

Well Name: ANDERSON FED COM	Well Location: T22S / R32E / SEC 2 / LOT 4 /	County or Parish/State:
Well Number: 701H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM120905	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002549482	Well Status: Approved Application for Permit to Drill	Operator: ADVANCE ENERGY PARTNERS HAT MESA LLC

Notice of Intent

Sundry ID: 2643022

Type of Submission: Notice of Intent

Type of Action: Other

Date Sundry Submitted: 11/04/2021

Time Sundry Submitted: 11:56

Date proposed operation will begin: 11/15/2021

Procedure Description: Request to move the Surface Hole Location from 180' FNL & 776' FWL, Section 2, T-22-S, R-32-E, Lot 4 to 180' FNL & 611' FWL, Section 2, T-22-S, R-32-E, Lot 4. Request to move the Bottom Hole Location from 2540' FSL & 990' FWL, Section 26, T-21-S, R-32-E, NWSW to 2540' FSL & 330' FWL, Section 26, T-21-S, R-32-E, NWSW. Please see attached drill plan, directional plan, and plats for detailed information regarding changes to casing, cement, and mud programs.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

Anderson_701H_SHL_BHL_etc_Sundry_Attachment_20211104115510.pdf

Well Name: ANDERSON FED COM	Well Location: T22S / R32E / SEC 2 / LOT 4 /	County or Parish/State:
Well Number: 701H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM120905	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002549482	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: NOV 04, 2021 11:55 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: 11/19/2021
Signature: Chris Walls	

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

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

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

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources Department

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

Form C-102

Revised August 4, 2011

Submit one copy to appropriate
District Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-49482	Pool Code 51683	Pool Name RED TANK; BONE SPRING
Property Code 326484	Property Name ANDERSON FED COM	Well Number 701H
OGRID No. 372417	Operator Name ADVANCE ENERGY PARTNERS HAT MESA, LLC	Elevation 3692'

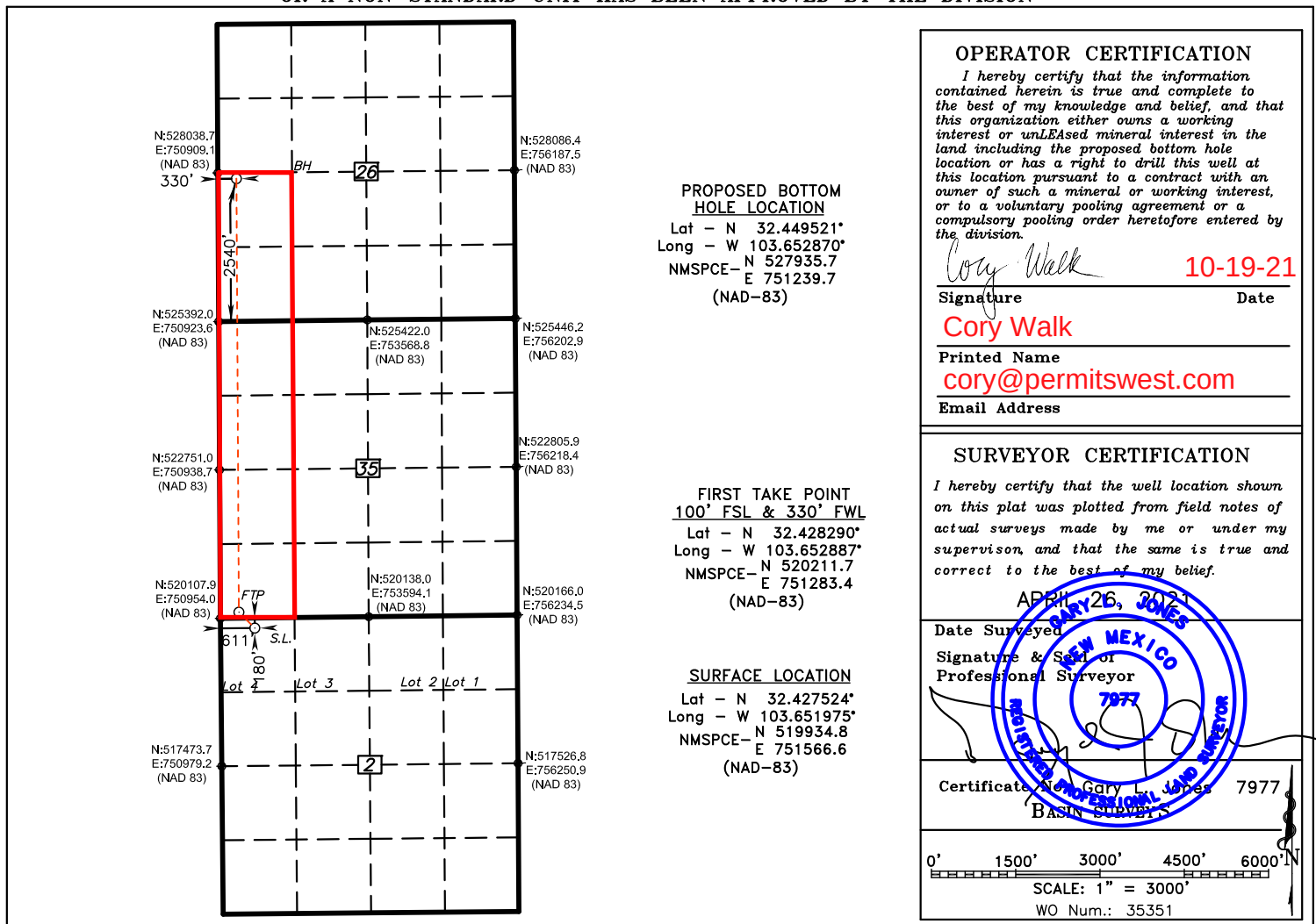
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	SOUTH/South line	Feet from the	East/West line	County
LOT 4	2	22 S	32 E		180	NORTH	611	WEST	LEA

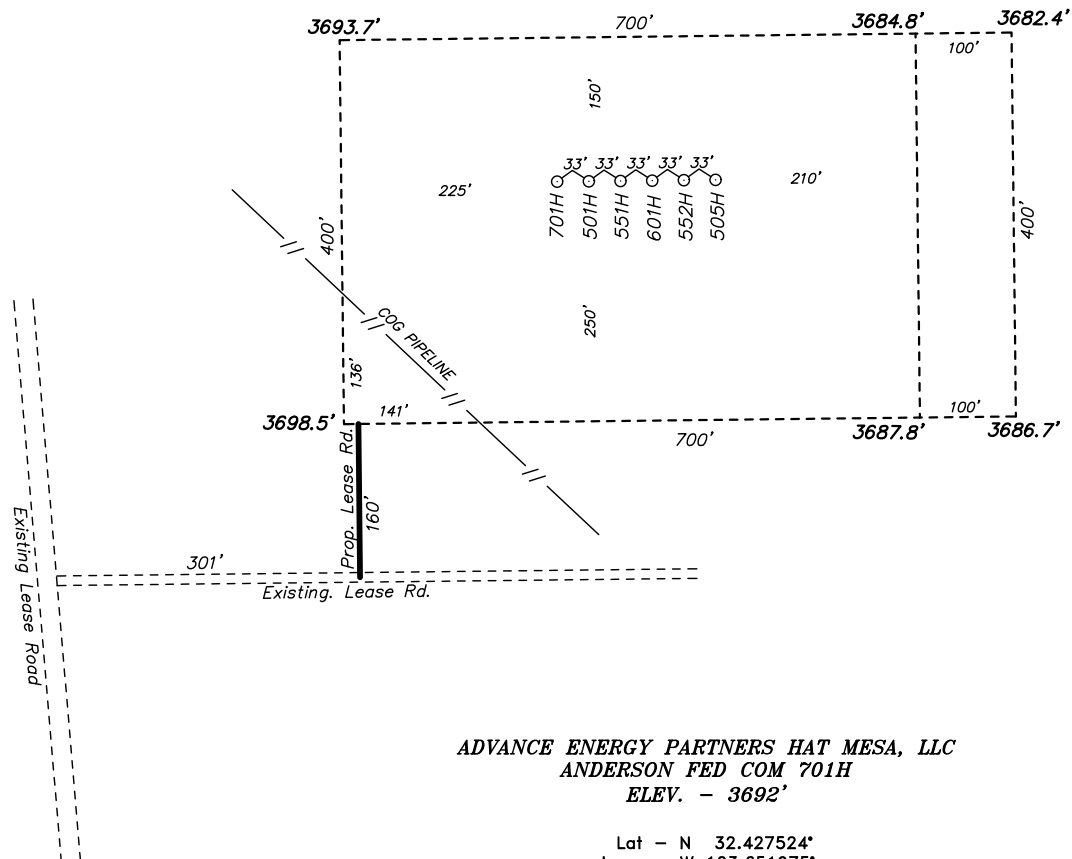
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	SOUTH/South line	Feet from the	East/West line	County
L	26	21 S	32 E		2540	SOUTH	330	WEST	LEA
Dedicated Acres 240	Joint or Infill	Consolidation Code C	Order No.						

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



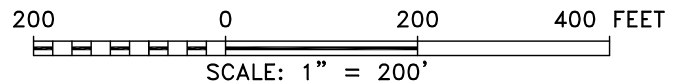
**SECTION 2, TOWNSHIP 22 SOUTH, RANGE 32 EAST. N.M.P.M.,
LEA COUNTY, NEW MEXICO.**



**ADVANCE ENERGY PARTNERS HAT MESA, LLC
ANDERSON FED COM 701H
ELEV. - 3692'**

Lat - N 32.427524°
Long - W 103.651975°
NMSPCE - N 519934.8
E 751566.6
(NAD-83)

EUNICE, NM IS ±28 MILES TO THE EAST OF LOCATION.



ADVANCE ENERGY PARTNERS HAT MESA, LLC

REF: ANDERSON FED COM 701H / WELL PAD TOPO

THE ANDERSON FED COM 701H LOCATED 180' FROM
THE NORTH LINE AND 611' FROM THE WEST LINE OF
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

W.O. Number: 35351 Drawn By: K. GOAD Date: 05-02-2021 Survey Date: 04-26-2021 Sheet 1 of 1 Sheets

CHANGE TO PLANS

Move Surface Hole Location

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

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

Move First Take Point

From: 100' FSL & 990' FWL, Section 35, T-21-S, R-32-E, SWSW

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

Move Bottom Hole Location

From: 2540' FSL & 990' FWL, Section 26, T-21-S, R-32-E, NWSW

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

Change Target Zone

From: Wolfcamp carbonate

To: 1st Bone Spring sandstone

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

Advance Energy Partners Hat Mesa, LLC
 Anderson Fed Com 701H
 SHL 180' FNL & 611' FWL Section 2, T22S, R32E
 BHL 2540' FSL & 330' FWL Section 26, T21S, R32E
 Lea County, NM

DRILL PLAN PAGE 1

Drilling Program

1. ESTIMATED TOPS

Formation Name	TVD	MD	Bearing
Quaternary caliche	000'	000'	water
Rustler anhydrite (surface csg set @ 1212')	1187'	1187'	N/A
Salado salt	1225'	1225'	Salt
Tansil limestone (intermediate csg set @ 4715')	3321'	3321'	N/A
Bell Canyon sandstone	4765'	4765'	N/A
Lower Brushy Canyon sandstone	8412'	8424'	hydrocarbons
Bone Spring Lime	8772'	8777'	hydrocarbons
Avalon shale	8932'	8937'	Hydrocarbons
KOP	9423'	9437'	hydrocarbons
1 st Bone Spring sandstone	9799'	9871'	hydrocarbons
TD	9900'	17911'	hydrocarbons

2. NOTABLE ZONES

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

3. PRESSURE CONTROL

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

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

Advance Energy Partners Hat Mesa, LLC
 Anderson Fed Com 701H
 SHL 180' FNL & 611' FWL Section 2, T22S, R32E
 BHL 2540' FSL & 330' FWL Section 26, T21S, R32E
 Lea County, NM

DRILL PLAN PAGE 2

Variance is requested to use a speed head (aka, multi-bowl wellhead) after setting intermediate 1. Advance has drilled >50 wells in immediate area to depths >5,000' and never encountered any type of flows. This will allow Advance to land the intermediate 1 and use the current proposed wellhead design. Advance will then NU BOPE on the 10.75" and continue using the BOPE to the completion of the well.

4. CASING & CEMENT

Name	Hole OD	Casing OD	Tapered	Top MD	Bottom MD	Top TVD	BTM TVD	Grade	Weight	Thread	Collapse	Burst	Tension
Surface	17.5"	13.375"	No	0	1212	0	1212	J-55	54.5	BTC	1.125	1.125	1.6
1st Intermediate	12.25"	9.625"	No	0	4000	0	4000	J-55	40	LTC	1.125	1.125	1.6
	12.25"	9.625"	No	4000	4715	4000	4715	HCL-80	40	LTC	1.125	1.125	1.6
Production	8.5"	5.5"	No	0	17911	0	9900	HCP-110	20	CDC-HTQ	1.125	1.125	1.6

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

Bow spring centralizers will be installed on the surface (10 bowsprings) and intermediate (59 bowsprings) casing strings.

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

Cement additive names in following table are West Texas Cementers trade names. They, or equivalent, products will be used.

Advance Energy Partners Hat Mesa, LLC
 Anderson Fed Com 701H
 SHL 180' FNL & 611' FWL Section 2, T22S, R32E
 BHL 2540' FSL & 330' FWL Section 26, T21S, R32E
 Lea County, NM

DRILL PLAN PAGE 3

Name	Type	Top MD	Sacks	Yield	Cu. Ft	Weight	Excess	Cement	Additives
Surface	Lead	0	500	1.9	950	12.8	50%	B Poz + C	6% Gel + 5% SALT + 0.25PPS Pol-E-Flake + 0.005GPS NoFoam V1A
	Tail	912	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	734%	B Poz + C	2% Gel + 5% SALT + 0.2% R1300 + 0.25PPS Pol-E-Flake + 0.005GPS NoFoam V1A
	Tail	3768	310	1.22	378	15.6	20%	H	5% SALT + 0.2% SMS + 0.35% C-20 + 0.005GPS NoFoam V1A
1st Intermediate (stage 2)	Lead	0	460	3	1380	11	153%	Prolite	5PPS Plexcrete STE + 2% SMS + 0.05% SuspendedCem 6302 + 0.5% C-47B + 3PPS Gilsonite + 0.005GPS NoFoam V1A
	Tail	2395	100	1.33	133	14.8	0%	C	0.05% C-20 + 0.005GPS NoFoam V1A
Production	Lead	0	845	3.39	2865	10.7	50%	Prolite	5PPS Plexcrete STE + 2% SMS + 0.05% SuspendedCem 6302 + 0.4% R-1300 + 0.5% C-47B + 3PPS Gilsonite + 0.005GPS NoFoam V1A
	Tail	9437	1925	1.22	2349	14.5	20%	B Poz + H	5% SALT + 0.05% SuspendedCem 6302 + 0.65% C-20 + 0.5% C-47B + 0.005GPS NoFoam V1A

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

5. MUD PROGRAM

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

Name	Top	Bottom	Type	Mud Weight (ppg)	Visc	Fluid Loss
Surface	0	1212	FW Spud Mud	8.4 - 10.0	28 - 36	NC
Intermediate 1	1212	4715	Brine Water	10.0 - 10.5	28 - 32	NC
Production	4715	10187	Cut Brine	9.2 - 9.5	28 - 30	NC
Production	10187	17911	OBM	9.5 - 9.8	55 - 65	6 - 8

Advance Energy Partners Hat Mesa, LLC
Anderson Fed Com 701H
SHL 180' FNL & 611' FWL Section 2, T22S, R32E
BHL 2540' FSL & 330' FWL Section 26, T21S, R32E
Lea County, NM

DRILL PLAN PAGE 4

6. CORES, TESTS, & LOGS

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

7. DOWN HOLE CONDITIONS

No abnormal pressure or temperature is expected. Maximum expected bottom hole pressure is ≈ 5427 psi. Expected bottom hole temperature is $\approx 214^{\circ}$ F.

H2S monitoring and detection equipment will be used from surface casing point to TD.

8. OTHER INFORMATION

Anticipated spud date is upon approval. It is expected it will take ≈ 3 -4 months to drill and complete the well.

