

Well Name: ANDERSON FED COM	Well Location: T22S / R32E / SEC 2 / LOT 2 /	County or Parish/State:
Well Number: 555H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM120905	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002548999	Well Status: Approved Application for Permit to Drill	Operator: ADVANCE ENERGY PARTNERS HAT MESA LLC

Notice of Intent

Type of Submission: Notice of Intent	Type of Action Other
Date Sundry Submitted: 08/05/2021	Time Sundry Submitted: 12:39
Date proposed operation will begin: 08/13/2021	

Procedure Description: Request to move Bottom Hole Location from 1220' FSL & 2310' FEL, Section 26, T-21-S, R-32-E, SWSE to 1220' FSL & 2178' FEL, Section 26, T-21-S, R-32-E, SWSE. Please see attached drill plan, directional plan, and plats for detailed information regarding changes to casing, cement, and mud programs.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

Anderson_555H_BHL_etc_Sundry_Attachment_20210805123904.pdf

Conditions of Approval

Specialist Review

Anderson_Fed_Com_555H_Dr_COA_Sundry_ID_2627399_20210806102633.pdf

Well Name: ANDERSON FED COM

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

County or Parish/State:

Well Number: 555H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM120905

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002548999

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 05, 2021 12:39 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: 08/06/2021

Signature: Chris Walls

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone (505) 393-6161 Fax: (505) 393-0720

DISTRICT II
811 S. First St., Artesia, NM 88210
Phone (505) 748-1283 Fax: (505) 748-9720

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

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised August 4, 2011

Submit one copy to appropriate
District Office

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-48999	Pool Code 51683	Pool Name Red Tank; Bone Spring
Property Code	Property Name ANDERSON FED COM	Well Number 555H
OGRID No. 372417	Operator Name ADVANCE ENERGY PARTNERS HAT MESA, LLC	Elevation 3666'

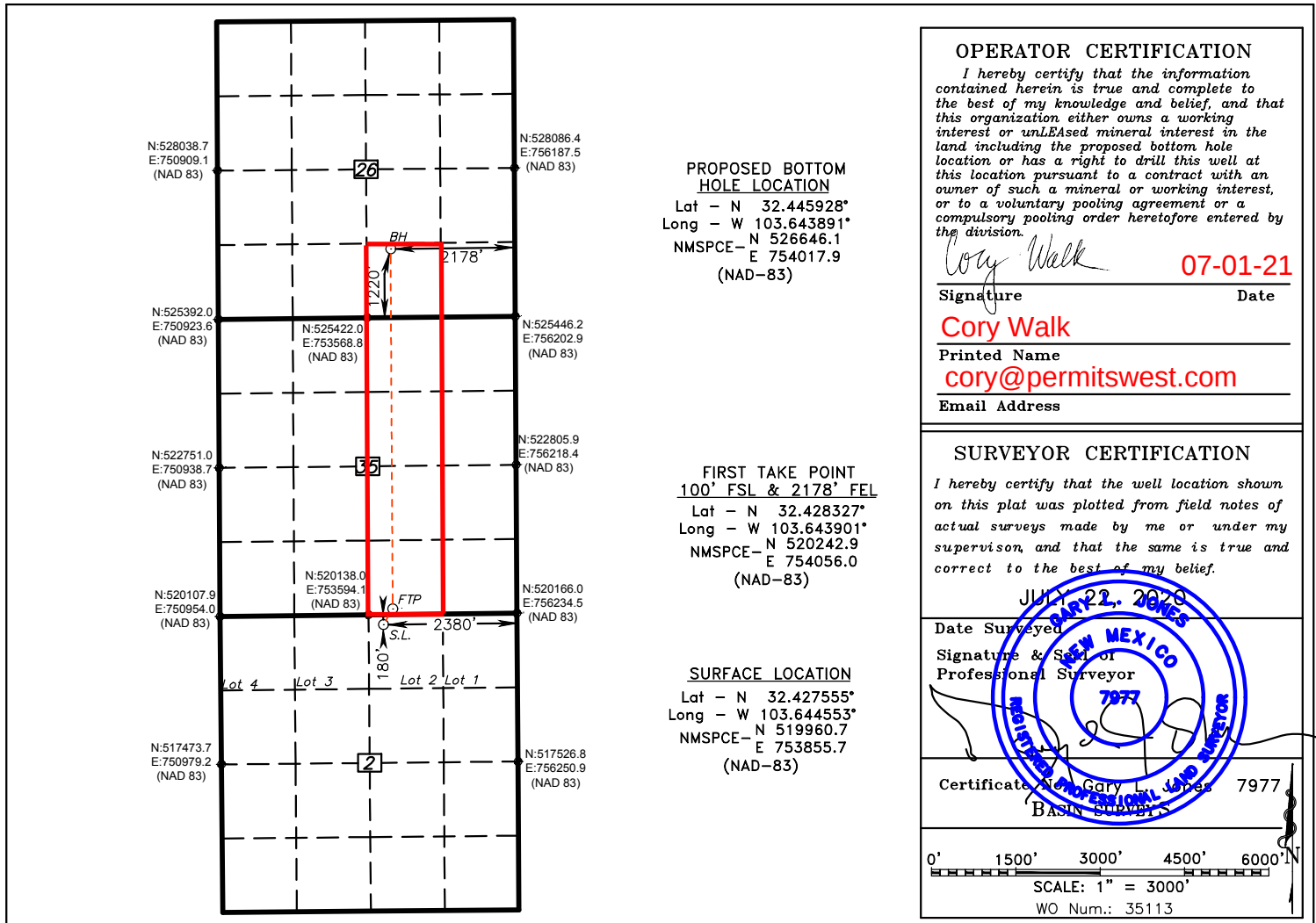
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	SOUTH/South line	Feet from the	East/West line	County
LOT 2	2	22 S	32 E		180	NORTH	2380	EAST	LEA

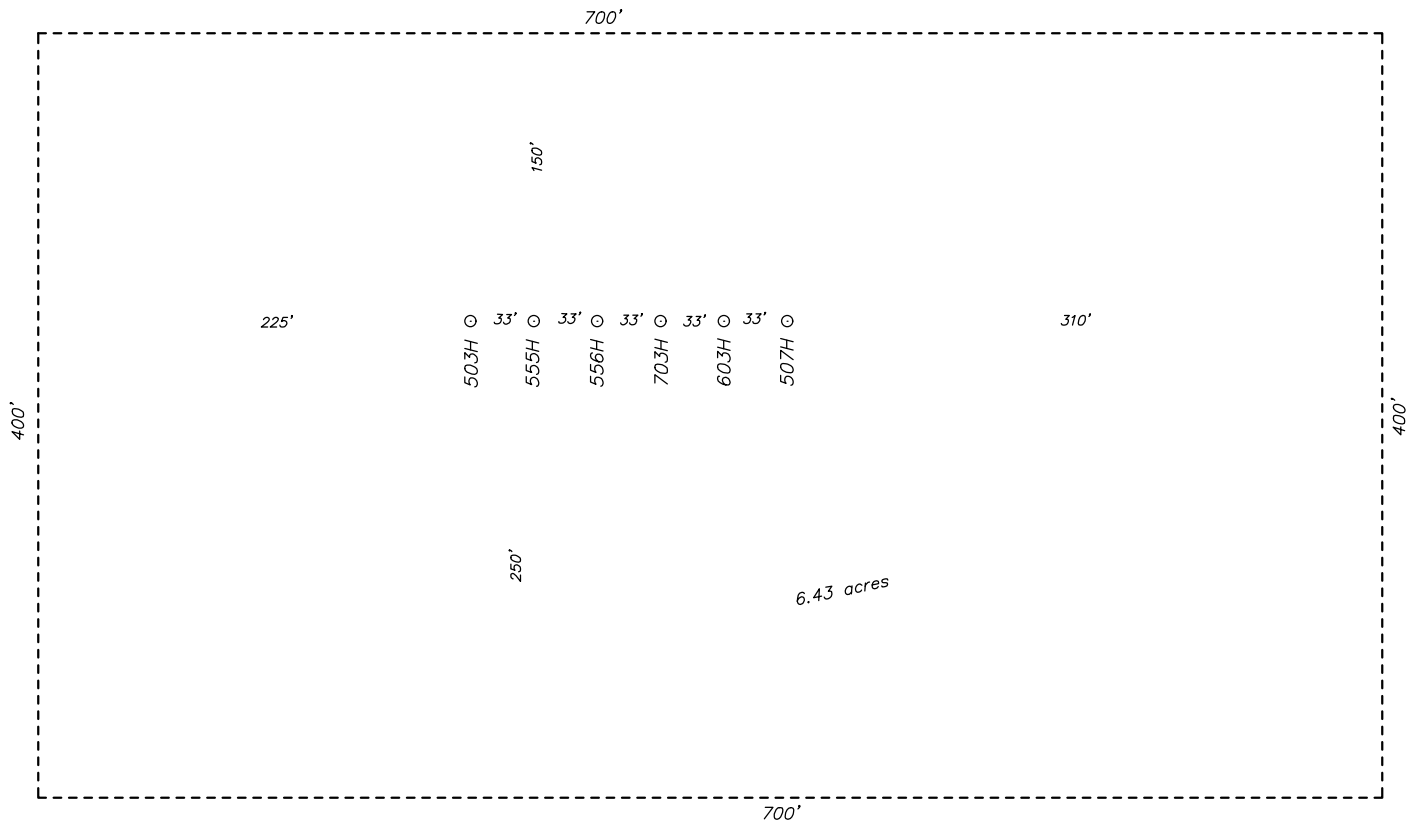
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	SOUTH/South line	Feet from the	East/West line	County
O	26	21 S	32 E		1220	SOUTH	2178	EAST	LEA
Dedicated Acres 200	Joint or Infill	Consolidation Code C	Order No.						

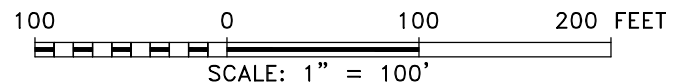
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



N



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



REF: ANDERSON FED COM 503H / WELL PAD TOPO

THE ANDERSON FED COM 503H LOCATED 180' FROM
THE NORTH LINE AND 2413' FROM THE EAST LINE OF
SECTION 2, TOWNSHIP 22 SOUTH, RANGE 32 EAST.
N.M.P.M., LEA COUNTY, NEW MEXICO.

CHANGE TO PLANS

Move First Take Point

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

To: 100' FSL & 2178' FEL, Section 35, T-21-S, R-32-E, SWSE

Move Bottom Hole Location

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

To: 1220' FSL & 2178' FEL, Section 26, T-21-S, R-32-E, SWSE

Producing Formation

From: 3rd Bone Spring

To: 2nd Bone Spring

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

Advance Energy Partners Hat Mesa, LLC
 Anderson Fed Com 555H
 SHL 180' FNL & 2380' FEL Sec. 2, T. 22 S., R. 32 E.
 BHL 1220' FSL & 2178' FEL Sec. 26, T 21 S., R. 32 E.
 Lea County, NM

DRILL PLAN PAGE 1

"Anderson Fed Com Pad B"

Drilling Program

1. ESTIMATED TOPS

Formation	TVD	MD	Bearing
Quaternary caliche	000'	000'	water
Rustler anhydrite (surf csg set @ 1218')	1193'	1193'	N/A
Top salt	1402'	1402'	N/A
Tansil limestone (int csg set @ 4721')	3280'	3280'	N/A
Bell Canyon limestone	4771'	4771'	hydrocarbons
Cherry Canyon sandstone	5682'	5682'	hydrocarbons
Lower Brushy Canyon sandstone	8419'	8422'	hydrocarbons
Avalon shale	8938'	8941'	hydrocarbons
1 st Bone Spring sandstone	9805'	9809'	hydrocarbons
(KOP	10363'	10369'	hydrocarbons)
2 nd Bone Spring sandstone	10403'	10408'	hydrocarbons
TD	10840'	17529'	hydrocarbons

2. NOTABLE ZONES

Second Bone is the goal. Closest water well (CP 01701 POD 1) is 0.64-mile north. 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.

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 Anderson Fed Com 555H
 SHL 180' FNL & 2380' FEL Sec. 2, T. 22 S., R. 32 E.
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 Lea County, NM

DRILL PLAN PAGE 2

"Anderson Fed Com Pad B"

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' - 1218'	0' - 1218'	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' - 4721'	4000' - 4721'	Intermed. 9.625"	40	HCL-80	LTC	1.125	1.125	1.6
8.5"	0' - 17529'	0' - 10840'	Product. 5.5"	20	HCP-110	CDC-HTQ	1.125	1.125	1.6

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

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

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

Advance Energy Partners Hat Mesa, LLC
 Anderson Fed Com 555H
 SHL 180' FNL & 2380' FEL Sec. 2, T. 22 S., R. 32 E.
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 Lea County, NM

DRILL PLAN PAGE 3

"Anderson Fed Com Pad B"

Name	Type	Top MD	Sacks	Yield	Cu. Ft	Weight	Excess	Cement	Additives
Surface	Lead	0	505	1.9	960	12.8	50%	B Poz + C	6% Gel + 5% SALT + 0.25PPS Pol-E-Flake + 0.005GPS NoFoam V1A
	Tail	918	215	1.35	290	14.8	20%	C	2% CaCl ₂ + 0.005GPS NoFoam V1A
1st Intermediate (stage 1)	Lead	2800	1380	1.84	2539	12.8	727%	B Poz + C	2% Gel + 5% SALT + 0.15% R-1300 + 0.25PPS Pol-E-Flake + 0.005GPS NoFoam V1A
	Tail	3776	310	1.21	375	15.6	20%	C	5% SALT + 0.005GPS NoFoam V1A
1st Intermediate (stage 2)	Lead	0	460	3.00	1380	11	153%	ProLite	5PPS Plexcrete STE + 2% SMS + 0.05% SuspendaCem 6302 + 0.5% C-47B + 3PPS Gilsonite + 0.005GPS NoFoam V1A
	Tail	2395	100	1.33	133	14.8	0%	C	0.005GPS NoFoam V1A
Production	Lead	0	940	3.39	3187	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	10369	1630	1.22	1989	14.5	20%	B Poz + H	5% SALT + 0.65% C-20 + 0.5% C-47B + 0.005GPS NoFoam V1A

Note: Intermediate 1 is a two-stage cement job. DVT will be placed at approximately 2,800'.

5. MUD PROGRAM

An electronic pit volume totalizer (PVT) will be used to monitor volume, flow rate, pump pressure, and stroke rate. All necessary additives (e. g., barite, bentonite, LCM) to maintain mud properties and meet minimum lost circulation and weight increase needs will be on site at all times. Mud program may change due to hole conditions. A closed loop system will be used.

Advance Energy Partners Hat Mesa, LLC
Anderson Fed Com 555H
SHL 180' FNL & 2380' FEL Sec. 2, T. 22 S., R. 32 E.
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Lea County, NM

DRILL PLAN PAGE 4

"Anderson Fed Com Pad B"

Type	Interval (MD)	lb/gal	Viscosity	Fluid Loss ml/30 mins
fresh water	0' - 1218'	8.4 - 10.0	28 - 36	N/C
Brine	1218' - 4721'	10.0 - 10.5	28 - 32	N/C
Cut Brine	4721' - 11119'	9.2 - 9.5	28 - 30	N/C
OBM	11119' - 17529'	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 $\approx 228^{\circ}$ 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 555H**

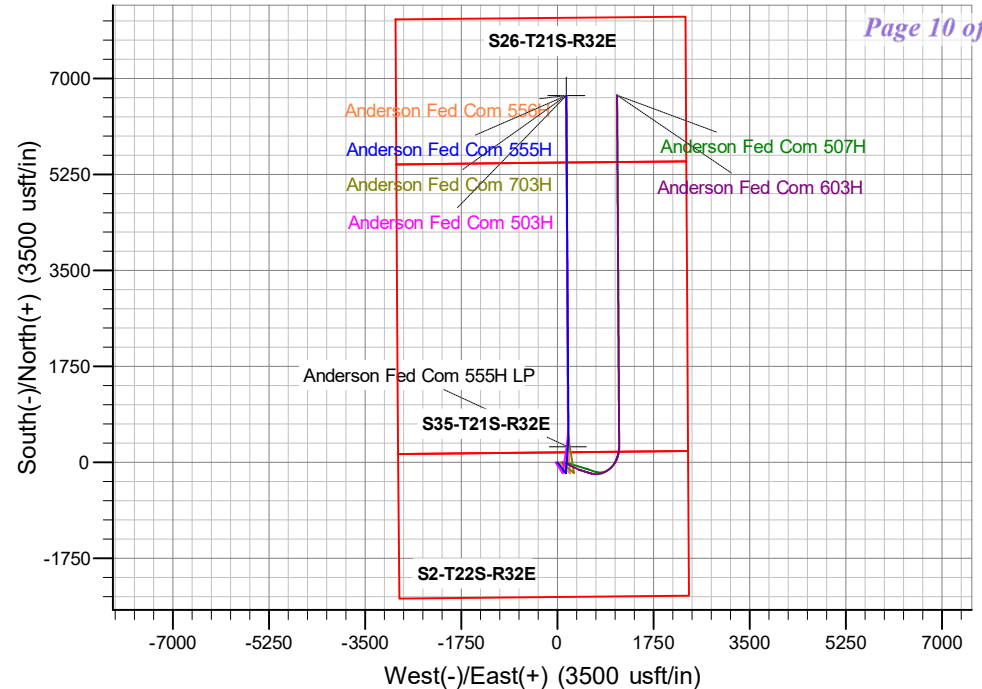
Ground Elev: 3666.0 KB: 3698.5

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	519960.65	753856.64	32° 25' 39.198 N	103° 38' 40.391 W

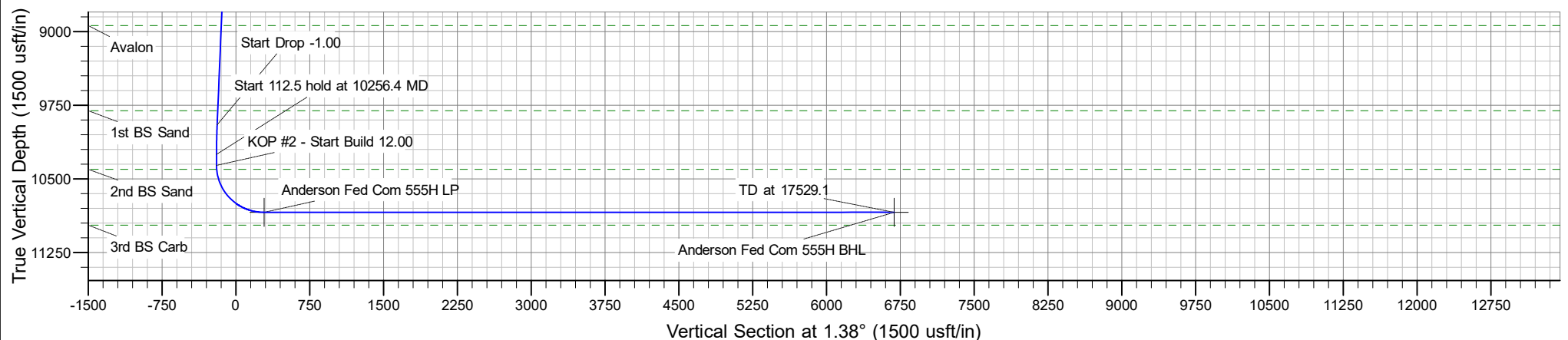
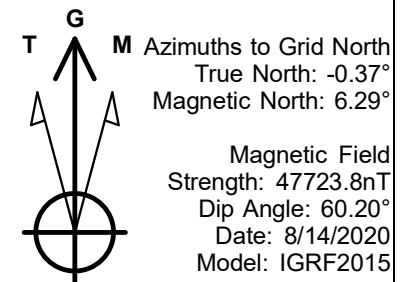
PROJECT DETAILS: Hat Mesa

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	5200.0	0.00	0.00	5200.0	0.0	0.0	0.00	0.00	0.0	KOP - Start Build 1.00
3	5501.4	3.01	143.13	5501.2	-6.3	4.8	1.00	143.13	-6.2	Start 4453.7 hold at 5501.4 MD
4	9955.1	3.01	143.13	9948.8	-193.7	145.2	0.00	0.00	-190.1	Start Drop -1.00
5	10256.4	0.00	0.00	10250.0	-200.0	150.0	1.00	180.00	-196.3	Start 112.5 hold at 10256.4 MD
6	10369.0	0.00	0.00	10362.5	-200.0	150.0	0.00	0.00	-196.3	KOP #2 - Start Build 12.00
7	11119.0	90.00	4.74	10840.0	275.8	189.5	12.00	4.74	280.3	LP - Start 6.3 hold at 11119.0 MD
8	11125.3	90.00	4.74	10840.0	282.2	190.0	0.00	0.00	286.6	Start DLS 2.00 TFO -90.00
9	11380.4	90.00	359.64	10840.0	537.0	199.8	2.00	-90.00	541.7	Start 6148.6 hold at 11380.4 MD
10	17529.1	90.00	359.64	10840.0	6685.5	161.1	0.00	0.00	6687.4	TD at 17529.1





Advance Energy Partners

Hat Mesa

Anderson Fed Com - Pad B

Anderson Fed Com 555H

Anderson Fed Com 555H

Plan: Anderson Fed Com 555H - Prelim 1

Standard Planning Report

16 June, 2021



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Anderson Fed Com 555H
Company:	Advance Energy Partners	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site:	Anderson Fed Com - Pad B	North Reference:	Grid
Well:	Anderson Fed Com 555H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 555H		
Design:	Anderson Fed Com 555H - Prelim 1		

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

Site	Anderson Fed Com - Pad B				
Site Position:		Northing:	519,961.99 usft	Latitude:	32° 25' 39.205 N
From:	Lat/Long	Easting:	753,954.75 usft	Longitude:	103° 38' 39.246 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "		

Well	Anderson Fed Com 555H					
Well Position	+N/-S	0.0 usft	Northing:	519,960.65 usft	Latitude:	32° 25' 39.198 N
	+E/-W	0.0 usft	Easting:	753,856.64 usft	Longitude:	103° 38' 40.391 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,666.0 usft
Grid Convergence:	0.37 °					

Wellbore	Anderson Fed Com 555H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	8/14/2020	6.66	60.20	47,723.75802711

Design	Anderson Fed Com 555H - Prelim 1				
Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	1.38	

Plan Survey Tool Program	Date	6/10/2021			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	17,529.1	Anderson Fed Com 555H - Prelim	MWD+HRGM	
			OWSG MWD + HRGM		



Planning Report

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Company:	Advance Energy Partners	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site:	Anderson Fed Com - Pad B	North Reference:	Grid
Well:	Anderson Fed Com 555H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 555H		
Design:	Anderson Fed Com 555H - Prelim 1		

