

Well Name: ANDERSON FED COM	Well Location: T22S / R32E / SEC 2 / LOT 3 /	County or Parish/State:
Well Number: 554H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM120905	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002548998	Well Status: Approved Application for Permit to Drill	Operator: ADVANCE ENERGY PARTNERS HAT MESA LLC

Notice of Intent

Type of Submission: Notice of Intent	Type of Action Other
Date Sundry Submitted: 08/06/2021	Time Sundry Submitted: 11:31
Date proposed operation will begin: 08/13/2021	

Procedure Description: Request to move Bottom Hole Location from 1220' FSL & 2310' FWL, Section 26, T-21-S, R-32-E, SESW to 1220' FSL & 2178' FWL, Section 26, T-21-S, R-32-E, SESW. 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_554H_BHL_etc_Sundry_Attachment_20210806113034.pdf

Well Name: ANDERSON FED COM	Well Location: T22S / R32E / SEC 2 / LOT 3 /	County or Parish/State:
Well Number: 554H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM120905	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002548998	Well Status: Approved Application for Permit to Drill	Operator: ADVANCE ENERGY PARTNERS HAT MESA LLC

Operator Certification

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

Operator Electronic Signature: BRIAN WOOD	Signed on: AUG 06, 2021 11:30 AM
Name: ADVANCE ENERGY PARTNERS HAT MESA LLC	
Title: President	
Street Address: 37 VERANO LOOP	
City: SANTA FE	State: NM
Phone: (505) 466-8120	
Email address: AFMSS@PERMITSWEST.COM	

Field Representative

Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5752342234	BLM POC Email Address: cwalls@blm.gov
Disposition: Approved	Disposition Date: 08/09/2021
Signature: Chris Walls	

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

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

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

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

State of New Mexico
Energy, Minerals and Natural Resources Department

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

Form C-102

Revised August 4, 2011

Submit one copy to appropriate
District Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-48998	Pool Code 51683	Pool Name Red Tank; Bone Spring
Property Code 326484	Property Name ANDERSON FED COM	Well Number 554H
OGRID No. 372417	Operator Name ADVANCE ENERGY PARTNERS HAT MESA, LLC	Elevation 3671'

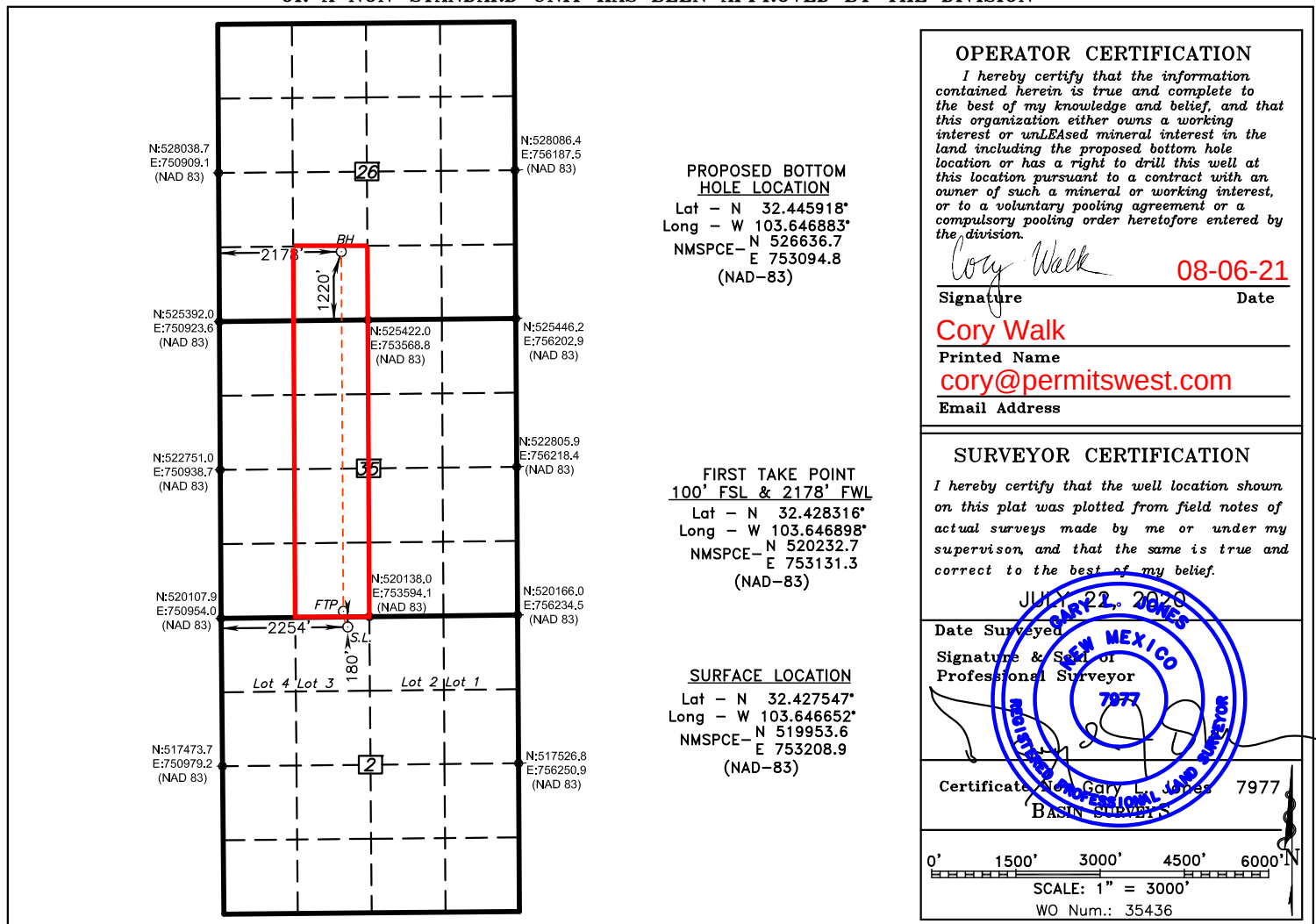
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	SOUTH/South line	Feet from the	East/West line	County
LOT 3	2	22 S	32 E		180	NORTH	2254	WEST	LEA

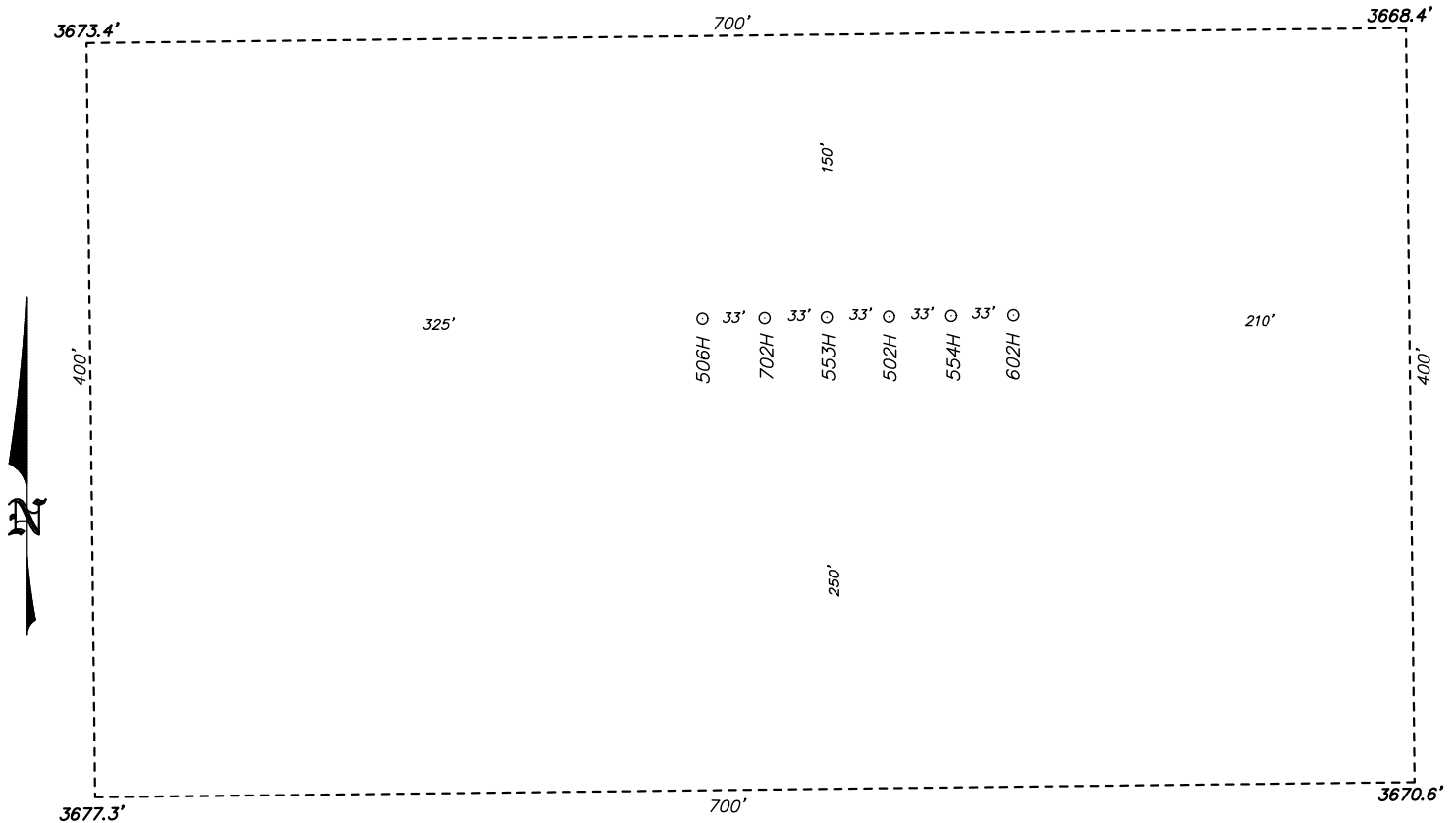
Bottom Hole Location If Different From Surface

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

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



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



basin
surveys
focused on excellence
in the oilfield

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

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

ADVANCE ENERGY PARTNERS HAT MESA, LLC

REF: ANDERSON FED COM 554H / WELL PAD TOPO

THE ANDERSON FED COM 554H LOCATED 180' FROM
THE NORTH LINE AND 2254' FROM THE WEST LINE OF
SECTION 2, TOWNSHIP 22 SOUTH, RANGE 32 EAST.

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

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

Move First Take Point

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

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

Move Bottom Hole Location

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

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

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

Advance Energy Partners Hat Mesa, LLC
 Anderson Fed Com 554H
 SHL 180' FNL & 2254' FWL Sec. 2, T. 22 S., R. 32 E.
 BHL 1220' FSL & 2178' FWL Sec. 26, T 21 S., R. 32 E.
 Lea County, NM

DRILL PLAN PAGE 1

Drilling Program

1. ESTIMATED TOPS

Formation	TVD	MD	Bearing
Quaternary caliche	000'	000'	water
Rustler anhydrite (surf. casing set @ 1231')	1206'	1206'	N/A
Top salt	1261'	1261'	N/A
Tansil limestone (inter. casing set @ 4734')	3296'	3296'	N/A
Bell Canyon limestone	4784'	4784'	hydrocarbons
Cherry Canyon sandstone	5680'	5681'	hydrocarbons
Lower Brushy Canyon sandstone	8431'	8433'	hydrocarbons
Avalon shale	8951'	8954'	hydrocarbons
1 st Bone Spring sandstone	9818'	9854'	hydrocarbons
2 nd Bone Spring sandstone	10406'	10410'	hydrocarbons
(KOP	10673'	10677'	hydrocarbons)
3 rd Bone Spring carbonate	10984'	11016'	hydrocarbons
TD	11150'	17836'	hydrocarbons

2. NOTABLE ZONES

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

3. PRESSURE CONTROL

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

Advance Energy Partners Hat Mesa, LLC

DRILL PLAN PAGE 2

Anderson Fed Com 554H

SHL 180' FNL & 2254' FWL Sec. 2, T. 22 S., R. 32 E.

BHL 1220' FSL & 2178' FWL Sec. 26, T 21 S., R. 32 E.

Lea County, NM

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.

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' - 1231'	0' - 1231'	Surface 13.375"	54.5	J-55	BTC	1.125	1.125	1.6
12.25"	0' - 4000'	0' - 4000'	Intermed. 9.625"	40	J-55	LTC	1.125	1.125	1.6
12.25"	4000' - 4734'	4000' - 4734'	Intermed. 9.625"	40	HCL-80	LTC	1.125	1.125	1.6
8.5"	0' - 17836'	0' - 11150'	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 be allow presetting the surface casing, then the primary rig will drill all of the well.

Advance Energy Partners Hat Mesa, LLC

DRILL PLAN PAGE 3

Anderson Fed Com 554H

SHL 180' FNL & 2254' FWL Sec. 2, T. 22 S., R. 32 E.

BHL 1220' FSL & 2178' FWL Sec. 26, T 21 S., R. 32 E.

Lea County, NM

Name	Type	Top MD	Sacks	Yield	Cu. Ft	Weight	Excess	Cement	Additives
Surface	Lead	0	510	1.9	969	12.8	50%	B Poz + C	6% Gel + 5% SALT + 0.25PPS Pol-E-Flake + 0.005GPS NoFoam V1A
	Tail	931	215	1.35	290	14.8	20%	C	2% CaCl ₂ + 0.005GPS NoFoam V1A
1st Intermediate (stage 1)	Lead	2800	1380	1.84	2539	12.8	718%	B Poz + C	2% Gel + 5% SALT + 0.15% R-1300 + 0.25PPS Pol-E-Flake + 0.005GPS NoFoam V1A
	Tail	3787	275	1.37	377	14.8	20%	C	5% SALT + 0.005GPS NoFoam V1A
1st Intermediate (stage 2)	Lead	0	460	3.00	1380	11	153%	ProLite	5PPS Plexcrete STE + 2% SMS + 0.05% SuspendaCem 6302 + 0.5% C-47B + 3PPS Gilsonite + 0.005GPS NoFoam V1A
	Tail	2395	100	1.33	133	14.8	0%	C	0.005GPS NoFoam V1A
Production	Lead	0	970	3.39	3288	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	10677	1630	1.22	1989	14.5	20%	B Poz + H	5% SALT + 0.05% SuspendaCem 6302 + 0.65% C-20 + 0.5% C-47B + 0.005GPS NoFoam V1A

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

5. MUD PROGRAM

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

Advance Energy Partners Hat Mesa, LLC

DRILL PLAN PAGE 4

Anderson Fed Com 554H

SHL 180' FNL & 2254' FWL Sec. 2, T. 22 S., R. 32 E.

BHL 1220' FSL & 2178' FWL Sec. 26, T 21 S., R. 32 E.

Lea County, NM

Type	Interval (MD)	lb/gal	Viscosity	Fluid Loss ml/30 mins
fresh water	0' - 1231'	8.4 - 10.0	28 - 36	N/C
Brine	1231' - 4734'	10.0 - 10.5	28 - 29	N/C
Cut Brine	4734' - 10677'	9.2 - 9.5	28 - 30	N/C
OBM	10677' - 17836'	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 ≈ 5586 psi. Expected bottom hole temperature is $\approx 236^{\circ}$ 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 554H**

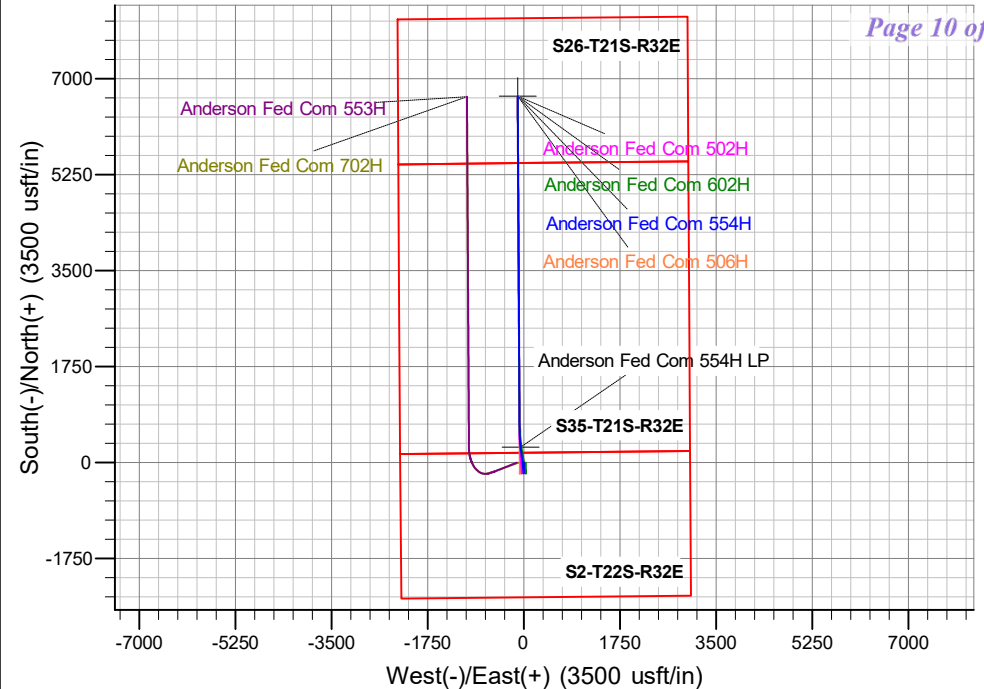
Ground Elev: 3671.0 KB: 3703.5

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	519953.57	753209.01	32° 25' 39.169 N	103° 38' 47.947 W

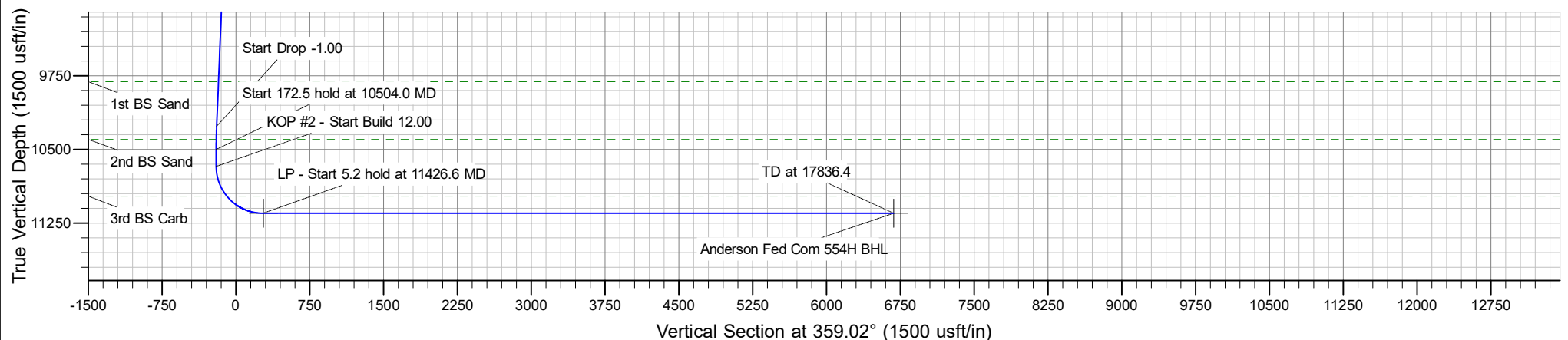
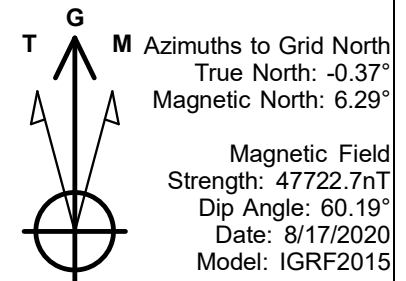
PROJECT DETAILS: Hat Mesa

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	5400.0	0.00	0.00	5400.0	0.0	0.0	0.00	0.00	0.0	KOP - Start Build 1.00
3	5635.5	2.35	180.86	5635.4	-4.8	-0.1	1.00	180.86	-4.8	Start 4633.1 hold at 5635.5 MD
4	10268.6	2.35	180.86	10264.6	-195.2	-2.9	0.00	0.00	-195.1	Start Drop -1.00
5	10504.0	0.00	0.00	10500.0	-200.0	-3.0	1.00	180.00	-199.9	Start 172.5 hold at 10504.0 MD
6	10676.6	0.00	0.00	10672.5	-200.0	-3.0	0.00	0.00	-199.9	KOP #2 - Start Build 12.00
7	11426.6	90.00	353.22	11150.0	274.1	-59.4	12.00	353.22	275.1	LP - Start 5.2 hold at 11426.6 MD
8	11431.8	90.00	353.22	11150.0	279.3	-60.0	0.00	0.00	280.3	Start DLS 2.00 TFO 90.00
9	11754.8	90.00	359.68	11150.0	601.5	-80.0	2.00	90.00	602.8	Start 6081.6 hold at 11754.8 MD
10	17836.4	90.00	359.68	11150.0	6683.0	-114.2	0.00	0.00	6684.0	TD at 17836.4





Advance Energy Partners

Hat Mesa

Anderson Fed Com - Pad C

Anderson Fed Com 554H

Anderson Fed Com 554H

Plan: Anderson Fed Com 554H - Prelim 2

Standard Planning Report

28 July, 2021



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Anderson Fed Com 554H
Company:	Advance Energy Partners	TVD Reference:	WELL @ 3703.5usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3703.5usft (Original Well Elev)
Site:	Anderson Fed Com - Pad C	North Reference:	Grid
Well:	Anderson Fed Com 554H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 554H		
Design:	Anderson Fed Com 554H - Prelim 2		

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

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

Well	Anderson Fed Com 554H					
Well Position	+N/-S	0.0 usft	Northing:	519,953.57 usft	Latitude:	32° 25' 39.169 N
	+E/-W	0.0 usft	Easting:	753,209.01 usft	Longitude:	103° 38' 47.947 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,671.0 usft
Grid Convergence:		0.37 °				

Wellbore	Anderson Fed Com 554H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	8/17/2020	6.66	60.19	47,722.65570118

Design	Anderson Fed Com 554H - Prelim 2				
Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	359.02	

Plan Survey Tool Program	Date	7/28/2021			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	17,836.4	Anderson Fed Com 554H - Prelim	MWD+HRGM	
			OWSG MWD + HRGM		