**WELL DETAILS: Anderson Fed Com 701H**

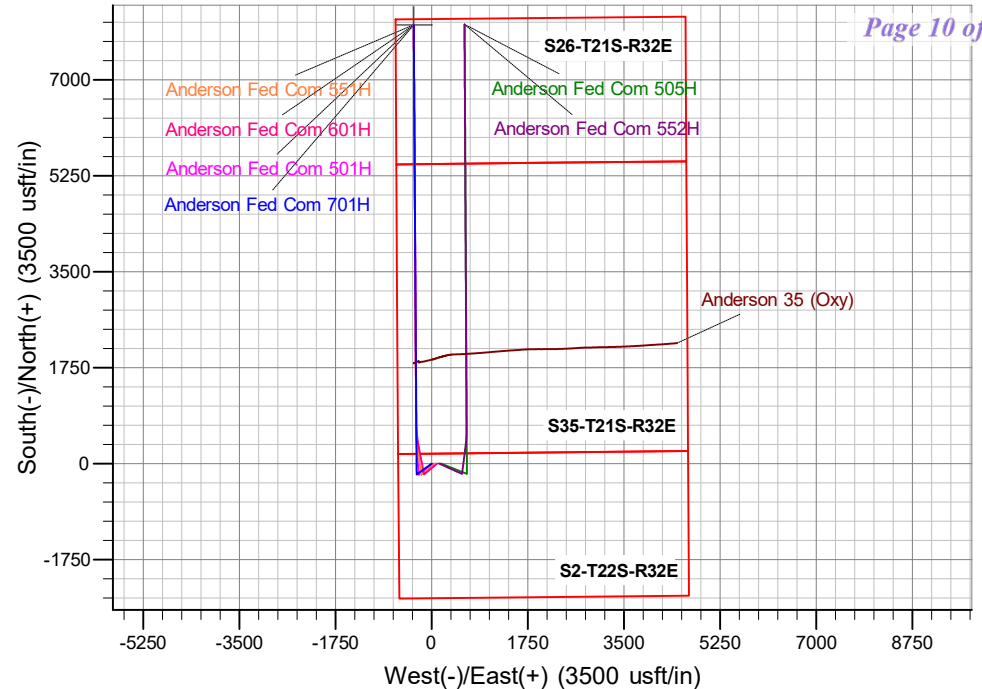
Ground Elev: 3692.0 KB: 3724.5

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	519934.69	751566.65	32° 25' 39.086 N	103° 39' 7.110 W

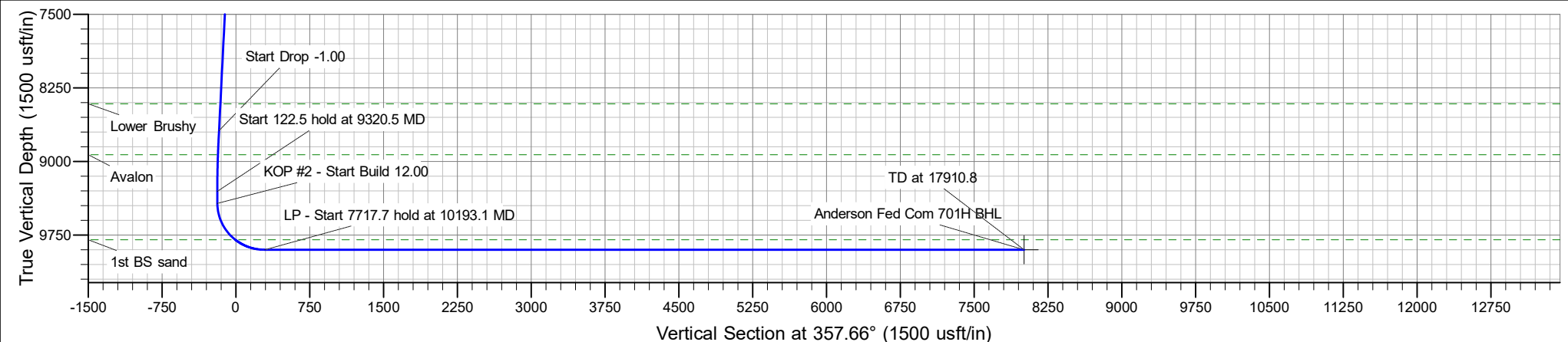
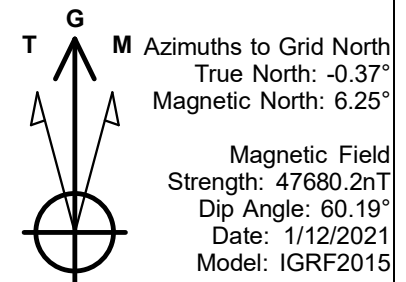
PROJECT DETAILS: Hat Mesa

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

System Datum: Mean Sea Level

**SECTION DETAILS**

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	5000.0	0.00	0.00	5000.0	0.0	0.0	0.00	0.00	0.0	KOP - Start Build 1.00
3	5513.2	5.13	233.97	5512.5	-13.5	-18.6	1.00	233.97	-12.7	
4	8801.4	5.13	233.97	8787.5	-186.5	-256.4	0.00	0.00	-175.9	
5	9314.6	0.00	0.00	9300.0	-200.0	-275.0	1.00	180.00	-188.6	
6	9437.1	0.00	0.00	9422.5	-200.0	-275.0	0.00	0.00	-188.6	
7	10187.1	90.00	359.64	9900.0	277.5	-278.0	12.00	359.64	288.6	
8	17910.6	90.00	359.64	9900.0	8000.8	-327.1	0.00	0.00	8007.5	TD at 17910.8





Advance Energy Partners

Hat Mesa

Anderson Fed Com - Pad D

Anderson Fed Com 701H

Anderson Fed Com 701H

Plan: Anderson Fed Com 701H - Prelim 1

Standard Planning Report

23 August, 2021



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Anderson Fed Com 701H
Company:	Advance Energy Partners	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site:	Anderson Fed Com - Pad D	North Reference:	Grid
Well:	Anderson Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 701H		
Design:	Anderson Fed Com 701H - Prelim 1		

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

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

Well	Anderson Fed Com 701H					
Well Position	+N/-S	0.0 usft	Northing:	519,934.69 usft	Latitude:	32° 25' 39.086 N
	+E/-W	0.0 usft	Easting:	751,566.65 usft	Longitude:	103° 39' 7.110 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,692.0 usft
Grid Convergence:		0.37 °				

Wellbore	Anderson Fed Com 701H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	1/12/2021	6.62	60.19	47,680.22824999

Design	Anderson Fed Com 701H - Prelim 1				
Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	357.66	

Plan Survey Tool Program	Date	8/23/2021			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	17,910.6	Anderson Fed Com 701H - Prelim	MWD+HRGM	
			OWSG MWD + HRGM		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,513.2	5.13	233.97	5,512.5	-13.5	-18.6	1.00	1.00	0.00	233.97	
8,801.4	5.13	233.97	8,787.5	-186.5	-256.4	0.00	0.00	0.00	0.00	
9,314.6	0.00	0.00	9,300.0	-200.0	-275.0	1.00	-1.00	0.00	180.00	
9,437.1	0.00	0.00	9,422.5	-200.0	-275.0	0.00	0.00	0.00	0.00	
10,187.1	90.00	359.64	9,900.0	277.5	-278.0	12.00	12.00	0.00	359.64	
17,910.6	90.00	359.64	9,900.0	8,000.8	-327.1	0.00	0.00	0.00	0.00	Anderson Fed Com 701H



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Anderson Fed Com 701H
Company:	Advance Energy Partners	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site:	Anderson Fed Com - Pad D	North Reference:	Grid
Well:	Anderson Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 701H		
Design:	Anderson Fed Com 701H - Prelim 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,187.0	0.00	0.00	1,187.0	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
4,765.0	0.00	0.00	4,765.0	0.0	0.0	0.0	0.00	0.00	0.00
Base of Limestone									
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Anderson Fed Com 701H
Company:	Advance Energy Partners	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site:	Anderson Fed Com - Pad D	North Reference:	Grid
Well:	Anderson Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 701H		
Design:	Anderson Fed Com 701H - Prelim 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP - Start Build 1.00									
5,100.0	1.00	233.97	5,100.0	-0.5	-0.7	-0.5	1.00	1.00	0.00
5,200.0	2.00	233.97	5,200.0	-2.1	-2.8	-1.9	1.00	1.00	0.00
5,300.0	3.00	233.97	5,299.9	-4.6	-6.4	-4.4	1.00	1.00	0.00
5,400.0	4.00	233.97	5,399.7	-8.2	-11.3	-7.7	1.00	1.00	0.00
5,500.0	5.00	233.97	5,499.4	-12.8	-17.6	-12.1	1.00	1.00	0.00
5,513.2	5.13	233.97	5,512.5	-13.5	-18.6	-12.7	1.00	1.00	0.00
5,600.0	5.13	233.97	5,599.0	-18.1	-24.9	-17.0	0.00	0.00	0.00
5,621.7	5.13	233.97	5,620.6	-19.2	-26.4	-18.1	0.00	0.00	0.00
Start 3077.0 hold at 5621.8 MD									
5,700.0	5.13	233.97	5,698.6	-23.3	-32.1	-22.0	0.00	0.00	0.00
5,800.0	5.13	233.97	5,798.2	-28.6	-39.3	-27.0	0.00	0.00	0.00
5,900.0	5.13	233.97	5,897.8	-33.9	-46.6	-31.9	0.00	0.00	0.00
6,000.0	5.13	233.97	5,997.4	-39.1	-53.8	-36.9	0.00	0.00	0.00
6,100.0	5.13	233.97	6,097.0	-44.4	-61.0	-41.8	0.00	0.00	0.00
6,200.0	5.13	233.97	6,196.6	-49.6	-68.3	-46.8	0.00	0.00	0.00
6,300.0	5.13	233.97	6,296.2	-54.9	-75.5	-51.8	0.00	0.00	0.00
6,400.0	5.13	233.97	6,395.8	-60.2	-82.7	-56.7	0.00	0.00	0.00
6,500.0	5.13	233.97	6,495.4	-65.4	-90.0	-61.7	0.00	0.00	0.00
6,600.0	5.13	233.97	6,595.0	-70.7	-97.2	-66.7	0.00	0.00	0.00
6,700.0	5.13	233.97	6,694.6	-75.9	-104.4	-71.6	0.00	0.00	0.00
6,800.0	5.13	233.97	6,794.2	-81.2	-111.7	-76.6	0.00	0.00	0.00
6,900.0	5.13	233.97	6,893.8	-86.5	-118.9	-81.5	0.00	0.00	0.00
7,000.0	5.13	233.97	6,993.4	-91.7	-126.1	-86.5	0.00	0.00	0.00
7,100.0	5.13	233.97	7,093.0	-97.0	-133.4	-91.5	0.00	0.00	0.00
7,200.0	5.13	233.97	7,192.6	-102.2	-140.6	-96.4	0.00	0.00	0.00
7,300.0	5.13	233.97	7,292.2	-107.5	-147.8	-101.4	0.00	0.00	0.00
7,400.0	5.13	233.97	7,391.8	-112.8	-155.1	-106.3	0.00	0.00	0.00
7,500.0	5.13	233.97	7,491.4	-118.0	-162.3	-111.3	0.00	0.00	0.00
7,600.0	5.13	233.97	7,591.0	-123.3	-169.5	-116.3	0.00	0.00	0.00
7,700.0	5.13	233.97	7,690.5	-128.6	-176.8	-121.2	0.00	0.00	0.00
7,800.0	5.13	233.97	7,790.1	-133.8	-184.0	-126.2	0.00	0.00	0.00
7,900.0	5.13	233.97	7,889.7	-139.1	-191.2	-131.1	0.00	0.00	0.00
8,000.0	5.13	233.97	7,989.3	-144.3	-198.5	-136.1	0.00	0.00	0.00
8,100.0	5.13	233.97	8,088.9	-149.6	-205.7	-141.1	0.00	0.00	0.00
8,200.0	5.13	233.97	8,188.5	-154.9	-212.9	-146.0	0.00	0.00	0.00
8,300.0	5.13	233.97	8,288.1	-160.1	-220.2	-151.0	0.00	0.00	0.00
8,400.0	5.13	233.97	8,387.7	-165.4	-227.4	-155.9	0.00	0.00	0.00
8,424.4	5.13	233.97	8,412.0	-166.7	-229.2	-157.2	0.00	0.00	0.00
Lower Brushy									
8,500.0	5.13	233.97	8,487.3	-170.6	-234.6	-160.9	0.00	0.00	0.00
8,600.0	5.13	233.97	8,586.9	-175.9	-241.9	-165.9	0.00	0.00	0.00
8,698.8	5.13	233.97	8,685.3	-181.1	-249.0	-170.8	0.00	0.00	0.00
Start Drop -1.00									
8,700.0	5.13	233.97	8,686.5	-181.2	-249.1	-170.8	0.00	0.00	0.00
8,800.0	5.13	233.97	8,786.1	-186.4	-256.3	-175.8	0.00	0.00	0.00
8,801.4	5.13	233.97	8,787.5	-186.5	-256.4	-175.9	0.00	0.00	0.00
8,900.0	4.15	233.97	8,885.8	-191.2	-262.9	-180.3	1.00	-1.00	0.00
8,946.3	3.68	233.97	8,932.0	-193.0	-265.4	-182.0	1.00	-1.00	0.00
Avalon									
9,000.0	3.15	233.97	8,985.6	-194.9	-268.0	-183.8	1.00	-1.00	0.00
9,100.0	2.15	233.97	9,085.5	-197.6	-271.8	-186.4	1.00	-1.00	0.00



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Anderson Fed Com 701H
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Project:	Hat Mesa	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site:	Anderson Fed Com - Pad D	North Reference:	Grid
Well:	Anderson Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 701H		
Design:	Anderson Fed Com 701H - Prelim 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,200.0	1.15	233.97	9,185.5	-199.3	-274.1	-188.0	1.00	-1.00	0.00
9,300.0	0.15	233.97	9,285.4	-200.0	-275.0	-188.6	1.00	-1.00	0.00
9,314.6	0.00	0.00	9,300.0	-200.0	-275.0	-188.6	1.00	-1.00	0.00
9,320.5	0.00	0.00	9,306.0	-200.0	-275.0	-188.6	0.00	0.00	0.00
Start 122.5 hold at 9320.5 MD									
9,400.0	0.00	0.00	9,385.4	-200.0	-275.0	-188.6	0.00	0.00	0.00
9,437.1	0.00	0.00	9,422.5	-200.0	-275.0	-188.6	0.00	0.00	0.00
9,443.1	0.72	359.64	9,428.5	-200.0	-275.0	-188.6	12.00	12.00	0.00
KOP #2 - Start Build 12.00									
9,500.0	7.55	359.64	9,485.3	-195.9	-275.0	-184.5	12.00	12.00	0.00
9,600.0	19.55	359.64	9,582.3	-172.5	-275.2	-161.1	12.00	12.00	0.00
9,700.0	31.55	359.64	9,672.4	-129.4	-275.4	-118.1	12.00	12.00	0.00
9,800.0	43.55	359.64	9,751.5	-68.6	-275.8	-57.3	12.00	12.00	0.00
9,870.8	52.04	359.64	9,799.0	-16.2	-276.2	-4.9	12.00	12.00	0.00
1st BS sand									
9,900.0	55.55	359.64	9,816.3	7.4	-276.3	18.6	12.00	12.00	0.00
10,000.0	67.55	359.64	9,863.8	95.1	-276.9	106.4	12.00	12.00	0.00
10,100.0	79.55	359.64	9,892.1	190.9	-277.5	202.0	12.00	12.00	0.00
10,187.1	90.00	359.64	9,900.0	277.5	-278.0	288.6	12.00	12.00	0.00
10,193.1	90.00	359.64	9,900.0	283.4	-278.1	294.6	0.00	0.00	0.00
LP - Start 7717.7 hold at 10193.1 MD									
10,200.0	90.00	359.64	9,900.0	290.4	-278.1	301.5	0.00	0.00	0.00
10,300.0	90.00	359.64	9,900.0	390.4	-278.8	401.4	0.00	0.00	0.00
10,400.0	90.00	359.64	9,900.0	490.4	-279.4	501.4	0.00	0.00	0.00
10,500.0	90.00	359.64	9,900.0	590.4	-280.0	601.3	0.00	0.00	0.00
10,600.0	90.00	359.64	9,900.0	690.4	-280.7	701.3	0.00	0.00	0.00
10,700.0	90.00	359.64	9,900.0	790.4	-281.3	801.2	0.00	0.00	0.00
10,800.0	90.00	359.64	9,900.0	890.4	-281.9	901.1	0.00	0.00	0.00
10,900.0	90.00	359.64	9,900.0	990.4	-282.6	1,001.1	0.00	0.00	0.00
11,000.0	90.00	359.64	9,900.0	1,090.4	-283.2	1,101.0	0.00	0.00	0.00
11,100.0	90.00	359.64	9,900.0	1,190.4	-283.8	1,201.0	0.00	0.00	0.00
11,200.0	90.00	359.64	9,900.0	1,290.3	-284.5	1,300.9	0.00	0.00	0.00
11,300.0	90.00	359.64	9,900.0	1,390.3	-285.1	1,400.8	0.00	0.00	0.00
11,400.0	90.00	359.64	9,900.0	1,490.3	-285.7	1,500.8	0.00	0.00	0.00
11,500.0	90.00	359.64	9,900.0	1,590.3	-286.4	1,600.7	0.00	0.00	0.00
11,600.0	90.00	359.64	9,900.0	1,690.3	-287.0	1,700.7	0.00	0.00	0.00
11,700.0	90.00	359.64	9,900.0	1,790.3	-287.7	1,800.6	0.00	0.00	0.00
11,800.0	90.00	359.64	9,900.0	1,890.3	-288.3	1,900.5	0.00	0.00	0.00
11,900.0	90.00	359.64	9,900.0	1,990.3	-288.9	2,000.5	0.00	0.00	0.00
12,000.0	90.00	359.64	9,900.0	2,090.3	-289.6	2,100.4	0.00	0.00	0.00
12,100.0	90.00	359.64	9,900.0	2,190.3	-290.2	2,200.4	0.00	0.00	0.00
12,200.0	90.00	359.64	9,900.0	2,290.3	-290.8	2,300.3	0.00	0.00	0.00
12,300.0	90.00	359.64	9,900.0	2,390.3	-291.5	2,400.2	0.00	0.00	0.00
12,400.0	90.00	359.64	9,900.0	2,490.3	-292.1	2,500.2	0.00	0.00	0.00
12,500.0	90.00	359.64	9,900.0	2,590.3	-292.7	2,600.1	0.00	0.00	0.00
12,600.0	90.00	359.64	9,900.0	2,690.3	-293.4	2,700.1	0.00	0.00	0.00
12,700.0	90.00	359.64	9,900.0	2,790.3	-294.0	2,800.0	0.00	0.00	0.00
12,800.0	90.00	359.64	9,900.0	2,890.3	-294.6	2,899.9	0.00	0.00	0.00
12,900.0	90.00	359.64	9,900.0	2,990.3	-295.3	2,999.9	0.00	0.00	0.00
13,000.0	90.00	359.64	9,900.0	3,090.3	-295.9	3,099.8	0.00	0.00	0.00
13,100.0	90.00	359.64	9,900.0	3,190.3	-296.6	3,199.8	0.00	0.00	0.00
13,200.0	90.00	359.64	9,900.0	3,290.3	-297.2	3,299.7	0.00	0.00	0.00
13,300.0	90.00	359.64	9,900.0	3,390.3	-297.8	3,399.6	0.00	0.00	0.00