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	
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,501.4	3.01	143.13	5,501.2	-6.3	4.8	1.00	1.00	0.00	143.13	
9,955.1	3.01	143.13	9,948.8	-193.7	145.2	0.00	0.00	0.00	0.00	
10,256.4	0.00	0.00	10,250.0	-200.0	150.0	1.00	-1.00	0.00	180.00	
10,369.0	0.00	0.00	10,362.5	-200.0	150.0	0.00	0.00	0.00	0.00	
11,119.0	90.00	4.74	10,840.0	275.8	189.5	12.00	12.00	0.00	4.74	
11,125.3	90.00	4.74	10,840.0	282.2	190.0	0.00	0.00	0.00	0.00	Anderson Fed Com 5
11,380.4	90.00	359.64	10,840.0	537.0	199.8	2.00	0.00	-2.00	-90.00	
17,529.1	90.00	359.64	10,840.0	6,685.5	161.1	0.00	0.00	0.00	0.00	Anderson Fed Com 5



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Anderson Fed Com 555H
Company:	Advance Energy Partners	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site:	Anderson Fed Com - Pad B	North Reference:	Grid
Well:	Anderson Fed Com 555H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 555H		
Design:	Anderson Fed Com 555H - Prelim 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,193.0	0.00	0.00	1,193.0	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
4,771.0	0.00	0.00	4,771.0	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 555H
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Project:	Hat Mesa	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site:	Anderson Fed Com - Pad B	North Reference:	Grid
Well:	Anderson Fed Com 555H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 555H		
Design:	Anderson Fed Com 555H - Prelim 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
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
KOP - Start Build 1.00									
5,300.0	1.00	143.13	5,300.0	-0.7	0.5	-0.7	1.00	1.00	0.00
5,400.0	2.00	143.13	5,400.0	-2.8	2.1	-2.7	1.00	1.00	0.00
5,500.0	3.00	143.13	5,499.9	-6.3	4.7	-6.2	1.00	1.00	0.00
5,501.4	3.01	143.13	5,501.2	-6.3	4.8	-6.2	1.00	1.00	0.00
Start 4453.7 hold at 5501.4 MD									
5,600.0	3.01	143.13	5,599.7	-10.5	7.9	-10.3	0.00	0.00	0.00
5,700.0	3.01	143.13	5,699.6	-14.7	11.0	-14.4	0.00	0.00	0.00
5,800.0	3.01	143.13	5,799.4	-18.9	14.2	-18.6	0.00	0.00	0.00
5,900.0	3.01	143.13	5,899.3	-23.1	17.3	-22.7	0.00	0.00	0.00
6,000.0	3.01	143.13	5,999.2	-27.3	20.5	-26.8	0.00	0.00	0.00
6,100.0	3.01	143.13	6,099.0	-31.5	23.6	-30.9	0.00	0.00	0.00
6,200.0	3.01	143.13	6,198.9	-35.7	26.8	-35.1	0.00	0.00	0.00
6,300.0	3.01	143.13	6,298.8	-39.9	29.9	-39.2	0.00	0.00	0.00
6,400.0	3.01	143.13	6,398.6	-44.1	33.1	-43.3	0.00	0.00	0.00
6,500.0	3.01	143.13	6,498.5	-48.3	36.3	-47.5	0.00	0.00	0.00
6,600.0	3.01	143.13	6,598.3	-52.5	39.4	-51.6	0.00	0.00	0.00
6,700.0	3.01	143.13	6,698.2	-56.8	42.6	-55.7	0.00	0.00	0.00
6,800.0	3.01	143.13	6,798.1	-61.0	45.7	-59.8	0.00	0.00	0.00
6,900.0	3.01	143.13	6,897.9	-65.2	48.9	-64.0	0.00	0.00	0.00
7,000.0	3.01	143.13	6,997.8	-69.4	52.0	-68.1	0.00	0.00	0.00
7,100.0	3.01	143.13	7,097.7	-73.6	55.2	-72.2	0.00	0.00	0.00
7,200.0	3.01	143.13	7,197.5	-77.8	58.3	-76.4	0.00	0.00	0.00
7,300.0	3.01	143.13	7,297.4	-82.0	61.5	-80.5	0.00	0.00	0.00
7,400.0	3.01	143.13	7,397.2	-86.2	64.6	-84.6	0.00	0.00	0.00
7,500.0	3.01	143.13	7,497.1	-90.4	67.8	-88.7	0.00	0.00	0.00
7,600.0	3.01	143.13	7,597.0	-94.6	71.0	-92.9	0.00	0.00	0.00
7,700.0	3.01	143.13	7,696.8	-98.8	74.1	-97.0	0.00	0.00	0.00
7,800.0	3.01	143.13	7,796.7	-103.0	77.3	-101.1	0.00	0.00	0.00
7,900.0	3.01	143.13	7,896.5	-107.2	80.4	-105.3	0.00	0.00	0.00
8,000.0	3.01	143.13	7,996.4	-111.4	83.6	-109.4	0.00	0.00	0.00
8,100.0	3.01	143.13	8,096.3	-115.6	86.7	-113.5	0.00	0.00	0.00
8,200.0	3.01	143.13	8,196.1	-119.8	89.9	-117.6	0.00	0.00	0.00
8,300.0	3.01	143.13	8,296.0	-124.0	93.0	-121.8	0.00	0.00	0.00
8,400.0	3.01	143.13	8,395.9	-128.3	96.2	-125.9	0.00	0.00	0.00
8,423.2	3.01	143.13	8,419.0	-129.2	96.9	-126.9	0.00	0.00	0.00
Lower Brushy									
8,500.0	3.01	143.13	8,495.7	-132.5	99.3	-130.0	0.00	0.00	0.00
8,600.0	3.01	143.13	8,595.6	-136.7	102.5	-134.2	0.00	0.00	0.00
8,700.0	3.01	143.13	8,695.4	-140.9	105.7	-138.3	0.00	0.00	0.00
8,800.0	3.01	143.13	8,795.3	-145.1	108.8	-142.4	0.00	0.00	0.00
8,900.0	3.01	143.13	8,895.2	-149.3	112.0	-146.5	0.00	0.00	0.00
8,942.9	3.01	143.13	8,938.0	-151.1	113.3	-148.3	0.00	0.00	0.00
Avalon									
9,000.0	3.01	143.13	8,995.0	-153.5	115.1	-150.7	0.00	0.00	0.00
9,100.0	3.01	143.13	9,094.9	-157.7	118.3	-154.8	0.00	0.00	0.00
9,200.0	3.01	143.13	9,194.7	-161.9	121.4	-158.9	0.00	0.00	0.00
9,300.0	3.01	143.13	9,294.6	-166.1	124.6	-163.1	0.00	0.00	0.00
9,400.0	3.01	143.13	9,394.5	-170.3	127.7	-167.2	0.00	0.00	0.00
9,500.0	3.01	143.13	9,494.3	-174.5	130.9	-171.3	0.00	0.00	0.00



Planning Report

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Project:	Hat Mesa	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site:	Anderson Fed Com - Pad B	North Reference:	Grid
Well:	Anderson Fed Com 555H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 555H		
Design:	Anderson Fed Com 555H - Prelim 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,600.0	3.01	143.13	9,594.2	-178.7	134.0	-175.4	0.00	0.00	0.00
9,700.0	3.01	143.13	9,694.1	-182.9	137.2	-179.6	0.00	0.00	0.00
9,800.0	3.01	143.13	9,793.9	-187.1	140.4	-183.7	0.00	0.00	0.00
9,811.1	3.01	143.13	9,805.0	-187.6	140.7	-184.2	0.00	0.00	0.00
1st BS Sand									
9,900.0	3.01	143.13	9,893.8	-191.3	143.5	-187.8	0.00	0.00	0.00
9,955.1	3.01	143.13	9,948.8	-193.7	145.2	-190.1	0.00	0.00	0.00
Start Drop -1.00									
10,000.0	2.56	143.13	9,993.6	-195.4	146.6	-191.8	1.00	-1.00	0.00
10,100.0	1.56	143.13	10,093.6	-198.3	148.7	-194.7	1.00	-1.00	0.00
10,200.0	0.56	143.13	10,193.6	-199.8	149.8	-196.1	1.00	-1.00	0.00
10,256.4	0.00	0.00	10,250.0	-200.0	150.0	-196.3	1.00	-1.00	0.00
Start 112.5 hold at 10256.4 MD									
10,300.0	0.00	0.00	10,293.6	-200.0	150.0	-196.3	0.00	0.00	0.00
10,369.0	0.00	0.00	10,362.5	-200.0	150.0	-196.3	0.00	0.00	0.00
KOP #2 - Start Build 12.00									
10,400.0	3.72	4.74	10,393.5	-199.0	150.1	-195.3	12.00	12.00	0.00
10,409.5	4.86	4.74	10,403.0	-198.3	150.1	-194.6	12.00	12.00	0.00
2nd BS Sand									
10,500.0	15.72	4.74	10,491.9	-182.2	151.5	-178.5	12.00	12.00	0.00
10,600.0	27.72	4.74	10,584.7	-145.4	154.5	-141.6	12.00	12.00	0.00
10,700.0	39.72	4.74	10,667.7	-90.1	159.1	-86.3	12.00	12.00	0.00
10,800.0	51.72	4.74	10,737.4	-18.9	165.0	-14.9	12.00	12.00	0.00
10,900.0	63.72	4.74	10,790.7	65.2	172.0	69.3	12.00	12.00	0.00
11,000.0	75.72	4.74	10,825.3	158.5	179.7	162.8	12.00	12.00	0.00
11,100.0	87.72	4.74	10,839.6	256.9	187.9	261.4	12.00	12.00	0.00
11,119.0	90.00	4.74	10,840.0	275.8	189.5	280.3	12.00	12.00	0.00
LP - Start 6.3 hold at 11119.0 MD									
11,125.3	90.00	4.74	10,840.0	282.2	190.0	286.6	0.00	0.00	0.00
Start DLS 2.00 TFO -90.00 - Anderson Fed Com 555H LP									
11,200.0	90.00	3.25	10,840.0	356.7	195.2	361.3	2.00	0.00	-2.00
11,300.0	90.00	1.25	10,840.0	456.6	199.1	461.2	2.00	0.00	-2.00
11,380.4	90.00	359.64	10,840.0	537.0	199.8	541.7	2.00	0.00	-2.00
Start 6148.6 hold at 11380.4 MD									
11,400.0	90.00	359.64	10,840.0	556.6	199.6	561.2	0.00	0.00	0.00
11,500.0	90.00	359.64	10,840.0	656.6	199.0	661.2	0.00	0.00	0.00
11,600.0	90.00	359.64	10,840.0	756.6	198.4	761.1	0.00	0.00	0.00
11,700.0	90.00	359.64	10,840.0	856.6	197.7	861.1	0.00	0.00	0.00
11,800.0	90.00	359.64	10,840.0	956.6	197.1	961.0	0.00	0.00	0.00
11,900.0	90.00	359.64	10,840.0	1,056.6	196.5	1,061.0	0.00	0.00	0.00
12,000.0	90.00	359.64	10,840.0	1,156.6	195.9	1,160.9	0.00	0.00	0.00
12,100.0	90.00	359.64	10,840.0	1,256.6	195.2	1,260.9	0.00	0.00	0.00
12,200.0	90.00	359.64	10,840.0	1,356.5	194.6	1,360.8	0.00	0.00	0.00
12,300.0	90.00	359.64	10,840.0	1,456.5	194.0	1,460.8	0.00	0.00	0.00
12,400.0	90.00	359.64	10,840.0	1,556.5	193.3	1,560.8	0.00	0.00	0.00
12,500.0	90.00	359.64	10,840.0	1,656.5	192.7	1,660.7	0.00	0.00	0.00
12,600.0	90.00	359.64	10,840.0	1,756.5	192.1	1,760.7	0.00	0.00	0.00
12,700.0	90.00	359.64	10,840.0	1,856.5	191.5	1,860.6	0.00	0.00	0.00
12,800.0	90.00	359.64	10,840.0	1,956.5	190.8	1,960.6	0.00	0.00	0.00
12,900.0	90.00	359.64	10,840.0	2,056.5	190.2	2,060.5	0.00	0.00	0.00
13,000.0	90.00	359.64	10,840.0	2,156.5	189.6	2,160.5	0.00	0.00	0.00
13,100.0	90.00	359.64	10,840.0	2,256.5	188.9	2,260.4	0.00	0.00	0.00
13,200.0	90.00	359.64	10,840.0	2,356.5	188.3	2,360.4	0.00	0.00	0.00



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Planned Survey										
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13,300.0	90.00	359.64	10,840.0	2,456.5	187.7	2,460.3	0.00	0.00	0.00	
13,400.0	90.00	359.64	10,840.0	2,556.5	187.1	2,560.3	0.00	0.00	0.00	
13,500.0	90.00	359.64	10,840.0	2,656.5	186.4	2,660.2	0.00	0.00	0.00	
13,600.0	90.00	359.64	10,840.0	2,756.5	185.8	2,760.2	0.00	0.00	0.00	
13,700.0	90.00	359.64	10,840.0	2,856.5	185.2	2,860.2	0.00	0.00	0.00	
13,800.0	90.00	359.64	10,840.0	2,956.5	184.5	2,960.1	0.00	0.00	0.00	
13,900.0	90.00	359.64	10,840.0	3,056.5	183.9	3,060.1	0.00	0.00	0.00	
14,000.0	90.00	359.64	10,840.0	3,156.5	183.3	3,160.0	0.00	0.00	0.00	
14,100.0	90.00	359.64	10,840.0	3,256.5	182.7	3,260.0	0.00	0.00	0.00	
14,200.0	90.00	359.64	10,840.0	3,356.5	182.0	3,359.9	0.00	0.00	0.00	
14,300.0	90.00	359.64	10,840.0	3,456.5	181.4	3,459.9	0.00	0.00	0.00	
14,400.0	90.00	359.64	10,840.0	3,556.5	180.8	3,559.8	0.00	0.00	0.00	
14,500.0	90.00	359.64	10,840.0	3,656.5	180.2	3,659.8	0.00	0.00	0.00	
14,600.0	90.00	359.64	10,840.0	3,756.5	179.5	3,759.7	0.00	0.00	0.00	
14,700.0	90.00	359.64	10,840.0	3,856.5	178.9	3,859.7	0.00	0.00	0.00	
14,800.0	90.00	359.64	10,840.0	3,956.5	178.3	3,959.6	0.00	0.00	0.00	
14,900.0	90.00	359.64	10,840.0	4,056.5	177.6	4,059.6	0.00	0.00	0.00	
15,000.0	90.00	359.64	10,840.0	4,156.5	177.0	4,159.6	0.00	0.00	0.00	
15,100.0	90.00	359.64	10,840.0	4,256.5	176.4	4,259.5	0.00	0.00	0.00	
15,200.0	90.00	359.64	10,840.0	4,356.5	175.8	4,359.5	0.00	0.00	0.00	
15,300.0	90.00	359.64	10,840.0	4,456.5	175.1	4,459.4	0.00	0.00	0.00	
15,400.0	90.00	359.64	10,840.0	4,556.5	174.5	4,559.4	0.00	0.00	0.00	
15,500.0	90.00	359.64	10,840.0	4,656.5	173.9	4,659.3	0.00	0.00	0.00	
15,600.0	90.00	359.64	10,840.0	4,756.5	173.2	4,759.3	0.00	0.00	0.00	
15,700.0	90.00	359.64	10,840.0	4,856.5	172.6	4,859.2	0.00	0.00	0.00	
15,800.0	90.00	359.64	10,840.0	4,956.5	172.0	4,959.2	0.00	0.00	0.00	
15,900.0	90.00	359.64	10,840.0	5,056.5	171.4	5,059.1	0.00	0.00	0.00	
16,000.0	90.00	359.64	10,840.0	5,156.5	170.7	5,159.1	0.00	0.00	0.00	
16,100.0	90.00	359.64	10,840.0	5,256.5	170.1	5,259.0	0.00	0.00	0.00	
16,200.0	90.00	359.64	10,840.0	5,356.5	169.5	5,359.0	0.00	0.00	0.00	
16,300.0	90.00	359.64	10,840.0	5,456.5	168.8	5,459.0	0.00	0.00	0.00	
16,400.0	90.00	359.64	10,840.0	5,556.5	168.2	5,558.9	0.00	0.00	0.00	
16,500.0	90.00	359.64	10,840.0	5,656.5	167.6	5,658.9	0.00	0.00	0.00	
16,600.0	90.00	359.64	10,840.0	5,756.5	167.0	5,758.8	0.00	0.00	0.00	
16,700.0	90.00	359.64	10,840.0	5,856.5	166.3	5,858.8	0.00	0.00	0.00	
16,800.0	90.00	359.64	10,840.0	5,956.5	165.7	5,958.7	0.00	0.00	0.00	
16,900.0	90.00	359.64	10,840.0	6,056.5	165.1	6,058.7	0.00	0.00	0.00	
17,000.0	90.00	359.64	10,840.0	6,156.5	164.4	6,158.6	0.00	0.00	0.00	
17,100.0	90.00	359.64	10,840.0	6,256.5	163.8	6,258.6	0.00	0.00	0.00	
17,200.0	90.00	359.64	10,840.0	6,356.5	163.2	6,358.5	0.00	0.00	0.00	
17,300.0	90.00	359.64	10,840.0	6,456.4	162.6	6,458.5	0.00	0.00	0.00	
17,400.0	90.00	359.64	10,840.0	6,556.4	161.9	6,558.4	0.00	0.00	0.00	
17,500.0	90.00	359.64	10,840.0	6,656.4	161.3	6,658.4	0.00	0.00	0.00	
17,529.1	90.00	359.64	10,840.0	6,685.5	161.1	6,687.4	0.00	0.00	0.00	
TD at 17529.1 - Anderson Fed Com 555H BHL										



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Anderson Fed Com 555H
Company:	Advance Energy Partners	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site:	Anderson Fed Com - Pad B	North Reference:	Grid
Well:	Anderson Fed Com 555H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 555H		
Design:	Anderson Fed Com 555H - Prelim 1		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
Anderson Fed Com 555H - plan hits target center - Point	0.00	0.01	10,840.0	282.2	190.0	520,242.81	754,046.64	32° 25' 41.978 N	103° 38' 38.153 W
Anderson Fed Com 555H - plan hits target center - Point	0.00	0.00	10,840.0	6,685.5	161.1	526,646.15	754,017.75	32° 26' 45.341 N	103° 38' 38.008 W

Casing Points				
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
	11,150.0	LP	5-1/2	5-1/2

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,193.0	1,193.0	Rustler		0.00	
4,771.0	4,771.0	Base of Limestone		0.00	
8,423.2	8,419.0	Lower Brushy		0.00	
8,942.9	8,938.0	Avalon		0.00	
9,811.1	9,805.0	1st BS Sand		0.00	
10,409.5	10,403.0	2nd BS Sand		0.00	

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
5,200.0	5,200.0	0.0	0.0	KOP - Start Build 1.00
5,501.4	5,501.2	-6.3	4.8	Start 4453.7 hold at 5501.4 MD
9,955.1	9,948.8	-193.7	145.2	Start Drop -1.00
10,256.4	10,250.0	-200.0	150.0	Start 112.5 hold at 10256.4 MD
10,369.0	10,362.5	-200.0	150.0	KOP #2 - Start Build 12.00
11,119.0	10,840.0	275.8	189.5	LP - Start 6.3 hold at 11119.0 MD
11,125.3	10,840.0	282.2	190.0	Start DLS 2.00 TFO -90.00
11,380.4	10,840.0	537.0	199.8	Start 6148.6 hold at 11380.4 MD
17,529.1	10,840.0	6,685.5	161.1	TD at 17529.1



Advance Energy Partners

Hat Mesa

Anderson Fed Com - Pad B

Anderson Fed Com 555H

Anderson Fed Com 555H

Anderson Fed Com 555H - Prelim 1

Anticollision Report

16 June, 2021



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 555H
Project:	Hat Mesa	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 555H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 555H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 555H - Prelim 1	Offset TVD Reference:	Offset Datum

Reference	Anderson Fed Com 555H - Prelim 1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 1,000.0usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.79 Sigma	Casing Method:	Not applied

Survey Tool Program	Date 6/10/2021				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	17,529.1	Anderson Fed Com 555H - Prelim 1 (Ande	MWD+HRGM	OWSG MWD + HRGM	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Anderson Fed Com - Pad B						
Anderson Fed Com 503H - Anderson Fed Com 503H - A	5,449.3	5,450.0	30.0	3.0	1.113	Level 3, CC
Anderson Fed Com 503H - Anderson Fed Com 503H - A	9,900.0	9,898.4	48.1	-2.1	0.958	Level 3, ES, SF
Anderson Fed Com 507H - Anderson Fed Com 507H - A	5,000.0	4,996.5	131.1	93.4	3.477	CC, ES
Anderson Fed Com 507H - Anderson Fed Com 507H - A	5,100.0	5,094.4	131.9	93.6	3.440	SF
Anderson Fed Com 556H - Anderson Fed Com 556H - A	5,620.4	5,619.7	28.6	1.0	1.037	Level 3, CC, ES, SF
Anderson Fed Com 603H - Anderson Fed Com 603H - A	5,937.5	5,936.3	85.0	56.6	2.996	CC, ES
Anderson Fed Com 603H - Anderson Fed Com 603H - A	6,000.0	5,998.1	85.2	56.8	2.995	SF
Anderson Fed Com 703H - Anderson Fed Com 703H - A	5,789.1	5,787.6	56.9	29.0	2.036	CC
Anderson Fed Com 703H - Anderson Fed Com 703H - A	5,800.0	5,798.5	56.9	28.9	2.035	ES, SF

