

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

Sundry ID: 2630921

Type of Submission: Notice of Intent	Type of Action: Other
Date Sundry Submitted: 08/26/2021	Time Sundry Submitted: 01:32
Date proposed operation will begin: 09/01/2021	

Procedure Description: Request to move Bottom Hole Location from 1220' FSL & 1254' FWL, Section 26, T-21-S, R-32-E, SWSW to 2540' FSL & 1254' FWL, Section 26, T-21-S, R-32-E, NESW. Please see attached drill plan, directional plan, and plat 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_Sundry_Attachment_v3_20210826132046.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 26, 2021 01:20 PM

Name: ADVANCE ENERGY PARTNERS HAT MESA LLC

Title: President

Street Address: 37 VERANO LOOP

City: SANTA FE State: NM

Phone: (505) 466-8120

Email address: AFMSS@PERMITSWEST.COM

Field Representative

Representative Name:

Street Address:

City: State: Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: cwalls@blm.gov

Disposition: Approved

Disposition Date: 10/13/2021

Signature: Chris Walls

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

DISTRICT II
811 S. First St., Artesia, NM 88210
Phone (575) 748-1283 Fax: (575) 748-9720

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

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised August 4, 2011

Submit one copy to appropriate
District Office

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-48997	Pool Code 51683	Pool Name Red Tank; Bone Spring
Property Code	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
L	26	21 S	32 E		2540	SOUTH	1254	WEST	LEA
Dedicated Acres 240	Joint or Infill	Consolidation Code C	Order No.						

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

BOTTOM HOLE LOCATION
Lat - N 32.449534°
Long - W 103.649874°
NMSPC - N 527946.2
E 752163.6
(NAD-83)

FIRST TAKE POINT
100' FSL & 1254' FWL
Lat - N 32.428303°
Long - W 103.649893°
NMSPC - N 520222.2
E 752207.3
(NAD-83)

SURFACE LOCATION
Lat - N 32.427546°
Long - W 103.646864°
NMSPC - N 519952.8
E 753143.5
(NAD-83)

OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unLEASED mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Cory Walk **08-26-21**
Signature Date

Cory Walk
Printed Name

cory@permitswest.com
Email Address

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

JULY 22, 2020
Date Surveyed

[Signature]
Signature & Seal of Professional Surveyor

7977
Certificate No. Gary L. Jones

7977
BASIN SURVEYORS

0' 1500' 3000' 4500' 6000'
SCALE: 1" = 3000'
WO Num.: 35436

CHANGE TO PLANS

Move Bottom Hole Location

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

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

Please see attached drill plan, directional plan, and plat 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 2540' 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	10631'	10700'	hydrocarbons)
2 nd Bone Spring sandstone	10407'	10456'	hydrocarbons
TD	10889'	19148'	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 2540' 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' - 19148'	0' - 10889'	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 2540' 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	650	1.9	1235	12.8	85%	B Poz + C	6% Gel + 5% SALT + 0.25PPS Pol-E-Flake + 0.005GPS NoFoam V1A
	Tail	982	215	1.35	290	14.8	20%	C	2% CaCl ₂ + 0.005GPS NoFoam V1A
1st Intermediate (stage 1)	Lead	3350	1380	1.84	2539	12.8	1747%	B Poz + C	2% Gel + 5% SALT + 0.15% R-1300 + 0.25PPS Pol-E-Flake + 0.005GPS NoFoam V1A
	Tail	3787	310	1.22	378	15.6	20%	H	5% SALT + 0.2% SMS + 0.35% C-20 + 0.005GPS NoFoam V1A
1st Intermediate (stage 2)	Lead	0	595	3.00	1785	11	153%	ProLite	5PPS Plexcrete STE + 2% SMS + 0.05% SuspendaCem 6302 + 0.5% C-47B + 3PPS Gilsonite + 0.005GPS NoFoam V1A
	Tail	2945	100	1.33	133	14.8	0%	C	0.05% C-20 + 0.005GPS NoFoam V1A
Production	Lead	0	990	3.39	3356	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	10299	2215	1.22	2702	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 3,350'.

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

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 2540' FSL & 1254' FWL Sec. 26, T 21 S., R. 32 E.

Lea County, NM

"Anderson Fed Com Pad C"

site at all times. Mud program may change due to hole conditions. A closed loop system will be used.

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' - 10299'	9.2 - 9.5	28 - 30	N/C
OBM	10299' - 19148'	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**

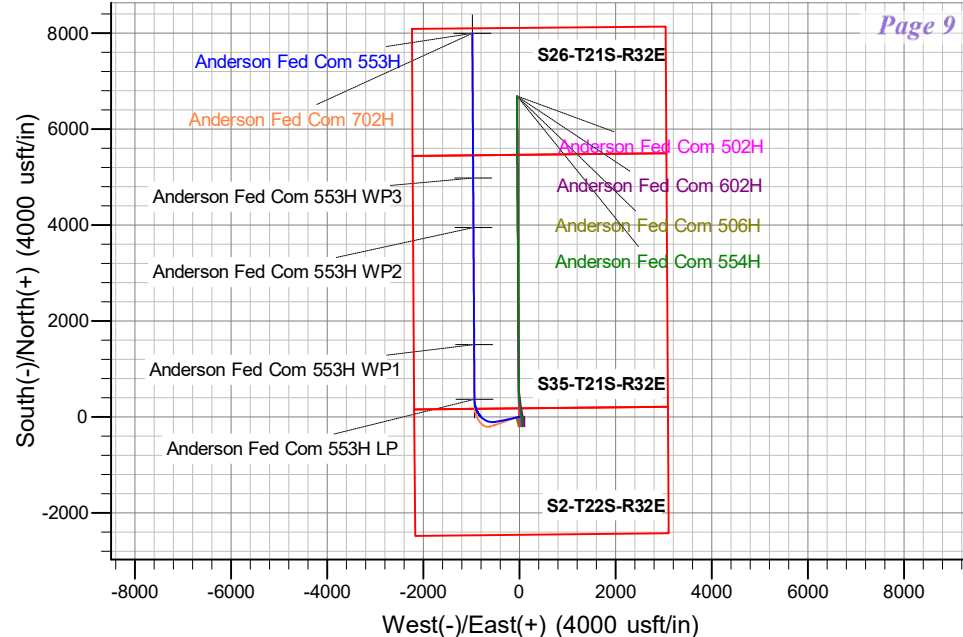
Ground Elev: 3672.0 KB: 3704.5

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

PROJECT DETAILS: Hat Mesa

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

System Datum: Mean Sea Level

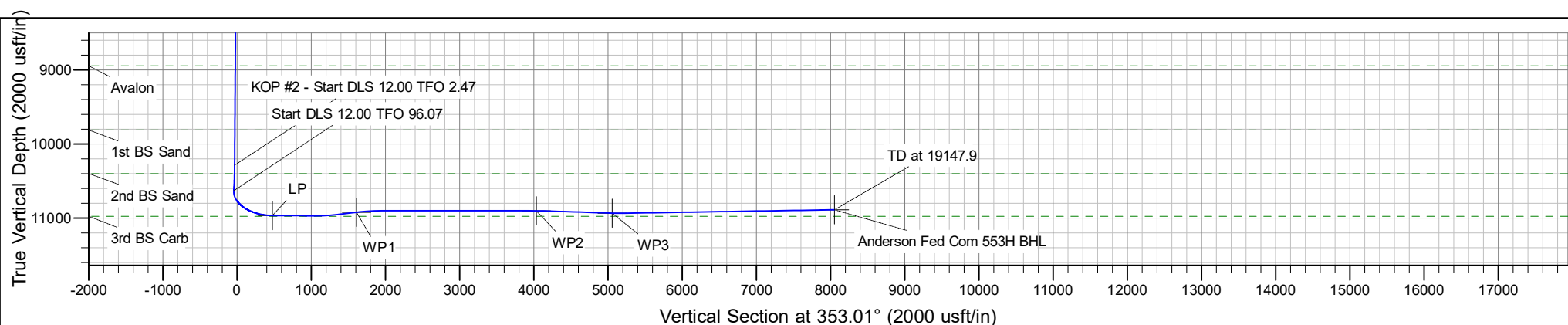
**SECTION DETAILS**

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	5300.0	0.00	0.00	5300.0	0.0	0.0	0.00	0.00	0.0	KOP - Start Build 1.00
3	5700.0	4.00	257.50	5699.7	-3.0	-13.6	1.00	257.50	-1.3	Start 4598.5 hold at 5700.0 MD
4	10298.5	4.00	257.50	10287.0	-72.4	-326.8	0.00	0.00	-32.1	KOP #2 - Start DLS 12.00 TFO 2.47
5	10700.4	52.24	259.83	10631.1	-105.5	-507.7	12.00	2.47	-43.0	Start DLS 12.00 TFO 96.07
6	11515.0	90.00	359.67	10966.0	365.0	-936.4	12.00	96.07	476.2	LP - Start 293.9 hold at 11515.0 MD
7	11808.9	90.00	359.67	10966.0	658.9	-938.0	0.00	0.00	768.2	Start DLS 2.00 TFO -179.18
8	11940.0	87.38	359.64	10969.0	790.0	-938.8	2.00	-179.18	898.4	Start DLS 2.00 TFO 0.19
9	12414.7	96.87	359.67	10951.4	1263.7	-941.7	2.00	0.19	1368.9	Start 246.0 hold at 12414.7 MD
10	12660.7	96.87	359.67	10922.0	1508.0	-943.1	0.00	0.00	1611.6	WP1 - Start DLS 2.00 TFO 179.98
11	13005.0	89.98	359.67	10901.4	1851.5	-945.1	2.00	179.98	1952.7	Start 2096.6 hold at 13005.0 MD
12	15101.5	89.98	359.67	10902.0	3948.0	-957.1	0.00	0.00	4035.1	WP2 - Start DLS 2.00 TFO 180.00
13	15194.0	88.14	359.67	10903.5	4040.4	-957.6	2.00	180.00	4126.9	Start 937.1 hold at 15194.0 MD
14	16131.1	88.14	359.67	10934.0	4977.0	-963.0	0.00	0.00	5057.2	WP3 - Start DLS 2.00 TFO 0.15
15	16270.2	90.92	359.68	10935.1	5116.1	-963.8	2.00	0.15	5195.4	Start 2877.7 hold at 16270.2 MD
16	19147.9	90.92	359.68	10889.0	7993.4	-979.9	0.00	0.00	8053.2	TD at 19147.9



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

25 August, 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:	519,952.79 usft	Latitude:	32° 25' 39.166 N
	+E/-W	0.0 usft	Easting:	753,143.60 usft	Longitude:	103° 38' 48.710 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,672.0 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	47,722.58212532

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	353.01	

Plan Survey Tool Program	Date	8/25/2021			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	19,147.9	Anderson Fed Com 553H - Prelim	MWD+HRGM	
			OWSG MWD + HRGM		



Planning Report

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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		

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	
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,700.0	4.00	257.50	5,699.7	-3.0	-13.6	1.00	1.00	0.00	257.50	
10,298.5	4.00	257.50	10,287.0	-72.4	-326.8	0.00	0.00	0.00	0.00	
10,700.4	52.24	259.83	10,631.1	-105.5	-507.7	12.00	12.00	0.58	2.47	
11,515.0	90.00	359.67	10,966.0	365.0	-936.4	12.00	4.64	12.26	96.07	Anderson Fed Com 5
11,808.9	90.00	359.67	10,966.0	658.9	-938.0	0.00	4.64	12.26	0.00	
11,940.0	87.38	359.64	10,969.0	790.0	-938.8	2.00	-2.00	-0.03	-179.18	
12,414.7	96.87	359.67	10,951.4	1,263.7	-941.7	2.00	2.00	0.01	0.19	
12,660.7	96.87	359.67	10,922.0	1,508.0	-943.1	0.00	0.00	0.00	0.00	Anderson Fed Com 5
13,005.0	89.98	359.67	10,901.4	1,851.5	-945.1	2.00	-2.00	0.00	179.98	
15,101.5	89.98	359.67	10,902.0	3,948.0	-957.1	0.00	0.00	0.00	0.00	Anderson Fed Com 5
15,194.0	88.14	359.67	10,903.5	4,040.4	-957.6	2.00	-2.00	0.00	180.00	
16,131.1	88.14	359.67	10,934.0	4,977.0	-963.0	0.00	0.00	0.00	0.00	Anderson Fed Com 5
16,270.2	90.92	359.68	10,935.1	5,116.1	-963.8	2.00	2.00	0.01	0.15	
19,147.9	90.92	359.68	10,889.0	7,993.4	-979.9	0.00	0.00	0.00	0.00	Anderson Fed Com 5



Planning Report

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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
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Anderson Fed Com 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)
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP - Start Build 1.00									
5,400.0	1.00	257.50	5,400.0	-0.2	-0.9	-0.1	1.00	1.00	0.00
5,500.0	2.00	257.50	5,500.0	-0.8	-3.4	-0.3	1.00	1.00	0.00
5,600.0	3.00	257.50	5,599.9	-1.7	-7.7	-0.8	1.00	1.00	0.00
5,700.0	4.00	257.50	5,699.7	-3.0	-13.6	-1.3	1.00	1.00	0.00
Start 4598.5 hold at 5700.0 MD									
5,800.0	4.00	257.50	5,799.4	-4.5	-20.4	-2.0	0.00	0.00	0.00
5,900.0	4.00	257.50	5,899.2	-6.0	-27.2	-2.7	0.00	0.00	0.00
6,000.0	4.00	257.50	5,998.9	-7.6	-34.1	-3.4	0.00	0.00	0.00
6,100.0	4.00	257.50	6,098.7	-9.1	-40.9	-4.0	0.00	0.00	0.00
6,200.0	4.00	257.50	6,198.5	-10.6	-47.7	-4.7	0.00	0.00	0.00
6,300.0	4.00	257.50	6,298.2	-12.1	-54.5	-5.4	0.00	0.00	0.00
6,400.0	4.00	257.50	6,398.0	-13.6	-61.3	-6.0	0.00	0.00	0.00
6,500.0	4.00	257.50	6,497.7	-15.1	-68.1	-6.7	0.00	0.00	0.00
6,600.0	4.00	257.50	6,597.5	-16.6	-74.9	-7.4	0.00	0.00	0.00
6,700.0	4.00	257.50	6,697.2	-18.1	-81.7	-8.0	0.00	0.00	0.00
6,800.0	4.00	257.50	6,797.0	-19.6	-88.5	-8.7	0.00	0.00	0.00
6,900.0	4.00	257.50	6,896.8	-21.1	-95.3	-9.4	0.00	0.00	0.00
7,000.0	4.00	257.50	6,996.5	-22.6	-102.2	-10.0	0.00	0.00	0.00
7,100.0	4.00	257.50	7,096.3	-24.2	-109.0	-10.7	0.00	0.00	0.00
7,200.0	4.00	257.50	7,196.0	-25.7	-115.8	-11.4	0.00	0.00	0.00
7,300.0	4.00	257.50	7,295.8	-27.2	-122.6	-12.1	0.00	0.00	0.00
7,400.0	4.00	257.50	7,395.5	-28.7	-129.4	-12.7	0.00	0.00	0.00
7,500.0	4.00	257.50	7,495.3	-30.2	-136.2	-13.4	0.00	0.00	0.00
7,600.0	4.00	257.50	7,595.0	-31.7	-143.0	-14.1	0.00	0.00	0.00
7,700.0	4.00	257.50	7,694.8	-33.2	-149.8	-14.7	0.00	0.00	0.00
7,800.0	4.00	257.50	7,794.6	-34.7	-156.6	-15.4	0.00	0.00	0.00
7,900.0	4.00	257.50	7,894.3	-36.2	-163.5	-16.1	0.00	0.00	0.00
8,000.0	4.00	257.50	7,994.1	-37.7	-170.3	-16.7	0.00	0.00	0.00
8,100.0	4.00	257.50	8,093.8	-39.3	-177.1	-17.4	0.00	0.00	0.00
8,200.0	4.00	257.50	8,193.6	-40.8	-183.9	-18.1	0.00	0.00	0.00
8,300.0	4.00	257.50	8,293.3	-42.3	-190.7	-18.8	0.00	0.00	0.00
8,400.0	4.00	257.50	8,393.1	-43.8	-197.5	-19.4	0.00	0.00	0.00
8,431.0	4.00	257.50	8,424.0	-44.3	-199.6	-19.6	0.00	0.00	0.00
Lower Brushy									
8,500.0	4.00	257.50	8,492.9	-45.3	-204.3	-20.1	0.00	0.00	0.00
8,600.0	4.00	257.50	8,592.6	-46.8	-211.1	-20.8	0.00	0.00	0.00
8,700.0	4.00	257.50	8,692.4	-48.3	-217.9	-21.4	0.00	0.00	0.00
8,800.0	4.00	257.50	8,792.1	-49.8	-224.7	-22.1	0.00	0.00	0.00
8,900.0	4.00	257.50	8,891.9	-51.3	-231.6	-22.8	0.00	0.00	0.00
8,952.2	4.00	257.50	8,944.0	-52.1	-235.1	-23.1	0.00	0.00	0.00
Avalon									
9,000.0	4.00	257.50	8,991.6	-52.8	-238.4	-23.4	0.00	0.00	0.00
9,100.0	4.00	257.50	9,091.4	-54.4	-245.2	-24.1	0.00	0.00	0.00
9,200.0	4.00	257.50	9,191.1	-55.9	-252.0	-24.8	0.00	0.00	0.00
9,300.0	4.00	257.50	9,290.9	-57.4	-258.8	-25.5	0.00	0.00	0.00
9,400.0	4.00	257.50	9,390.7	-58.9	-265.6	-26.1	0.00	0.00	0.00
9,500.0	4.00	257.50	9,490.4	-60.4	-272.4	-26.8	0.00	0.00	0.00
9,600.0	4.00	257.50	9,590.2	-61.9	-279.2	-27.5	0.00	0.00	0.00



Planning Report

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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)
9,700.0	4.00	257.50	9,689.9	-63.4	-286.0	-28.1	0.00	0.00	0.00
9,800.0	4.00	257.50	9,789.7	-64.9	-292.8	-28.8	0.00	0.00	0.00
9,821.4	4.00	257.50	9,811.0	-65.2	-294.3	-28.9	0.00	0.00	0.00
1st BS Sand									
9,900.0	4.00	257.50	9,889.4	-66.4	-299.7	-29.5	0.00	0.00	0.00
10,000.0	4.00	257.50	9,989.2	-67.9	-306.5	-30.1	0.00	0.00	0.00
10,100.0	4.00	257.50	10,089.0	-69.5	-313.3	-30.8	0.00	0.00	0.00
10,200.0	4.00	257.50	10,188.7	-71.0	-320.1	-31.5	0.00	0.00	0.00
10,298.5	4.00	257.50	10,287.0	-72.4	-326.8	-32.1	0.00	0.00	0.00
KOP #2 - Start DLS 12.00 TFO 2.47									
10,300.0	4.18	257.60	10,288.5	-72.5	-326.9	-32.2	12.00	11.99	7.09
10,400.0	16.18	259.37	10,386.7	-75.8	-344.2	-33.4	12.00	12.00	1.76
10,412.8	17.72	259.42	10,399.0	-76.5	-347.9	-33.6	12.00	12.00	0.42
2nd BS Sand									
10,500.0	28.18	259.64	10,479.1	-82.7	-381.3	-35.7	12.00	12.00	0.25
10,600.0	40.18	259.76	10,561.7	-92.7	-436.4	-38.9	12.00	12.00	0.12
10,700.0	52.19	259.83	10,630.8	-105.5	-507.3	-42.9	12.00	12.00	0.07
10,700.4	52.24	259.83	10,631.1	-105.5	-507.7	-43.0	12.00	12.00	0.06
Start DLS 12.00 TFO 96.07									
10,800.0	51.95	274.98	10,692.5	-109.1	-585.7	-37.0	12.00	-0.29	15.23
10,900.0	53.59	289.93	10,753.2	-91.9	-663.1	-10.5	12.00	1.64	14.95
11,000.0	56.99	303.95	10,810.3	-54.6	-736.0	35.4	12.00	3.40	14.02
11,100.0	61.83	316.73	10,861.4	1.1	-801.2	98.6	12.00	4.83	12.78
11,200.0	67.74	328.29	10,904.1	72.8	-855.9	176.4	12.00	5.91	11.56
11,300.0	74.39	338.86	10,936.6	157.4	-897.8	265.5	12.00	6.66	10.57
11,400.0	81.52	348.74	10,957.5	251.2	-924.9	361.9	12.00	7.13	9.88
11,500.0	88.89	358.26	10,965.9	350.0	-936.1	461.3	12.00	7.37	9.52
11,515.0	90.00	359.67	10,966.0	365.0	-936.4	476.2	12.00	7.42	9.44
LP - Start 293.9 hold at 11515.0 MD - Anderson Fed Com 553H LP									
11,600.0	90.00	359.67	10,966.0	450.0	-936.8	560.7	0.00	0.00	0.00
11,700.0	90.00	359.67	10,966.0	550.0	-937.4	660.0	0.00	0.00	0.00
11,800.0	90.00	359.67	10,966.0	650.0	-938.0	759.3	0.00	0.00	0.00
11,808.9	90.00	359.67	10,966.0	658.9	-938.0	768.2	0.00	0.00	0.00
Start DLS 2.00 TFO -179.18									
11,900.0	88.18	359.65	10,967.4	750.0	-938.6	858.6	2.00	-2.00	-0.03
11,940.0	87.38	359.64	10,969.0	790.0	-938.8	898.4	2.00	-2.00	-0.03
Start DLS 2.00 TFO 0.19									
12,000.0	88.58	359.64	10,971.1	849.9	-939.2	957.9	2.00	2.00	0.01
12,100.0	90.58	359.65	10,971.9	949.9	-939.8	1,057.2	2.00	2.00	0.01
12,200.0	92.58	359.65	10,969.1	1,049.9	-940.4	1,156.5	2.00	2.00	0.01
12,300.0	94.58	359.66	10,962.9	1,149.7	-941.0	1,255.6	2.00	2.00	0.01
12,400.0	96.58	359.67	10,953.1	1,249.2	-941.6	1,354.5	2.00	2.00	0.01
12,414.7	96.87	359.67	10,951.4	1,263.7	-941.7	1,368.9	2.00	2.00	0.01
Start 246.0 hold at 12414.7 MD									
12,500.0	96.87	359.67	10,941.2	1,348.5	-942.2	1,453.1	0.00	0.00	0.00
12,600.0	96.87	359.67	10,929.3	1,447.7	-942.8	1,551.7	0.00	0.00	0.00
12,660.7	96.87	359.67	10,922.0	1,508.0	-943.1	1,611.6	0.00	0.00	0.00
WP1 - Start DLS 2.00 TFO 179.98 - Anderson Fed Com 553H WP1									
12,700.0	96.08	359.67	10,917.6	1,547.1	-943.3	1,650.4	2.00	-2.00	0.00
12,800.0	94.08	359.67	10,908.7	1,646.7	-943.9	1,749.3	2.00	-2.00	0.00
12,900.0	92.08	359.67	10,903.3	1,746.5	-944.5	1,848.5	2.00	-2.00	0.00
13,000.0	90.08	359.67	10,901.4	1,846.5	-945.0	1,947.8	2.00	-2.00	0.00
13,005.0	89.98	359.67	10,901.4	1,851.5	-945.1	1,952.7	2.00	-2.00	0.00