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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)
13,400.0	90.00	359.64	9,900.0	3,490.3	-298.5	3,499.6	0.00	0.00	0.00
13,500.0	90.00	359.64	9,900.0	3,590.3	-299.1	3,599.5	0.00	0.00	0.00
13,600.0	90.00	359.64	9,900.0	3,690.3	-299.7	3,699.5	0.00	0.00	0.00
13,700.0	90.00	359.64	9,900.0	3,790.3	-300.4	3,799.4	0.00	0.00	0.00
13,800.0	90.00	359.64	9,900.0	3,890.3	-301.0	3,899.3	0.00	0.00	0.00
13,900.0	90.00	359.64	9,900.0	3,990.3	-301.6	3,999.3	0.00	0.00	0.00
14,000.0	90.00	359.64	9,900.0	4,090.3	-302.3	4,099.2	0.00	0.00	0.00
14,100.0	90.00	359.64	9,900.0	4,190.3	-302.9	4,199.2	0.00	0.00	0.00
14,200.0	90.00	359.64	9,900.0	4,290.3	-303.5	4,299.1	0.00	0.00	0.00
14,300.0	90.00	359.64	9,900.0	4,390.3	-304.2	4,399.0	0.00	0.00	0.00
14,400.0	90.00	359.64	9,900.0	4,490.3	-304.8	4,499.0	0.00	0.00	0.00
14,500.0	90.00	359.64	9,900.0	4,590.3	-305.5	4,598.9	0.00	0.00	0.00
14,600.0	90.00	359.64	9,900.0	4,690.3	-306.1	4,698.9	0.00	0.00	0.00
14,700.0	90.00	359.64	9,900.0	4,790.3	-306.7	4,798.8	0.00	0.00	0.00
14,800.0	90.00	359.64	9,900.0	4,890.3	-307.4	4,898.7	0.00	0.00	0.00
14,900.0	90.00	359.64	9,900.0	4,990.3	-308.0	4,998.7	0.00	0.00	0.00
15,000.0	90.00	359.64	9,900.0	5,090.3	-308.6	5,098.6	0.00	0.00	0.00
15,100.0	90.00	359.64	9,900.0	5,190.3	-309.3	5,198.6	0.00	0.00	0.00
15,200.0	90.00	359.64	9,900.0	5,290.3	-309.9	5,298.5	0.00	0.00	0.00
15,300.0	90.00	359.64	9,900.0	5,390.3	-310.5	5,398.5	0.00	0.00	0.00
15,400.0	90.00	359.64	9,900.0	5,490.3	-311.2	5,498.4	0.00	0.00	0.00
15,500.0	90.00	359.64	9,900.0	5,590.3	-311.8	5,598.3	0.00	0.00	0.00
15,600.0	90.00	359.64	9,900.0	5,690.3	-312.4	5,698.3	0.00	0.00	0.00
15,700.0	90.00	359.64	9,900.0	5,790.3	-313.1	5,798.2	0.00	0.00	0.00
15,800.0	90.00	359.64	9,900.0	5,890.3	-313.7	5,898.2	0.00	0.00	0.00
15,900.0	90.00	359.64	9,900.0	5,990.3	-314.4	5,998.1	0.00	0.00	0.00
16,000.0	90.00	359.64	9,900.0	6,090.3	-315.0	6,098.0	0.00	0.00	0.00
16,100.0	90.00	359.64	9,900.0	6,190.2	-315.6	6,198.0	0.00	0.00	0.00
16,200.0	90.00	359.64	9,900.0	6,290.2	-316.3	6,297.9	0.00	0.00	0.00
16,300.0	90.00	359.64	9,900.0	6,390.2	-316.9	6,397.9	0.00	0.00	0.00
16,400.0	90.00	359.64	9,900.0	6,490.2	-317.5	6,497.8	0.00	0.00	0.00
16,500.0	90.00	359.64	9,900.0	6,590.2	-318.2	6,597.7	0.00	0.00	0.00
16,600.0	90.00	359.64	9,900.0	6,690.2	-318.8	6,697.7	0.00	0.00	0.00
16,700.0	90.00	359.64	9,900.0	6,790.2	-319.4	6,797.6	0.00	0.00	0.00
16,800.0	90.00	359.64	9,900.0	6,890.2	-320.1	6,897.6	0.00	0.00	0.00
16,900.0	90.00	359.64	9,900.0	6,990.2	-320.7	6,997.5	0.00	0.00	0.00
17,000.0	90.00	359.64	9,900.0	7,090.2	-321.3	7,097.4	0.00	0.00	0.00
17,100.0	90.00	359.64	9,900.0	7,190.2	-322.0	7,197.4	0.00	0.00	0.00
17,200.0	90.00	359.64	9,900.0	7,290.2	-322.6	7,297.3	0.00	0.00	0.00
17,300.0	90.00	359.64	9,900.0	7,390.2	-323.3	7,397.3	0.00	0.00	0.00
17,400.0	90.00	359.64	9,900.0	7,490.2	-323.9	7,497.2	0.00	0.00	0.00
17,500.0	90.00	359.64	9,900.0	7,590.2	-324.5	7,597.1	0.00	0.00	0.00
17,600.0	90.00	359.64	9,900.0	7,690.2	-325.2	7,697.1	0.00	0.00	0.00
17,700.0	90.00	359.64	9,900.0	7,790.2	-325.8	7,797.0	0.00	0.00	0.00
17,800.0	90.00	359.64	9,900.0	7,890.2	-326.4	7,897.0	0.00	0.00	0.00
17,900.0	90.00	359.64	9,900.0	7,990.2	-327.1	7,996.9	0.00	0.00	0.00
17,910.6	90.00	359.64	9,900.0	8,000.8	-327.1	8,007.5	0.00	0.00	0.00
TD at 17910.8 - Anderson Fed Com 701H BHL									



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Anderson Fed Com 701H
Company:	Advance Energy Partners	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site:	Anderson Fed Com - Pad D	North Reference:	Grid
Well:	Anderson Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 701H		
Design:	Anderson Fed Com 701H - Prelim 1		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
Anderson Fed Com 701H	0.00	0.01	9,900.0	8,000.8	-327.1	527,935.53	751,239.51	32° 26' 58.276 N	103° 39' 10.332 W
- plan hits target center									
- Point									

Casing Points				
Measured Depth	Vertical Depth	Name		
(usft)	(usft)			
10,187.1	9,900.0	LP		
			Casing Diameter	Hole Diameter
			(")	(")
			5-1/2	5-1/2

Formations					
Measured Depth	Vertical Depth	Name		Dip	Dip Direction
(usft)	(usft)		Lithology	(°)	(°)
1,187.0	1,187.0	Rustler		0.00	
4,765.0	4,765.0	Base of Limestone		0.00	
8,424.4	8,412.0	Lower Brushy		0.00	
8,946.3	8,932.0	Avalon		0.00	
9,870.8	9,799.0	1st BS sand		0.00	

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		
(usft)	(usft)	+N/-S	+E/-W	Comment
(usft)	(usft)	(usft)	(usft)	
5,000.0	5,000.0	0.0	0.0	KOP - Start Build 1.00
5,621.7	5,620.6	-19.2	-26.4	Start 3077.0 hold at 5621.8 MD
8,698.8	8,685.3	-181.1	-249.0	Start Drop -1.00
9,320.5	9,306.0	-200.0	-275.0	Start 122.5 hold at 9320.5 MD
9,443.1	9,428.5	-200.0	-275.0	KOP #2 - Start Build 12.00
10,193.1	9,900.0	283.4	-278.1	LP - Start 7717.7 hold at 10193.1 MD
17,910.6	9,900.0	8,000.8	-327.1	TD at 17910.8



Advance Energy Partners

Hat Mesa

Anderson Fed Com - Pad D

Anderson Fed Com 701H

Anderson Fed Com 701H

Anderson Fed Com 701H - Prelim 1

Anticollision Report

23 August, 2021



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 701H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 701H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 701H - Prelim 1	Offset TVD Reference:	Offset Datum

Reference	Anderson Fed Com 701H - Prelim 1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 1,000.0usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.79 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	8/23/2021		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	17,910.6	Anderson Fed Com 701H - Prelim 1 (Ande	MWD+HRGM	OWSG MWD + HRGM

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Anderson Fed Com - Pad A						
Anderson 35 (Oxy) - Anderson 35 - Anderson 35	11,754.2	9,873.0	65.4	-12.6	0.839	Level 3, CC, ES, SF
Anderson Fed Com - Pad D						
Anderson Fed Com 501H - Anderson Fed Com 501H - A	5,000.0	5,000.0	33.0	6.9	1.264	Level 3, CC
Anderson Fed Com 501H - Anderson Fed Com 501H - A	9,525.0	9,525.1	50.6	1.1	1.023	Level 3, ES, SF
Anderson Fed Com 505H - Anderson Fed Com 505H - A	5,000.0	4,993.0	165.1	139.0	6.322	CC, ES
Anderson Fed Com 505H - Anderson Fed Com 505H - A	17,910.6	18,220.4	973.9	657.0	3.073	SF
Anderson Fed Com 551H - Anderson Fed Com 551H - A	5,000.0	5,000.0	66.0	39.9	2.528	CC, ES
Anderson Fed Com 551H - Anderson Fed Com 551H - A	9,575.0	9,575.3	121.8	72.2	2.457	SF
Anderson Fed Com 552H - Anderson Fed Com 552H - A	5,000.0	4,998.0	132.1	105.9	5.056	CC, ES, SF
Anderson Fed Com 601H - Anderson Fed Com 601H - A	5,000.0	4,999.0	99.0	72.9	3.792	CC, ES
Anderson Fed Com 601H - Anderson Fed Com 601H - A	5,100.0	5,099.0	99.8	73.4	3.782	SF

Offset Design: Anderson Fed Com - Pad A - Anderson 35 (Oxy) - Anderson 35 - Anderson 35													Offset Site Error: 0.0 usft		
Survey Program: 109-MWD+HRGM													Offset Well Error: 0.0 usft		
Reference				Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
10,800.0	9,900.0	9,846.4	9,844.9	32.2	33.4	61.70	1,843.8	-225.5	955.7	907.1	48.64	19.648			
10,900.0	9,900.0	9,848.0	9,846.4	33.4	33.5	62.88	1,843.8	-225.4	856.0	807.3	48.74	17.561			
11,000.0	9,900.0	9,849.8	9,848.2	34.7	33.5	64.21	1,843.9	-225.2	756.4	707.5	48.88	15.475			
11,100.0	9,900.0	9,851.7	9,850.1	36.0	33.5	65.70	1,844.0	-225.1	656.9	607.8	49.06	13.388			
11,200.0	9,900.0	9,859.0	9,857.4	37.4	33.5	71.62	1,844.3	-224.4	557.6	508.1	49.44	11.277			
11,300.0	9,900.0	9,859.0	9,857.4	38.8	33.5	71.62	1,844.3	-224.4	458.4	408.6	49.82	9.201			
11,400.0	9,900.0	9,859.0	9,857.4	40.3	33.5	71.62	1,844.3	-224.4	359.8	309.3	50.47	7.129			
11,500.0	9,900.0	9,862.5	9,860.9	41.9	33.5	74.58	1,844.4	-224.1	262.2	210.2	51.96	5.046			
11,600.0	9,900.0	9,866.4	9,864.7	43.5	33.5	77.90	1,844.6	-223.7	167.3	111.5	55.82	2.997			
11,700.0	9,900.0	9,870.6	9,868.9	45.1	33.5	81.53	1,844.8	-223.3	84.9	15.5	69.36	1.224	Level 3		
11,754.2	9,900.0	9,873.0	9,871.3	46.0	33.6	83.64	1,844.9	-223.0	65.4	-12.6	77.99	0.839	Level 3, CC, ES, SF		
11,800.0	9,900.0	9,875.1	9,873.4	46.8	33.6	85.50	1,845.0	-222.8	79.8	11.4	68.47	1.166	Level 3		
11,900.0	9,900.0	9,880.0	9,878.3	48.5	33.6	89.81	1,845.3	-222.2	159.7	106.8	52.84	3.022			
12,000.0	9,900.0	9,885.5	9,883.7	50.2	33.6	94.44	1,845.6	-221.5	254.1	204.7	49.42	5.142			
12,100.0	9,900.0	9,891.4	9,889.6	51.9	33.6	99.34	1,845.9	-220.8	351.5	303.1	48.46	7.254			
12,200.0	9,900.0	9,897.2	9,895.3	53.7	33.6	103.86	1,846.2	-220.1	450.0	401.9	48.13	9.349			

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 701H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 701H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 701H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad A - Anderson 35 (Oxy) - Anderson 35 - Anderson 35													Offset Site Error:	0.0 usft
Survey Program: 109-MWD+HRGM													Offset 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		
12,300.0	9,900.0	9,903.0	9,901.0	55.4	33.7	108.17	1,846.6	-219.3	549.0	501.0	48.02	11.433		
12,400.0	9,900.0	9,908.9	9,906.9	57.2	33.7	112.21	1,846.9	-218.6	648.2	600.2	47.99	13.507		
12,500.0	9,900.0	9,914.8	9,912.7	59.0	33.7	115.98	1,847.2	-217.8	747.6	699.6	48.00	15.574		
12,600.0	9,900.0	9,920.7	9,918.6	60.9	33.7	119.47	1,847.6	-217.1	847.1	799.1	48.04	17.633		
12,700.0	9,900.0	9,926.7	9,924.5	62.7	33.8	122.67	1,847.9	-216.3	946.7	898.6	48.09	19.685		