Planning Report

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Company:	Advance Energy Partners	TVD Reference:	WELL @ 3703.5usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3703.5usft (Original Well Elev)
Site:	Anderson Fed Com - Pad C	North Reference:	Grid
Well:	Anderson Fed Com 554H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 554H		
Design:	Anderson Fed Com 554H - Prelim 2		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,635.5	2.35	180.86	5,635.4	-4.8	-0.1	1.00	1.00	0.00	180.86	
10,268.6	2.35	180.86	10,264.6	-195.2	-2.9	0.00	0.00	0.00	0.00	
10,504.0	0.00	0.00	10,500.0	-200.0	-3.0	1.00	-1.00	0.00	180.00	
10,676.6	0.00	0.00	10,672.5	-200.0	-3.0	0.00	0.00	0.00	0.00	
11,426.6	90.00	353.22	11,150.0	274.1	-59.4	12.00	12.00	0.00	353.22	
11,431.8	90.00	353.22	11,150.0	279.3	-60.0	0.00	0.00	0.00	0.00	Anderson Fed Com 5
11,754.8	90.00	359.68	11,150.0	601.5	-80.0	2.00	0.00	2.00	90.00	
17,836.4	90.00	359.68	11,150.0	6,683.0	-114.2	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 554H
Company:	Advance Energy Partners	TVD Reference:	WELL @ 3703.5usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3703.5usft (Original Well Elev)
Site:	Anderson Fed Com - Pad C	North Reference:	Grid
Well:	Anderson Fed Com 554H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 554H		
Design:	Anderson Fed Com 554H - Prelim 2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,198.0	0.00	0.00	1,198.0	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
4,776.0	0.00	0.00	4,776.0	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 554H
Company:	Advance Energy Partners	TVD Reference:	WELL @ 3703.5usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3703.5usft (Original Well Elev)
Site:	Anderson Fed Com - Pad C	North Reference:	Grid
Well:	Anderson Fed Com 554H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 554H		
Design:	Anderson Fed Com 554H - Prelim 2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP - Start Build 1.00									
5,500.0	1.00	180.86	5,500.0	-0.9	0.0	-0.9	1.00	1.00	0.00
5,600.0	2.00	180.86	5,600.0	-3.5	-0.1	-3.5	1.00	1.00	0.00
5,635.5	2.35	180.86	5,635.4	-4.8	-0.1	-4.8	1.00	1.00	0.00
Start 4633.1 hold at 5635.5 MD									
5,700.0	2.35	180.86	5,699.9	-7.5	-0.1	-7.5	0.00	0.00	0.00
5,800.0	2.35	180.86	5,799.8	-11.6	-0.2	-11.6	0.00	0.00	0.00
5,900.0	2.35	180.86	5,899.7	-15.7	-0.2	-15.7	0.00	0.00	0.00
6,000.0	2.35	180.86	5,999.6	-19.8	-0.3	-19.8	0.00	0.00	0.00
6,100.0	2.35	180.86	6,099.5	-23.9	-0.4	-23.9	0.00	0.00	0.00
6,200.0	2.35	180.86	6,199.5	-28.0	-0.4	-28.0	0.00	0.00	0.00
6,300.0	2.35	180.86	6,299.4	-32.1	-0.5	-32.1	0.00	0.00	0.00
6,400.0	2.35	180.86	6,399.3	-36.2	-0.5	-36.2	0.00	0.00	0.00
6,500.0	2.35	180.86	6,499.2	-40.4	-0.6	-40.3	0.00	0.00	0.00
6,600.0	2.35	180.86	6,599.1	-44.5	-0.7	-44.4	0.00	0.00	0.00
6,700.0	2.35	180.86	6,699.0	-48.6	-0.7	-48.5	0.00	0.00	0.00
6,800.0	2.35	180.86	6,799.0	-52.7	-0.8	-52.7	0.00	0.00	0.00
6,900.0	2.35	180.86	6,898.9	-56.8	-0.9	-56.8	0.00	0.00	0.00
7,000.0	2.35	180.86	6,998.8	-60.9	-0.9	-60.9	0.00	0.00	0.00
7,100.0	2.35	180.86	7,098.7	-65.0	-1.0	-65.0	0.00	0.00	0.00
7,200.0	2.35	180.86	7,198.6	-69.1	-1.0	-69.1	0.00	0.00	0.00
7,300.0	2.35	180.86	7,298.5	-73.2	-1.1	-73.2	0.00	0.00	0.00
7,400.0	2.35	180.86	7,398.4	-77.3	-1.2	-77.3	0.00	0.00	0.00
7,500.0	2.35	180.86	7,498.4	-81.4	-1.2	-81.4	0.00	0.00	0.00
7,600.0	2.35	180.86	7,598.3	-85.5	-1.3	-85.5	0.00	0.00	0.00
7,700.0	2.35	180.86	7,698.2	-89.6	-1.3	-89.6	0.00	0.00	0.00
7,800.0	2.35	180.86	7,798.1	-93.8	-1.4	-93.7	0.00	0.00	0.00
7,900.0	2.35	180.86	7,898.0	-97.9	-1.5	-97.8	0.00	0.00	0.00
8,000.0	2.35	180.86	7,997.9	-102.0	-1.5	-101.9	0.00	0.00	0.00
8,100.0	2.35	180.86	8,097.9	-106.1	-1.6	-106.0	0.00	0.00	0.00
8,200.0	2.35	180.86	8,197.8	-110.2	-1.7	-110.1	0.00	0.00	0.00
8,300.0	2.35	180.86	8,297.7	-114.3	-1.7	-114.2	0.00	0.00	0.00
8,400.0	2.35	180.86	8,397.6	-118.4	-1.8	-118.4	0.00	0.00	0.00
8,425.4	2.35	180.86	8,423.0	-119.4	-1.8	-119.4	0.00	0.00	0.00
Lower Brushy									
8,500.0	2.35	180.86	8,497.5	-122.5	-1.8	-122.5	0.00	0.00	0.00
8,600.0	2.35	180.86	8,597.4	-126.6	-1.9	-126.6	0.00	0.00	0.00
8,700.0	2.35	180.86	8,697.3	-130.7	-2.0	-130.7	0.00	0.00	0.00
8,800.0	2.35	180.86	8,797.3	-134.8	-2.0	-134.8	0.00	0.00	0.00
8,900.0	2.35	180.86	8,897.2	-138.9	-2.1	-138.9	0.00	0.00	0.00
8,945.9	2.35	180.86	8,943.0	-140.8	-2.1	-140.8	0.00	0.00	0.00
Avalon									
9,000.0	2.35	180.86	8,997.1	-143.1	-2.1	-143.0	0.00	0.00	0.00
9,100.0	2.35	180.86	9,097.0	-147.2	-2.2	-147.1	0.00	0.00	0.00
9,200.0	2.35	180.86	9,196.9	-151.3	-2.3	-151.2	0.00	0.00	0.00
9,300.0	2.35	180.86	9,296.8	-155.4	-2.3	-155.3	0.00	0.00	0.00
9,400.0	2.35	180.86	9,396.8	-159.5	-2.4	-159.4	0.00	0.00	0.00
9,500.0	2.35	180.86	9,496.7	-163.6	-2.5	-163.5	0.00	0.00	0.00



Planning Report

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Project:	Hat Mesa	MD Reference:	WELL @ 3703.5usft (Original Well Elev)
Site:	Anderson Fed Com - Pad C	North Reference:	Grid
Well:	Anderson Fed Com 554H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 554H		
Design:	Anderson Fed Com 554H - Prelim 2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,600.0	2.35	180.86	9,596.6	-167.7	-2.5	-167.6	0.00	0.00	0.00
9,700.0	2.35	180.86	9,696.5	-171.8	-2.6	-171.7	0.00	0.00	0.00
9,800.0	2.35	180.86	9,796.4	-175.9	-2.6	-175.8	0.00	0.00	0.00
9,813.6	2.35	180.86	9,810.0	-176.5	-2.6	-176.4	0.00	0.00	0.00
1st BS Sand									
9,900.0	2.35	180.86	9,896.3	-180.0	-2.7	-179.9	0.00	0.00	0.00
10,000.0	2.35	180.86	9,996.2	-184.1	-2.8	-184.1	0.00	0.00	0.00
10,100.0	2.35	180.86	10,096.2	-188.2	-2.8	-188.2	0.00	0.00	0.00
10,200.0	2.35	180.86	10,196.1	-192.3	-2.9	-192.3	0.00	0.00	0.00
10,268.6	2.35	180.86	10,264.6	-195.2	-2.9	-195.1	0.00	0.00	0.00
Start Drop -1.00									
10,300.0	2.04	180.86	10,296.0	-196.4	-2.9	-196.3	1.00	-1.00	0.00
10,400.0	1.04	180.86	10,396.0	-199.1	-3.0	-199.0	1.00	-1.00	0.00
10,402.0	1.02	180.86	10,398.0	-199.1	-3.0	-199.0	1.00	-1.00	0.00
2nd BS Sand									
10,500.0	0.04	180.86	10,496.0	-200.0	-3.0	-199.9	1.00	-1.00	0.00
10,504.0	0.00	0.00	10,500.0	-200.0	-3.0	-199.9	1.00	-1.00	4,429.44
Start 172.5 hold at 10504.0 MD									
10,600.0	0.00	0.00	10,596.0	-200.0	-3.0	-199.9	0.00	0.00	0.00
10,676.6	0.00	0.00	10,672.5	-200.0	-3.0	-199.9	0.00	0.00	0.00
KOP #2 - Start Build 12.00									
10,700.0	2.81	353.22	10,695.9	-199.4	-3.1	-199.3	12.00	12.00	0.00
10,800.0	14.81	353.22	10,794.6	-184.2	-4.9	-184.1	12.00	12.00	0.00
10,900.0	26.81	353.22	10,887.9	-149.0	-9.1	-148.9	12.00	12.00	0.00
11,000.0	38.81	353.22	10,971.8	-95.3	-15.4	-95.0	12.00	12.00	0.00
11,005.4	39.46	353.22	10,976.0	-91.9	-15.9	-91.6	12.00	12.00	0.00
3rd BS Carb									
11,100.0	50.81	353.22	11,042.6	-25.5	-23.8	-25.1	12.00	12.00	0.00
11,200.0	62.81	353.22	11,097.2	57.5	-33.6	58.0	12.00	12.00	0.00
11,300.0	74.81	353.22	11,133.3	149.9	-44.6	150.6	12.00	12.00	0.00
11,400.0	86.81	353.22	11,149.3	247.7	-56.2	248.7	12.00	12.00	0.00
11,426.6	90.00	353.22	11,150.0	274.1	-59.4	275.1	12.00	12.00	0.00
LP - Start 5.2 hold at 11426.6 MD									
11,431.8	90.00	353.22	11,150.0	279.3	-60.0	280.3	0.00	0.00	0.00
Start DLS 2.00 TFO 90.00 - Anderson Fed Com 554H LP									
11,500.0	90.00	354.58	11,150.0	347.1	-67.3	348.2	2.00	0.00	2.00
11,600.0	90.00	356.58	11,150.0	446.8	-75.0	448.0	2.00	0.00	2.00
11,700.0	90.00	358.58	11,150.0	546.7	-79.2	548.0	2.00	0.00	2.00
11,754.8	90.00	359.68	11,150.0	601.5	-80.0	602.8	2.00	0.00	2.00
Start 6081.6 hold at 11754.8 MD									
11,800.0	90.00	359.68	11,150.0	646.7	-80.3	648.0	0.00	0.00	0.00
11,900.0	90.00	359.68	11,150.0	746.7	-80.8	748.0	0.00	0.00	0.00
12,000.0	90.00	359.68	11,150.0	846.7	-81.4	848.0	0.00	0.00	0.00
12,100.0	90.00	359.68	11,150.0	946.7	-81.9	948.0	0.00	0.00	0.00
12,200.0	90.00	359.68	11,150.0	1,046.7	-82.5	1,048.0	0.00	0.00	0.00
12,300.0	90.00	359.68	11,150.0	1,146.7	-83.1	1,148.0	0.00	0.00	0.00
12,400.0	90.00	359.68	11,150.0	1,246.7	-83.6	1,248.0	0.00	0.00	0.00
12,500.0	90.00	359.68	11,150.0	1,346.7	-84.2	1,347.9	0.00	0.00	0.00
12,600.0	90.00	359.68	11,150.0	1,446.7	-84.8	1,447.9	0.00	0.00	0.00
12,700.0	90.00	359.68	11,150.0	1,546.7	-85.3	1,547.9	0.00	0.00	0.00
12,800.0	90.00	359.68	11,150.0	1,646.7	-85.9	1,647.9	0.00	0.00	0.00
12,900.0	90.00	359.68	11,150.0	1,746.7	-86.4	1,747.9	0.00	0.00	0.00
13,000.0	90.00	359.68	11,150.0	1,846.7	-87.0	1,847.9	0.00	0.00	0.00



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Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,100.0	90.00	359.68	11,150.0	1,946.7	-87.6	1,947.9	0.00	0.00	0.00
13,200.0	90.00	359.68	11,150.0	2,046.7	-88.1	2,047.9	0.00	0.00	0.00
13,300.0	90.00	359.68	11,150.0	2,146.7	-88.7	2,147.9	0.00	0.00	0.00
13,400.0	90.00	359.68	11,150.0	2,246.7	-89.3	2,247.9	0.00	0.00	0.00
13,500.0	90.00	359.68	11,150.0	2,346.7	-89.8	2,347.9	0.00	0.00	0.00
13,600.0	90.00	359.68	11,150.0	2,446.7	-90.4	2,447.9	0.00	0.00	0.00
13,700.0	90.00	359.68	11,150.0	2,546.7	-90.9	2,547.9	0.00	0.00	0.00
13,800.0	90.00	359.68	11,150.0	2,646.7	-91.5	2,647.9	0.00	0.00	0.00
13,900.0	90.00	359.68	11,150.0	2,746.7	-92.1	2,747.9	0.00	0.00	0.00
14,000.0	90.00	359.68	11,150.0	2,846.7	-92.6	2,847.8	0.00	0.00	0.00
14,100.0	90.00	359.68	11,150.0	2,946.7	-93.2	2,947.8	0.00	0.00	0.00
14,200.0	90.00	359.68	11,150.0	3,046.7	-93.8	3,047.8	0.00	0.00	0.00
14,300.0	90.00	359.68	11,150.0	3,146.7	-94.3	3,147.8	0.00	0.00	0.00
14,400.0	90.00	359.68	11,150.0	3,246.7	-94.9	3,247.8	0.00	0.00	0.00
14,500.0	90.00	359.68	11,150.0	3,346.7	-95.5	3,347.8	0.00	0.00	0.00
14,600.0	90.00	359.68	11,150.0	3,446.7	-96.0	3,447.8	0.00	0.00	0.00
14,700.0	90.00	359.68	11,150.0	3,546.7	-96.6	3,547.8	0.00	0.00	0.00
14,800.0	90.00	359.68	11,150.0	3,646.7	-97.1	3,647.8	0.00	0.00	0.00
14,900.0	90.00	359.68	11,150.0	3,746.7	-97.7	3,747.8	0.00	0.00	0.00
15,000.0	90.00	359.68	11,150.0	3,846.7	-98.3	3,847.8	0.00	0.00	0.00
15,100.0	90.00	359.68	11,150.0	3,946.7	-98.8	3,947.8	0.00	0.00	0.00
15,200.0	90.00	359.68	11,150.0	4,046.7	-99.4	4,047.8	0.00	0.00	0.00
15,300.0	90.00	359.68	11,150.0	4,146.7	-100.0	4,147.8	0.00	0.00	0.00
15,400.0	90.00	359.68	11,150.0	4,246.7	-100.5	4,247.8	0.00	0.00	0.00
15,500.0	90.00	359.68	11,150.0	4,346.7	-101.1	4,347.7	0.00	0.00	0.00
15,600.0	90.00	359.68	11,150.0	4,446.7	-101.6	4,447.7	0.00	0.00	0.00
15,700.0	90.00	359.68	11,150.0	4,546.7	-102.2	4,547.7	0.00	0.00	0.00
15,800.0	90.00	359.68	11,150.0	4,646.7	-102.8	4,647.7	0.00	0.00	0.00
15,900.0	90.00	359.68	11,150.0	4,746.7	-103.3	4,747.7	0.00	0.00	0.00
16,000.0	90.00	359.68	11,150.0	4,846.6	-103.9	4,847.7	0.00	0.00	0.00
16,100.0	90.00	359.68	11,150.0	4,946.6	-104.5	4,947.7	0.00	0.00	0.00
16,200.0	90.00	359.68	11,150.0	5,046.6	-105.0	5,047.7	0.00	0.00	0.00
16,300.0	90.00	359.68	11,150.0	5,146.6	-105.6	5,147.7	0.00	0.00	0.00
16,400.0	90.00	359.68	11,150.0	5,246.6	-106.1	5,247.7	0.00	0.00	0.00
16,500.0	90.00	359.68	11,150.0	5,346.6	-106.7	5,347.7	0.00	0.00	0.00
16,600.0	90.00	359.68	11,150.0	5,446.6	-107.3	5,447.7	0.00	0.00	0.00
16,700.0	90.00	359.68	11,150.0	5,546.6	-107.8	5,547.7	0.00	0.00	0.00
16,800.0	90.00	359.68	11,150.0	5,646.6	-108.4	5,647.7	0.00	0.00	0.00
16,900.0	90.00	359.68	11,150.0	5,746.6	-109.0	5,747.7	0.00	0.00	0.00
17,000.0	90.00	359.68	11,150.0	5,846.6	-109.5	5,847.7	0.00	0.00	0.00
17,100.0	90.00	359.68	11,150.0	5,946.6	-110.1	5,947.6	0.00	0.00	0.00
17,200.0	90.00	359.68	11,150.0	6,046.6	-110.6	6,047.6	0.00	0.00	0.00
17,300.0	90.00	359.68	11,150.0	6,146.6	-111.2	6,147.6	0.00	0.00	0.00
17,400.0	90.00	359.68	11,150.0	6,246.6	-111.8	6,247.6	0.00	0.00	0.00
17,500.0	90.00	359.68	11,150.0	6,346.6	-112.3	6,347.6	0.00	0.00	0.00
17,600.0	90.00	359.68	11,150.0	6,446.6	-112.9	6,447.6	0.00	0.00	0.00
17,700.0	90.00	359.68	11,150.0	6,546.6	-113.5	6,547.6	0.00	0.00	0.00
17,800.0	90.00	359.68	11,150.0	6,646.6	-114.0	6,647.6	0.00	0.00	0.00
17,836.4	90.00	359.68	11,150.0	6,683.0	-114.2	6,684.0	0.00	0.00	0.00
TD at 17836.4 - Anderson Fed Com 554H BHL									



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Anderson Fed Com 554H
Company:	Advance Energy Partners	TVD Reference:	WELL @ 3703.5usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3703.5usft (Original Well Elev)
Site:	Anderson Fed Com - Pad C	North Reference:	Grid
Well:	Anderson Fed Com 554H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 554H		
Design:	Anderson Fed Com 554H - Prelim 2		

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 554H - plan hits target center - Point	0.00	0.00	11,150.0	6,683.0	-114.2	526,636.57	753,094.78	32° 26' 45.305 N	103° 38' 48.779 W
Anderson Fed Com 554H - plan hits target center - Point	0.00	0.00	11,150.0	279.3	-60.0	520,232.85	753,149.01	32° 25' 41.936 N	103° 38' 48.626 W

Casing Points				
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
11,426.6	11,150.0	LP	5-1/2	5-1/2

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,198.0	1,198.0	Rustler		0.00	
4,776.0	4,776.0	Base of Limestone		0.00	
8,425.4	8,423.0	Lower Brushy		0.00	
8,945.9	8,943.0	Avalon		0.00	
9,813.6	9,810.0	1st BS Sand		0.00	
10,402.0	10,398.0	2nd BS Sand		0.00	
11,005.4	10,976.0	3rd BS Carb		0.00	

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
5,400.0	5,400.0	0.0	0.0	KOP - Start Build 1.00
5,635.5	5,635.4	-4.8	-0.1	Start 4633.1 hold at 5635.5 MD
10,268.6	10,264.6	-195.2	-2.9	Start Drop -1.00
10,504.0	10,500.0	-200.0	-3.0	Start 172.5 hold at 10504.0 MD
10,676.6	10,672.5	-200.0	-3.0	KOP #2 - Start Build 12.00
11,426.6	11,150.0	274.1	-59.4	LP - Start 5.2 hold at 11426.6 MD
11,431.8	11,150.0	279.3	-60.0	Start DLS 2.00 TFO 90.00
11,754.8	11,150.0	601.5	-80.0	Start 6081.6 hold at 11754.8 MD
17,836.4	11,150.0	6,683.0	-114.2	TD at 17836.4



Advance Energy Partners

Hat Mesa

Anderson Fed Com - Pad C

Anderson Fed Com 554H

Anderson Fed Com 554H

Anderson Fed Com 554H - Prelim 2

Anticollision Report

28 July, 2021



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 554H
Project:	Hat Mesa	TVD Reference:	WELL @ 3703.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3703.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 554H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 554H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 554H - Prelim 2	Offset TVD Reference:	Offset Datum

Reference	Anderson Fed Com 554H - Prelim 2		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 1,000.0usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.79 Sigma	Casing Method:	Not applied

Survey Tool Program	Date 7/28/2021				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	17,836.4	Anderson Fed Com 554H - Prelim 2 (Ande	MWD+HRGM	OWSG MWD + HRGM	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Anderson Fed Com - Pad C						
Anderson Fed Com 502H - Anderson Fed Com 502H - A	5,116.3	5,117.3	32.4	5.9	1.223	Level 3, CC
Anderson Fed Com 502H - Anderson Fed Com 502H - A	10,000.0	10,001.8	39.1	1.0	1.025	Level 3, ES, SF
Anderson Fed Com 506H - Anderson Fed Com 506H - A	5,000.0	5,000.0	65.4	39.3	2.504	CC
Anderson Fed Com 506H - Anderson Fed Com 506H - A	5,100.0	5,099.9	65.5	39.1	2.484	ES
Anderson Fed Com 506H - Anderson Fed Com 506H - A	9,500.0	9,507.0	79.3	42.8	2.174	SF
Anderson Fed Com 553H - Anderson Fed Com 553H - A	4,916.3	4,917.3	131.5	105.7	5.086	CC
Anderson Fed Com 553H - Anderson Fed Com 553H - A	5,000.0	5,000.0	131.5	105.4	5.035	ES
Anderson Fed Com 553H - Anderson Fed Com 553H - A	17,836.4	17,694.7	974.9	700.8	3.557	SF
Anderson Fed Com 602H - Anderson Fed Com 602H - A	5,400.0	5,401.0	33.6	6.3	1.229	Level 3, CC
Anderson Fed Com 602H - Anderson Fed Com 602H - A	10,600.0	10,601.0	39.0	0.8	1.022	Level 3, SF
Anderson Fed Com 602H - Anderson Fed Com 602H - A	10,676.6	10,677.5	38.1	0.8	1.023	Level 3, ES
Anderson Fed Com 702H - Anderson Fed Com 702H - A	5,400.0	5,396.0	98.4	71.1	3.597	CC, ES, SF