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Well:	Anderson Fed Com 553H	Survey Calculation Method:	Minimum Curvature
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Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Start 2096.6 hold at 13005.0 MD									
13,100.0	89.98	359.67	10,901.5	1,946.5	-945.6	2,047.1	0.00	0.00	0.00
13,200.0	89.98	359.67	10,901.5	2,046.5	-946.2	2,146.4	0.00	0.00	0.00
13,300.0	89.98	359.67	10,901.5	2,146.5	-946.8	2,245.7	0.00	0.00	0.00
13,400.0	89.98	359.67	10,901.5	2,246.5	-947.3	2,345.1	0.00	0.00	0.00
13,500.0	89.98	359.67	10,901.6	2,346.5	-947.9	2,444.4	0.00	0.00	0.00
13,600.0	89.98	359.67	10,901.6	2,446.5	-948.5	2,543.7	0.00	0.00	0.00
13,700.0	89.98	359.67	10,901.6	2,546.5	-949.1	2,643.0	0.00	0.00	0.00
13,800.0	89.98	359.67	10,901.6	2,646.5	-949.6	2,742.4	0.00	0.00	0.00
13,900.0	89.98	359.67	10,901.7	2,746.5	-950.2	2,841.7	0.00	0.00	0.00
14,000.0	89.98	359.67	10,901.7	2,846.5	-950.8	2,941.0	0.00	0.00	0.00
14,100.0	89.98	359.67	10,901.7	2,946.5	-951.4	3,040.3	0.00	0.00	0.00
14,200.0	89.98	359.67	10,901.8	3,046.5	-951.9	3,139.7	0.00	0.00	0.00
14,300.0	89.98	359.67	10,901.8	3,146.5	-952.5	3,239.0	0.00	0.00	0.00
14,400.0	89.98	359.67	10,901.8	3,246.5	-953.1	3,338.3	0.00	0.00	0.00
14,500.0	89.98	359.67	10,901.8	3,346.5	-953.7	3,437.6	0.00	0.00	0.00
14,600.0	89.98	359.67	10,901.9	3,446.5	-954.2	3,537.0	0.00	0.00	0.00
14,700.0	89.98	359.67	10,901.9	3,546.5	-954.8	3,636.3	0.00	0.00	0.00
14,800.0	89.98	359.67	10,901.9	3,646.5	-955.4	3,735.6	0.00	0.00	0.00
14,900.0	89.98	359.67	10,901.9	3,746.5	-955.9	3,834.9	0.00	0.00	0.00
15,000.0	89.98	359.67	10,902.0	3,846.5	-956.5	3,934.3	0.00	0.00	0.00
15,100.0	89.98	359.67	10,902.0	3,946.5	-957.1	4,033.6	0.00	0.00	0.00
15,101.5	89.98	359.67	10,902.0	3,948.0	-957.1	4,035.1	0.00	0.00	0.00
WP2 - Start DLS 2.00 TFO 180.00 - Anderson Fed Com 553H WP2									
15,194.0	88.14	359.67	10,903.5	4,040.4	-957.6	4,126.9	2.00	-2.00	0.00
Start 937.1 hold at 15194.0 MD									
15,200.0	88.14	359.67	10,903.7	4,046.4	-957.7	4,132.9	0.00	0.00	0.00
15,300.0	88.14	359.67	10,907.0	4,146.4	-958.2	4,232.2	0.00	0.00	0.00
15,400.0	88.14	359.67	10,910.2	4,246.3	-958.8	4,331.4	0.00	0.00	0.00
15,500.0	88.14	359.67	10,913.5	4,346.3	-959.4	4,430.7	0.00	0.00	0.00
15,600.0	88.14	359.67	10,916.7	4,446.2	-960.0	4,530.0	0.00	0.00	0.00
15,700.0	88.14	359.67	10,920.0	4,546.2	-960.5	4,629.3	0.00	0.00	0.00
15,800.0	88.14	359.67	10,923.2	4,646.1	-961.1	4,728.5	0.00	0.00	0.00
15,900.0	88.14	359.67	10,926.5	4,746.0	-961.7	4,827.8	0.00	0.00	0.00
16,000.0	88.14	359.67	10,929.7	4,846.0	-962.2	4,927.1	0.00	0.00	0.00
16,100.0	88.14	359.67	10,933.0	4,945.9	-962.8	5,026.3	0.00	0.00	0.00
16,131.1	88.14	359.67	10,934.0	4,977.0	-963.0	5,057.2	0.00	0.00	0.00
WP3 - Start DLS 2.00 TFO 0.15 - Anderson Fed Com 553H WP3									
16,200.0	89.51	359.68	10,935.4	5,045.9	-963.4	5,125.6	2.00	2.00	0.01
16,270.2	90.92	359.68	10,935.1	5,116.1	-963.8	5,195.4	2.00	2.00	0.01
Start 2877.7 hold at 16270.2 MD									
16,300.0	90.92	359.68	10,934.7	5,145.9	-964.0	5,225.0	0.00	0.00	0.00
16,400.0	90.92	359.68	10,933.1	5,245.9	-964.5	5,324.3	0.00	0.00	0.00
16,500.0	90.92	359.68	10,931.5	5,345.9	-965.1	5,423.6	0.00	0.00	0.00
16,600.0	90.92	359.68	10,929.9	5,445.9	-965.6	5,522.9	0.00	0.00	0.00
16,700.0	90.92	359.68	10,928.3	5,545.8	-966.2	5,622.2	0.00	0.00	0.00
16,800.0	90.92	359.68	10,926.7	5,645.8	-966.8	5,721.5	0.00	0.00	0.00
16,900.0	90.92	359.68	10,925.0	5,745.8	-967.3	5,820.8	0.00	0.00	0.00
17,000.0	90.92	359.68	10,923.4	5,845.8	-967.9	5,920.1	0.00	0.00	0.00
17,100.0	90.92	359.68	10,921.8	5,945.8	-968.4	6,019.4	0.00	0.00	0.00
17,200.0	90.92	359.68	10,920.2	6,045.8	-969.0	6,118.8	0.00	0.00	0.00
17,300.0	90.92	359.68	10,918.6	6,145.8	-969.6	6,218.1	0.00	0.00	0.00
17,400.0	90.92	359.68	10,917.0	6,245.7	-970.1	6,317.4	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)	
17,500.0	90.92	359.68	10,915.4	6,345.7	-970.7	6,416.7	0.00	0.00	0.00	
17,600.0	90.92	359.68	10,913.8	6,445.7	-971.2	6,516.0	0.00	0.00	0.00	
17,700.0	90.92	359.68	10,912.2	6,545.7	-971.8	6,615.3	0.00	0.00	0.00	
17,800.0	90.92	359.68	10,910.6	6,645.7	-972.4	6,714.6	0.00	0.00	0.00	
17,900.0	90.92	359.68	10,909.0	6,745.7	-972.9	6,813.9	0.00	0.00	0.00	
18,000.0	90.92	359.68	10,907.4	6,845.7	-973.5	6,913.2	0.00	0.00	0.00	
18,100.0	90.92	359.68	10,905.8	6,945.6	-974.0	7,012.5	0.00	0.00	0.00	
18,200.0	90.92	359.68	10,904.2	7,045.6	-974.6	7,111.9	0.00	0.00	0.00	
18,300.0	90.92	359.68	10,902.6	7,145.6	-975.2	7,211.2	0.00	0.00	0.00	
18,400.0	90.92	359.68	10,901.0	7,245.6	-975.7	7,310.5	0.00	0.00	0.00	
18,500.0	90.92	359.68	10,899.4	7,345.6	-976.3	7,409.8	0.00	0.00	0.00	
18,600.0	90.92	359.68	10,897.8	7,445.6	-976.9	7,509.1	0.00	0.00	0.00	
18,700.0	90.92	359.68	10,896.2	7,545.5	-977.4	7,608.4	0.00	0.00	0.00	
18,800.0	90.92	359.68	10,894.6	7,645.5	-978.0	7,707.7	0.00	0.00	0.00	
18,900.0	90.92	359.68	10,893.0	7,745.5	-978.5	7,807.0	0.00	0.00	0.00	
19,000.0	90.92	359.68	10,891.4	7,845.5	-979.1	7,906.3	0.00	0.00	0.00	
19,100.0	90.92	359.68	10,889.8	7,945.5	-979.7	8,005.7	0.00	0.00	0.00	
19,147.9	90.92	359.68	10,889.0	7,993.4	-979.9	8,053.2	0.00	0.00	0.00	
TD at 19147.9 - 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	Longitude	
- hit/miss target										
- Shape										
Anderson Fed Com 553H - plan hits target center - Point	0.00	0.00	10,889.0	7,993.4	-979.9	527,946.17	752,163.67	32° 26' 58.322 N	103° 38' 59.546 W	
Anderson Fed Com 553H - plan hits target center - Point	0.00	0.00	10,902.0	3,948.0	-957.1	523,900.79	752,186.50	32° 26' 18.292 N	103° 38' 59.582 W	
Anderson Fed Com 553H - plan hits target center - Point	0.00	0.00	10,922.0	1,508.0	-943.1	521,460.79	752,200.50	32° 25' 54.147 N	103° 38' 59.601 W	
Anderson Fed Com 553H - plan hits target center - Point	0.00	0.00	10,934.0	4,977.0	-963.0	524,929.79	752,180.60	32° 26' 28.474 N	103° 38' 59.574 W	
Anderson Fed Com 553H - plan hits target center - Point	0.00	0.00	10,966.0	365.0	-936.4	520,317.79	752,207.24	32° 25' 42.837 N	103° 38' 59.608 W	

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
11,515.0	10,966.0	LP	5-1/2	5-1/2	



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		

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	
8,431.0	8,424.0	Lower Brushy		0.00	
8,952.2	8,944.0	Avalon		0.00	
9,821.4	9,811.0	1st BS Sand		0.00	
10,412.8	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	
5,300.0	5,300.0	0.0	0.0	KOP - Start Build 1.00	
5,700.0	5,699.7	-3.0	-13.6	Start 4598.5 hold at 5700.0 MD	
10,298.5	10,287.0	-72.4	-326.8	KOP #2 - Start DLS 12.00 TFO 2.47	
10,700.4	10,631.1	-105.5	-507.7	Start DLS 12.00 TFO 96.07	
11,515.0	10,966.0	365.0	-936.4	LP - Start 293.9 hold at 11515.0 MD	
11,808.9	10,966.0	658.9	-938.0	Start DLS 2.00 TFO -179.18	
11,940.0	10,969.0	790.0	-938.8	Start DLS 2.00 TFO 0.19	
12,414.7	10,951.4	1,263.7	-941.7	Start 246.0 hold at 12414.7 MD	
12,660.7	10,922.0	1,508.0	-943.1	WP1 - Start DLS 2.00 TFO 179.98	
13,005.0	10,901.4	1,851.5	-945.1	Start 2096.6 hold at 13005.0 MD	
15,101.5	10,902.0	3,948.0	-957.1	WP2 - Start DLS 2.00 TFO 180.00	
15,194.0	10,903.5	4,040.4	-957.6	Start 937.1 hold at 15194.0 MD	
16,131.1	10,934.0	4,977.0	-963.0	WP3 - Start DLS 2.00 TFO 0.15	
16,270.2	10,935.1	5,116.1	-963.8	Start 2877.7 hold at 16270.2 MD	
19,147.9	10,889.0	7,993.4	-979.9	TD at 19147.9	



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

25 August, 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 8/25/2021				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	19,147.9	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	5,302.1	5,301.1	33.0	6.0	1.222	Level 3, CC, ES, SF
Anderson Fed Com 506H - Anderson Fed Com 506H - A	6,031.3	6,029.6	44.0	15.4	1.540	CC, ES
Anderson Fed Com 506H - Anderson Fed Com 506H - A	6,100.0	6,098.0	44.4	15.5	1.539	SF
Anderson Fed Com 554H - Anderson Fed Com 554H - A	5,300.0	5,299.0	65.4	38.4	2.417	CC, ES, SF
Anderson Fed Com 602H - Anderson Fed Com 602H - A	5,300.0	5,299.0	99.0	72.0	3.660	CC, ES
Anderson Fed Com 602H - Anderson Fed Com 602H - A	5,400.0	5,399.0	99.9	72.6	3.656	SF
Anderson Fed Com 702H - Anderson Fed Com 702H - A	5,714.3	5,711.1	32.4	4.5	1.159	Level 3, CC, ES
Anderson Fed Com 702H - Anderson Fed Com 702H - A	10,600.0	10,577.2	54.7	7.3	1.154	Level 3, SF

Offset Design:	Anderson Fed Com - Pad C - Anderson Fed Com 502H - Anderson Fed Com 502H - Anderson Fed Com 502H - Prelim 2										Offset Site Error:	0.0 usft
Survey Program:	0-MWD+HRGM										Offset Well Error:	0.0 usft
Reference	Vertical	Offset	Vertical	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Minimum	Separation	Warning
Measured Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	
0.0	0.0	0.0	0.0	0.0	0.0	89.00	0.6	33.0	33.0			
100.0	100.0	99.0	99.0	0.5	0.5	89.00	0.6	33.0	33.0	32.0	1.06	31.296
200.0	200.0	199.0	199.0	1.7	1.7	89.00	0.6	33.0	33.0	29.6	3.41	9.678
300.0	300.0	299.0	299.0	2.4	2.4	89.00	0.6	33.0	33.0	28.2	4.82	6.856
400.0	400.0	399.0	399.0	3.0	2.9	89.00	0.6	33.0	33.0	27.1	5.90	5.594
500.0	500.0	499.0	499.0	3.4	3.4	89.00	0.6	33.0	33.0	26.2	6.83	4.837
600.0	600.0	599.0	599.0	3.8	3.8	89.00	0.6	33.0	33.0	25.4	7.64	4.319
700.0	700.0	699.0	699.0	4.2	4.2	89.00	0.6	33.0	33.0	24.6	8.39	3.935
800.0	800.0	799.0	799.0	4.5	4.5	89.00	0.6	33.0	33.0	23.9	9.08	3.636
900.0	900.0	899.0	899.0	4.9	4.9	89.00	0.6	33.0	33.0	23.3	9.73	3.394
1,000.0	1,000.0	999.0	999.0	5.2	5.2	89.00	0.6	33.0	33.0	22.7	10.34	3.194
1,100.0	1,100.0	1,099.0	1,099.0	5.5	5.5	89.00	0.6	33.0	33.0	22.1	10.92	3.024
1,200.0	1,200.0	1,199.0	1,199.0	5.7	5.7	89.00	0.6	33.0	33.0	21.5	11.48	2.877
1,300.0	1,300.0	1,299.0	1,299.0	6.0	6.0	89.00	0.6	33.0	33.0	21.0	12.01	2.749
1,400.0	1,400.0	1,399.0	1,399.0	6.3	6.3	89.00	0.6	33.0	33.0	20.5	12.53	2.635
1,500.0	1,500.0	1,499.0	1,499.0	6.5	6.5	89.00	0.6	33.0	33.0	20.0	13.03	2.534
1,600.0	1,600.0	1,599.0	1,599.0	6.8	6.8	89.00	0.6	33.0	33.0	19.5	13.51	2.443
1,700.0	1,700.0	1,699.0	1,699.0	7.0	7.0	89.00	0.6	33.0	33.0	19.0	13.99	2.361
1,800.0	1,800.0	1,799.0	1,799.0	7.2	7.2	89.00	0.6	33.0	33.0	18.6	14.45	2.285
1,900.0	1,900.0	1,899.0	1,899.0	7.4	7.4	89.00	0.6	33.0	33.0	18.1	14.90	2.216