Offset Design:	Anderson Fed Com - Pad B - Anderson Fed Com 503H - Anderson Fed Com 503H - Anderson Fed Com 503H - Prelim 1												Offset Site Error:	0.0 usft
Survey Program:	0-MWD+HRGM												Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		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)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-90.37	-0.2	-33.9	33.9					
100.0	100.0	100.0	100.0	0.5	0.5	-90.37	-0.2	-33.9	33.9	32.9	1.07	31.745		
200.0	200.0	200.0	200.0	1.7	1.7	-90.37	-0.2	-33.9	33.9	30.5	3.43	9.901		
300.0	300.0	300.0	300.0	2.4	2.4	-90.37	-0.2	-33.9	33.9	29.1	4.83	7.033		
400.0	400.0	400.0	400.0	3.0	3.0	-90.37	-0.2	-33.9	33.9	28.0	5.91	5.742		
500.0	500.0	500.0	500.0	3.4	3.4	-90.37	-0.2	-33.9	33.9	27.1	6.83	4.968		
600.0	600.0	600.0	600.0	3.8	3.8	-90.37	-0.2	-33.9	33.9	26.3	7.65	4.436		
700.0	700.0	700.0	700.0	4.2	4.2	-90.37	-0.2	-33.9	33.9	25.5	8.40	4.043		
800.0	800.0	800.0	800.0	4.5	4.5	-90.37	-0.2	-33.9	33.9	24.9	9.09	3.736		
900.0	900.0	900.0	900.0	4.9	4.9	-90.37	-0.2	-33.9	33.9	24.2	9.73	3.488		
1,000.0	1,000.0	1,000.0	1,000.0	5.2	5.2	-90.37	-0.2	-33.9	33.9	23.6	10.34	3.282		
1,100.0	1,100.0	1,100.0	1,100.0	5.5	5.5	-90.37	-0.2	-33.9	33.9	23.0	10.92	3.107		
1,200.0	1,200.0	1,200.0	1,200.0	5.7	5.7	-90.37	-0.2	-33.9	33.9	22.5	11.48	2.956		
1,300.0	1,300.0	1,300.0	1,300.0	6.0	6.0	-90.37	-0.2	-33.9	33.9	21.9	12.02	2.825		
1,400.0	1,400.0	1,400.0	1,400.0	6.3	6.3	-90.37	-0.2	-33.9	33.9	21.4	12.53	2.708		
1,500.0	1,500.0	1,500.0	1,500.0	6.5	6.5	-90.37	-0.2	-33.9	33.9	20.9	13.03	2.604		
1,600.0	1,600.0	1,600.0	1,600.0	6.8	6.8	-90.37	-0.2	-33.9	33.9	20.4	13.52	2.511		
1,700.0	1,700.0	1,700.0	1,700.0	7.0	7.0	-90.37	-0.2	-33.9	33.9	20.0	13.99	2.426		

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 555H
Project:	Hat Mesa	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 555H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 555H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 555H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 503H - Anderson Fed Com 503H - Anderson Fed Com 503H - Prelim 1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
1,800.0	1,800.0	1,800.0	1,800.0	7.2	7.2	-90.37	-0.2	-33.9	33.9	19.5	14.45	2.349	
1,900.0	1,900.0	1,900.0	1,900.0	7.5	7.5	-90.37	-0.2	-33.9	33.9	19.0	14.90	2.278	
2,000.0	2,000.0	2,000.0	2,000.0	7.7	7.7	-90.37	-0.2	-33.9	33.9	18.6	15.34	2.213	
2,100.0	2,100.0	2,100.0	2,100.0	7.9	7.9	-90.37	-0.2	-33.9	33.9	18.2	15.77	2.152	
2,200.0	2,200.0	2,200.0	2,200.0	8.1	8.1	-90.37	-0.2	-33.9	33.9	17.7	16.19	2.096	
2,300.0	2,300.0	2,300.0	2,300.0	8.3	8.3	-90.37	-0.2	-33.9	33.9	17.3	16.61	2.044	
2,400.0	2,400.0	2,400.0	2,400.0	8.5	8.5	-90.37	-0.2	-33.9	33.9	16.9	17.02	1.995	
2,500.0	2,500.0	2,500.0	2,500.0	8.7	8.7	-90.37	-0.2	-33.9	33.9	16.5	17.42	1.949	
2,600.0	2,600.0	2,600.0	2,600.0	8.9	8.9	-90.37	-0.2	-33.9	33.9	16.1	17.81	1.905	
2,700.0	2,700.0	2,700.0	2,700.0	9.1	9.1	-90.37	-0.2	-33.9	33.9	15.7	18.20	1.865	
2,800.0	2,800.0	2,800.0	2,800.0	9.3	9.3	-90.37	-0.2	-33.9	33.9	15.4	18.59	1.826	
2,900.0	2,900.0	2,900.0	2,900.0	9.5	9.5	-90.37	-0.2	-33.9	33.9	15.0	18.97	1.790	
3,000.0	3,000.0	3,000.0	3,000.0	9.7	9.7	-90.37	-0.2	-33.9	33.9	14.6	19.34	1.755	
3,100.0	3,100.0	3,100.0	3,100.0	9.9	9.9	-90.37	-0.2	-33.9	33.9	14.2	19.71	1.722	
3,200.0	3,200.0	3,200.0	3,200.0	10.0	10.0	-90.37	-0.2	-33.9	33.9	13.9	20.08	1.691	
3,300.0	3,300.0	3,300.0	3,300.0	10.2	10.2	-90.37	-0.2	-33.9	33.9	13.5	20.44	1.661	
3,400.0	3,400.0	3,400.0	3,400.0	10.4	10.4	-90.37	-0.2	-33.9	33.9	13.1	20.79	1.632	
3,500.0	3,500.0	3,500.0	3,500.0	10.6	10.6	-90.37	-0.2	-33.9	33.9	12.8	21.15	1.605	
3,600.0	3,600.0	3,600.0	3,600.0	10.7	10.7	-90.37	-0.2	-33.9	33.9	12.4	21.50	1.579	
3,700.0	3,700.0	3,700.0	3,700.0	10.9	10.9	-90.37	-0.2	-33.9	33.9	12.1	21.85	1.554	
3,800.0	3,800.0	3,800.0	3,800.0	11.1	11.1	-90.37	-0.2	-33.9	33.9	11.7	22.19	1.529	
3,900.0	3,900.0	3,900.0	3,900.0	11.3	11.3	-90.37	-0.2	-33.9	33.9	11.4	22.53	1.506	
4,000.0	4,000.0	4,000.0	4,000.0	11.4	11.4	-90.37	-0.2	-33.9	33.9	11.1	22.87	1.484 Level 3	
4,100.0	4,100.0	4,100.0	4,100.0	11.6	11.6	-90.37	-0.2	-33.9	33.9	10.7	23.21	1.463 Level 3	
4,200.0	4,200.0	4,200.0	4,200.0	11.8	11.8	-90.37	-0.2	-33.9	33.9	10.4	23.54	1.442 Level 3	
4,300.0	4,300.0	4,300.0	4,300.0	11.9	11.9	-90.37	-0.2	-33.9	33.9	10.1	23.87	1.422 Level 3	
4,400.0	4,400.0	4,400.0	4,400.0	12.1	12.1	-90.37	-0.2	-33.9	33.9	9.7	24.20	1.403 Level 3	
4,500.0	4,500.0	4,500.0	4,500.0	12.3	12.3	-90.37	-0.2	-33.9	33.9	9.4	24.53	1.384 Level 3	
4,600.0	4,600.0	4,600.0	4,600.0	12.4	12.4	-90.37	-0.2	-33.9	33.9	9.1	24.85	1.366 Level 3	
4,700.0	4,700.0	4,700.0	4,700.0	12.6	12.6	-90.37	-0.2	-33.9	33.9	8.8	25.17	1.348 Level 3	
4,800.0	4,800.0	4,800.0	4,800.0	12.7	12.7	-90.37	-0.2	-33.9	33.9	8.4	25.49	1.331 Level 3	
4,900.0	4,900.0	4,900.0	4,900.0	12.9	12.9	-90.37	-0.2	-33.9	33.9	8.1	25.81	1.315 Level 3	
5,000.0	5,000.0	5,000.0	5,000.0	13.1	13.1	-90.37	-0.2	-33.9	33.9	7.8	26.13	1.299 Level 3	
5,100.0	5,100.0	5,100.3	5,100.3	13.2	13.2	-91.63	-1.0	-33.5	33.5	7.1	26.37	1.270 Level 3	
5,200.0	5,200.0	5,200.6	5,200.5	13.4	13.2	-95.64	-3.2	-32.0	32.2	5.6	26.59	1.210 Level 3	
5,300.0	5,300.0	5,300.7	5,300.6	13.5	13.3	115.39	-6.8	-29.6	30.8	4.0	26.75	1.151 Level 3	
5,400.0	5,400.0	5,400.7	5,400.4	13.5	13.4	110.28	-11.4	-26.7	30.0	3.2	26.85	1.119 Level 3	
5,449.3	5,449.2	5,450.0	5,449.6	13.6	13.5	108.84	-13.6	-25.2	30.0	3.0	26.92	1.113 Level 3, CC	
5,501.4	5,501.2	5,502.1	5,501.6	13.6	13.5	108.15	-16.0	-23.7	30.0	3.0	26.99	1.113 Level 3	
5,600.0	5,599.7	5,600.7	5,600.1	13.7	13.7	107.66	-20.5	-20.8	30.3	3.2	27.14	1.118 Level 3	
5,700.0	5,699.6	5,700.7	5,700.0	13.9	13.8	107.17	-25.0	-17.8	30.6	3.3	27.29	1.123 Level 3	
5,800.0	5,799.4	5,800.7	5,799.8	14.0	14.0	106.69	-29.6	-14.9	30.9	3.5	27.44	1.127 Level 3	
5,900.0	5,899.3	5,900.7	5,899.7	14.2	14.2	106.22	-34.1	-11.9	31.2	3.6	27.60	1.132 Level 3	
6,000.0	5,999.2	6,000.7	5,999.5	14.3	14.4	105.76	-38.7	-8.9	31.5	3.8	27.76	1.136 Level 3	
6,100.0	6,099.0	6,100.7	6,099.4	14.5	14.6	105.31	-43.2	-6.0	31.9	3.9	27.93	1.141 Level 3	
6,200.0	6,198.9	6,200.7	6,199.2	14.7	14.8	104.87	-47.8	-3.0	32.2	4.1	28.09	1.145 Level 3	
6,300.0	6,298.8	6,300.7	6,299.1	14.9	15.1	104.44	-52.3	-0.1	32.5	4.2	28.26	1.149 Level 3	
6,400.0	6,398.6	6,400.7	6,398.9	15.1	15.3	104.01	-56.9	2.9	32.8	4.4	28.44	1.153 Level 3	
6,500.0	6,498.5	6,500.7	6,498.8	15.4	15.6	103.59	-61.4	5.8	33.1	4.5	28.61	1.157 Level 3	
6,600.0	6,598.3	6,600.7	6,598.6	15.6	15.9	103.18	-66.0	8.8	33.4	4.6	28.79	1.161 Level 3	
6,700.0	6,698.2	6,700.7	6,698.5	15.9	16.2	102.78	-70.5	11.8	33.7	4.8	28.97	1.165 Level 3	
6,800.0	6,798.1	6,800.7	6,798.3	16.1	16.5	102.39	-75.1	14.7	34.1	4.9	29.15	1.169 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 555H
Project:	Hat Mesa	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 555H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 555H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 555H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 503H - Anderson Fed Com 503H - Anderson Fed Com 503H - Prelim 1													Offset Site Error: 0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
6,900.0	6,897.9	6,900.7	6,898.2	16.4	16.8	102.00	-79.6	17.7	34.4	5.1	29.33	1.172	Level 3
7,000.0	6,997.8	7,000.7	6,998.0	16.7	17.1	101.62	-84.2	20.6	34.7	5.2	29.51	1.176	Level 3
7,100.0	7,097.7	7,100.7	7,097.9	17.0	17.4	101.25	-88.7	23.6	35.0	5.3	29.70	1.180	Level 3
7,200.0	7,197.5	7,200.7	7,197.7	17.3	17.7	100.88	-93.3	26.5	35.4	5.5	29.89	1.183	Level 3
7,300.0	7,297.4	7,300.7	7,297.6	17.6	18.0	100.53	-97.8	29.5	35.7	5.6	30.08	1.187	Level 3
7,400.0	7,397.2	7,400.7	7,397.5	17.9	18.4	100.17	-102.4	32.5	36.0	5.8	30.27	1.190	Level 3
7,500.0	7,497.1	7,500.7	7,497.3	18.3	18.7	99.83	-106.9	35.4	36.4	5.9	30.46	1.194	Level 3
7,600.0	7,597.0	7,600.7	7,597.2	18.6	19.1	99.49	-111.5	38.4	36.7	6.0	30.65	1.197	Level 3
7,700.0	7,696.8	7,700.7	7,697.0	18.9	19.4	99.15	-116.0	41.3	37.0	6.2	30.85	1.200	Level 3
7,800.0	7,796.7	7,800.7	7,796.9	19.3	19.8	98.83	-120.6	44.3	37.4	6.3	31.04	1.203	Level 3
7,900.0	7,896.5	7,900.7	7,896.7	19.6	20.2	98.50	-125.1	47.3	37.7	6.5	31.24	1.207	Level 3
8,000.0	7,996.4	8,000.7	7,996.6	20.0	20.5	98.19	-129.7	50.2	38.0	6.6	31.44	1.210	Level 3
8,100.0	8,096.3	8,100.7	8,096.4	20.3	20.9	97.88	-134.2	53.2	38.4	6.7	31.64	1.213	Level 3
8,200.0	8,196.1	8,200.7	8,196.3	20.7	21.3	97.57	-138.8	56.1	38.7	6.9	31.84	1.216	Level 3
8,300.0	8,296.0	8,300.7	8,296.1	21.1	21.7	97.27	-143.3	59.1	39.0	7.0	32.04	1.219	Level 3
8,400.0	8,395.9	8,400.7	8,396.0	21.4	22.1	96.98	-147.9	62.0	39.4	7.1	32.25	1.221	Level 3
8,500.0	8,495.7	8,500.7	8,495.8	21.8	22.5	96.69	-152.4	65.0	39.7	7.3	32.46	1.224	Level 3
8,600.0	8,595.6	8,600.7	8,595.7	22.2	22.9	96.41	-157.0	68.0	40.1	7.4	32.66	1.227	Level 3
8,700.0	8,695.4	8,700.7	8,695.5	22.6	23.3	96.13	-161.5	70.9	40.4	7.5	32.87	1.230	Level 3
8,800.0	8,795.3	8,800.7	8,795.4	23.0	23.7	95.85	-166.1	73.9	40.8	7.7	33.08	1.232	Level 3
8,900.0	8,895.2	8,900.7	8,895.2	23.4	24.1	95.58	-170.6	76.8	41.1	7.8	33.30	1.235	Level 3
9,000.0	8,995.0	9,000.7	8,995.1	23.8	24.5	95.31	-175.2	79.8	41.5	7.9	33.51	1.237	Level 3
9,100.0	9,094.9	9,100.7	9,094.9	24.2	24.9	95.05	-179.7	82.7	41.8	8.1	33.73	1.240	Level 3
9,200.0	9,194.7	9,200.7	9,194.8	24.6	25.3	94.80	-184.3	85.7	42.2	8.2	33.95	1.242	Level 3
9,300.0	9,294.6	9,300.7	9,294.6	25.0	25.7	94.54	-188.8	88.7	42.5	8.3	34.17	1.244	Level 3
9,400.0	9,394.5	9,400.7	9,394.5	25.4	26.1	94.30	-193.4	91.6	42.9	8.5	34.38	1.247	Level 3
9,500.0	9,494.3	9,500.7	9,494.4	25.8	26.5	95.34	-197.1	94.0	43.2	8.6	34.63	1.248	Level 3
9,600.0	9,594.2	9,600.6	9,594.3	26.2	26.9	98.64	-199.4	95.5	43.7	8.6	35.07	1.247	Level 3
9,700.0	9,694.1	9,700.4	9,694.1	26.6	27.1	104.06	-200.2	96.1	44.6	8.7	35.97	1.241	Level 3
9,800.0	9,793.9	9,802.7	9,796.0	27.0	26.9	117.25	-194.6	96.9	44.2	4.9	39.30	1.124	Level 3
9,833.6	9,827.5	9,836.1	9,828.9	27.2	26.9	127.17	-188.4	97.8	43.7	1.2	42.47	1.028	Level 3
9,900.0	9,893.8	9,898.4	9,888.5	27.5	26.7	152.19	-170.7	100.3	48.1	-2.1	50.22	0.958	Level 3, ES, SF
9,955.1	9,948.8	9,945.5	9,931.8	27.7	26.5	171.04	-152.4	103.0	61.4	8.1	53.34	1.152	Level 3
10,000.0	9,993.6	9,980.7	9,962.9	27.9	26.4	-177.82	-136.0	105.4	78.6	24.9	53.62	1.465	Level 3
10,100.0	10,093.6	10,050.0	10,020.0	28.2	26.2	-163.30	-97.3	111.0	130.5	77.8	52.72	2.476	
10,200.0	10,193.6	10,104.7	10,060.8	28.6	26.0	-156.55	-61.2	116.2	194.8	142.5	52.35	3.722	
10,256.4	10,250.0	10,131.6	10,079.2	28.7	26.0	-11.08	-41.9	119.0	234.8	182.5	52.36	4.485	
10,300.0	10,293.6	10,150.0	10,091.2	28.7	25.9	-9.56	-28.0	121.0	267.2	214.7	52.46	5.093	
10,369.0	10,362.5	10,175.0	10,106.5	28.7	25.9	-7.77	-8.5	123.9	320.8	268.0	52.76	6.080	
10,375.0	10,368.6	10,175.0	10,106.5	28.7	25.9	-12.31	-8.5	123.9	325.6	272.7	52.83	6.163	
10,400.0	10,393.5	10,187.8	10,114.0	28.6	25.9	-10.82	1.8	125.4	345.0	292.2	52.85	6.529	
10,425.0	10,418.4	10,200.0	10,120.9	28.6	25.9	-9.63	11.8	126.8	364.1	311.2	52.90	6.882	
10,450.0	10,443.2	10,206.4	10,124.3	28.5	25.9	-8.86	17.0	127.6	382.6	329.5	53.09	7.206	
10,475.0	10,467.7	10,215.8	10,129.4	28.4	25.8	-8.09	25.0	128.7	400.6	347.3	53.23	7.524	
10,500.0	10,491.9	10,225.0	10,134.1	28.3	25.8	-7.43	32.7	129.9	418.0	364.6	53.39	7.828	
10,525.0	10,515.8	10,235.1	10,139.1	28.3	25.8	-6.84	41.4	131.1	434.8	381.3	53.55	8.121	
10,550.0	10,539.3	10,250.0	10,146.2	28.2	25.8	-6.22	54.4	133.0	451.2	397.5	53.62	8.414	
10,575.0	10,562.2	10,250.0	10,146.2	28.1	25.8	-5.97	54.4	133.0	466.8	412.9	53.98	8.648	
10,600.0	10,584.7	10,264.7	10,152.8	28.0	25.8	-5.48	67.4	134.9	481.8	427.8	54.08	8.909	
10,625.0	10,606.5	10,275.0	10,157.1	27.9	25.8	-5.13	76.6	136.2	496.3	442.0	54.27	9.144	
10,650.0	10,627.6	10,284.9	10,161.1	27.9	25.8	-4.81	85.6	137.5	510.1	455.6	54.48	9.363	
10,675.0	10,648.0	10,300.0	10,166.9	27.8	25.8	-4.47	99.4	139.5	523.3	468.7	54.61	9.583	

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 555H
Project:	Hat Mesa	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 555H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 555H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 555H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 503H - Anderson Fed Com 503H - Anderson Fed Com 503H - Prelim 1											Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM											Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Minimum	Separation	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	
10,700.0	10,667.7	10,300.0	10,166.9	27.7	25.8	-4.33	99.4	139.5	535.8	480.8	54.98	9.745
10,725.0	10,686.5	10,315.6	10,172.4	27.6	25.8	-4.04	113.9	141.6	547.6	492.5	55.12	9.934
10,750.0	10,704.4	10,325.0	10,175.4	27.6	25.8	-3.84	122.7	142.9	558.8	503.4	55.36	10.093
10,775.0	10,721.4	10,336.3	10,178.9	27.5	25.8	-3.64	133.3	144.5	569.2	513.7	55.57	10.243
10,800.0	10,737.4	10,350.0	10,182.7	27.5	25.9	-3.44	146.3	146.3	579.0	523.3	55.76	10.384
10,825.0	10,752.3	10,357.2	10,184.6	27.4	25.9	-3.31	153.2	147.3	588.1	532.1	56.04	10.494
10,850.0	10,766.2	10,367.7	10,187.1	27.4	25.9	-3.17	163.3	148.8	596.5	540.2	56.28	10.598
10,875.0	10,779.0	10,375.0	10,188.7	27.4	25.9	-3.06	170.3	149.8	604.2	547.6	56.56	10.682
10,900.0	10,790.7	10,388.8	10,191.5	27.3	25.9	-2.91	183.7	151.8	611.1	554.3	56.76	10.766
10,925.0	10,801.1	10,400.0	10,193.5	27.3	25.9	-2.80	194.6	153.4	617.3	560.3	57.00	10.830
10,950.0	10,810.4	10,410.0	10,195.0	27.3	26.0	-2.70	204.3	154.8	622.8	565.5	57.25	10.878
10,975.0	10,818.5	10,425.0	10,197.0	27.3	26.0	-2.57	219.1	156.9	627.6	570.1	57.46	10.923
11,000.0	10,825.3	10,425.0	10,197.0	27.4	26.0	-2.55	219.1	156.9	631.6	573.8	57.79	10.929
11,025.0	10,830.8	10,441.8	10,198.6	27.4	26.1	-2.43	235.7	159.3	634.8	576.8	57.99	10.948
11,050.0	10,835.0	10,450.0	10,199.1	27.5	26.1	-2.37	243.8	160.5	637.4	579.1	58.25	10.943
11,075.0	10,838.0	10,463.1	10,199.7	27.5	26.1	-2.28	256.7	162.4	639.1	580.7	58.47	10.931
11,100.0	10,839.6	10,475.0	10,200.0	27.6	26.2	-2.21	268.5	164.1	640.2	581.5	58.70	10.905
11,119.0	10,840.0	10,485.9	10,200.0	27.7	26.2	-2.15	279.3	165.6	640.5	581.6	58.85	10.883
11,125.3	10,840.0	10,492.2	10,200.0	27.7	26.2	-2.12	285.5	166.5	640.4	581.6	58.88	10.877
11,200.0	10,840.0	10,566.2	10,200.0	28.0	26.6	-1.71	358.9	176.1	640.3	581.0	59.26	10.805
11,300.0	10,840.0	10,665.5	10,200.0	28.5	27.2	-1.17	457.7	186.0	640.1	580.3	59.85	10.696
11,380.4	10,840.0	10,745.5	10,200.0	29.0	27.7	-0.74	537.5	191.5	640.1	579.7	60.39	10.599
11,400.0	10,840.0	10,764.9	10,200.0	29.1	27.9	-0.64	556.9	192.5	640.0	579.5	60.53	10.575
11,500.0	10,840.0	10,864.7	10,200.0	29.8	28.7	-0.31	656.6	195.5	640.0	578.8	61.25	10.448
11,600.0	10,840.0	10,964.6	10,200.0	30.6	29.6	-0.26	756.5	195.4	640.0	578.0	62.02	10.319
11,621.7	10,840.0	10,986.4	10,200.0	30.8	29.8	-0.26	778.3	195.3	640.0	577.8	62.19	10.290
11,700.0	10,840.0	11,064.6	10,200.0	31.5	30.6	-0.26	856.5	194.9	640.0	577.2	62.85	10.183
11,800.0	10,840.0	11,164.6	10,200.0	32.5	31.6	-0.25	956.5	194.3	640.0	576.3	63.75	10.040
11,900.0	10,840.0	11,264.6	10,200.0	33.7	32.8	-0.25	1,056.5	193.7	640.0	575.3	64.71	9.891
12,000.0	10,840.0	11,364.6	10,200.0	34.9	34.1	-0.24	1,156.5	193.1	640.0	574.3	65.73	9.738
12,100.0	10,840.0	11,464.6	10,200.0	36.2	35.4	-0.24	1,256.5	192.5	640.0	573.2	66.80	9.581
12,200.0	10,840.0	11,564.6	10,200.0	37.6	36.9	-0.24	1,356.5	192.0	640.0	572.1	67.93	9.422
12,300.0	10,840.0	11,664.6	10,200.0	39.1	38.4	-0.23	1,456.5	191.4	640.0	570.9	69.11	9.261
12,400.0	10,840.0	11,764.6	10,200.0	40.6	39.9	-0.23	1,556.5	190.8	640.0	569.7	70.34	9.099
12,500.0	10,840.0	11,864.6	10,200.0	42.2	41.5	-0.22	1,656.5	190.2	640.0	568.4	71.61	8.937
12,600.0	10,840.0	11,964.6	10,200.0	43.8	43.2	-0.22	1,756.5	189.7	640.0	567.1	72.93	8.775
12,700.0	10,840.0	12,064.6	10,200.0	45.4	44.8	-0.21	1,856.5	189.1	640.0	565.7	74.29	8.615
12,800.0	10,840.0	12,164.6	10,200.0	47.1	46.5	-0.21	1,956.5	188.5	640.0	564.3	75.69	8.456
12,900.0	10,840.0	12,264.6	10,200.0	48.8	48.3	-0.20	2,056.5	187.9	640.0	562.9	77.12	8.298
13,000.0	10,840.0	12,364.6	10,200.0	50.6	50.0	-0.20	2,156.5	187.3	640.0	561.4	78.59	8.143
13,100.0	10,840.0	12,464.6	10,200.0	52.4	51.8	-0.20	2,256.5	186.8	640.0	559.9	80.10	7.990
13,200.0	10,840.0	12,564.6	10,200.0	54.1	53.6	-0.19	2,356.5	186.2	640.0	558.4	81.63	7.840
13,300.0	10,840.0	12,664.6	10,200.0	55.9	55.4	-0.19	2,456.5	185.6	640.0	556.8	83.19	7.693
13,400.0	10,840.0	12,764.6	10,200.0	57.8	57.3	-0.18	2,556.5	185.0	640.0	555.2	84.79	7.548
13,500.0	10,840.0	12,864.6	10,200.0	59.6	59.1	-0.18	2,656.5	184.4	640.0	553.6	86.40	7.407
13,600.0	10,840.0	12,964.6	10,200.0	61.4	61.0	-0.17	2,756.5	183.9	640.0	552.0	88.05	7.269
13,700.0	10,840.0	13,064.6	10,200.0	63.3	62.8	-0.17	2,856.5	183.3	640.0	550.3	89.71	7.134
13,800.0	10,840.0	13,164.6	10,200.0	65.2	64.7	-0.17	2,956.5	182.7	640.0	548.6	91.40	7.002
13,900.0	10,840.0	13,264.6	10,200.0	67.0	66.6	-0.16	3,056.5	182.1	640.0	546.9	93.11	6.874
14,000.0	10,840.0	13,364.6	10,200.0	68.9	68.5	-0.16	3,156.5	181.5	640.0	545.2	94.84	6.748
14,100.0	10,840.0	13,464.6	10,200.0	70.8	70.4	-0.15	3,256.5	181.0	640.0	543.4	96.58	6.626
14,200.0	10,840.0	13,564.6	10,200.0	72.7	72.3	-0.15	3,356.5	180.4	640.0	541.7	98.35	6.507