Offset Design:	Anderson Fed Com - Pad C - Anderson Fed Com 502H - Anderson Fed Com 502H - Anderson Fed Com 502H - Prelim 2												Offset Site Error:	0.0 usft
Survey Program:	0-MWD+HRGM												Offset Well Error:	0.0 usft
Reference	Vertical	Offset	Semi Major Axis	Highside	Offset Wellbore Centre	Distance	Rule Assigned:	Minimum	Separation	Warning				
Measured Depth (usft)	Depth (usft)	Depth (usft)	Reference	Offset	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor				
0.0	0.0	1.0	0.0	0.0	-90.37	-0.2	-32.4	32.4						
100.0	100.0	101.0	0.5	0.5	-90.37	-0.2	-32.4	32.4	31.3	1.07	30.219			
200.0	200.0	201.0	1.7	1.7	-90.37	-0.2	-32.4	32.4	29.0	3.43	9.444			
300.0	300.0	301.0	2.4	2.4	-90.37	-0.2	-32.4	32.4	27.6	4.83	6.710			
400.0	400.0	401.0	3.0	3.0	-90.37	-0.2	-32.4	32.4	26.5	5.91	5.480			
500.0	500.0	501.0	3.4	3.4	-90.37	-0.2	-32.4	32.4	25.6	6.83	4.741			
600.0	600.0	601.0	3.8	3.8	-90.37	-0.2	-32.4	32.4	24.7	7.65	4.234			
700.0	700.0	701.0	4.2	4.2	-90.37	-0.2	-32.4	32.4	24.0	8.40	3.858			
800.0	800.0	801.0	4.5	4.5	-90.37	-0.2	-32.4	32.4	23.3	9.09	3.565			
900.0	900.0	901.0	4.9	4.9	-90.37	-0.2	-32.4	32.4	22.7	9.73	3.329			
1,000.0	1,000.0	1,001.0	5.2	5.2	-90.37	-0.2	-32.4	32.4	22.1	10.34	3.132			
1,100.0	1,100.0	1,101.0	5.5	5.5	-90.37	-0.2	-32.4	32.4	21.5	10.93	2.965			
1,200.0	1,200.0	1,201.0	5.7	5.7	-90.37	-0.2	-32.4	32.4	20.9	11.48	2.822			
1,300.0	1,300.0	1,301.0	6.0	6.0	-90.37	-0.2	-32.4	32.4	20.4	12.02	2.696			
1,400.0	1,400.0	1,401.0	6.3	6.3	-90.37	-0.2	-32.4	32.4	19.9	12.53	2.585			
1,500.0	1,500.0	1,501.0	6.5	6.5	-90.37	-0.2	-32.4	32.4	19.4	13.03	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 554H
Project:	Hat Mesa	TVD Reference:	WELL @ 3703.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3703.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 554H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 554H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 554H - Prelim 2	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad C - Anderson Fed Com 502H - Anderson Fed Com 502H - Anderson Fed Com 502H - Prelim 2													Offset Site Error: 0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.0 usft
Reference	Offset	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	
1,600.0	1,600.0	1,601.0	1,601.0	6.8	6.8	-90.37	-0.2	-32.4	32.4	18.9	13.52	2.396	
1,700.0	1,700.0	1,701.0	1,701.0	7.0	7.0	-90.37	-0.2	-32.4	32.4	18.4	13.99	2.316	
1,800.0	1,800.0	1,801.0	1,801.0	7.2	7.2	-90.37	-0.2	-32.4	32.4	17.9	14.45	2.242	
1,900.0	1,900.0	1,901.0	1,901.0	7.4	7.5	-90.37	-0.2	-32.4	32.4	17.5	14.90	2.174	
2,000.0	2,000.0	2,001.0	2,001.0	7.7	7.7	-90.37	-0.2	-32.4	32.4	17.1	15.34	2.112	
2,100.0	2,100.0	2,101.0	2,101.0	7.9	7.9	-90.37	-0.2	-32.4	32.4	16.6	15.77	2.054	
2,200.0	2,200.0	2,201.0	2,201.0	8.1	8.1	-90.37	-0.2	-32.4	32.4	16.2	16.19	2.001	
2,300.0	2,300.0	2,301.0	2,301.0	8.3	8.3	-90.37	-0.2	-32.4	32.4	15.8	16.61	1.951	
2,400.0	2,400.0	2,401.0	2,401.0	8.5	8.5	-90.37	-0.2	-32.4	32.4	15.4	17.02	1.904	
2,500.0	2,500.0	2,501.0	2,501.0	8.7	8.7	-90.37	-0.2	-32.4	32.4	15.0	17.42	1.860	
2,600.0	2,600.0	2,601.0	2,601.0	8.9	8.9	-90.37	-0.2	-32.4	32.4	14.6	17.81	1.819	
2,700.0	2,700.0	2,701.0	2,701.0	9.1	9.1	-90.37	-0.2	-32.4	32.4	14.2	18.20	1.780	
2,800.0	2,800.0	2,801.0	2,801.0	9.3	9.3	-90.37	-0.2	-32.4	32.4	13.8	18.59	1.743	
2,900.0	2,900.0	2,901.0	2,901.0	9.5	9.5	-90.37	-0.2	-32.4	32.4	13.4	18.97	1.708	
3,000.0	3,000.0	3,001.0	3,001.0	9.7	9.7	-90.37	-0.2	-32.4	32.4	13.1	19.34	1.675	
3,100.0	3,100.0	3,101.0	3,101.0	9.9	9.9	-90.37	-0.2	-32.4	32.4	12.7	19.71	1.644	
3,200.0	3,200.0	3,201.0	3,201.0	10.0	10.0	-90.37	-0.2	-32.4	32.4	12.3	20.08	1.614	
3,300.0	3,300.0	3,301.0	3,301.0	10.2	10.2	-90.37	-0.2	-32.4	32.4	12.0	20.44	1.585	
3,400.0	3,400.0	3,401.0	3,401.0	10.4	10.4	-90.37	-0.2	-32.4	32.4	11.6	20.80	1.558	
3,500.0	3,500.0	3,501.0	3,501.0	10.6	10.6	-90.37	-0.2	-32.4	32.4	11.2	21.15	1.532	
3,600.0	3,600.0	3,601.0	3,601.0	10.7	10.8	-90.37	-0.2	-32.4	32.4	10.9	21.50	1.507	
3,700.0	3,700.0	3,701.0	3,701.0	10.9	10.9	-90.37	-0.2	-32.4	32.4	10.6	21.85	1.483 Level 3	
3,800.0	3,800.0	3,801.0	3,801.0	11.1	11.1	-90.37	-0.2	-32.4	32.4	10.2	22.19	1.460 Level 3	
3,900.0	3,900.0	3,901.0	3,901.0	11.3	11.3	-90.37	-0.2	-32.4	32.4	9.9	22.53	1.438 Level 3	
4,000.0	4,000.0	4,001.0	4,001.0	11.4	11.4	-90.37	-0.2	-32.4	32.4	9.5	22.87	1.416 Level 3	
4,100.0	4,100.0	4,101.0	4,101.0	11.6	11.6	-90.37	-0.2	-32.4	32.4	9.2	23.21	1.396 Level 3	
4,200.0	4,200.0	4,201.0	4,201.0	11.8	11.8	-90.37	-0.2	-32.4	32.4	8.9	23.54	1.376 Level 3	
4,300.0	4,300.0	4,301.0	4,301.0	11.9	11.9	-90.37	-0.2	-32.4	32.4	8.5	23.87	1.357 Level 3	
4,400.0	4,400.0	4,401.0	4,401.0	12.1	12.1	-90.37	-0.2	-32.4	32.4	8.2	24.20	1.339 Level 3	
4,500.0	4,500.0	4,501.0	4,501.0	12.3	12.3	-90.37	-0.2	-32.4	32.4	7.9	24.53	1.321 Level 3	
4,600.0	4,600.0	4,601.0	4,601.0	12.4	12.4	-90.37	-0.2	-32.4	32.4	7.5	24.85	1.304 Level 3	
4,700.0	4,700.0	4,701.0	4,701.0	12.6	12.6	-90.37	-0.2	-32.4	32.4	7.2	25.17	1.287 Level 3	
4,800.0	4,800.0	4,801.0	4,801.0	12.7	12.7	-90.37	-0.2	-32.4	32.4	6.9	25.49	1.271 Level 3	
4,900.0	4,900.0	4,901.0	4,901.0	12.9	12.9	-90.37	-0.2	-32.4	32.4	6.6	25.81	1.255 Level 3	
5,000.0	5,000.0	5,001.0	5,001.0	13.1	13.1	-90.37	-0.2	-32.4	32.4	6.3	26.13	1.240 Level 3	
5,100.0	5,100.0	5,101.0	5,101.0	13.2	13.2	-90.37	-0.2	-32.4	32.4	6.0	26.44	1.225 Level 3	
5,116.3	5,116.3	5,117.3	5,117.3	13.2	13.2	-90.37	-0.2	-32.4	32.4	5.9	26.49	1.223 Level 3, CC	
5,200.0	5,200.0	5,201.0	5,201.0	13.4	13.4	-90.37	-0.2	-32.4	32.4	5.6	26.75	1.211 Level 3	
5,300.0	5,300.0	5,301.0	5,301.0	13.5	13.5	-91.94	-1.1	-32.4	32.4	5.5	26.99	1.202 Level 3	
5,400.0	5,400.0	5,400.9	5,400.8	13.7	13.5	-96.54	-3.7	-32.5	32.7	5.5	27.19	1.203 Level 3	
5,500.0	5,500.0	5,500.8	5,500.6	13.8	13.6	76.84	-8.0	-32.6	33.4	6.1	27.27	1.224 Level 3	
5,600.0	5,600.0	5,600.7	5,600.5	13.8	13.6	73.58	-12.6	-32.8	34.0	6.6	27.37	1.241 Level 3	
5,635.5	5,635.4	5,636.2	5,635.9	13.8	13.7	73.13	-14.2	-32.8	34.1	6.7	27.39	1.244 Level 3	
5,700.0	5,699.9	5,700.7	5,700.4	13.9	13.8	72.63	-17.2	-32.9	34.2	6.8	27.43	1.247 Level 3	
5,800.0	5,799.8	5,800.7	5,800.3	13.9	13.9	71.87	-21.8	-33.0	34.4	6.9	27.55	1.249 Level 3	
5,900.0	5,899.7	5,900.7	5,900.2	14.0	14.0	71.12	-26.4	-33.2	34.6	7.0	27.68	1.252 Level 3	
6,000.0	5,999.6	6,000.7	6,000.1	14.2	14.2	70.38	-31.0	-33.3	34.9	7.1	27.82	1.254 Level 3	
6,100.0	6,099.5	6,100.7	6,100.0	14.3	14.3	69.64	-35.6	-33.5	35.1	7.1	27.97	1.255 Level 3	
6,200.0	6,199.5	6,200.7	6,199.8	14.4	14.5	68.92	-40.2	-33.6	35.4	7.2	28.13	1.257 Level 3	
6,300.0	6,299.4	6,300.7	6,299.7	14.6	14.7	68.21	-44.8	-33.7	35.6	7.3	28.30	1.258 Level 3	
6,400.0	6,399.3	6,400.7	6,399.6	14.8	14.9	67.50	-49.5	-33.9	35.9	7.4	28.48	1.259 Level 3	
6,500.0	6,499.2	6,500.7	6,499.5	15.0	15.2	66.81	-54.1	-34.0	36.1	7.5	28.67	1.260 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 554H
Project:	Hat Mesa	TVD Reference:	WELL @ 3703.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3703.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 554H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 554H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 554H - Prelim 2	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad C - Anderson Fed Com 502H - Anderson Fed Com 502H - Anderson Fed Com 502H - Prelim 2													Offset Site Error: 0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
6,600.0	6,599.1	6,600.7	6,599.4	15.2	15.4	66.13	-58.7	-34.2	36.4	7.5	28.87	1.260	Level 3
6,700.0	6,699.0	6,700.7	6,699.3	15.4	15.6	65.45	-63.3	-34.3	36.6	7.6	29.08	1.260	Level 3
6,800.0	6,799.0	6,800.7	6,799.2	15.6	15.9	64.79	-67.9	-34.4	36.9	7.6	29.31	1.260	Level 3
6,900.0	6,898.9	6,900.7	6,899.1	15.8	16.1	64.14	-72.5	-34.6	37.2	7.7	29.54	1.259	Level 3
7,000.0	6,998.8	7,000.7	6,999.0	16.0	16.4	63.49	-77.1	-34.7	37.5	7.7	29.79	1.258	Level 3
7,100.0	7,098.7	7,100.7	7,098.9	16.3	16.7	62.86	-81.7	-34.8	37.8	7.7	30.06	1.257	Level 3
7,200.0	7,198.6	7,200.7	7,198.8	16.5	17.0	62.24	-86.3	-35.0	38.1	7.7	30.34	1.255	Level 3
7,300.0	7,298.5	7,300.7	7,298.7	16.8	17.3	61.62	-90.9	-35.1	38.4	7.7	30.63	1.252	Level 3
7,400.0	7,398.4	7,400.7	7,398.6	17.1	17.6	61.02	-95.5	-35.3	38.7	7.7	30.94	1.250	Level 3
7,500.0	7,498.4	7,500.7	7,498.4	17.4	17.9	60.42	-100.1	-35.4	39.0	7.7	31.26	1.247	Level 3
7,600.0	7,598.3	7,600.7	7,598.3	17.6	18.2	59.83	-104.7	-35.5	39.3	7.7	31.60	1.243	Level 3
7,700.0	7,698.2	7,700.7	7,698.2	17.9	18.5	59.26	-109.4	-35.7	39.6	7.6	31.95	1.239	Level 3
7,800.0	7,798.1	7,800.7	7,798.1	18.2	18.8	58.69	-114.0	-35.8	39.9	7.6	32.31	1.235	Level 3
7,900.0	7,898.0	7,900.7	7,898.0	18.5	19.2	58.13	-118.6	-35.9	40.2	7.5	32.69	1.231	Level 3
8,000.0	7,997.9	8,000.7	7,997.9	18.8	19.5	57.58	-123.2	-36.1	40.6	7.5	33.09	1.226	Level 3
8,100.0	8,097.9	8,100.7	8,097.8	19.2	19.9	57.04	-127.8	-36.2	40.9	7.4	33.50	1.221	Level 3
8,200.0	8,197.8	8,200.7	8,197.7	19.5	20.2	56.50	-132.4	-36.4	41.2	7.3	33.92	1.215	Level 3
8,300.0	8,297.7	8,300.7	8,297.6	19.8	20.6	55.98	-137.0	-36.5	41.6	7.2	34.36	1.209	Level 3
8,400.0	8,397.6	8,400.7	8,397.5	20.1	20.9	55.46	-141.6	-36.6	41.9	7.1	34.81	1.203	Level 3
8,500.0	8,497.5	8,500.7	8,497.4	20.5	21.3	54.96	-146.2	-36.8	42.2	7.0	35.28	1.197	Level 3
8,600.0	8,597.4	8,600.7	8,597.3	20.8	21.6	54.46	-150.8	-36.9	42.6	6.8	35.76	1.191	Level 3
8,700.0	8,697.3	8,700.7	8,697.2	21.2	22.0	53.97	-155.4	-37.1	42.9	6.7	36.25	1.184	Level 3
8,800.0	8,797.3	8,800.7	8,797.1	21.5	22.4	53.48	-160.0	-37.2	43.3	6.5	36.76	1.178	Level 3
8,900.0	8,897.2	8,900.7	8,896.9	21.9	22.8	53.01	-164.6	-37.3	43.6	6.4	37.28	1.171	Level 3
9,000.0	8,997.1	9,000.7	8,996.8	22.2	23.1	52.54	-169.3	-37.5	44.0	6.2	37.81	1.164	Level 3
9,100.0	9,097.0	9,100.7	9,096.7	22.6	23.5	52.08	-173.9	-37.6	44.4	6.0	38.35	1.157	Level 3
9,200.0	9,196.9	9,200.7	9,196.6	22.9	23.9	51.63	-178.5	-37.7	44.7	5.8	38.91	1.149	Level 3
9,300.0	9,296.8	9,300.7	9,296.5	23.3	24.3	51.18	-183.1	-37.9	45.1	5.6	39.48	1.142	Level 3
9,400.0	9,396.8	9,400.7	9,396.4	23.7	24.7	50.75	-187.7	-38.0	45.5	5.4	40.06	1.135	Level 3
9,500.0	9,496.7	9,500.7	9,496.3	24.1	25.1	50.31	-192.3	-38.2	45.8	5.2	40.65	1.128	Level 3
9,600.0	9,596.6	9,601.0	9,596.5	24.4	25.4	50.19	-196.6	-38.3	46.0	4.9	41.12	1.119	Level 3
9,700.0	9,696.5	9,701.5	9,697.0	24.8	25.8	51.63	-199.3	-38.4	45.1	4.0	41.15	1.097	Level 3
9,800.0	9,796.4	9,801.9	9,797.4	25.2	26.0	54.97	-200.2	-38.4	43.2	2.7	40.49	1.068	Level 3
9,900.0	9,896.3	9,901.9	9,897.3	25.6	26.0	59.67	-200.2	-38.4	41.0	1.6	39.36	1.042	Level 3
10,000.0	9,996.2	10,001.8	9,997.2	26.0	26.1	64.88	-200.2	-38.4	39.1	1.0	38.13	1.025	Level 3, ES, SF
10,097.6	10,093.7	10,099.8	10,094.6	26.3	25.8	85.80	-190.3	-39.1	36.4	2.0	34.39	1.057	Level 3
10,100.0	10,096.2	10,102.2	10,096.9	26.3	25.8	86.70	-189.8	-39.2	36.4	2.0	34.34	1.059	Level 3
10,200.0	10,196.1	10,193.0	10,183.4	26.7	25.5	126.40	-162.7	-41.1	50.3	7.8	42.53	1.183	Level 3
10,268.6	10,264.6	10,247.4	10,232.2	27.0	25.3	143.14	-138.7	-42.9	76.8	28.7	48.13	1.595	
10,300.0	10,296.0	10,270.1	10,251.7	27.1	25.2	148.02	-127.1	-43.7	92.2	42.7	49.53	1.862	
10,400.0	10,396.0	10,334.0	10,303.4	27.5	24.9	157.14	-89.7	-46.5	150.4	98.4	51.97	2.893	
10,504.0	10,500.0	10,388.5	10,343.2	27.6	24.7	-17.39	-52.5	-49.2	220.9	167.6	53.29	4.145	
10,600.0	10,596.0	10,429.7	10,370.3	27.7	24.6	-15.19	-21.6	-51.4	292.5	238.3	54.20	5.397	
10,676.6	10,672.5	10,457.3	10,386.9	27.7	24.5	-14.02	0.4	-53.0	353.3	298.4	54.86	6.440	
10,700.0	10,695.9	10,465.2	10,391.4	27.7	24.5	-6.51	6.8	-53.5	372.1	317.0	55.04	6.760	
10,725.0	10,720.9	10,475.0	10,396.8	27.6	24.5	-5.82	14.9	-54.1	391.6	336.4	55.20	7.095	
10,750.0	10,745.7	10,482.6	10,401.0	27.5	24.5	-5.29	21.3	-54.6	410.6	355.2	55.40	7.413	
10,775.0	10,770.3	10,491.5	10,405.7	27.4	24.4	-4.82	28.9	-55.1	429.1	373.5	55.58	7.721	
10,800.0	10,794.6	10,500.0	10,410.0	27.4	24.4	-4.41	36.1	-55.6	447.0	391.2	55.77	8.015	
10,825.0	10,818.6	10,509.8	10,414.9	27.3	24.4	-4.05	44.6	-56.3	464.3	408.4	55.95	8.299	
10,850.0	10,842.2	10,525.0	10,422.0	27.2	24.4	-3.66	58.0	-57.2	481.1	425.1	56.04	8.585	
10,875.0	10,865.3	10,525.0	10,422.0	27.1	24.4	-3.50	58.0	-57.2	497.2	440.8	56.39	8.817	

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 554H
Project:	Hat Mesa	TVD Reference:	WELL @ 3703.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3703.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 554H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 554H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 554H - Prelim 2	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad C - Anderson Fed Com 502H - Anderson Fed Com 502H - Anderson Fed Com 502H - Prelim 2													Offset Site Error:	0.0 usft	
Survey Program:		0-MWD+HRGM		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
10,900.0	10,887.9	10,538.1	10,427.8	26.9	24.3	-3.21	69.6	-58.1	512.6	456.1	56.53	9.069			
10,925.0	10,909.9	10,550.0	10,432.9	26.8	24.3	-2.98	80.4	-58.9	527.5	470.8	56.69	9.304			
10,950.0	10,931.3	10,557.4	10,435.9	26.7	24.3	-2.80	87.2	-59.4	541.7	484.7	56.94	9.514			
10,975.0	10,951.9	10,567.1	10,439.6	26.6	24.3	-2.63	96.1	-60.0	555.2	498.0	57.15	9.715			
11,000.0	10,971.8	10,575.0	10,442.5	26.5	24.3	-2.49	103.4	-60.5	568.1	510.7	57.39	9.898			
11,025.0	10,990.8	10,586.9	10,446.7	26.4	24.2	-2.33	114.5	-61.4	580.2	522.6	57.58	10.077			
11,050.0	11,009.0	10,600.0	10,451.0	26.4	24.2	-2.18	126.9	-62.3	591.7	534.0	57.76	10.244			
11,075.0	11,026.3	10,600.0	10,451.0	26.3	24.2	-2.13	126.9	-62.3	602.6	544.4	58.12	10.367			
11,100.0	11,042.6	10,616.9	10,456.0	26.2	24.2	-1.98	143.0	-63.4	612.6	554.3	58.27	10.513			
11,125.0	11,057.9	10,625.0	10,458.2	26.1	24.2	-1.89	150.8	-64.0	621.9	563.4	58.53	10.626			
11,150.0	11,072.1	10,637.1	10,461.2	26.0	24.2	-1.79	162.5	-64.9	630.5	571.8	58.74	10.734			
11,175.0	11,085.2	10,650.0	10,464.1	26.0	24.2	-1.70	175.0	-65.8	638.5	579.5	58.95	10.830			
11,200.0	11,097.2	10,657.5	10,465.7	25.9	24.2	-1.63	182.3	-66.3	645.6	586.4	59.23	10.900			
11,225.0	11,108.1	10,667.8	10,467.6	25.8	24.1	-1.56	192.4	-67.0	652.0	592.5	59.48	10.962			
11,250.0	11,117.7	10,675.0	10,468.8	25.8	24.1	-1.51	199.5	-67.6	657.7	597.9	59.76	11.005			
11,275.0	11,126.1	10,688.3	10,470.7	25.8	24.1	-1.44	212.6	-68.5	662.6	602.6	59.98	11.046			
11,300.0	11,133.3	10,700.0	10,472.2	25.7	24.1	-1.37	224.2	-69.4	666.8	606.5	60.23	11.071			
11,325.0	11,139.2	10,708.9	10,473.1	25.7	24.1	-1.33	233.0	-70.0	670.2	609.7	60.50	11.078			
11,350.0	11,143.9	10,725.0	10,474.2	25.7	24.1	-1.25	249.0	-71.2	672.9	612.2	60.70	11.085			
11,375.0	11,147.2	10,725.0	10,474.2	25.7	24.1	-1.25	249.0	-71.2	674.7	613.7	61.05	11.051			
11,400.0	11,149.3	10,739.9	10,474.8	25.7	24.1	-1.19	263.8	-72.3	675.8	614.5	61.28	11.029			
11,426.6	11,150.0	10,752.1	10,475.0	25.7	24.1	-1.14	276.0	-73.1	676.1	614.6	61.55	10.986			
11,431.8	11,150.0	10,754.4	10,475.0	25.7	24.1	-1.13	278.3	-73.3	676.1	614.5	61.59	10.977			
11,500.0	11,150.0	10,822.8	10,475.0	25.7	24.1	-0.87	346.6	-77.5	676.1	614.2	61.89	10.924			
11,600.0	11,150.0	10,923.0	10,475.0	25.7	24.2	-0.49	446.7	-80.7	676.0	613.6	62.38	10.837			
11,700.0	11,150.0	11,023.0	10,475.0	25.8	24.2	-0.18	546.7	-81.3	676.0	613.1	62.95	10.738			
11,754.8	11,150.0	11,077.7	10,475.0	25.9	24.3	-0.14	601.5	-81.6	676.0	612.7	63.29	10.681			
11,800.0	11,150.0	11,123.0	10,475.0	25.9	24.3	-0.14	646.7	-81.9	676.0	612.4	63.59	10.631			
11,900.0	11,150.0	11,223.0	10,475.0	26.2	24.7	-0.14	746.7	-82.4	676.0	611.7	64.30	10.513			
12,000.0	11,150.0	11,323.0	10,475.0	26.8	25.7	-0.13	846.7	-83.0	676.0	610.9	65.09	10.386			
12,100.0	11,150.0	11,423.0	10,475.0	28.0	27.1	-0.13	946.7	-83.5	676.0	610.1	65.93	10.253			
12,200.0	11,150.0	11,523.0	10,475.0	29.4	28.6	-0.13	1,046.7	-84.0	676.0	609.2	66.84	10.114			
12,300.0	11,150.0	11,623.0	10,475.0	31.0	30.3	-0.13	1,146.7	-84.6	676.0	608.2	67.81	9.969			
12,400.0	11,150.0	11,723.0	10,475.0	32.6	31.9	-0.12	1,246.7	-85.1	676.0	607.2	68.83	9.821			
12,500.0	11,150.0	11,823.0	10,475.0	34.3	33.7	-0.12	1,346.7	-85.6	676.0	606.1	69.91	9.670			
12,600.0	11,150.0	11,923.0	10,475.0	36.0	35.4	-0.12	1,446.7	-86.2	676.0	605.0	71.03	9.516			
12,700.0	11,150.0	12,023.0	10,475.0	37.8	37.2	-0.12	1,546.7	-86.7	676.0	603.8	72.21	9.361			
12,800.0	11,150.0	12,123.0	10,475.0	39.5	39.0	-0.11	1,646.7	-87.2	676.0	602.6	73.43	9.206			
12,900.0	11,150.0	12,223.0	10,475.0	41.3	40.8	-0.11	1,746.7	-87.8	676.0	601.3	74.70	9.049			
13,000.0	11,150.0	12,323.0	10,475.0	43.2	42.6	-0.11	1,846.7	-88.3	676.0	600.0	76.01	8.894			
13,100.0	11,150.0	12,423.0	10,475.0	45.0	44.5	-0.11	1,946.7	-88.8	676.0	598.6	77.36	8.738			
13,200.0	11,150.0	12,523.0	10,475.0	46.8	46.3	-0.11	2,046.7	-89.4	676.0	597.3	78.75	8.585			
13,300.0	11,150.0	12,623.0	10,475.0	48.7	48.2	-0.10	2,146.7	-89.9	676.0	595.8	80.17	8.432			
13,400.0	11,150.0	12,723.0	10,475.0	50.6	50.1	-0.10	2,246.7	-90.5	676.0	594.4	81.62	8.282			
13,500.0	11,150.0	12,823.0	10,475.0	52.5	52.0	-0.10	2,346.7	-91.0	676.0	592.9	83.11	8.134			
13,600.0	11,150.0	12,923.0	10,475.0	54.4	53.9	-0.10	2,446.7	-91.5	676.0	591.4	84.63	7.988			
13,700.0	11,150.0	13,023.0	10,475.0	56.3	55.8	-0.09	2,546.7	-92.1	676.0	589.8	86.18	7.844			
13,800.0	11,150.0	13,123.0	10,475.0	58.2	57.8	-0.09	2,646.7	-92.6	676.0	588.2	87.75	7.703			
13,900.0	11,150.0	13,223.0	10,475.0	60.1	59.7	-0.09	2,746.7	-93.1	676.0	586.6	89.35	7.565			
14,000.0	11,150.0	13,323.0	10,475.0	62.0	61.6	-0.09	2,846.7	-93.7	676.0	585.0	90.98	7.430			
14,100.0	11,150.0	13,423.0	10,475.0	64.0	63.5	-0.09	2,946.7	-94.2	676.0	583.4	92.63	7.298			
14,200.0	11,150.0	13,523.0	10,475.0	65.9	65.5	-0.08	3,046.7	-94.7	676.0	581.7	94.30	7.169			