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



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 701H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 701H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 701H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 501H - Anderson Fed Com 501H - Anderson Fed Com 501H - Prelim 1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	0.0	0.0	0.0	0.0	89.00	0.6	33.0	33.0				
100.0	100.0	100.0	100.0	0.5	0.5	89.00	0.6	33.0	33.0	32.0	1.06	31.140	
200.0	200.0	200.0	200.0	1.7	1.7	89.00	0.6	33.0	33.0	29.6	3.42	9.644	
300.0	300.0	300.0	300.0	2.4	2.4	89.00	0.6	33.0	33.0	28.2	4.82	6.846	
400.0	400.0	400.0	400.0	3.0	3.0	89.00	0.6	33.0	33.0	27.1	5.91	5.589	
423.5	423.5	423.5	423.5	3.1	3.1	89.00	0.6	33.0	33.0	26.9	6.12	5.391	
500.0	500.0	500.0	500.0	3.4	3.4	89.00	0.6	33.0	33.0	26.2	6.83	4.834	
524.4	524.4	524.4	524.4	3.5	3.5	89.00	0.6	33.0	33.0	26.0	7.03	4.697	
600.0	600.0	600.0	600.0	3.8	3.8	89.00	0.6	33.0	33.0	25.4	7.65	4.317	
633.3	633.3	633.3	633.3	3.9	3.9	89.00	0.6	33.0	33.0	25.1	7.90	4.181	
700.0	700.0	700.0	700.0	4.2	4.2	89.00	0.6	33.0	33.0	24.6	8.39	3.934	
800.0	800.0	800.0	800.0	4.5	4.5	89.00	0.6	33.0	33.0	23.9	9.08	3.635	
900.0	900.0	900.0	900.0	4.9	4.9	89.00	0.6	33.0	33.0	23.3	9.73	3.393	
1,000.0	1,000.0	1,000.0	1,000.0	5.2	5.2	89.00	0.6	33.0	33.0	22.7	10.34	3.193	
1,100.0	1,100.0	1,100.0	1,100.0	5.5	5.5	89.00	0.6	33.0	33.0	22.1	10.92	3.023	
1,200.0	1,200.0	1,200.0	1,200.0	5.7	5.7	89.00	0.6	33.0	33.0	21.5	11.48	2.876	
1,300.0	1,300.0	1,300.0	1,300.0	6.0	6.0	89.00	0.6	33.0	33.0	21.0	12.01	2.748	
1,400.0	1,400.0	1,400.0	1,400.0	6.3	6.3	89.00	0.6	33.0	33.0	20.5	12.53	2.635	
1,500.0	1,500.0	1,500.0	1,500.0	6.5	6.5	89.00	0.6	33.0	33.0	20.0	13.03	2.534	
1,600.0	1,600.0	1,600.0	1,600.0	6.8	6.8	89.00	0.6	33.0	33.0	19.5	13.52	2.443	
1,700.0	1,700.0	1,700.0	1,700.0	7.0	7.0	89.00	0.6	33.0	33.0	19.0	13.99	2.360	
1,800.0	1,800.0	1,800.0	1,800.0	7.2	7.2	89.00	0.6	33.0	33.0	18.6	14.45	2.285	
1,900.0	1,900.0	1,900.0	1,900.0	7.4	7.4	89.00	0.6	33.0	33.0	18.1	14.90	2.216	
2,000.0	2,000.0	2,000.0	2,000.0	7.7	7.7	89.00	0.6	33.0	33.0	17.7	15.34	2.152	
2,100.0	2,100.0	2,100.0	2,100.0	7.9	7.9	89.00	0.6	33.0	33.0	17.2	15.77	2.094	
2,200.0	2,200.0	2,200.0	2,200.0	8.1	8.1	89.00	0.6	33.0	33.0	16.8	16.19	2.039	
2,300.0	2,300.0	2,300.0	2,300.0	8.3	8.3	89.00	0.6	33.0	33.0	16.4	16.61	1.988	
2,400.0	2,400.0	2,400.0	2,400.0	8.5	8.5	89.00	0.6	33.0	33.0	16.0	17.02	1.940	
2,500.0	2,500.0	2,500.0	2,500.0	8.7	8.7	89.00	0.6	33.0	33.0	15.6	17.42	1.896	
2,600.0	2,600.0	2,600.0	2,600.0	8.9	8.9	89.00	0.6	33.0	33.0	15.2	17.81	1.854	
2,700.0	2,700.0	2,700.0	2,700.0	9.1	9.1	89.00	0.6	33.0	33.0	14.8	18.20	1.814	
2,800.0	2,800.0	2,800.0	2,800.0	9.3	9.3	89.00	0.6	33.0	33.0	14.4	18.59	1.776	
2,900.0	2,900.0	2,900.0	2,900.0	9.5	9.5	89.00	0.6	33.0	33.0	14.1	18.96	1.741	
3,000.0	3,000.0	3,000.0	3,000.0	9.7	9.7	89.00	0.6	33.0	33.0	13.7	19.34	1.707	
3,100.0	3,100.0	3,100.0	3,100.0	9.9	9.9	89.00	0.6	33.0	33.0	13.3	19.71	1.675	
3,200.0	3,200.0	3,200.0	3,200.0	10.0	10.0	89.00	0.6	33.0	33.0	12.9	20.07	1.645	
3,300.0	3,300.0	3,300.0	3,300.0	10.2	10.2	89.00	0.6	33.0	33.0	12.6	20.44	1.616	
3,400.0	3,400.0	3,400.0	3,400.0	10.4	10.4	89.00	0.6	33.0	33.0	12.2	20.79	1.588	
3,500.0	3,500.0	3,500.0	3,500.0	10.6	10.6	89.00	0.6	33.0	33.0	11.9	21.15	1.561	
3,600.0	3,600.0	3,600.0	3,600.0	10.7	10.7	89.00	0.6	33.0	33.0	11.5	21.50	1.536	
3,700.0	3,700.0	3,700.0	3,700.0	10.9	10.9	89.00	0.6	33.0	33.0	11.2	21.85	1.511	
3,800.0	3,800.0	3,800.0	3,800.0	11.1	11.1	89.00	0.6	33.0	33.0	10.8	22.19	1.488 Level 3	
3,900.0	3,900.0	3,900.0	3,900.0	11.3	11.3	89.00	0.6	33.0	33.0	10.5	22.53	1.465 Level 3	
4,000.0	4,000.0	4,000.0	4,000.0	11.4	11.4	89.00	0.6	33.0	33.0	10.1	22.87	1.444 Level 3	
4,100.0	4,100.0	4,100.0	4,100.0	11.6	11.6	89.00	0.6	33.0	33.0	9.8	23.21	1.423 Level 3	
4,200.0	4,200.0	4,200.0	4,200.0	11.8	11.8	89.00	0.6	33.0	33.0	9.5	23.54	1.403 Level 3	
4,300.0	4,300.0	4,300.0	4,300.0	11.9	11.9	89.00	0.6	33.0	33.0	9.1	23.87	1.383 Level 3	
4,400.0	4,400.0	4,400.0	4,400.0	12.1	12.1	89.00	0.6	33.0	33.0	8.8	24.20	1.364 Level 3	
4,500.0	4,500.0	4,500.0	4,500.0	12.3	12.3	89.00	0.6	33.0	33.0	8.5	24.53	1.346 Level 3	
4,600.0	4,600.0	4,600.0	4,600.0	12.4	12.4	89.00	0.6	33.0	33.0	8.2	24.85	1.329 Level 3	
4,700.0	4,700.0	4,700.0	4,700.0	12.6	12.6	89.00	0.6	33.0	33.0	7.8	25.17	1.312 Level 3	
4,800.0	4,800.0	4,800.0	4,800.0	12.7	12.7	89.00	0.6	33.0	33.0	7.5	25.49	1.295 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 701H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 701H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 701H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 501H - Anderson Fed Com 501H - Anderson Fed Com 501H - Prelim 1													Offset Site Error: 0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.0	4,900.0	4,900.0	4,900.0	12.9	12.9	89.00	0.6	33.0	33.0	7.2	25.81	1.279	Level 3
5,000.0	5,000.0	5,000.0	5,000.0	13.1	13.1	89.00	0.6	33.0	33.0	6.9	26.12	1.264	Level 3, CC
5,100.0	5,100.0	5,100.0	5,100.0	13.2	13.2	-145.82	0.6	33.0	33.7	7.4	26.38	1.279	Level 3
5,200.0	5,200.0	5,200.0	5,200.0	13.3	13.4	-148.15	0.6	33.0	35.9	9.3	26.62	1.350	Level 3
5,300.0	5,299.9	5,300.5	5,300.5	13.4	13.5	-150.84	0.0	32.3	38.9	12.1	26.82	1.452	Level 3
5,400.0	5,399.7	5,401.0	5,401.0	13.5	13.6	-153.11	-1.5	30.2	42.0	15.0	27.01	1.556	
5,500.0	5,499.4	5,501.6	5,501.5	13.6	13.7	-155.04	-4.2	26.7	45.2	17.9	27.24	1.658	
5,513.2	5,512.5	5,514.9	5,514.7	13.6	13.7	-155.27	-4.6	26.1	45.6	18.3	27.26	1.672	
5,600.0	5,599.0	5,602.4	5,602.0	13.8	13.8	-156.38	-7.9	21.7	47.8	20.3	27.46	1.739	
5,700.0	5,698.6	5,702.7	5,702.1	13.9	13.9	-156.89	-12.5	15.5	49.0	21.3	27.70	1.768	
5,800.0	5,798.2	5,802.7	5,801.8	14.2	14.0	-157.29	-17.2	9.3	50.0	22.0	28.03	1.785	
5,900.0	5,897.8	5,902.7	5,901.5	14.4	14.2	-157.67	-21.8	3.0	51.1	22.7	28.40	1.799	
6,000.0	5,997.4	6,002.7	6,001.1	14.6	14.4	-158.03	-26.5	-3.3	52.2	23.3	28.81	1.810	
6,100.0	6,097.0	6,102.7	6,100.8	14.9	14.6	-158.38	-31.2	-9.6	53.2	24.0	29.25	1.820	
6,200.0	6,196.6	6,202.7	6,200.5	15.1	14.8	-158.71	-35.9	-15.9	54.3	24.6	29.71	1.827	
6,300.0	6,296.2	6,302.7	6,300.2	15.4	15.1	-159.04	-40.6	-22.2	55.3	25.1	30.21	1.832	
6,400.0	6,395.8	6,402.7	6,399.9	15.7	15.3	-159.35	-45.3	-28.5	56.4	25.7	30.73	1.836	
6,500.0	6,495.4	6,502.7	6,499.6	16.0	15.6	-159.64	-50.0	-34.7	57.5	26.2	31.28	1.837	
6,600.0	6,595.0	6,602.7	6,599.3	16.4	15.9	-159.93	-54.7	-41.0	58.5	26.7	31.86	1.838	
6,700.0	6,694.6	6,702.6	6,698.9	16.7	16.2	-160.21	-59.4	-47.3	59.6	27.2	32.46	1.837	
6,800.0	6,794.2	6,802.6	6,798.6	17.1	16.5	-160.48	-64.1	-53.6	60.7	27.6	33.08	1.835	
6,900.0	6,893.8	6,902.6	6,898.3	17.4	16.8	-160.73	-68.8	-59.9	61.8	28.0	33.73	1.831	
7,000.0	6,993.4	7,002.6	6,998.0	17.8	17.1	-160.98	-73.4	-66.2	62.8	28.5	34.39	1.827	
7,100.0	7,093.0	7,102.6	7,097.7	18.2	17.5	-161.22	-78.1	-72.5	63.9	28.8	35.08	1.822	
7,200.0	7,192.6	7,202.6	7,197.4	18.5	17.8	-161.46	-82.8	-78.8	65.0	29.2	35.78	1.817	
7,300.0	7,292.2	7,302.6	7,297.1	18.9	18.2	-161.68	-87.5	-85.0	66.1	29.6	36.50	1.810	
7,400.0	7,391.8	7,402.6	7,396.7	19.3	18.6	-161.90	-92.2	-91.3	67.2	29.9	37.24	1.803	
7,500.0	7,491.4	7,502.6	7,496.4	19.7	18.9	-162.11	-96.9	-97.6	68.2	30.2	37.99	1.796	
7,600.0	7,591.0	7,602.6	7,596.1	20.2	19.3	-162.31	-101.6	-103.9	69.3	30.6	38.76	1.788	
7,700.0	7,690.5	7,702.6	7,695.8	20.6	19.7	-162.51	-106.3	-110.2	70.4	30.9	39.54	1.780	
7,800.0	7,790.1	7,802.6	7,795.5	21.0	20.1	-162.71	-111.0	-116.5	71.5	31.1	40.33	1.772	
7,900.0	7,889.7	7,902.6	7,895.2	21.4	20.5	-162.89	-115.7	-122.8	72.6	31.4	41.14	1.764	
8,000.0	7,989.3	8,002.6	7,994.9	21.9	20.9	-163.07	-120.4	-129.0	73.6	31.7	41.96	1.755	
8,100.0	8,088.9	8,102.6	8,094.5	22.3	21.3	-163.25	-125.1	-135.3	74.7	31.9	42.79	1.746	
8,200.0	8,188.5	8,202.6	8,194.2	22.7	21.7	-163.42	-129.7	-141.6	75.8	32.2	43.63	1.738	
8,300.0	8,288.1	8,302.5	8,293.9	23.2	22.1	-163.58	-134.4	-147.9	76.9	32.4	44.48	1.729	
8,400.0	8,387.7	8,402.5	8,393.6	23.7	22.6	-163.75	-139.1	-154.2	78.0	32.7	45.34	1.720	
8,500.0	8,487.3	8,502.5	8,493.3	24.1	23.0	-163.90	-143.8	-160.5	79.1	32.9	46.21	1.711	
8,600.0	8,586.9	8,602.5	8,593.0	24.6	23.4	-164.06	-148.5	-166.8	80.2	33.1	47.09	1.703	
8,700.0	8,686.5	8,702.5	8,692.7	25.0	23.9	-164.20	-153.2	-173.0	81.3	33.3	47.97	1.694	
8,801.4	8,787.5	8,803.9	8,793.7	25.5	24.3	-164.35	-158.0	-179.4	82.4	33.5	48.88	1.685	
8,900.0	8,885.8	8,902.5	8,892.0	26.0	24.8	-164.33	-162.6	-185.6	82.6	32.9	49.73	1.661	
9,000.0	8,985.6	9,002.5	8,991.7	26.4	25.2	-163.98	-167.3	-191.9	81.2	30.7	50.54	1.607	
9,100.0	9,085.5	9,102.4	9,091.3	26.8	25.7	-163.25	-172.0	-198.2	78.1	26.9	51.27	1.524	
9,200.0	9,185.5	9,202.3	9,190.9	27.2	26.1	-162.04	-176.6	-204.5	73.4	21.5	51.87	1.415	Level 3
9,300.0	9,285.4	9,302.1	9,290.4	27.5	26.6	-160.17	-181.3	-210.7	67.1	14.8	52.27	1.283	Level 3
9,314.6	9,300.0	9,316.6	9,304.8	27.5	26.6	74.15	-182.0	-211.6	66.0	13.7	52.29	1.263	Level 3
9,400.0	9,385.4	9,401.8	9,389.8	27.5	27.0	76.43	-186.0	-217.0	59.8	7.6	52.26	1.145	Level 3
9,437.1	9,422.5	9,438.8	9,426.6	27.5	27.2	77.58	-187.7	-219.3	57.2	5.0	52.19	1.095	Level 3
9,450.0	9,435.4	9,451.6	9,439.4	27.5	27.2	78.66	-188.3	-220.1	56.2	4.1	52.11	1.078	Level 3
9,475.0	9,460.4	9,476.3	9,464.1	27.5	27.3	81.12	-189.5	-221.7	54.2	2.5	51.70	1.049	Level 3
9,500.0	9,485.3	9,500.8	9,488.5	27.4	27.4	85.06	-190.6	-223.1	52.3	1.4	50.87	1.027	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 701H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 701H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 701H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 501H - Anderson Fed Com 501H - Anderson Fed Com 501H - Prelim 1													Offset Site Error: 0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.0 usft
Reference	Offset	Semi Major Axis		Highside		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)		
9,525.0	9,510.0	9,525.1	9,512.7	27.4	27.6	90.55	-191.6	-224.5	50.6	1.1	49.50	1.023 Level 3, ES, SF	
9,550.0	9,534.4	9,549.1	9,536.7	27.3	27.7	97.51	-192.5	-225.7	49.7	2.3	47.48	1.048 Level 3	
9,557.8	9,542.0	9,556.6	9,544.1	27.3	27.7	99.94	-192.8	-226.1	49.7	3.0	46.71	1.063 Level 3	
9,575.0	9,558.5	9,572.8	9,560.4	27.3	27.8	105.61	-193.4	-226.9	50.0	5.2	44.85	1.115 Level 3	
9,600.0	9,582.3	9,586.2	9,583.7	27.2	27.9	114.27	-194.2	-228.0	52.0	10.0	41.97	1.238 Level 3	
9,625.0	9,605.6	9,619.1	9,606.6	27.1	28.0	122.77	-194.9	-229.0	55.9	16.5	39.46	1.418 Level 3	
9,650.0	9,628.5	9,641.6	9,629.0	27.1	28.0	130.53	-195.6	-229.8	62.1	24.3	37.80	1.642	
9,675.0	9,650.7	9,663.5	9,650.9	27.0	28.1	137.22	-196.2	-230.6	70.3	33.2	37.07	1.896	
9,700.0	9,672.4	9,684.8	9,672.2	26.9	28.2	142.78	-196.7	-231.4	80.4	43.4	37.04	2.172	
9,725.0	9,693.3	9,705.4	9,692.8	26.9	28.3	147.28	-197.2	-232.0	92.3	54.9	37.41	2.468	
9,750.0	9,713.5	9,725.4	9,712.8	26.8	28.4	150.88	-197.6	-232.5	105.7	67.8	37.93	2.786	
9,775.0	9,732.9	9,744.6	9,732.0	26.8	28.5	153.74	-198.0	-233.0	120.4	82.0	38.49	3.129	
9,800.0	9,751.5	9,763.0	9,750.4	26.7	28.5	155.99	-198.3	-233.4	136.4	97.4	39.03	3.496	
9,825.0	9,769.2	9,780.6	9,767.9	26.7	28.6	157.75	-198.5	-233.8	153.5	114.0	39.51	3.886	
9,850.0	9,785.9	9,797.2	9,784.5	26.7	28.7	159.08	-198.7	-234.1	171.6	131.7	39.93	4.298	
9,875.0	9,801.6	9,812.9	9,800.2	26.6	28.7	160.06	-198.9	-234.3	190.7	150.4	40.30	4.733	
9,900.0	9,816.3	9,827.6	9,814.9	26.6	28.7	160.71	-199.0	-234.5	210.6	170.0	40.61	5.187	
9,925.0	9,829.9	9,841.2	9,828.6	26.6	28.8	161.07	-199.2	-234.6	231.3	190.4	40.88	5.659	
9,950.0	9,842.3	9,853.8	9,841.1	26.6	28.8	161.13	-199.2	-234.7	252.7	211.6	41.11	6.148	
9,975.0	9,853.7	9,865.3	9,852.6	26.6	28.8	160.88	-199.3	-234.8	274.8	233.5	41.31	6.652	
10,000.0	9,863.8	9,875.6	9,862.9	26.6	28.9	160.25	-199.4	-234.9	297.5	256.0	41.48	7.170	
10,025.0	9,872.8	9,884.7	9,872.0	26.7	28.9	159.15	-199.4	-234.9	320.6	279.0	41.64	7.701	
10,050.0	9,880.5	9,892.5	9,879.9	26.7	28.9	157.41	-199.4	-235.0	344.3	302.5	41.77	8.241	
10,075.0	9,886.9	9,899.1	9,886.5	26.8	28.9	154.71	-199.4	-235.0	368.3	326.4	41.89	8.791	
10,100.0	9,892.1	9,904.5	9,891.8	26.9	29.0	150.44	-199.4	-235.0	392.6	350.6	41.99	9.349	
10,125.0	9,896.0	9,908.5	9,895.8	26.9	29.0	143.30	-199.4	-235.0	417.2	375.1	42.08	9.913	
10,150.0	9,898.6	9,911.2	9,898.5	27.0	29.0	130.43	-199.4	-235.0	441.9	399.7	42.17	10.480	
10,175.0	9,899.8	9,912.5	9,899.8	27.1	29.0	106.38	-199.4	-235.0	466.8	424.5	42.24	11.050	
10,187.1	9,900.0	9,912.7	9,900.0	27.2	29.0	90.00	-199.4	-235.0	478.8	436.5	42.28	11.325	
10,200.0	9,900.0	9,912.7	9,900.0	27.3	29.0	90.00	-199.4	-235.0	491.7	449.4	42.32	11.619	
10,300.0	9,900.0	10,874.2	10,475.0	27.8	29.5	-179.90	390.3	-279.8	575.0	518.0	57.03	10.082	
10,400.0	9,900.0	10,974.3	10,475.0	28.5	30.2	-179.74	490.3	-282.0	575.0	517.4	57.64	9.976	
10,500.0	9,900.0	11,074.3	10,475.0	29.3	31.0	-179.74	590.3	-282.6	575.0	516.7	58.35	9.854	
10,600.0	9,900.0	11,174.3	10,475.0	30.1	31.8	-179.74	690.3	-283.2	575.0	515.9	59.14	9.723	
10,700.0	9,900.0	11,274.3	10,475.0	31.1	32.8	-179.75	790.3	-283.8	575.0	515.0	60.00	9.584	
10,800.0	9,900.0	11,374.3	10,475.0	32.2	33.8	-179.75	890.3	-284.4	575.0	514.1	60.92	9.439	
10,900.0	9,900.0	11,474.3	10,475.0	33.4	34.9	-179.75	990.3	-285.0	575.0	513.1	61.91	9.288	
11,000.0	9,900.0	11,574.3	10,475.0	34.7	36.1	-179.76	1,090.3	-285.6	575.0	512.0	62.96	9.133	
11,100.0	9,900.0	11,674.3	10,475.0	36.0	37.4	-179.76	1,190.3	-286.2	575.0	510.9	64.07	8.975	
11,200.0	9,900.0	11,774.3	10,475.0	37.4	38.7	-179.77	1,290.3	-286.8	575.0	509.8	65.23	8.815	
11,300.0	9,900.0	11,874.3	10,475.0	38.8	40.1	-179.77	1,390.3	-287.4	575.0	508.6	66.44	8.654	
11,400.0	9,900.0	11,974.3	10,475.0	40.3	41.6	-179.77	1,490.3	-288.0	575.0	507.3	67.70	8.493	
11,500.0	9,900.0	12,074.3	10,475.0	41.9	43.1	-179.78	1,590.3	-288.6	575.0	506.0	69.01	8.332	
11,600.0	9,900.0	12,174.3	10,475.0	43.5	44.6	-179.78	1,690.3	-289.2	575.0	504.6	70.37	8.171	
11,700.0	9,900.0	12,274.3	10,475.0	45.1	46.2	-179.78	1,790.3	-289.8	575.0	503.2	71.76	8.013	
11,800.0	9,900.0	12,374.3	10,475.0	46.8	47.8	-179.79	1,890.3	-290.4	575.0	501.8	73.20	7.856	
11,900.0	9,900.0	12,474.3	10,475.0	48.5	49.5	-179.79	1,990.3	-291.0	575.0	500.3	74.67	7.701	
12,000.0	9,900.0	12,574.3	10,475.0	50.2	51.2	-179.79	2,090.3	-291.6	575.0	498.8	76.17	7.549	
12,100.0	9,900.0	12,674.3	10,475.0	51.9	52.9	-179.80	2,190.3	-292.2	575.0	497.3	77.71	7.399	
12,200.0	9,900.0	12,774.3	10,475.0	53.7	54.6	-179.80	2,290.3	-292.8	575.0	495.7	79.28	7.253	
12,300.0	9,900.0	12,874.3	10,475.0	55.4	56.4	-179.80	2,390.3	-293.4	575.0	494.1	80.88	7.110	
12,400.0	9,900.0	12,974.3	10,475.0	57.2	58.1	-179.81	2,490.3	-294.0	575.0	492.5	82.50	6.970	