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)			
2,000.0	2,000.0	1,999.0	1,999.0	7.7	7.7	89.00	0.6	33.0	33.0	17.7	15.34	2.153	
2,100.0	2,100.0	2,099.0	2,099.0	7.9	7.9	89.00	0.6	33.0	33.0	17.2	15.77	2.094	
2,200.0	2,200.0	2,199.0	2,199.0	8.1	8.1	89.00	0.6	33.0	33.0	16.8	16.19	2.039	
2,300.0	2,300.0	2,299.0	2,299.0	8.3	8.3	89.00	0.6	33.0	33.0	16.4	16.61	1.988	
2,400.0	2,400.0	2,399.0	2,399.0	8.5	8.5	89.00	0.6	33.0	33.0	16.0	17.01	1.941	
2,500.0	2,500.0	2,499.0	2,499.0	8.7	8.7	89.00	0.6	33.0	33.0	15.6	17.42	1.896	
2,600.0	2,600.0	2,599.0	2,599.0	8.9	8.9	89.00	0.6	33.0	33.0	15.2	17.81	1.854	
2,700.0	2,700.0	2,699.0	2,699.0	9.1	9.1	89.00	0.6	33.0	33.0	14.8	18.20	1.814	
2,800.0	2,800.0	2,799.0	2,799.0	9.3	9.3	89.00	0.6	33.0	33.0	14.4	18.58	1.777	
2,900.0	2,900.0	2,899.0	2,899.0	9.5	9.5	89.00	0.6	33.0	33.0	14.1	18.96	1.741	
3,000.0	3,000.0	2,999.0	2,999.0	9.7	9.7	89.00	0.6	33.0	33.0	13.7	19.34	1.707	
3,100.0	3,100.0	3,099.0	3,099.0	9.9	9.9	89.00	0.6	33.0	33.0	13.3	19.71	1.675	
3,200.0	3,200.0	3,199.0	3,199.0	10.0	10.0	89.00	0.6	33.0	33.0	12.9	20.07	1.645	
3,300.0	3,300.0	3,299.0	3,299.0	10.2	10.2	89.00	0.6	33.0	33.0	12.6	20.43	1.616	
3,400.0	3,400.0	3,399.0	3,399.0	10.4	10.4	89.00	0.6	33.0	33.0	12.2	20.79	1.588	
3,500.0	3,500.0	3,499.0	3,499.0	10.6	10.6	89.00	0.6	33.0	33.0	11.9	21.15	1.561	
3,600.0	3,600.0	3,599.0	3,599.0	10.7	10.7	89.00	0.6	33.0	33.0	11.5	21.50	1.536	
3,700.0	3,700.0	3,699.0	3,699.0	10.9	10.9	89.00	0.6	33.0	33.0	11.2	21.84	1.511	
3,800.0	3,800.0	3,799.0	3,799.0	11.1	11.1	89.00	0.6	33.0	33.0	10.8	22.19	1.488 Level 3	
3,900.0	3,900.0	3,899.0	3,899.0	11.3	11.3	89.00	0.6	33.0	33.0	10.5	22.53	1.465 Level 3	
4,000.0	4,000.0	3,999.0	3,999.0	11.4	11.4	89.00	0.6	33.0	33.0	10.1	22.87	1.444 Level 3	
4,100.0	4,100.0	4,099.0	4,099.0	11.6	11.6	89.00	0.6	33.0	33.0	9.8	23.21	1.423 Level 3	
4,200.0	4,200.0	4,199.0	4,199.0	11.8	11.8	89.00	0.6	33.0	33.0	9.5	23.54	1.403 Level 3	
4,300.0	4,300.0	4,299.0	4,299.0	11.9	11.9	89.00	0.6	33.0	33.0	9.1	23.87	1.383 Level 3	
4,400.0	4,400.0	4,399.0	4,399.0	12.1	12.1	89.00	0.6	33.0	33.0	8.8	24.20	1.364 Level 3	
4,500.0	4,500.0	4,499.0	4,499.0	12.3	12.3	89.00	0.6	33.0	33.0	8.5	24.52	1.346 Level 3	
4,600.0	4,600.0	4,599.0	4,599.0	12.4	12.4	89.00	0.6	33.0	33.0	8.2	24.85	1.329 Level 3	
4,700.0	4,700.0	4,699.0	4,699.0	12.6	12.6	89.00	0.6	33.0	33.0	7.8	25.17	1.312 Level 3	
4,800.0	4,800.0	4,799.0	4,799.0	12.7	12.7	89.00	0.6	33.0	33.0	7.5	25.49	1.295 Level 3	
4,900.0	4,900.0	4,899.0	4,899.0	12.9	12.9	89.00	0.6	33.0	33.0	7.2	25.81	1.279 Level 3	
5,000.0	5,000.0	4,999.0	4,999.0	13.1	13.1	89.00	0.6	33.0	33.0	6.9	26.12	1.264 Level 3	
5,100.0	5,100.0	5,099.0	5,099.0	13.2	13.2	89.00	0.6	33.0	33.0	6.6	26.44	1.249 Level 3	
5,200.0	5,200.0	5,199.0	5,199.0	13.4	13.4	89.00	0.6	33.0	33.0	6.3	26.75	1.234 Level 3	
5,300.0	5,300.0	5,299.0	5,299.0	13.5	13.5	90.49	-0.3	33.0	33.0	6.0	26.98	1.222 Level 3	
5,302.1	5,302.1	5,301.1	5,301.1	13.5	13.5	-166.95	-0.3	33.0	33.0	6.0	26.99	1.222 Level 3, CC, ES, SF	
5,400.0	5,400.0	5,399.0	5,398.9	13.6	13.5	-162.94	-2.9	32.9	33.9	6.7	27.15	1.247 Level 3	
5,500.0	5,500.0	5,498.8	5,498.7	13.7	13.6	-157.53	-7.1	32.8	36.7	9.5	27.25	1.348 Level 3	
5,600.0	5,599.9	5,598.7	5,598.5	13.9	13.6	-153.51	-11.7	32.6	41.5	14.1	27.41	1.515	
5,700.0	5,699.7	5,698.5	5,698.1	14.0	13.7	-151.35	-16.3	32.5	48.0	20.4	27.60	1.740	
5,800.0	5,799.4	5,798.2	5,797.7	14.2	13.9	-150.19	-20.9	32.4	55.3	27.5	27.81	1.988	
5,900.0	5,899.2	5,897.9	5,897.4	14.3	14.0	-149.30	-25.5	32.2	62.6	34.6	28.03	2.233	
6,000.0	5,998.9	5,997.7	5,997.0	14.5	14.2	-148.59	-30.1	32.1	69.9	41.6	28.26	2.473	
6,100.0	6,098.7	6,097.4	6,096.6	14.7	14.3	-148.02	-34.7	32.0	77.2	48.7	28.51	2.708	
6,200.0	6,198.5	6,197.1	6,196.2	14.9	14.5	-147.55	-39.3	31.8	84.5	55.8	28.77	2.938	
6,300.0	6,298.2	6,296.8	6,295.9	15.2	14.7	-147.15	-43.9	31.7	91.9	62.8	29.05	3.162	
6,400.0	6,398.0	6,396.6	6,395.5	15.4	14.9	-146.81	-48.5	31.5	99.2	69.9	29.34	3.381	
6,500.0	6,497.7	6,496.3	6,495.1	15.7	15.1	-146.52	-53.1	31.4	106.5	76.9	29.64	3.594	
6,600.0	6,597.5	6,596.0	6,594.7	15.9	15.4	-146.26	-57.7	31.3	113.9	83.9	29.95	3.802	
6,700.0	6,697.2	6,695.8	6,694.4	16.2	15.6	-146.04	-62.3	31.1	121.2	90.9	30.27	4.003	
6,800.0	6,797.0	6,795.5	6,794.0	16.5	15.9	-145.84	-66.9	31.0	128.5	97.9	30.61	4.199	
6,900.0	6,896.8	6,895.2	6,893.6	16.8	16.1	-145.66	-71.5	30.9	135.9	104.9	30.95	4.390	
7,000.0	6,996.5	6,995.0	6,993.2	17.1	16.4	-145.50	-76.0	30.7	143.2	111.9	31.31	4.574	

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
7,100.0	7,096.3	7,094.7	7,092.9	17.5	16.7	-145.36	-80.6	30.6	150.6	118.9	31.68	4.753	
7,200.0	7,196.0	7,194.4	7,192.5	17.8	16.9	-145.23	-85.2	30.4	157.9	125.9	32.05	4.927	
7,300.0	7,295.8	7,294.1	7,292.1	18.1	17.2	-145.11	-89.8	30.3	165.3	132.8	32.44	5.095	
7,400.0	7,395.5	7,393.9	7,391.7	18.5	17.5	-145.00	-94.4	30.2	172.6	139.8	32.83	5.258	
7,500.0	7,495.3	7,493.6	7,491.3	18.9	17.8	-144.91	-99.0	30.0	179.9	146.7	33.23	5.415	
7,600.0	7,595.0	7,593.3	7,591.0	19.2	18.2	-144.81	-103.6	29.9	187.3	153.7	33.64	5.568	
7,700.0	7,694.8	7,693.1	7,690.6	19.6	18.5	-144.73	-108.2	29.7	194.6	160.6	34.06	5.715	
7,800.0	7,794.6	7,792.8	7,790.2	20.0	18.8	-144.65	-112.8	29.6	202.0	167.5	34.48	5.858	
7,900.0	7,894.3	7,892.5	7,889.8	20.3	19.1	-144.58	-117.4	29.5	209.3	174.4	34.91	5.996	
8,000.0	7,994.1	7,992.2	7,989.5	20.7	19.5	-144.51	-122.0	29.3	216.7	181.3	35.35	6.130	
8,100.0	8,093.8	8,092.0	8,089.1	21.1	19.8	-144.45	-126.6	29.2	224.0	188.2	35.79	6.259	
8,200.0	8,193.6	8,191.7	8,188.7	21.5	20.2	-144.39	-131.2	29.1	231.4	195.1	36.25	6.384	
8,300.0	8,293.3	8,291.4	8,288.3	21.9	20.5	-144.33	-135.8	28.9	238.7	202.0	36.70	6.504	
8,400.0	8,393.1	8,391.2	8,388.0	22.3	20.9	-144.28	-140.4	28.8	246.1	208.9	37.17	6.621	
8,500.0	8,492.9	8,490.9	8,487.6	22.8	21.2	-144.23	-145.0	28.6	253.4	215.8	37.63	6.734	
8,600.0	8,592.6	8,590.6	8,587.2	23.2	21.6	-144.18	-149.6	28.5	260.8	222.7	38.11	6.843	
8,700.0	8,692.4	8,690.3	8,686.8	23.6	22.0	-144.14	-154.2	28.4	268.1	229.5	38.59	6.949	
8,800.0	8,792.1	8,790.1	8,786.4	24.0	22.3	-144.10	-158.8	28.2	275.5	236.4	39.07	7.051	
8,900.0	8,891.9	8,889.8	8,886.1	24.4	22.7	-144.06	-163.4	28.1	282.8	243.3	39.56	7.149	
9,000.0	8,991.6	8,989.5	8,985.7	24.9	23.1	-144.02	-168.0	28.0	290.2	250.1	40.05	7.245	
9,100.0	9,091.4	9,089.3	9,085.3	25.3	23.5	-143.98	-172.6	27.8	297.5	257.0	40.55	7.337	
9,200.0	9,191.1	9,189.0	9,184.9	25.8	23.9	-143.95	-177.1	27.7	304.9	263.8	41.05	7.426	
9,300.0	9,290.9	9,288.7	9,284.6	26.2	24.2	-143.92	-181.7	27.5	312.2	270.7	41.56	7.513	
9,400.0	9,390.7	9,388.5	9,384.2	26.6	24.6	-143.88	-186.3	27.4	319.6	277.5	42.07	7.596	
9,500.0	9,490.4	9,488.2	9,483.8	27.1	25.0	-143.86	-190.9	27.3	326.9	284.3	42.59	7.677	
9,600.0	9,590.2	9,588.0	9,584.5	27.5	25.4	-143.86	-195.4	27.1	334.2	291.1	43.06	7.761	
9,700.0	9,689.9	9,687.7	9,684.4	28.0	25.8	-144.11	-199.8	27.0	340.9	297.3	43.57	7.825	
9,800.0	9,789.7	9,787.5	9,784.4	28.4	26.0	-144.63	-199.4	27.0	347.0	302.9	44.04	7.878	
9,900.0	9,889.4	9,887.2	9,884.4	28.9	26.0	-145.28	-199.4	27.0	352.7	308.2	44.51	7.924	
10,000.0	9,989.2	9,987.0	9,984.4	29.3	26.1	-145.92	-199.4	27.0	358.5	313.5	44.98	7.969	
10,100.0	10,089.0	10,086.8	10,084.4	29.8	26.1	-146.44	-187.6	26.1	360.9	315.3	45.52	7.927	
10,200.0	10,188.7	10,186.5	10,184.4	30.3	26.1	-155.79	-143.2	22.9	354.3	308.0	46.37	7.642	
10,298.5	10,287.0	10,284.8	10,282.6	30.7	24.9	-164.87	-88.7	18.9	347.8	300.6	47.24	7.364	
10,300.0	10,288.5	10,286.3	10,284.1	30.7	24.9	-165.11	-87.9	18.9	347.8	300.5	47.25	7.361	
10,308.9	10,297.3	10,295.1	10,292.9	30.8	24.9	-166.41	-83.1	18.5	347.7	300.3	47.33	7.345	
10,325.0	10,313.3	10,311.1	10,308.9	30.8	24.8	-168.35	-74.5	17.9	348.1	300.6	47.48	7.331	
10,350.0	10,338.1	10,335.9	10,333.7	31.0	24.8	-170.89	-61.7	17.0	350.4	302.7	47.75	7.339	
10,375.0	10,362.5	10,360.3	10,358.1	31.2	24.7	-173.11	-49.5	16.1	355.0	306.9	48.05	7.387	
10,400.0	10,386.7	10,384.5	10,382.3	31.3	24.7	-175.12	-38.1	15.2	361.7	313.3	48.37	7.478	
10,425.0	10,410.5	10,408.3	10,406.1	31.5	24.6	-176.96	-27.5	14.5	370.5	321.8	48.70	7.608	
10,450.0	10,433.9	10,431.7	10,429.5	31.7	24.6	-178.56	-18.3	13.8	381.5	332.5	49.04	7.780	
10,475.0	10,456.8	10,454.6	10,452.4	31.9	24.5	179.69	-8.5	13.1	394.5	345.1	49.40	7.986	
10,500.0	10,479.1	10,476.9	10,474.7	32.0	24.5	178.13	-0.1	12.5	409.3	359.5	49.74	8.229	
10,525.0	10,500.9	10,498.7	10,496.5	32.2	24.5	176.60	7.6	11.9	425.7	375.7	50.07	8.503	
10,550.0	10,521.9	10,519.7	10,517.5	32.4	24.5	175.06	14.5	11.4	443.7	393.3	50.38	8.807	
10,575.0	10,542.2	10,540.0	10,537.8	32.6	24.4	173.17	22.4	10.8	462.9	412.3	50.67	9.137	
10,600.0	10,561.7	10,559.5	10,557.3	32.7	24.4	171.77	26.6	10.5	483.3	432.4	50.93	9.490	
10,625.0	10,580.4	10,578.2	10,576.0	32.9	24.4	169.90	31.7	10.2	504.7	453.5	51.17	9.864	
10,650.0	10,598.2	10,596.0	10,593.8	33.1	24.4	167.75	36.3	9.8	526.9	475.5	51.38	10.256	
10,675.0	10,615.0	10,612.8	10,610.6	33.2	24.4	165.17	40.4	9.5	549.8	498.3	51.56	10.664	
10,700.4	10,631.1	10,628.9	10,626.7	33.4	24.4	161.89	43.8	9.3	573.8	522.0	51.72	11.093	
10,725.0	10,646.2	10,644.0	10,641.8	33.5	24.4	151.11	47.6	9.0	597.0	545.2	51.86	11.512	

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
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)			
10,750.0	10,661.6	10,534.0	10,435.3	33.6	24.4	141.37	51.7	8.7	620.5	568.5	51.99	11.936	
10,775.0	10,677.1	10,539.4	10,437.8	33.7	24.3	132.86	56.4	8.3	643.8	591.7	52.11	12.355	
10,800.0	10,692.5	10,545.3	10,440.5	33.9	24.3	125.44	61.7	8.0	666.8	614.6	52.23	12.767	
10,825.0	10,707.9	10,550.0	10,442.6	34.0	24.3	119.03	65.9	7.7	689.5	637.1	52.34	13.173	
10,850.0	10,723.1	10,558.5	10,446.3	34.1	24.3	113.24	73.5	7.1	711.7	659.2	52.45	13.569	
10,875.0	10,738.3	10,565.9	10,449.4	34.2	24.3	108.16	80.2	6.6	733.5	680.9	52.55	13.957	
10,900.0	10,753.2	10,575.0	10,453.1	34.3	24.3	103.59	88.5	6.0	754.8	702.1	52.66	14.334	
10,925.0	10,767.9	10,581.8	10,455.8	34.5	24.3	99.49	94.8	5.5	775.5	722.8	52.75	14.701	
10,950.0	10,782.4	10,590.4	10,459.0	34.6	24.2	95.76	102.7	5.0	795.7	742.9	52.85	15.057	
10,975.0	10,796.5	10,600.0	10,462.4	34.7	24.2	92.36	111.7	4.3	815.3	762.3	52.94	15.400	
11,000.0	10,810.3	10,608.7	10,465.3	34.8	24.2	89.25	119.8	3.7	834.2	781.2	53.03	15.731	
11,025.0	10,823.8	10,618.3	10,468.4	35.0	24.2	86.39	128.9	3.1	852.4	799.3	53.12	16.049	
11,050.0	10,836.8	10,625.0	10,470.4	35.1	24.2	83.78	135.3	2.6	870.0	816.8	53.18	16.358	
11,075.0	10,849.3	10,638.5	10,474.3	35.2	24.2	81.37	148.2	1.7	886.8	833.5	53.28	16.642	
11,100.0	10,861.4	10,650.0	10,477.2	35.4	24.2	79.16	159.3	0.8	902.8	849.4	53.37	16.916	
11,125.0	10,872.9	10,659.8	10,479.6	35.5	24.1	77.14	168.8	0.2	918.0	864.6	53.45	17.176	
11,150.0	10,883.9	10,675.0	10,482.8	35.6	24.1	75.27	183.6	-0.9	932.5	878.9	53.55	17.412	
11,175.0	10,894.3	10,682.1	10,484.1	35.8	24.1	73.58	190.5	-1.4	946.1	892.4	53.61	17.648	
11,200.0	10,904.1	10,693.6	10,486.0	36.0	24.1	72.03	201.8	-2.3	958.8	905.1	53.69	17.859	
11,225.0	10,913.2	10,700.0	10,487.0	36.1	24.1	70.63	208.1	-2.7	970.7	917.0	53.72	18.068	
11,250.0	10,921.7	10,717.0	10,489.2	36.3	24.1	69.34	224.9	-3.9	981.6	927.8	53.84	18.231	
11,275.0	10,929.5	10,725.0	10,490.0	36.5	24.1	68.20	232.9	-4.5	991.7	937.8	53.88	18.404	

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		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	-90.68	-0.8	-66.0	66.0				
100.0	100.0	100.0	100.0	0.5	0.5	-90.68	-0.8	-66.0	66.0	65.0	1.06	62.276	
200.0	200.0	200.0	200.0	1.7	1.7	-90.68	-0.8	-66.0	66.0	62.6	3.42	19.288	
300.0	300.0	300.0	300.0	2.4	2.4	-90.68	-0.8	-66.0	66.0	61.2	4.82	13.691	
400.0	400.0	400.0	400.0	3.0	3.0	-90.68	-0.8	-66.0	66.0	60.1	5.91	11.177	
500.0	500.0	500.0	500.0	3.4	3.4	-90.68	-0.8	-66.0	66.0	59.2	6.83	9.668	
600.0	600.0	600.0	600.0	3.8	3.8	-90.68	-0.8	-66.0	66.0	58.4	7.65	8.633	
700.0	700.0	700.0	700.0	4.2	4.2	-90.68	-0.8	-66.0	66.0	57.6	8.39	7.867	
800.0	800.0	800.0	800.0	4.5	4.5	-90.68	-0.8	-66.0	66.0	56.9	9.08	7.269	
900.0	900.0	900.0	900.0	4.9	4.9	-90.68	-0.8	-66.0	66.0	56.3	9.73	6.786	
1,000.0	1,000.0	1,000.0	1,000.0	5.2	5.2	-90.68	-0.8	-66.0	66.0	55.7	10.34	6.385	
1,100.0	1,100.0	1,100.0	1,100.0	5.5	5.5	-90.68	-0.8	-66.0	66.0	55.1	10.92	6.045	
1,200.0	1,200.0	1,200.0	1,200.0	5.7	5.7	-90.68	-0.8	-66.0	66.0	54.6	11.48	5.752	
1,300.0	1,300.0	1,300.0	1,300.0	6.0	6.0	-90.68	-0.8	-66.0	66.0	54.0	12.01	5.496	
1,400.0	1,400.0	1,400.0	1,400.0	6.3	6.3	-90.68	-0.8	-66.0	66.0	53.5	12.53	5.269	
1,500.0	1,500.0	1,500.0	1,500.0	6.5	6.5	-90.68	-0.8	-66.0	66.0	53.0	13.03	5.067	
1,600.0	1,600.0	1,600.0	1,600.0	6.8	6.8	-90.68	-0.8	-66.0	66.0	52.5	13.52	4.885	
1,700.0	1,700.0	1,700.0	1,700.0	7.0	7.0	-90.68	-0.8	-66.0	66.0	52.0	13.99	4.720	
1,800.0	1,800.0	1,800.0	1,800.0	7.2	7.2	-90.68	-0.8	-66.0	66.0	51.6	14.45	4.570	
1,900.0	1,900.0	1,900.0	1,900.0	7.4	7.4	-90.68	-0.8	-66.0	66.0	51.1	14.90	4.432	
2,000.0	2,000.0	2,000.0	2,000.0	7.7	7.7	-90.68	-0.8	-66.0	66.0	50.7	15.34	4.305	
2,100.0	2,100.0	2,100.0	2,100.0	7.9	7.9	-90.68	-0.8	-66.0	66.0	50.3	15.77	4.187	
2,200.0	2,200.0	2,200.0	2,200.0	8.1	8.1	-90.68	-0.8	-66.0	66.0	49.8	16.19	4.078	
2,300.0	2,300.0	2,300.0	2,300.0	8.3	8.3	-90.68	-0.8	-66.0	66.0	49.4	16.61	3.976	
2,400.0	2,400.0	2,400.0	2,400.0	8.5	8.5	-90.68	-0.8	-66.0	66.0	49.0	17.02	3.881	
2,500.0	2,500.0	2,500.0	2,500.0	8.7	8.7	-90.68	-0.8	-66.0	66.0	48.6	17.42	3.791	
2,600.0	2,600.0	2,600.0	2,600.0	8.9	8.9	-90.68	-0.8	-66.0	66.0	48.2	17.81	3.707	
2,700.0	2,700.0	2,700.0	2,700.0	9.1	9.1	-90.68	-0.8	-66.0	66.0	47.8	18.20	3.628	
2,800.0	2,800.0	2,800.0	2,800.0	9.3	9.3	-90.68	-0.8	-66.0	66.0	47.4	18.59	3.553	
2,900.0	2,900.0	2,900.0	2,900.0	9.5	9.5	-90.68	-0.8	-66.0	66.0	47.1	18.96	3.482	
3,000.0	3,000.0	3,000.0	3,000.0	9.7	9.7	-90.68	-0.8	-66.0	66.0	46.7	19.34	3.414	
3,100.0	3,100.0	3,100.0	3,100.0	9.9	9.9	-90.68	-0.8	-66.0	66.0	46.3	19.71	3.350	
3,200.0	3,200.0	3,200.0	3,200.0	10.0	10.0	-90.68	-0.8	-66.0	66.0	46.0	20.07	3.289	
3,300.0	3,300.0	3,300.0	3,300.0	10.2	10.2	-90.68	-0.8	-66.0	66.0	45.6	20.44	3.231	
3,400.0	3,400.0	3,400.0	3,400.0	10.4	10.4	-90.68	-0.8	-66.0	66.0	45.2	20.79	3.176	
3,500.0	3,500.0	3,500.0	3,500.0	10.6	10.6	-90.68	-0.8	-66.0	66.0	44.9	21.15	3.122	
3,600.0	3,600.0	3,600.0	3,600.0	10.7	10.7	-90.68	-0.8	-66.0	66.0	44.5	21.50	3.071	
3,700.0	3,700.0	3,700.0	3,700.0	10.9	10.9	-90.68	-0.8	-66.0	66.0	44.2	21.85	3.023	
3,800.0	3,800.0	3,800.0	3,800.0	11.1	11.1	-90.68	-0.8	-66.0	66.0	43.8	22.19	2.976	
3,900.0	3,900.0	3,900.0	3,900.0	11.3	11.3	-90.68	-0.8	-66.0	66.0	43.5	22.53	2.931	
4,000.0	4,000.0	4,000.0	4,000.0	11.4	11.4	-90.68	-0.8	-66.0	66.0	43.2	22.87	2.887	
4,100.0	4,100.0	4,100.0	4,100.0	11.6	11.6	-90.68	-0.8	-66.0	66.0	42.8	23.21	2.845	
4,200.0	4,200.0	4,200.0	4,200.0	11.8	11.8	-90.68	-0.8	-66.0	66.0	42.5	23.54	2.805	
4,300.0	4,300.0	4,300.0	4,300.0	11.9	11.9	-90.68	-0.8	-66.0	66.0	42.2	23.87	2.766	
4,400.0	4,400.0	4,400.0	4,400.0	12.1	12.1	-90.68	-0.8	-66.0	66.0	41.8	24.20	2.729	
4,500.0	4,500.0	4,500.0	4,500.0	12.3	12.3	-90.68	-0.8	-66.0	66.0	41.5	24.53	2.692	
4,600.0	4,600.0	4,600.0	4,600.0	12.4	12.4	-90.68	-0.8	-66.0	66.0	41.2	24.85	2.657	
4,700.0	4,700.0	4,700.0	4,700.0	12.6	12.6	-90.68	-0.8	-66.0	66.0	40.9	25.17	2.623	
4,800.0	4,800.0	4,800.0	4,800.0	12.7	12.7	-90.68	-0.8	-66.0	66.0	40.5	25.49	2.590	
4,900.0	4,900.0	4,900.0	4,900.0	12.9	12.9	-90.68	-0.8	-66.0	66.0	40.2	25.81	2.558	
5,000.0	5,000.0	5,000.3	5,000.3	13.1	13.0	-91.42	-1.6	-65.8	65.8	39.8	26.05	2.526	
5,100.0	5,100.0	5,100.5	5,100.5	13.2	13.1	-93.67	-4.2	-65.1	65.2	39.0	26.27	2.483	