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 554H
Project:	Hat Mesa	TVD Reference:	WELL @ 3703.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3703.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 554H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 554H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 554H - Prelim 2	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad C - Anderson Fed Com 502H - Anderson Fed Com 502H - Anderson Fed Com 502H - Prelim 2													Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM				Offset		Rule Assigned:				Offset Well Error:		0.0 usft		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
14,300.0	11,150.0	13,623.0	10,475.0	67.8	67.4	-0.08	3,146.7	-95.3	676.0	580.0	95.99	7.042		
14,400.0	11,150.0	13,723.0	10,475.0	69.8	69.4	-0.08	3,246.7	-95.8	676.0	578.3	97.70	6.919		
14,500.0	11,150.0	13,823.0	10,475.0	71.7	71.3	-0.08	3,346.7	-96.3	676.0	576.6	99.43	6.799		
14,600.0	11,150.0	13,923.0	10,475.0	73.7	73.3	-0.07	3,446.7	-96.9	676.0	574.8	101.18	6.681		
14,700.0	11,150.0	14,023.0	10,475.0	75.6	75.3	-0.07	3,546.7	-97.4	676.0	573.1	102.94	6.567		
14,800.0	11,150.0	14,123.0	10,475.0	77.6	77.2	-0.07	3,646.7	-98.0	676.0	571.3	104.72	6.455		
14,900.0	11,150.0	14,223.0	10,475.0	79.6	79.2	-0.07	3,746.7	-98.5	676.0	569.5	106.52	6.346		
15,000.0	11,150.0	14,323.0	10,475.0	81.5	81.2	-0.06	3,846.7	-99.0	676.0	567.7	108.33	6.240		
15,100.0	11,150.0	14,423.0	10,475.0	83.5	83.1	-0.06	3,946.7	-99.6	676.0	565.8	110.15	6.137		
15,200.0	11,150.0	14,523.0	10,475.0	85.4	85.1	-0.06	4,046.7	-100.1	676.0	564.0	111.99	6.036		
15,300.0	11,150.0	14,623.0	10,475.0	87.4	87.1	-0.06	4,146.7	-100.6	676.0	562.2	113.84	5.938		
15,400.0	11,150.0	14,723.0	10,475.0	89.4	89.1	-0.06	4,246.7	-101.2	676.0	560.3	115.70	5.843		
15,500.0	11,150.0	14,823.0	10,475.0	91.4	91.0	-0.05	4,346.7	-101.7	676.0	558.4	117.57	5.750		
15,600.0	11,150.0	14,923.0	10,475.0	93.3	93.0	-0.05	4,446.7	-102.2	676.0	556.5	119.46	5.659		
15,700.0	11,150.0	15,023.0	10,475.0	95.3	95.0	-0.05	4,546.7	-102.8	676.0	554.6	121.35	5.571		
15,800.0	11,150.0	15,123.0	10,475.0	97.3	97.0	-0.05	4,646.6	-103.3	676.0	552.7	123.25	5.485		
15,900.0	11,150.0	15,223.0	10,475.0	99.3	99.0	-0.04	4,746.6	-103.9	676.0	550.8	125.17	5.401		
16,000.0	11,150.0	15,323.0	10,475.0	101.3	101.0	-0.04	4,846.6	-104.4	676.0	548.9	127.09	5.319		
16,100.0	11,150.0	15,423.0	10,475.0	103.2	102.9	-0.04	4,946.6	-104.9	676.0	547.0	129.02	5.240		
16,200.0	11,150.0	15,523.0	10,475.0	105.2	104.9	-0.04	5,046.6	-105.5	676.0	545.0	130.96	5.162		
16,300.0	11,150.0	15,623.0	10,475.0	107.2	106.9	-0.04	5,146.6	-106.0	676.0	543.1	132.90	5.086		
16,400.0	11,150.0	15,723.0	10,475.0	109.2	108.9	-0.03	5,246.6	-106.5	676.0	541.1	134.86	5.013		
16,500.0	11,150.0	15,823.0	10,475.0	111.2	110.9	-0.03	5,346.6	-107.1	676.0	539.2	136.82	4.941		
16,600.0	11,150.0	15,923.0	10,475.0	113.2	112.9	-0.03	5,446.6	-107.6	676.0	537.2	138.79	4.871		
16,700.0	11,150.0	16,023.0	10,475.0	115.2	114.9	-0.03	5,546.6	-108.1	676.0	535.2	140.76	4.803		
16,800.0	11,150.0	16,123.0	10,475.0	117.2	116.9	-0.02	5,646.6	-108.7	676.0	533.3	142.74	4.736		
16,900.0	11,150.0	16,223.0	10,475.0	119.2	118.9	-0.02	5,746.6	-109.2	676.0	531.3	144.73	4.671		
17,000.0	11,150.0	16,323.0	10,475.0	121.1	120.9	-0.02	5,846.6	-109.7	676.0	529.3	146.72	4.607		
17,100.0	11,150.0	16,423.0	10,475.0	123.1	122.9	-0.02	5,946.6	-110.3	676.0	527.3	148.72	4.546		
17,200.0	11,150.0	16,523.0	10,475.0	125.1	124.9	-0.01	6,046.6	-110.8	676.0	525.3	150.72	4.485		
17,300.0	11,150.0	16,623.0	10,475.0	127.1	126.8	-0.01	6,146.6	-111.4	676.0	523.3	152.73	4.426		
17,400.0	11,150.0	16,723.0	10,475.0	129.1	128.8	-0.01	6,246.6	-111.9	676.0	521.3	154.74	4.369		
17,500.0	11,150.0	16,823.0	10,475.0	131.1	130.8	-0.01	6,346.6	-112.4	676.0	519.2	156.76	4.312		
17,600.0	11,150.0	16,923.0	10,475.0	133.1	132.8	-0.01	6,446.6	-113.0	676.0	517.2	158.78	4.257		
17,700.0	11,150.0	17,023.0	10,475.0	135.1	134.8	0.00	6,546.6	-113.5	676.0	515.2	160.81	4.204		
17,800.0	11,150.0	17,123.0	10,475.0	137.1	136.8	0.00	6,646.6	-114.0	676.0	513.2	162.84	4.151		
17,836.4	11,150.0	17,159.3	10,475.0	137.8	137.6	0.00	6,683.0	-114.2	676.0	512.4	163.58	4.133		

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 554H
Project:	Hat Mesa	TVD Reference:	WELL @ 3703.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3703.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 554H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 554H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 554H - Prelim 2	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad C - Anderson Fed Com 506H - Anderson Fed Com 506H - Anderson Fed Com 506H - Prelim 2												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	0.0	0.0	0.0	0.0	-90.69	-0.8	-65.4	65.4				
100.0	100.0	100.0	100.0	0.5	0.5	-90.69	-0.8	-65.4	65.4	64.4	1.06	61.694	
200.0	200.0	200.0	200.0	1.7	1.7	-90.69	-0.8	-65.4	65.4	62.0	3.42	19.107	
300.0	300.0	300.0	300.0	2.4	2.4	-90.69	-0.8	-65.4	65.4	60.6	4.82	13.563	
400.0	400.0	400.0	400.0	3.0	3.0	-90.69	-0.8	-65.4	65.4	59.5	5.91	11.072	
500.0	500.0	500.0	500.0	3.4	3.4	-90.69	-0.8	-65.4	65.4	58.6	6.83	9.577	
600.0	600.0	600.0	600.0	3.8	3.8	-90.69	-0.8	-65.4	65.4	57.8	7.65	8.552	
700.0	700.0	700.0	700.0	4.2	4.2	-90.69	-0.8	-65.4	65.4	57.0	8.39	7.793	
800.0	800.0	800.0	800.0	4.5	4.5	-90.69	-0.8	-65.4	65.4	56.3	9.08	7.201	
900.0	900.0	900.0	900.0	4.9	4.9	-90.69	-0.8	-65.4	65.4	55.7	9.73	6.723	
1,000.0	1,000.0	1,000.0	1,000.0	5.2	5.2	-90.69	-0.8	-65.4	65.4	55.1	10.34	6.326	
1,100.0	1,100.0	1,100.0	1,100.0	5.5	5.5	-90.69	-0.8	-65.4	65.4	54.5	10.92	5.989	
1,200.0	1,200.0	1,200.0	1,200.0	5.7	5.7	-90.69	-0.8	-65.4	65.4	53.9	11.48	5.698	
1,300.0	1,300.0	1,300.0	1,300.0	6.0	6.0	-90.69	-0.8	-65.4	65.4	53.4	12.01	5.444	
1,400.0	1,400.0	1,400.0	1,400.0	6.3	6.3	-90.69	-0.8	-65.4	65.4	52.9	12.53	5.220	
1,500.0	1,500.0	1,500.0	1,500.0	6.5	6.5	-90.69	-0.8	-65.4	65.4	52.4	13.03	5.020	
1,600.0	1,600.0	1,600.0	1,600.0	6.8	6.8	-90.69	-0.8	-65.4	65.4	51.9	13.52	4.839	
1,700.0	1,700.0	1,700.0	1,700.0	7.0	7.0	-90.69	-0.8	-65.4	65.4	51.4	13.99	4.676	
1,800.0	1,800.0	1,800.0	1,800.0	7.2	7.2	-90.69	-0.8	-65.4	65.4	51.0	14.45	4.527	
1,900.0	1,900.0	1,900.0	1,900.0	7.4	7.4	-90.69	-0.8	-65.4	65.4	50.5	14.90	4.390	
2,000.0	2,000.0	2,000.0	2,000.0	7.7	7.7	-90.69	-0.8	-65.4	65.4	50.1	15.34	4.265	
2,100.0	2,100.0	2,100.0	2,100.0	7.9	7.9	-90.69	-0.8	-65.4	65.4	49.6	15.77	4.148	
2,200.0	2,200.0	2,200.0	2,200.0	8.1	8.1	-90.69	-0.8	-65.4	65.4	49.2	16.19	4.040	
2,300.0	2,300.0	2,300.0	2,300.0	8.3	8.3	-90.69	-0.8	-65.4	65.4	48.8	16.61	3.939	
2,400.0	2,400.0	2,400.0	2,400.0	8.5	8.5	-90.69	-0.8	-65.4	65.4	48.4	17.02	3.844	
2,500.0	2,500.0	2,500.0	2,500.0	8.7	8.7	-90.69	-0.8	-65.4	65.4	48.0	17.42	3.756	
2,600.0	2,600.0	2,600.0	2,600.0	8.9	8.9	-90.69	-0.8	-65.4	65.4	47.6	17.81	3.672	
2,700.0	2,700.0	2,700.0	2,700.0	9.1	9.1	-90.69	-0.8	-65.4	65.4	47.2	18.20	3.594	
2,800.0	2,800.0	2,800.0	2,800.0	9.3	9.3	-90.69	-0.8	-65.4	65.4	46.8	18.59	3.520	
2,900.0	2,900.0	2,900.0	2,900.0	9.5	9.5	-90.69	-0.8	-65.4	65.4	46.5	18.96	3.449	
3,000.0	3,000.0	3,000.0	3,000.0	9.7	9.7	-90.69	-0.8	-65.4	65.4	46.1	19.34	3.383	
3,100.0	3,100.0	3,100.0	3,100.0	9.9	9.9	-90.69	-0.8	-65.4	65.4	45.7	19.71	3.319	
3,200.0	3,200.0	3,200.0	3,200.0	10.0	10.0	-90.69	-0.8	-65.4	65.4	45.3	20.07	3.259	
3,300.0	3,300.0	3,300.0	3,300.0	10.2	10.2	-90.69	-0.8	-65.4	65.4	45.0	20.44	3.201	
3,400.0	3,400.0	3,400.0	3,400.0	10.4	10.4	-90.69	-0.8	-65.4	65.4	44.6	20.79	3.146	
3,500.0	3,500.0	3,500.0	3,500.0	10.6	10.6	-90.69	-0.8	-65.4	65.4	44.3	21.15	3.093	
3,600.0	3,600.0	3,600.0	3,600.0	10.7	10.7	-90.69	-0.8	-65.4	65.4	43.9	21.50	3.043	
3,700.0	3,700.0	3,700.0	3,700.0	10.9	10.9	-90.69	-0.8	-65.4	65.4	43.6	21.85	2.994	
3,800.0	3,800.0	3,800.0	3,800.0	11.1	11.1	-90.69	-0.8	-65.4	65.4	43.2	22.19	2.948	
3,900.0	3,900.0	3,900.0	3,900.0	11.3	11.3	-90.69	-0.8	-65.4	65.4	42.9	22.53	2.903	
4,000.0	4,000.0	4,000.0	4,000.0	11.4	11.4	-90.69	-0.8	-65.4	65.4	42.5	22.87	2.860	
4,100.0	4,100.0	4,100.0	4,100.0	11.6	11.6	-90.69	-0.8	-65.4	65.4	42.2	23.21	2.819	
4,200.0	4,200.0	4,200.0	4,200.0	11.8	11.8	-90.69	-0.8	-65.4	65.4	41.9	23.54	2.779	
4,300.0	4,300.0	4,300.0	4,300.0	11.9	11.9	-90.69	-0.8	-65.4	65.4	41.5	23.87	2.740	
4,400.0	4,400.0	4,400.0	4,400.0	12.1	12.1	-90.69	-0.8	-65.4	65.4	41.2	24.20	2.703	
4,500.0	4,500.0	4,500.0	4,500.0	12.3	12.3	-90.69	-0.8	-65.4	65.4	40.9	24.53	2.667	
4,600.0	4,600.0	4,600.0	4,600.0	12.4	12.4	-90.69	-0.8	-65.4	65.4	40.6	24.85	2.632	
4,700.0	4,700.0	4,700.0	4,700.0	12.6	12.6	-90.69	-0.8	-65.4	65.4	40.2	25.17	2.599	
4,800.0	4,800.0	4,800.0	4,800.0	12.7	12.7	-90.69	-0.8	-65.4	65.4	39.9	25.49	2.566	
4,900.0	4,900.0	4,900.0	4,900.0	12.9	12.9	-90.69	-0.8	-65.4	65.4	39.6	25.81	2.535	
4,966.7	4,966.7	4,966.7	4,966.7	13.0	13.0	-90.69	-0.8	-65.4	65.4	39.4	26.02	2.514	
5,000.0	5,000.0	5,000.0	5,000.0	13.1	13.1	-90.69	-0.8	-65.4	65.4	39.3	26.12	2.504 CC	

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 554H
Project:	Hat Mesa	TVD Reference:	WELL @ 3703.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3703.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 554H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 554H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 554H - Prelim 2	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad C - Anderson Fed Com 506H - Anderson Fed Com 506H - Anderson Fed Com 506H - Prelim 2													Offset Site Error: 0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.0 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,100.0	5,100.0	5,099.9	5,099.9	13.2	13.1	-91.45	-1.7	-65.5	65.5	39.1	26.36	2.484 ES	
5,200.0	5,200.0	5,199.8	5,199.7	13.4	13.2	-93.72	-4.3	-65.6	65.7	39.1	26.58	2.473	
5,300.0	5,300.0	5,299.5	5,299.4	13.5	13.3	-97.43	-8.6	-65.8	66.4	39.6	26.76	2.480	
5,400.0	5,400.0	5,399.4	5,399.2	13.7	13.4	-101.60	-13.6	-66.0	67.4	40.5	26.96	2.501	
5,500.0	5,500.0	5,499.3	5,499.0	13.8	13.5	74.21	-18.5	-66.3	68.6	41.5	27.11	2.531	
5,600.0	5,600.0	5,599.3	5,598.8	13.8	13.6	72.37	-23.5	-66.5	69.4	42.2	27.23	2.550	
5,635.5	5,635.4	5,634.8	5,634.2	13.8	13.7	72.05	-25.3	-66.6	69.6	42.4	27.25	2.555	
5,700.0	5,699.9	5,699.3	5,698.7	13.9	13.8	71.64	-28.5	-66.8	69.9	42.6	27.31	2.561	
5,800.0	5,799.8	5,799.3	5,798.5	13.9	13.9	71.02	-33.5	-67.0	70.4	42.9	27.43	2.565	
5,900.0	5,899.7	5,899.3	5,898.4	14.0	14.1	70.39	-38.4	-67.3	70.8	43.2	27.58	2.568	
6,000.0	5,999.6	5,999.3	5,998.3	14.2	14.3	69.78	-43.4	-67.5	71.3	43.5	27.74	2.570	
6,100.0	6,099.5	6,099.3	6,098.2	14.3	14.5	69.18	-48.4	-67.8	71.7	43.8	27.90	2.571	
6,200.0	6,199.5	6,199.3	6,198.0	14.4	14.7	68.58	-53.4	-68.0	72.2	44.1	28.07	2.573	
6,300.0	6,299.4	6,299.3	6,297.9	14.6	14.9	67.99	-58.3	-68.3	72.7	44.4	28.26	2.573	
6,400.0	6,399.3	6,399.3	6,397.8	14.8	15.2	67.41	-63.3	-68.5	73.2	44.7	28.45	2.573	
6,500.0	6,499.2	6,499.3	6,497.6	15.0	15.4	66.83	-68.3	-68.8	73.7	45.0	28.66	2.572	
6,600.0	6,599.1	6,599.3	6,597.5	15.2	15.7	66.27	-73.3	-69.0	74.2	45.3	28.87	2.570	
6,700.0	6,699.0	6,699.3	6,697.4	15.4	16.0	65.71	-78.2	-69.3	74.7	45.6	29.10	2.568	
6,800.0	6,799.0	6,799.3	6,797.3	15.6	16.3	65.16	-83.2	-69.5	75.2	45.9	29.34	2.564	
6,900.0	6,898.9	6,899.3	6,897.1	15.8	16.5	64.62	-88.2	-69.8	75.8	46.2	29.59	2.560	
7,000.0	6,998.8	6,999.2	6,997.0	16.0	16.8	64.08	-93.2	-70.0	76.3	46.4	29.86	2.555	
7,100.0	7,098.7	7,099.2	7,096.9	16.3	17.2	63.55	-98.1	-70.3	76.8	46.7	30.13	2.550	
7,200.0	7,198.6	7,199.2	7,196.7	16.5	17.5	63.03	-103.1	-70.5	77.4	47.0	30.42	2.544	
7,300.0	7,298.5	7,299.2	7,296.6	16.8	17.8	62.52	-108.1	-70.8	77.9	47.2	30.73	2.537	
7,400.0	7,398.4	7,399.2	7,396.5	17.1	18.1	62.02	-113.1	-71.0	78.5	47.5	31.04	2.529	
7,500.0	7,498.4	7,499.2	7,496.4	17.4	18.4	61.52	-118.0	-71.3	79.1	47.7	31.37	2.520	
7,600.0	7,598.3	7,599.2	7,596.2	17.6	18.8	61.03	-123.0	-71.5	79.6	47.9	31.72	2.511	
7,700.0	7,698.2	7,699.2	7,696.1	17.9	19.1	60.54	-128.0	-71.8	80.2	48.1	32.07	2.501	
7,800.0	7,798.1	7,799.2	7,796.0	18.2	19.5	60.06	-133.0	-72.0	80.8	48.4	32.44	2.491	
7,900.0	7,898.0	7,899.2	7,895.8	18.5	19.8	59.59	-137.9	-72.3	81.4	48.6	32.82	2.480	
8,000.0	7,997.9	7,999.2	7,995.7	18.8	20.2	59.13	-142.9	-72.5	82.0	48.8	33.22	2.468	
8,100.0	8,097.9	8,099.2	8,095.6	19.2	20.6	58.67	-147.9	-72.8	82.6	49.0	33.63	2.456	
8,200.0	8,197.8	8,199.2	8,195.5	19.5	20.9	58.22	-152.9	-73.0	83.2	49.1	34.05	2.443	
8,300.0	8,297.7	8,299.2	8,295.3	19.8	21.3	57.78	-157.8	-73.3	83.8	49.3	34.48	2.430	
8,400.0	8,397.6	8,399.2	8,395.2	20.1	21.7	57.34	-162.8	-73.5	84.4	49.5	34.93	2.416	
8,500.0	8,497.5	8,499.2	8,495.1	20.5	22.1	56.91	-167.8	-73.8	85.0	49.6	35.39	2.403	
8,600.0	8,597.4	8,599.2	8,595.0	20.8	22.5	56.48	-172.8	-74.0	85.7	49.8	35.86	2.388	
8,700.0	8,697.3	8,699.2	8,694.8	21.2	22.8	56.07	-177.7	-74.3	86.3	49.9	36.35	2.374	
8,800.0	8,797.3	8,799.2	8,794.7	21.5	23.2	55.65	-182.7	-74.5	86.9	50.1	36.84	2.359	
8,900.0	8,897.2	8,899.2	8,894.6	21.9	23.6	55.25	-187.7	-74.8	87.6	50.2	37.35	2.344	
9,000.0	8,997.1	8,999.2	8,994.4	22.2	24.0	54.85	-192.7	-75.0	88.2	50.3	37.87	2.329	
9,100.0	9,097.0	9,099.9	9,095.1	22.6	24.4	54.74	-197.1	-75.2	88.5	50.2	38.29	2.311	
9,200.0	9,196.9	9,200.8	9,196.0	22.9	24.7	55.54	-199.8	-75.4	87.8	49.3	38.49	2.280	
9,300.0	9,296.8	9,301.7	9,296.8	23.3	24.9	57.31	-200.8	-75.4	86.0	47.7	38.35	2.244	
9,400.0	9,396.8	9,401.6	9,396.8	23.7	25.0	59.67	-200.8	-75.4	83.9	45.9	37.99	2.208	
9,500.0	9,496.7	9,507.0	9,501.7	24.1	24.8	66.57	-194.2	-75.4	79.3	42.8	36.47	2.174 SF	
9,600.0	9,596.6	9,605.5	9,596.5	24.4	24.5	88.93	-168.0	-75.6	73.1	39.8	33.29	2.195	
9,600.0	9,596.6	9,605.5	9,596.5	24.4	24.5	88.94	-168.0	-75.6	73.1	39.8	33.29	2.195	
9,700.0	9,696.5	9,689.0	9,671.3	24.8	24.1	117.70	-130.9	-75.8	87.6	49.3	38.28	2.289	
9,800.0	9,796.4	9,756.9	9,726.5	25.2	23.9	137.09	-91.6	-76.0	131.9	87.2	44.66	2.953	
9,900.0	9,896.3	9,811.0	9,766.1	25.6	23.7	147.56	-54.8	-76.2	195.0	147.4	47.63	4.094	
10,000.0	9,996.2	9,850.0	9,792.1	26.0	23.6	152.95	-25.7	-76.4	268.7	219.5	49.26	5.456	

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 554H
Project:	Hat Mesa	TVD Reference:	WELL @ 3703.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3703.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 554H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 554H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 554H - Prelim 2	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad C - Anderson Fed Com 506H - Anderson Fed Com 506H - Anderson Fed Com 506H - Prelim 2													Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,100.0	10,096.2	9,888.8	9,815.4	26.3	23.5	157.02	5.3	-76.6	348.9	298.6	50.27	6.941		
10,200.0	10,196.1	9,917.0	9,830.7	26.7	23.4	159.38	29.0	-76.7	433.5	382.4	51.13	8.479		
10,268.6	10,264.6	9,933.4	9,839.0	27.0	23.4	160.57	43.1	-76.8	493.3	441.7	51.65	9.552		
10,300.0	10,296.0	9,940.2	9,842.3	27.1	23.3	161.22	49.1	-76.8	521.1	469.3	51.87	10.047		
10,400.0	10,396.0	9,960.2	9,851.4	27.5	23.3	163.00	66.9	-76.9	610.5	557.9	52.56	11.615		
10,504.0	10,500.0	9,975.0	9,857.7	27.6	23.3	-14.79	80.3	-77.0	704.7	651.4	53.24	13.237		
10,600.0	10,596.0	10,000.0	9,867.4	27.7	23.2	-13.73	103.3	-77.1	792.6	738.9	53.75	14.748		
10,676.6	10,672.5	10,000.0	9,867.4	27.7	23.2	-13.73	103.3	-77.1	863.5	809.3	54.26	15.916		
10,700.0	10,695.9	10,000.0	9,867.4	27.7	23.2	-6.17	103.3	-77.1	885.2	830.8	54.40	16.271		
10,725.0	10,720.9	10,010.1	9,871.0	27.6	23.2	-5.23	112.7	-77.2	907.8	853.3	54.51	16.655		
10,750.0	10,745.7	10,014.0	9,872.3	27.5	23.2	-4.64	116.4	-77.2	929.9	875.3	54.64	17.019		
10,775.0	10,770.3	10,025.0	9,875.9	27.4	23.2	-4.02	126.8	-77.3	951.6	896.9	54.74	17.384		
10,800.0	10,794.6	10,025.0	9,875.9	27.4	23.2	-3.71	126.8	-77.3	972.6	917.7	54.91	17.715		
10,825.0	10,818.6	10,025.0	9,875.9	27.3	23.2	-3.44	126.8	-77.3	993.1	938.0	55.07	18.034		