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Anticollision Report

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Reference Wellbore	Anderson Fed Com 701H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 701H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 501H - Anderson Fed Com 501H - Anderson Fed Com 501H - Prelim 1													Offset Site Error: 0.0 usft		
Survey Program: 0-MWD+HRGM				Offset		Semi Major Axis				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		
12,500.0	9,900.0	13,074.3	10,475.0	59.0	59.9	-179.81	2,590.3	-294.6	575.0	490.9	84.15	6.833			
12,600.0	9,900.0	13,174.3	10,475.0	60.9	61.7	-179.81	2,690.3	-295.2	575.0	489.2	85.83	6.700			
12,700.0	9,900.0	13,274.3	10,475.0	62.7	63.5	-179.82	2,790.3	-295.8	575.0	487.5	87.52	6.570			
12,800.0	9,900.0	13,374.3	10,475.0	64.5	65.3	-179.82	2,890.3	-296.4	575.0	485.8	89.24	6.443			
12,900.0	9,900.0	13,474.3	10,475.0	66.4	67.2	-179.82	2,990.3	-297.0	575.0	484.0	90.98	6.320			
13,000.0	9,900.0	13,574.3	10,475.0	68.3	69.0	-179.83	3,090.3	-297.6	575.0	482.3	92.74	6.200			
13,100.0	9,900.0	13,674.3	10,475.0	70.1	70.9	-179.83	3,190.3	-298.2	575.0	480.5	94.52	6.084			
13,200.0	9,900.0	13,774.3	10,475.0	72.0	72.7	-179.84	3,290.3	-298.8	575.0	478.7	96.31	5.970			
13,300.0	9,900.0	13,874.3	10,475.0	73.9	74.6	-179.84	3,390.3	-299.4	575.0	476.9	98.12	5.860			
13,400.0	9,900.0	13,974.3	10,475.0	75.8	76.5	-179.84	3,490.3	-300.0	575.0	475.1	99.95	5.753			
13,500.0	9,900.0	14,074.3	10,475.0	77.7	78.4	-179.85	3,590.3	-300.6	575.0	473.2	101.79	5.649			
13,600.0	9,900.0	14,174.3	10,475.0	79.6	80.3	-179.85	3,690.3	-301.2	575.0	471.4	103.64	5.548			
13,700.0	9,900.0	14,274.3	10,475.0	81.5	82.2	-179.85	3,790.3	-301.8	575.0	469.5	105.51	5.450			
13,800.0	9,900.0	14,374.3	10,475.0	83.4	84.1	-179.86	3,890.3	-302.4	575.0	467.6	107.38	5.355			
13,900.0	9,900.0	14,474.3	10,475.0	85.4	86.0	-179.86	3,990.3	-303.0	575.0	465.7	109.27	5.262			
14,000.0	9,900.0	14,574.3	10,475.0	87.3	87.9	-179.86	4,090.3	-303.6	575.0	463.8	111.17	5.172			
14,100.0	9,900.0	14,674.3	10,475.0	89.2	89.8	-179.87	4,190.3	-304.2	575.0	461.9	113.09	5.085			
14,200.0	9,900.0	14,774.3	10,475.0	91.1	91.7	-179.87	4,290.3	-304.8	575.0	460.0	115.01	5.000			
14,300.0	9,900.0	14,874.3	10,475.0	93.1	93.7	-179.87	4,390.3	-305.4	575.0	458.1	116.94	4.917			
14,400.0	9,900.0	14,974.3	10,475.0	95.0	95.6	-179.88	4,490.3	-306.1	575.0	456.1	118.88	4.837			
14,500.0	9,900.0	15,074.3	10,475.0	97.0	97.5	-179.88	4,590.3	-306.7	575.0	454.2	120.83	4.759			
14,600.0	9,900.0	15,174.3	10,475.0	98.9	99.5	-179.88	4,690.3	-307.3	575.0	452.2	122.79	4.683			
14,700.0	9,900.0	15,274.3	10,475.0	100.9	101.4	-179.89	4,790.3	-307.9	575.0	450.3	124.75	4.609			
14,800.0	9,900.0	15,374.3	10,475.0	102.8	103.4	-179.89	4,890.3	-308.5	575.0	448.3	126.72	4.538			
14,900.0	9,900.0	15,474.3	10,475.0	104.8	105.3	-179.89	4,990.3	-309.1	575.0	446.3	128.70	4.468			
15,000.0	9,900.0	15,574.3	10,475.0	106.7	107.2	-179.90	5,090.3	-309.7	575.0	444.3	130.69	4.400			
15,100.0	9,900.0	15,674.3	10,475.0	108.7	109.2	-179.90	5,190.3	-310.3	575.0	442.3	132.68	4.334			
15,200.0	9,900.0	15,774.3	10,475.0	110.7	111.2	-179.91	5,290.3	-310.9	575.0	440.3	134.68	4.269			
15,300.0	9,900.0	15,874.3	10,475.0	112.6	113.1	-179.91	5,390.3	-311.5	575.0	438.3	136.68	4.207			
15,400.0	9,900.0	15,974.3	10,475.0	114.6	115.1	-179.91	5,490.3	-312.1	575.0	436.3	138.69	4.146			
15,500.0	9,900.0	16,074.3	10,475.0	116.6	117.0	-179.92	5,590.3	-312.7	575.0	434.3	140.71	4.086			
15,600.0	9,900.0	16,174.3	10,475.0	118.5	119.0	-179.92	5,690.3	-313.3	575.0	432.3	142.73	4.029			
15,700.0	9,900.0	16,274.3	10,475.0	120.5	121.0	-179.92	5,790.3	-313.9	575.0	430.2	144.76	3.972			
15,800.0	9,900.0	16,374.3	10,475.0	122.5	122.9	-179.93	5,890.3	-314.5	575.0	428.2	146.79	3.917			
15,900.0	9,900.0	16,474.3	10,475.0	124.4	124.9	-179.93	5,990.2	-315.1	575.0	426.2	148.82	3.864			
16,000.0	9,900.0	16,574.3	10,475.0	126.4	126.9	-179.93	6,090.2	-315.7	575.0	424.1	150.86	3.811			
16,100.0	9,900.0	16,674.3	10,475.0	128.4	128.8	-179.94	6,190.2	-316.3	575.0	422.1	152.90	3.761			
16,200.0	9,900.0	16,774.3	10,475.0	130.4	130.8	-179.94	6,290.2	-316.9	575.0	420.0	154.95	3.711			
16,300.0	9,900.0	16,874.3	10,475.0	132.3	132.8	-179.94	6,390.2	-317.5	575.0	418.0	157.00	3.662			
16,400.0	9,900.0	16,974.3	10,475.0	134.3	134.8	-179.95	6,490.2	-318.1	575.0	415.9	159.06	3.615			
16,500.0	9,900.0	17,074.3	10,475.0	136.3	136.7	-179.95	6,590.2	-318.7	575.0	413.9	161.12	3.569			
16,600.0	9,900.0	17,174.3	10,475.0	138.3	138.7	-179.95	6,690.2	-319.3	575.0	411.8	163.18	3.524			
16,700.0	9,900.0	17,274.3	10,475.0	140.3	140.7	-179.96	6,790.2	-319.9	575.0	409.8	165.25	3.480			
16,800.0	9,900.0	17,374.3	10,475.0	142.3	142.7	-179.96	6,890.2	-320.5	575.0	407.7	167.31	3.437			
16,900.0	9,900.0	17,474.3	10,475.0	144.2	144.6	-179.96	6,990.2	-321.1	575.0	405.6	169.39	3.395			
17,000.0	9,900.0	17,574.3	10,475.0	146.2	146.6	-179.97	7,090.2	-321.7	575.0	403.5	171.46	3.354			
17,100.0	9,900.0	17,674.3	10,475.0	148.2	148.6	-179.97	7,190.2	-322.3	575.0	401.5	173.54	3.313			
17,200.0	9,900.0	17,774.3	10,475.0	150.2	150.6	-179.98	7,290.2	-322.9	575.0	399.4	175.62	3.274			
17,300.0	9,900.0	17,874.3	10,475.0	152.2	152.6	-179.98	7,390.2	-323.5	575.0	397.3	177.70	3.236			
17,400.0	9,900.0	17,974.3	10,475.0	154.2	154.6	-179.98	7,490.2	-324.1	575.0	395.2	179.79	3.198			
17,500.0	9,900.0	18,074.3	10,475.0	156.2	156.5	-179.99	7,590.2	-324.7	575.0	393.1	181.88	3.161			
17,600.0	9,900.0	18,174.3	10,475.0	158.1	158.5	-179.99	7,690.2	-325.3	575.0	391.0	183.97	3.126			

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 701H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 701H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 701H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 501H - Anderson Fed Com 501H - Anderson Fed Com 501H - Prelim 1													Offset Site Error: 0.0 usft	
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.0 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		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)				
17,700.0	9,900.0	18,274.3	10,475.0	160.1	160.5	-179.99	7,790.2	-325.9	575.0	388.9	186.06	3.090		
17,800.0	9,900.0	18,374.3	10,475.0	162.1	162.5	-180.00	7,890.2	-326.5	575.0	386.8	188.16	3.056		
17,900.0	9,900.0	18,474.3	10,475.0	164.1	164.5	-180.00	7,990.2	-327.1	575.0	384.7	190.25	3.022		
17,910.6	9,900.0	18,484.9	10,475.0	164.3	164.7	180.00	8,000.8	-327.1	575.0	384.5	190.48	3.019		



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 701H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 701H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 701H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 505H - Anderson Fed Com 505H - Anderson Fed Com 505H - Prelim 1											Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM											Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Rule Assigned:	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
0.0	0.0	0.0	0.0	0.0	0.0	89.26	2.1	165.1	165.2			
100.0	100.0	93.0	93.0	0.5	0.5	89.26	2.1	165.1	165.1	164.1	1.02	161.339
200.0	200.0	193.0	193.0	1.7	1.6	89.26	2.1	165.1	165.1	161.7	3.34	49.413
300.0	300.0	293.0	293.0	2.4	2.4	89.26	2.1	165.1	165.1	160.3	4.77	34.580
400.0	400.0	393.0	393.0	3.0	2.9	89.26	2.1	165.1	165.1	159.2	5.87	28.123
500.0	500.0	493.0	493.0	3.4	3.4	89.26	2.1	165.1	165.1	158.3	6.80	24.284
600.0	600.0	593.0	593.0	3.8	3.8	89.26	2.1	165.1	165.1	157.5	7.62	21.664
700.0	700.0	693.0	693.0	4.2	4.2	89.26	2.1	165.1	165.1	156.7	8.37	19.728
800.0	800.0	793.0	793.0	4.5	4.5	89.26	2.1	165.1	165.1	156.0	9.06	18.222
900.0	900.0	893.0	893.0	4.9	4.8	89.26	2.1	165.1	165.1	155.4	9.71	17.005
1,000.0	1,000.0	993.0	993.0	5.2	5.1	89.26	2.1	165.1	165.1	154.8	10.32	15.996
1,100.0	1,100.0	1,093.0	1,093.0	5.5	5.4	89.26	2.1	165.1	165.1	154.2	10.90	15.141
1,200.0	1,200.0	1,193.0	1,193.0	5.7	5.7	89.26	2.1	165.1	165.1	153.6	11.46	14.405
1,300.0	1,300.0	1,293.0	1,293.0	6.0	6.0	89.26	2.1	165.1	165.1	153.1	12.00	13.761
1,400.0	1,400.0	1,393.0	1,393.0	6.3	6.2	89.26	2.1	165.1	165.1	152.6	12.51	13.192
1,500.0	1,500.0	1,493.0	1,493.0	6.5	6.5	89.26	2.1	165.1	165.1	152.1	13.01	12.685
1,600.0	1,600.0	1,593.0	1,593.0	6.8	6.7	89.26	2.1	165.1	165.1	151.6	13.50	12.228
1,700.0	1,700.0	1,693.0	1,693.0	7.0	7.0	89.26	2.1	165.1	165.1	151.1	13.97	11.815
1,800.0	1,800.0	1,793.0	1,793.0	7.2	7.2	89.26	2.1	165.1	165.1	150.6	14.43	11.437
1,900.0	1,900.0	1,893.0	1,893.0	7.4	7.4	89.26	2.1	165.1	165.1	150.2	14.88	11.091
2,000.0	2,000.0	1,993.0	1,993.0	7.7	7.7	89.26	2.1	165.1	165.1	149.8	15.32	10.773
2,100.0	2,100.0	2,093.0	2,093.0	7.9	7.9	89.26	2.1	165.1	165.1	149.3	15.76	10.478
2,200.0	2,200.0	2,193.0	2,193.0	8.1	8.1	89.26	2.1	165.1	165.1	148.9	16.18	10.204
2,300.0	2,300.0	2,293.0	2,293.0	8.3	8.3	89.26	2.1	165.1	165.1	148.5	16.59	9.949
2,400.0	2,400.0	2,393.0	2,393.0	8.5	8.5	89.26	2.1	165.1	165.1	148.1	17.00	9.710
2,500.0	2,500.0	2,493.0	2,493.0	8.7	8.7	89.26	2.1	165.1	165.1	147.7	17.40	9.486
2,600.0	2,600.0	2,593.0	2,593.0	8.9	8.9	89.26	2.1	165.1	165.1	147.3	17.80	9.275
2,700.0	2,700.0	2,693.0	2,693.0	9.1	9.1	89.26	2.1	165.1	165.1	146.9	18.19	9.076
2,800.0	2,800.0	2,793.0	2,793.0	9.3	9.3	89.26	2.1	165.1	165.1	146.5	18.57	8.889
2,900.0	2,900.0	2,893.0	2,893.0	9.5	9.5	89.26	2.1	165.1	165.1	146.1	18.95	8.711
3,000.0	3,000.0	2,993.0	2,993.0	9.7	9.7	89.26	2.1	165.1	165.1	145.8	19.33	8.542
3,100.0	3,100.0	3,093.0	3,093.0	9.9	9.8	89.26	2.1	165.1	165.1	145.4	19.70	8.381
3,200.0	3,200.0	3,193.0	3,193.0	10.0	10.0	89.26	2.1	165.1	165.1	145.0	20.06	8.229
3,300.0	3,300.0	3,293.0	3,293.0	10.2	10.2	89.26	2.1	165.1	165.1	144.7	20.42	8.083
3,400.0	3,400.0	3,393.0	3,393.0	10.4	10.4	89.26	2.1	165.1	165.1	144.3	20.78	7.944
3,500.0	3,500.0	3,493.0	3,493.0	10.6	10.6	89.26	2.1	165.1	165.1	143.9	21.14	7.811
3,600.0	3,600.0	3,593.0	3,593.0	10.7	10.7	89.26	2.1	165.1	165.1	143.6	21.49	7.683
3,700.0	3,700.0	3,693.0	3,693.0	10.9	10.9	89.26	2.1	165.1	165.1	143.2	21.83	7.561
3,800.0	3,800.0	3,793.0	3,793.0	11.1	11.1	89.26	2.1	165.1	165.1	142.9	22.18	7.443
3,900.0	3,900.0	3,893.0	3,893.0	11.3	11.3	89.26	2.1	165.1	165.1	142.6	22.52	7.330
4,000.0	4,000.0	3,993.0	3,993.0	11.4	11.4	89.26	2.1	165.1	165.1	142.2	22.86	7.222
4,100.0	4,100.0	4,093.0	4,093.0	11.6	11.6	89.26	2.1	165.1	165.1	141.9	23.20	7.117
4,200.0	4,200.0	4,193.0	4,193.0	11.8	11.8	89.26	2.1	165.1	165.1	141.6	23.53	7.016
4,300.0	4,300.0	4,293.0	4,293.0	11.9	11.9	89.26	2.1	165.1	165.1	141.2	23.86	6.919
4,400.0	4,400.0	4,393.0	4,393.0	12.1	12.1	89.26	2.1	165.1	165.1	140.9	24.19	6.825
4,500.0	4,500.0	4,493.0	4,493.0	12.3	12.3	89.26	2.1	165.1	165.1	140.6	24.51	6.734
4,600.0	4,600.0	4,593.0	4,593.0	12.4	12.4	89.26	2.1	165.1	165.1	140.2	24.84	6.646
4,700.0	4,700.0	4,693.0	4,693.0	12.6	12.6	89.26	2.1	165.1	165.1	139.9	25.16	6.561
4,800.0	4,800.0	4,793.0	4,793.0	12.7	12.7	89.26	2.1	165.1	165.1	139.6	25.48	6.479
4,900.0	4,900.0	4,893.0	4,893.0	12.9	12.9	89.26	2.1	165.1	165.1	139.3	25.80	6.399
5,000.0	5,000.0	4,993.0	4,993.0	13.1	13.1	89.26	2.1	165.1	165.1	139.0	26.11	6.322 CC, ES
5,100.0	5,100.0	5,090.6	5,090.6	13.2	13.2	-144.78	1.9	165.7	166.5	140.2	26.32	6.326