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	Rule Assigned:											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
				(usft)	(usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,200.0	5,200.0	5,200.6	5,200.4	13.4	13.1	-97.46	-8.4	-63.9	64.5	38.0	26.46	2.437	
5,300.0	5,300.0	5,300.5	5,300.2	13.5	13.2	-101.93	-13.2	-62.6	64.0	37.3	26.66	2.400	
5,400.0	5,400.0	5,400.3	5,399.9	13.6	13.3	-4.00	-18.1	-61.3	63.0	36.2	26.84	2.348	
5,500.0	5,500.0	5,500.2	5,499.6	13.7	13.5	-8.92	-22.9	-59.9	60.7	33.7	27.01	2.248	
5,600.0	5,599.9	5,599.9	5,599.3	13.9	13.6	-14.62	-27.8	-58.6	57.2	30.0	27.21	2.103	
5,700.0	5,699.7	5,699.6	5,698.8	14.0	13.8	-21.67	-32.6	-57.3	52.7	25.3	27.44	1.922	
5,800.0	5,799.4	5,799.2	5,798.3	14.2	14.0	-30.36	-37.5	-55.9	48.4	20.7	27.72	1.748	
5,900.0	5,899.2	5,898.8	5,897.8	14.3	14.2	-40.45	-42.3	-54.6	45.4	17.4	28.04	1.621	
6,000.0	5,998.9	5,998.4	5,997.3	14.5	14.4	-51.55	-47.1	-53.3	44.0	15.6	28.42	1.550	
6,031.3	6,030.1	6,029.6	6,028.4	14.6	14.5	-55.12	-48.7	-52.9	44.0	15.4	28.55	1.540 CC, ES	
6,100.0	6,098.7	6,098.0	6,096.8	14.7	14.6	-62.92	-52.0	-51.9	44.4	15.5	28.83	1.539 SF	
6,200.0	6,198.5	6,197.7	6,196.2	14.9	14.8	-73.72	-56.8	-50.6	46.4	17.2	29.24	1.587	
6,300.0	6,298.2	6,297.3	6,295.7	15.2	15.1	-83.31	-61.7	-49.3	49.9	20.3	29.64	1.684	
6,400.0	6,398.0	6,396.9	6,395.2	15.4	15.3	-91.45	-66.5	-48.0	54.6	24.6	30.03	1.820	
6,500.0	6,497.7	6,496.5	6,494.7	15.7	15.6	-98.19	-71.3	-46.6	60.3	29.9	30.41	1.982	
6,600.0	6,597.5	6,596.1	6,594.2	15.9	15.9	-103.72	-76.2	-45.3	66.6	35.8	30.79	2.164	
6,700.0	6,697.2	6,695.7	6,693.7	16.2	16.2	-108.25	-81.0	-44.0	73.5	42.3	31.17	2.356	
6,800.0	6,797.0	6,795.3	6,793.2	16.5	16.5	-112.00	-85.9	-42.6	80.7	49.1	31.57	2.556	
6,900.0	6,896.8	6,894.9	6,892.6	16.8	16.8	-115.12	-90.7	-41.3	88.2	56.2	31.98	2.758	
7,000.0	6,996.5	6,994.5	6,992.1	17.1	17.1	-117.75	-95.5	-40.0	95.9	63.5	32.40	2.961	
7,100.0	7,096.3	7,094.2	7,091.6	17.5	17.4	-119.98	-100.4	-38.6	103.8	71.0	32.83	3.162	
7,200.0	7,196.0	7,193.8	7,191.1	17.8	17.7	-121.90	-105.2	-37.3	111.9	78.6	33.27	3.362	
7,300.0	7,295.8	7,293.4	7,290.6	18.1	18.0	-123.55	-110.1	-36.0	120.0	86.3	33.73	3.557	
7,400.0	7,395.5	7,393.0	7,390.1	18.5	18.4	-125.00	-114.9	-34.6	128.2	94.0	34.20	3.750	
7,500.0	7,495.3	7,492.6	7,489.6	18.9	18.7	-126.27	-119.7	-33.3	136.5	101.8	34.67	3.937	
7,600.0	7,595.0	7,592.2	7,589.0	19.2	19.1	-127.39	-124.6	-32.0	144.9	109.7	35.16	4.120	
7,700.0	7,694.8	7,691.8	7,688.5	19.6	19.4	-128.39	-129.4	-30.7	153.3	117.6	35.66	4.298	
7,800.0	7,794.6	7,791.4	7,788.0	20.0	19.8	-129.29	-134.3	-29.3	161.7	125.6	36.17	4.472	
7,900.0	7,894.3	7,891.1	7,887.5	20.3	20.1	-130.10	-139.1	-28.0	170.2	133.5	36.69	4.640	
8,000.0	7,994.1	7,990.7	7,987.0	20.7	20.5	-130.83	-143.9	-26.7	178.7	141.5	37.21	4.803	
8,100.0	8,093.8	8,090.3	8,086.5	21.1	20.9	-131.49	-148.8	-25.3	187.3	149.5	37.75	4.962	
8,200.0	8,193.6	8,189.9	8,186.0	21.5	21.3	-132.10	-153.6	-24.0	195.8	157.6	38.29	5.115	
8,300.0	8,293.3	8,289.5	8,285.4	21.9	21.6	-132.65	-158.5	-22.7	204.4	165.6	38.84	5.264	
8,400.0	8,393.1	8,389.1	8,384.9	22.3	22.0	-133.17	-163.3	-21.3	213.0	173.6	39.39	5.408	
8,500.0	8,492.9	8,488.7	8,484.4	22.8	22.4	-133.64	-168.1	-20.0	221.7	181.7	39.95	5.548	
8,600.0	8,592.6	8,588.3	8,583.9	23.2	22.8	-134.07	-173.0	-18.7	230.3	189.8	40.52	5.683	
8,700.0	8,692.4	8,688.0	8,683.4	23.6	23.2	-134.48	-177.8	-17.3	238.9	197.8	41.10	5.814	
8,800.0	8,792.1	8,787.6	8,782.9	24.0	23.6	-134.85	-182.7	-16.0	247.6	205.9	41.68	5.940	
8,900.0	8,891.9	8,887.2	8,882.4	24.4	24.0	-135.20	-187.5	-14.7	256.3	214.0	42.27	6.063	
9,000.0	8,991.6	8,986.8	8,981.8	24.9	24.4	-135.53	-192.3	-13.4	264.9	222.1	42.86	6.181	
9,100.0	9,091.4	9,086.9	9,083.9	25.3	24.8	-135.91	-196.9	-12.1	273.3	229.9	43.43	6.292	
9,200.0	9,191.1	9,192.3	9,187.2	25.8	25.1	-136.52	-199.7	-11.3	280.4	236.4	44.00	6.373	
9,300.0	9,290.9	9,295.7	9,290.6	26.2	25.3	-137.37	-200.8	-11.0	286.3	241.8	44.46	6.439	
9,400.0	9,390.7	9,395.8	9,390.7	26.6	25.4	-138.30	-200.8	-11.0	291.5	246.6	44.85	6.499	
9,500.0	9,490.4	9,522.9	9,517.2	27.1	25.2	-141.05	-191.3	-11.1	293.5	248.4	45.10	6.508	
9,600.0	9,590.2	9,648.0	9,635.1	27.5	24.7	-149.40	-150.8	-11.3	285.9	240.6	45.24	6.318	
9,700.0	9,689.9	9,746.8	9,718.5	28.0	24.4	-160.41	-98.0	-11.6	278.1	232.9	45.24	6.147	
9,727.4	9,717.2	9,769.3	9,735.8	28.1	24.3	-163.43	-83.7	-11.7	277.6	232.3	45.23	6.137	
9,800.0	9,789.7	9,820.9	9,772.8	28.4	24.1	-170.93	-47.8	-11.9	282.0	236.7	45.35	6.218	
9,900.0	9,889.4	9,875.0	9,807.3	28.9	23.9	-179.33	-6.1	-12.1	305.1	258.9	46.15	6.611	
10,000.0	9,989.2	9,917.8	9,831.0	29.3	23.8	173.96	29.4	-12.3	347.9	300.5	47.46	7.330	
10,100.0	10,089.0	9,950.0	9,846.8	29.8	23.8	169.02	57.6	-12.4	406.6	357.7	48.83	8.326	

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		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	
10,200.0	10,188.7	9,975.0	9,857.6	30.3	23.7	165.33	80.1	-12.6	476.4	426.4	50.05	9.519	
10,298.5	10,287.0	10,000.0	9,867.3	30.7	23.7	161.80	103.1	-12.7	552.8	501.8	51.03	10.833	
10,300.0	10,288.5	10,000.0	9,867.3	30.7	23.7	161.61	103.1	-12.7	554.0	502.9	51.05	10.852	
10,325.0	10,313.3	10,000.0	9,867.3	30.8	23.7	159.02	103.1	-12.7	574.6	523.3	51.33	11.194	
10,350.0	10,338.1	10,000.0	9,867.3	31.0	23.7	156.57	103.1	-12.7	596.2	544.6	51.61	11.553	
10,375.0	10,362.5	10,007.7	9,870.1	31.2	23.7	152.54	110.3	-12.7	618.5	566.7	51.79	11.943	
10,400.0	10,386.7	10,011.1	9,871.2	31.3	23.7	148.37	113.5	-12.8	641.4	589.4	51.99	12.337	
10,425.0	10,410.5	10,014.2	9,872.3	31.5	23.7	143.15	116.4	-12.8	664.9	612.7	52.18	12.742	
10,450.0	10,433.9	10,017.1	9,873.2	31.7	23.7	136.40	119.1	-12.8	688.7	636.4	52.35	13.156	
10,475.0	10,456.8	10,025.0	9,875.8	31.9	23.6	126.96	126.6	-12.8	712.9	660.5	52.47	13.588	
10,500.0	10,479.1	10,025.0	9,875.8	32.0	23.6	115.88	126.6	-12.8	737.3	684.6	52.63	14.010	
10,525.0	10,500.9	10,025.0	9,875.8	32.2	23.6	101.78	126.6	-12.8	761.8	709.0	52.77	14.436	
10,550.0	10,521.9	10,025.0	9,875.8	32.4	23.6	85.61	126.6	-12.8	786.4	733.5	52.90	14.866	
10,575.0	10,542.2	10,025.0	9,875.8	32.6	23.6	69.68	126.6	-12.8	811.0	757.9	53.01	15.299	
10,600.0	10,561.7	10,025.0	9,875.8	32.7	23.6	56.13	126.6	-12.8	835.5	782.4	53.10	15.734	
10,625.0	10,580.4	10,025.0	9,875.8	32.9	23.6	45.61	126.6	-12.8	859.9	806.7	53.18	16.169	
10,650.0	10,598.2	10,025.0	9,875.8	33.1	23.6	37.73	126.6	-12.8	884.1	830.9	53.25	16.605	
10,675.0	10,615.0	10,025.0	9,875.8	33.2	23.6	31.82	126.6	-12.8	908.2	854.9	53.30	17.039	
10,700.4	10,631.1	10,025.0	9,875.8	33.4	23.6	27.26	126.6	-12.8	932.3	879.0	53.34	17.480	
10,725.0	10,646.2	10,033.1	9,878.3	33.5	23.6	33.82	134.3	-12.9	955.4	902.0	53.34	17.910	
10,750.0	10,661.6	10,034.3	9,878.6	33.6	23.6	38.27	135.5	-12.9	978.7	925.4	53.38	18.334	

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		Distance		Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
0.0	0.0	0.0	0.0	0.0	0.0	89.31	0.8	65.4	65.4			
100.0	100.0	99.0	99.0	0.5	0.5	89.31	0.8	65.4	65.4	64.4	1.06	62.004
200.0	200.0	199.0	199.0	1.7	1.7	89.31	0.8	65.4	65.4	62.0	3.41	19.174
300.0	300.0	299.0	299.0	2.4	2.4	89.31	0.8	65.4	65.4	60.6	4.82	13.583
400.0	400.0	399.0	399.0	3.0	2.9	89.31	0.8	65.4	65.4	59.5	5.90	11.082
500.0	500.0	499.0	499.0	3.4	3.4	89.31	0.8	65.4	65.4	58.6	6.83	9.584
600.0	600.0	599.0	599.0	3.8	3.8	89.31	0.8	65.4	65.4	57.8	7.64	8.557
700.0	700.0	699.0	699.0	4.2	4.2	89.31	0.8	65.4	65.4	57.0	8.39	7.797
800.0	800.0	799.0	799.0	4.5	4.5	89.31	0.8	65.4	65.4	56.3	9.08	7.204
900.0	900.0	899.0	899.0	4.9	4.9	89.31	0.8	65.4	65.4	55.7	9.73	6.725
1,000.0	1,000.0	999.0	999.0	5.2	5.2	89.31	0.8	65.4	65.4	55.1	10.34	6.327
1,100.0	1,100.0	1,099.0	1,099.0	5.5	5.5	89.31	0.8	65.4	65.4	54.5	10.92	5.990
1,200.0	1,200.0	1,199.0	1,199.0	5.7	5.7	89.31	0.8	65.4	65.4	53.9	11.48	5.700
1,300.0	1,300.0	1,299.0	1,299.0	6.0	6.0	89.31	0.8	65.4	65.4	53.4	12.01	5.446
1,400.0	1,400.0	1,399.0	1,399.0	6.3	6.3	89.31	0.8	65.4	65.4	52.9	12.53	5.221
1,500.0	1,500.0	1,499.0	1,499.0	6.5	6.5	89.31	0.8	65.4	65.4	52.4	13.03	5.021
1,600.0	1,600.0	1,599.0	1,599.0	6.8	6.8	89.31	0.8	65.4	65.4	51.9	13.51	4.840
1,700.0	1,700.0	1,699.0	1,699.0	7.0	7.0	89.31	0.8	65.4	65.4	51.4	13.99	4.677
1,800.0	1,800.0	1,799.0	1,799.0	7.2	7.2	89.31	0.8	65.4	65.4	51.0	14.45	4.528
1,900.0	1,900.0	1,899.0	1,899.0	7.4	7.4	89.31	0.8	65.4	65.4	50.5	14.90	4.391
2,000.0	2,000.0	1,999.0	1,999.0	7.7	7.7	89.31	0.8	65.4	65.4	50.1	15.34	4.265
2,100.0	2,100.0	2,099.0	2,099.0	7.9	7.9	89.31	0.8	65.4	65.4	49.6	15.77	4.149
2,200.0	2,200.0	2,199.0	2,199.0	8.1	8.1	89.31	0.8	65.4	65.4	49.2	16.19	4.040
2,300.0	2,300.0	2,299.0	2,299.0	8.3	8.3	89.31	0.8	65.4	65.4	48.8	16.61	3.939
2,400.0	2,400.0	2,399.0	2,399.0	8.5	8.5	89.31	0.8	65.4	65.4	48.4	17.01	3.845
2,500.0	2,500.0	2,499.0	2,499.0	8.7	8.7	89.31	0.8	65.4	65.4	48.0	17.42	3.756
2,600.0	2,600.0	2,599.0	2,599.0	8.9	8.9	89.31	0.8	65.4	65.4	47.6	17.81	3.673
2,700.0	2,700.0	2,699.0	2,699.0	9.1	9.1	89.31	0.8	65.4	65.4	47.2	18.20	3.594
2,800.0	2,800.0	2,799.0	2,799.0	9.3	9.3	89.31	0.8	65.4	65.4	46.8	18.58	3.520
2,900.0	2,900.0	2,899.0	2,899.0	9.5	9.5	89.31	0.8	65.4	65.4	46.5	18.96	3.450
3,000.0	3,000.0	2,999.0	2,999.0	9.7	9.7	89.31	0.8	65.4	65.4	46.1	19.34	3.383
3,100.0	3,100.0	3,099.0	3,099.0	9.9	9.9	89.31	0.8	65.4	65.4	45.7	19.71	3.319
3,200.0	3,200.0	3,199.0	3,199.0	10.0	10.0	89.31	0.8	65.4	65.4	45.3	20.07	3.259
3,300.0	3,300.0	3,299.0	3,299.0	10.2	10.2	89.31	0.8	65.4	65.4	45.0	20.43	3.201
3,400.0	3,400.0	3,399.0	3,399.0	10.4	10.4	89.31	0.8	65.4	65.4	44.6	20.79	3.146
3,500.0	3,500.0	3,499.0	3,499.0	10.6	10.6	89.31	0.8	65.4	65.4	44.3	21.15	3.093
3,600.0	3,600.0	3,599.0	3,599.0	10.7	10.7	89.31	0.8	65.4	65.4	43.9	21.50	3.043
3,700.0	3,700.0	3,699.0	3,699.0	10.9	10.9	89.31	0.8	65.4	65.4	43.6	21.84	2.995
3,800.0	3,800.0	3,799.0	3,799.0	11.1	11.1	89.31	0.8	65.4	65.4	43.2	22.19	2.948
3,900.0	3,900.0	3,899.0	3,899.0	11.3	11.3	89.31	0.8	65.4	65.4	42.9	22.53	2.903
4,000.0	4,000.0	3,999.0	3,999.0	11.4	11.4	89.31	0.8	65.4	65.4	42.5	22.87	2.860
4,100.0	4,100.0	4,099.0	4,099.0	11.6	11.6	89.31	0.8	65.4	65.4	42.2	23.21	2.819
4,200.0	4,200.0	4,199.0	4,199.0	11.8	11.8	89.31	0.8	65.4	65.4	41.9	23.54	2.779
4,300.0	4,300.0	4,299.0	4,299.0	11.9	11.9	89.31	0.8	65.4	65.4	41.5	23.87	2.741
4,400.0	4,400.0	4,399.0	4,399.0	12.1	12.1	89.31	0.8	65.4	65.4	41.2	24.20	2.703
4,500.0	4,500.0	4,499.0	4,499.0	12.3	12.3	89.31	0.8	65.4	65.4	40.9	24.52	2.667
4,600.0	4,600.0	4,599.0	4,599.0	12.4	12.4	89.31	0.8	65.4	65.4	40.6	24.85	2.633
4,700.0	4,700.0	4,699.0	4,699.0	12.6	12.6	89.31	0.8	65.4	65.4	40.2	25.17	2.599
4,800.0	4,800.0	4,799.0	4,799.0	12.7	12.7	89.31	0.8	65.4	65.4	39.9	25.49	2.566
4,900.0	4,900.0	4,899.0	4,899.0	12.9	12.9	89.31	0.8	65.4	65.4	39.6	25.81	2.535
5,000.0	5,000.0	4,999.0	4,999.0	13.1	13.1	89.31	0.8	65.4	65.4	39.3	26.12	2.504
5,100.0	5,100.0	5,099.0	5,099.0	13.2	13.2	89.31	0.8	65.4	65.4	39.0	26.44	2.474