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 554H
Project:	Hat Mesa	TVD Reference:	WELL @ 3703.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3703.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 554H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 554H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 554H - Prelim 2	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad C - Anderson Fed Com 553H - Anderson Fed Com 553H - Anderson Fed Com 553H - Prelim 2												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	1.0	1.0	0.0	0.0	-90.47	-1.1	-131.5	131.5				
100.0	100.0	101.0	101.0	0.5	0.5	-90.47	-1.1	-131.5	131.5	130.5	1.07	122.684	
200.0	200.0	201.0	201.0	1.7	1.7	-90.47	-1.1	-131.5	131.5	128.1	3.43	38.341	
300.0	300.0	301.0	301.0	2.4	2.4	-90.47	-1.1	-131.5	131.5	126.7	4.83	27.241	
400.0	400.0	401.0	401.0	3.0	3.0	-90.47	-1.1	-131.5	131.5	125.6	5.91	22.246	
500.0	500.0	501.0	501.0	3.4	3.4	-90.47	-1.1	-131.5	131.5	124.7	6.83	19.246	
600.0	600.0	601.0	601.0	3.8	3.8	-90.47	-1.1	-131.5	131.5	123.9	7.65	17.188	
700.0	700.0	701.0	701.0	4.2	4.2	-90.47	-1.1	-131.5	131.5	123.1	8.40	15.664	
800.0	800.0	801.0	801.0	4.5	4.5	-90.47	-1.1	-131.5	131.5	122.4	9.09	14.475	
900.0	900.0	901.0	901.0	4.9	4.9	-90.47	-1.1	-131.5	131.5	121.8	9.73	13.514	
1,000.0	1,000.0	1,001.0	1,001.0	5.2	5.2	-90.47	-1.1	-131.5	131.5	121.2	10.34	12.716	
1,100.0	1,100.0	1,101.0	1,101.0	5.5	5.5	-90.47	-1.1	-131.5	131.5	120.6	10.93	12.039	
1,200.0	1,200.0	1,201.0	1,201.0	5.7	5.7	-90.47	-1.1	-131.5	131.5	120.0	11.48	11.455	
1,300.0	1,300.0	1,301.0	1,301.0	6.0	6.0	-90.47	-1.1	-131.5	131.5	119.5	12.02	10.945	
1,400.0	1,400.0	1,401.0	1,401.0	6.3	6.3	-90.47	-1.1	-131.5	131.5	119.0	12.53	10.494	
1,500.0	1,500.0	1,501.0	1,501.0	6.5	6.5	-90.47	-1.1	-131.5	131.5	118.5	13.03	10.091	
1,600.0	1,600.0	1,601.0	1,601.0	6.8	6.8	-90.47	-1.1	-131.5	131.5	118.0	13.52	9.729	
1,700.0	1,700.0	1,701.0	1,701.0	7.0	7.0	-90.47	-1.1	-131.5	131.5	117.5	13.99	9.401	
1,800.0	1,800.0	1,801.0	1,801.0	7.2	7.2	-90.47	-1.1	-131.5	131.5	117.1	14.45	9.101	
1,900.0	1,900.0	1,901.0	1,901.0	7.4	7.5	-90.47	-1.1	-131.5	131.5	116.6	14.90	8.827	
2,000.0	2,000.0	2,001.0	2,001.0	7.7	7.7	-90.47	-1.1	-131.5	131.5	116.2	15.34	8.574	
2,100.0	2,100.0	2,101.0	2,101.0	7.9	7.9	-90.47	-1.1	-131.5	131.5	115.8	15.77	8.339	
2,200.0	2,200.0	2,201.0	2,201.0	8.1	8.1	-90.47	-1.1	-131.5	131.5	115.3	16.19	8.122	
2,300.0	2,300.0	2,301.0	2,301.0	8.3	8.3	-90.47	-1.1	-131.5	131.5	114.9	16.61	7.919	
2,400.0	2,400.0	2,401.0	2,401.0	8.5	8.5	-90.47	-1.1	-131.5	131.5	114.5	17.02	7.729	
2,500.0	2,500.0	2,501.0	2,501.0	8.7	8.7	-90.47	-1.1	-131.5	131.5	114.1	17.42	7.551	
2,600.0	2,600.0	2,601.0	2,601.0	8.9	8.9	-90.47	-1.1	-131.5	131.5	113.7	17.81	7.384	
2,700.0	2,700.0	2,701.0	2,701.0	9.1	9.1	-90.47	-1.1	-131.5	131.5	113.3	18.20	7.226	
2,800.0	2,800.0	2,801.0	2,801.0	9.3	9.3	-90.47	-1.1	-131.5	131.5	112.9	18.59	7.076	
2,900.0	2,900.0	2,901.0	2,901.0	9.5	9.5	-90.47	-1.1	-131.5	131.5	112.6	18.97	6.935	
3,000.0	3,000.0	3,001.0	3,001.0	9.7	9.7	-90.47	-1.1	-131.5	131.5	112.2	19.34	6.801	
3,100.0	3,100.0	3,101.0	3,101.0	9.9	9.9	-90.47	-1.1	-131.5	131.5	111.8	19.71	6.673	
3,200.0	3,200.0	3,201.0	3,201.0	10.0	10.0	-90.47	-1.1	-131.5	131.5	111.5	20.08	6.552	
3,300.0	3,300.0	3,301.0	3,301.0	10.2	10.2	-90.47	-1.1	-131.5	131.5	111.1	20.44	6.436	
3,400.0	3,400.0	3,401.0	3,401.0	10.4	10.4	-90.47	-1.1	-131.5	131.5	110.7	20.80	6.325	
3,500.0	3,500.0	3,501.0	3,501.0	10.6	10.6	-90.47	-1.1	-131.5	131.5	110.4	21.15	6.219	
3,600.0	3,600.0	3,601.0	3,601.0	10.7	10.8	-90.47	-1.1	-131.5	131.5	110.0	21.50	6.118	
3,700.0	3,700.0	3,701.0	3,701.0	10.9	10.9	-90.47	-1.1	-131.5	131.5	109.7	21.85	6.020	
3,800.0	3,800.0	3,801.0	3,801.0	11.1	11.1	-90.47	-1.1	-131.5	131.5	109.3	22.19	5.927	
3,900.0	3,900.0	3,901.0	3,901.0	11.3	11.3	-90.47	-1.1	-131.5	131.5	109.0	22.53	5.837	
4,000.0	4,000.0	4,001.0	4,001.0	11.4	11.4	-90.47	-1.1	-131.5	131.5	108.7	22.87	5.751	
4,100.0	4,100.0	4,101.0	4,101.0	11.6	11.6	-90.47	-1.1	-131.5	131.5	108.3	23.21	5.667	
4,200.0	4,200.0	4,201.0	4,201.0	11.8	11.8	-90.47	-1.1	-131.5	131.5	108.0	23.54	5.587	
4,300.0	4,300.0	4,301.0	4,301.0	11.9	11.9	-90.47	-1.1	-131.5	131.5	107.7	23.87	5.510	
4,400.0	4,400.0	4,401.0	4,401.0	12.1	12.1	-90.47	-1.1	-131.5	131.5	107.3	24.20	5.435	
4,500.0	4,500.0	4,501.0	4,501.0	12.3	12.3	-90.47	-1.1	-131.5	131.5	107.0	24.53	5.363	
4,600.0	4,600.0	4,601.0	4,601.0	12.4	12.4	-90.47	-1.1	-131.5	131.5	106.7	24.85	5.293	
4,700.0	4,700.0	4,701.0	4,701.0	12.6	12.6	-90.47	-1.1	-131.5	131.5	106.4	25.17	5.225	
4,800.0	4,800.0	4,801.0	4,801.0	12.7	12.7	-90.47	-1.1	-131.5	131.5	106.0	25.49	5.160	
4,900.0	4,900.0	4,901.0	4,901.0	12.9	12.9	-90.47	-1.1	-131.5	131.5	105.7	25.81	5.096	
4,916.3	4,916.3	4,917.3	4,917.3	12.9	12.9	-90.47	-1.1	-131.5	131.5	105.7	25.86	5.086 CC	
5,000.0	5,000.0	5,000.0	5,000.0	13.1	13.1	-90.47	-1.1	-131.5	131.5	105.4	26.12	5.035 ES	

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



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 554H
Project:	Hat Mesa	TVD Reference:	WELL @ 3703.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3703.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 554H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 554H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 554H - Prelim 2	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad C - Anderson Fed Com 553H - Anderson Fed Com 553H - Anderson Fed Com 553H - Prelim 2												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
				(usft)	(usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,100.0	5,100.0	5,098.9	5,098.9	13.2	13.2	-90.60	-1.4	-132.3	132.3	106.0	26.39	5.016	
5,200.0	5,200.0	5,196.7	5,196.7	13.4	13.3	-90.99	-2.3	-134.7	134.7	108.1	26.63	5.059	
5,300.0	5,300.0	5,294.4	5,294.3	13.5	13.4	-91.61	-3.9	-138.5	138.8	111.9	26.89	5.160	
5,400.0	5,400.0	5,392.0	5,391.7	13.7	13.5	-92.42	-6.1	-144.0	144.4	117.2	27.16	5.315	
5,500.0	5,500.0	5,489.4	5,488.8	13.8	13.7	-86.02	-8.9	-150.9	151.6	124.2	27.37	5.537	
5,600.0	5,600.0	5,588.8	5,587.8	13.8	13.8	85.86	-12.1	-158.9	159.6	132.1	27.59	5.786	
5,635.5	5,635.4	5,624.1	5,623.0	13.8	13.9	85.96	-13.3	-161.8	162.5	134.8	27.65	5.876	
5,700.0	5,699.9	5,688.4	5,687.1	13.9	14.0	86.24	-15.4	-167.0	167.6	139.8	27.77	6.036	
5,800.0	5,799.8	5,788.1	5,786.4	13.9	14.2	86.64	-18.6	-175.0	175.6	147.6	28.01	6.268	
5,900.0	5,899.7	5,887.8	5,885.7	14.0	14.5	87.01	-21.9	-183.1	183.6	155.3	28.28	6.491	
6,000.0	5,999.6	5,987.5	5,985.0	14.2	14.7	87.35	-25.2	-191.1	191.6	163.0	28.57	6.706	
6,100.0	6,099.5	6,087.1	6,084.3	14.3	15.0	87.66	-28.4	-199.2	199.5	170.7	28.86	6.913	
6,200.0	6,199.5	6,186.8	6,183.6	14.4	15.2	87.94	-31.7	-207.2	207.5	178.4	29.18	7.113	
6,300.0	6,299.4	6,286.5	6,282.9	14.6	15.5	88.21	-34.9	-215.3	215.5	186.0	29.50	7.306	
6,400.0	6,399.3	6,386.2	6,382.2	14.8	15.8	88.45	-38.2	-223.4	223.6	193.7	29.84	7.492	
6,500.0	6,499.2	6,485.8	6,481.4	15.0	16.1	88.68	-41.4	-231.4	231.6	201.4	30.19	7.670	
6,600.0	6,599.1	6,585.5	6,580.7	15.2	16.5	88.90	-44.7	-239.5	239.6	209.0	30.55	7.842	
6,700.0	6,699.0	6,685.2	6,680.0	15.4	16.8	89.10	-47.9	-247.5	247.6	216.7	30.92	8.007	
6,800.0	6,799.0	6,784.9	6,779.3	15.6	17.2	89.29	-51.2	-255.6	255.6	224.3	31.31	8.165	
6,900.0	6,898.9	6,884.5	6,878.6	15.8	17.5	89.46	-54.4	-263.6	263.6	231.9	31.70	8.317	
7,000.0	6,998.8	6,984.2	6,977.9	16.0	17.9	89.63	-57.7	-271.7	271.7	239.6	32.10	8.463	
7,100.0	7,098.7	7,083.9	7,077.2	16.3	18.2	89.78	-61.0	-279.7	279.7	247.2	32.51	8.603	
7,200.0	7,198.6	7,183.6	7,176.5	16.5	18.6	89.93	-64.2	-287.8	287.7	254.8	32.93	8.738	
7,300.0	7,298.5	7,283.2	7,275.8	16.8	19.0	90.07	-67.5	-295.8	295.8	262.4	33.35	8.867	
7,400.0	7,398.4	7,382.9	7,375.1	17.1	19.4	90.20	-70.7	-303.9	303.8	270.0	33.79	8.991	
7,500.0	7,498.4	7,482.6	7,474.4	17.4	19.8	90.33	-74.0	-312.0	311.8	277.6	34.23	9.110	
7,600.0	7,598.3	7,582.3	7,573.7	17.6	20.2	90.45	-77.2	-320.0	319.9	285.2	34.68	9.224	
7,700.0	7,698.2	7,681.9	7,673.0	17.9	20.6	90.56	-80.5	-328.1	327.9	292.8	35.13	9.334	
7,800.0	7,798.1	7,781.6	7,772.3	18.2	21.1	90.67	-83.7	-336.1	335.9	300.3	35.59	9.439	
7,900.0	7,898.0	7,881.3	7,871.6	18.5	21.5	90.77	-87.0	-344.2	344.0	307.9	36.05	9.541	
8,000.0	7,997.9	7,980.9	7,970.9	18.8	21.9	90.87	-90.2	-352.2	352.0	315.5	36.52	9.638	
8,100.0	8,097.9	8,080.6	8,070.2	19.2	22.4	90.96	-93.5	-360.3	360.1	323.1	37.00	9.731	
8,200.0	8,197.8	8,180.3	8,169.5	19.5	22.8	91.05	-96.7	-368.3	368.1	330.6	37.48	9.821	
8,300.0	8,297.7	8,280.0	8,268.8	19.8	23.3	91.14	-100.0	-376.4	376.1	338.2	37.97	9.907	
8,400.0	8,397.6	8,379.6	8,368.1	20.1	23.7	91.22	-103.3	-384.4	384.2	345.7	38.46	9.990	
8,500.0	8,497.5	8,479.3	8,467.3	20.5	24.2	91.30	-106.5	-392.5	392.2	353.3	38.95	10.070	
8,600.0	8,597.4	8,579.0	8,566.6	20.8	24.6	91.37	-109.8	-400.6	400.3	360.8	39.45	10.146	
8,700.0	8,697.3	8,678.7	8,665.9	21.2	25.1	91.45	-113.0	-408.6	408.3	368.4	39.95	10.220	
8,800.0	8,797.3	8,778.3	8,765.2	21.5	25.5	91.51	-116.3	-416.7	416.4	375.9	40.46	10.291	
8,900.0	8,897.2	8,878.0	8,864.5	21.9	26.0	91.58	-119.5	-424.7	424.4	383.4	40.97	10.359	
9,000.0	8,997.1	8,977.7	8,963.8	22.2	26.5	91.65	-122.8	-432.8	432.5	391.0	41.48	10.425	
9,100.0	9,097.0	9,077.4	9,063.1	22.6	26.9	91.71	-126.0	-440.8	440.5	398.5	42.00	10.488	
9,200.0	9,196.9	9,177.0	9,162.4	22.9	27.4	91.77	-129.3	-448.9	448.6	406.0	42.52	10.549	
9,300.0	9,296.8	9,276.7	9,261.7	23.3	27.9	91.83	-132.5	-456.9	456.6	413.6	43.05	10.608	
9,400.0	9,396.8	9,376.4	9,361.0	23.7	28.4	91.88	-135.8	-465.0	464.7	421.1	43.57	10.664	
9,500.0	9,496.7	9,476.1	9,460.3	24.1	28.9	91.94	-139.1	-473.0	472.7	428.6	44.10	10.719	
9,600.0	9,596.6	9,575.7	9,559.6	24.4	29.3	91.99	-142.3	-481.1	480.8	436.1	44.63	10.771	
9,700.0	9,696.5	9,675.4	9,658.9	24.8	29.8	92.04	-145.6	-489.2	488.8	443.6	45.17	10.822	
9,800.0	9,796.4	9,775.1	9,758.2	25.2	30.3	92.09	-148.8	-497.2	496.9	451.2	45.71	10.871	
9,900.0	9,896.3	9,874.8	9,857.5	25.6	30.8	92.14	-152.1	-505.3	504.9	458.7	46.24	10.918	
10,000.0	9,996.2	9,974.4	9,956.8	26.0	31.3	92.18	-155.3	-513.3	513.0	466.2	46.79	10.964	
10,100.0	10,096.2	10,074.1	10,056.1	26.3	31.8	92.23	-158.6	-521.4	521.0	473.7	47.33	11.008	

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 554H
Project:	Hat Mesa	TVD Reference:	WELL @ 3703.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3703.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 554H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 554H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 554H - Prelim 2	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad C - Anderson Fed Com 553H - Anderson Fed Com 553H - Anderson Fed Com 553H - Prelim 2											Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM											Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Highside		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)	
10,200.0	10,196.1	10,159.3	10,140.9	26.7	32.2	92.25	-161.4	-528.5	529.5	481.6	47.87	11.060
10,268.6	10,264.6	10,192.5	10,173.7	27.0	32.4	92.19	-163.1	-533.1	539.1	490.7	48.34	11.152
10,300.0	10,296.0	10,207.4	10,188.4	27.1	32.5	92.18	-164.1	-536.0	544.9	496.3	48.58	11.216
10,400.0	10,396.0	10,250.0	10,229.5	27.5	32.8	92.12	-167.7	-546.4	569.5	519.9	49.56	11.490
10,504.0	10,500.0	10,300.0	10,276.3	27.6	33.1	-87.28	-173.4	-563.0	604.0	553.3	50.71	11.910
10,600.0	10,596.0	10,337.3	10,309.9	27.7	33.4	-87.86	-178.5	-578.4	643.4	591.5	51.88	12.401
10,676.6	10,672.5	10,365.9	10,334.7	27.7	33.6	-88.34	-183.0	-591.9	679.6	626.8	52.81	12.868
10,700.0	10,695.9	10,375.0	10,342.4	27.7	33.7	-80.13	-184.5	-596.4	691.4	638.3	53.09	13.022
10,725.0	10,720.9	10,382.9	10,349.0	27.6	33.7	-78.58	-185.8	-600.5	704.2	650.8	53.41	13.185
10,750.0	10,745.7	10,391.2	10,355.9	27.5	33.8	-77.05	-187.3	-604.9	717.1	663.4	53.72	13.349
10,775.0	10,770.3	10,400.0	10,363.1	27.4	33.9	-75.57	-188.8	-609.7	730.2	676.2	54.04	13.512
10,800.0	10,794.6	10,400.0	10,363.1	27.4	33.9	-73.75	-188.8	-609.7	743.6	689.2	54.39	13.670
10,825.0	10,818.6	10,414.0	10,374.4	27.3	34.0	-72.55	-191.4	-617.6	756.9	702.2	54.70	13.835
10,850.0	10,842.2	10,425.0	10,383.0	27.2	34.0	-71.26	-193.5	-624.0	770.3	715.3	55.03	14.000
10,875.0	10,865.3	10,425.0	10,383.0	27.1	34.0	-69.45	-193.5	-624.0	783.8	728.5	55.37	14.156
10,900.0	10,887.9	10,433.6	10,389.8	26.9	34.1	-68.11	-195.2	-629.2	797.4	741.7	55.69	14.317
10,925.0	10,909.9	10,443.8	10,397.5	26.8	34.2	-66.91	-197.3	-635.4	811.0	755.0	56.01	14.480
10,950.0	10,931.3	10,447.1	10,400.0	26.7	34.2	-65.34	-197.9	-637.5	824.6	768.2	56.34	14.637
10,975.0	10,951.9	10,464.2	10,413.0	26.6	34.3	-64.64	-201.0	-648.2	838.0	781.4	56.62	14.801
11,000.0	10,971.8	10,482.0	10,426.6	26.5	34.4	-64.02	-203.5	-659.3	851.2	794.3	56.90	14.961
11,025.0	10,990.8	10,500.6	10,441.0	26.4	34.5	-63.48	-205.5	-671.1	864.2	807.0	57.16	15.117
11,050.0	11,009.0	10,520.3	10,456.1	26.4	34.6	-63.03	-206.7	-683.5	876.8	819.4	57.42	15.270
11,075.0	11,026.3	10,541.1	10,472.2	26.3	34.7	-62.69	-207.2	-696.7	889.2	831.5	57.66	15.420
11,100.0	11,042.6	10,563.4	10,489.4	26.2	34.9	-62.45	-206.7	-710.9	901.2	843.3	57.90	15.565
11,125.0	11,057.9	10,587.4	10,507.9	26.1	35.0	-62.34	-205.0	-726.1	912.8	854.7	58.12	15.706
11,150.0	11,072.1	10,613.7	10,528.0	26.0	35.2	-62.36	-201.7	-742.7	924.1	865.8	58.33	15.843
11,175.0	11,085.2	10,642.7	10,550.0	26.0	35.3	-62.54	-196.5	-760.8	934.9	876.4	58.52	15.977
11,200.0	11,097.2	10,674.9	10,574.2	25.9	35.5	-62.88	-188.6	-780.7	945.2	886.5	58.68	16.106
11,225.0	11,108.1	10,711.4	10,600.9	25.8	35.7	-63.42	-177.2	-802.7	954.9	896.0	58.83	16.232
11,250.0	11,117.7	10,753.2	10,630.6	25.8	35.9	-64.16	-161.0	-827.2	963.9	905.0	58.94	16.355
11,275.0	11,126.1	10,801.4	10,663.3	25.8	36.1	-65.12	-138.1	-854.2	972.1	913.1	59.00	16.476
11,300.0	11,133.3	10,844.2	10,690.7	25.7	36.3	-65.81	-114.3	-876.9	979.4	920.3	59.10	16.573
11,325.0	11,139.2	10,923.8	10,736.8	25.7	36.6	-67.61	-62.1	-915.1	985.5	926.6	58.95	16.718
11,350.0	11,143.9	11,000.6	10,774.4	25.7	36.9	-69.00	-2.9	-946.3	990.2	931.4	58.81	16.836
11,375.0	11,147.2	11,088.2	10,807.6	25.7	37.4	-70.27	73.2	-974.1	993.1	934.5	58.61	16.944
11,400.0	11,149.3	11,168.0	10,828.0	25.7	37.8	-71.07	148.2	-991.2	993.9	935.4	58.49	16.992
11,426.6	11,150.0	11,290.3	10,840.0	25.7	38.5	-71.63	269.2	-1,001.8	992.4	934.2	58.18	17.057
11,431.8	11,150.0	11,295.1	10,840.0	25.7	38.5	-71.62	273.9	-1,001.8	991.8	933.6	58.25	17.027
11,500.0	11,150.0	11,363.0	10,840.0	25.7	38.9	-71.53	341.8	-1,002.2	985.3	926.1	59.24	16.633
11,600.0	11,150.0	11,462.7	10,840.0	25.7	39.6	-71.44	441.6	-1,002.8	978.6	917.6	61.00	16.042
11,700.0	11,150.0	11,562.6	10,840.0	25.8	40.3	-71.40	541.5	-1,003.3	975.1	912.1	63.01	15.476
11,754.6	11,150.0	11,617.3	10,840.0	25.9	40.7	-71.39	596.1	-1,003.6	974.6	910.5	64.09	15.206
11,754.8	11,150.0	11,617.4	10,840.0	25.9	40.7	-71.39	596.2	-1,003.6	974.6	910.5	64.09	15.206
11,800.0	11,150.0	11,662.6	10,840.0	25.9	41.1	-71.39	641.5	-1,003.9	974.6	909.6	65.01	14.991
11,900.0	11,150.0	11,762.6	10,840.0	26.2	42.0	-71.39	741.5	-1,004.5	974.6	907.4	67.16	14.513
12,000.0	11,150.0	11,862.6	10,840.0	26.8	42.9	-71.39	841.5	-1,005.0	974.6	905.1	69.46	14.031
12,100.0	11,150.0	11,962.6	10,840.0	28.0	43.9	-71.39	941.5	-1,005.6	974.6	902.7	71.90	13.555
12,200.0	11,150.0	12,062.6	10,840.0	29.4	44.9	-71.39	1,041.5	-1,006.2	974.6	900.1	74.47	13.088
12,300.0	11,150.0	12,162.6	10,840.0	31.0	46.0	-71.39	1,141.5	-1,006.7	974.6	897.5	77.14	12.634
12,400.0	11,150.0	12,262.6	10,840.0	32.6	47.1	-71.39	1,241.5	-1,007.3	974.6	894.7	79.91	12.196
12,500.0	11,150.0	12,362.6	10,840.0	34.3	48.3	-71.39	1,341.5	-1,007.9	974.6	891.9	82.77	11.775
12,600.0	11,150.0	12,462.6	10,840.0	36.0	49.6	-71.39	1,441.5	-1,008.4	974.6	888.9	85.71	11.372