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



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 701H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 701H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 701H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 505H - Anderson Fed Com 505H - Anderson Fed Com 505H - Prelim 1													Offset Site Error: 0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.0	5,200.0	5,187.8	5,187.8	13.3	13.3	-144.95	1.0	167.9	170.9	144.4	26.50	6.448	
5,300.0	5,299.9	5,284.8	5,284.7	13.4	13.4	-145.19	-0.5	171.6	178.2	151.5	26.70	6.676	
5,400.0	5,399.7	5,381.4	5,381.2	13.5	13.5	-145.49	-2.6	176.9	188.6	161.7	26.92	7.005	
5,500.0	5,499.4	5,477.5	5,477.0	13.6	13.6	-145.81	-5.2	183.5	201.9	174.7	27.18	7.429	
5,513.2	5,512.5	5,490.1	5,489.5	13.6	13.7	-145.86	-5.6	184.5	203.9	176.7	27.20	7.495	
5,600.0	5,599.0	5,573.1	5,572.1	13.8	13.8	-146.14	-8.5	191.7	217.6	190.2	27.42	7.935	
5,700.0	5,698.6	5,668.2	5,666.7	13.9	14.0	-146.27	-12.3	201.2	234.9	207.1	27.74	8.467	
5,800.0	5,798.2	5,762.9	5,760.6	14.2	14.2	-146.23	-16.7	212.2	253.6	225.5	28.06	9.039	
5,900.0	5,897.8	5,861.0	5,857.9	14.4	14.4	-146.13	-21.5	224.2	273.0	244.6	28.43	9.603	
6,000.0	5,997.4	5,959.1	5,955.1	14.6	14.6	-146.05	-26.3	236.2	292.4	263.6	28.86	10.134	
6,100.0	6,097.0	6,057.2	6,052.4	14.9	14.9	-145.97	-31.1	248.2	311.8	282.5	29.32	10.636	
6,200.0	6,196.6	6,155.3	6,149.6	15.1	15.2	-145.91	-35.9	260.3	331.2	301.4	29.81	11.112	
6,300.0	6,296.2	6,253.4	6,246.8	15.4	15.5	-145.85	-40.7	272.3	350.6	320.3	30.33	11.562	
6,400.0	6,395.8	6,351.5	6,344.1	15.7	15.8	-145.79	-45.6	284.3	370.0	339.2	30.87	11.988	
6,500.0	6,495.4	6,449.6	6,441.3	16.0	16.2	-145.75	-50.4	296.4	389.5	358.0	31.43	12.390	
6,600.0	6,595.0	6,547.7	6,538.6	16.4	16.5	-145.70	-55.2	308.4	408.9	376.8	32.02	12.768	
6,700.0	6,694.6	6,645.8	6,635.8	16.7	16.9	-145.66	-60.0	320.4	428.3	395.6	32.63	13.125	
6,800.0	6,794.2	6,743.9	6,733.0	17.1	17.3	-145.63	-64.8	332.4	447.7	414.4	33.26	13.460	
6,900.0	6,893.8	6,842.0	6,830.3	17.4	17.7	-145.60	-69.6	344.5	467.1	433.2	33.91	13.775	
7,000.0	6,993.4	6,940.1	6,927.5	17.8	18.1	-145.56	-74.4	356.5	486.5	451.9	34.58	14.070	
7,100.0	7,093.0	7,038.2	7,024.8	18.2	18.5	-145.54	-79.2	368.5	505.9	470.6	35.26	14.348	
7,200.0	7,192.6	7,136.3	7,122.0	18.5	18.9	-145.51	-84.0	380.5	525.3	489.4	35.96	14.609	
7,300.0	7,292.2	7,234.4	7,219.2	18.9	19.3	-145.49	-88.9	392.6	544.7	508.1	36.67	14.853	
7,400.0	7,391.8	7,332.5	7,316.5	19.3	19.8	-145.47	-93.7	404.6	564.1	526.7	37.40	15.083	
7,500.0	7,491.4	7,430.6	7,413.7	19.7	20.2	-145.44	-98.5	416.6	583.5	545.4	38.14	15.298	
7,600.0	7,591.0	7,528.7	7,510.9	20.2	20.7	-145.42	-103.3	428.7	603.0	564.1	38.90	15.501	
7,700.0	7,690.5	7,626.8	7,608.2	20.6	21.1	-145.41	-108.1	440.7	622.4	582.7	39.67	15.691	
7,800.0	7,790.1	7,724.9	7,705.4	21.0	21.6	-145.39	-112.9	452.7	641.8	601.3	40.44	15.869	
7,900.0	7,889.7	7,823.0	7,802.7	21.4	22.1	-145.37	-117.7	464.7	661.2	620.0	41.23	16.036	
8,000.0	7,989.3	7,921.1	7,899.9	21.9	22.5	-145.36	-122.5	476.8	680.6	638.6	42.03	16.193	
8,100.0	8,088.9	8,019.2	7,997.1	22.3	23.0	-145.34	-127.3	488.8	700.0	657.2	42.84	16.341	
8,200.0	8,188.5	8,117.3	8,094.4	22.7	23.5	-145.33	-132.2	500.8	719.4	675.8	43.65	16.480	
8,300.0	8,288.1	8,215.3	8,191.6	23.2	24.0	-145.32	-137.0	512.9	738.8	694.3	44.48	16.611	
8,400.0	8,387.7	8,313.4	8,288.9	23.7	24.5	-145.30	-141.8	524.9	758.2	712.9	45.31	16.734	
8,500.0	8,487.3	8,411.5	8,386.1	24.1	25.0	-145.29	-146.6	536.9	777.6	731.5	46.15	16.850	
8,600.0	8,586.9	8,509.6	8,483.3	24.6	25.5	-145.28	-151.4	548.9	797.1	750.1	47.00	16.959	
8,700.0	8,686.5	8,607.7	8,580.6	25.0	26.0	-145.27	-156.2	561.0	816.5	768.6	47.85	17.061	
8,801.4	8,787.5	8,707.2	8,679.2	25.5	26.5	-145.26	-161.1	573.2	836.1	787.4	48.73	17.159	
8,900.0	8,885.8	8,804.1	8,775.2	26.0	27.0	-145.33	-165.8	585.0	854.6	805.0	49.57	17.239	
9,000.0	8,985.6	8,907.4	8,877.6	26.4	27.5	-145.31	-170.9	597.6	871.8	821.4	50.42	17.293	
9,100.0	9,085.5	9,022.5	8,992.0	26.8	28.1	-145.25	-175.8	610.0	886.3	835.0	51.30	17.276	
9,200.0	9,185.5	9,138.5	9,107.4	27.2	28.7	-145.15	-180.0	620.4	897.5	845.3	52.14	17.213	
9,300.0	9,285.4	9,255.1	9,223.6	27.5	29.3	-145.03	-183.3	628.6	905.4	852.5	52.89	17.119	
9,314.6	9,300.0	9,272.1	9,240.6	27.5	29.3	88.97	-183.7	629.6	906.3	853.3	52.97	17.109	
9,400.0	9,385.4	9,372.0	9,340.4	27.5	29.8	89.10	-185.7	634.6	910.5	857.1	53.41	17.046	
9,437.1	9,422.5	9,415.4	9,383.8	27.5	29.9	89.14	-186.3	636.3	911.9	858.3	53.59	17.017	
9,450.0	9,435.4	9,430.6	9,398.9	27.5	30.0	89.48	-186.5	636.8	912.4	858.7	53.64	17.008	
9,475.0	9,460.4	9,459.8	9,428.1	27.5	30.1	89.51	-186.9	637.7	913.1	859.4	53.75	16.989	
9,500.0	9,485.3	9,488.9	9,457.2	27.4	30.2	89.65	-187.2	638.4	913.7	859.9	53.84	16.970	
9,525.0	9,510.0	9,517.8	9,486.1	27.4	30.3	89.89	-187.4	639.0	914.2	860.3	53.92	16.955	
9,550.0	9,534.4	9,546.5	9,514.8	27.3	30.4	90.22	-187.6	639.5	914.7	860.7	53.99	16.942	
9,575.0	9,558.5	9,574.8	9,543.1	27.3	30.5	90.65	-187.8	639.8	915.0	861.0	54.05	16.929	

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 701H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 701H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 701H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 505H - Anderson Fed Com 505H - Anderson Fed Com 505H - Prelim 1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM				Rule Assigned:									Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance				Warning	
Measured Depth	Vertical	Measured Depth	Vertical	Reference	Offset	Highside Toolface	+N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
9,600.0	9,582.3	9,602.7	9,571.0	27.2	30.6	91.16	-187.8	640.0	915.3	861.2	54.10	16.918		
9,625.0	9,605.6	9,630.1	9,598.4	27.1	30.6	91.74	-187.9	640.1	915.6	861.5	54.10	16.923		
9,650.0	9,628.5	9,653.2	9,621.5	27.1	30.7	92.28	-187.9	640.1	916.0	861.9	54.08	16.937		
9,675.0	9,650.7	9,675.4	9,643.7	27.0	30.7	92.84	-187.9	640.1	916.6	862.5	54.06	16.956		
9,700.0	9,672.4	9,697.1	9,665.4	26.9	30.7	93.42	-187.9	640.1	917.4	863.4	54.03	16.980		
9,725.0	9,693.3	9,718.0	9,686.3	26.9	30.7	94.01	-187.9	640.1	918.4	864.4	53.99	17.011		
9,750.0	9,713.5	9,738.2	9,706.5	26.8	30.7	94.59	-187.9	640.1	919.8	865.9	53.95	17.050		
9,775.0	9,732.9	9,758.6	9,726.9	26.8	30.7	95.18	-187.8	640.1	921.5	867.6	53.90	17.096		
9,800.0	9,751.5	9,783.9	9,752.2	26.7	30.7	95.94	-186.9	640.1	923.5	869.7	53.84	17.153		
9,825.0	9,769.2	9,810.3	9,778.5	26.7	30.6	96.72	-184.6	640.1	925.8	872.1	53.78	17.217		
9,850.0	9,785.9	9,838.2	9,806.0	26.7	30.6	97.51	-180.5	640.0	928.4	874.7	53.71	17.287		
9,875.0	9,801.6	9,867.6	9,834.9	26.6	30.6	98.32	-174.5	640.0	931.2	877.6	53.64	17.361		
9,900.0	9,816.3	9,898.9	9,865.0	26.6	30.5	99.15	-166.1	640.0	934.2	880.6	53.57	17.438		
9,925.0	9,829.9	9,932.3	9,896.5	26.6	30.4	100.01	-155.0	639.9	937.4	883.9	53.52	17.517		
9,950.0	9,842.3	9,968.1	9,929.3	26.6	30.4	100.90	-140.8	639.8	940.8	887.3	53.47	17.593		
9,975.0	9,853.7	10,006.6	9,963.3	26.6	30.3	101.83	-122.7	639.7	944.2	890.7	53.45	17.664		
10,000.0	9,863.8	10,048.4	9,998.4	26.6	30.3	102.78	-100.1	639.6	947.7	894.2	53.46	17.727		
10,025.0	9,872.8	10,093.7	10,034.1	26.7	30.2	103.76	-72.2	639.5	951.1	897.6	53.51	17.776		
10,050.0	9,880.5	10,142.9	10,069.6	26.7	30.2	104.75	-38.3	639.3	954.4	900.8	53.60	17.807		
10,075.0	9,886.9	10,196.3	10,104.1	26.8	30.1	105.71	2.5	639.1	957.5	903.8	53.75	17.815		
10,100.0	9,892.1	10,254.0	10,135.9	26.9	30.2	106.62	50.7	638.8	960.3	906.3	53.96	17.798		
10,125.0	9,896.0	10,316.0	10,163.4	26.9	30.2	107.41	106.2	638.5	962.6	908.4	54.23	17.750		
10,150.0	9,898.6	10,369.5	10,181.0	27.0	30.4	107.89	156.7	638.3	964.3	909.8	54.50	17.694		
10,175.0	9,899.8	10,450.0	10,196.9	27.1	30.6	108.42	235.5	637.8	965.4	910.5	54.93	17.575		
10,187.1	9,900.0	10,483.7	10,199.6	27.2	30.8	108.51	269.1	637.7	965.7	910.6	55.12	17.518		
10,200.0	9,900.0	10,509.8	10,200.0	27.3	30.9	108.54	295.2	637.5	965.8	910.5	55.29	17.466		
10,300.0	9,900.0	10,609.8	10,200.0	27.8	31.4	108.53	395.2	637.0	965.9	909.6	56.31	17.153		
10,400.0	9,900.0	10,709.8	10,200.0	28.5	32.1	108.53	495.2	636.5	966.0	908.4	57.57	16.778		
10,500.0	9,900.0	10,809.8	10,200.0	29.3	32.9	108.53	595.2	636.0	966.1	907.0	59.07	16.355		
10,600.0	9,900.0	10,909.8	10,200.0	30.1	33.7	108.53	695.2	635.4	966.2	905.4	60.77	15.899		
10,700.0	9,900.0	11,009.8	10,200.0	31.1	34.7	108.52	795.2	634.9	966.3	903.6	62.66	15.420		
10,800.0	9,900.0	11,109.8	10,200.0	32.2	35.7	108.52	895.2	634.4	966.4	901.7	64.73	14.929		
10,900.0	9,900.0	11,209.8	10,200.0	33.4	36.8	108.52	995.2	633.9	966.5	899.5	66.96	14.433		
11,000.0	9,900.0	11,309.8	10,200.0	34.7	38.0	108.52	1,095.2	633.3	966.6	897.3	69.34	13.941		
11,100.0	9,900.0	11,409.8	10,200.0	36.0	39.3	108.52	1,195.2	632.8	966.7	894.9	71.84	13.456		
11,200.0	9,900.0	11,509.8	10,200.0	37.4	40.6	108.51	1,295.2	632.3	966.8	892.3	74.47	12.983		
11,300.0	9,900.0	11,609.8	10,200.0	38.8	41.9	108.51	1,395.2	631.8	966.9	889.7	77.20	12.526		
11,400.0	9,900.0	11,709.8	10,200.0	40.3	43.3	108.51	1,495.2	631.2	967.0	887.0	80.02	12.085		
11,500.0	9,900.0	11,809.8	10,200.0	41.9	44.8	108.51	1,595.2	630.7	967.1	884.2	82.93	11.662		
11,600.0	9,900.0	11,909.8	10,200.0	43.5	46.3	108.51	1,695.2	630.2	967.2	881.3	85.92	11.257		
11,700.0	9,900.0	12,009.8	10,200.0	45.1	47.8	108.50	1,795.2	629.7	967.3	878.4	88.98	10.872		
11,800.0	9,900.0	12,109.8	10,200.0	46.8	49.4	108.50	1,895.2	629.1	967.4	875.3	92.10	10.504		
11,900.0	9,900.0	12,209.8	10,200.0	48.5	51.0	108.50	1,995.2	628.6	967.5	872.3	95.28	10.155		
12,000.0	9,900.0	12,309.8	10,200.0	50.2	52.6	108.50	2,095.1	628.1	967.6	869.1	98.50	9.823		
12,100.0	9,900.0	12,409.8	10,200.0	51.9	54.3	108.50	2,195.1	627.6	967.8	866.0	101.78	9.508		
12,200.0	9,900.0	12,509.8	10,200.0	53.7	55.9	108.49	2,295.1	627.0	967.9	862.8	105.09	9.209		
12,300.0	9,900.0	12,609.8	10,200.0	55.4	57.6	108.49	2,395.1	626.5	968.0	859.5	108.45	8.925		
12,400.0	9,900.0	12,709.8	10,200.0	57.2	59.3	108.49	2,495.1	626.0	968.1	856.2	111.84	8.656		
12,500.0	9,900.0	12,809.8	10,200.0	59.0	61.1	108.49	2,595.1	625.5	968.2	852.9	115.26	8.400		
12,600.0	9,900.0	12,909.8	10,200.0	60.9	62.8	108.49	2,695.1	624.9	968.3	849.6	118.71	8.157		
12,700.0	9,900.0	13,009.8	10,200.0	62.7	64.6	108.48	2,795.1	624.4	968.4	846.2	122.18	7.926		
12,800.0	9,900.0	13,109.8	10,200.0	64.5	66.4	108.48	2,895.1	623.9	968.5	842.8	125.68	7.706		

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



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 701H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 701H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 701H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 505H - Anderson Fed Com 505H - Anderson Fed Com 505H - Prelim 1											Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM											Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	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)		
12,900.0	9,900.0	13,209.8	10,200.0	66.4	68.2	108.48	2,995.1	623.4	968.6	839.4	129.21	7.496
13,000.0	9,900.0	13,309.8	10,200.0	68.3	70.0	108.48	3,095.1	622.8	968.7	835.9	132.75	7.297
13,100.0	9,900.0	13,409.8	10,200.0	70.1	71.8	108.47	3,195.1	622.3	968.8	832.5	136.31	7.107
13,200.0	9,900.0	13,509.8	10,200.0	72.0	73.6	108.47	3,295.1	621.8	968.9	829.0	139.89	6.926
13,300.0	9,900.0	13,609.8	10,200.0	73.9	75.5	108.47	3,395.1	621.3	969.0	825.5	143.49	6.753
13,400.0	9,900.0	13,709.8	10,200.0	75.8	77.3	108.47	3,495.1	620.7	969.1	822.0	147.10	6.588
13,500.0	9,900.0	13,809.8	10,200.0	77.7	79.2	108.47	3,595.1	620.2	969.2	818.5	150.72	6.431
13,600.0	9,900.0	13,909.8	10,200.0	79.6	81.1	108.46	3,695.1	619.7	969.3	815.0	154.36	6.280
13,700.0	9,900.0	14,009.8	10,200.0	81.5	82.9	108.46	3,795.1	619.2	969.4	811.4	158.01	6.135
13,800.0	9,900.0	14,109.8	10,200.0	83.4	84.8	108.46	3,895.1	618.6	969.5	807.9	161.67	5.997
13,900.0	9,900.0	14,209.8	10,200.0	85.4	86.7	108.46	3,995.1	618.1	969.6	804.3	165.34	5.865
14,000.0	9,900.0	14,309.8	10,200.0	87.3	88.6	108.46	4,095.1	617.6	969.7	800.7	169.02	5.738
14,100.0	9,900.0	14,409.8	10,200.0	89.2	90.5	108.45	4,195.1	617.1	969.9	797.1	172.71	5.616
14,200.0	9,900.0	14,509.8	10,200.0	91.1	92.4	108.45	4,295.1	616.5	970.0	793.6	176.41	5.498
14,300.0	9,900.0	14,609.8	10,200.0	93.1	94.3	108.45	4,395.1	616.0	970.1	790.0	180.11	5.386
14,400.0	9,900.0	14,709.8	10,200.0	95.0	96.2	108.45	4,495.1	615.5	970.2	786.3	183.83	5.278
14,500.0	9,900.0	14,809.8	10,200.0	97.0	98.1	108.45	4,595.1	615.0	970.3	782.7	187.55	5.174
14,600.0	9,900.0	14,909.8	10,200.0	98.9	100.0	108.44	4,695.1	614.4	970.4	779.1	191.27	5.073
14,700.0	9,900.0	15,009.8	10,200.0	100.9	101.9	108.44	4,795.1	613.9	970.5	775.5	195.01	4.977
14,800.0	9,900.0	15,109.8	10,200.0	102.8	103.9	108.44	4,895.1	613.4	970.6	771.8	198.75	4.884
14,900.0	9,900.0	15,209.8	10,200.0	104.8	105.8	108.44	4,995.1	612.9	970.7	768.2	202.49	4.794
15,000.0	9,900.0	15,309.8	10,200.0	106.7	107.7	108.44	5,095.1	612.3	970.8	764.6	206.24	4.707
15,100.0	9,900.0	15,409.8	10,200.0	108.7	109.7	108.43	5,195.1	611.8	970.9	760.9	210.00	4.623
15,200.0	9,900.0	15,509.8	10,200.0	110.7	111.6	108.43	5,295.1	611.3	971.0	757.3	213.76	4.543
15,300.0	9,900.0	15,609.8	10,200.0	112.6	113.5	108.43	5,395.1	610.8	971.1	753.6	217.53	4.464
15,400.0	9,900.0	15,709.8	10,200.0	114.6	115.5	108.43	5,495.1	610.2	971.2	749.9	221.29	4.389
15,500.0	9,900.0	15,809.8	10,200.0	116.6	117.4	108.42	5,595.1	609.7	971.3	746.3	225.07	4.316
15,600.0	9,900.0	15,909.8	10,200.0	118.5	119.4	108.42	5,695.1	609.2	971.4	742.6	228.85	4.245
15,700.0	9,900.0	16,009.8	10,200.0	120.5	121.3	108.42	5,795.1	608.7	971.5	738.9	232.63	4.176
15,800.0	9,900.0	16,109.8	10,200.0	122.5	123.3	108.42	5,895.1	608.1	971.6	735.2	236.41	4.110
15,900.0	9,900.0	16,209.8	10,200.0	124.4	125.2	108.42	5,995.1	607.6	971.7	731.5	240.20	4.046
16,000.0	9,900.0	16,309.8	10,200.0	126.4	127.2	108.41	6,095.1	607.1	971.9	727.9	243.99	3.983
16,100.0	9,900.0	16,409.8	10,200.0	128.4	129.1	108.41	6,195.1	606.6	972.0	724.2	247.79	3.923
16,200.0	9,900.0	16,509.8	10,200.0	130.4	131.1	108.41	6,295.1	606.0	972.1	720.5	251.58	3.864
16,300.0	9,900.0	16,609.8	10,200.0	132.3	133.1	108.41	6,395.1	605.5	972.2	716.8	255.38	3.807
16,400.0	9,900.0	16,709.8	10,200.0	134.3	135.0	108.41	6,495.1	605.0	972.3	713.1	259.19	3.751
16,500.0	9,900.0	16,809.8	10,200.0	136.3	137.0	108.40	6,595.1	604.5	972.4	709.4	262.99	3.697
16,600.0	9,900.0	16,909.8	10,200.0	138.3	139.0	108.40	6,695.1	603.9	972.5	705.7	266.80	3.645
16,700.0	9,900.0	17,009.8	10,200.0	140.3	140.9	108.40	6,795.1	603.4	972.6	702.0	270.61	3.594
16,800.0	9,900.0	17,109.8	10,200.0	142.3	142.9	108.40	6,895.1	602.9	972.7	698.3	274.42	3.545
16,900.0	9,900.0	17,209.8	10,200.0	144.2	144.9	108.40	6,995.1	602.4	972.8	694.6	278.24	3.496
17,000.0	9,900.0	17,309.8	10,200.0	146.2	146.8	108.39	7,095.1	601.8	972.9	690.9	282.05	3.449
17,100.0	9,900.0	17,409.8	10,200.0	148.2	148.8	108.39	7,195.1	601.3	973.0	687.1	285.87	3.404
17,200.0	9,900.0	17,509.8	10,200.0	150.2	150.8	108.39	7,295.1	600.8	973.1	683.4	289.69	3.359
17,300.0	9,900.0	17,609.8	10,200.0	152.2	152.8	108.39	7,395.1	600.3	973.2	679.7	293.51	3.316
17,400.0	9,900.0	17,709.8	10,200.0	154.2	154.7	108.39	7,495.1	599.7	973.3	676.0	297.34	3.273
17,500.0	9,900.0	17,809.8	10,200.0	156.2	156.7	108.38	7,595.1	599.2	973.4	672.3	301.16	3.232
17,600.0	9,900.0	17,909.8	10,200.0	158.1	158.7	108.38	7,695.1	598.7	973.5	668.5	304.99	3.192
17,700.0	9,900.0	18,009.8	10,200.0	160.1	160.7	108.38	7,795.1	598.2	973.6	664.8	308.82	3.153
17,800.0	9,900.0	18,109.8	10,200.0	162.1	162.7	108.38	7,895.1	597.6	973.7	661.1	312.65	3.114
17,900.0	9,900.0	18,209.8	10,200.0	164.1	164.6	108.38	7,995.1	597.1	973.8	657.4	316.48	3.077
17,910.6	9,900.0	18,220.4	10,200.0	164.3	164.8	108.38	8,005.7	597.1	973.9	657.0	316.89	3.073 SF