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	Vertical	Measured Depth	Vertical	Reference	Offset	Highside Toolface	+N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
5,200.0	5,200.0	5,199.0	5,199.0	13.4	13.4	89.31	0.8	65.4	65.4	38.7	26.75	2.445	CC, ES, SF	
5,300.0	5,300.0	5,299.0	5,299.0	13.5	13.5	89.31	0.8	65.4	65.4	38.4	27.06	2.417		
5,400.0	5,400.0	5,399.0	5,399.0	13.6	13.7	-168.34	0.8	65.4	66.3	38.9	27.32	2.425		
5,500.0	5,500.0	5,499.0	5,499.0	13.7	13.8	-168.06	-0.1	65.4	68.8	41.3	27.51	2.502		
5,600.0	5,599.9	5,598.9	5,598.9	13.9	13.8	-166.72	-2.7	65.4	73.0	45.4	27.68	2.639		
5,700.0	5,699.7	5,698.7	5,698.6	14.0	13.9	-164.83	-6.7	65.3	79.0	51.2	27.80	2.842		
5,800.0	5,799.4	5,798.4	5,798.2	14.2	13.9	-163.31	-10.7	65.2	85.9	57.9	28.00	3.068		
5,900.0	5,899.2	5,898.2	5,897.9	14.3	14.0	-162.01	-14.8	65.2	92.8	64.6	28.22	3.290		
6,000.0	5,998.9	5,997.9	5,997.5	14.5	14.2	-160.90	-18.9	65.1	99.8	71.4	28.45	3.509		
6,100.0	6,098.7	6,097.6	6,097.2	14.7	14.3	-159.93	-23.0	65.1	106.8	78.1	28.70	3.723		
6,200.0	6,198.5	6,197.4	6,196.8	14.9	14.4	-159.08	-27.1	65.0	113.9	84.9	28.96	3.933		
6,300.0	6,298.2	6,297.1	6,296.5	15.2	14.6	-158.33	-31.2	64.9	120.9	91.7	29.23	4.138		
6,400.0	6,398.0	6,396.9	6,396.2	15.4	14.8	-157.66	-35.3	64.9	128.0	98.5	29.52	4.337		
6,500.0	6,497.7	6,496.6	6,495.8	15.7	15.0	-157.07	-39.4	64.8	135.1	105.3	29.82	4.532		
6,600.0	6,597.5	6,596.3	6,595.5	15.9	15.1	-156.53	-43.5	64.7	142.2	112.1	30.13	4.721		
6,700.0	6,697.2	6,696.1	6,695.1	16.2	15.4	-156.04	-47.6	64.7	149.4	118.9	30.45	4.905		
6,800.0	6,797.0	6,795.8	6,794.8	16.5	15.6	-155.60	-51.7	64.6	156.5	125.7	30.78	5.084		
6,900.0	6,896.8	6,895.6	6,894.4	16.8	15.8	-155.20	-55.8	64.6	163.6	132.5	31.13	5.257		
7,000.0	6,996.5	6,995.3	6,994.1	17.1	16.0	-154.83	-59.9	64.5	170.8	139.3	31.48	5.425		
7,100.0	7,096.3	7,095.0	7,093.7	17.5	16.3	-154.49	-64.0	64.4	177.9	146.1	31.84	5.588		
7,200.0	7,196.0	7,194.8	7,193.4	17.8	16.5	-154.17	-68.1	64.4	185.1	152.9	32.22	5.746		
7,300.0	7,295.8	7,294.5	7,293.0	18.1	16.8	-153.88	-72.2	64.3	192.3	159.7	32.60	5.898		
7,400.0	7,395.5	7,394.2	7,392.7	18.5	17.1	-153.61	-76.3	64.3	199.4	166.4	32.99	6.046		
7,500.0	7,495.3	7,494.0	7,492.3	18.9	17.3	-153.36	-80.4	64.2	206.6	173.2	33.38	6.189		
7,600.0	7,595.0	7,593.7	7,592.0	19.2	17.6	-153.13	-84.5	64.1	213.8	180.0	33.79	6.327		
7,700.0	7,694.8	7,693.5	7,691.7	19.6	17.9	-152.91	-88.6	64.1	221.0	186.8	34.20	6.461		
7,800.0	7,794.6	7,793.2	7,791.3	20.0	18.2	-152.71	-92.7	64.0	228.1	193.5	34.62	6.590		
7,900.0	7,894.3	7,892.9	7,891.0	20.3	18.5	-152.51	-96.8	63.9	235.3	200.3	35.05	6.715		
8,000.0	7,994.1	7,992.7	7,990.6	20.7	18.8	-152.33	-100.9	63.9	242.5	207.0	35.48	6.836		
8,100.0	8,093.8	8,092.4	8,090.3	21.1	19.1	-152.16	-105.0	63.8	249.7	213.8	35.92	6.953		
8,200.0	8,193.6	8,192.2	8,189.9	21.5	19.5	-152.00	-109.1	63.8	256.9	220.5	36.36	7.065		
8,300.0	8,293.3	8,291.9	8,289.6	21.9	19.8	-151.85	-113.2	63.7	264.1	227.3	36.81	7.174		
8,400.0	8,393.1	8,391.6	8,389.2	22.3	20.1	-151.70	-117.3	63.6	271.3	234.0	37.27	7.280		
8,500.0	8,492.9	8,491.4	8,488.9	22.8	20.4	-151.57	-121.4	63.6	278.5	240.8	37.73	7.381		
8,600.0	8,592.6	8,591.1	8,588.5	23.2	20.8	-151.44	-125.5	63.5	285.7	247.5	38.20	7.480		
8,700.0	8,692.4	8,690.8	8,688.2	23.6	21.1	-151.31	-129.6	63.5	292.9	254.2	38.67	7.575		
8,800.0	8,792.1	8,790.6	8,787.9	24.0	21.5	-151.20	-133.7	63.4	300.1	261.0	39.15	7.666		
8,900.0	8,891.9	8,890.3	8,887.5	24.4	21.8	-151.08	-137.8	63.3	307.3	267.7	39.63	7.755		
9,000.0	8,991.6	8,990.1	8,987.2	24.9	22.2	-150.98	-141.9	63.3	314.5	274.4	40.11	7.841		
9,100.0	9,091.4	9,089.8	9,086.8	25.3	22.5	-150.88	-146.0	63.2	321.7	281.1	40.60	7.924		
9,200.0	9,191.1	9,189.5	9,186.5	25.8	22.9	-150.78	-150.1	63.1	328.9	287.8	41.10	8.004		
9,300.0	9,290.9	9,289.3	9,286.1	26.2	23.3	-150.68	-154.1	63.1	336.1	294.5	41.59	8.081		
9,400.0	9,390.7	9,389.0	9,385.8	26.6	23.6	-150.60	-158.2	63.0	343.3	301.3	42.10	8.156		
9,500.0	9,490.4	9,488.8	9,485.4	27.1	24.0	-150.51	-162.3	63.0	350.6	308.0	42.60	8.229		
9,600.0	9,590.2	9,588.5	9,585.1	27.5	24.4	-150.43	-166.4	62.9	357.8	314.7	43.11	8.299		
9,700.0	9,689.9	9,688.2	9,684.7	28.0	24.8	-150.35	-170.5	62.8	365.0	321.4	43.62	8.366		
9,800.0	9,789.7	9,788.0	9,784.4	28.4	25.1	-150.27	-174.6	62.8	372.2	328.1	44.14	8.432		
9,900.0	9,889.4	9,887.7	9,884.1	28.9	25.5	-150.20	-178.7	62.7	379.4	334.7	44.66	8.496		
10,000.0	9,989.2	9,987.4	9,983.7	29.3	25.9	-150.13	-182.8	62.7	386.6	341.4	45.18	8.557		
10,100.0	10,089.0	10,087.2	10,083.4	29.8	26.3	-150.06	-186.9	62.6	393.8	348.1	45.71	8.617		
10,200.0	10,188.7	10,186.9	10,183.0	30.3	26.7	-149.99	-191.0	62.5	401.0	354.8	46.23	8.674		
10,298.5	10,287.0	10,285.5	10,281.5	30.7	27.1	-149.94	-195.1	62.5	408.1	361.4	46.73	8.734		

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			
10,300.0	10,288.5	10,287.0	10,283.0	30.7	27.1	-150.03	-195.1	62.5	408.3	361.5	46.73	8.736			
10,325.0	10,313.3	10,312.4	10,308.4	30.8	27.1	-150.94	-196.0	62.5	410.7	363.8	46.87	8.763			
10,350.0	10,338.1	10,337.7	10,333.7	31.0	27.2	-151.29	-196.8	62.4	414.2	367.2	47.03	8.807			
10,375.0	10,362.5	10,362.7	10,358.7	31.2	27.3	-151.49	-197.5	62.4	418.8	371.6	47.21	8.872			
10,400.0	10,386.7	10,387.4	10,383.4	31.3	27.4	-151.64	-198.0	62.4	424.6	377.2	47.40	8.958			
10,425.0	10,410.5	10,411.7	10,407.7	31.5	27.5	-151.77	-198.5	62.4	431.5	383.9	47.60	9.065			
10,450.0	10,433.9	10,435.6	10,431.6	31.7	27.5	-151.87	-198.8	62.4	439.5	391.7	47.80	9.195			
10,475.0	10,456.8	10,459.0	10,454.9	31.9	27.6	-151.96	-199.0	62.4	448.5	400.5	48.00	9.344			
10,500.0	10,479.1	10,481.8	10,477.7	32.0	27.6	-152.03	-199.2	62.4	458.7	410.5	48.21	9.515			
10,525.0	10,500.9	10,503.9	10,499.9	32.2	27.6	-152.06	-199.2	62.4	470.0	421.5	48.43	9.705			
10,550.0	10,521.9	10,524.9	10,520.9	32.4	27.6	-152.04	-199.2	62.4	482.3	433.7	48.64	9.915			
10,575.0	10,542.2	10,545.3	10,541.2	32.6	27.7	-151.95	-199.2	62.4	495.7	446.8	48.86	10.145			
10,600.0	10,561.7	10,564.8	10,560.7	32.7	27.7	-151.78	-199.2	62.4	510.1	461.0	49.08	10.394			
10,625.0	10,580.4	10,583.4	10,579.4	32.9	27.7	-151.51	-199.2	62.4	525.5	476.2	49.29	10.662			
10,650.0	10,598.2	10,601.2	10,597.2	33.1	27.7	-151.14	-199.2	62.4	541.9	492.4	49.50	10.947			
10,675.0	10,615.0	10,618.0	10,614.0	33.2	27.7	-150.63	-199.2	62.4	559.2	509.5	49.70	11.251			
10,700.4	10,631.1	10,634.1	10,630.1	33.4	27.7	-149.95	-199.2	62.4	577.7	527.8	49.90	11.577			
10,725.0	10,646.2	10,649.2	10,645.2	33.5	27.7	-156.16	-199.2	62.4	596.2	546.1	50.08	11.904			
10,750.0	10,661.6	10,664.7	10,660.6	33.6	27.7	-162.55	-199.2	62.4	615.4	565.1	50.25	12.246			
10,775.0	10,677.1	10,681.9	10,677.9	33.7	27.7	-168.97	-199.2	62.4	634.8	584.4	50.42	12.591			
10,800.0	10,692.5	10,705.6	10,701.5	33.9	27.7	-175.46	-198.3	62.3	654.2	603.7	50.58	12.934			
10,825.0	10,707.9	10,729.8	10,725.6	34.0	27.6	178.21	-196.3	62.1	673.6	622.9	50.75	13.273			
10,850.0	10,723.1	10,754.6	10,750.2	34.1	27.5	172.09	-192.9	61.7	692.8	641.9	50.91	13.608			
10,875.0	10,738.3	10,780.2	10,775.3	34.2	27.4	166.22	-188.1	61.1	711.9	660.8	51.08	13.937			
10,900.0	10,753.2	10,806.6	10,801.0	34.3	27.3	160.62	-181.7	60.3	730.6	679.4	51.24	14.259			
10,925.0	10,767.9	10,834.2	10,827.3	34.5	27.2	155.33	-173.6	59.4	749.0	697.6	51.40	14.571			
10,950.0	10,782.4	10,862.8	10,854.1	34.6	27.1	150.34	-163.6	58.2	767.0	715.4	51.58	14.871			
10,975.0	10,796.5	10,892.8	10,881.5	34.7	27.0	145.66	-151.4	56.7	784.5	732.7	51.76	15.158			
11,000.0	10,810.3	10,924.3	10,909.3	34.8	26.8	141.30	-136.8	55.0	801.5	749.5	51.95	15.427			
11,025.0	10,823.8	10,957.3	10,937.4	35.0	26.7	137.23	-119.6	52.9	817.8	765.6	52.16	15.677			
11,050.0	10,836.8	10,991.9	10,965.5	35.1	26.6	133.45	-99.5	50.6	833.5	781.1	52.40	15.905			
11,075.0	10,849.3	11,028.3	10,993.3	35.2	26.4	129.93	-76.3	47.8	848.3	795.7	52.67	16.106			
11,100.0	10,861.4	11,066.3	11,020.4	35.4	26.3	126.66	-49.8	44.6	862.3	809.4	52.97	16.279			
11,125.0	10,872.9	11,106.0	11,046.4	35.5	26.2	123.60	-20.0	41.1	875.4	822.1	53.32	16.419			
11,150.0	10,883.9	11,147.2	11,070.6	35.6	26.0	120.75	13.1	37.2	887.5	833.8	53.71	16.526			
11,175.0	10,894.3	11,189.7	11,092.4	35.8	25.9	118.09	49.2	32.9	898.6	844.4	54.14	16.596			
11,200.0	10,904.1	11,233.1	11,111.3	36.0	25.8	115.58	88.0	28.2	908.5	853.9	54.62	16.632			
11,225.0	10,913.2	11,277.2	11,126.8	36.1	25.7	113.23	129.0	23.4	917.2	862.1	55.14	16.634			
11,250.0	10,921.7	11,321.4	11,138.5	36.3	25.7	111.01	171.3	18.3	924.8	869.1	55.69	16.605			
11,275.0	10,929.5	11,365.3	11,146.1	36.5	25.7	108.93	214.3	13.2	931.1	874.8	56.27	16.548			
11,300.0	10,936.6	11,408.6	11,149.7	36.7	25.7	106.99	257.0	8.1	936.2	879.3	56.84	16.470			
11,325.0	10,942.9	11,431.8	11,150.0	36.8	25.7	105.54	280.1	5.4	940.2	883.1	57.10	16.466			
11,350.0	10,948.6	11,456.3	11,150.0	37.0	25.7	104.27	304.5	2.6	943.4	886.0	57.41	16.434			
11,375.0	10,953.4	11,474.7	11,150.0	37.2	25.7	103.30	322.8	0.7	946.0	888.4	57.61	16.420			
11,400.0	10,957.5	11,500.0	11,150.0	37.4	25.7	102.44	347.9	-1.8	948.0	890.1	57.95	16.359			
11,425.0	10,960.8	11,500.0	11,150.0	37.6	25.7	102.00	347.9	-1.8	949.4	891.6	57.83	16.416			
11,450.0	10,963.3	11,530.8	11,149.9	37.8	25.7	101.49	378.6	-4.6	950.0	891.6	58.38	16.272			
11,475.0	10,965.0	11,549.7	11,149.9	37.9	25.7	101.25	397.4	-6.1	949.9	891.2	58.68	16.189			
11,500.0	10,965.9	11,568.6	11,149.8	38.1	25.7	101.20	416.3	-7.5	949.1	890.2	58.98	16.092			
11,515.0	10,966.0	11,579.9	11,149.8	38.2	25.7	101.26	427.6	-8.3	948.4	889.2	59.17	16.028			
11,600.0	10,966.0	11,644.3	11,149.6	38.8	25.8	101.28	491.8	-11.9	944.1	883.8	60.32	15.652			
11,700.0	10,966.0	11,720.1	11,149.2	39.6	25.8	101.28	567.6	-14.2	941.6	879.8	61.73	15.254			