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 554H
Project:	Hat Mesa	TVD Reference:	WELL @ 3703.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3703.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 554H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 554H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 554H - Prelim 2	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad C - Anderson Fed Com 553H - Anderson Fed Com 553H - Anderson Fed Com 553H - Prelim 2													Offset Site Error: 0.0 usft	
Survey Program: 0-MWD+HRGM				Rule Assigned:									Offset Well Error: 0.0 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
12,700.0	11,150.0	12,562.6	10,840.0	37.8	50.8	-71.39	1,541.5	-1,009.0	974.6	885.9	88.72	10.986		
12,800.0	11,150.0	12,662.6	10,840.0	39.5	52.2	-71.39	1,641.5	-1,009.6	974.6	882.9	91.79	10.619		
12,900.0	11,150.0	12,762.6	10,840.0	41.3	53.5	-71.39	1,741.5	-1,010.1	974.6	879.7	94.92	10.269		
13,000.0	11,150.0	12,862.6	10,840.0	43.2	54.9	-71.39	1,841.5	-1,010.7	974.7	876.6	98.10	9.936		
13,100.0	11,150.0	12,962.6	10,840.0	45.0	56.4	-71.39	1,941.5	-1,011.3	974.7	873.3	101.32	9.619		
13,200.0	11,150.0	13,062.6	10,840.0	46.8	57.8	-71.39	2,041.5	-1,011.8	974.7	870.1	104.60	9.318		
13,300.0	11,150.0	13,162.6	10,840.0	48.7	59.3	-71.39	2,141.4	-1,012.4	974.7	866.8	107.91	9.033		
13,400.0	11,150.0	13,262.6	10,840.0	50.6	60.8	-71.39	2,241.4	-1,013.0	974.7	863.4	111.25	8.761		
13,500.0	11,150.0	13,362.6	10,840.0	52.5	62.4	-71.39	2,341.4	-1,013.5	974.7	860.0	114.63	8.503		
13,600.0	11,150.0	13,462.6	10,840.0	54.4	64.0	-71.39	2,441.4	-1,014.1	974.7	856.6	118.04	8.257		
13,700.0	11,150.0	13,562.6	10,840.0	56.3	65.6	-71.39	2,541.4	-1,014.7	974.7	853.2	121.47	8.024		
13,800.0	11,150.0	13,662.6	10,840.0	58.2	67.2	-71.39	2,641.4	-1,015.2	974.7	849.8	124.93	7.802		
13,900.0	11,150.0	13,762.6	10,840.0	60.1	68.8	-71.39	2,741.4	-1,015.8	974.7	846.3	128.42	7.590		
14,000.0	11,150.0	13,862.6	10,840.0	62.0	70.5	-71.39	2,841.4	-1,016.4	974.7	842.8	131.92	7.388		
14,100.0	11,150.0	13,962.6	10,840.0	64.0	72.2	-71.39	2,941.4	-1,016.9	974.7	839.3	135.45	7.196		
14,200.0	11,150.0	14,062.6	10,840.0	65.9	73.9	-71.39	3,041.4	-1,017.5	974.7	835.7	138.99	7.013		
14,300.0	11,150.0	14,162.6	10,840.0	67.8	75.6	-71.39	3,141.4	-1,018.1	974.7	832.2	142.55	6.838		
14,400.0	11,150.0	14,262.6	10,840.0	69.8	77.3	-71.39	3,241.4	-1,018.6	974.7	828.6	146.13	6.670		
14,500.0	11,150.0	14,362.6	10,840.0	71.7	79.0	-71.39	3,341.4	-1,019.2	974.7	825.0	149.72	6.510		
14,600.0	11,150.0	14,462.6	10,840.0	73.7	80.8	-71.39	3,441.4	-1,019.8	974.7	821.4	153.33	6.357		
14,700.0	11,150.0	14,562.6	10,840.0	75.6	82.6	-71.39	3,541.4	-1,020.3	974.7	817.8	156.94	6.211		
14,800.0	11,150.0	14,662.6	10,840.0	77.6	84.3	-71.39	3,641.4	-1,020.9	974.7	814.2	160.57	6.070		
14,900.0	11,150.0	14,762.6	10,840.0	79.6	86.1	-71.39	3,741.4	-1,021.5	974.7	810.5	164.22	5.936		
15,000.0	11,150.0	14,862.6	10,840.0	81.5	87.9	-71.39	3,841.4	-1,022.0	974.7	806.9	167.87	5.807		
15,100.0	11,150.0	14,962.6	10,840.0	83.5	89.7	-71.39	3,941.4	-1,022.6	974.7	803.2	171.53	5.683		
15,200.0	11,150.0	15,062.6	10,840.0	85.4	91.5	-71.39	4,041.4	-1,023.2	974.8	799.6	175.20	5.564		
15,300.0	11,150.0	15,162.6	10,840.0	87.4	93.4	-71.39	4,141.4	-1,023.8	974.8	795.9	178.88	5.449		
15,400.0	11,150.0	15,262.6	10,840.0	89.4	95.2	-71.39	4,241.4	-1,024.3	974.8	792.2	182.57	5.339		
15,500.0	11,150.0	15,362.6	10,840.0	91.4	97.0	-71.39	4,341.4	-1,024.9	974.8	788.5	186.26	5.233		
15,600.0	11,150.0	15,462.6	10,840.0	93.3	98.9	-71.39	4,441.4	-1,025.5	974.8	784.8	189.97	5.131		
15,700.0	11,150.0	15,562.6	10,840.0	95.3	100.7	-71.39	4,541.4	-1,026.0	974.8	781.1	193.68	5.033		
15,800.0	11,150.0	15,662.6	10,840.0	97.3	102.6	-71.39	4,641.4	-1,026.6	974.8	777.4	197.39	4.938		
15,900.0	11,150.0	15,762.6	10,840.0	99.3	104.4	-71.39	4,741.4	-1,027.2	974.8	773.7	201.11	4.847		
16,000.0	11,150.0	15,862.6	10,840.0	101.3	106.3	-71.39	4,841.4	-1,027.7	974.8	769.9	204.84	4.759		
16,100.0	11,150.0	15,962.6	10,840.0	103.2	108.2	-71.40	4,941.4	-1,028.3	974.8	766.2	208.58	4.674		
16,200.0	11,150.0	16,062.6	10,840.0	105.2	110.1	-71.40	5,041.4	-1,028.9	974.8	762.5	212.31	4.591		
16,300.0	11,150.0	16,162.6	10,840.0	107.2	112.0	-71.40	5,141.4	-1,029.4	974.8	758.7	216.06	4.512		
16,400.0	11,150.0	16,262.6	10,840.0	109.2	113.8	-71.40	5,241.4	-1,030.0	974.8	755.0	219.81	4.435		
16,500.0	11,150.0	16,362.6	10,840.0	111.2	115.7	-71.40	5,341.4	-1,030.6	974.8	751.3	223.56	4.360		
16,600.0	11,150.0	16,462.6	10,840.0	113.2	117.6	-71.40	5,441.4	-1,031.1	974.8	747.5	227.32	4.288		
16,700.0	11,150.0	16,562.6	10,840.0	115.2	119.5	-71.40	5,541.4	-1,031.7	974.8	743.7	231.08	4.219		
16,800.0	11,150.0	16,662.6	10,840.0	117.2	121.4	-71.40	5,641.4	-1,032.3	974.8	740.0	234.84	4.151		
16,900.0	11,150.0	16,762.6	10,840.0	119.2	123.4	-71.40	5,741.4	-1,032.8	974.8	736.2	238.61	4.085		
17,000.0	11,150.0	16,862.6	10,840.0	121.1	125.3	-71.40	5,841.4	-1,033.4	974.8	732.5	242.38	4.022		
17,100.0	11,150.0	16,962.6	10,840.0	123.1	127.2	-71.40	5,941.4	-1,034.0	974.8	728.7	246.16	3.960		
17,200.0	11,150.0	17,062.6	10,840.0	125.1	129.1	-71.40	6,041.4	-1,034.5	974.8	724.9	249.94	3.900		
17,300.0	11,150.0	17,162.6	10,840.0	127.1	131.0	-71.40	6,141.4	-1,035.1	974.8	721.1	253.72	3.842		
17,400.0	11,150.0	17,262.6	10,840.0	129.1	132.9	-71.40	6,241.4	-1,035.7	974.9	717.3	257.51	3.786		
17,500.0	11,150.0	17,362.6	10,840.0	131.1	134.9	-71.40	6,341.4	-1,036.2	974.9	713.6	261.29	3.731		
17,600.0	11,150.0	17,462.6	10,840.0	133.1	136.8	-71.40	6,441.4	-1,036.8	974.9	709.8	265.08	3.678		
17,700.0	11,150.0	17,562.6	10,840.0	135.1	138.7	-71.40	6,541.4	-1,037.4	974.9	706.0	268.88	3.626		
17,800.0	11,150.0	17,662.6	10,840.0	137.1	140.7	-71.40	6,641.4	-1,037.9	974.9	702.2	272.67	3.575		

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 554H
Project:	Hat Mesa	TVD Reference:	WELL @ 3703.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3703.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 554H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 554H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 554H - Prelim 2	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad C - Anderson Fed Com 553H - Anderson Fed Com 553H - Anderson Fed Com 553H - Prelim 2													Offset Site Error: 0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		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	
17,802.2	11,150.0	17,664.8	10,840.0	137.2	140.7	-71.40	6,643.6	-1,038.0	974.9	702.1	272.76	3.574	
17,836.4	11,150.0	17,694.7	10,840.0	137.8	141.3	-71.40	6,673.4	-1,038.1	974.9	700.8	274.07	3.557 SF	



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 554H
Project:	Hat Mesa	TVD Reference:	WELL @ 3703.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3703.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 554H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 554H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 554H - Prelim 2	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad C - Anderson Fed Com 602H - Anderson Fed Com 602H - Anderson Fed Com 602H - Prelim 2												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
				(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	1.0	1.0	0.0	0.0	89.63	0.2	33.6	33.6				
100.0	100.0	101.0	101.0	0.5	0.5	89.63	0.2	33.6	33.6	32.6	1.07	31.370	
200.0	200.0	201.0	201.0	1.7	1.7	89.63	0.2	33.6	33.6	30.2	3.43	9.804	
300.0	300.0	301.0	301.0	2.4	2.4	89.63	0.2	33.6	33.6	28.8	4.83	6.966	
400.0	400.0	401.0	401.0	3.0	3.0	89.63	0.2	33.6	33.6	27.7	5.91	5.688	
500.0	500.0	501.0	501.0	3.4	3.4	89.63	0.2	33.6	33.6	26.8	6.83	4.921	
600.0	600.0	601.0	601.0	3.8	3.8	89.63	0.2	33.6	33.6	26.0	7.65	4.395	
700.0	700.0	701.0	701.0	4.2	4.2	89.63	0.2	33.6	33.6	25.2	8.40	4.005	
800.0	800.0	801.0	801.0	4.5	4.5	89.63	0.2	33.6	33.6	24.5	9.09	3.701	
900.0	900.0	901.0	901.0	4.9	4.9	89.63	0.2	33.6	33.6	23.9	9.73	3.455	
1,000.0	1,000.0	1,001.0	1,001.0	5.2	5.2	89.63	0.2	33.6	33.6	23.3	10.34	3.251	
1,100.0	1,100.0	1,101.0	1,101.0	5.5	5.5	89.63	0.2	33.6	33.6	22.7	10.93	3.078	
1,200.0	1,200.0	1,201.0	1,201.0	5.7	5.7	89.63	0.2	33.6	33.6	22.2	11.48	2.929	
1,300.0	1,300.0	1,301.0	1,301.0	6.0	6.0	89.63	0.2	33.6	33.6	21.6	12.02	2.799	
1,400.0	1,400.0	1,401.0	1,401.0	6.3	6.3	89.63	0.2	33.6	33.6	21.1	12.53	2.683	
1,500.0	1,500.0	1,501.0	1,501.0	6.5	6.5	89.63	0.2	33.6	33.6	20.6	13.03	2.580	
1,600.0	1,600.0	1,601.0	1,601.0	6.8	6.8	89.63	0.2	33.6	33.6	20.1	13.52	2.488	
1,700.0	1,700.0	1,701.0	1,701.0	7.0	7.0	89.63	0.2	33.6	33.6	19.6	13.99	2.404	
1,800.0	1,800.0	1,801.0	1,801.0	7.2	7.2	89.63	0.2	33.6	33.6	19.2	14.45	2.327	
1,900.0	1,900.0	1,901.0	1,901.0	7.4	7.5	89.63	0.2	33.6	33.6	18.7	14.90	2.257	
2,000.0	2,000.0	2,001.0	2,001.0	7.7	7.7	89.63	0.2	33.6	33.6	18.3	15.34	2.192	
2,100.0	2,100.0	2,101.0	2,101.0	7.9	7.9	89.63	0.2	33.6	33.6	17.9	15.77	2.132	
2,200.0	2,200.0	2,201.0	2,201.0	8.1	8.1	89.63	0.2	33.6	33.6	17.4	16.19	2.077	
2,300.0	2,300.0	2,301.0	2,301.0	8.3	8.3	89.63	0.2	33.6	33.6	17.0	16.61	2.025	
2,400.0	2,400.0	2,401.0	2,401.0	8.5	8.5	89.63	0.2	33.6	33.6	16.6	17.02	1.976	
2,500.0	2,500.0	2,501.0	2,501.0	8.7	8.7	89.63	0.2	33.6	33.6	16.2	17.42	1.931	
2,600.0	2,600.0	2,601.0	2,601.0	8.9	8.9	89.63	0.2	33.6	33.6	15.8	17.81	1.888	
2,700.0	2,700.0	2,701.0	2,701.0	9.1	9.1	89.63	0.2	33.6	33.6	15.4	18.20	1.848	
2,800.0	2,800.0	2,801.0	2,801.0	9.3	9.3	89.63	0.2	33.6	33.6	15.0	18.59	1.809	
2,900.0	2,900.0	2,901.0	2,901.0	9.5	9.5	89.63	0.2	33.6	33.6	14.7	18.97	1.773	
3,000.0	3,000.0	3,001.0	3,001.0	9.7	9.7	89.63	0.2	33.6	33.6	14.3	19.34	1.739	
3,100.0	3,100.0	3,101.0	3,101.0	9.9	9.9	89.63	0.2	33.6	33.6	13.9	19.71	1.706	
3,200.0	3,200.0	3,201.0	3,201.0	10.0	10.0	89.63	0.2	33.6	33.6	13.6	20.08	1.675	
3,300.0	3,300.0	3,301.0	3,301.0	10.2	10.2	89.63	0.2	33.6	33.6	13.2	20.44	1.646	
3,400.0	3,400.0	3,401.0	3,401.0	10.4	10.4	89.63	0.2	33.6	33.6	12.8	20.80	1.617	
3,500.0	3,500.0	3,501.0	3,501.0	10.6	10.6	89.63	0.2	33.6	33.6	12.5	21.15	1.590	
3,600.0	3,600.0	3,601.0	3,601.0	10.7	10.8	89.63	0.2	33.6	33.6	12.1	21.50	1.564	
3,700.0	3,700.0	3,701.0	3,701.0	10.9	10.9	89.63	0.2	33.6	33.6	11.8	21.85	1.539	
3,800.0	3,800.0	3,801.0	3,801.0	11.1	11.1	89.63	0.2	33.6	33.6	11.4	22.19	1.515	
3,900.0	3,900.0	3,901.0	3,901.0	11.3	11.3	89.63	0.2	33.6	33.6	11.1	22.53	1.493 Level 3	
4,000.0	4,000.0	4,001.0	4,001.0	11.4	11.4	89.63	0.2	33.6	33.6	10.8	22.87	1.470 Level 3	
4,100.0	4,100.0	4,101.0	4,101.0	11.6	11.6	89.63	0.2	33.6	33.6	10.4	23.21	1.449 Level 3	
4,200.0	4,200.0	4,201.0	4,201.0	11.8	11.8	89.63	0.2	33.6	33.6	10.1	23.54	1.429 Level 3	
4,300.0	4,300.0	4,301.0	4,301.0	11.9	11.9	89.63	0.2	33.6	33.6	9.8	23.87	1.409 Level 3	
4,400.0	4,400.0	4,401.0	4,401.0	12.1	12.1	89.63	0.2	33.6	33.6	9.4	24.20	1.390 Level 3	
4,500.0	4,500.0	4,501.0	4,501.0	12.3	12.3	89.63	0.2	33.6	33.6	9.1	24.53	1.371 Level 3	
4,600.0	4,600.0	4,601.0	4,601.0	12.4	12.4	89.63	0.2	33.6	33.6	8.8	24.85	1.353 Level 3	
4,700.0	4,700.0	4,701.0	4,701.0	12.6	12.6	89.63	0.2	33.6	33.6	8.5	25.17	1.336 Level 3	
4,800.0	4,800.0	4,801.0	4,801.0	12.7	12.7	89.63	0.2	33.6	33.6	8.1	25.49	1.319 Level 3	
4,900.0	4,900.0	4,901.0	4,901.0	12.9	12.9	89.63	0.2	33.6	33.6	7.8	25.81	1.303 Level 3	
5,000.0	5,000.0	5,001.0	5,001.0	13.1	13.1	89.63	0.2	33.6	33.6	7.5	26.13	1.287 Level 3	
5,100.0	5,100.0	5,101.0	5,101.0	13.2	13.2	89.63	0.2	33.6	33.6	7.2	26.44	1.272 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 554H
Project:	Hat Mesa	TVD Reference:	WELL @ 3703.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3703.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 554H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 554H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 554H - Prelim 2	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad C - Anderson Fed Com 602H - Anderson Fed Com 602H - Anderson Fed Com 602H - Prelim 2													Offset Site Error: 0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.0 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.0	5,200.0	5,201.0	5,201.0	13.4	13.4	89.63	0.2	33.6	33.6	6.9	26.75	1.257 Level 3	
5,300.0	5,300.0	5,301.0	5,301.0	13.5	13.5	89.63	0.2	33.6	33.6	6.6	27.06	1.243 Level 3	
5,400.0	5,400.0	5,401.0	5,401.0	13.7	13.7	89.63	0.2	33.6	33.6	6.3	27.37	1.229 Level 3, CC	
5,500.0	5,500.0	5,501.0	5,501.0	13.8	13.8	-92.71	0.2	33.6	33.7	6.1	27.60	1.220 Level 3	
5,600.0	5,600.0	5,601.0	5,601.0	13.8	14.0	-97.13	0.2	33.6	33.9	6.1	27.81	1.219 Level 3	
5,635.5	5,635.4	5,636.4	5,636.4	13.8	14.0	-99.19	0.1	33.6	34.1	6.2	27.83	1.224 Level 3	
5,700.0	5,699.9	5,701.0	5,701.0	13.9	14.1	-102.27	-0.7	33.6	34.4	6.5	27.88	1.235 Level 3	
5,800.0	5,799.8	5,801.1	5,801.1	13.9	14.1	-104.63	-3.3	33.6	34.8	6.8	27.97	1.244 Level 3	
5,900.0	5,899.7	5,901.2	5,901.0	14.0	14.2	-105.11	-7.1	33.6	34.9	6.9	28.04	1.246 Level 3	
6,000.0	5,999.6	6,001.2	6,001.0	14.2	14.2	-105.54	-10.9	33.6	35.1	6.9	28.15	1.246 Level 3	
6,100.0	6,099.5	6,101.2	6,100.9	14.3	14.3	-105.97	-14.7	33.6	35.2	6.9	28.27	1.246 Level 3	
6,200.0	6,199.5	6,201.2	6,200.8	14.4	14.5	-106.39	-18.6	33.6	35.3	7.0	28.39	1.245 Level 3	
6,300.0	6,299.4	6,301.2	6,300.7	14.6	14.6	-106.81	-22.4	33.6	35.5	7.0	28.52	1.244 Level 3	
6,400.0	6,399.3	6,401.2	6,400.7	14.8	14.7	-107.23	-26.2	33.6	35.6	7.0	28.66	1.243 Level 3	
6,500.0	6,499.2	6,501.1	6,500.6	15.0	14.9	-107.65	-30.0	33.6	35.8	7.0	28.80	1.242 Level 3	
6,600.0	6,599.1	6,601.1	6,600.5	15.2	15.0	-108.06	-33.9	33.6	35.9	7.0	28.95	1.240 Level 3	
6,700.0	6,699.0	6,701.1	6,700.5	15.4	15.2	-108.46	-37.7	33.6	36.0	6.9	29.10	1.239 Level 3	
6,800.0	6,799.0	6,801.1	6,800.4	15.6	15.4	-108.87	-41.5	33.6	36.2	6.9	29.26	1.237 Level 3	
6,900.0	6,898.9	6,901.1	6,900.3	15.8	15.6	-109.27	-45.3	33.6	36.3	6.9	29.43	1.235 Level 3	
7,000.0	6,898.8	7,001.1	7,000.2	16.0	15.8	-109.67	-49.1	33.6	36.5	6.9	29.61	1.233 Level 3	
7,100.0	7,098.7	7,101.1	7,100.2	16.3	16.0	-110.06	-53.0	33.6	36.6	6.9	29.79	1.230 Level 3	
7,200.0	7,198.6	7,201.1	7,200.1	16.5	16.3	-110.45	-56.8	33.6	36.8	6.8	29.98	1.227 Level 3	
7,300.0	7,298.5	7,301.1	7,300.0	16.8	16.5	-110.84	-60.6	33.6	37.0	6.8	30.18	1.224 Level 3	
7,400.0	7,398.4	7,401.1	7,399.9	17.1	16.7	-111.23	-64.4	33.6	37.1	6.7	30.39	1.221 Level 3	
7,500.0	7,498.4	7,501.1	7,499.9	17.4	17.0	-111.61	-68.2	33.6	37.3	6.7	30.60	1.218 Level 3	
7,600.0	7,598.3	7,601.1	7,599.8	17.6	17.2	-111.99	-72.1	33.6	37.4	6.6	30.83	1.214 Level 3	
7,700.0	7,698.2	7,701.1	7,699.7	17.9	17.5	-112.36	-75.9	33.6	37.6	6.5	31.06	1.210 Level 3	
7,800.0	7,798.1	7,801.1	7,799.6	18.2	17.8	-112.73	-79.7	33.6	37.8	6.5	31.30	1.206 Level 3	
7,900.0	7,898.0	7,901.1	7,899.6	18.5	18.1	-113.10	-83.5	33.6	37.9	6.4	31.55	1.202 Level 3	
8,000.0	7,997.9	8,001.1	7,999.5	18.8	18.3	-113.47	-87.3	33.6	38.1	6.3	31.81	1.197 Level 3	
8,100.0	8,097.9	8,101.1	8,099.4	19.2	18.6	-113.83	-91.2	33.6	38.3	6.2	32.08	1.193 Level 3	
8,200.0	8,197.8	8,201.1	8,199.3	19.5	18.9	-114.19	-95.0	33.6	38.4	6.1	32.36	1.188 Level 3	
8,300.0	8,297.7	8,301.1	8,299.3	19.8	19.2	-114.54	-98.8	33.6	38.6	6.0	32.65	1.182 Level 3	
8,400.0	8,397.6	8,401.1	8,399.2	20.1	19.6	-114.90	-102.6	33.6	38.8	5.8	32.94	1.177 Level 3	
8,500.0	8,497.5	8,501.1	8,499.1	20.5	19.9	-115.25	-106.4	33.6	38.9	5.7	33.25	1.171 Level 3	
8,600.0	8,597.4	8,601.1	8,599.1	20.8	20.2	-115.59	-110.3	33.6	39.1	5.6	33.56	1.166 Level 3	
8,700.0	8,697.3	8,701.1	8,699.0	21.2	20.5	-115.94	-114.1	33.6	39.3	5.4	33.89	1.160 Level 3	
8,800.0	8,797.3	8,801.1	8,798.9	21.5	20.8	-116.28	-117.9	33.6	39.5	5.3	34.22	1.153 Level 3	
8,900.0	8,897.2	8,901.1	8,898.8	21.9	21.2	-116.61	-121.7	33.6	39.7	5.1	34.57	1.147 Level 3	
9,000.0	8,997.1	9,001.1	8,998.8	22.2	21.5	-116.95	-125.5	33.6	39.8	4.9	34.92	1.141 Level 3	
9,100.0	9,097.0	9,101.1	9,098.7	22.6	21.9	-117.28	-129.4	33.6	40.0	4.7	35.29	1.134 Level 3	
9,200.0	9,196.9	9,201.1	9,198.6	22.9	22.2	-117.61	-133.2	33.6	40.2	4.5	35.66	1.127 Level 3	
9,300.0	9,296.8	9,301.1	9,298.5	23.3	22.6	-117.93	-137.0	33.6	40.4	4.3	36.04	1.121 Level 3	
9,400.0	9,396.8	9,401.1	9,398.5	23.7	22.9	-118.25	-140.8	33.6	40.6	4.1	36.43	1.114 Level 3	
9,500.0	9,496.7	9,501.1	9,498.4	24.1	23.3	-118.57	-144.6	33.6	40.8	3.9	36.83	1.107 Level 3	
9,600.0	9,596.6	9,601.1	9,598.3	24.4	23.6	-118.89	-148.5	33.6	41.0	3.7	37.24	1.100 Level 3	
9,700.0	9,696.5	9,701.1	9,698.2	24.8	24.0	-119.20	-152.3	33.6	41.1	3.5	37.66	1.092 Level 3	
9,800.0	9,796.4	9,801.1	9,798.2	25.2	24.3	-119.51	-156.1	33.6	41.3	3.2	38.09	1.085 Level 3	
9,900.0	9,896.3	9,901.1	9,898.1	25.6	24.7	-119.82	-159.9	33.6	41.5	3.0	38.52	1.078 Level 3	
10,000.0	9,996.2	10,001.1	9,998.0	26.0	25.1	-120.12	-163.7	33.6	41.7	2.7	38.97	1.071 Level 3	
10,100.0	10,096.2	10,101.1	10,098.0	26.3	25.5	-120.43	-167.6	33.6	41.9	2.5	39.43	1.063 Level 3	
10,200.0	10,196.1	10,201.1	10,197.9	26.7	25.8	-120.73	-171.4	33.6	42.1	2.2	39.89	1.056 Level 3	