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



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 701H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 701H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 701H - Prelim 1	Offset TVD Reference:	Offset Datum



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 701H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 701H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 701H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 551H - Anderson Fed Com 551H - Anderson Fed Com 551H - Prelim 1											Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM											Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		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
0.0	0.0	0.0	0.0	0.0	0.0	89.32	0.8	66.0	66.0			
100.0	100.0	100.0	100.0	0.5	0.5	89.32	0.8	66.0	66.0	65.0	1.06	62.276
200.0	200.0	200.0	200.0	1.7	1.7	89.32	0.8	66.0	66.0	62.6	3.42	19.288
300.0	300.0	300.0	300.0	2.4	2.4	89.32	0.8	66.0	66.0	61.2	4.82	13.691
400.0	400.0	400.0	400.0	3.0	3.0	89.32	0.8	66.0	66.0	60.1	5.91	11.177
423.6	423.6	423.6	423.6	3.1	3.1	89.32	0.8	66.0	66.0	59.9	6.13	10.780
500.0	500.0	500.0	500.0	3.4	3.4	89.32	0.8	66.0	66.0	59.2	6.83	9.668
524.6	524.6	524.6	524.6	3.5	3.5	89.32	0.8	66.0	66.0	59.0	7.03	9.391
600.0	600.0	600.0	600.0	3.8	3.8	89.32	0.8	66.0	66.0	58.4	7.65	8.633
633.3	633.3	633.3	633.3	3.9	3.9	89.32	0.8	66.0	66.0	58.1	7.90	8.362
700.0	700.0	700.0	700.0	4.2	4.2	89.32	0.8	66.0	66.0	57.6	8.39	7.867
800.0	800.0	800.0	800.0	4.5	4.5	89.32	0.8	66.0	66.0	56.9	9.08	7.269
900.0	900.0	900.0	900.0	4.9	4.9	89.32	0.8	66.0	66.0	56.3	9.73	6.786
1,000.0	1,000.0	1,000.0	1,000.0	5.2	5.2	89.32	0.8	66.0	66.0	55.7	10.34	6.385
1,100.0	1,100.0	1,100.0	1,100.0	5.5	5.5	89.32	0.8	66.0	66.0	55.1	10.92	6.045
1,200.0	1,200.0	1,200.0	1,200.0	5.7	5.7	89.32	0.8	66.0	66.0	54.6	11.48	5.752
1,300.0	1,300.0	1,300.0	1,300.0	6.0	6.0	89.32	0.8	66.0	66.0	54.0	12.01	5.496
1,400.0	1,400.0	1,400.0	1,400.0	6.3	6.3	89.32	0.8	66.0	66.0	53.5	12.53	5.269
1,500.0	1,500.0	1,500.0	1,500.0	6.5	6.5	89.32	0.8	66.0	66.0	53.0	13.03	5.067
1,600.0	1,600.0	1,600.0	1,600.0	6.8	6.8	89.32	0.8	66.0	66.0	52.5	13.52	4.885
1,700.0	1,700.0	1,700.0	1,700.0	7.0	7.0	89.32	0.8	66.0	66.0	52.0	13.99	4.720
1,800.0	1,800.0	1,800.0	1,800.0	7.2	7.2	89.32	0.8	66.0	66.0	51.6	14.45	4.570
1,900.0	1,900.0	1,900.0	1,900.0	7.4	7.4	89.32	0.8	66.0	66.0	51.1	14.90	4.432
2,000.0	2,000.0	2,000.0	2,000.0	7.7	7.7	89.32	0.8	66.0	66.0	50.7	15.34	4.305
2,100.0	2,100.0	2,100.0	2,100.0	7.9	7.9	89.32	0.8	66.0	66.0	50.3	15.77	4.187
2,200.0	2,200.0	2,200.0	2,200.0	8.1	8.1	89.32	0.8	66.0	66.0	49.8	16.19	4.078
2,300.0	2,300.0	2,300.0	2,300.0	8.3	8.3	89.32	0.8	66.0	66.0	49.4	16.61	3.976
2,400.0	2,400.0	2,400.0	2,400.0	8.5	8.5	89.32	0.8	66.0	66.0	49.0	17.02	3.881
2,500.0	2,500.0	2,500.0	2,500.0	8.7	8.7	89.32	0.8	66.0	66.0	48.6	17.42	3.791
2,600.0	2,600.0	2,600.0	2,600.0	8.9	8.9	89.32	0.8	66.0	66.0	48.2	17.81	3.707
2,700.0	2,700.0	2,700.0	2,700.0	9.1	9.1	89.32	0.8	66.0	66.0	47.8	18.20	3.628
2,800.0	2,800.0	2,800.0	2,800.0	9.3	9.3	89.32	0.8	66.0	66.0	47.4	18.59	3.553
2,900.0	2,900.0	2,900.0	2,900.0	9.5	9.5	89.32	0.8	66.0	66.0	47.1	18.96	3.482
3,000.0	3,000.0	3,000.0	3,000.0	9.7	9.7	89.32	0.8	66.0	66.0	46.7	19.34	3.414
3,100.0	3,100.0	3,100.0	3,100.0	9.9	9.9	89.32	0.8	66.0	66.0	46.3	19.71	3.350
3,200.0	3,200.0	3,200.0	3,200.0	10.0	10.0	89.32	0.8	66.0	66.0	46.0	20.07	3.289
3,300.0	3,300.0	3,300.0	3,300.0	10.2	10.2	89.32	0.8	66.0	66.0	45.6	20.44	3.231
3,400.0	3,400.0	3,400.0	3,400.0	10.4	10.4	89.32	0.8	66.0	66.0	45.2	20.79	3.176
3,500.0	3,500.0	3,500.0	3,500.0	10.6	10.6	89.32	0.8	66.0	66.0	44.9	21.15	3.122
3,600.0	3,600.0	3,600.0	3,600.0	10.7	10.7	89.32	0.8	66.0	66.0	44.5	21.50	3.071
3,700.0	3,700.0	3,700.0	3,700.0	10.9	10.9	89.32	0.8	66.0	66.0	44.2	21.85	3.023
3,800.0	3,800.0	3,800.0	3,800.0	11.1	11.1	89.32	0.8	66.0	66.0	43.8	22.19	2.976
3,900.0	3,900.0	3,900.0	3,900.0	11.3	11.3	89.32	0.8	66.0	66.0	43.5	22.53	2.931
4,000.0	4,000.0	4,000.0	4,000.0	11.4	11.4	89.32	0.8	66.0	66.0	43.2	22.87	2.887
4,100.0	4,100.0	4,100.0	4,100.0	11.6	11.6	89.32	0.8	66.0	66.0	42.8	23.21	2.845
4,200.0	4,200.0	4,200.0	4,200.0	11.8	11.8	89.32	0.8	66.0	66.0	42.5	23.54	2.805
4,300.0	4,300.0	4,300.0	4,300.0	11.9	11.9	89.32	0.8	66.0	66.0	42.2	23.87	2.766
4,400.0	4,400.0	4,400.0	4,400.0	12.1	12.1	89.32	0.8	66.0	66.0	41.8	24.20	2.729
4,500.0	4,500.0	4,500.0	4,500.0	12.3	12.3	89.32	0.8	66.0	66.0	41.5	24.53	2.692
4,600.0	4,600.0	4,600.0	4,600.0	12.4	12.4	89.32	0.8	66.0	66.0	41.2	24.85	2.657
4,700.0	4,700.0	4,700.0	4,700.0	12.6	12.6	89.32	0.8	66.0	66.0	40.9	25.17	2.623
4,800.0	4,800.0	4,800.0	4,800.0	12.7	12.7	89.32	0.8	66.0	66.0	40.5	25.49	2.590

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 701H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 701H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 701H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 551H - Anderson Fed Com 551H - Anderson Fed Com 551H - Prelim 1													Offset Site Error: 0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.0 usft
Reference	Offset	Semi Major Axis		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)		
4,900.0	4,900.0	4,900.0	4,900.0	12.9	12.9	89.32	0.8	66.0	66.0	40.2	25.81	2.558	
5,000.0	5,000.0	5,000.0	5,000.0	13.1	13.1	89.32	0.8	66.0	66.0	39.9	26.12	2.528 CC, ES	
5,100.0	5,100.0	5,100.0	5,100.0	13.2	13.2	-145.08	0.8	66.0	66.7	40.4	26.38	2.530	
5,200.0	5,200.0	5,200.0	5,200.0	13.3	13.4	-146.32	0.8	66.0	68.9	42.3	26.62	2.588	
5,300.0	5,299.9	5,299.9	5,299.9	13.4	13.5	-148.21	0.8	66.0	72.6	45.7	26.88	2.701	
5,400.0	5,399.7	5,399.7	5,399.7	13.5	13.7	-150.55	0.8	66.0	77.8	50.7	27.15	2.867	
5,500.0	5,499.4	5,500.7	5,500.7	13.6	13.8	-152.87	0.2	65.3	84.0	56.6	27.37	3.069	
5,513.2	5,512.5	5,514.0	5,513.9	13.6	13.8	-153.14	0.1	65.1	84.8	57.4	27.39	3.097	
5,600.0	5,599.0	5,601.8	5,601.8	13.8	13.9	-154.67	-1.4	63.2	89.7	62.1	27.57	3.254	
5,700.0	5,698.6	5,703.2	5,703.0	13.9	14.0	-155.78	-4.2	59.7	93.9	66.1	27.82	3.374	
5,800.0	5,798.2	5,804.6	5,804.3	14.2	14.1	-156.35	-8.0	54.8	96.5	68.4	28.12	3.433	
5,900.0	5,897.8	5,904.6	5,904.0	14.4	14.2	-156.66	-12.4	49.3	98.4	69.9	28.45	3.459	
6,000.0	5,997.4	6,004.6	6,003.7	14.6	14.4	-156.96	-16.7	43.7	100.3	71.5	28.81	3.480	
6,100.0	6,097.0	6,104.6	6,103.5	14.9	14.5	-157.25	-21.0	38.2	102.1	72.9	29.20	3.498	
6,200.0	6,196.6	6,204.5	6,203.2	15.1	14.7	-157.53	-25.4	32.7	104.0	74.4	29.62	3.511	
6,300.0	6,296.2	6,304.5	6,302.9	15.4	14.9	-157.80	-29.7	27.1	105.9	75.8	30.07	3.521	
6,400.0	6,395.8	6,404.5	6,402.7	15.7	15.1	-158.06	-34.1	21.6	107.8	77.2	30.54	3.528	
6,500.0	6,495.4	6,504.5	6,502.4	16.0	15.4	-158.31	-38.4	16.1	109.6	78.6	31.04	3.531	
6,600.0	6,595.0	6,604.5	6,602.1	16.4	15.6	-158.56	-42.7	10.5	111.5	79.9	31.57	3.532	
6,700.0	6,694.6	6,704.4	6,701.9	16.7	15.9	-158.79	-47.1	5.0	113.4	81.3	32.12	3.530	
6,800.0	6,794.2	6,804.4	6,801.6	17.1	16.1	-159.02	-51.4	-0.5	115.3	82.6	32.70	3.526	
6,900.0	6,893.8	6,904.4	6,901.4	17.4	16.4	-159.24	-55.8	-6.1	117.2	83.9	33.29	3.519	
7,000.0	6,993.4	7,004.4	7,001.1	17.8	16.7	-159.45	-60.1	-11.6	119.1	85.1	33.91	3.511	
7,100.0	7,093.0	7,104.4	7,100.8	18.2	17.0	-159.66	-64.4	-17.1	120.9	86.4	34.55	3.501	
7,200.0	7,192.6	7,204.4	7,200.6	18.5	17.3	-159.86	-68.8	-22.7	122.8	87.6	35.20	3.489	
7,300.0	7,292.2	7,304.3	7,300.3	18.9	17.6	-160.05	-73.1	-28.2	124.7	88.9	35.88	3.477	
7,400.0	7,391.8	7,404.3	7,400.0	19.3	18.0	-160.24	-77.5	-33.7	126.6	90.1	36.57	3.463	
7,500.0	7,491.4	7,504.3	7,499.8	19.7	18.3	-160.42	-81.8	-39.3	128.5	91.2	37.27	3.448	
7,600.0	7,591.0	7,604.3	7,599.5	20.2	18.7	-160.60	-86.1	-44.8	130.4	92.4	38.00	3.432	
7,700.0	7,690.5	7,704.3	7,699.2	20.6	19.0	-160.77	-90.5	-50.3	132.3	93.6	38.73	3.416	
7,800.0	7,790.1	7,804.2	7,799.0	21.0	19.4	-160.94	-94.8	-55.9	134.2	94.7	39.48	3.399	
7,900.0	7,889.7	7,904.2	7,898.7	21.4	19.8	-161.10	-99.2	-61.4	136.1	95.9	40.25	3.382	
8,000.0	7,989.3	8,004.2	7,998.4	21.9	20.1	-161.26	-103.5	-66.9	138.0	97.0	41.02	3.365	
8,100.0	8,088.9	8,104.2	8,098.2	22.3	20.5	-161.41	-107.8	-72.5	139.9	98.1	41.81	3.347	
8,200.0	8,188.5	8,204.2	8,197.9	22.7	20.9	-161.56	-112.2	-78.0	141.8	99.2	42.61	3.329	
8,300.0	8,288.1	8,304.1	8,297.6	23.2	21.3	-161.71	-116.5	-83.5	143.7	100.3	43.41	3.311	
8,400.0	8,387.7	8,404.1	8,397.4	23.7	21.7	-161.85	-120.9	-89.1	145.6	101.4	44.23	3.292	
8,500.0	8,487.3	8,504.1	8,497.1	24.1	22.1	-161.99	-125.2	-94.6	147.5	102.5	45.06	3.274	
8,600.0	8,586.9	8,604.1	8,596.8	24.6	22.5	-162.12	-129.5	-100.1	149.4	103.5	45.90	3.256	
8,700.0	8,686.5	8,704.1	8,696.6	25.0	22.9	-162.26	-133.9	-105.7	151.4	104.6	46.74	3.238	
8,801.4	8,787.5	8,805.5	8,797.7	25.5	23.3	-162.39	-138.3	-111.3	153.3	105.7	47.61	3.220	
8,900.0	8,885.8	8,904.0	8,896.0	26.0	23.7	-162.42	-142.6	-116.7	154.4	105.9	48.43	3.187	
9,000.0	8,985.6	9,004.0	8,995.8	26.4	24.2	-162.25	-146.9	-122.3	153.8	104.6	49.23	3.124	
9,100.0	9,085.5	9,104.0	9,095.5	26.8	24.6	-161.87	-151.2	-127.8	151.6	101.6	49.96	3.034	
9,200.0	9,185.5	9,203.9	9,195.2	27.2	25.0	-161.26	-155.6	-133.3	147.7	97.1	50.63	2.918	
9,300.0	9,285.4	9,303.7	9,294.7	27.5	25.5	-160.38	-159.9	-138.8	142.2	91.1	51.16	2.780	
9,314.6	9,300.0	9,318.3	9,309.2	27.5	25.5	73.74	-160.5	-139.7	141.3	90.1	51.21	2.759	
9,400.0	9,385.4	9,403.5	9,394.3	27.5	25.9	74.69	-164.2	-144.4	135.7	84.3	51.42	2.639	
9,437.1	9,422.5	9,440.5	9,431.2	27.5	26.1	75.12	-165.8	-146.4	133.3	81.8	51.50	2.589	
9,450.0	9,435.4	9,453.4	9,444.0	27.5	26.1	75.82	-166.4	-147.1	132.4	80.9	51.51	2.571	
9,475.0	9,460.4	9,478.2	9,468.8	27.5	26.2	76.91	-167.5	-148.5	130.5	79.1	51.43	2.538	
9,500.0	9,485.3	9,502.9	9,493.4	27.4	26.3	78.62	-168.5	-149.9	128.4	77.1	51.22	2.506	