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 555H
Project:	Hat Mesa	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 555H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 555H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 555H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 503H - Anderson Fed Com 503H - Anderson Fed Com 503H - Prelim 1												Offset Site Error: 0.0 usft	
Survey Program: 0-MWD+HRGM				Rule Assigned:								Offset Well Error: 0.0 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		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)			Minimum Separation (usft)
14,300.0	10,840.0	13,664.6	10,200.0	74.6	74.2	-0.14	3,456.5	179.8	640.0	539.9	100.13	6.392	
14,400.0	10,840.0	13,764.6	10,200.0	76.5	76.1	-0.14	3,556.5	179.2	640.0	538.1	101.93	6.279	
14,500.0	10,840.0	13,864.6	10,200.0	78.4	78.0	-0.13	3,656.5	178.7	640.0	536.3	103.74	6.169	
14,600.0	10,840.0	13,964.6	10,200.0	80.4	80.0	-0.13	3,756.5	178.1	640.0	534.4	105.57	6.062	
14,700.0	10,840.0	14,064.6	10,200.0	82.3	81.9	-0.13	3,856.5	177.5	640.0	532.6	107.41	5.958	
14,800.0	10,840.0	14,164.6	10,200.0	84.2	83.8	-0.12	3,956.5	176.9	640.0	530.7	109.26	5.857	
14,900.0	10,840.0	14,264.6	10,200.0	86.2	85.8	-0.12	4,056.5	176.3	640.0	528.9	111.13	5.759	
15,000.0	10,840.0	14,364.6	10,200.0	88.1	87.7	-0.11	4,156.5	175.8	640.0	527.0	113.01	5.663	
15,100.0	10,840.0	14,464.6	10,200.0	90.0	89.7	-0.11	4,256.5	175.2	640.0	525.1	114.90	5.570	
15,200.0	10,840.0	14,564.6	10,200.0	92.0	91.6	-0.10	4,356.5	174.6	640.0	523.2	116.80	5.480	
15,300.0	10,840.0	14,664.6	10,200.0	93.9	93.6	-0.10	4,456.5	174.0	640.0	521.3	118.71	5.391	
15,400.0	10,840.0	14,764.6	10,200.0	95.9	95.5	-0.09	4,556.5	173.4	640.0	519.4	120.63	5.306	
15,500.0	10,840.0	14,864.6	10,200.0	97.8	97.5	-0.09	4,656.5	172.9	640.0	517.4	122.55	5.222	
15,600.0	10,840.0	14,964.6	10,200.0	99.8	99.5	-0.09	4,756.5	172.3	640.0	515.5	124.49	5.141	
15,700.0	10,840.0	15,064.6	10,200.0	101.8	101.4	-0.08	4,856.5	171.7	640.0	513.6	126.44	5.062	
15,800.0	10,840.0	15,164.6	10,200.0	103.7	103.4	-0.08	4,956.5	171.1	640.0	511.6	128.39	4.985	
15,900.0	10,840.0	15,264.6	10,200.0	105.7	105.4	-0.07	5,056.5	170.5	640.0	509.7	130.35	4.910	
16,000.0	10,840.0	15,364.6	10,200.0	107.7	107.3	-0.07	5,156.5	170.0	640.0	507.7	132.32	4.837	
16,100.0	10,840.0	15,464.6	10,200.0	109.6	109.3	-0.06	5,256.5	169.4	640.0	505.7	134.29	4.766	
16,200.0	10,840.0	15,564.6	10,200.0	111.6	111.3	-0.06	5,356.5	168.8	640.0	503.7	136.27	4.696	
16,300.0	10,840.0	15,664.6	10,200.0	113.6	113.2	-0.05	5,456.5	168.2	640.0	501.7	138.26	4.629	
16,400.0	10,840.0	15,764.6	10,200.0	115.5	115.2	-0.05	5,556.5	167.7	640.0	499.7	140.26	4.563	
16,500.0	10,840.0	15,864.6	10,200.0	117.5	117.2	-0.05	5,656.5	167.1	640.0	497.7	142.26	4.499	
16,600.0	10,840.0	15,964.6	10,200.0	119.5	119.2	-0.04	5,756.5	166.5	640.0	495.7	144.26	4.436	
16,700.0	10,840.0	16,064.6	10,200.0	121.5	121.1	-0.04	5,856.5	165.9	640.0	493.7	146.27	4.375	
16,800.0	10,840.0	16,164.6	10,200.0	123.4	123.1	-0.03	5,956.5	165.3	640.0	491.7	148.29	4.316	
16,900.0	10,840.0	16,264.6	10,200.0	125.4	125.1	-0.03	6,056.5	164.8	640.0	489.7	150.31	4.258	
17,000.0	10,840.0	16,364.6	10,200.0	127.4	127.1	-0.02	6,156.5	164.2	640.0	487.7	152.33	4.201	
17,100.0	10,840.0	16,464.6	10,200.0	129.4	129.1	-0.02	6,256.5	163.6	640.0	485.6	154.36	4.146	
17,200.0	10,840.0	16,564.6	10,200.0	131.4	131.1	-0.01	6,356.4	163.0	640.0	483.6	156.40	4.092	
17,300.0	10,840.0	16,664.6	10,200.0	133.3	133.0	-0.01	6,456.4	162.4	640.0	481.6	158.44	4.039	
17,400.0	10,840.0	16,764.6	10,200.0	135.3	135.0	-0.01	6,556.4	161.9	640.0	479.5	160.48	3.988	
17,500.0	10,840.0	16,864.6	10,200.0	137.3	137.0	0.00	6,656.4	161.3	640.0	477.5	162.52	3.938	
17,529.1	10,840.0	16,893.7	10,200.0	137.9	137.6	0.00	6,685.5	161.1	640.0	476.9	163.12	3.924	

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 555H
Project:	Hat Mesa	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 555H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 555H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 555H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 507H - Anderson Fed Com 507H - Anderson Fed Com 507H - Prelim 1											Offset Site Error:	0.0 usft
Survey Program: 0-B001Mb_MWD+HRGM											Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor
0.0	0.0	0.0	0.0	0.0	0.0	89.31	1.6	131.1	131.2			
100.0	100.0	96.5	96.5	0.5	0.2	89.31	1.6	131.1	131.1	130.4	0.70	188.023
200.0	200.0	196.5	196.5	1.7	0.7	89.31	1.6	131.1	131.1	128.8	2.37	55.441
300.0	300.0	296.5	296.5	2.4	1.2	89.31	1.6	131.1	131.1	127.6	3.56	36.790
400.0	400.0	396.5	396.5	3.0	1.7	89.31	1.6	131.1	131.1	126.5	4.61	28.466
500.0	500.0	496.5	496.5	3.4	2.2	89.31	1.6	131.1	131.1	125.6	5.57	23.553
600.0	600.0	596.5	596.5	3.8	2.7	89.31	1.6	131.1	131.1	124.7	6.48	20.247
700.0	700.0	696.5	696.5	4.2	3.2	89.31	1.6	131.1	131.1	123.8	7.35	17.843
800.0	800.0	796.5	796.5	4.5	3.7	89.31	1.6	131.1	131.1	122.9	8.19	16.003
900.0	900.0	896.5	896.5	4.9	4.2	89.31	1.6	131.1	131.1	122.1	9.02	14.542
1,000.0	1,000.0	996.5	996.5	5.2	4.7	89.31	1.6	131.1	131.1	121.3	9.82	13.350
1,100.0	1,100.0	1,096.5	1,096.5	5.5	5.2	89.31	1.6	131.1	131.1	120.5	10.61	12.355
1,200.0	1,200.0	1,196.5	1,196.5	5.7	5.7	89.31	1.6	131.1	131.1	119.7	11.39	11.511
1,300.0	1,300.0	1,296.5	1,296.5	6.0	6.2	89.31	1.6	131.1	131.1	119.0	12.16	10.784
1,400.0	1,400.0	1,396.5	1,396.5	6.3	6.7	89.31	1.6	131.1	131.1	118.2	12.92	10.151
1,500.0	1,500.0	1,496.5	1,496.5	6.5	7.2	89.31	1.6	131.1	131.1	117.5	13.67	9.594
1,600.0	1,600.0	1,596.5	1,596.5	6.8	7.7	89.31	1.6	131.1	131.1	116.7	14.41	9.100
1,700.0	1,700.0	1,696.5	1,696.5	7.0	8.2	89.31	1.6	131.1	131.1	116.0	15.15	8.657
1,800.0	1,800.0	1,796.5	1,796.5	7.2	8.7	89.31	1.6	131.1	131.1	115.3	15.88	8.259
1,900.0	1,900.0	1,896.5	1,896.5	7.5	9.2	89.31	1.6	131.1	131.1	114.5	16.60	7.899
2,000.0	2,000.0	1,996.5	1,996.5	7.7	9.7	89.31	1.6	131.1	131.1	113.8	17.32	7.570
2,100.0	2,100.0	2,096.5	2,096.5	7.9	10.2	89.31	1.6	131.1	131.1	113.1	18.04	7.270
2,200.0	2,200.0	2,196.5	2,196.5	8.1	10.7	89.31	1.6	131.1	131.1	112.4	18.75	6.994
2,300.0	2,300.0	2,296.5	2,296.5	8.3	11.2	89.31	1.6	131.1	131.1	111.7	19.46	6.740
2,400.0	2,400.0	2,396.5	2,396.5	8.5	11.7	89.31	1.6	131.1	131.1	111.0	20.16	6.504
2,500.0	2,500.0	2,496.5	2,496.5	8.7	12.2	89.31	1.6	131.1	131.1	110.3	20.86	6.286
2,600.0	2,600.0	2,596.5	2,596.5	8.9	12.7	89.31	1.6	131.1	131.1	109.6	21.56	6.083
2,700.0	2,700.0	2,696.5	2,696.5	9.1	13.2	89.31	1.6	131.1	131.1	108.9	22.25	5.893
2,800.0	2,800.0	2,796.5	2,796.5	9.3	13.7	89.31	1.6	131.1	131.1	108.2	22.95	5.715
2,900.0	2,900.0	2,896.5	2,896.5	9.5	14.2	89.31	1.6	131.1	131.1	107.5	23.64	5.548
3,000.0	3,000.0	2,996.5	2,996.5	9.7	14.7	89.31	1.6	131.1	131.1	106.8	24.32	5.391
3,100.0	3,100.0	3,096.5	3,096.5	9.9	15.2	89.31	1.6	131.1	131.1	106.1	25.01	5.244
3,200.0	3,200.0	3,196.5	3,196.5	10.0	15.7	89.31	1.6	131.1	131.1	105.4	25.69	5.104
3,300.0	3,300.0	3,296.5	3,296.5	10.2	16.2	89.31	1.6	131.1	131.1	104.8	26.37	4.973
3,400.0	3,400.0	3,396.5	3,396.5	10.4	16.7	89.31	1.6	131.1	131.1	104.1	27.05	4.848
3,500.0	3,500.0	3,496.5	3,496.5	10.6	17.2	89.31	1.6	131.1	131.1	103.4	27.73	4.729
3,600.0	3,600.0	3,596.5	3,596.5	10.7	17.7	89.31	1.6	131.1	131.1	102.7	28.40	4.617
3,700.0	3,700.0	3,696.5	3,696.5	10.9	18.2	89.31	1.6	131.1	131.1	102.1	29.08	4.510
3,800.0	3,800.0	3,796.5	3,796.5	11.1	18.7	89.31	1.6	131.1	131.1	101.4	29.75	4.408
3,900.0	3,900.0	3,896.5	3,896.5	11.3	19.2	89.31	1.6	131.1	131.1	100.7	30.42	4.311
4,000.0	4,000.0	3,996.5	3,996.5	11.4	19.7	89.31	1.6	131.1	131.1	100.0	31.09	4.218
4,100.0	4,100.0	4,096.5	4,096.5	11.6	20.2	89.31	1.6	131.1	131.1	99.4	31.76	4.129
4,200.0	4,200.0	4,196.5	4,196.5	11.8	20.7	89.31	1.6	131.1	131.1	98.7	32.42	4.044
4,300.0	4,300.0	4,296.5	4,296.5	11.9	21.2	89.31	1.6	131.1	131.1	98.0	33.09	3.963
4,400.0	4,400.0	4,396.5	4,396.5	12.1	21.7	89.31	1.6	131.1	131.1	97.4	33.75	3.885
4,500.0	4,500.0	4,496.5	4,496.5	12.3	22.2	89.31	1.6	131.1	131.1	96.7	34.42	3.810
4,600.0	4,600.0	4,596.5	4,596.5	12.4	22.7	89.31	1.6	131.1	131.1	96.1	35.08	3.738
4,700.0	4,700.0	4,696.5	4,696.5	12.6	23.2	89.31	1.6	131.1	131.1	95.4	35.74	3.669
4,800.0	4,800.0	4,796.5	4,796.5	12.7	23.7	89.31	1.6	131.1	131.1	94.7	36.40	3.603
4,900.0	4,900.0	4,896.5	4,896.5	12.9	24.2	89.31	1.6	131.1	131.1	94.1	37.06	3.539
5,000.0	5,000.0	4,996.5	4,996.5	13.1	24.7	89.31	1.6	131.1	131.1	93.4	37.72	3.477 CC, ES
5,100.0	5,100.0	5,094.4	5,094.4	13.2	25.1	89.42	1.3	131.9	131.9	93.6	38.35	3.440 SF

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



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 555H
Project:	Hat Mesa	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 555H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 555H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 555H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 507H - Anderson Fed Com 507H - Anderson Fed Com 507H - Prelim 1														Offset Site Error:	0.0 usft
Survey Program: 0-B001Mb_MWD+HRGM														Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
10,256.4	10,250.0	9,676.6	9,569.4	28.7	48.8	88.78	-187.1	757.1	909.4	846.3	63.12	14.409			
10,300.0	10,293.6	9,705.2	9,588.5	28.7	49.1	88.83	-187.2	778.3	941.9	878.5	63.35	14.868			
10,369.0	10,362.5	9,750.0	9,618.3	28.7	49.5	88.61	-183.9	811.6	993.3	929.6	63.70	15.594			
10,375.0	10,368.6	9,754.0	9,621.0	28.7	49.5	83.03	-183.4	814.5	997.8	934.0	63.73	15.657			