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



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 554H
Project:	Hat Mesa	TVD Reference:	WELL @ 3703.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3703.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 554H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 554H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 554H - Prelim 2	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad C - Anderson Fed Com 602H - Anderson Fed Com 602H - Anderson Fed Com 602H - Prelim 2													Offset Site Error: 0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,268.6	10,264.6	10,269.7	10,266.4	27.0	26.1	-120.93	-174.0	33.6	42.2	2.1	40.19	1.051	Level 3
10,300.0	10,296.0	10,301.1	10,297.8	27.1	26.2	-120.92	-175.2	33.6	42.3	2.0	40.29	1.049	Level 3
10,400.0	10,396.0	10,401.1	10,397.7	27.5	26.6	-119.54	-179.0	33.6	41.7	1.5	40.22	1.038	Level 3
10,504.0	10,500.0	10,505.1	10,501.6	27.6	27.0	65.11	-183.0	33.6	40.4	1.1	39.33	1.027	Level 3
10,600.0	10,596.0	10,601.0	10,597.5	27.7	27.3	70.00	-186.7	33.6	39.0	0.8	38.14	1.022	Level 3, SF
10,676.6	10,672.5	10,677.5	10,673.9	27.7	27.6	74.14	-189.6	33.6	38.1	0.8	37.24	1.023	Level 3, ES
10,700.0	10,695.9	10,700.9	10,697.3	27.7	27.7	83.12	-190.5	33.6	37.8	1.0	36.80	1.026	Level 3
10,725.0	10,720.9	10,725.7	10,722.1	27.6	27.8	87.40	-191.4	33.6	37.4	1.4	36.07	1.038	Level 3
10,742.1	10,737.9	10,742.7	10,739.0	27.6	27.9	91.48	-192.1	33.6	37.3	1.7	35.59	1.049	Level 3
10,750.0	10,745.7	10,750.4	10,746.7	27.5	27.9	93.64	-192.4	33.6	37.4	1.9	35.43	1.054	Level 3
10,775.0	10,770.3	10,774.8	10,771.1	27.4	28.0	101.55	-193.3	33.6	38.0	2.5	35.51	1.069	Level 3
10,800.0	10,794.6	10,798.9	10,795.2	27.4	28.1	110.53	-194.2	33.6	39.8	2.9	36.86	1.079	Level 3
10,825.0	10,818.6	10,822.6	10,818.9	27.3	28.2	119.72	-195.1	33.6	43.2	3.8	39.39	1.097	Level 3
10,850.0	10,842.2	10,845.9	10,842.2	27.2	28.3	128.31	-196.0	33.6	48.5	6.1	42.43	1.143	Level 3
10,875.0	10,865.3	10,868.8	10,865.1	27.1	28.4	135.76	-196.8	33.6	55.7	10.4	45.25	1.230	Level 3
10,900.0	10,887.9	10,891.3	10,887.5	26.9	28.4	141.93	-197.5	33.6	64.6	17.1	47.52	1.359	Level 3
10,925.0	10,909.9	10,913.2	10,909.4	26.8	28.5	146.90	-198.1	33.6	75.1	25.9	49.24	1.526	
10,950.0	10,931.3	10,934.5	10,930.7	26.7	28.6	150.88	-198.5	33.6	87.1	36.6	50.50	1.725	
10,975.0	10,951.9	10,955.1	10,951.4	26.6	28.6	154.04	-198.9	33.6	100.4	49.0	51.41	1.953	
11,000.0	10,971.8	10,975.1	10,971.4	26.5	28.7	156.54	-199.2	33.6	114.9	62.9	52.07	2.207	
11,025.0	10,990.8	10,994.4	10,990.6	26.4	28.8	158.53	-199.5	33.6	130.6	78.0	52.56	2.484	
11,050.0	11,009.0	11,012.8	11,009.1	26.4	28.8	160.09	-199.6	33.6	147.3	94.4	52.90	2.784	
11,075.0	11,026.3	11,030.4	11,026.7	26.3	28.8	161.30	-199.7	33.6	164.9	111.8	53.14	3.104	
11,100.0	11,042.6	11,047.2	11,043.4	26.2	28.9	162.22	-199.8	33.6	183.5	130.2	53.32	3.442	
11,125.0	11,057.9	11,062.7	11,058.9	26.1	28.9	162.84	-199.8	33.6	202.9	149.5	53.45	3.797	
11,150.0	11,072.1	11,076.9	11,073.1	26.0	28.9	163.20	-199.8	33.6	223.2	169.7	53.53	4.169	
11,175.0	11,085.2	11,090.0	11,086.2	26.0	28.9	163.31	-199.8	33.6	244.2	190.6	53.59	4.557	
11,200.0	11,097.2	11,102.0	11,098.2	25.9	28.9	163.17	-199.8	33.6	265.9	212.3	53.64	4.957	
11,225.0	11,108.1	11,112.8	11,109.1	25.8	28.9	162.74	-199.8	33.6	288.2	234.6	53.67	5.370	
11,250.0	11,117.7	11,122.5	11,118.7	25.8	28.9	161.95	-199.8	33.6	311.1	257.4	53.70	5.794	
11,275.0	11,126.1	11,130.9	11,127.1	25.8	28.9	160.68	-199.8	33.6	334.5	280.8	53.72	6.226	
11,300.0	11,133.3	11,138.1	11,134.3	25.7	28.9	158.71	-199.8	33.6	358.3	304.6	53.74	6.667	
11,325.0	11,139.2	11,144.0	11,140.2	25.7	28.9	155.64	-199.8	33.6	382.5	328.7	53.76	7.115	
11,350.0	11,143.9	11,148.6	11,144.9	25.7	28.9	150.65	-199.8	33.6	407.0	353.2	53.78	7.567	
11,375.0	11,147.2	11,152.0	11,148.2	25.7	28.9	141.87	-199.8	33.6	431.6	377.8	53.80	8.023	
11,400.0	11,149.3	11,154.0	11,150.3	25.7	28.9	124.82	-199.8	33.6	456.5	402.6	53.82	8.481	
11,426.6	11,150.0	11,154.8	11,151.0	25.7	28.9	90.00	-199.8	33.6	483.0	429.1	53.85	8.968	
11,431.8	11,150.0	11,154.8	11,151.0	25.7	28.9	90.00	-199.8	33.6	488.1	434.3	53.86	9.063	
11,500.0	11,150.0	11,154.8	11,151.0	25.7	28.9	90.00	-199.8	33.6	556.1	502.2	53.93	10.311	
11,600.0	11,150.0	12,254.1	11,800.0	25.7	27.0	179.27	447.7	-66.7	649.1	580.6	68.50	9.475	
11,700.0	11,150.0	12,353.8	11,800.0	25.8	27.1	179.64	547.0	-75.1	649.0	580.0	69.03	9.403	
11,754.8	11,150.0	12,408.4	11,800.0	25.9	27.1	179.85	601.6	-78.3	649.0	579.7	69.33	9.361	
11,800.0	11,150.0	12,453.6	11,800.0	25.9	27.2	179.99	646.7	-80.1	649.0	579.4	69.61	9.324	
11,806.4	11,150.0	12,460.1	11,800.0	25.9	27.2	-180.00	653.2	-80.3	649.0	579.4	69.65	9.318	
11,900.0	11,150.0	12,553.6	11,800.0	26.2	27.5	-179.92	746.7	-81.7	649.0	578.7	70.25	9.238	
12,000.0	11,150.0	12,653.6	11,800.0	26.8	28.0	-179.93	846.7	-82.2	649.0	578.0	70.97	9.145	
12,100.0	11,150.0	12,753.6	11,800.0	28.0	29.0	-179.93	946.7	-82.8	649.0	577.3	71.75	9.046	
12,200.0	11,150.0	12,853.6	11,800.0	29.4	30.3	-179.93	1,046.7	-83.3	649.0	576.4	72.58	8.942	
12,300.0	11,150.0	12,953.6	11,800.0	31.0	31.8	-179.93	1,146.7	-83.9	649.0	575.5	73.47	8.833	
12,400.0	11,150.0	13,053.6	11,800.0	32.6	33.4	-179.93	1,246.7	-84.4	649.0	574.6	74.42	8.721	
12,500.0	11,150.0	13,153.6	11,800.0	34.3	35.0	-179.93	1,346.7	-85.0	649.0	573.6	75.42	8.606	
12,600.0	11,150.0	13,253.6	11,800.0	36.0	36.7	-179.93	1,446.7	-85.5	649.0	572.5	76.46	8.488	

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 554H
Project:	Hat Mesa	TVD Reference:	WELL @ 3703.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3703.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 554H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 554H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 554H - Prelim 2	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad C - Anderson Fed Com 602H - Anderson Fed Com 602H - Anderson Fed Com 602H - Prelim 2													Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM				Offset					Rule Assigned:				Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
12,700.0	11,150.0	13,353.6	11,800.0	37.8	38.4	-179.93	1,546.7	-86.1	649.0	571.4	77.56	8.368		
12,800.0	11,150.0	13,453.6	11,800.0	39.5	40.2	-179.94	1,646.7	-86.6	649.0	570.3	78.70	8.247		
12,900.0	11,150.0	13,553.6	11,800.0	41.3	41.9	-179.94	1,746.7	-87.2	649.0	569.1	79.88	8.124		
13,000.0	11,150.0	13,653.6	11,800.0	43.2	43.7	-179.94	1,846.7	-87.7	649.0	567.9	81.11	8.002		
13,100.0	11,150.0	13,753.6	11,800.0	45.0	45.5	-179.94	1,946.7	-88.3	649.0	566.6	82.38	7.879		
13,200.0	11,150.0	13,853.6	11,800.0	46.8	47.4	-179.94	2,046.7	-88.8	649.0	565.3	83.68	7.756		
13,300.0	11,150.0	13,953.6	11,800.0	48.7	49.2	-179.94	2,146.7	-89.4	649.0	564.0	85.02	7.633		
13,400.0	11,150.0	14,053.6	11,800.0	50.6	51.1	-179.94	2,246.7	-89.9	649.0	562.6	86.40	7.512		
13,500.0	11,150.0	14,153.6	11,800.0	52.5	53.0	-179.94	2,346.7	-90.5	649.0	561.2	87.80	7.391		
13,600.0	11,150.0	14,253.6	11,800.0	54.4	54.8	-179.95	2,446.7	-91.0	649.0	559.8	89.24	7.272		
13,700.0	11,150.0	14,353.6	11,800.0	56.3	56.7	-179.95	2,546.7	-91.6	649.0	558.3	90.71	7.154		
13,800.0	11,150.0	14,453.6	11,800.0	58.2	58.6	-179.95	2,646.7	-92.1	649.0	556.8	92.21	7.038		
13,900.0	11,150.0	14,553.6	11,800.0	60.1	60.5	-179.95	2,746.7	-92.6	649.0	555.3	93.74	6.924		
14,000.0	11,150.0	14,653.6	11,800.0	62.0	62.5	-179.95	2,846.7	-93.2	649.0	553.7	95.29	6.811		
14,100.0	11,150.0	14,753.6	11,800.0	64.0	64.4	-179.95	2,946.7	-93.7	649.0	552.1	96.86	6.700		
14,200.0	11,150.0	14,853.6	11,800.0	65.9	66.3	-179.95	3,046.7	-94.3	649.0	550.5	98.46	6.591		
14,300.0	11,150.0	14,953.6	11,800.0	67.8	68.2	-179.95	3,146.7	-94.8	649.0	548.9	100.08	6.484		
14,400.0	11,150.0	15,053.6	11,800.0	69.8	70.2	-179.96	3,246.7	-95.4	649.0	547.3	101.73	6.380		
14,500.0	11,150.0	15,153.6	11,800.0	71.7	72.1	-179.96	3,346.7	-95.9	649.0	545.6	103.39	6.277		
14,600.0	11,150.0	15,253.6	11,800.0	73.7	74.1	-179.96	3,446.7	-96.5	649.0	543.9	105.07	6.177		
14,700.0	11,150.0	15,353.6	11,800.0	75.6	76.0	-179.96	3,546.7	-97.0	649.0	542.2	106.77	6.078		
14,800.0	11,150.0	15,453.6	11,800.0	77.6	78.0	-179.96	3,646.7	-97.6	649.0	540.5	108.49	5.982		
14,900.0	11,150.0	15,553.6	11,800.0	79.6	79.9	-179.96	3,746.7	-98.1	649.0	538.8	110.23	5.888		
15,000.0	11,150.0	15,653.6	11,800.0	81.5	81.9	-179.96	3,846.7	-98.7	649.0	537.0	111.98	5.796		
15,100.0	11,150.0	15,753.6	11,800.0	83.5	83.8	-179.96	3,946.7	-99.2	649.0	535.3	113.74	5.706		
15,200.0	11,150.0	15,853.6	11,800.0	85.4	85.8	-179.97	4,046.7	-99.8	649.0	533.5	115.53	5.618		
15,300.0	11,150.0	15,953.6	11,800.0	87.4	87.8	-179.97	4,146.7	-100.3	649.0	531.7	117.32	5.532		
15,400.0	11,150.0	16,053.6	11,800.0	89.4	89.7	-179.97	4,246.7	-100.9	649.0	529.9	119.13	5.448		
15,500.0	11,150.0	16,153.6	11,800.0	91.4	91.7	-179.97	4,346.7	-101.4	649.0	528.1	120.95	5.366		
15,600.0	11,150.0	16,253.6	11,800.0	93.3	93.7	-179.97	4,446.7	-102.0	649.0	526.2	122.78	5.286		
15,700.0	11,150.0	16,353.6	11,800.0	95.3	95.6	-179.97	4,546.7	-102.5	649.0	524.4	124.62	5.208		
15,800.0	11,150.0	16,453.6	11,800.0	97.3	97.6	-179.97	4,646.7	-103.1	649.0	522.5	126.48	5.131		
15,900.0	11,150.0	16,553.6	11,800.0	99.3	99.6	-179.98	4,746.6	-103.6	649.0	520.7	128.34	5.057		
16,000.0	11,150.0	16,653.6	11,800.0	101.3	101.6	-179.98	4,846.6	-104.2	649.0	518.8	130.22	4.984		
16,100.0	11,150.0	16,753.6	11,800.0	103.2	103.6	-179.98	4,946.6	-104.7	649.0	516.9	132.10	4.913		
16,200.0	11,150.0	16,853.6	11,800.0	105.2	105.5	-179.98	5,046.6	-105.3	649.0	515.0	134.00	4.843		
16,300.0	11,150.0	16,953.6	11,800.0	107.2	107.5	-179.98	5,146.6	-105.8	649.0	513.1	135.90	4.775		
16,400.0	11,150.0	17,053.6	11,800.0	109.2	109.5	-179.98	5,246.6	-106.4	649.0	511.2	137.81	4.709		
16,500.0	11,150.0	17,153.6	11,800.0	111.2	111.5	-179.98	5,346.6	-106.9	649.0	509.3	139.73	4.645		
16,600.0	11,150.0	17,253.6	11,800.0	113.2	113.5	-179.98	5,446.6	-107.4	649.0	507.3	141.66	4.581		
16,700.0	11,150.0	17,353.6	11,800.0	115.2	115.5	-179.99	5,546.6	-108.0	649.0	505.4	143.60	4.520		
16,800.0	11,150.0	17,453.6	11,800.0	117.2	117.4	-179.99	5,646.6	-108.5	649.0	503.5	145.54	4.459		
16,900.0	11,150.0	17,553.6	11,800.0	119.2	119.4	-179.99	5,746.6	-109.1	649.0	501.5	147.49	4.400		
17,000.0	11,150.0	17,653.6	11,800.0	121.1	121.4	-179.99	5,846.6	-109.6	649.0	499.6	149.44	4.343		
17,100.0	11,150.0	17,753.6	11,800.0	123.1	123.4	-179.99	5,946.6	-110.2	649.0	497.6	151.41	4.286		
17,200.0	11,150.0	17,853.6	11,800.0	125.1	125.4	-179.99	6,046.6	-110.7	649.0	495.6	153.37	4.231		
17,300.0	11,150.0	17,953.6	11,800.0	127.1	127.4	-179.99	6,146.6	-111.3	649.0	493.7	155.35	4.178		
17,400.0	11,150.0	18,053.6	11,800.0	129.1	129.4	-179.99	6,246.6	-111.8	649.0	491.7	157.33	4.125		
17,500.0	11,150.0	18,153.6	11,800.0	131.1	131.4	-180.00	6,346.6	-112.4	649.0	489.7	159.31	4.074		
17,600.0	11,150.0	18,253.6	11,800.0	133.1	133.4	-180.00	6,446.6	-112.9	649.0	487.7	161.31	4.023		
17,700.0	11,150.0	18,353.6	11,800.0	135.1	135.4	-180.00	6,546.6	-113.5	649.0	485.7	163.30	3.974		
17,800.0	11,150.0	18,453.6	11,800.0	137.1	137.4	-180.00	6,646.6	-114.0	649.0	483.7	165.30	3.926		

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



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 554H
Project:	Hat Mesa	TVD Reference:	WELL @ 3703.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3703.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 554H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 554H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 554H - Prelim 2	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad C - Anderson Fed Com 602H - Anderson Fed Com 602H - Anderson Fed Com 602H - Prelim 2													Offset Site Error: 0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
17,836.4	11,150.0	18,490.0	11,800.0	137.8	138.1	180.00	6,683.0	-114.2	649.0	483.0	166.03	3.909	



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 554H
Project:	Hat Mesa	TVD Reference:	WELL @ 3703.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3703.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 554H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 554H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 554H - Prelim 2	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad C - Anderson Fed Com 702H - Anderson Fed Com 702H - Anderson Fed Com 702H - Prelim 2												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	0.0	0.0	0.0	0.0	-90.58	-1.0	-98.4	98.5				
100.0	100.0	96.0	96.0	0.5	0.5	-90.58	-1.0	-98.4	98.4	97.4	1.04	94.726	
200.0	200.0	196.0	196.0	1.7	1.7	-90.58	-1.0	-98.4	98.4	95.1	3.38	29.153	
300.0	300.0	296.0	296.0	2.4	2.4	-90.58	-1.0	-98.4	98.4	93.6	4.79	20.528	
400.0	400.0	396.0	396.0	3.0	2.9	-90.58	-1.0	-98.4	98.4	92.5	5.89	16.722	
500.0	500.0	496.0	496.0	3.4	3.4	-90.58	-1.0	-98.4	98.4	91.6	6.81	14.450	
600.0	600.0	596.0	596.0	3.8	3.8	-90.58	-1.0	-98.4	98.4	90.8	7.63	12.896	
700.0	700.0	696.0	696.0	4.2	4.2	-90.58	-1.0	-98.4	98.4	90.1	8.38	11.747	
800.0	800.0	796.0	796.0	4.5	4.5	-90.58	-1.0	-98.4	98.4	89.4	9.07	10.852	
900.0	900.0	896.0	896.0	4.9	4.9	-90.58	-1.0	-98.4	98.4	88.7	9.72	10.129	
1,000.0	1,000.0	996.0	996.0	5.2	5.2	-90.58	-1.0	-98.4	98.4	88.1	10.33	9.529	
1,100.0	1,100.0	1,096.0	1,096.0	5.5	5.4	-90.58	-1.0	-98.4	98.4	87.5	10.91	9.021	
1,200.0	1,200.0	1,196.0	1,196.0	5.7	5.7	-90.58	-1.0	-98.4	98.4	87.0	11.47	8.583	
1,300.0	1,300.0	1,296.0	1,296.0	6.0	6.0	-90.58	-1.0	-98.4	98.4	86.4	12.00	8.200	
1,400.0	1,400.0	1,396.0	1,396.0	6.3	6.3	-90.58	-1.0	-98.4	98.4	85.9	12.52	7.861	
1,500.0	1,500.0	1,496.0	1,496.0	6.5	6.5	-90.58	-1.0	-98.4	98.4	85.4	13.02	7.559	
1,600.0	1,600.0	1,596.0	1,596.0	6.8	6.7	-90.58	-1.0	-98.4	98.4	84.9	13.51	7.287	
1,700.0	1,700.0	1,696.0	1,696.0	7.0	7.0	-90.58	-1.0	-98.4	98.4	84.5	13.98	7.041	
1,800.0	1,800.0	1,796.0	1,796.0	7.2	7.2	-90.58	-1.0	-98.4	98.4	84.0	14.44	6.816	
1,900.0	1,900.0	1,896.0	1,896.0	7.4	7.4	-90.58	-1.0	-98.4	98.4	83.5	14.89	6.610	
2,000.0	2,000.0	1,996.0	1,996.0	7.7	7.7	-90.58	-1.0	-98.4	98.4	83.1	15.33	6.421	
2,100.0	2,100.0	2,096.0	2,096.0	7.9	7.9	-90.58	-1.0	-98.4	98.4	82.7	15.76	6.245	
2,200.0	2,200.0	2,196.0	2,196.0	8.1	8.1	-90.58	-1.0	-98.4	98.4	82.2	16.18	6.082	
2,300.0	2,300.0	2,296.0	2,296.0	8.3	8.3	-90.58	-1.0	-98.4	98.4	81.8	16.60	5.930	
2,400.0	2,400.0	2,396.0	2,396.0	8.5	8.5	-90.58	-1.0	-98.4	98.4	81.4	17.01	5.787	
2,500.0	2,500.0	2,496.0	2,496.0	8.7	8.7	-90.58	-1.0	-98.4	98.4	81.0	17.41	5.654	
2,600.0	2,600.0	2,596.0	2,596.0	8.9	8.9	-90.58	-1.0	-98.4	98.4	80.6	17.80	5.528	
2,700.0	2,700.0	2,696.0	2,696.0	9.1	9.1	-90.58	-1.0	-98.4	98.4	80.2	18.19	5.410	
2,800.0	2,800.0	2,796.0	2,796.0	9.3	9.3	-90.58	-1.0	-98.4	98.4	79.9	18.58	5.298	
2,900.0	2,900.0	2,896.0	2,896.0	9.5	9.5	-90.58	-1.0	-98.4	98.4	79.5	18.96	5.192	
3,000.0	3,000.0	2,996.0	2,996.0	9.7	9.7	-90.58	-1.0	-98.4	98.4	79.1	19.33	5.092	
3,100.0	3,100.0	3,096.0	3,096.0	9.9	9.8	-90.58	-1.0	-98.4	98.4	78.7	19.70	4.996	
3,200.0	3,200.0	3,196.0	3,196.0	10.0	10.0	-90.58	-1.0	-98.4	98.4	78.4	20.07	4.905	
3,300.0	3,300.0	3,296.0	3,296.0	10.2	10.2	-90.58	-1.0	-98.4	98.4	78.0	20.43	4.818	
3,400.0	3,400.0	3,396.0	3,396.0	10.4	10.4	-90.58	-1.0	-98.4	98.4	77.6	20.79	4.735	
3,500.0	3,500.0	3,496.0	3,496.0	10.6	10.6	-90.58	-1.0	-98.4	98.4	77.3	21.14	4.656	
3,600.0	3,600.0	3,596.0	3,596.0	10.7	10.7	-90.58	-1.0	-98.4	98.4	76.9	21.49	4.580	
3,700.0	3,700.0	3,696.0	3,696.0	10.9	10.9	-90.58	-1.0	-98.4	98.4	76.6	21.84	4.507	
3,800.0	3,800.0	3,796.0	3,796.0	11.1	11.1	-90.58	-1.0	-98.4	98.4	76.2	22.18	4.437	
3,900.0	3,900.0	3,896.0	3,896.0	11.3	11.3	-90.58	-1.0	-98.4	98.4	75.9	22.53	4.370	
4,000.0	4,000.0	3,996.0	3,996.0	11.4	11.4	-90.58	-1.0	-98.4	98.4	75.6	22.86	4.305	
4,100.0	4,100.0	4,096.0	4,096.0	11.6	11.6	-90.58	-1.0	-98.4	98.4	75.2	23.20	4.243	
4,200.0	4,200.0	4,196.0	4,196.0	11.8	11.8	-90.58	-1.0	-98.4	98.4	74.9	23.53	4.183	
4,300.0	4,300.0	4,296.0	4,296.0	11.9	11.9	-90.58	-1.0	-98.4	98.4	74.6	23.86	4.125	
4,400.0	4,400.0	4,396.0	4,396.0	12.1	12.1	-90.58	-1.0	-98.4	98.4	74.2	24.19	4.069	
4,500.0	4,500.0	4,496.0	4,496.0	12.3	12.3	-90.58	-1.0	-98.4	98.4	73.9	24.52	4.014	
4,600.0	4,600.0	4,596.0	4,596.0	12.4	12.4	-90.58	-1.0	-98.4	98.4	73.6	24.84	3.962	
4,700.0	4,700.0	4,696.0	4,696.0	12.6	12.6	-90.58	-1.0	-98.4	98.4	73.3	25.16	3.911	
4,800.0	4,800.0	4,796.0	4,796.0	12.7	12.7	-90.58	-1.0	-98.4	98.4	72.9	25.48	3.862	
4,900.0	4,900.0	4,896.0	4,896.0	12.9	12.9	-90.58	-1.0	-98.4	98.4	72.6	25.80	3.815	
5,000.0	5,000.0	4,996.0	4,996.0	13.1	13.1	-90.58	-1.0	-98.4	98.4	72.3	26.12	3.769	
5,100.0	5,100.0	5,096.0	5,096.0	13.2	13.2	-90.58	-1.0	-98.4	98.4	72.0	26.43	3.724	