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				Semi Major Axis			Offset Wellbore Centre			Rule Assigned: Distance			Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning				
11,808.9	10,966.0	11,817.8	11,148.6	40.5	26.0	101.25	665.3	-15.0	941.2	877.5	63.65	14.787					
11,900.0	10,967.4	11,908.9	11,148.0	41.3	26.2	101.12	756.3	-15.5	940.8	875.2	65.61	14.339					
11,940.0	10,969.0	11,948.8	11,147.7	41.7	26.4	101.01	796.3	-15.7	940.5	873.9	66.51	14.140					
12,000.0	10,971.1	12,008.8	11,147.4	42.2	26.9	100.86	856.2	-16.1	940.0	872.1	67.89	13.845					
12,081.2	10,972.0	12,089.9	11,146.9	43.1	27.9	100.79	937.4	-16.5	939.8	869.9	69.89	13.446					
12,100.0	10,971.9	12,108.7	11,146.7	43.3	28.1	100.79	956.2	-16.6	939.8	869.5	70.37	13.356					
12,200.0	10,969.1	12,208.7	11,146.1	44.3	29.6	100.90	1,056.2	-17.2	940.3	867.3	73.01	12.879					
12,300.0	10,962.9	12,308.6	11,145.5	45.5	31.1	101.22	1,156.0	-17.7	941.4	865.6	75.79	12.421					
12,400.0	10,953.1	12,408.1	11,144.8	46.6	32.8	101.72	1,255.6	-18.3	943.2	864.5	78.70	11.985					
12,414.7	10,951.4	12,422.7	11,144.7	46.8	33.0	101.81	1,270.2	-18.4	943.6	864.4	79.13	11.924					
12,500.0	10,941.2	12,507.5	11,144.2	47.9	34.4	102.38	1,355.0	-18.9	945.6	863.9	81.69	11.575					
12,600.0	10,929.3	12,606.9	11,143.6	49.1	36.1	103.04	1,454.3	-19.4	948.1	863.4	84.76	11.187					
12,660.7	10,922.0	12,667.1	11,143.2	49.9	37.2	103.45	1,514.6	-19.8	949.7	863.1	86.64	10.961					
12,700.0	10,917.6	12,706.2	11,142.9	50.4	37.9	103.71	1,553.7	-20.0	950.7	862.8	87.87	10.819					
12,800.0	10,908.7	12,805.9	11,142.3	51.8	39.7	104.23	1,653.4	-20.5	952.7	861.7	91.03	10.466					
12,900.0	10,903.3	12,905.8	11,141.7	53.2	41.5	104.53	1,753.2	-21.1	953.9	859.7	94.24	10.122					
13,005.0	10,901.4	13,010.7	11,141.0	54.7	43.4	104.60	1,858.2	-21.7	954.2	856.6	97.64	9.773					
13,100.0	10,901.5	13,105.8	11,140.4	56.0	45.1	104.57	1,953.2	-22.2	954.1	853.3	100.75	9.469					
13,200.0	10,901.5	13,205.8	11,139.8	57.5	47.0	104.53	2,053.2	-22.8	953.9	849.9	104.07	9.166					
13,300.0	10,901.5	13,305.8	11,139.1	59.0	48.8	104.49	2,153.2	-23.4	953.8	846.3	107.43	8.878					
13,400.0	10,901.5	13,405.8	11,138.5	60.5	50.7	104.45	2,253.2	-23.9	953.6	842.8	110.82	8.605					
13,500.0	10,901.6	13,505.8	11,137.9	62.1	52.6	104.41	2,353.2	-24.5	953.5	839.2	114.25	8.345					
13,600.0	10,901.6	13,605.7	11,137.2	63.6	54.5	104.37	2,453.2	-25.1	953.3	835.6	117.71	8.099					
13,700.0	10,901.6	13,705.7	11,136.6	65.3	56.4	104.34	2,553.2	-25.6	953.1	831.9	121.20	7.864					
13,800.0	10,901.6	13,805.7	11,136.0	66.9	58.3	104.30	2,653.2	-26.2	953.0	828.3	124.72	7.641					
13,900.0	10,901.7	13,905.7	11,135.3	68.5	60.2	104.26	2,753.2	-26.7	952.8	824.6	128.26	7.429					
14,000.0	10,901.7	14,005.7	11,134.7	70.2	62.1	104.22	2,853.2	-27.3	952.7	820.9	131.82	7.227					
14,100.0	10,901.7	14,105.7	11,134.1	71.9	64.1	104.18	2,953.2	-27.9	952.5	817.1	135.41	7.034					
14,200.0	10,901.8	14,205.7	11,133.4	73.5	66.0	104.14	3,053.1	-28.4	952.4	813.4	139.01	6.851					
14,300.0	10,901.8	14,305.7	11,132.8	75.3	68.0	104.10	3,153.1	-29.0	952.2	809.6	142.64	6.676					
14,400.0	10,901.8	14,405.7	11,132.2	77.0	69.9	104.06	3,253.1	-29.6	952.1	805.8	146.28	6.509					
14,500.0	10,901.8	14,505.7	11,131.5	78.7	71.8	104.03	3,353.1	-30.1	951.9	802.0	149.93	6.349					
14,600.0	10,901.9	14,605.7	11,130.9	80.5	73.8	103.99	3,453.1	-30.7	951.8	798.2	153.61	6.196					
14,700.0	10,901.9	14,705.7	11,130.3	82.2	75.8	103.95	3,553.1	-31.3	951.6	794.3	157.29	6.050					
14,800.0	10,901.9	14,805.7	11,129.6	84.0	77.7	103.91	3,653.1	-31.8	951.5	790.5	160.99	5.910					
14,900.0	10,901.9	14,905.7	11,129.0	85.8	79.7	103.87	3,753.1	-32.4	951.3	786.6	164.70	5.776					
15,000.0	10,902.0	15,006.5	11,128.0	87.6	81.6	103.81	3,853.9	-32.9	951.1	782.6	168.45	5.646					
15,101.5	10,902.0	15,108.0	11,127.0	89.4	83.6	103.75	3,955.4	-33.5	950.9	778.6	172.25	5.520					
15,194.0	10,903.5	15,200.4	11,126.1	91.1	85.5	103.60	4,047.8	-34.0	950.3	774.6	175.72	5.408					
15,200.0	10,903.7	15,206.5	11,126.1	91.2	85.6	103.58	4,053.8	-34.1	950.2	774.3	175.95	5.401					
15,300.0	10,907.0	15,306.4	11,125.1	93.0	87.6	103.33	4,153.7	-34.6	949.3	769.5	179.73	5.282					
15,400.0	10,910.2	15,406.3	11,124.1	94.8	89.5	103.08	4,253.6	-35.2	948.3	764.8	183.53	5.167					
15,500.0	10,913.5	15,506.2	11,123.1	96.7	91.5	102.83	4,353.5	-35.7	947.4	760.0	187.34	5.057					
15,600.0	10,916.7	15,606.1	11,122.1	98.5	93.5	102.58	4,453.4	-36.3	946.5	755.3	191.16	4.951					
15,700.0	10,920.0	15,706.0	11,121.1	100.4	95.4	102.33	4,553.3	-36.9	945.5	750.6	194.99	4.849					
15,800.0	10,923.2	15,805.9	11,120.1	102.2	97.4	102.08	4,653.2	-37.4	944.7	745.8	198.83	4.751					
15,900.0	10,926.5	15,905.8	11,119.1	104.1	99.4	101.83	4,753.1	-38.0	943.8	741.1	202.67	4.657					
16,000.0	10,929.7	16,005.7	11,118.1	105.9	101.4	101.58	4,853.0	-38.5	942.9	736.4	206.53	4.566					
16,100.0	10,933.0	16,105.6	11,117.1	107.8	103.4	101.33	4,953.0	-39.1	942.1	731.7	210.40	4.478					
16,131.1	10,934.0	16,136.7	11,116.8	108.4	104.0	101.25	4,984.0	-39.3	941.9	730.3	211.60	4.451					
16,200.0	10,935.4	16,205.6	11,116.2	109.7	105.4	101.13	5,052.9	-39.7	941.5	727.2	214.26	4.394					
16,252.4	10,935.4	16,258.0	11,115.6	110.7	106.4	101.10	5,105.3	-40.0	941.4	725.1	216.28	4.353					

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		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)			
16,270.2	10,935.1	16,275.8	11,115.5	111.0	106.7	101.11	5,123.1	-40.1	941.4	724.4	216.96	4.339	
16,300.0	10,934.7	16,305.6	11,115.2	111.5	107.3	101.12	5,152.9	-40.2	941.4	723.3	218.10	4.316	
16,400.0	10,933.1	16,405.6	11,114.2	113.4	109.3	101.15	5,252.9	-40.8	941.5	719.6	221.94	4.242	
16,500.0	10,931.5	16,505.6	11,113.2	115.3	111.3	101.19	5,352.9	-41.4	941.7	715.9	225.78	4.171	
16,600.0	10,929.9	16,605.6	11,112.2	117.2	113.3	101.23	5,452.8	-41.9	941.8	712.1	229.62	4.101	
16,700.0	10,928.3	16,705.6	11,111.2	119.1	115.3	101.26	5,552.8	-42.5	941.9	708.4	233.47	4.034	
16,800.0	10,926.7	16,805.6	11,110.2	121.0	117.3	101.30	5,652.8	-43.0	942.0	704.7	237.32	3.969	
16,900.0	10,925.0	16,905.6	11,109.2	122.9	119.3	101.34	5,752.8	-43.6	942.1	701.0	241.18	3.906	
17,000.0	10,923.4	17,005.6	11,108.2	124.9	121.3	101.37	5,852.8	-44.2	942.2	697.2	245.03	3.845	
17,100.0	10,921.8	17,105.6	11,107.2	126.8	123.3	101.41	5,952.8	-44.7	942.4	693.5	248.89	3.786	
17,200.0	10,920.2	17,205.6	11,106.3	128.7	125.3	101.45	6,052.8	-45.3	942.5	689.7	252.76	3.729	
17,300.0	10,918.6	17,305.6	11,105.3	130.6	127.3	101.48	6,152.8	-45.8	942.6	686.0	256.62	3.673	
17,400.0	10,917.0	17,405.6	11,104.3	132.5	129.3	101.52	6,252.8	-46.4	942.7	682.2	260.49	3.619	
17,500.0	10,915.4	17,505.6	11,103.3	134.5	131.2	101.55	6,352.8	-47.0	942.9	678.5	264.36	3.567	
17,600.0	10,913.8	17,605.6	11,102.3	136.4	133.2	101.59	6,452.8	-47.5	943.0	674.8	268.23	3.516	
17,700.0	10,912.2	17,705.6	11,101.3	138.3	135.2	101.63	6,552.8	-48.1	943.1	671.0	272.10	3.466	
17,800.0	10,910.6	17,805.6	11,100.3	140.2	137.2	101.66	6,652.7	-48.6	943.2	667.3	275.97	3.418	
17,900.0	10,909.0	17,836.6	11,100.0	142.2	137.9	101.68	6,683.8	-48.8	945.9	669.6	276.26	3.424	
18,000.0	10,907.4	17,836.6	11,100.0	144.1	137.9	101.68	6,683.8	-48.8	958.5	685.9	272.54	3.517	
18,100.0	10,905.8	17,836.6	11,100.0	146.1	137.9	101.68	6,683.8	-48.8	981.2	714.9	266.30	3.685	

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		Highside		Offset Wellbore Centre		Distance		Rule Assigned:	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
0.0	0.0	0.0	0.0	0.0	0.0	89.42	1.0	99.0	99.1			
100.0	100.0	99.0	99.0	0.5	0.5	89.42	1.0	99.0	99.0	98.0	1.06	93.883
200.0	200.0	199.0	199.0	1.7	1.7	89.42	1.0	99.0	99.0	95.6	3.41	29.031
300.0	300.0	299.0	299.0	2.4	2.4	89.42	1.0	99.0	99.0	94.2	4.82	20.567
400.0	400.0	399.0	399.0	3.0	2.9	89.42	1.0	99.0	99.0	93.1	5.90	16.780
500.0	500.0	499.0	499.0	3.4	3.4	89.42	1.0	99.0	99.0	92.2	6.83	14.511
600.0	600.0	599.0	599.0	3.8	3.8	89.42	1.0	99.0	99.0	91.4	7.64	12.956
700.0	700.0	699.0	699.0	4.2	4.2	89.42	1.0	99.0	99.0	90.7	8.39	11.805
800.0	800.0	799.0	799.0	4.5	4.5	89.42	1.0	99.0	99.0	90.0	9.08	10.908
900.0	900.0	899.0	899.0	4.9	4.9	89.42	1.0	99.0	99.0	89.3	9.73	10.183
1,000.0	1,000.0	999.0	999.0	5.2	5.2	89.42	1.0	99.0	99.0	88.7	10.34	9.581
1,100.0	1,100.0	1,099.0	1,099.0	5.5	5.5	89.42	1.0	99.0	99.0	88.1	10.92	9.070
1,200.0	1,200.0	1,199.0	1,199.0	5.7	5.7	89.42	1.0	99.0	99.0	87.6	11.48	8.630
1,300.0	1,300.0	1,299.0	1,299.0	6.0	6.0	89.42	1.0	99.0	99.0	87.0	12.01	8.245
1,400.0	1,400.0	1,399.0	1,399.0	6.3	6.3	89.42	1.0	99.0	99.0	86.5	12.53	7.905
1,500.0	1,500.0	1,499.0	1,499.0	6.5	6.5	89.42	1.0	99.0	99.0	86.0	13.03	7.602
1,600.0	1,600.0	1,599.0	1,599.0	6.8	6.8	89.42	1.0	99.0	99.0	85.5	13.51	7.329
1,700.0	1,700.0	1,699.0	1,699.0	7.0	7.0	89.42	1.0	99.0	99.0	85.1	13.99	7.081
1,800.0	1,800.0	1,799.0	1,799.0	7.2	7.2	89.42	1.0	99.0	99.0	84.6	14.45	6.856
1,900.0	1,900.0	1,899.0	1,899.0	7.4	7.4	89.42	1.0	99.0	99.0	84.2	14.90	6.649
2,000.0	2,000.0	1,999.0	1,999.0	7.7	7.7	89.42	1.0	99.0	99.0	83.7	15.34	6.458
2,100.0	2,100.0	2,099.0	2,099.0	7.9	7.9	89.42	1.0	99.0	99.0	83.3	15.77	6.282
2,200.0	2,200.0	2,199.0	2,199.0	8.1	8.1	89.42	1.0	99.0	99.0	82.9	16.19	6.118
2,300.0	2,300.0	2,299.0	2,299.0	8.3	8.3	89.42	1.0	99.0	99.0	82.4	16.61	5.965
2,400.0	2,400.0	2,399.0	2,399.0	8.5	8.5	89.42	1.0	99.0	99.0	82.0	17.01	5.822
2,500.0	2,500.0	2,499.0	2,499.0	8.7	8.7	89.42	1.0	99.0	99.0	81.6	17.42	5.687
2,600.0	2,600.0	2,599.0	2,599.0	8.9	8.9	89.42	1.0	99.0	99.0	81.2	17.81	5.561
2,700.0	2,700.0	2,699.0	2,699.0	9.1	9.1	89.42	1.0	99.0	99.0	80.8	18.20	5.442
2,800.0	2,800.0	2,799.0	2,799.0	9.3	9.3	89.42	1.0	99.0	99.0	80.5	18.58	5.330
2,900.0	2,900.0	2,899.0	2,899.0	9.5	9.5	89.42	1.0	99.0	99.0	80.1	18.96	5.223
3,000.0	3,000.0	2,999.0	2,999.0	9.7	9.7	89.42	1.0	99.0	99.0	79.7	19.34	5.122
3,100.0	3,100.0	3,099.0	3,099.0	9.9	9.9	89.42	1.0	99.0	99.0	79.3	19.71	5.026
3,200.0	3,200.0	3,199.0	3,199.0	10.0	10.0	89.42	1.0	99.0	99.0	79.0	20.07	4.934
3,300.0	3,300.0	3,299.0	3,299.0	10.2	10.2	89.42	1.0	99.0	99.0	78.6	20.43	4.847
3,400.0	3,400.0	3,399.0	3,399.0	10.4	10.4	89.42	1.0	99.0	99.0	78.3	20.79	4.764
3,500.0	3,500.0	3,499.0	3,499.0	10.6	10.6	89.42	1.0	99.0	99.0	77.9	21.15	4.684
3,600.0	3,600.0	3,599.0	3,599.0	10.7	10.7	89.42	1.0	99.0	99.0	77.6	21.50	4.607
3,700.0	3,700.0	3,699.0	3,699.0	10.9	10.9	89.42	1.0	99.0	99.0	77.2	21.84	4.534
3,800.0	3,800.0	3,799.0	3,799.0	11.1	11.1	89.42	1.0	99.0	99.0	76.9	22.19	4.464
3,900.0	3,900.0	3,899.0	3,899.0	11.3	11.3	89.42	1.0	99.0	99.0	76.5	22.53	4.396
4,000.0	4,000.0	3,999.0	3,999.0	11.4	11.4	89.42	1.0	99.0	99.0	76.2	22.87	4.331
4,100.0	4,100.0	4,099.0	4,099.0	11.6	11.6	89.42	1.0	99.0	99.0	75.8	23.21	4.268
4,200.0	4,200.0	4,199.0	4,199.0	11.8	11.8	89.42	1.0	99.0	99.0	75.5	23.54	4.208
4,300.0	4,300.0	4,299.0	4,299.0	11.9	11.9	89.42	1.0	99.0	99.0	75.2	23.87	4.150
4,400.0	4,400.0	4,399.0	4,399.0	12.1	12.1	89.42	1.0	99.0	99.0	74.8	24.20	4.093
4,500.0	4,500.0	4,499.0	4,499.0	12.3	12.3	89.42	1.0	99.0	99.0	74.5	24.52	4.039
4,600.0	4,600.0	4,599.0	4,599.0	12.4	12.4	89.42	1.0	99.0	99.0	74.2	24.85	3.986
4,700.0	4,700.0	4,699.0	4,699.0	12.6	12.6	89.42	1.0	99.0	99.0	73.9	25.17	3.935
4,800.0	4,800.0	4,799.0	4,799.0	12.7	12.7	89.42	1.0	99.0	99.0	73.6	25.49	3.886
4,900.0	4,900.0	4,899.0	4,899.0	12.9	12.9	89.42	1.0	99.0	99.0	73.2	25.81	3.838
5,000.0	5,000.0	4,999.0	4,999.0	13.1	13.1	89.42	1.0	99.0	99.0	72.9	26.12	3.792
5,100.0	5,100.0	5,099.0	5,099.0	13.2	13.2	89.42	1.0	99.0	99.0	72.6	26.44	3.746

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				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	5,199.0	5,199.0	13.4	13.4	89.42	1.0	99.0	99.0	72.3	26.75	3.703	
5,300.0	5,300.0	5,299.0	5,299.0	13.5	13.5	89.42	1.0	99.0	99.0	72.0	27.06	3.660 CC, ES	
5,400.0	5,400.0	5,399.0	5,399.0	13.6	13.7	-168.18	1.0	99.0	99.9	72.6	27.32	3.656 SF	
5,500.0	5,500.0	5,499.0	5,499.0	13.7	13.8	-168.47	1.0	99.0	102.5	74.9	27.58	3.715	
5,600.0	5,599.9	5,598.9	5,598.9	13.9	14.0	-168.93	1.0	99.0	106.7	78.9	27.85	3.832	
5,700.0	5,699.7	5,698.7	5,698.7	14.0	14.1	-169.09	0.1	99.0	112.7	84.6	28.07	4.016	
5,800.0	5,799.4	5,798.5	5,798.5	14.2	14.1	-168.48	-2.4	99.0	119.5	91.2	28.27	4.228	
5,900.0	5,899.2	5,898.3	5,898.2	14.3	14.2	-167.39	-6.2	99.0	126.3	97.9	28.44	4.441	
6,000.0	5,998.9	5,998.0	5,997.8	14.5	14.2	-166.40	-10.0	99.0	133.1	104.5	28.66	4.644	
6,100.0	6,098.7	6,097.8	6,097.5	14.7	14.3	-165.51	-13.8	99.0	140.0	111.1	28.91	4.842	
6,200.0	6,198.5	6,197.5	6,197.2	14.9	14.5	-164.70	-17.6	99.0	146.9	117.7	29.17	5.035	
6,300.0	6,298.2	6,297.3	6,296.9	15.2	14.6	-163.97	-21.5	99.0	153.8	124.4	29.45	5.224	
6,400.0	6,398.0	6,397.0	6,396.5	15.4	14.7	-163.29	-25.3	99.0	160.8	131.0	29.73	5.407	
6,500.0	6,497.7	6,496.7	6,496.2	15.7	14.9	-162.68	-29.1	99.0	167.7	137.7	30.03	5.585	
6,600.0	6,597.5	6,596.5	6,595.9	15.9	15.0	-162.11	-32.9	99.0	174.7	144.4	30.34	5.758	
6,700.0	6,697.2	6,696.2	6,695.5	16.2	15.2	-161.58	-36.7	99.0	181.7	151.1	30.66	5.926	
6,800.0	6,797.0	6,796.0	6,795.2	16.5	15.4	-161.10	-40.5	99.0	188.7	157.7	31.00	6.089	
6,900.0	6,896.8	6,895.7	6,894.9	16.8	15.6	-160.65	-44.3	99.0	195.8	164.4	31.34	6.246	
7,000.0	6,996.5	6,995.4	6,994.5	17.1	15.8	-160.23	-48.1	99.0	202.8	171.1	31.69	6.399	
7,100.0	7,096.3	7,095.2	7,094.2	17.5	16.0	-159.84	-51.9	99.0	209.9	177.8	32.06	6.547	
7,200.0	7,196.0	7,194.9	7,193.9	17.8	16.2	-159.47	-55.8	99.0	216.9	184.5	32.43	6.689	
7,300.0	7,295.8	7,294.7	7,293.5	18.1	16.5	-159.13	-59.6	99.0	224.0	191.2	32.81	6.827	
7,400.0	7,395.5	7,394.4	7,393.2	18.5	16.7	-158.81	-63.4	99.0	231.1	197.9	33.20	6.961	
7,500.0	7,495.3	7,494.2	7,492.9	18.9	17.0	-158.51	-67.2	99.0	238.1	204.6	33.59	7.089	
7,600.0	7,595.0	7,593.9	7,592.5	19.2	17.2	-158.22	-71.0	99.0	245.2	211.2	34.00	7.214	
7,700.0	7,694.8	7,693.6	7,692.2	19.6	17.5	-157.96	-74.8	99.0	252.3	217.9	34.41	7.334	
7,800.0	7,794.6	7,793.4	7,791.9	20.0	17.8	-157.70	-78.6	99.0	259.4	224.6	34.82	7.450	
7,900.0	7,894.3	7,893.1	7,891.5	20.3	18.0	-157.46	-82.4	99.0	266.5	231.3	35.25	7.562	
8,000.0	7,994.1	7,992.9	7,991.2	20.7	18.3	-157.23	-86.2	99.0	273.6	238.0	35.68	7.670	
8,100.0	8,093.8	8,092.6	8,090.9	21.1	18.6	-157.02	-90.0	99.0	280.8	244.6	36.11	7.774	
8,200.0	8,193.6	8,192.3	8,190.6	21.5	18.9	-156.81	-93.9	99.0	287.9	251.3	36.56	7.875	
8,300.0	8,293.3	8,292.1	8,290.2	21.9	19.2	-156.61	-97.7	99.0	295.0	258.0	37.00	7.972	
8,400.0	8,393.1	8,391.8	8,389.9	22.3	19.5	-156.43	-101.5	99.0	302.1	264.7	37.46	8.065	
8,500.0	8,492.9	8,491.6	8,489.6	22.8	19.8	-156.25	-105.3	99.0	309.2	271.3	37.92	8.156	
8,600.0	8,592.6	8,591.3	8,589.2	23.2	20.2	-156.08	-109.1	99.0	316.4	278.0	38.38	8.243	
8,700.0	8,692.4	8,691.0	8,688.9	23.6	20.5	-155.92	-112.9	99.0	323.5	284.7	38.85	8.327	
8,800.0	8,792.1	8,790.8	8,788.6	24.0	20.8	-155.76	-116.7	99.0	330.6	291.3	39.32	8.409	
8,900.0	8,891.9	8,890.5	8,888.2	24.4	21.1	-155.61	-120.5	99.0	337.8	298.0	39.80	8.487	
9,000.0	8,991.6	8,990.3	8,987.9	24.9	21.5	-155.47	-124.3	99.0	344.9	304.6	40.28	8.563	
9,100.0	9,091.4	9,090.0	9,087.6	25.3	21.8	-155.33	-128.2	99.0	352.1	311.3	40.76	8.636	
9,200.0	9,191.1	9,189.8	9,187.2	25.8	22.2	-155.20	-132.0	99.0	359.2	317.9	41.25	8.707	
9,300.0	9,290.9	9,289.5	9,286.9	26.2	22.5	-155.07	-135.8	99.0	366.3	324.6	41.75	8.775	
9,400.0	9,390.7	9,389.2	9,386.6	26.6	22.9	-154.95	-139.6	99.0	373.5	331.2	42.24	8.841	
9,500.0	9,490.4	9,489.0	9,486.2	27.1	23.2	-154.84	-143.4	99.0	380.6	337.9	42.75	8.905	
9,600.0	9,590.2	9,588.7	9,585.9	27.5	23.6	-154.72	-147.2	99.0	387.8	344.5	43.25	8.966	
9,700.0	9,689.9	9,688.5	9,685.6	28.0	23.9	-154.61	-151.0	99.0	394.9	351.2	43.76	9.026	
9,800.0	9,789.7	9,788.2	9,785.3	28.4	24.3	-154.51	-154.8	99.0	402.1	357.8	44.27	9.083	
9,900.0	9,889.4	9,887.9	9,884.9	28.9	24.7	-154.41	-158.6	99.0	409.2	364.5	44.78	9.139	
10,000.0	9,989.2	9,987.7	9,984.6	29.3	25.0	-154.31	-162.5	99.0	416.4	371.1	45.30	9.192	
10,100.0	10,089.0	10,087.4	10,084.3	29.8	25.4	-154.22	-166.3	99.0	423.6	377.7	45.82	9.244	
10,200.0	10,188.7	10,187.2	10,183.9	30.3	25.8	-154.13	-170.1	99.0	430.7	384.4	46.34	9.294	
10,298.5	10,287.0	10,285.4	10,282.1	30.7	26.1	-154.04	-173.8	99.0	437.8	390.9	46.86	9.342	