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 555H
Project:	Hat Mesa	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 555H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 555H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 555H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 556H - Anderson Fed Com 556H - Anderson Fed Com 556H - Prelim 1											Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM											Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Highside		Offset Wellbore Centre		Distance		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	88.99	0.6	32.7	32.7			
100.0	100.0	100.0	100.0	0.5	0.5	88.99	0.6	32.7	32.7	31.6	1.07	30.592
200.0	200.0	200.0	200.0	1.7	1.7	88.99	0.6	32.7	32.7	29.3	3.43	9.542
300.0	300.0	300.0	300.0	2.4	2.4	88.99	0.6	32.7	32.7	27.9	4.83	6.777
400.0	400.0	400.0	400.0	3.0	3.0	88.99	0.6	32.7	32.7	26.8	5.91	5.534
500.0	500.0	500.0	500.0	3.4	3.4	88.99	0.6	32.7	32.7	25.9	6.83	4.787
600.0	600.0	600.0	600.0	3.8	3.8	88.99	0.6	32.7	32.7	25.1	7.65	4.275
700.0	700.0	700.0	700.0	4.2	4.2	88.99	0.6	32.7	32.7	24.3	8.40	3.896
800.0	800.0	800.0	800.0	4.5	4.5	88.99	0.6	32.7	32.7	23.6	9.09	3.600
900.0	900.0	900.0	900.0	4.9	4.9	88.99	0.6	32.7	32.7	23.0	9.73	3.361
1,000.0	1,000.0	1,000.0	1,000.0	5.2	5.2	88.99	0.6	32.7	32.7	22.4	10.34	3.162
1,100.0	1,100.0	1,100.0	1,100.0	5.5	5.5	88.99	0.6	32.7	32.7	21.8	10.92	2.994
1,200.0	1,200.0	1,200.0	1,200.0	5.7	5.7	88.99	0.6	32.7	32.7	21.2	11.48	2.849
1,300.0	1,300.0	1,300.0	1,300.0	6.0	6.0	88.99	0.6	32.7	32.7	20.7	12.02	2.722
1,400.0	1,400.0	1,400.0	1,400.0	6.3	6.3	88.99	0.6	32.7	32.7	20.2	12.53	2.610
1,500.0	1,500.0	1,500.0	1,500.0	6.5	6.5	88.99	0.6	32.7	32.7	19.7	13.03	2.510
1,600.0	1,600.0	1,600.0	1,600.0	6.8	6.8	88.99	0.6	32.7	32.7	19.2	13.52	2.420
1,700.0	1,700.0	1,700.0	1,700.0	7.0	7.0	88.99	0.6	32.7	32.7	18.7	13.99	2.338
1,800.0	1,800.0	1,800.0	1,800.0	7.2	7.2	88.99	0.6	32.7	32.7	18.3	14.45	2.263
1,900.0	1,900.0	1,900.0	1,900.0	7.5	7.5	88.99	0.6	32.7	32.7	17.8	14.90	2.195
2,000.0	2,000.0	2,000.0	2,000.0	7.7	7.7	88.99	0.6	32.7	32.7	17.4	15.34	2.132
2,100.0	2,100.0	2,100.0	2,100.0	7.9	7.9	88.99	0.6	32.7	32.7	16.9	15.77	2.074
2,200.0	2,200.0	2,200.0	2,200.0	8.1	8.1	88.99	0.6	32.7	32.7	16.5	16.19	2.020
2,300.0	2,300.0	2,300.0	2,300.0	8.3	8.3	88.99	0.6	32.7	32.7	16.1	16.61	1.969
2,400.0	2,400.0	2,400.0	2,400.0	8.5	8.5	88.99	0.6	32.7	32.7	15.7	17.02	1.922
2,500.0	2,500.0	2,500.0	2,500.0	8.7	8.7	88.99	0.6	32.7	32.7	15.3	17.42	1.878
2,600.0	2,600.0	2,600.0	2,600.0	8.9	8.9	88.99	0.6	32.7	32.7	14.9	17.81	1.836
2,700.0	2,700.0	2,700.0	2,700.0	9.1	9.1	88.99	0.6	32.7	32.7	14.5	18.20	1.797
2,800.0	2,800.0	2,800.0	2,800.0	9.3	9.3	88.99	0.6	32.7	32.7	14.1	18.59	1.760
2,900.0	2,900.0	2,900.0	2,900.0	9.5	9.5	88.99	0.6	32.7	32.7	13.7	18.97	1.725
3,000.0	3,000.0	3,000.0	3,000.0	9.7	9.7	88.99	0.6	32.7	32.7	13.4	19.34	1.691
3,100.0	3,100.0	3,100.0	3,100.0	9.9	9.9	88.99	0.6	32.7	32.7	13.0	19.71	1.660
3,200.0	3,200.0	3,200.0	3,200.0	10.0	10.0	88.99	0.6	32.7	32.7	12.6	20.08	1.629
3,300.0	3,300.0	3,300.0	3,300.0	10.2	10.2	88.99	0.6	32.7	32.7	12.3	20.44	1.600
3,400.0	3,400.0	3,400.0	3,400.0	10.4	10.4	88.99	0.6	32.7	32.7	11.9	20.79	1.573
3,500.0	3,500.0	3,500.0	3,500.0	10.6	10.6	88.99	0.6	32.7	32.7	11.6	21.15	1.547
3,600.0	3,600.0	3,600.0	3,600.0	10.7	10.7	88.99	0.6	32.7	32.7	11.2	21.50	1.521
3,700.0	3,700.0	3,700.0	3,700.0	10.9	10.9	88.99	0.6	32.7	32.7	10.9	21.85	1.497 Level 3
3,800.0	3,800.0	3,800.0	3,800.0	11.1	11.1	88.99	0.6	32.7	32.7	10.5	22.19	1.474 Level 3
3,900.0	3,900.0	3,900.0	3,900.0	11.3	11.3	88.99	0.6	32.7	32.7	10.2	22.53	1.452 Level 3
4,000.0	4,000.0	4,000.0	4,000.0	11.4	11.4	88.99	0.6	32.7	32.7	9.8	22.87	1.430 Level 3
4,100.0	4,100.0	4,100.0	4,100.0	11.6	11.6	88.99	0.6	32.7	32.7	9.5	23.21	1.409 Level 3
4,200.0	4,200.0	4,200.0	4,200.0	11.8	11.8	88.99	0.6	32.7	32.7	9.2	23.54	1.389 Level 3
4,300.0	4,300.0	4,300.0	4,300.0	11.9	11.9	88.99	0.6	32.7	32.7	8.8	23.87	1.370 Level 3
4,400.0	4,400.0	4,400.0	4,400.0	12.1	12.1	88.99	0.6	32.7	32.7	8.5	24.20	1.352 Level 3
4,500.0	4,500.0	4,500.0	4,500.0	12.3	12.3	88.99	0.6	32.7	32.7	8.2	24.53	1.334 Level 3
4,600.0	4,600.0	4,600.0	4,600.0	12.4	12.4	88.99	0.6	32.7	32.7	7.9	24.85	1.316 Level 3
4,700.0	4,700.0	4,700.0	4,700.0	12.6	12.6	88.99	0.6	32.7	32.7	7.5	25.17	1.299 Level 3
4,800.0	4,800.0	4,800.0	4,800.0	12.7	12.7	88.99	0.6	32.7	32.7	7.2	25.49	1.283 Level 3
4,900.0	4,900.0	4,900.0	4,900.0	12.9	12.9	88.99	0.6	32.7	32.7	6.9	25.81	1.267 Level 3
5,000.0	5,000.0	5,000.0	5,000.0	13.1	13.1	88.99	0.6	32.7	32.7	6.6	26.13	1.252 Level 3
5,100.0	5,100.0	5,100.0	5,100.0	13.2	13.2	88.99	0.6	32.7	32.7	6.3	26.44	1.237 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 555H
Project:	Hat Mesa	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 555H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 555H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 555H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 556H - Anderson Fed Com 556H - Anderson Fed Com 556H - Prelim 1													Offset Site Error: 0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.0	5,200.0	5,200.0	5,200.0	13.4	13.4	88.99	0.6	32.7	32.7	6.0	26.75	1.223 Level 3	
5,300.0	5,300.0	5,300.0	5,300.0	13.5	13.5	-55.40	0.6	32.7	32.2	5.2	26.99	1.193 Level 3	
5,400.0	5,400.0	5,400.0	5,400.0	13.5	13.7	-59.42	0.6	32.7	30.8	3.6	27.22	1.131 Level 3	
5,501.4	5,501.2	5,501.0	5,501.0	13.6	13.8	-65.53	-0.1	33.3	29.3	1.9	27.38	1.068 Level 3	
5,600.0	5,599.7	5,599.3	5,599.3	13.7	13.9	-70.58	-1.9	35.1	28.6	1.1	27.51	1.039 Level 3	
5,620.4	5,620.1	5,619.7	5,619.6	13.8	13.9	-71.28	-2.4	35.6	28.6	1.0	27.54	1.037 Level 3, CC, ES, SF	
5,700.0	5,699.6	5,699.1	5,699.0	13.9	13.9	-72.72	-5.0	38.2	28.8	1.2	27.66	1.042 Level 3	
5,800.0	5,799.4	5,799.0	5,798.6	14.0	14.0	-71.97	-9.3	42.3	29.7	2.0	27.75	1.072 Level 3	
5,900.0	5,899.3	5,899.0	5,898.4	14.2	14.1	-70.72	-13.8	46.7	30.8	2.9	27.91	1.104 Level 3	
6,000.0	5,999.2	5,998.9	5,998.2	14.3	14.3	-69.55	-18.3	51.1	31.9	3.8	28.09	1.136 Level 3	
6,100.0	6,099.0	6,098.9	6,098.0	14.5	14.4	-68.47	-22.8	55.5	33.0	4.7	28.28	1.167 Level 3	
6,200.0	6,198.9	6,198.9	6,197.8	14.7	14.6	-67.45	-27.3	59.8	34.1	5.6	28.49	1.198 Level 3	
6,300.0	6,298.8	6,298.9	6,297.6	14.9	14.8	-66.49	-31.7	64.2	35.3	6.5	28.71	1.228 Level 3	
6,400.0	6,398.6	6,398.9	6,397.4	15.1	15.0	-65.60	-36.2	68.6	36.4	7.4	28.94	1.257 Level 3	
6,500.0	6,498.5	6,498.9	6,497.2	15.4	15.2	-64.76	-40.7	73.0	37.5	8.3	29.19	1.286 Level 3	
6,600.0	6,598.3	6,598.9	6,597.0	15.6	15.5	-63.97	-45.2	77.4	38.7	9.2	29.46	1.313 Level 3	
6,700.0	6,698.2	6,698.9	6,696.8	15.9	15.7	-63.23	-49.7	81.8	39.8	10.1	29.74	1.340 Level 3	
6,800.0	6,798.1	6,798.9	6,796.6	16.1	16.0	-62.53	-54.2	86.1	41.0	11.0	30.03	1.365 Level 3	
6,900.0	6,897.9	6,898.9	6,896.4	16.4	16.2	-61.86	-58.7	90.5	42.2	11.8	30.35	1.390 Level 3	
7,000.0	6,997.8	6,998.9	6,996.2	16.7	16.5	-61.24	-63.2	94.9	43.3	12.7	30.67	1.413 Level 3	
7,100.0	7,097.7	7,098.9	7,096.0	17.0	16.8	-60.64	-67.7	99.3	44.5	13.5	31.02	1.435 Level 3	
7,200.0	7,197.5	7,198.8	7,195.8	17.3	17.1	-60.08	-72.2	103.7	45.7	14.3	31.37	1.457 Level 3	
7,300.0	7,297.4	7,298.8	7,295.6	17.6	17.4	-59.54	-76.7	108.0	46.9	15.1	31.75	1.477 Level 3	
7,400.0	7,397.2	7,398.8	7,395.4	17.9	17.7	-59.03	-81.2	112.4	48.1	15.9	32.13	1.496 Level 3	
7,500.0	7,497.1	7,498.8	7,495.2	18.3	18.0	-58.55	-85.7	116.8	49.3	16.7	32.53	1.515	
7,600.0	7,597.0	7,598.8	7,595.0	18.6	18.4	-58.09	-90.2	121.2	50.5	17.5	32.95	1.532	
7,700.0	7,696.8	7,698.8	7,694.7	18.9	18.7	-57.65	-94.7	125.6	51.7	18.3	33.38	1.548	
7,800.0	7,796.7	7,798.8	7,794.5	19.3	19.1	-57.23	-99.2	130.0	52.9	19.1	33.82	1.564	
7,900.0	7,896.5	7,898.8	7,894.3	19.6	19.4	-56.83	-103.7	134.3	54.1	19.8	34.27	1.578	
8,000.0	7,996.4	7,998.8	7,994.1	20.0	19.8	-56.45	-108.2	138.7	55.3	20.6	34.74	1.592	
8,100.0	8,096.3	8,098.8	8,093.9	20.3	20.1	-56.08	-112.7	143.1	56.5	21.3	35.22	1.605	
8,200.0	8,196.1	8,198.8	8,193.7	20.7	20.5	-55.73	-117.2	147.5	57.7	22.0	35.71	1.617	
8,300.0	8,296.0	8,298.8	8,293.5	21.1	20.9	-55.39	-121.7	151.9	58.9	22.7	36.21	1.628	
8,400.0	8,395.9	8,398.8	8,393.3	21.4	21.3	-55.07	-126.2	156.3	60.2	23.4	36.72	1.638	
8,500.0	8,495.7	8,498.7	8,493.1	21.8	21.7	-54.76	-130.6	160.6	61.4	24.1	37.24	1.648	
8,600.0	8,595.6	8,598.7	8,592.9	22.2	22.1	-54.46	-135.1	165.0	62.6	24.8	37.77	1.657	
8,700.0	8,695.4	8,698.7	8,692.7	22.6	22.5	-54.17	-139.6	169.4	63.8	25.5	38.31	1.666	
8,800.0	8,795.3	8,798.7	8,792.5	23.0	22.9	-53.90	-144.1	173.8	65.1	26.2	38.86	1.674	
8,900.0	8,895.2	8,898.7	8,892.3	23.4	23.3	-53.63	-148.6	178.2	66.3	26.9	39.42	1.681	
9,000.0	8,995.0	8,998.7	8,992.1	23.8	23.7	-53.37	-153.1	182.6	67.5	27.5	39.99	1.688	
9,100.0	9,094.9	9,098.7	9,091.9	24.2	24.1	-53.13	-157.6	186.9	68.7	28.2	40.57	1.694	
9,200.0	9,194.7	9,198.7	9,191.7	24.6	24.5	-52.89	-162.1	191.3	70.0	28.8	41.15	1.700	
9,300.0	9,294.6	9,298.7	9,291.5	25.0	24.9	-52.66	-166.6	195.7	71.2	29.5	41.74	1.706	
9,400.0	9,394.5	9,398.7	9,391.3	25.4	25.3	-52.44	-171.1	200.1	72.4	30.1	42.34	1.711	
9,500.0	9,494.3	9,498.7	9,491.1	25.8	25.8	-52.22	-175.6	204.5	73.7	30.7	42.95	1.715	
9,600.0	9,594.2	9,598.7	9,590.8	26.2	26.2	-52.01	-180.1	208.9	74.9	31.3	43.56	1.720	
9,700.0	9,694.1	9,698.6	9,690.6	26.6	26.6	-51.81	-184.6	213.2	76.1	32.0	44.18	1.723	
9,800.0	9,793.9	9,798.6	9,790.4	27.0	27.1	-51.62	-189.1	217.6	77.4	32.6	44.80	1.727	
9,900.0	9,893.8	9,899.1	9,890.7	27.5	27.5	-51.54	-193.4	221.9	78.5	33.1	45.36	1.730	
9,955.1	9,948.8	9,954.7	9,946.3	27.7	27.7	-51.82	-195.4	223.8	78.6	33.0	45.54	1.726	
10,000.0	9,993.6	10,000.1	9,991.6	27.9	27.9	-52.16	-196.7	225.1	78.5	32.9	45.65	1.720	
10,100.0	10,093.6	10,101.1	10,092.6	28.2	28.2	-52.82	-198.7	227.0	78.3	32.4	45.90	1.706	

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 555H
Project:	Hat Mesa	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 555H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 555H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 555H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 556H - Anderson Fed Com 556H - Anderson Fed Com 556H - Prelim 1													Offset Site Error:	0.0 usft
Survey Program:		0-MWD+HRGM		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:			Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
10,200.0	10,193.6	10,202.0	10,193.5	28.6	28.4	-53.39	-199.4	227.7	77.9	31.8	46.04	1.691		
10,256.4	10,250.0	10,258.5	10,250.0	28.7	28.5	89.58	-199.4	227.7	77.7	31.6	46.08	1.686		
10,300.0	10,293.6	10,302.1	10,293.6	28.7	28.5	89.58	-199.4	227.7	77.7	31.6	46.12	1.685		
10,369.0	10,362.5	10,371.1	10,362.5	28.7	28.5	89.58	-199.4	227.7	77.7	31.5	46.20	1.682		
10,375.0	10,368.6	10,377.1	10,368.6	28.7	28.5	84.86	-199.4	227.7	77.7	31.5	46.21	1.681		
10,400.0	10,393.5	10,402.1	10,393.5	28.6	28.5	85.58	-199.4	227.7	77.6	31.1	46.49	1.670		
10,425.0	10,418.4	10,427.0	10,418.4	28.6	28.6	87.27	-199.4	227.7	77.5	30.4	47.11	1.645		
10,450.0	10,443.2	10,451.7	10,443.2	28.5	28.6	89.90	-199.4	227.7	77.4	29.3	48.05	1.611		
10,450.8	10,444.0	10,452.5	10,444.0	28.5	28.6	90.00	-199.4	227.7	77.4	29.3	48.08	1.610		
10,475.0	10,467.7	10,476.2	10,467.7	28.4	28.6	93.41	-199.4	227.7	77.5	28.3	49.27	1.574		
10,500.0	10,491.9	10,500.5	10,491.9	28.3	28.6	97.70	-199.4	227.7	78.2	27.4	50.72	1.541		
10,525.0	10,515.8	10,524.3	10,515.8	28.3	28.6	102.60	-199.4	227.7	79.5	27.3	52.26	1.522		
10,550.0	10,539.3	10,547.8	10,539.3	28.2	28.6	107.90	-199.4	227.7	81.9	28.2	53.74	1.525		
10,575.0	10,562.2	10,570.8	10,562.2	28.1	28.7	113.34	-199.4	227.7	85.7	30.7	54.99	1.558		
10,600.0	10,584.7	10,593.2	10,584.7	28.0	28.7	118.67	-199.4	227.7	91.0	35.1	55.89	1.628		
10,625.0	10,606.5	10,615.0	10,606.5	27.9	28.7	123.69	-199.4	227.7	97.9	41.6	56.38	1.737		
10,650.0	10,627.6	10,636.2	10,627.6	27.9	28.7	128.25	-199.4	227.7	106.6	50.1	56.50	1.887		
10,675.0	10,648.0	10,656.6	10,648.0	27.8	28.7	132.27	-199.4	227.7	117.0	60.7	56.33	2.077		
10,700.0	10,667.7	10,676.2	10,667.7	27.7	28.7	135.73	-199.4	227.7	129.0	73.1	55.94	2.306		
10,725.0	10,686.5	10,695.0	10,686.5	27.6	28.7	138.65	-199.4	227.7	142.5	87.1	55.44	2.571		
10,750.0	10,704.4	10,712.9	10,704.4	27.6	28.7	141.05	-199.4	227.7	157.5	102.6	54.87	2.870		
10,775.0	10,721.4	10,729.9	10,721.4	27.5	28.7	142.97	-199.4	227.7	173.7	119.4	54.29	3.199		
10,800.0	10,737.4	10,745.9	10,737.4	27.5	28.8	144.43	-199.4	227.7	191.1	137.3	53.73	3.556		
10,825.0	10,752.3	10,760.9	10,752.3	27.4	28.8	145.46	-199.4	227.7	209.5	156.3	53.20	3.939		
10,850.0	10,766.2	10,774.8	10,766.2	27.4	28.8	146.08	-199.4	227.7	229.0	176.3	52.71	4.344		
10,875.0	10,779.0	10,787.6	10,779.0	27.4	28.8	146.26	-199.4	227.7	249.3	197.0	52.25	4.771		
10,900.0	10,790.7	10,799.2	10,790.7	27.3	28.8	145.99	-199.4	227.7	270.4	218.6	51.84	5.216		
10,925.0	10,801.1	10,809.7	10,801.1	27.3	28.8	145.20	-199.4	227.7	292.2	240.7	51.47	5.677		
10,950.0	10,810.4	10,819.0	10,810.4	27.3	28.8	143.79	-199.4	227.7	314.7	263.5	51.14	6.153		
10,975.0	10,818.5	10,827.0	10,818.5	27.3	28.8	141.59	-199.4	227.7	337.7	286.8	50.84	6.641		
11,000.0	10,825.3	10,833.8	10,825.3	27.4	28.8	138.34	-199.4	227.7	361.1	310.5	50.58	7.140		
11,025.0	10,830.8	10,839.3	10,830.8	27.4	28.8	133.62	-199.4	227.7	385.0	334.6	50.34	7.647		
11,050.0	10,835.0	10,843.6	10,835.0	27.5	28.8	126.77	-199.4	227.7	409.1	359.0	50.13	8.161		
11,075.0	10,838.0	10,846.5	10,838.0	27.5	28.8	116.88	-199.4	227.7	433.5	383.6	49.95	8.679		
11,100.0	10,839.6	10,848.2	10,839.6	27.6	28.8	103.05	-199.4	227.7	458.1	408.3	49.79	9.201		
11,119.0	10,840.0	10,848.5	10,840.0	27.7	28.8	90.00	-199.4	227.7	476.8	427.1	49.68	9.598		
11,125.3	10,840.0	10,848.5	10,840.0	27.7	28.8	90.00	-199.4	227.7	483.1	433.4	49.64	9.731		
11,200.0	10,840.0	10,848.5	10,840.0	28.0	28.8	90.00	-199.4	227.7	557.0	507.7	49.33	11.293		
11,300.0	10,840.0	11,860.6	11,400.0	28.5	28.7	-179.29	456.5	192.1	560.0	494.6	65.41	8.562		
11,380.4	10,840.0	11,941.1	11,400.0	29.0	29.1	-179.18	537.0	191.7	560.1	494.2	65.89	8.500		
11,400.0	10,840.0	11,960.6	11,400.0	29.1	29.3	-179.18	556.5	191.6	560.1	494.1	66.01	8.485		
11,500.0	10,840.0	12,060.6	11,400.0	29.8	30.0	-179.20	656.5	191.1	560.1	493.4	66.66	8.402		
11,600.0	10,840.0	12,160.6	11,400.0	30.6	30.8	-179.21	756.5	190.7	560.1	492.7	67.38	8.312		
11,700.0	10,840.0	12,260.6	11,400.0	31.5	31.8	-179.22	856.5	190.2	560.1	491.9	68.16	8.216		
11,800.0	10,840.0	12,360.6	11,400.0	32.5	32.9	-179.24	956.5	189.7	560.0	491.0	69.01	8.115		
11,900.0	10,840.0	12,460.6	11,400.0	33.7	34.1	-179.25	1,056.5	189.2	560.0	490.1	69.91	8.011		
12,000.0	10,840.0	12,560.6	11,400.0	34.9	35.3	-179.26	1,156.5	188.7	560.0	489.2	70.87	7.902		
12,100.0	10,840.0	12,660.6	11,400.0	36.2	36.7	-179.28	1,256.5	188.2	560.0	488.2	71.89	7.791		
12,200.0	10,840.0	12,760.6	11,400.0	37.6	38.1	-179.29	1,356.5	187.7	560.0	487.1	72.95	7.677		
12,300.0	10,840.0	12,860.6	11,400.0	39.1	39.6	-179.30	1,456.5	187.2	560.0	486.0	74.06	7.562		
12,400.0	10,840.0	12,960.6	11,400.0	40.6	41.1	-179.32	1,556.5	186.7	560.0	484.8	75.22	7.445		
12,500.0	10,840.0	13,060.6	11,400.0	42.2	42.7	-179.33	1,656.5	186.2	560.0	483.6	76.43	7.328		