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 554H
Project:	Hat Mesa	TVD Reference:	WELL @ 3703.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3703.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 554H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 554H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 554H - Prelim 2	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad C - Anderson Fed Com 702H - Anderson Fed Com 702H - Anderson Fed Com 702H - Prelim 2													Offset Site Error: 0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.0	5,200.0	5,196.0	5,196.0	13.4	13.4	-90.58	-1.0	-98.4	98.4	71.7	26.75	3.680	
5,300.0	5,300.0	5,296.0	5,296.0	13.5	13.5	-90.58	-1.0	-98.4	98.4	71.4	27.06	3.638	
5,400.0	5,400.0	5,396.0	5,396.0	13.7	13.7	-90.58	-1.0	-98.4	98.4	71.1	27.37	3.597	CC, ES, SF
5,500.0	5,500.0	5,494.5	5,494.5	13.8	13.8	88.90	-1.3	-99.2	99.2	71.6	27.54	3.600	
5,600.0	5,600.0	5,592.8	5,592.8	13.8	13.9	89.86	-2.1	-101.5	101.5	73.8	27.69	3.665	
5,635.5	5,635.4	5,627.7	5,627.6	13.8	13.9	90.33	-2.5	-102.7	102.7	75.0	27.71	3.706	
5,700.0	5,699.9	5,691.0	5,690.9	13.9	14.0	91.19	-3.5	-105.4	105.4	77.7	27.78	3.796	
5,800.0	5,799.8	5,789.2	5,788.9	13.9	14.1	92.14	-5.5	-110.8	111.0	83.1	27.94	3.975	
5,900.0	5,899.7	5,887.1	5,886.5	14.0	14.3	92.67	-8.1	-117.9	118.2	90.1	28.12	4.205	
6,000.0	5,999.6	5,986.5	5,985.6	14.2	14.4	92.95	-11.0	-126.0	126.4	98.1	28.33	4.462	
6,100.0	6,099.5	6,086.2	6,084.8	14.3	14.6	93.19	-14.0	-134.2	134.6	106.0	28.56	4.713	
6,200.0	6,199.5	6,185.8	6,184.1	14.4	14.8	93.40	-17.0	-142.3	142.8	114.0	28.80	4.958	
6,300.0	6,299.4	6,285.5	6,283.4	14.6	15.0	93.60	-19.9	-150.5	151.0	121.9	29.06	5.195	
6,400.0	6,399.3	6,385.2	6,382.7	14.8	15.3	93.77	-22.9	-158.6	159.2	129.8	29.34	5.426	
6,500.0	6,499.2	6,484.8	6,482.0	15.0	15.5	93.92	-25.9	-166.8	167.4	137.7	29.62	5.649	
6,600.0	6,599.1	6,584.5	6,581.3	15.2	15.8	94.07	-28.9	-175.0	175.6	145.6	29.93	5.866	
6,700.0	6,699.0	6,684.2	6,680.5	15.4	16.1	94.19	-31.8	-183.1	183.7	153.5	30.24	6.076	
6,800.0	6,799.0	6,783.8	6,779.8	15.6	16.3	94.31	-34.8	-191.3	191.9	161.4	30.57	6.279	
6,900.0	6,898.9	6,883.5	6,879.1	15.8	16.7	94.42	-37.8	-199.5	200.1	169.2	30.91	6.475	
7,000.0	6,998.8	6,983.1	6,978.4	16.0	17.0	94.52	-40.7	-207.6	208.3	177.1	31.26	6.664	
7,100.0	7,098.7	7,082.8	7,077.7	16.3	17.3	94.61	-43.7	-215.8	216.5	184.9	31.63	6.847	
7,200.0	7,198.6	7,182.5	7,177.0	16.5	17.6	94.70	-46.7	-223.9	224.7	192.7	32.00	7.023	
7,300.0	7,298.5	7,282.1	7,276.2	16.8	18.0	94.78	-49.7	-232.1	232.9	200.5	32.38	7.193	
7,400.0	7,398.4	7,381.8	7,375.5	17.1	18.3	94.85	-52.6	-240.3	241.1	208.4	32.77	7.357	
7,500.0	7,498.4	7,481.5	7,474.8	17.4	18.7	94.92	-55.6	-248.4	249.3	216.2	33.18	7.515	
7,600.0	7,598.3	7,581.1	7,574.1	17.6	19.1	94.98	-58.6	-256.6	257.5	223.9	33.59	7.668	
7,700.0	7,698.2	7,680.8	7,673.4	17.9	19.5	95.04	-61.5	-264.8	265.7	231.7	34.00	7.814	
7,800.0	7,798.1	7,780.4	7,772.7	18.2	19.8	95.10	-64.5	-272.9	273.9	239.5	34.43	7.956	
7,900.0	7,898.0	7,880.1	7,871.9	18.5	20.2	95.15	-67.5	-281.1	282.1	247.3	34.86	8.092	
8,000.0	7,997.9	7,979.8	7,971.2	18.8	20.6	95.20	-70.4	-289.2	290.3	255.0	35.30	8.223	
8,100.0	8,097.9	8,079.4	8,070.5	19.2	21.0	95.25	-73.4	-297.4	298.5	262.8	35.75	8.350	
8,200.0	8,197.8	8,179.1	8,169.8	19.5	21.5	95.30	-76.4	-305.6	306.7	270.5	36.21	8.472	
8,300.0	8,297.7	8,278.8	8,269.1	19.8	21.9	95.34	-79.4	-313.7	314.9	278.3	36.67	8.589	
8,400.0	8,397.6	8,378.4	8,368.4	20.1	22.3	95.38	-82.3	-321.9	323.1	286.0	37.13	8.702	
8,500.0	8,497.5	8,478.1	8,467.6	20.5	22.7	95.42	-85.3	-330.1	331.3	293.7	37.60	8.811	
8,600.0	8,597.4	8,577.8	8,566.9	20.8	23.2	95.46	-88.3	-338.2	339.5	301.5	38.08	8.917	
8,700.0	8,697.3	8,677.4	8,666.2	21.2	23.6	95.49	-91.2	-346.4	347.7	309.2	38.56	9.018	
8,800.0	8,797.3	8,777.1	8,765.5	21.5	24.1	95.53	-94.2	-354.5	355.9	316.9	39.05	9.116	
8,900.0	8,897.2	8,876.7	8,864.8	21.9	24.5	95.56	-97.2	-362.7	364.1	324.6	39.54	9.210	
9,000.0	8,997.1	8,976.4	8,964.1	22.2	24.9	95.59	-100.2	-370.9	372.3	332.3	40.03	9.301	
9,100.0	9,097.0	9,076.1	9,063.3	22.6	25.4	95.62	-103.1	-379.0	380.5	340.0	40.53	9.388	
9,200.0	9,196.9	9,175.7	9,162.6	22.9	25.9	95.65	-106.1	-387.2	388.7	347.7	41.04	9.473	
9,300.0	9,296.8	9,275.4	9,261.9	23.3	26.3	95.67	-109.1	-395.4	397.0	355.4	41.55	9.554	
9,400.0	9,396.8	9,375.1	9,361.2	23.7	26.8	95.70	-112.0	-403.5	405.2	363.1	42.06	9.633	
9,500.0	9,496.7	9,474.7	9,460.5	24.1	27.3	95.72	-115.0	-411.7	413.4	370.8	42.57	9.709	
9,600.0	9,596.6	9,574.4	9,559.8	24.4	27.7	95.75	-118.0	-419.8	421.6	378.5	43.09	9.783	
9,700.0	9,696.5	9,674.0	9,659.0	24.8	28.2	95.77	-121.0	-428.0	429.8	386.1	43.62	9.853	
9,800.0	9,796.4	9,773.7	9,758.3	25.2	28.7	95.79	-123.9	-436.2	438.0	393.8	44.14	9.922	
9,900.0	9,896.3	9,873.4	9,857.6	25.6	29.1	95.81	-126.9	-444.3	446.2	401.5	44.67	9.988	
10,000.0	9,996.2	9,973.0	9,956.9	26.0	29.6	95.83	-129.9	-452.5	454.4	409.2	45.20	10.052	
10,100.0	10,096.2	10,072.7	10,056.2	26.3	30.1	95.85	-132.8	-460.7	462.6	416.8	45.74	10.114	
10,200.0	10,196.1	10,172.4	10,155.5	26.7	30.6	95.87	-135.8	-468.8	470.8	424.5	46.27	10.174	

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 554H
Project:	Hat Mesa	TVD Reference:	WELL @ 3703.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3703.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 554H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 554H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 554H - Prelim 2	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad C - Anderson Fed Com 702H - Anderson Fed Com 702H - Anderson Fed Com 702H - Prelim 2												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,268.6	10,264.6	10,240.7	10,223.6	27.0	30.9	95.88	-137.8	-474.4	476.4	429.8	46.62	10.218	
10,300.0	10,296.0	10,272.0	10,254.8	27.1	31.1	95.91	-138.8	-477.0	479.0	432.2	46.77	10.240	
10,400.0	10,396.0	10,371.7	10,354.0	27.5	31.6	95.84	-141.7	-485.1	487.0	439.7	47.32	10.293	
10,504.0	10,500.0	10,475.4	10,457.3	27.6	32.1	-83.59	-144.8	-493.6	495.2	447.4	47.88	10.342	
10,600.0	10,596.0	10,570.9	10,552.5	27.7	32.5	-84.01	-147.7	-501.5	502.7	454.3	48.43	10.381	
10,676.6	10,672.5	10,647.2	10,628.5	27.7	32.9	-84.34	-150.0	-507.7	508.8	459.9	48.86	10.413	
10,700.0	10,695.9	10,670.5	10,651.8	27.7	33.0	-77.52	-150.7	-509.6	510.5	461.5	48.98	10.422	
10,725.0	10,720.9	10,695.3	10,676.5	27.6	33.1	-77.64	-151.4	-511.6	512.0	462.9	49.13	10.423	
10,750.0	10,745.7	10,720.0	10,701.0	27.5	33.3	-77.93	-152.1	-513.7	513.4	464.1	49.28	10.416	
10,775.0	10,770.3	10,744.4	10,725.3	27.4	33.4	-78.38	-152.9	-515.7	514.4	465.0	49.46	10.402	
10,800.0	10,794.6	10,768.5	10,749.3	27.4	33.5	-78.97	-153.6	-517.6	515.3	465.7	49.64	10.381	
10,825.0	10,818.6	10,792.3	10,773.0	27.3	33.6	-79.70	-154.3	-519.6	516.1	466.2	49.84	10.354	
10,850.0	10,842.2	10,815.6	10,796.3	27.2	33.7	-80.55	-155.0	-521.5	516.7	466.7	50.06	10.321	
10,875.0	10,865.3	10,838.5	10,819.0	27.1	33.9	-81.51	-155.7	-523.4	517.3	467.0	50.30	10.285	
10,900.0	10,887.9	10,860.8	10,841.2	26.9	34.0	-82.55	-156.3	-525.2	517.9	467.4	50.56	10.245	
10,925.0	10,909.9	10,882.4	10,862.8	26.8	34.1	-83.65	-157.0	-527.0	518.7	467.8	50.83	10.204	
10,950.0	10,931.3	10,903.5	10,883.8	26.7	34.2	-84.79	-157.6	-528.7	519.6	468.5	51.13	10.163	
10,975.0	10,951.9	10,923.7	10,904.0	26.6	34.3	-85.96	-158.2	-530.4	520.8	469.3	51.44	10.124	
11,000.0	10,971.8	10,943.2	10,923.4	26.5	34.4	-87.11	-158.8	-532.0	522.3	470.5	51.77	10.088	
11,025.0	10,990.8	10,961.9	10,942.0	26.4	34.5	-88.24	-159.3	-533.5	524.2	472.1	52.12	10.058	
11,050.0	11,009.0	10,979.7	10,959.7	26.4	34.6	-89.31	-159.9	-534.9	526.7	474.2	52.48	10.036	
11,075.0	11,026.3	10,996.5	10,976.5	26.3	34.6	-90.29	-160.4	-536.3	529.7	476.9	52.85	10.023	
11,100.0	11,042.6	11,012.4	10,992.3	26.2	34.7	-91.17	-160.8	-537.6	533.4	480.2	53.23	10.021	
11,125.0	11,057.9	11,027.2	11,007.1	26.1	34.8	-91.91	-161.3	-538.8	537.8	484.2	53.61	10.033	
11,150.0	11,072.1	11,041.0	11,020.8	26.0	34.9	-92.51	-161.7	-540.0	543.0	489.1	53.98	10.060	
11,175.0	11,085.2	11,053.6	11,033.4	26.0	34.9	-92.93	-162.1	-541.0	549.1	494.7	54.34	10.104	
11,200.0	11,097.2	11,065.2	11,044.9	25.9	35.0	-93.16	-162.4	-541.9	556.0	501.3	54.69	10.165	
11,225.0	11,108.1	11,075.5	11,055.2	25.8	35.0	-93.19	-162.7	-542.8	563.7	508.7	55.02	10.245	
11,250.0	11,117.7	11,084.7	11,064.3	25.8	35.1	-92.98	-163.0	-543.5	572.4	517.1	55.33	10.345	
11,275.0	11,126.1	11,092.6	11,072.2	25.8	35.1	-92.55	-163.2	-544.2	581.9	526.3	55.61	10.465	
11,300.0	11,133.3	11,099.2	11,078.8	25.7	35.2	-91.86	-163.4	-544.7	592.3	536.5	55.85	10.605	
11,325.0	11,139.2	11,104.7	11,084.2	25.7	35.2	-90.91	-163.6	-545.2	603.6	547.5	56.07	10.764	
11,350.0	11,143.9	11,108.8	11,088.3	25.7	35.2	-89.70	-163.7	-545.5	615.6	559.3	56.26	10.942	
11,375.0	11,147.2	11,111.6	11,091.2	25.7	35.2	-88.22	-163.8	-545.7	628.4	571.9	56.41	11.139	
11,400.0	11,149.3	11,113.2	11,092.7	25.7	35.2	-86.47	-163.9	-545.9	641.8	585.3	56.54	11.352	
11,426.6	11,150.0	11,113.4	11,092.9	25.7	35.2	-84.33	-163.9	-545.9	656.8	600.1	56.64	11.595	
11,431.8	11,150.0	11,113.3	11,092.8	25.7	35.2	-84.32	-163.9	-545.9	659.8	603.1	56.66	11.645	
11,500.0	11,150.0	11,111.8	11,091.4	25.7	35.2	-84.06	-163.8	-545.8	702.1	645.3	56.81	12.360	
11,600.0	11,150.0	11,109.5	11,089.0	25.7	35.2	-83.58	-163.7	-545.6	773.0	716.1	56.87	13.591	
11,700.0	11,150.0	11,106.9	11,086.4	25.8	35.2	-82.98	-163.7	-545.4	851.8	795.0	56.79	14.998	
11,754.8	11,150.0	11,105.3	11,084.9	25.9	35.2	-82.58	-163.6	-545.2	897.5	840.8	56.69	15.832	
11,800.0	11,150.0	11,104.0	11,083.5	25.9	35.2	-82.42	-163.6	-545.1	936.3	879.7	56.59	16.544	

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

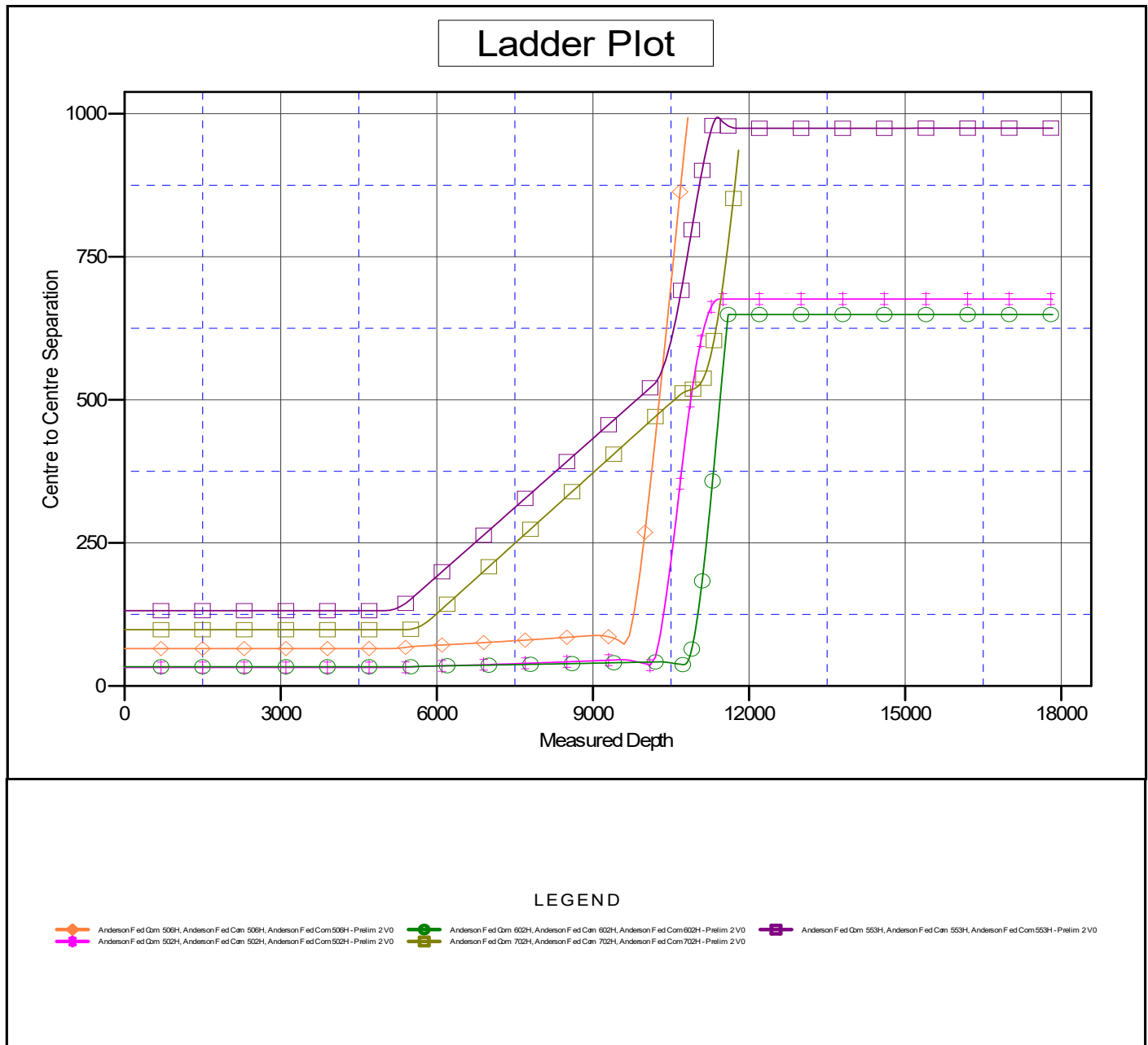


Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 554H
Project:	Hat Mesa	TVD Reference:	WELL @ 3703.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad C	MD Reference:	WELL @ 3703.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 554H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 554H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 554H - Prelim 2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 3703.5usft (Original Well Ele)
 Offset Depths are relative to Offset Datum
 Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Anderson Fed Com 554H
 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



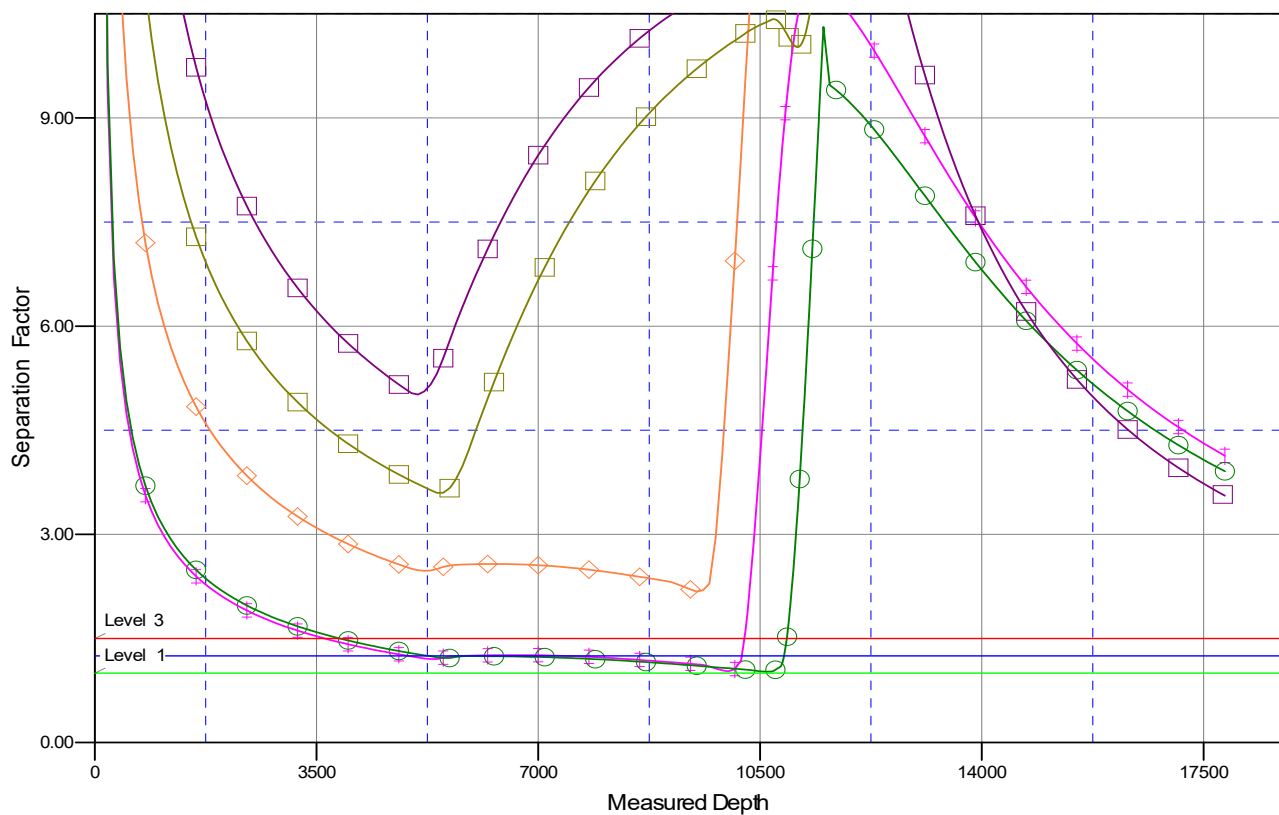
Anticollision Report

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Reference Well:	Anderson Fed Com 554H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 554H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 554H - Prelim 2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 3703.5usft (Original Well Ele
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Anderson Fed Com 554H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.37°

Separation Factor Plot



LEGEND

Anderson Fed Com 506H, Anderson Fed Com 506H, Anderson Fed Com 506H - Prelim 2 V0
Anderson Fed Com 602H, Anderson Fed Com 602H, Anderson Fed Com 602H - Prelim 2 V0
Anderson Fed Com 553H, Anderson Fed Com 553H, Anderson Fed Com 553H - Prelim 2 V0
Anderson Fed Com 502H, Anderson Fed Com 502H, Anderson Fed Com 502H - Prelim 2 V0
Anderson Fed Com 702H, Anderson Fed Com 702H, Anderson Fed Com 702H - Prelim 2 V0

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

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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 41616

CONDITIONS

Operator: ADVANCE ENERGY PARTNERS HAT MESA, LLC 11490 Westheimer Rd., Ste 950 Houston, TX 77077	OGRID: 372417
	Action Number: 41616
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

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