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		Semi Major Axis		Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
10,300.0	10,288.5	10,286.9	10,283.6	30.7	26.2	-154.14	-173.9	99.0	437.9	391.0	46.86	9.343			
10,325.0	10,313.3	10,311.8	10,308.4	30.8	26.2	-155.02	-174.8	99.0	440.3	393.3	47.00	9.368			
10,350.0	10,338.1	10,336.5	10,333.2	31.0	26.3	-155.33	-175.8	99.0	444.0	396.8	47.17	9.412			
10,375.0	10,362.5	10,361.0	10,357.6	31.2	26.4	-155.46	-176.7	99.0	448.8	401.5	47.36	9.477			
10,400.0	10,386.7	10,385.2	10,381.8	31.3	26.5	-155.51	-177.6	99.0	454.8	407.3	47.55	9.565			
10,425.0	10,410.5	10,409.1	10,405.7	31.5	26.6	-155.52	-178.6	99.0	462.0	414.2	47.75	9.675			
10,450.0	10,433.9	10,432.5	10,429.1	31.7	26.7	-155.49	-179.4	99.0	470.3	422.3	47.96	9.807			
10,475.0	10,456.8	10,455.4	10,452.0	31.9	26.8	-155.43	-180.3	99.0	479.8	431.6	48.17	9.960			
10,500.0	10,479.1	10,477.8	10,474.4	32.0	26.9	-155.33	-181.2	99.0	490.3	441.9	48.38	10.134			
10,525.0	10,500.9	10,499.6	10,496.2	32.2	27.0	-155.20	-182.0	99.0	502.0	453.4	48.60	10.329			
10,550.0	10,521.9	10,520.7	10,517.3	32.4	27.0	-155.01	-182.8	99.0	514.7	465.9	48.82	10.544			
10,575.0	10,542.2	10,541.1	10,537.6	32.6	27.1	-154.77	-183.6	99.0	528.5	479.5	49.04	10.778			
10,600.0	10,561.7	10,560.7	10,557.2	32.7	27.2	-154.45	-184.3	99.0	543.3	494.0	49.25	11.031			
10,625.0	10,580.4	10,579.5	10,576.0	32.9	27.3	-154.05	-185.1	99.0	559.1	509.6	49.46	11.303			
10,650.0	10,598.2	10,597.4	10,593.8	33.1	27.3	-153.55	-185.7	99.0	575.8	526.1	49.67	11.592			
10,675.0	10,615.0	10,614.3	10,610.8	33.2	27.4	-152.92	-186.4	99.0	593.4	543.5	49.87	11.898			
10,700.4	10,631.1	10,630.6	10,627.0	33.4	27.5	-152.14	-187.0	99.0	612.2	562.1	50.07	12.226			
10,725.0	10,646.2	10,645.7	10,642.2	33.5	27.5	-158.32	-187.6	99.0	630.9	580.6	50.25	12.556			
10,750.0	10,661.6	10,661.2	10,657.6	33.6	27.6	-164.66	-188.2	99.0	650.2	599.8	50.42	12.898			
10,775.0	10,677.1	10,676.6	10,673.0	33.7	27.6	-170.98	-188.8	99.0	669.8	619.2	50.57	13.244			
10,800.0	10,692.5	10,692.0	10,688.4	33.9	27.7	-177.22	-189.4	99.0	689.5	638.8	50.72	13.594			
10,825.0	10,707.9	10,707.3	10,703.7	34.0	27.8	176.66	-189.9	99.0	709.3	658.4	50.86	13.946			
10,850.0	10,723.1	10,722.4	10,718.8	34.1	27.8	170.71	-190.5	99.0	729.1	678.1	50.99	14.299			
10,875.0	10,738.3	10,737.4	10,733.7	34.2	27.9	164.95	-191.1	99.0	748.9	697.8	51.11	14.653			
10,900.0	10,753.2	10,752.0	10,748.4	34.3	27.9	159.43	-191.7	99.0	768.6	717.4	51.22	15.007			
10,925.0	10,767.9	10,766.5	10,762.8	34.5	28.0	154.14	-192.2	99.0	788.3	737.0	51.32	15.361			
10,950.0	10,782.4	10,780.6	10,776.9	34.6	28.0	149.10	-192.7	99.0	807.9	756.5	51.41	15.713			
10,975.0	10,796.5	10,794.3	10,790.7	34.7	28.1	144.32	-193.3	99.0	827.3	775.8	51.50	16.064			
11,000.0	10,810.3	10,807.7	10,804.0	34.8	28.1	139.80	-193.8	99.0	846.5	795.0	51.57	16.414			
11,025.0	10,823.8	10,820.6	10,816.9	35.0	28.2	135.52	-194.3	99.0	865.6	814.0	51.64	16.763			
11,050.0	10,836.8	10,833.1	10,829.4	35.1	28.2	131.48	-194.8	99.0	884.5	832.8	51.70	17.109			
11,075.0	10,849.3	10,845.4	10,841.7	35.2	28.3	127.69	-195.2	99.0	903.1	851.4	51.75	17.452			
11,100.0	10,861.4	10,857.3	10,853.6	35.4	28.3	124.14	-195.6	99.0	921.5	869.7	51.80	17.790			
11,125.0	10,872.9	10,868.7	10,865.0	35.5	28.4	120.80	-196.0	99.0	939.6	887.8	51.84	18.125			
11,150.0	10,883.9	10,879.6	10,875.8	35.6	28.4	117.66	-196.4	99.0	957.5	905.6	51.88	18.456			
11,175.0	10,894.3	10,889.9	10,886.1	35.8	28.4	114.72	-196.7	99.0	975.1	923.2	51.91	18.783			
11,200.0	10,904.1	10,899.6	10,895.8	36.0	28.5	111.96	-196.9	99.0	992.4	940.4	51.94	19.105			

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	-90.37	-0.2	-33.0	33.0				
100.0	100.0	99.0	99.0	0.5	0.5	-90.37	-0.2	-33.0	33.0	32.0	1.02	32.362	
200.0	200.0	199.0	199.0	1.7	1.7	-90.37	-0.2	-33.0	33.0	29.6	3.39	9.728	
300.0	300.0	299.0	299.0	2.4	2.4	-90.37	-0.2	-33.0	33.0	28.2	4.80	6.873	
400.0	400.0	399.0	399.0	3.0	2.9	-90.37	-0.2	-33.0	33.0	27.1	5.89	5.603	
500.0	500.0	499.0	499.0	3.4	3.4	-90.37	-0.2	-33.0	33.0	26.2	6.82	4.843	
600.0	600.0	599.0	599.0	3.8	3.8	-90.37	-0.2	-33.0	33.0	25.4	7.64	4.323	
700.0	700.0	699.0	699.0	4.2	4.2	-90.37	-0.2	-33.0	33.0	24.6	8.38	3.939	
800.0	800.0	799.0	799.0	4.5	4.5	-90.37	-0.2	-33.0	33.0	23.9	9.07	3.639	
900.0	900.0	899.0	899.0	4.9	4.9	-90.37	-0.2	-33.0	33.0	23.3	9.72	3.397	
1,000.0	1,000.0	999.0	999.0	5.2	5.2	-90.37	-0.2	-33.0	33.0	22.7	10.33	3.195	
1,100.0	1,100.0	1,099.0	1,099.0	5.5	5.5	-90.37	-0.2	-33.0	33.0	22.1	10.91	3.025	
1,200.0	1,200.0	1,199.0	1,199.0	5.7	5.7	-90.37	-0.2	-33.0	33.0	21.5	11.47	2.878	
1,300.0	1,300.0	1,299.0	1,299.0	6.0	6.0	-90.37	-0.2	-33.0	33.0	21.0	12.01	2.750	
1,400.0	1,400.0	1,399.0	1,399.0	6.3	6.3	-90.37	-0.2	-33.0	33.0	20.5	12.52	2.636	
1,500.0	1,500.0	1,499.0	1,499.0	6.5	6.5	-90.37	-0.2	-33.0	33.0	20.0	13.02	2.535	
1,600.0	1,600.0	1,599.0	1,599.0	6.8	6.8	-90.37	-0.2	-33.0	33.0	19.5	13.51	2.444	
1,700.0	1,700.0	1,699.0	1,699.0	7.0	7.0	-90.37	-0.2	-33.0	33.0	19.0	13.98	2.361	
1,800.0	1,800.0	1,799.0	1,799.0	7.2	7.2	-90.37	-0.2	-33.0	33.0	18.6	14.44	2.286	
1,900.0	1,900.0	1,899.0	1,899.0	7.4	7.4	-90.37	-0.2	-33.0	33.0	18.1	14.89	2.217	
2,000.0	2,000.0	1,999.0	1,999.0	7.7	7.7	-90.37	-0.2	-33.0	33.0	17.7	15.33	2.153	
2,100.0	2,100.0	2,099.0	2,099.0	7.9	7.9	-90.37	-0.2	-33.0	33.0	17.3	15.76	2.094	
2,200.0	2,200.0	2,199.0	2,199.0	8.1	8.1	-90.37	-0.2	-33.0	33.0	16.8	16.19	2.040	
2,300.0	2,300.0	2,299.0	2,299.0	8.3	8.3	-90.37	-0.2	-33.0	33.0	16.4	16.60	1.989	
2,400.0	2,400.0	2,399.0	2,399.0	8.5	8.5	-90.37	-0.2	-33.0	33.0	16.0	17.01	1.941	
2,500.0	2,500.0	2,499.0	2,499.0	8.7	8.7	-90.37	-0.2	-33.0	33.0	15.6	17.41	1.896	
2,600.0	2,600.0	2,599.0	2,599.0	8.9	8.9	-90.37	-0.2	-33.0	33.0	15.2	17.81	1.854	
2,700.0	2,700.0	2,699.0	2,699.0	9.1	9.1	-90.37	-0.2	-33.0	33.0	14.8	18.20	1.814	
2,800.0	2,800.0	2,799.0	2,799.0	9.3	9.3	-90.37	-0.2	-33.0	33.0	14.4	18.58	1.777	
2,900.0	2,900.0	2,899.0	2,899.0	9.5	9.5	-90.37	-0.2	-33.0	33.0	14.1	18.96	1.741	
3,000.0	3,000.0	2,999.0	2,999.0	9.7	9.7	-90.37	-0.2	-33.0	33.0	13.7	19.33	1.708	
3,100.0	3,100.0	3,099.0	3,099.0	9.9	9.8	-90.37	-0.2	-33.0	33.0	13.3	19.70	1.676	
3,200.0	3,200.0	3,199.0	3,199.0	10.0	10.0	-90.37	-0.2	-33.0	33.0	12.9	20.07	1.645	
3,300.0	3,300.0	3,299.0	3,299.0	10.2	10.2	-90.37	-0.2	-33.0	33.0	12.6	20.43	1.616	
3,400.0	3,400.0	3,399.0	3,399.0	10.4	10.4	-90.37	-0.2	-33.0	33.0	12.2	20.79	1.588	
3,500.0	3,500.0	3,499.0	3,499.0	10.6	10.6	-90.37	-0.2	-33.0	33.0	11.9	21.14	1.562	
3,600.0	3,600.0	3,599.0	3,599.0	10.7	10.7	-90.37	-0.2	-33.0	33.0	11.5	21.49	1.536	
3,700.0	3,700.0	3,699.0	3,699.0	10.9	10.9	-90.37	-0.2	-33.0	33.0	11.2	21.84	1.512	
3,800.0	3,800.0	3,799.0	3,799.0	11.1	11.1	-90.37	-0.2	-33.0	33.0	10.8	22.19	1.488 Level 3	
3,900.0	3,900.0	3,899.0	3,899.0	11.3	11.3	-90.37	-0.2	-33.0	33.0	10.5	22.53	1.466 Level 3	
4,000.0	4,000.0	3,999.0	3,999.0	11.4	11.4	-90.37	-0.2	-33.0	33.0	10.1	22.87	1.444 Level 3	
4,100.0	4,100.0	4,099.0	4,099.0	11.6	11.6	-90.37	-0.2	-33.0	33.0	9.8	23.20	1.423 Level 3	
4,200.0	4,200.0	4,199.0	4,199.0	11.8	11.8	-90.37	-0.2	-33.0	33.0	9.5	23.54	1.403 Level 3	
4,300.0	4,300.0	4,299.0	4,299.0	11.9	11.9	-90.37	-0.2	-33.0	33.0	9.1	23.87	1.383 Level 3	
4,400.0	4,400.0	4,399.0	4,399.0	12.1	12.1	-90.37	-0.2	-33.0	33.0	8.8	24.19	1.365 Level 3	
4,500.0	4,500.0	4,499.0	4,499.0	12.3	12.3	-90.37	-0.2	-33.0	33.0	8.5	24.52	1.346 Level 3	
4,600.0	4,600.0	4,599.0	4,599.0	12.4	12.4	-90.37	-0.2	-33.0	33.0	8.2	24.84	1.329 Level 3	
4,700.0	4,700.0	4,699.0	4,699.0	12.6	12.6	-90.37	-0.2	-33.0	33.0	7.8	25.17	1.312 Level 3	
4,800.0	4,800.0	4,799.0	4,799.0	12.7	12.7	-90.37	-0.2	-33.0	33.0	7.5	25.49	1.295 Level 3	
4,900.0	4,900.0	4,899.0	4,899.0	12.9	12.9	-90.37	-0.2	-33.0	33.0	7.2	25.80	1.279 Level 3	
5,000.0	5,000.0	4,999.0	4,999.0	13.1	13.1	-90.37	-0.2	-33.0	33.0	6.9	26.12	1.264 Level 3	
5,100.0	5,100.0	5,099.0	5,099.0	13.2	13.2	-90.37	-0.2	-33.0	33.0	6.6	26.43	1.249 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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.0	5,200.0	5,199.0	5,199.0	13.4	13.4	-90.37	-0.2	-33.0	33.0	6.3	26.75	1.234	Level 3
5,300.0	5,300.0	5,299.0	5,299.0	13.5	13.5	-90.37	-0.2	-33.0	33.0	6.0	27.06	1.220	Level 3
5,400.0	5,400.0	5,398.5	5,398.5	13.6	13.6	11.97	-0.5	-33.8	33.0	5.7	27.27	1.209	Level 3
5,500.0	5,500.0	5,497.9	5,497.9	13.7	13.7	11.45	-1.4	-36.2	32.9	5.4	27.47	1.196	Level 3
5,600.0	5,599.9	5,597.4	5,597.2	13.9	13.8	10.58	-2.8	-40.3	32.7	5.0	27.69	1.180	Level 3
5,700.0	5,699.7	5,696.8	5,696.5	14.0	14.0	9.33	-4.8	-46.0	32.5	4.5	27.94	1.162	Level 3
5,714.3	5,714.0	5,711.1	5,710.7	14.0	14.0	9.12	-5.1	-46.9	32.4	4.5	27.98	1.159	Level 3, CC, ES
5,800.0	5,799.4	5,796.3	5,795.7	14.2	14.1	7.51	-7.4	-53.3	33.1	4.8	28.23	1.171	Level 3
5,900.0	5,899.2	5,896.2	5,895.2	14.3	14.3	5.40	-10.3	-61.5	34.6	6.0	28.58	1.211	Level 3
6,000.0	5,998.9	5,996.2	5,994.8	14.5	14.5	3.48	-13.2	-69.7	36.2	7.3	28.96	1.251	Level 3
6,100.0	6,098.7	6,096.2	6,094.4	14.7	14.7	1.72	-16.1	-77.9	37.8	8.5	29.37	1.288	Level 3
6,200.0	6,198.5	6,196.2	6,194.0	14.9	14.9	0.11	-19.0	-86.1	39.5	9.7	29.82	1.325	Level 3
6,300.0	6,298.2	6,296.2	6,293.6	15.2	15.2	-1.38	-21.9	-94.3	41.2	10.9	30.29	1.360	Level 3
6,400.0	6,398.0	6,396.1	6,393.2	15.4	15.4	-2.74	-24.8	-102.5	42.9	12.1	30.80	1.393	Level 3
6,500.0	6,497.7	6,496.1	6,492.8	15.7	15.7	-4.00	-27.7	-110.8	44.7	13.3	31.33	1.425	Level 3
6,600.0	6,597.5	6,596.1	6,592.4	15.9	16.0	-5.16	-30.7	-119.0	46.4	14.5	31.89	1.456	Level 3
6,700.0	6,697.2	6,696.1	6,692.0	16.2	16.3	-6.24	-33.6	-127.2	48.2	15.7	32.47	1.484	Level 3
6,800.0	6,797.0	6,796.1	6,791.6	16.5	16.6	-7.24	-36.5	-135.4	50.0	16.9	33.07	1.512	
6,900.0	6,896.8	6,896.0	6,891.2	16.8	16.9	-8.17	-39.4	-143.6	51.8	18.1	33.69	1.538	
7,000.0	6,996.5	6,996.0	6,990.8	17.1	17.2	-9.04	-42.3	-151.8	53.6	19.3	34.32	1.562	
7,100.0	7,096.3	7,096.0	7,090.4	17.5	17.6	-9.85	-45.2	-160.0	55.4	20.5	34.98	1.585	
7,200.0	7,196.0	7,196.0	7,190.0	17.8	17.9	-10.61	-48.1	-168.3	57.3	21.6	35.65	1.607	
7,300.0	7,295.8	7,296.0	7,289.6	18.1	18.3	-11.32	-51.0	-176.5	59.1	22.8	36.33	1.628	
7,400.0	7,395.5	7,395.9	7,389.2	18.5	18.6	-11.99	-53.9	-184.7	61.0	24.0	37.03	1.647	
7,500.0	7,495.3	7,495.9	7,488.8	18.9	19.0	-12.62	-56.8	-192.9	62.9	25.1	37.74	1.666	
7,600.0	7,595.0	7,595.9	7,588.4	19.2	19.4	-13.21	-59.7	-201.1	64.7	26.3	38.46	1.683	
7,700.0	7,694.8	7,695.9	7,688.0	19.6	19.8	-13.77	-62.6	-209.3	66.6	27.4	39.20	1.700	
7,800.0	7,794.6	7,795.9	7,787.6	20.0	20.2	-14.30	-65.6	-217.5	68.5	28.6	39.94	1.715	
7,900.0	7,894.3	7,895.8	7,887.2	20.3	20.6	-14.80	-68.5	-225.8	70.4	29.7	40.69	1.730	
8,000.0	7,994.1	7,995.8	7,986.8	20.7	21.0	-15.27	-71.4	-234.0	72.3	30.9	41.45	1.744	
8,100.0	8,093.8	8,095.8	8,086.4	21.1	21.4	-15.72	-74.3	-242.2	74.2	32.0	42.22	1.758	
8,200.0	8,193.6	8,195.8	8,186.0	21.5	21.9	-16.15	-77.2	-250.4	76.1	33.1	43.00	1.770	
8,300.0	8,293.3	8,295.8	8,285.6	21.9	22.3	-16.55	-80.1	-258.6	78.0	34.2	43.79	1.782	
8,400.0	8,393.1	8,395.7	8,385.2	22.3	22.7	-16.94	-83.0	-266.8	79.9	35.4	44.58	1.793	
8,500.0	8,492.9	8,495.7	8,484.8	22.8	23.2	-17.31	-85.9	-275.0	81.9	36.5	45.37	1.804	
8,600.0	8,592.6	8,595.7	8,584.4	23.2	23.6	-17.66	-88.8	-283.3	83.8	37.6	46.18	1.814	
8,700.0	8,692.4	8,695.7	8,684.0	23.6	24.1	-18.00	-91.7	-291.5	85.7	38.7	46.99	1.824	
8,800.0	8,792.1	8,795.7	8,783.6	24.0	24.5	-18.32	-94.6	-299.7	87.6	39.8	47.80	1.833	
8,900.0	8,891.9	8,895.6	8,883.2	24.4	25.0	-18.62	-97.6	-307.9	89.6	40.9	48.62	1.842	
9,000.0	8,991.6	8,995.6	8,982.8	24.9	25.4	-18.92	-100.5	-316.1	91.5	42.1	49.45	1.850	
9,100.0	9,091.4	9,095.6	9,082.4	25.3	25.9	-19.20	-103.4	-324.3	93.4	43.2	50.28	1.858	
9,200.0	9,191.1	9,195.6	9,182.0	25.8	26.3	-19.47	-106.3	-332.5	95.4	44.3	51.11	1.866	
9,300.0	9,290.9	9,295.6	9,281.6	26.2	26.8	-19.73	-109.2	-340.8	97.3	45.4	51.95	1.873	
9,400.0	9,390.7	9,395.5	9,381.2	26.6	27.3	-19.98	-112.1	-349.0	99.3	46.5	52.79	1.880	
9,500.0	9,490.4	9,495.5	9,480.8	27.1	27.8	-20.22	-115.0	-357.2	101.2	47.6	53.63	1.887	
9,600.0	9,590.2	9,595.5	9,580.4	27.5	28.2	-20.45	-117.9	-365.4	103.1	48.7	54.48	1.893	
9,700.0	9,689.9	9,695.5	9,680.0	28.0	28.7	-20.67	-120.8	-373.6	105.1	49.8	55.33	1.899	
9,800.0	9,789.7	9,795.5	9,779.6	28.4	29.2	-20.89	-123.7	-381.8	107.0	50.8	56.19	1.905	
9,900.0	9,889.4	9,895.5	9,879.2	28.9	29.7	-21.10	-126.6	-390.0	109.0	51.9	57.05	1.910	
10,000.0	9,989.2	9,995.4	9,978.8	29.3	30.2	-21.29	-129.5	-398.2	110.9	53.0	57.91	1.916	
10,100.0	10,089.0	10,095.4	10,078.4	29.8	30.6	-21.49	-132.5	-406.5	112.9	54.1	58.77	1.921	
10,200.0	10,188.7	10,195.4	10,178.0	30.3	31.1	-21.67	-135.4	-414.7	114.8	55.2	59.64	1.926	