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 555H
Project:	Hat Mesa	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 555H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 555H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 555H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 556H - Anderson Fed Com 556H - Anderson Fed Com 556H - Prelim 1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
12,600.0	10,840.0	13,160.6	11,400.0	43.8	44.3	-179.34	1,756.5	185.7	560.0	482.4	77.68	7.210	
12,700.0	10,840.0	13,260.6	11,400.0	45.4	45.9	-179.36	1,856.5	185.2	560.0	481.1	78.96	7.092	
12,800.0	10,840.0	13,360.6	11,400.0	47.1	47.6	-179.37	1,956.5	184.7	560.0	479.7	80.29	6.975	
12,900.0	10,840.0	13,460.6	11,400.0	48.8	49.3	-179.38	2,056.5	184.2	560.0	478.4	81.66	6.858	
13,000.0	10,840.0	13,560.6	11,400.0	50.6	51.0	-179.40	2,156.5	183.7	560.0	477.0	83.05	6.743	
13,100.0	10,840.0	13,660.6	11,400.0	52.4	52.8	-179.41	2,256.5	183.2	560.0	475.5	84.49	6.629	
13,200.0	10,840.0	13,760.6	11,400.0	54.1	54.6	-179.42	2,356.5	182.7	560.0	474.1	85.95	6.516	
13,300.0	10,840.0	13,860.6	11,400.0	55.9	56.4	-179.44	2,456.5	182.2	560.0	472.6	87.44	6.404	
13,400.0	10,840.0	13,960.6	11,400.0	57.8	58.2	-179.45	2,556.5	181.7	560.0	471.1	88.97	6.295	
13,500.0	10,840.0	14,060.6	11,400.0	59.6	60.0	-179.46	2,656.5	181.2	560.0	469.5	90.52	6.187	
13,600.0	10,840.0	14,160.6	11,400.0	61.4	61.8	-179.48	2,756.5	180.7	560.0	467.9	92.09	6.081	
13,700.0	10,840.0	14,260.6	11,400.0	63.3	63.7	-179.49	2,856.5	180.2	560.0	466.3	93.69	5.977	
13,800.0	10,840.0	14,360.6	11,400.0	65.2	65.6	-179.50	2,956.5	179.7	560.0	464.7	95.31	5.876	
13,900.0	10,840.0	14,460.6	11,400.0	67.0	67.4	-179.52	3,056.5	179.2	560.0	463.1	96.96	5.776	
14,000.0	10,840.0	14,560.6	11,400.0	68.9	69.3	-179.53	3,156.5	178.7	560.0	461.4	98.62	5.678	
14,100.0	10,840.0	14,660.6	11,400.0	70.8	71.2	-179.54	3,256.5	178.2	560.0	459.7	100.31	5.583	
14,200.0	10,840.0	14,760.6	11,400.0	72.7	73.1	-179.56	3,356.5	177.7	560.0	458.0	102.01	5.490	
14,300.0	10,840.0	14,860.6	11,400.0	74.6	75.0	-179.57	3,456.5	177.2	560.0	456.3	103.73	5.399	
14,400.0	10,840.0	14,960.6	11,400.0	76.5	76.9	-179.58	3,556.5	176.7	560.0	454.5	105.47	5.310	
14,500.0	10,840.0	15,060.6	11,400.0	78.4	78.8	-179.60	3,656.5	176.2	560.0	452.8	107.23	5.223	
14,600.0	10,840.0	15,160.6	11,400.0	80.4	80.7	-179.61	3,756.5	175.7	560.0	451.0	109.00	5.138	
14,700.0	10,840.0	15,260.6	11,400.0	82.3	82.6	-179.62	3,856.5	175.2	560.0	449.2	110.78	5.055	
14,800.0	10,840.0	15,360.6	11,400.0	84.2	84.5	-179.64	3,956.5	174.7	560.0	447.4	112.58	4.974	
14,900.0	10,840.0	15,460.6	11,400.0	86.2	86.5	-179.65	4,056.5	174.2	560.0	445.6	114.39	4.895	
15,000.0	10,840.0	15,560.6	11,400.0	88.1	88.4	-179.66	4,156.5	173.7	560.0	443.8	116.22	4.819	
15,100.0	10,840.0	15,660.6	11,400.0	90.0	90.3	-179.68	4,256.5	173.2	560.0	442.0	118.06	4.744	
15,200.0	10,840.0	15,760.6	11,400.0	92.0	92.3	-179.69	4,356.5	172.7	560.0	440.1	119.91	4.670	
15,300.0	10,840.0	15,860.6	11,400.0	93.9	94.2	-179.70	4,456.5	172.2	560.0	438.2	121.77	4.599	
15,400.0	10,840.0	15,960.6	11,400.0	95.9	96.2	-179.72	4,556.5	171.7	560.0	436.4	123.64	4.529	
15,500.0	10,840.0	16,060.6	11,400.0	97.8	98.1	-179.73	4,656.5	171.2	560.0	434.5	125.52	4.462	
15,600.0	10,840.0	16,160.6	11,400.0	99.8	100.1	-179.74	4,756.5	170.7	560.0	432.6	127.41	4.395	
15,700.0	10,840.0	16,260.6	11,400.0	101.8	102.0	-179.76	4,856.5	170.2	560.0	430.7	129.31	4.331	
15,800.0	10,840.0	16,360.6	11,400.0	103.7	104.0	-179.77	4,956.5	169.7	560.0	428.8	131.22	4.268	
15,900.0	10,840.0	16,460.6	11,400.0	105.7	106.0	-179.78	5,056.5	169.2	560.0	426.9	133.13	4.206	
16,000.0	10,840.0	16,560.6	11,400.0	107.7	107.9	-179.80	5,156.5	168.7	560.0	424.9	135.06	4.146	
16,100.0	10,840.0	16,660.6	11,400.0	109.6	109.9	-179.81	5,256.5	168.2	560.0	423.0	136.99	4.088	
16,200.0	10,840.0	16,760.6	11,400.0	111.6	111.8	-179.82	5,356.5	167.7	560.0	421.1	138.93	4.031	
16,300.0	10,840.0	16,860.6	11,400.0	113.6	113.8	-179.84	5,456.5	167.2	560.0	419.1	140.88	3.975	
16,400.0	10,840.0	16,960.6	11,400.0	115.5	115.8	-179.85	5,556.5	166.7	560.0	417.2	142.83	3.921	
16,500.0	10,840.0	17,060.6	11,400.0	117.5	117.7	-179.86	5,656.5	166.2	560.0	415.2	144.79	3.868	
16,600.0	10,840.0	17,160.6	11,400.0	119.5	119.7	-179.88	5,756.5	165.7	560.0	413.2	146.76	3.816	
16,700.0	10,840.0	17,260.6	11,400.0	121.5	121.7	-179.89	5,856.5	165.2	560.0	411.3	148.73	3.765	
16,800.0	10,840.0	17,360.6	11,400.0	123.4	123.7	-179.90	5,956.5	164.7	560.0	409.3	150.71	3.716	
16,900.0	10,840.0	17,460.6	11,400.0	125.4	125.6	-179.92	6,056.5	164.3	560.0	407.3	152.69	3.667	
17,000.0	10,840.0	17,560.6	11,400.0	127.4	127.6	-179.93	6,156.5	163.8	560.0	405.3	154.68	3.620	
17,100.0	10,840.0	17,660.6	11,400.0	129.4	129.6	-179.94	6,256.4	163.3	560.0	403.3	156.68	3.574	
17,200.0	10,840.0	17,760.6	11,400.0	131.4	131.6	-179.96	6,356.4	162.8	560.0	401.3	158.68	3.529	
17,300.0	10,840.0	17,860.6	11,400.0	133.3	133.6	-179.97	6,456.4	162.3	560.0	399.3	160.68	3.485	
17,400.0	10,840.0	17,960.6	11,400.0	135.3	135.5	-179.98	6,556.4	161.8	560.0	397.3	162.69	3.442	
17,500.0	10,840.0	18,060.6	11,400.0	137.3	137.5	-180.00	6,656.4	161.3	560.0	395.3	164.70	3.400	
17,529.1	10,840.0	18,089.7	11,400.0	137.9	138.1	180.00	6,685.5	161.1	560.0	394.7	165.29	3.388	

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 555H
Project:	Hat Mesa	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 555H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 555H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 555H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 603H - Anderson Fed Com 603H - Anderson Fed Com 603H - Prelim 1											Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM											Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Rule Assigned:	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
0.0	0.0	1.0	1.0	0.0	0.0	89.21	1.4	98.1	98.1			
100.0	100.0	101.0	101.0	0.5	0.5	89.21	1.4	98.1	98.1	97.0	1.08	90.772
200.0	200.0	201.0	201.0	1.7	1.7	89.21	1.4	98.1	98.1	94.7	3.44	28.565
300.0	300.0	301.0	301.0	2.4	2.4	89.21	1.4	98.1	98.1	93.3	4.83	20.309
400.0	400.0	401.0	401.0	3.0	3.0	89.21	1.4	98.1	98.1	92.2	5.92	16.588
500.0	500.0	501.0	501.0	3.4	3.4	89.21	1.4	98.1	98.1	91.3	6.84	14.353
600.0	600.0	601.0	601.0	3.8	3.8	89.21	1.4	98.1	98.1	90.5	7.65	12.819
700.0	700.0	701.0	701.0	4.2	4.2	89.21	1.4	98.1	98.1	89.7	8.40	11.682
800.0	800.0	801.0	801.0	4.5	4.5	89.21	1.4	98.1	98.1	89.0	9.09	10.796
900.0	900.0	901.0	901.0	4.9	4.9	89.21	1.4	98.1	98.1	88.4	9.73	10.080
1,000.0	1,000.0	1,001.0	1,001.0	5.2	5.2	89.21	1.4	98.1	98.1	87.8	10.35	9.484
1,100.0	1,100.0	1,101.0	1,101.0	5.5	5.5	89.21	1.4	98.1	98.1	87.2	10.93	8.980
1,200.0	1,200.0	1,201.0	1,201.0	5.7	5.7	89.21	1.4	98.1	98.1	86.6	11.48	8.545
1,300.0	1,300.0	1,301.0	1,301.0	6.0	6.0	89.21	1.4	98.1	98.1	86.1	12.02	8.164
1,400.0	1,400.0	1,401.0	1,401.0	6.3	6.3	89.21	1.4	98.1	98.1	85.6	12.54	7.828
1,500.0	1,500.0	1,501.0	1,501.0	6.5	6.5	89.21	1.4	98.1	98.1	85.1	13.04	7.528
1,600.0	1,600.0	1,601.0	1,601.0	6.8	6.8	89.21	1.4	98.1	98.1	84.6	13.52	7.257
1,700.0	1,700.0	1,701.0	1,701.0	7.0	7.0	89.21	1.4	98.1	98.1	84.1	13.99	7.012
1,800.0	1,800.0	1,801.0	1,801.0	7.2	7.2	89.21	1.4	98.1	98.1	83.7	14.45	6.789
1,900.0	1,900.0	1,901.0	1,901.0	7.5	7.5	89.21	1.4	98.1	98.1	83.2	14.90	6.584
2,000.0	2,000.0	2,001.0	2,001.0	7.7	7.7	89.21	1.4	98.1	98.1	82.8	15.34	6.396
2,100.0	2,100.0	2,101.0	2,101.0	7.9	7.9	89.21	1.4	98.1	98.1	82.4	15.77	6.221
2,200.0	2,200.0	2,201.0	2,201.0	8.1	8.1	89.21	1.4	98.1	98.1	81.9	16.20	6.059
2,300.0	2,300.0	2,301.0	2,301.0	8.3	8.3	89.21	1.4	98.1	98.1	81.5	16.61	5.907
2,400.0	2,400.0	2,401.0	2,401.0	8.5	8.5	89.21	1.4	98.1	98.1	81.1	17.02	5.766
2,500.0	2,500.0	2,501.0	2,501.0	8.7	8.7	89.21	1.4	98.1	98.1	80.7	17.42	5.633
2,600.0	2,600.0	2,601.0	2,601.0	8.9	8.9	89.21	1.4	98.1	98.1	80.3	17.82	5.508
2,700.0	2,700.0	2,701.0	2,701.0	9.1	9.1	89.21	1.4	98.1	98.1	79.9	18.20	5.390
2,800.0	2,800.0	2,801.0	2,801.0	9.3	9.3	89.21	1.4	98.1	98.1	79.5	18.59	5.279
2,900.0	2,900.0	2,901.0	2,901.0	9.5	9.5	89.21	1.4	98.1	98.1	79.2	18.97	5.173
3,000.0	3,000.0	3,001.0	3,001.0	9.7	9.7	89.21	1.4	98.1	98.1	78.8	19.34	5.073
3,100.0	3,100.0	3,101.0	3,101.0	9.9	9.9	89.21	1.4	98.1	98.1	78.4	19.71	4.978
3,200.0	3,200.0	3,201.0	3,201.0	10.0	10.0	89.21	1.4	98.1	98.1	78.0	20.08	4.887
3,300.0	3,300.0	3,301.0	3,301.0	10.2	10.2	89.21	1.4	98.1	98.1	77.7	20.44	4.801
3,400.0	3,400.0	3,401.0	3,401.0	10.4	10.4	89.21	1.4	98.1	98.1	77.3	20.80	4.718
3,500.0	3,500.0	3,501.0	3,501.0	10.6	10.6	89.21	1.4	98.1	98.1	77.0	21.15	4.639
3,600.0	3,600.0	3,601.0	3,601.0	10.7	10.8	89.21	1.4	98.1	98.1	76.6	21.50	4.564
3,700.0	3,700.0	3,701.0	3,701.0	10.9	10.9	89.21	1.4	98.1	98.1	76.3	21.85	4.491
3,800.0	3,800.0	3,801.0	3,801.0	11.1	11.1	89.21	1.4	98.1	98.1	75.9	22.19	4.421
3,900.0	3,900.0	3,901.0	3,901.0	11.3	11.3	89.21	1.4	98.1	98.1	75.6	22.53	4.354
4,000.0	4,000.0	4,001.0	4,001.0	11.4	11.4	89.21	1.4	98.1	98.1	75.3	22.87	4.290
4,100.0	4,100.0	4,101.0	4,101.0	11.6	11.6	89.21	1.4	98.1	98.1	74.9	23.21	4.228
4,200.0	4,200.0	4,201.0	4,201.0	11.8	11.8	89.21	1.4	98.1	98.1	74.6	23.54	4.168
4,300.0	4,300.0	4,301.0	4,301.0	11.9	11.9	89.21	1.4	98.1	98.1	74.3	23.87	4.110
4,400.0	4,400.0	4,401.0	4,401.0	12.1	12.1	89.21	1.4	98.1	98.1	73.9	24.20	4.054
4,500.0	4,500.0	4,501.0	4,501.0	12.3	12.3	89.21	1.4	98.1	98.1	73.6	24.53	4.000
4,600.0	4,600.0	4,601.0	4,601.0	12.4	12.4	89.21	1.4	98.1	98.1	73.3	24.85	3.948
4,700.0	4,700.0	4,701.0	4,701.0	12.6	12.6	89.21	1.4	98.1	98.1	73.0	25.17	3.898
4,800.0	4,800.0	4,801.0	4,801.0	12.7	12.7	89.21	1.4	98.1	98.1	72.6	25.49	3.849
4,900.0	4,900.0	4,901.0	4,901.0	12.9	12.9	89.21	1.4	98.1	98.1	72.3	25.81	3.802
5,000.0	5,000.0	5,001.0	5,001.0	13.1	13.1	89.21	1.4	98.1	98.1	72.0	26.13	3.756
5,100.0	5,100.0	5,101.0	5,101.0	13.2	13.2	89.21	1.4	98.1	98.1	71.7	26.44	3.711

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 555H
Project:	Hat Mesa	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 555H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 555H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 555H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 603H - Anderson Fed Com 603H - Anderson Fed Com 603H - Prelim 1													Offset Site Error: 0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		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)			
5,200.0	5,200.0	5,201.0	5,201.0	13.4	13.4	89.21	1.4	98.1	98.1	71.4	26.75	3.668	
5,300.0	5,300.0	5,301.0	5,301.0	13.5	13.5	-54.34	1.4	98.1	97.6	70.6	27.00	3.616	
5,400.0	5,400.0	5,401.0	5,401.0	13.5	13.7	-55.62	1.4	98.1	96.1	68.9	27.22	3.531	
5,501.4	5,501.2	5,502.2	5,502.2	13.6	13.8	-57.88	1.4	98.1	93.7	66.2	27.45	3.413	
5,600.0	5,599.7	5,600.7	5,600.7	13.7	14.0	-60.64	1.4	98.1	91.0	63.3	27.67	3.289	
5,700.0	5,699.6	5,700.6	5,700.6	13.9	14.1	-63.61	1.4	98.1	88.6	60.7	27.90	3.174	
5,800.0	5,799.4	5,800.0	5,800.0	14.0	14.3	-66.71	1.4	98.1	86.4	58.2	28.13	3.070	
5,900.0	5,899.3	5,899.2	5,899.2	14.2	14.4	-69.58	1.0	98.9	85.1	56.8	28.30	3.006	
5,937.5	5,936.8	5,936.3	5,936.3	14.2	14.4	-70.47	0.7	99.6	85.0	56.6	28.36	2.996 CC, ES	
6,000.0	5,999.2	5,998.1	5,998.0	14.3	14.5	-71.72	-0.1	101.2	85.2	56.8	28.46	2.995 SF	
6,100.0	6,099.0	6,097.0	6,096.9	14.5	14.6	-73.03	-1.9	105.1	86.7	58.1	28.62	3.030	
6,200.0	6,198.9	6,195.9	6,195.6	14.7	14.7	-73.52	-4.4	110.5	89.5	60.7	28.80	3.107	
6,300.0	6,298.8	6,294.7	6,294.1	14.9	14.8	-73.22	-7.7	117.5	93.4	64.4	29.00	3.222	
6,400.0	6,398.6	6,394.5	6,393.5	15.1	15.0	-72.55	-11.3	125.3	98.1	68.9	29.22	3.357	
6,500.0	6,498.5	6,494.4	6,493.0	15.4	15.2	-71.94	-15.0	133.2	102.7	73.3	29.46	3.488	
6,600.0	6,598.3	6,594.3	6,592.5	15.6	15.4	-71.38	-18.7	141.1	107.4	77.7	29.71	3.615	
6,700.0	6,698.2	6,694.2	6,692.0	15.9	15.6	-70.87	-22.4	149.0	112.1	82.1	29.98	3.738	
6,800.0	6,798.1	6,794.1	6,791.5	16.1	15.8	-70.40	-26.1	156.9	116.8	86.5	30.27	3.858	
6,900.0	6,897.9	6,893.9	6,891.0	16.4	16.0	-69.97	-29.7	164.8	121.5	90.9	30.57	3.973	
7,000.0	6,997.8	6,993.8	6,990.6	16.7	16.3	-69.57	-33.4	172.7	126.2	95.3	30.89	4.085	
7,100.0	7,097.7	7,093.7	7,090.1	17.0	16.5	-69.20	-37.1	180.6	130.9	99.7	31.22	4.192	
7,200.0	7,197.5	7,193.6	7,189.6	17.3	16.8	-68.85	-40.8	188.5	135.6	104.0	31.56	4.295	
7,300.0	7,297.4	7,293.5	7,289.1	17.6	17.1	-68.53	-44.4	196.3	140.3	108.4	31.93	4.394	
7,400.0	7,397.2	7,393.4	7,388.6	17.9	17.4	-68.22	-48.1	204.2	145.0	112.7	32.30	4.490	
7,500.0	7,497.1	7,493.3	7,488.1	18.3	17.7	-67.94	-51.8	212.1	149.7	117.0	32.69	4.581	
7,600.0	7,597.0	7,593.1	7,587.6	18.6	18.1	-67.68	-55.5	220.0	154.5	121.4	33.09	4.668	
7,700.0	7,696.8	7,693.0	7,687.1	18.9	18.4	-67.43	-59.2	227.9	159.2	125.7	33.50	4.752	
7,800.0	7,796.7	7,792.9	7,786.6	19.3	18.8	-67.19	-62.8	235.8	163.9	130.0	33.92	4.832	
7,900.0	7,896.5	7,892.8	7,886.1	19.6	19.1	-66.97	-66.5	243.7	168.7	134.3	34.36	4.908	
8,000.0	7,996.4	7,992.7	7,985.6	20.0	19.5	-66.76	-70.2	251.6	173.4	138.6	34.81	4.981	
8,100.0	8,096.3	8,092.6	8,085.1	20.3	19.8	-66.56	-73.9	259.5	178.1	142.9	35.27	5.051	
8,200.0	8,196.1	8,192.5	8,184.6	20.7	20.2	-66.37	-77.6	267.4	182.9	147.1	35.74	5.117	
8,300.0	8,296.0	8,292.3	8,284.1	21.1	20.6	-66.19	-81.2	275.2	187.6	151.4	36.21	5.181	
8,400.0	8,395.9	8,392.2	8,383.6	21.4	21.0	-66.02	-84.9	283.1	192.4	155.7	36.70	5.241	
8,500.0	8,495.7	8,492.1	8,483.1	21.8	21.4	-65.86	-88.6	291.0	197.1	159.9	37.20	5.299	
8,600.0	8,595.6	8,592.0	8,582.6	22.2	21.8	-65.70	-92.3	298.9	201.9	164.1	37.70	5.354	
8,700.0	8,695.4	8,691.9	8,682.1	22.6	22.2	-65.56	-96.0	306.8	206.6	168.4	38.22	5.406	
8,800.0	8,795.3	8,791.8	8,781.7	23.0	22.6	-65.42	-99.6	314.7	211.4	172.6	38.74	5.456	
8,900.0	8,895.2	8,891.7	8,881.2	23.4	23.1	-65.28	-103.3	322.6	216.1	176.8	39.27	5.503	
9,000.0	8,995.0	8,991.5	8,980.7	23.8	23.5	-65.15	-107.0	330.5	220.9	181.1	39.81	5.548	
9,100.0	9,094.9	9,091.4	9,080.2	24.2	23.9	-65.03	-110.7	338.4	225.6	185.3	40.35	5.591	
9,200.0	9,194.7	9,191.3	9,179.7	24.6	24.4	-64.91	-114.4	346.3	230.4	189.5	40.90	5.632	
9,300.0	9,294.6	9,291.2	9,279.2	25.0	24.8	-64.80	-118.0	354.1	235.1	193.7	41.46	5.671	
9,400.0	9,394.5	9,391.1	9,378.7	25.4	25.2	-64.69	-121.7	362.0	239.9	197.9	42.03	5.708	
9,500.0	9,494.3	9,491.0	9,478.2	25.8	25.7	-64.58	-125.4	369.9	244.6	202.0	42.60	5.743	
9,600.0	9,594.2	9,590.9	9,577.7	26.2	26.1	-64.48	-129.1	377.8	249.4	206.2	43.17	5.777	
9,700.0	9,694.1	9,690.7	9,677.2	26.6	26.6	-64.39	-132.7	385.7	254.2	210.4	43.75	5.809	
9,800.0	9,793.9	9,778.2	9,764.2	27.0	27.0	-64.23	-136.2	393.3	259.9	215.5	44.41	5.851	
9,900.0	9,893.8	9,850.0	9,834.4	27.5	27.8	-63.30	-141.3	407.5	275.4	229.6	45.80	6.013	
9,955.1	9,948.8	9,880.6	9,863.5	27.7	28.2	-62.65	-144.3	416.4	288.8	242.1	46.74	6.179	
10,000.0	9,993.6	9,900.0	9,881.7	27.9	28.4	-62.30	-146.4	422.9	302.6	255.0	47.56	6.362	
10,100.0	10,093.6	9,965.9	9,941.1	28.2	29.2	-60.62	-155.1	449.9	340.8	291.3	49.55	6.878	

