: 
Printed Name: Cory Walk
Title: Consultant
E-mail Address: cory@permitswest.com
Date: 8/12/21
Phone: (505) 466-8120
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

Natural Gas Management Plan - Attachment

- VI. Separation equipment will be sized by construction engineering staff based on stated manufacturer daily throughput capacities and anticipated daily production rates to ensure adequate capacity. Closed vent system piping, compression needs, and VRUs will be sized utilizing ProMax modelling software to ensure adequate capacity for anticipated production volumes and conditions.
- VII. Advance Energy Partners Hat Mesa, LLC (AEP) will take the following actions to comply with the regulations listed in 19.15.27.8:
- A. AEP will maximize the recovery of natural gas by minimizing the waste, as defined by 19.15.2 NMAC, of natural gas through venting and flaring. AEP will ensure that well(s) will be connected to a natural gas gathering system with sufficient capacity to transport natural gas. If there is no adequate takeaway for the gas, well(s) will be shut in until the natural gas gathering system is available.
 - B. All drilling operations will be equipped with a rig flare located at least 100' from the nearest surface hole. Rig flare will be utilized to combust any natural gas that is brought to surface during normal drilling operations. In the case of emergency venting or flaring the volumes will be estimated and reported appropriately.
 - C. During completion operations any natural gas brought to surface will be flared. Immediately following the finish of completion operations, all well flowback will be directed to permanent separation equipment. Produced natural gas from separation equipment will be sent to sales. It is not anticipated that gas will not meet pipeline standards. However, if natural gas does not meet gathering pipeline quality specifications, AEP will flare the natural gas for 60 days or until the natural gas meets the pipeline quality specifications, whichever is sooner. AEP will ensure that the flare is sized properly and is equipped with automatic igniter or continuous pilot. The gas sample will be analyzed twice per week and the gas will be routed into a gathering system as soon as pipeline specifications are met.
 - D. Natural gas will not be flared with the exceptions and provisions listed in the 19.15.27.8 D.(1) through (4). If there is no adequate takeaway for the separator gas, well(s) will be shut in until the natural gas gathering system is available with exception of emergency or malfunction situations. Venting and/or flaring volumes will be estimated and reported appropriately.
 - E. AEP will comply with the performance standards requirements and provisions listed in 19.15.27.8 E.(1) through (8). All equipment will be designed and sized to handle maximum anticipated pressures and throughputs to minimize the waste. Production storage tanks constructed after May 25, 2021, will be equipped with automatic gauging system. Flares constructed after May 25, 2021, will be equipped with automatic igniter or continuous pilot. Flares will be located at least 100' from the well and storage tanks unless otherwise approved by the division. AEP will conduct AVO inspections as described in 19.15.27.8 E (5) (a) with frequencies specified in 19.15.27.8 E (5) (b) and (c). All emergencies will be resolved as quickly and safely as feasible to minimize waste.
 - F. The volume of natural gas that is vented or flared as the result of malfunction or emergency during drilling and completions operations will be estimated. The volume of natural gas that is vented, flared, or beneficially used during production operations, will be measured, or estimated. AEP will install equipment to measure

the volume of natural gas flared from existing process piping, or a flowline piped from equipment such as high-pressure separators, heater treaters, or vapor recovery units associated with a well or facility associated with a well authorized by an APD issued after May 25, 2021, that has an average daily production greater than 60 Mcf/day. If metering is not practicable due to circumstances such as low flow rate or low pressure venting and flaring, AEP will estimate the volume of vented or flared natural gas. Measuring equipment will conform to industry standards and will not be designed or equipped with a manifold that allows the diversion of natural gas around the metering element except for the sole purpose of inspecting and servicing the measurement equipment.

- VIII. For maintenance activities involving production equipment and compression, venting will be limited to the depressurization of the subject equipment to ensure safe working conditions. For maintenance of production and compression equipment the associated producing wells will be shut in to eliminate venting. For maintenance of VRUs all gas normally routed to the VRU will be routed to flare to eliminate venting.

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) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 41710

CONDITIONS

Operator: ADVANCE ENERGY PARTNERS HAT MESA, LLC 11490 Westheimer Rd., Ste 950 Houston, TX 77077	OGRID: 372417
	Action Number: 41710
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	8/12/2021