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	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)			
10,298.5	10,287.0	10,293.9	10,276.2	30.7	31.6	-21.85	-138.2	-422.8	116.8	56.3	60.49	1.930	
10,300.0	10,288.5	10,295.4	10,277.6	30.7	31.6	-21.96	-138.3	-422.9	116.8	56.3	60.50	1.930	
10,325.0	10,313.3	10,320.4	10,302.5	30.8	31.7	-23.14	-139.0	-424.9	116.6	55.9	60.69	1.921	
10,350.0	10,338.1	10,345.3	10,327.4	31.0	31.9	-24.08	-139.7	-427.0	115.3	54.4	60.86	1.894	
10,375.0	10,362.5	10,370.1	10,352.1	31.2	32.0	-25.19	-140.4	-429.0	112.7	51.8	60.96	1.849	
10,400.0	10,386.7	10,394.8	10,376.6	31.3	32.1	-26.63	-141.2	-431.1	109.1	48.1	60.99	1.788	
10,425.0	10,410.5	10,419.1	10,400.9	31.5	32.2	-28.52	-141.9	-433.1	104.3	43.4	60.90	1.712	
10,450.0	10,433.9	10,443.2	10,424.9	31.7	32.3	-31.00	-142.6	-435.0	98.5	37.8	60.66	1.624	
10,475.0	10,456.8	10,466.9	10,448.5	31.9	32.5	-34.24	-143.3	-437.0	91.8	31.6	60.19	1.525	
10,500.0	10,479.1	10,490.1	10,471.6	32.0	32.6	-38.49	-143.9	-438.9	84.4	25.0	59.35	1.421 Level 3	
10,525.0	10,500.9	10,512.8	10,494.2	32.2	32.7	-44.08	-144.6	-440.8	76.4	18.4	57.96	1.318 Level 3	
10,550.0	10,521.9	10,534.9	10,516.3	32.4	32.8	-51.42	-145.2	-442.6	68.3	12.6	55.70	1.226 Level 3	
10,575.0	10,542.2	10,556.4	10,537.7	32.6	32.9	-60.90	-145.9	-444.3	60.7	8.5	52.18	1.163 Level 3	
10,600.0	10,561.7	10,577.2	10,558.4	32.7	33.0	-72.60	-146.5	-446.0	54.7	7.3	47.38	1.154 Level 3, SF	
10,625.0	10,580.4	10,597.2	10,578.3	32.9	33.1	-85.87	-147.1	-447.7	51.7	8.7	42.99	1.202 Level 3	
10,630.2	10,584.2	10,601.3	10,582.4	32.9	33.1	-88.71	-147.2	-448.0	51.6	9.1	42.48	1.214 Level 3	
10,650.0	10,598.2	10,616.4	10,597.5	33.1	33.2	-99.23	-147.6	-449.3	53.1	10.4	42.73	1.243 Level 3	
10,675.0	10,615.0	10,634.8	10,615.7	33.2	33.3	-111.15	-148.1	-450.8	59.5	12.4	47.07	1.264 Level 3	
10,700.4	10,631.1	10,652.5	10,633.4	33.4	33.4	-120.98	-148.7	-452.2	70.3	17.9	52.44	1.341 Level 3	
10,725.0	10,646.2	10,669.2	10,650.0	33.5	33.5	-133.19	-149.2	-453.6	84.0	27.7	56.33	1.491 Level 3	
10,750.0	10,661.6	10,686.2	10,667.0	33.6	33.5	-143.93	-149.6	-455.0	99.9	41.1	58.81	1.699	
10,775.0	10,677.1	10,703.2	10,683.9	33.7	33.6	-153.12	-150.1	-456.4	117.0	56.7	60.34	1.940	
10,800.0	10,692.5	10,720.2	10,700.8	33.9	33.7	-161.04	-150.6	-457.8	134.9	73.6	61.29	2.200	
10,825.0	10,707.9	10,737.0	10,717.6	34.0	33.8	-167.96	-151.1	-459.2	153.1	91.2	61.88	2.474	
10,850.0	10,723.1	10,753.7	10,734.3	34.1	33.9	-174.10	-151.6	-460.5	171.7	109.4	62.23	2.758	
10,875.0	10,738.3	10,770.3	10,750.7	34.2	34.0	-179.62	-152.1	-461.9	190.4	128.0	62.42	3.051	
10,900.0	10,753.2	10,786.5	10,766.9	34.3	34.0	-175.33	-152.6	-463.2	209.4	146.9	62.48	3.351	
10,925.0	10,767.9	10,802.5	10,782.8	34.5	34.1	-170.66	-153.0	-464.6	228.4	166.0	62.45	3.658	
10,950.0	10,782.4	10,818.2	10,798.4	34.6	34.2	-166.30	-153.5	-465.8	247.6	185.3	62.34	3.972	
10,975.0	10,796.5	10,833.5	10,813.7	34.7	34.3	-162.18	-153.9	-467.1	266.9	204.7	62.16	4.294	
11,000.0	10,810.3	10,848.3	10,828.5	34.8	34.4	-158.26	-154.4	-468.3	286.3	224.3	61.92	4.623	
11,025.0	10,823.8	10,862.8	10,842.9	35.0	34.4	-154.50	-154.8	-469.5	305.7	244.1	61.63	4.961	
11,050.0	10,836.8	10,876.7	10,856.7	35.1	34.5	-150.86	-155.2	-470.7	325.3	264.0	61.30	5.307	
11,075.0	10,849.3	10,890.1	10,870.1	35.2	34.6	-147.33	-155.6	-471.8	345.0	284.0	60.92	5.662	
11,100.0	10,861.4	10,902.9	10,882.9	35.4	34.6	-143.87	-155.9	-472.8	364.7	304.2	60.51	6.027	
11,125.0	10,872.9	10,915.1	10,895.0	35.5	34.7	-140.48	-156.3	-473.8	384.5	324.5	60.07	6.402	
11,150.0	10,883.9	10,926.7	10,906.6	35.6	34.7	-137.12	-156.6	-474.8	404.4	344.8	59.60	6.786	
11,175.0	10,894.3	10,937.6	10,917.5	35.8	34.8	-133.80	-157.0	-475.7	424.4	365.3	59.10	7.181	
11,200.0	10,904.1	10,947.9	10,927.6	36.0	34.9	-130.51	-157.3	-476.5	444.4	385.8	58.59	7.586	
11,225.0	10,913.2	10,957.4	10,937.1	36.1	34.9	-127.24	-157.5	-477.3	464.5	406.4	58.05	8.001	
11,250.0	10,921.7	10,966.1	10,945.8	36.3	34.9	-123.98	-157.8	-478.0	484.6	427.1	57.50	8.427	
11,275.0	10,929.5	10,974.1	10,953.7	36.5	35.0	-120.75	-158.0	-478.7	504.7	447.8	56.95	8.863	
11,300.0	10,936.6	10,981.2	10,960.9	36.7	35.0	-117.54	-158.2	-479.2	524.8	468.4	56.38	9.309	
11,325.0	10,942.9	10,987.6	10,967.2	36.8	35.1	-114.36	-158.4	-479.8	544.9	489.1	55.81	9.764	
11,350.0	10,948.6	10,993.1	10,972.7	37.0	35.1	-111.24	-158.6	-480.2	565.0	509.7	55.23	10.229	
11,375.0	10,953.4	10,997.8	10,977.3	37.2	35.1	-108.17	-158.7	-480.6	584.9	530.3	54.66	10.702	
11,400.0	10,957.5	11,001.5	10,981.1	37.4	35.1	-105.18	-158.8	-480.9	604.8	550.7	54.09	11.182	
11,425.0	10,960.8	11,004.5	10,984.0	37.6	35.1	-102.28	-158.9	-481.1	624.6	571.1	53.53	11.669	
11,450.0	10,963.3	11,006.5	10,986.1	37.8	35.1	-99.48	-159.0	-481.3	644.2	591.2	52.97	12.161	
11,475.0	10,965.0	11,007.7	10,987.2	37.9	35.2	-96.81	-159.0	-481.4	663.7	611.2	52.43	12.658	
11,500.0	10,965.9	11,007.9	10,987.5	38.1	35.2	-94.27	-159.0	-481.4	682.9	631.0	51.90	13.157	
11,515.0	10,966.0	11,007.7	10,987.2	38.2	35.2	-92.81	-159.0	-481.4	694.3	642.7	51.59	13.458	

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			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		
11,600.0	10,966.0	11,005.2	10,984.8	38.8	35.1	92.51	-158.9	-481.2	760.8	710.7	50.10	15.184		
11,700.0	10,966.0	11,002.4	10,981.9	39.6	35.1	92.14	-158.8	-481.0	843.3	794.4	48.85	17.261		
11,808.9	10,966.0	10,999.3	10,978.8	40.5	35.1	91.75	-158.8	-480.7	937.0	889.0	47.94	19.543		

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

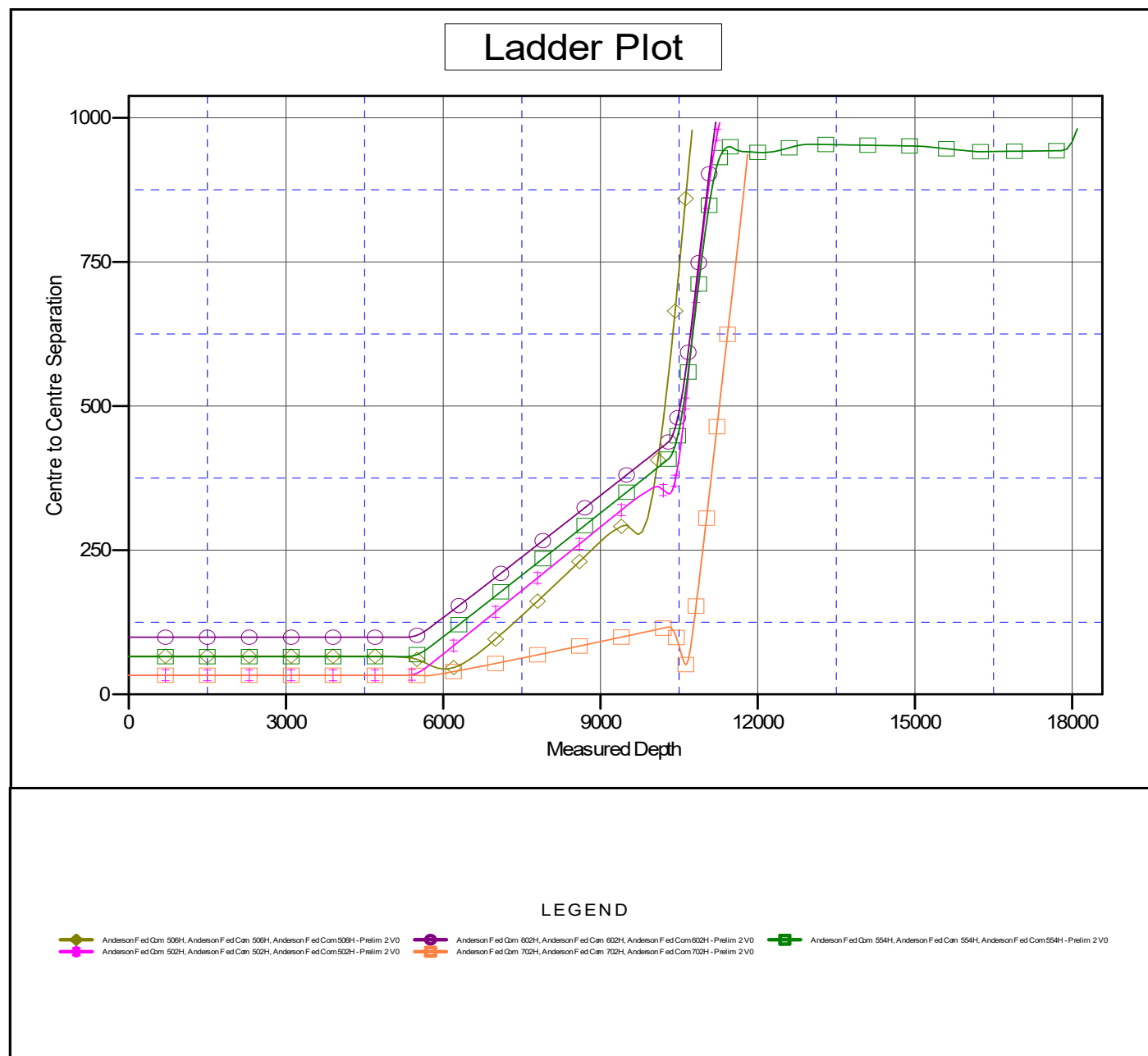
Offset Depths are relative to Offset Datum

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

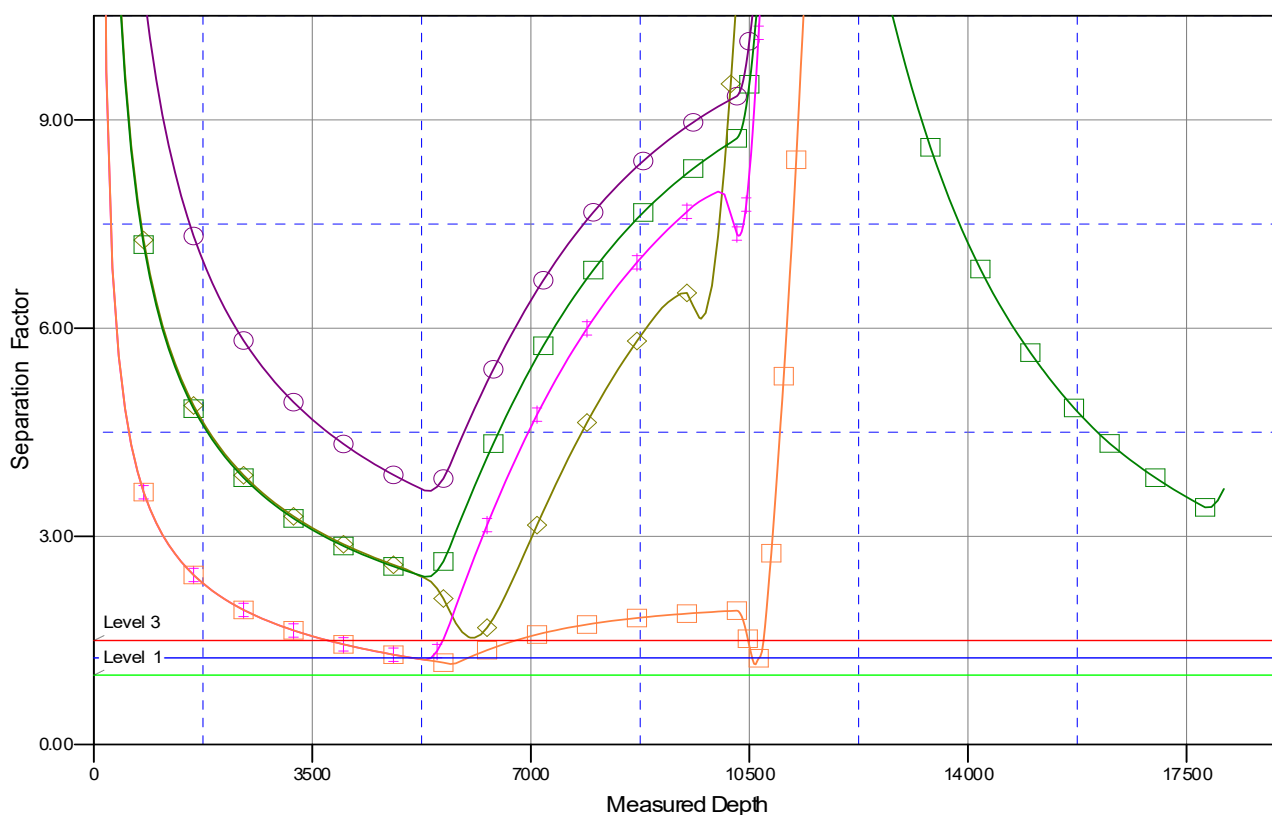
Central Meridian is 104° 20' 0.000 W

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 V/O
 ● Anderson Fed Com 602H, Anderson Fed Com 602H, Anderson Fed Com 602H - Prelim 2 V/O
 ■ Anderson Fed Com 554H, Anderson Fed Com 554H, Anderson Fed Com 554H - Prelim 2 V/O
◆ Anderson Fed Com 502H, Anderson Fed Com 502H, Anderson Fed Com 502H - Prelim 2 V/O
 ■ Anderson Fed Com 702H, Anderson Fed Com 702H, Anderson Fed Com 702H - Prelim 2 V/O

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

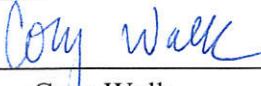
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(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 55970

CONDITIONS

Operator: ADVANCE ENERGY PARTNERS HAT MESA, LLC 11490 Westheimer Rd., Ste 950 Houston, TX 77077	OGRID: 372417
	Action Number: 55970
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	11/4/2021