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 555H
Project:	Hat Mesa	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 555H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 555H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 555H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 603H - Anderson Fed Com 603H - Anderson Fed Com 603H - Prelim 1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,200.0	10,193.6	10,016.8	9,984.2	28.6	29.8	-59.23	-163.2	475.8	389.7	338.2	51.46	7.572	
10,256.4	10,250.0	10,050.0	10,010.7	28.7	30.1	84.87	-169.0	494.8	421.4	368.9	52.48	8.030	
10,300.0	10,293.6	10,050.0	10,010.7	28.7	30.1	84.87	-169.0	494.8	447.7	394.6	53.03	8.442	
10,369.0	10,362.5	10,100.0	10,048.1	28.7	30.6	86.77	-178.7	526.5	491.6	437.4	54.20	9.070	
10,375.0	10,368.6	10,100.0	10,048.1	28.7	30.6	81.42	-178.7	526.5	495.5	441.2	54.27	9.131	
10,400.0	10,393.5	10,100.0	10,048.1	28.6	30.6	78.84	-178.7	526.5	512.0	457.4	54.55	9.386	
10,425.0	10,418.4	10,100.0	10,048.1	28.6	30.6	76.14	-178.7	526.5	528.9	474.1	54.84	9.644	
10,450.0	10,443.2	10,116.8	10,059.9	28.5	30.7	74.44	-182.2	537.9	545.7	490.4	55.30	9.869	
10,475.0	10,467.7	10,124.5	10,065.2	28.4	30.8	72.28	-183.9	543.3	562.8	507.1	55.68	10.107	
10,500.0	10,491.9	10,131.8	10,070.2	28.3	30.8	70.13	-185.4	548.5	580.0	523.9	56.07	10.343	
10,525.0	10,515.8	10,150.0	10,082.1	28.3	31.0	68.91	-189.4	561.6	597.4	540.8	56.58	10.560	
10,550.0	10,539.3	10,150.0	10,082.1	28.2	31.0	66.32	-189.4	561.6	614.5	557.6	56.90	10.800	
10,575.0	10,562.2	10,150.0	10,082.1	28.1	31.0	63.73	-189.4	561.6	631.7	574.5	57.21	11.042	
10,600.0	10,584.7	10,150.0	10,082.1	28.0	31.0	61.18	-189.4	561.6	649.0	591.5	57.52	11.284	
10,625.0	10,606.5	10,150.0	10,082.1	27.9	31.0	58.67	-189.4	561.6	666.4	608.6	57.81	11.527	
10,650.0	10,627.6	10,166.4	10,092.4	27.9	31.1	57.79	-193.1	573.8	683.3	625.0	58.28	11.724	
10,675.0	10,648.0	10,170.7	10,095.1	27.8	31.2	55.85	-194.1	577.1	700.3	641.7	58.61	11.949	
10,700.0	10,667.7	10,174.7	10,097.4	27.7	31.2	53.96	-194.9	580.1	717.3	658.4	58.92	12.173	
10,725.0	10,686.5	10,178.2	10,099.6	27.6	31.2	52.12	-195.8	582.8	734.1	674.8	59.22	12.395	
10,750.0	10,704.4	10,181.3	10,101.4	27.6	31.2	50.34	-196.5	585.2	750.7	691.2	59.50	12.616	
10,775.0	10,721.4	10,184.1	10,103.1	27.5	31.2	48.61	-197.1	587.3	767.1	707.4	59.77	12.835	
10,800.0	10,737.4	10,200.0	10,112.2	27.5	31.4	48.15	-200.9	599.8	783.6	723.5	60.18	13.021	
10,825.0	10,752.3	10,200.0	10,112.2	27.4	31.4	46.34	-200.9	599.8	799.6	739.2	60.39	13.240	
10,850.0	10,766.2	10,200.0	10,112.2	27.4	31.4	44.62	-200.9	599.8	815.2	754.7	60.58	13.456	
10,875.0	10,779.0	10,200.0	10,112.2	27.4	31.4	42.99	-200.9	599.8	830.7	769.9	60.76	13.670	
10,900.0	10,790.7	10,200.0	10,112.2	27.3	31.4	41.46	-200.9	599.8	845.8	784.9	60.93	13.882	
10,925.0	10,801.1	10,200.0	10,112.2	27.3	31.4	40.01	-200.9	599.8	860.6	799.5	61.08	14.090	
10,950.0	10,810.4	10,200.0	10,112.2	27.3	31.4	38.66	-200.9	599.8	875.1	813.9	61.22	14.295	
10,975.0	10,818.5	10,200.0	10,112.2	27.3	31.4	37.40	-200.9	599.8	889.2	827.9	61.34	14.496	
11,000.0	10,825.3	10,200.0	10,112.2	27.4	31.4	36.21	-200.9	599.8	903.0	841.5	61.45	14.693	
11,025.0	10,830.8	10,200.0	10,112.2	27.4	31.4	35.11	-200.9	599.8	916.3	854.8	61.55	14.886	
11,050.0	10,835.0	10,200.0	10,112.2	27.5	31.4	34.08	-200.9	599.8	929.2	867.6	61.64	15.075	
11,075.0	10,838.0	10,200.0	10,112.2	27.5	31.4	33.12	-200.9	599.8	941.7	880.0	61.72	15.259	
11,100.0	10,839.6	10,200.0	10,112.2	27.6	31.4	32.23	-200.9	599.8	953.8	892.0	61.78	15.439	
11,119.0	10,840.0	10,200.0	10,112.2	27.7	31.4	31.60	-200.9	599.8	962.6	900.8	61.82	15.573	
11,125.3	10,840.0	10,200.0	10,112.2	27.7	31.4	31.60	-200.9	599.8	965.5	903.7	61.82	15.618	
11,200.0	10,840.0	11,200.2	10,475.0	28.0	40.4	68.43	362.1	1,122.7	997.1	933.6	63.50	15.702	
11,300.0	10,840.0	11,300.1	10,475.0	28.5	41.0	68.36	462.0	1,122.1	992.9	927.8	65.13	15.245	
11,379.4	10,840.0	11,379.5	10,475.0	29.0	41.4	68.35	541.4	1,121.7	991.9	925.4	66.54	14.907	
11,380.4	10,840.0	11,380.6	10,475.0	29.0	41.4	68.35	542.4	1,121.7	991.9	925.3	66.56	14.902	
11,400.0	10,840.0	11,400.1	10,475.0	29.1	41.6	68.35	562.0	1,121.5	991.9	925.0	66.90	14.828	
11,500.0	10,840.0	11,500.1	10,475.0	29.8	42.2	68.35	662.0	1,120.9	992.0	923.2	68.75	14.429	
11,600.0	10,840.0	11,600.1	10,475.0	30.6	43.0	68.35	762.0	1,120.4	992.0	921.2	70.77	14.018	
11,700.0	10,840.0	11,700.1	10,475.0	31.5	43.7	68.35	862.0	1,119.8	992.0	919.1	72.93	13.602	
11,800.0	10,840.0	11,800.1	10,475.0	32.5	44.6	68.35	962.0	1,119.2	992.1	916.8	75.23	13.187	
11,900.0	10,840.0	11,900.1	10,475.0	33.7	45.5	68.35	1,062.0	1,118.6	992.1	914.4	77.65	12.776	
12,000.0	10,840.0	12,000.1	10,475.0	34.9	46.4	68.35	1,162.0	1,118.0	992.1	911.9	80.18	12.374	
12,100.0	10,840.0	12,100.1	10,475.0	36.2	47.4	68.35	1,262.0	1,117.4	992.2	909.4	82.81	11.981	
12,200.0	10,840.0	12,200.1	10,475.0	37.6	48.5	68.35	1,362.0	1,116.8	992.2	906.7	85.53	11.601	
12,300.0	10,840.0	12,300.1	10,475.0	39.1	49.6	68.35	1,462.0	1,116.2	992.2	903.9	88.33	11.234	
12,400.0	10,840.0	12,400.1	10,475.0	40.6	50.8	68.36	1,562.0	1,115.6	992.3	901.1	91.20	10.880	
12,500.0	10,840.0	12,500.1	10,475.0	42.2	52.0	68.36	1,662.0	1,115.0	992.3	898.2	94.14	10.541	

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 555H
Project:	Hat Mesa	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 555H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 555H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 555H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 603H - Anderson Fed Com 603H - Anderson Fed Com 603H - Prelim 1													Offset Site Error: 0.0 usft		
Survey Program: 0-MWD+HRGM				Rule Assigned:										Offset Well Error: 0.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
12,600.0	10,840.0	12,600.1	10,475.0	43.8	53.2	68.36	1,762.0	1,114.5	992.3	895.2	97.14	10.215			
12,700.0	10,840.0	12,700.1	10,475.0	45.4	54.6	68.36	1,862.0	1,113.9	992.4	892.2	100.20	9.904			
12,800.0	10,840.0	12,800.1	10,475.0	47.1	55.9	68.36	1,962.0	1,113.3	992.4	889.1	103.31	9.606			
12,900.0	10,840.0	12,900.1	10,475.0	48.8	57.3	68.36	2,062.0	1,112.7	992.4	886.0	106.47	9.322			
13,000.0	10,840.0	13,000.1	10,475.0	50.6	58.7	68.36	2,162.0	1,112.1	992.5	882.8	109.66	9.050			
13,100.0	10,840.0	13,100.1	10,475.0	52.4	60.2	68.36	2,262.0	1,111.5	992.5	879.6	112.90	8.791			
13,200.0	10,840.0	13,200.1	10,475.0	54.1	61.7	68.36	2,362.0	1,110.9	992.6	876.4	116.17	8.544			
13,300.0	10,840.0	13,300.1	10,475.0	55.9	63.2	68.36	2,462.0	1,110.3	992.6	873.1	119.48	8.308			
13,400.0	10,840.0	13,400.1	10,475.0	57.8	64.7	68.36	2,562.0	1,109.7	992.6	869.8	122.81	8.082			
13,500.0	10,840.0	13,500.1	10,475.0	59.6	66.3	68.36	2,662.0	1,109.1	992.7	866.5	126.18	7.867			
13,600.0	10,840.0	13,600.1	10,475.0	61.4	67.9	68.36	2,762.0	1,108.5	992.7	863.1	129.56	7.662			
13,700.0	10,840.0	13,700.1	10,475.0	63.3	69.5	68.37	2,862.0	1,108.0	992.7	859.7	132.98	7.465			
13,800.0	10,840.0	13,800.1	10,475.0	65.2	71.2	68.37	2,962.0	1,107.4	992.8	856.4	136.41	7.278			
13,900.0	10,840.0	13,900.1	10,475.0	67.0	72.9	68.37	3,062.0	1,106.8	992.8	852.9	139.87	7.098			
14,000.0	10,840.0	14,000.1	10,475.0	68.9	74.5	68.37	3,162.0	1,106.2	992.8	849.5	143.34	6.926			
14,100.0	10,840.0	14,100.1	10,475.0	70.8	76.2	68.37	3,262.0	1,105.6	992.9	846.0	146.83	6.762			
14,200.0	10,840.0	14,200.1	10,475.0	72.7	78.0	68.37	3,362.0	1,105.0	992.9	842.6	150.34	6.604			
14,300.0	10,840.0	14,300.1	10,475.0	74.6	79.7	68.37	3,462.0	1,104.4	992.9	839.1	153.87	6.453			
14,400.0	10,840.0	14,400.1	10,475.0	76.5	81.4	68.37	3,562.0	1,103.8	993.0	835.6	157.40	6.308			
14,500.0	10,840.0	14,500.1	10,475.0	78.4	83.2	68.37	3,662.0	1,103.2	993.0	832.1	160.95	6.169			
14,600.0	10,840.0	14,600.1	10,475.0	80.4	85.0	68.37	3,762.0	1,102.6	993.0	828.5	164.52	6.036			
14,700.0	10,840.0	14,700.1	10,475.0	82.3	86.8	68.37	3,862.0	1,102.1	993.1	825.0	168.09	5.908			
14,800.0	10,840.0	14,800.1	10,475.0	84.2	88.6	68.37	3,961.9	1,101.5	993.1	821.4	171.68	5.785			
14,900.0	10,840.0	14,900.1	10,475.0	86.2	90.4	68.38	4,061.9	1,100.9	993.2	817.9	175.28	5.666			
15,000.0	10,840.0	15,000.1	10,475.0	88.1	92.2	68.38	4,161.9	1,100.3	993.2	814.3	178.89	5.552			
15,100.0	10,840.0	15,100.1	10,475.0	90.0	94.0	68.38	4,261.9	1,099.7	993.2	810.7	182.50	5.442			
15,200.0	10,840.0	15,200.1	10,475.0	92.0	95.8	68.38	4,361.9	1,099.1	993.3	807.1	186.13	5.336			
15,300.0	10,840.0	15,300.1	10,475.0	93.9	97.7	68.38	4,461.9	1,098.5	993.3	803.5	189.76	5.234			
15,400.0	10,840.0	15,400.1	10,475.0	95.9	99.5	68.38	4,561.9	1,097.9	993.3	799.9	193.40	5.136			
15,500.0	10,840.0	15,500.1	10,475.0	97.8	101.4	68.38	4,661.9	1,097.3	993.4	796.3	197.05	5.041			
15,600.0	10,840.0	15,600.1	10,475.0	99.8	103.2	68.38	4,761.9	1,096.7	993.4	792.7	200.70	4.950			
15,700.0	10,840.0	15,700.1	10,475.0	101.8	105.1	68.38	4,861.9	1,096.1	993.4	789.1	204.36	4.861			
15,800.0	10,840.0	15,800.1	10,475.0	103.7	107.0	68.38	4,961.9	1,095.6	993.5	785.4	208.03	4.776			
15,900.0	10,840.0	15,900.1	10,475.0	105.7	108.8	68.38	5,061.9	1,095.0	993.5	781.8	211.70	4.693			
16,000.0	10,840.0	16,000.1	10,475.0	107.7	110.7	68.38	5,161.9	1,094.4	993.5	778.2	215.38	4.613			
16,100.0	10,840.0	16,100.1	10,475.0	109.6	112.6	68.39	5,261.9	1,093.8	993.6	774.5	219.07	4.535			
16,200.0	10,840.0	16,200.1	10,475.0	111.6	114.5	68.39	5,361.9	1,093.2	993.6	770.9	222.76	4.460			
16,300.0	10,840.0	16,300.1	10,475.0	113.6	116.4	68.39	5,461.9	1,092.6	993.6	767.2	226.45	4.388			
16,400.0	10,840.0	16,400.1	10,475.0	115.5	118.3	68.39	5,561.9	1,092.0	993.7	763.5	230.15	4.318			
16,500.0	10,840.0	16,500.1	10,475.0	117.5	120.2	68.39	5,661.9	1,091.4	993.7	759.9	233.85	4.249			
16,600.0	10,840.0	16,600.1	10,475.0	119.5	122.1	68.39	5,761.9	1,090.8	993.7	756.2	237.56	4.183			
16,700.0	10,840.0	16,700.1	10,475.0	121.5	124.0	68.39	5,861.9	1,090.2	993.8	752.5	241.27	4.119			
16,800.0	10,840.0	16,800.1	10,475.0	123.4	125.9	68.39	5,961.9	1,089.7	993.8	748.8	244.99	4.057			
16,900.0	10,840.0	16,900.1	10,475.0	125.4	127.8	68.39	6,061.9	1,089.1	993.9	745.1	248.71	3.996			
17,000.0	10,840.0	17,000.1	10,475.0	127.4	129.8	68.39	6,161.9	1,088.5	993.9	741.5	252.43	3.937			
17,100.0	10,840.0	17,100.1	10,475.0	129.4	131.7	68.39	6,261.9	1,087.9	993.9	737.8	256.15	3.880			
17,200.0	10,840.0	17,200.1	10,475.0	131.4	133.6	68.39	6,361.9	1,087.3	994.0	734.1	259.88	3.825			
17,300.0	10,840.0	17,300.1	10,475.0	133.3	135.5	68.39	6,461.9	1,086.7	994.0	730.4	263.61	3.771			
17,400.0	10,840.0	17,400.1	10,475.0	135.3	137.5	68.40	6,561.9	1,086.1	994.0	726.7	267.35	3.718			
17,500.0	10,840.0	17,500.1	10,475.0	137.3	139.4	68.40	6,661.9	1,085.5	994.1	723.0	271.09	3.667			
17,529.1	10,840.0	17,529.2	10,475.0	137.9	140.0	68.40	6,691.0	1,085.3	994.1	721.9	272.17	3.652			

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 555H
Project:	Hat Mesa	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 555H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 555H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 555H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 703H - Anderson Fed Com 703H - Anderson Fed Com 703H - Prelim 1											Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM											Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Rule Assigned:	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
0.0	0.0	0.0	0.0	0.0	0.0	89.31	0.8	65.7	65.7			
100.0	100.0	100.0	100.0	0.5	0.5	89.31	0.8	65.7	65.7	64.7	1.07	61.470
200.0	200.0	200.0	200.0	1.7	1.7	89.31	0.8	65.7	65.7	62.3	3.43	19.172
300.0	300.0	300.0	300.0	2.4	2.4	89.31	0.8	65.7	65.7	60.9	4.83	13.618
400.0	400.0	400.0	400.0	3.0	3.0	89.31	0.8	65.7	65.7	59.8	5.91	11.119
500.0	500.0	500.0	500.0	3.4	3.4	89.31	0.8	65.7	65.7	58.9	6.83	9.619
600.0	600.0	600.0	600.0	3.8	3.8	89.31	0.8	65.7	65.7	58.1	7.65	8.590
700.0	700.0	700.0	700.0	4.2	4.2	89.31	0.8	65.7	65.7	57.3	8.40	7.828
800.0	800.0	800.0	800.0	4.5	4.5	89.31	0.8	65.7	65.7	56.6	9.09	7.234
900.0	900.0	900.0	900.0	4.9	4.9	89.31	0.8	65.7	65.7	56.0	9.73	6.753
1,000.0	1,000.0	1,000.0	1,000.0	5.2	5.2	89.31	0.8	65.7	65.7	55.4	10.34	6.354
1,100.0	1,100.0	1,100.0	1,100.0	5.5	5.5	89.31	0.8	65.7	65.7	54.8	10.92	6.016
1,200.0	1,200.0	1,200.0	1,200.0	5.7	5.7	89.31	0.8	65.7	65.7	54.2	11.48	5.724
1,300.0	1,300.0	1,300.0	1,300.0	6.0	6.0	89.31	0.8	65.7	65.7	53.7	12.02	5.469
1,400.0	1,400.0	1,400.0	1,400.0	6.3	6.3	89.31	0.8	65.7	65.7	53.2	12.53	5.244
1,500.0	1,500.0	1,500.0	1,500.0	6.5	6.5	89.31	0.8	65.7	65.7	52.7	13.03	5.043
1,600.0	1,600.0	1,600.0	1,600.0	6.8	6.8	89.31	0.8	65.7	65.7	52.2	13.52	4.862
1,700.0	1,700.0	1,700.0	1,700.0	7.0	7.0	89.31	0.8	65.7	65.7	51.7	13.99	4.698
1,800.0	1,800.0	1,800.0	1,800.0	7.2	7.2	89.31	0.8	65.7	65.7	51.3	14.45	4.548
1,900.0	1,900.0	1,900.0	1,900.0	7.5	7.5	89.31	0.8	65.7	65.7	50.8	14.90	4.411
2,000.0	2,000.0	2,000.0	2,000.0	7.7	7.7	89.31	0.8	65.7	65.7	50.4	15.34	4.284
2,100.0	2,100.0	2,100.0	2,100.0	7.9	7.9	89.31	0.8	65.7	65.7	50.0	15.77	4.167
2,200.0	2,200.0	2,200.0	2,200.0	8.1	8.1	89.31	0.8	65.7	65.7	49.5	16.19	4.059
2,300.0	2,300.0	2,300.0	2,300.0	8.3	8.3	89.31	0.8	65.7	65.7	49.1	16.61	3.957
2,400.0	2,400.0	2,400.0	2,400.0	8.5	8.5	89.31	0.8	65.7	65.7	48.7	17.02	3.862
2,500.0	2,500.0	2,500.0	2,500.0	8.7	8.7	89.31	0.8	65.7	65.7	48.3	17.42	3.773
2,600.0	2,600.0	2,600.0	2,600.0	8.9	8.9	89.31	0.8	65.7	65.7	47.9	17.81	3.690
2,700.0	2,700.0	2,700.0	2,700.0	9.1	9.1	89.31	0.8	65.7	65.7	47.5	18.20	3.611
2,800.0	2,800.0	2,800.0	2,800.0	9.3	9.3	89.31	0.8	65.7	65.7	47.1	18.59	3.536
2,900.0	2,900.0	2,900.0	2,900.0	9.5	9.5	89.31	0.8	65.7	65.7	46.8	18.97	3.465
3,000.0	3,000.0	3,000.0	3,000.0	9.7	9.7	89.31	0.8	65.7	65.7	46.4	19.34	3.398
3,100.0	3,100.0	3,100.0	3,100.0	9.9	9.9	89.31	0.8	65.7	65.7	46.0	19.71	3.335
3,200.0	3,200.0	3,200.0	3,200.0	10.0	10.0	89.31	0.8	65.7	65.7	45.6	20.08	3.274
3,300.0	3,300.0	3,300.0	3,300.0	10.2	10.2	89.31	0.8	65.7	65.7	45.3	20.44	3.216
3,400.0	3,400.0	3,400.0	3,400.0	10.4	10.4	89.31	0.8	65.7	65.7	44.9	20.79	3.161
3,500.0	3,500.0	3,500.0	3,500.0	10.6	10.6	89.31	0.8	65.7	65.7	44.6	21.15	3.108
3,600.0	3,600.0	3,600.0	3,600.0	10.7	10.7	89.31	0.8	65.7	65.7	44.2	21.50	3.057
3,700.0	3,700.0	3,700.0	3,700.0	10.9	10.9	89.31	0.8	65.7	65.7	43.9	21.85	3.008
3,800.0	3,800.0	3,800.0	3,800.0	11.1	11.1	89.31	0.8	65.7	65.7	43.5	22.19	2.962
3,900.0	3,900.0	3,900.0	3,900.0	11.3	11.3	89.31	0.8	65.7	65.7	43.2	22.53	2.917
4,000.0	4,000.0	4,000.0	4,000.0	11.4	11.4	89.31	0.8	65.7	65.7	42.9	22.87	2.874
4,100.0	4,100.0	4,100.0	4,100.0	11.6	11.6	89.31	0.8	65.7	65.7	42.5	23.21	2.832
4,200.0	4,200.0	4,200.0	4,200.0	11.8	11.8	89.31	0.8	65.7	65.7	42.2	23.54	2.792
4,300.0	4,300.0	4,300.0	4,300.0	11.9	11.9	89.31	0.8	65.7	65.7	41.9	23.87	2.753
4,400.0	4,400.0	4,400.0	4,400.0	12.1	12.1	89.31	0.8	65.7	65.7	41.5	24.20	2.716
4,500.0	4,500.0	4,500.0	4,500.0	12.3	12.3	89.31	0.8	65.7	65.7	41.2	24.53	2.680
4,600.0	4,600.0	4,600.0	4,600.0	12.4	12.4	89.31	0.8	65.7	65.7	40.9	24.85	2.645
4,700.0	4,700.0	4,700.0	4,700.0	12.6	12.6	89.31	0.8	65.7	65.7	40.6	25.17	2.611
4,800.0	4,800.0	4,800.0	4,800.0	12.7	12.7	89.31	0.8	65.7	65.7	40.2	25.49	2.578
4,900.0	4,900.0	4,900.0	4,900.0	12.9	12.9	89.31	0.8	65.7	65.7	39.9	25.81	2.546
5,000.0	5,000.0	5,000.0	5,000.0	13.1	13.1	89.31	0.8	65.7	65.7	39.6	26.13	2.516
5,100.0	5,100.0	5,100.0	5,100.0	13.2	13.2	89.31	0.8	65.7	65.7	39.3	26.44	2.486

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 555H
Project:	Hat Mesa	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 555H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 555H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 555H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 703H - Anderson Fed Com 703H - Anderson Fed Com 703H - Prelim 1													Offset Site Error: 0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.0 usft
Reference		Offset		Semi Major Axis			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	5,200.0	5,200.0	13.4	13.4	89.31	0.8	65.7	65.7	39.0	26.75	2.457	
5,300.0	5,300.0	5,300.0	5,300.0	13.5	13.5	-54.44	0.8	65.7	65.2	38.2	26.99	2.416	
5,400.0	5,400.0	5,400.0	5,400.0	13.5	13.7	-56.37	0.8	65.7	63.7	36.5	27.22	2.341	
5,501.4	5,501.2	5,501.2	5,501.2	13.6	13.8	-59.83	0.8	65.7	61.4	33.9	27.45	2.236	
5,600.0	5,599.7	5,599.7	5,599.7	13.7	14.0	-64.19	0.8	65.7	58.9	31.3	27.67	2.130	
5,700.0	5,699.6	5,699.0	5,699.0	13.9	14.1	-68.22	0.2	66.4	57.3	29.5	27.83	2.060	
5,789.1	5,788.6	5,787.6	5,787.6	14.0	14.2	-70.74	-1.2	68.1	56.9	29.0	27.96	2.036 CC	
5,800.0	5,799.4	5,798.5	5,798.4	14.0	14.2	-70.97	-1.4	68.3	56.9	28.9	27.97	2.035 ES, SF	
5,900.0	5,899.3	5,897.9	5,897.8	14.2	14.3	-72.25	-4.2	71.6	57.5	29.4	28.12	2.044	
6,000.0	5,999.2	5,997.8	5,997.5	14.3	14.3	-72.48	-7.8	75.8	58.7	30.5	28.24	2.078	
6,100.0	6,099.0	6,097.8	6,097.4	14.5	14.4	-72.67	-11.4	80.1	59.9	31.5	28.41	2.110	
6,200.0	6,198.9	6,197.8	6,197.2	14.7	14.6	-72.86	-15.0	84.3	61.1	32.6	28.58	2.139	
6,300.0	6,298.8	6,297.8	6,297.0	14.9	14.7	-73.04	-18.6	88.6	62.4	33.6	28.77	2.168	
6,400.0	6,398.6	6,397.8	6,396.9	15.1	14.9	-73.21	-22.3	92.8	63.6	34.6	28.95	2.197	
6,500.0	6,498.5	6,497.8	6,496.7	15.4	15.1	-73.37	-25.9	97.0	64.8	35.7	29.15	2.224	
6,600.0	6,598.3	6,597.8	6,596.5	15.6	15.3	-73.53	-29.5	101.3	66.1	36.7	29.35	2.250	
6,700.0	6,698.2	6,697.8	6,696.4	15.9	15.5	-73.68	-33.1	105.5	67.3	37.7	29.56	2.276	
6,800.0	6,798.1	6,797.8	6,796.2	16.1	15.7	-73.82	-36.7	109.8	68.5	38.7	29.77	2.301	
6,900.0	6,897.9	6,897.7	6,896.1	16.4	16.0	-73.97	-40.3	114.0	69.7	39.7	29.99	2.325	
7,000.0	6,997.8	6,997.7	6,995.9	16.7	16.2	-74.10	-43.9	118.2	71.0	40.8	30.21	2.349	
7,100.0	7,097.7	7,097.7	7,095.7	17.0	16.5	-74.23	-47.5	122.5	72.2	41.8	30.44	2.372	
7,200.0	7,197.5	7,197.7	7,195.6	17.3	16.7	-74.36	-51.1	126.7	73.4	42.8	30.67	2.394	
7,300.0	7,297.4	7,297.7	7,295.4	17.6	17.0	-74.48	-54.7	131.0	74.7	43.7	30.91	2.415	
7,400.0	7,397.2	7,397.7	7,395.2	17.9	17.3	-74.60	-58.4	135.2	75.9	44.7	31.15	2.436	
7,500.0	7,497.1	7,497.7	7,495.1	18.3	17.6	-74.72	-62.0	139.5	77.1	45.7	31.40	2.456	
7,600.0	7,597.0	7,597.7	7,594.9	18.6	17.9	-74.83	-65.6	143.7	78.3	46.7	31.65	2.475	
7,700.0	7,696.8	7,697.7	7,694.8	18.9	18.2	-74.94	-69.2	147.9	79.6	47.7	31.90	2.494	
7,800.0	7,796.7	7,797.7	7,794.6	19.3	18.5	-75.04	-72.8	152.2	80.8	48.6	32.16	2.513	
7,900.0	7,896.5	7,897.7	7,894.4	19.6	18.8	-75.14	-76.4	156.4	82.0	49.6	32.42	2.530	
8,000.0	7,996.4	7,997.7	7,994.3	20.0	19.2	-75.24	-80.0	160.7	83.3	50.6	32.69	2.547	
8,100.0	8,096.3	8,097.7	8,094.1	20.3	19.5	-75.34	-83.6	164.9	84.5	51.5	32.96	2.564	
8,200.0	8,196.1	8,197.6	8,193.9	20.7	19.8	-75.43	-87.2	169.2	85.7	52.5	33.23	2.580	
8,300.0	8,296.0	8,297.6	8,293.8	21.1	20.2	-75.52	-90.9	173.4	87.0	53.5	33.51	2.596	
8,400.0	8,395.9	8,397.6	8,393.6	21.4	20.6	-75.61	-94.5	177.6	88.2	54.4	33.79	2.611	
8,500.0	8,495.7	8,497.6	8,493.5	21.8	20.9	-75.70	-98.1	181.9	89.4	55.4	34.07	2.625	
8,600.0	8,595.6	8,597.6	8,593.3	22.2	21.3	-75.78	-101.7	186.1	90.7	56.3	34.35	2.640	
8,700.0	8,695.4	8,697.6	8,693.1	22.6	21.7	-75.86	-105.3	190.4	91.9	57.3	34.64	2.653	
8,800.0	8,795.3	8,797.6	8,793.0	23.0	22.0	-75.94	-108.9	194.6	93.1	58.2	34.93	2.667	
8,900.0	8,895.2	8,897.6	8,892.8	23.4	22.4	-76.02	-112.5	198.8	94.4	59.2	35.22	2.679	
9,000.0	8,995.0	8,997.6	8,992.6	23.8	22.8	-76.09	-116.1	203.1	95.6	60.1	35.52	2.692	
9,100.0	9,094.9	9,097.6	9,092.5	24.2	23.2	-76.16	-119.7	207.3	96.8	61.0	35.81	2.704	
9,200.0	9,194.7	9,197.6	9,192.3	24.6	23.6	-76.23	-123.3	211.6	98.1	62.0	36.11	2.716	
9,300.0	9,294.6	9,297.6	9,292.1	25.0	24.0	-76.30	-127.0	215.8	99.3	62.9	36.42	2.727	
9,400.0	9,394.5	9,397.6	9,392.0	25.4	24.4	-76.37	-130.6	220.1	100.5	63.8	36.72	2.738	
9,500.0	9,494.3	9,497.5	9,491.8	25.8	24.8	-76.44	-134.2	224.3	101.8	64.8	37.03	2.749	
9,600.0	9,594.2	9,597.5	9,591.7	26.2	25.2	-76.50	-137.8	228.5	103.0	65.7	37.34	2.759	
9,700.0	9,694.1	9,697.5	9,691.5	26.6	25.6	-76.56	-141.4	232.8	104.3	66.6	37.65	2.769	
9,800.0	9,793.9	9,797.5	9,791.3	27.0	26.0	-76.62	-145.0	237.0	105.5	67.5	37.96	2.779	
9,900.0	9,893.8	9,897.5	9,891.2	27.5	26.4	-76.68	-148.6	241.3	106.7	68.4	38.28	2.788	
9,955.1	9,948.8	9,952.6	9,946.1	27.7	26.6	-76.72	-150.6	243.6	107.4	69.0	38.43	2.795	
10,000.0	9,993.6	9,997.5	9,991.0	27.9	26.8	-76.66	-152.2	245.5	108.0	69.4	38.57	2.800	
10,100.0	10,093.6	10,097.5	10,090.8	28.2	27.2	-75.89	-155.8	249.8	109.6	70.6	39.07	2.806	

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 555H
Project:	Hat Mesa	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 555H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 555H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 555H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 703H - Anderson Fed Com 703H - Anderson Fed Com 703H - Prelim 1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			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	
10,200.0	10,193.6	10,197.4	10,190.6	28.6	27.7	-74.28	-159.4	254.0	111.7	71.9	39.81	2.806	
10,256.4	10,250.0	10,253.8	10,246.9	28.7	27.9	70.10	-161.5	256.4	113.2	72.9	40.31	2.808	
10,300.0	10,293.6	10,297.3	10,290.3	28.7	28.1	71.15	-163.1	258.2	114.4	73.7	40.73	2.809	
10,369.0	10,362.5	10,366.1	10,359.1	28.7	28.4	72.77	-165.5	261.2	116.4	75.0	41.40	2.812	
10,375.0	10,368.6	10,372.1	10,365.1	28.7	28.4	68.17	-165.8	261.4	116.6	75.1	41.47	2.812	
10,400.0	10,393.5	10,397.1	10,389.9	28.6	28.5	69.13	-166.7	262.5	117.0	75.1	41.86	2.795	
10,425.0	10,418.4	10,421.8	10,414.7	28.6	28.6	70.73	-167.5	263.5	117.0	74.5	42.46	2.756	
10,450.0	10,443.2	10,446.4	10,439.2	28.5	28.7	72.93	-168.4	264.6	116.7	73.4	43.27	2.697	
10,475.0	10,467.7	10,470.7	10,463.5	28.4	28.8	75.74	-169.3	265.6	116.3	71.9	44.31	2.624	
10,500.0	10,491.9	10,494.7	10,487.5	28.3	28.9	79.10	-170.2	266.6	115.8	70.3	45.59	2.541	
10,522.4	10,513.3	10,515.9	10,508.6	28.3	29.0	82.55	-170.9	267.5	115.7	68.8	46.92	2.465	
10,525.0	10,515.8	10,518.3	10,511.0	28.3	29.0	82.97	-171.0	267.6	115.7	68.6	47.09	2.457	
10,550.0	10,539.3	10,541.5	10,534.1	28.2	29.1	87.26	-171.9	268.6	116.0	67.3	48.77	2.379	
10,575.0	10,562.2	10,564.1	10,556.7	28.1	29.2	91.83	-172.7	269.5	117.2	66.7	50.54	2.319	
10,600.0	10,584.7	10,586.1	10,578.7	28.0	29.3	96.55	-173.5	270.5	119.5	67.2	52.30	2.284	
10,625.0	10,606.5	10,607.5	10,600.1	27.9	29.4	101.25	-174.3	271.4	123.1	69.2	53.91	2.283	
10,650.0	10,627.6	10,628.2	10,620.7	27.9	29.5	105.78	-175.0	272.3	128.3	73.0	55.26	2.321	
10,675.0	10,648.0	10,648.1	10,640.6	27.8	29.6	110.01	-175.7	273.1	135.2	78.9	56.29	2.401	
10,700.0	10,667.7	10,667.2	10,659.7	27.7	29.7	113.84	-176.4	273.9	143.8	86.9	56.95	2.525	
10,725.0	10,686.5	10,685.5	10,677.9	27.6	29.7	117.20	-177.1	274.7	154.3	97.0	57.29	2.693	
10,750.0	10,704.4	10,702.8	10,695.2	27.6	29.8	120.06	-177.7	275.4	166.4	109.1	57.35	2.902	
10,775.0	10,721.4	10,719.1	10,711.5	27.5	29.9	122.40	-178.3	276.1	180.2	123.0	57.20	3.150	
10,800.0	10,737.4	10,734.5	10,726.8	27.5	30.0	124.22	-178.8	276.8	195.4	138.5	56.90	3.433	
10,825.0	10,752.3	10,748.8	10,741.1	27.4	30.0	125.51	-179.4	277.4	211.9	155.4	56.52	3.750	
10,850.0	10,766.2	10,762.0	10,754.3	27.4	30.1	126.27	-179.8	277.9	229.7	173.6	56.08	4.096	
10,875.0	10,779.0	10,774.0	10,766.3	27.4	30.1	126.48	-180.3	278.5	248.6	193.0	55.63	4.469	
10,900.0	10,790.7	10,785.0	10,777.2	27.3	30.2	126.09	-180.7	278.9	268.4	213.2	55.17	4.865	
10,925.0	10,801.1	10,794.7	10,786.9	27.3	30.2	125.07	-181.0	279.3	289.1	234.4	54.73	5.282	
10,950.0	10,810.4	10,803.2	10,795.4	27.3	30.3	123.30	-181.3	279.7	310.5	256.2	54.31	5.718	
10,975.0	10,818.5	10,810.4	10,802.7	27.3	30.3	120.69	-181.6	280.0	332.6	278.7	53.91	6.169	
11,000.0	10,825.3	10,816.4	10,808.7	27.4	30.3	117.05	-181.8	280.3	355.2	301.7	53.54	6.634	
11,025.0	10,830.8	10,821.2	10,813.4	27.4	30.3	112.20	-182.0	280.5	378.3	325.1	53.20	7.110	
11,050.0	10,835.0	10,824.6	10,816.8	27.5	30.3	105.92	-182.1	280.6	401.7	348.8	52.89	7.595	
11,075.0	10,838.0	10,826.8	10,819.0	27.5	30.4	98.09	-182.2	280.7	425.4	372.8	52.60	8.088	
11,100.0	10,839.6	10,827.6	10,819.8	27.6	30.4	88.79	-182.2	280.7	449.3	396.9	52.33	8.585	
11,119.0	10,840.0	10,827.3	10,819.6	27.7	30.4	80.98	-182.2	280.7	467.5	415.3	52.15	8.964	
11,125.3	10,840.0	10,827.1	10,819.4	27.7	30.4	80.89	-182.2	280.7	473.6	421.5	52.09	9.092	
11,200.0	10,840.0	10,824.7	10,816.9	28.0	30.3	78.71	-182.1	280.6	546.0	494.4	51.52	10.598	
11,300.0	10,840.0	10,821.2	10,813.5	28.5	30.3	74.42	-182.0	280.5	644.2	593.2	51.03	12.624	
11,380.4	10,840.0	10,818.4	10,810.6	29.0	30.3	68.85	-181.9	280.3	724.0	673.2	50.80	14.250	
11,400.0	10,840.0	10,817.6	10,809.9	29.1	30.3	68.38	-181.8	280.3	743.4	692.6	50.76	14.645	
11,500.0	10,840.0	10,814.0	10,806.2	29.8	30.3	66.01	-181.7	280.2	842.9	792.3	50.59	16.662	
11,600.0	10,840.0	10,810.4	10,802.6	30.6	30.3	63.72	-181.6	280.0	942.4	892.0	50.46	18.677	

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 555H
Project:	Hat Mesa	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 555H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 555H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 555H - Prelim 1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 3698.0usft (Original Well Ele

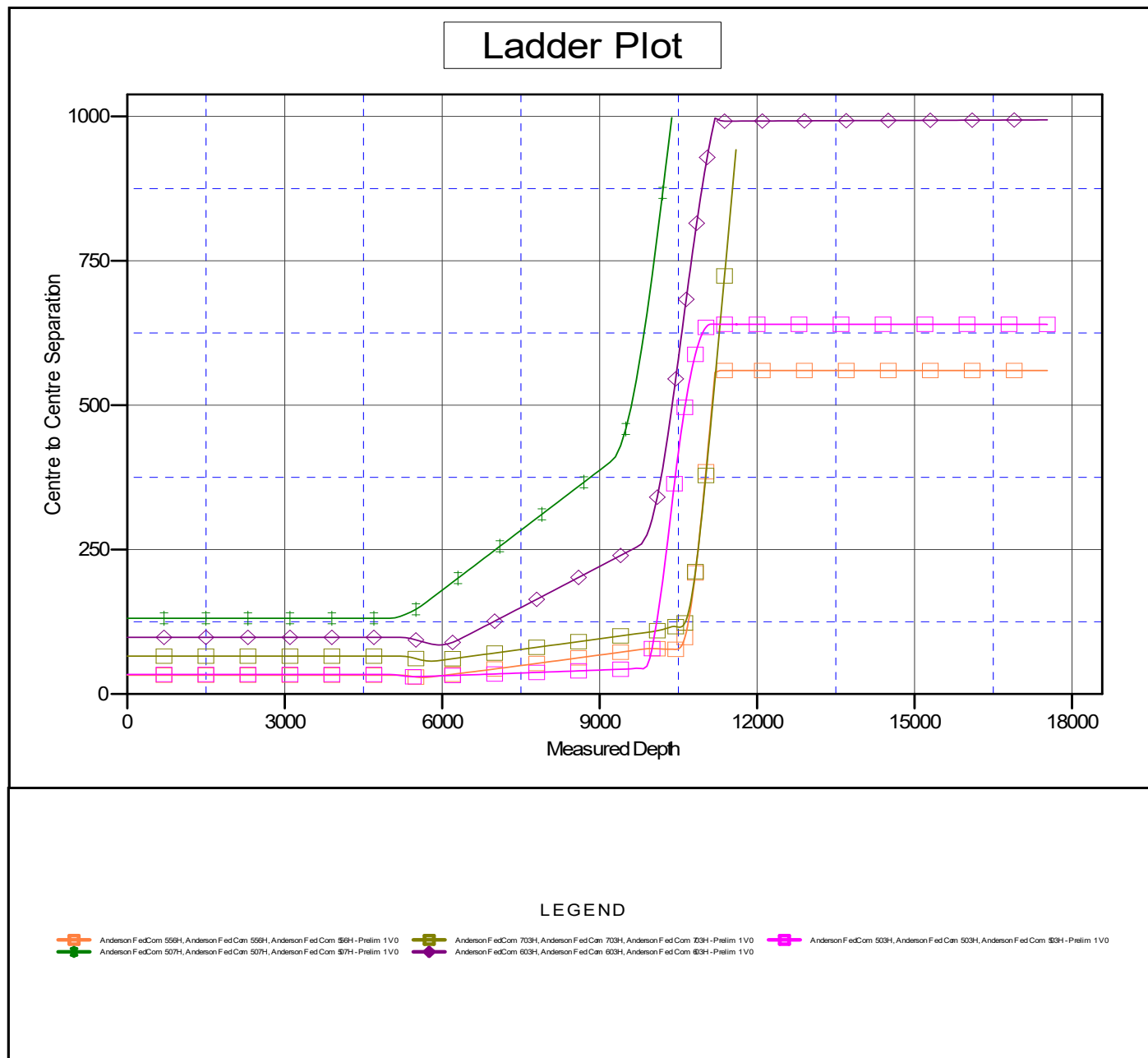
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Anderson Fed Com 555H

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 555H
Project:	Hat Mesa	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 555H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 555H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 555H - Prelim 1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 3698.0usft (Original Well Ele

Offset Depths are relative to Offset Datum

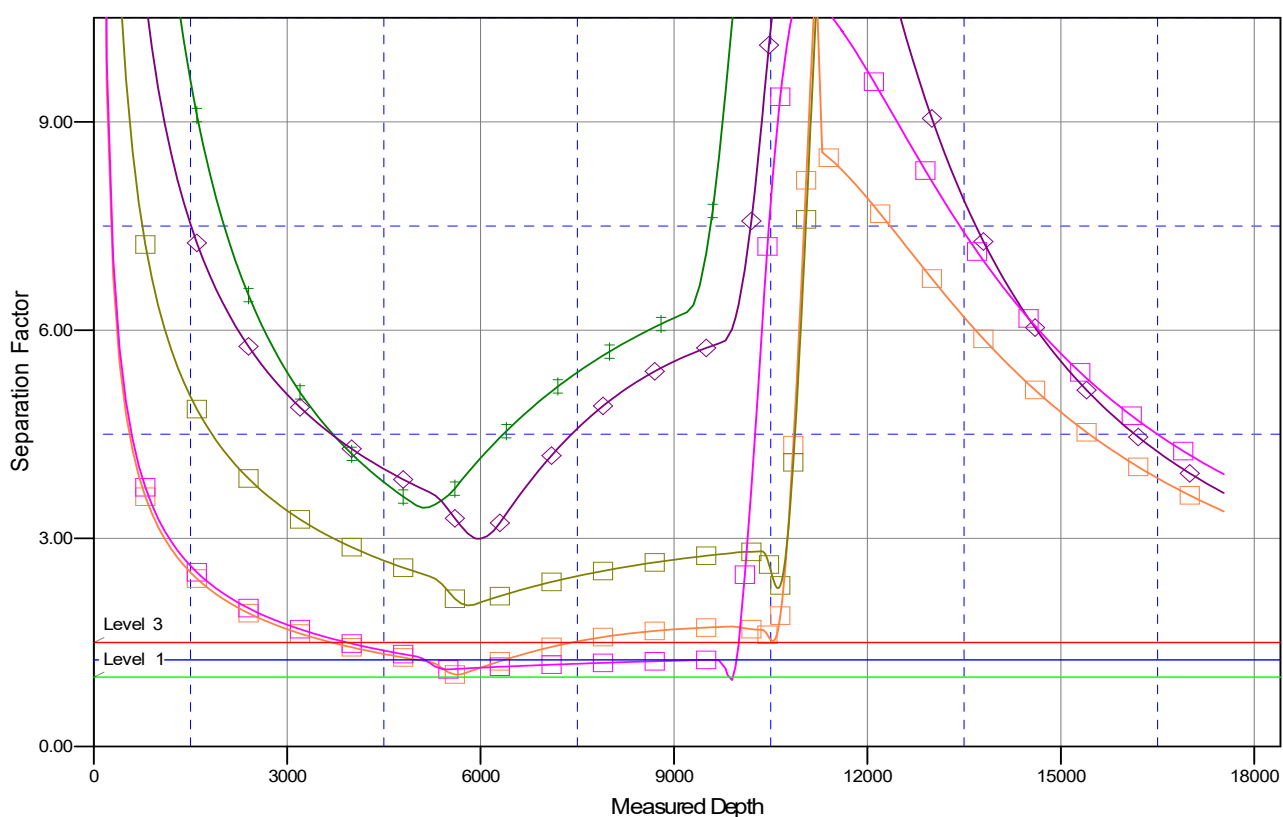
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Anderson Fed Com 555H

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 555H, Anderson Fed Com 555H, Anderson Fed Com 555H - Prelim 1 V0
 ■ Anderson Fed Com 703H, Anderson Fed Com 703H, Anderson Fed Com 703H - Prelim 1 V0
 ■ Anderson Fed Com 503H, Anderson Fed Com 503H, Anderson Fed Com 503H - Prelim 1 V0
■ Anderson Fed Com 603H, Anderson Fed Com 603H, Anderson Fed Com 603H - Prelim 1 V0

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: Advance Energy Partners Hat Mesa, LLC **OGRID:** 372417 **Date:** 8/9/21

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 503H	30-025-48994	B-2-22S-32E	180 FNL & 2413 FEL	1280	1500	3200
Anderson Fed Com 555H	30-025-48999	B-2-22S-32E	180 FNL & 2380 FEL	1280	1500	3200
Anderson Fed Com 556H	30-025-49000	B-2-22S-32E	180 FNL & 2347 FEL	1280	1500	3200
Anderson Fed Com 603H	30-025-49003	B-2-22S-32E	180 FNL & 2314 FEL	1280	1500	3200

IV. Central Delivery Point Name: Anderson Fed Com Pad B [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 503H	30-025-48994	8/20/21	9/29/21	12/30/21	2/5/22	4/1/22
Anderson Fed Com 555H	30-025-48999	8/17/21	9/20/21	12/30/21	2/5/22	4/1/22
Anderson Fed Com 556H	30-025-49000	8/17/21	9/02/21	12/30/21	2/5/22	4/1/22
Anderson Fed Com 603H	30-025-49003	8/11/21	9/11/21	12/30/21	2/5/222	4/1/22

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: <i>Cory Walk</i>
Printed Name: Cory Walk
Title: Consultant
E-mail Address: cory@permitswest.com
Date: 8/9/2021
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.

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

CONDITIONS

Action 40822

CONDITIONS

Operator: ADVANCE ENERGY PARTNERS HAT MESA, LLC 11490 Westheimer Rd., Ste 950 Houston, TX 77077	OGRID: 372417
	Action Number: 40822
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	9/30/2021