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 701H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 701H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 701H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 551H - Anderson Fed Com 551H - Anderson Fed Com 551H - Prelim 1													Offset Site Error: 0.0 usft	
Survey Program: 0-MWD+HRGM									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	
9,525.0	9,510.0	9,527.3	9,517.8	27.4	26.4	80.95	-169.6	-151.2	126.1	75.2	50.86	2.479		
9,550.0	9,534.4	9,551.5	9,541.9	27.3	26.5	83.90	-170.7	-152.6	123.8	73.5	50.31	2.461		
9,575.0	9,558.5	9,575.3	9,565.6	27.3	26.6	87.44	-171.7	-153.9	121.8	72.2	49.55	2.457	SF	
9,600.0	9,582.3	9,598.7	9,589.0	27.2	26.7	91.51	-172.7	-155.2	120.2	71.6	48.54	2.476		
9,625.0	9,605.6	9,621.6	9,611.8	27.1	26.8	96.00	-173.7	-156.4	119.4	72.1	47.27	2.526		
9,631.8	9,611.9	9,627.7	9,617.9	27.1	26.9	97.28	-174.0	-156.8	119.3	72.5	46.88	2.546		
9,650.0	9,628.5	9,643.9	9,634.1	27.1	26.9	100.77	-174.7	-157.7	119.7	73.9	45.75	2.616		
9,675.0	9,650.7	9,665.6	9,655.7	27.0	27.0	105.67	-175.6	-158.9	121.4	77.3	44.06	2.754		
9,700.0	9,672.4	9,686.7	9,676.7	26.9	27.1	110.50	-176.5	-160.0	124.7	82.4	42.32	2.947		
9,725.0	9,693.3	9,707.0	9,697.0	26.9	27.2	115.11	-177.4	-161.2	130.0	89.3	40.68	3.195		
9,750.0	9,713.5	9,726.5	9,716.5	26.8	27.3	119.37	-178.3	-162.2	137.2	97.9	39.28	3.493		
9,775.0	9,732.9	9,745.2	9,735.1	26.8	27.4	123.19	-179.1	-163.3	146.4	108.2	38.22	3.831		
9,800.0	9,751.5	9,763.0	9,752.8	26.7	27.5	126.51	-179.8	-164.3	157.6	120.0	37.52	4.199		
9,825.0	9,769.2	9,779.8	9,769.7	26.7	27.6	129.31	-180.6	-165.2	170.5	133.4	37.15	4.590		
9,850.0	9,785.9	9,795.7	9,785.5	26.7	27.6	131.59	-181.3	-166.1	185.2	148.1	37.03	5.000		
9,875.0	9,801.6	9,810.5	9,800.3	26.6	27.7	133.35	-181.9	-166.9	201.3	164.2	37.10	5.425		
9,900.0	9,816.3	9,824.3	9,814.0	26.6	27.8	134.60	-182.5	-167.7	218.8	181.5	37.29	5.866		
9,925.0	9,829.9	9,837.0	9,826.7	26.6	27.8	135.31	-183.0	-168.4	237.4	199.9	37.55	6.323		
9,950.0	9,842.3	9,848.5	9,838.1	26.6	27.9	135.48	-183.5	-169.0	257.2	219.3	37.84	6.796		
9,975.0	9,853.7	9,858.8	9,848.5	26.6	27.9	135.05	-184.0	-169.6	277.8	239.7	38.15	7.283		
10,000.0	9,863.8	9,868.0	9,857.6	26.6	28.0	133.95	-184.4	-170.1	299.3	260.8	38.44	7.785		
10,025.0	9,872.8	9,875.9	9,865.5	26.7	28.0	132.05	-184.7	-170.5	321.4	282.7	38.73	8.300		
10,050.0	9,880.5	9,882.5	9,872.1	26.7	28.0	129.16	-185.0	-170.9	344.2	305.2	39.00	8.826		
10,075.0	9,886.9	9,887.9	9,877.5	26.8	28.0	125.01	-185.3	-171.2	367.4	328.2	39.24	9.363		
10,100.0	9,892.1	9,892.0	9,881.6	26.9	28.1	119.25	-185.4	-171.4	391.1	351.6	39.47	9.908		
10,125.0	9,896.0	9,894.9	9,884.4	26.9	28.1	111.43	-185.6	-171.6	415.1	375.4	39.68	10.460		
10,150.0	9,898.6	9,896.4	9,885.9	27.0	28.1	101.21	-185.6	-171.6	439.2	399.4	39.87	11.018		
10,175.0	9,899.8	9,896.6	9,886.1	27.1	28.1	88.73	-185.6	-171.7	463.6	423.5	40.04	11.578		
10,187.1	9,900.0	9,896.2	9,885.8	27.2	28.1	82.16	-185.6	-171.6	475.4	435.2	40.11	11.850		
10,200.0	9,900.0	9,895.7	9,885.2	27.3	28.1	81.86	-185.6	-171.6	488.0	447.8	40.19	12.141		
10,300.0	9,900.0	9,891.4	9,880.9	27.8	28.1	79.57	-185.4	-171.4	586.0	545.3	40.71	14.394		
10,400.0	9,900.0	9,887.1	9,876.6	28.5	28.0	77.32	-185.2	-171.1	684.6	643.5	41.11	16.652		
10,500.0	9,900.0	9,882.8	9,872.3	29.3	28.0	75.12	-185.0	-170.9	783.5	742.1	41.43	18.911		
10,600.0	9,900.0	9,878.4	9,868.0	30.1	28.0	72.98	-184.8	-170.7	882.7	841.0	41.70	21.168		
10,700.0	9,900.0	9,874.1	9,863.7	31.1	28.0	70.89	-184.7	-170.4	982.0	940.0	41.93	23.422		

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 701H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 701H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 701H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 552H - Anderson Fed Com 552H - Anderson Fed Com 552H - Prelim 1											Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM											Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Rule Assigned:	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
0.0	0.0	0.0	0.0	0.0	0.0	89.32	1.6	132.1	132.1			
100.0	100.0	98.0	98.0	0.5	0.5	89.32	1.6	132.1	132.1	131.0	1.05	125.811
200.0	200.0	198.0	198.0	1.7	1.7	89.32	1.6	132.1	132.1	128.7	3.40	38.843
300.0	300.0	298.0	298.0	2.4	2.4	89.32	1.6	132.1	132.1	127.3	4.81	27.462
400.0	400.0	398.0	398.0	3.0	2.9	89.32	1.6	132.1	132.1	126.2	5.90	22.395
500.0	500.0	498.0	498.0	3.4	3.4	89.32	1.6	132.1	132.1	125.2	6.82	19.361
600.0	600.0	598.0	598.0	3.8	3.8	89.32	1.6	132.1	132.1	124.4	7.64	17.285
700.0	700.0	698.0	698.0	4.2	4.2	89.32	1.6	132.1	132.1	123.7	8.39	15.747
800.0	800.0	798.0	798.0	4.5	4.5	89.32	1.6	132.1	132.1	123.0	9.08	14.549
900.0	900.0	898.0	898.0	4.9	4.9	89.32	1.6	132.1	132.1	122.3	9.72	13.582
1,000.0	1,000.0	998.0	998.0	5.2	5.2	89.32	1.6	132.1	132.1	121.7	10.34	12.778
1,100.0	1,100.0	1,098.0	1,098.0	5.5	5.5	89.32	1.6	132.1	132.1	121.1	10.92	12.097
1,200.0	1,200.0	1,198.0	1,198.0	5.7	5.7	89.32	1.6	132.1	132.1	120.6	11.47	11.510
1,300.0	1,300.0	1,298.0	1,298.0	6.0	6.0	89.32	1.6	132.1	132.1	120.1	12.01	10.997
1,400.0	1,400.0	1,398.0	1,398.0	6.3	6.3	89.32	1.6	132.1	132.1	119.5	12.53	10.543
1,500.0	1,500.0	1,498.0	1,498.0	6.5	6.5	89.32	1.6	132.1	132.1	119.0	13.03	10.138
1,600.0	1,600.0	1,598.0	1,598.0	6.8	6.8	89.32	1.6	132.1	132.1	118.6	13.51	9.774
1,700.0	1,700.0	1,698.0	1,698.0	7.0	7.0	89.32	1.6	132.1	132.1	118.1	13.98	9.444
1,800.0	1,800.0	1,798.0	1,798.0	7.2	7.2	89.32	1.6	132.1	132.1	117.6	14.45	9.142
1,900.0	1,900.0	1,898.0	1,898.0	7.4	7.4	89.32	1.6	132.1	132.1	117.2	14.89	8.866
2,000.0	2,000.0	1,998.0	1,998.0	7.7	7.7	89.32	1.6	132.1	132.1	116.7	15.33	8.612
2,100.0	2,100.0	2,098.0	2,098.0	7.9	7.9	89.32	1.6	132.1	132.1	116.3	15.77	8.377
2,200.0	2,200.0	2,198.0	2,198.0	8.1	8.1	89.32	1.6	132.1	132.1	115.9	16.19	8.158
2,300.0	2,300.0	2,298.0	2,298.0	8.3	8.3	89.32	1.6	132.1	132.1	115.5	16.60	7.954
2,400.0	2,400.0	2,398.0	2,398.0	8.5	8.5	89.32	1.6	132.1	132.1	115.1	17.01	7.763
2,500.0	2,500.0	2,498.0	2,498.0	8.7	8.7	89.32	1.6	132.1	132.1	114.7	17.41	7.584
2,600.0	2,600.0	2,598.0	2,598.0	8.9	8.9	89.32	1.6	132.1	132.1	114.3	17.81	7.416
2,700.0	2,700.0	2,698.0	2,698.0	9.1	9.1	89.32	1.6	132.1	132.1	113.9	18.20	7.257
2,800.0	2,800.0	2,798.0	2,798.0	9.3	9.3	89.32	1.6	132.1	132.1	113.5	18.58	7.107
2,900.0	2,900.0	2,898.0	2,898.0	9.5	9.5	89.32	1.6	132.1	132.1	113.1	18.96	6.965
3,000.0	3,000.0	2,998.0	2,998.0	9.7	9.7	89.32	1.6	132.1	132.1	112.7	19.34	6.830
3,100.0	3,100.0	3,098.0	3,098.0	9.9	9.9	89.32	1.6	132.1	132.1	112.4	19.71	6.702
3,200.0	3,200.0	3,198.0	3,198.0	10.0	10.0	89.32	1.6	132.1	132.1	112.0	20.07	6.580
3,300.0	3,300.0	3,298.0	3,298.0	10.2	10.2	89.32	1.6	132.1	132.1	111.6	20.43	6.463
3,400.0	3,400.0	3,398.0	3,398.0	10.4	10.4	89.32	1.6	132.1	132.1	111.3	20.79	6.352
3,500.0	3,500.0	3,498.0	3,498.0	10.6	10.6	89.32	1.6	132.1	132.1	110.9	21.14	6.246
3,600.0	3,600.0	3,598.0	3,598.0	10.7	10.7	89.32	1.6	132.1	132.1	110.6	21.50	6.144
3,700.0	3,700.0	3,698.0	3,698.0	10.9	10.9	89.32	1.6	132.1	132.1	110.2	21.84	6.046
3,800.0	3,800.0	3,798.0	3,798.0	11.1	11.1	89.32	1.6	132.1	132.1	109.9	22.19	5.952
3,900.0	3,900.0	3,898.0	3,898.0	11.3	11.3	89.32	1.6	132.1	132.1	109.5	22.53	5.862
4,000.0	4,000.0	3,998.0	3,998.0	11.4	11.4	89.32	1.6	132.1	132.1	109.2	22.87	5.775
4,100.0	4,100.0	4,098.0	4,098.0	11.6	11.6	89.32	1.6	132.1	132.1	108.9	23.20	5.692
4,200.0	4,200.0	4,198.0	4,198.0	11.8	11.8	89.32	1.6	132.1	132.1	108.5	23.54	5.611
4,300.0	4,300.0	4,298.0	4,298.0	11.9	11.9	89.32	1.6	132.1	132.1	108.2	23.87	5.533
4,400.0	4,400.0	4,398.0	4,398.0	12.1	12.1	89.32	1.6	132.1	132.1	107.9	24.20	5.458
4,500.0	4,500.0	4,498.0	4,498.0	12.3	12.3	89.32	1.6	132.1	132.1	107.5	24.52	5.385
4,600.0	4,600.0	4,598.0	4,598.0	12.4	12.4	89.32	1.6	132.1	132.1	107.2	24.85	5.315
4,700.0	4,700.0	4,698.0	4,698.0	12.6	12.6	89.32	1.6	132.1	132.1	106.9	25.17	5.247
4,800.0	4,800.0	4,798.0	4,798.0	12.7	12.7	89.32	1.6	132.1	132.1	106.6	25.49	5.181
4,900.0	4,900.0	4,898.0	4,898.0	12.9	12.9	89.32	1.6	132.1	132.1	106.3	25.81	5.118
5,000.0	5,000.0	4,998.0	4,998.0	13.1	13.1	89.32	1.6	132.1	132.1	105.9	26.12	5.056 CC, ES, SF
5,100.0	5,100.0	5,096.0	5,096.0	13.2	13.2	-144.71	1.2	132.8	133.5	107.2	26.32	5.073

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 701H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 701H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 701H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 552H - Anderson Fed Com 552H - Anderson Fed Com 552H - Prelim 1													Offset Site Error: 0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.0	5,200.0	5,193.8	5,193.7	13.3	13.3	-144.87	0.2	135.0	137.9	111.4	26.50	5.206	
5,300.0	5,299.9	5,291.3	5,291.2	13.4	13.4	-145.09	-1.5	138.8	145.3	118.6	26.70	5.444	
5,400.0	5,399.7	5,388.5	5,388.2	13.5	13.5	-145.37	-3.9	144.0	155.7	128.8	26.92	5.783	
5,500.0	5,499.4	5,485.1	5,484.6	13.6	13.6	-145.67	-6.9	150.8	169.0	141.8	27.17	6.219	
5,513.2	5,512.5	5,497.8	5,497.2	13.6	13.7	-145.71	-7.3	151.7	170.9	143.7	27.20	6.285	
5,600.0	5,599.0	5,583.2	5,582.2	13.8	13.8	-146.01	-10.5	158.7	184.3	156.9	27.40	6.726	
5,700.0	5,698.6	5,682.0	5,680.7	13.9	14.0	-146.29	-14.1	166.7	199.7	172.0	27.71	7.204	
5,800.0	5,798.2	5,780.8	5,779.1	14.2	14.2	-146.54	-17.8	174.8	215.1	187.0	28.07	7.661	
5,900.0	5,897.8	5,879.6	5,877.5	14.4	14.4	-146.75	-21.4	182.8	230.4	202.0	28.46	8.098	
6,000.0	5,997.4	5,978.4	5,975.9	14.6	14.6	-146.94	-25.0	190.9	245.8	217.0	28.87	8.515	
6,100.0	6,097.0	6,077.2	6,074.3	14.9	14.9	-147.10	-28.7	198.9	261.2	231.9	29.31	8.913	
6,200.0	6,196.6	6,176.0	6,172.7	15.1	15.2	-147.25	-32.3	207.0	276.6	246.9	29.77	9.292	
6,300.0	6,296.2	6,274.8	6,271.1	15.4	15.4	-147.38	-36.0	215.0	292.0	261.8	30.26	9.651	
6,400.0	6,395.8	6,373.6	6,369.5	15.7	15.7	-147.50	-39.6	223.1	307.4	276.7	30.77	9.992	
6,500.0	6,495.4	6,472.5	6,467.9	16.0	16.1	-147.60	-43.2	231.1	322.8	291.5	31.30	10.315	
6,600.0	6,595.0	6,571.3	6,566.3	16.4	16.4	-147.70	-46.9	239.1	338.2	306.4	31.85	10.620	
6,700.0	6,694.6	6,670.1	6,664.7	16.7	16.7	-147.79	-50.5	247.2	353.6	321.2	32.42	10.909	
6,800.0	6,794.2	6,768.9	6,763.2	17.1	17.1	-147.87	-54.2	255.2	369.0	336.0	33.01	11.181	
6,900.0	6,893.8	6,867.7	6,861.6	17.4	17.4	-147.95	-57.8	263.3	384.4	350.8	33.61	11.438	
7,000.0	6,993.4	6,966.5	6,960.0	17.8	17.8	-148.01	-61.4	271.3	399.8	365.6	34.23	11.680	
7,100.0	7,093.0	7,065.3	7,058.4	18.2	18.1	-148.08	-65.1	279.4	415.2	380.4	34.87	11.908	
7,200.0	7,192.6	7,164.1	7,156.8	18.5	18.5	-148.14	-68.7	287.4	430.6	395.1	35.52	12.123	
7,300.0	7,292.2	7,262.9	7,255.2	18.9	18.9	-148.19	-72.4	295.5	446.1	409.9	36.19	12.326	
7,400.0	7,391.8	7,361.7	7,353.6	19.3	19.3	-148.24	-76.0	303.5	461.5	424.6	36.87	12.517	
7,500.0	7,491.4	7,460.5	7,452.0	19.7	19.7	-148.29	-79.6	311.6	476.9	439.3	37.56	12.696	
7,600.0	7,591.0	7,559.3	7,550.4	20.2	20.1	-148.34	-83.3	319.6	492.3	454.0	38.26	12.865	
7,700.0	7,690.5	7,658.1	7,648.8	20.6	20.5	-148.38	-86.9	327.7	507.7	468.7	38.98	13.025	
7,800.0	7,790.1	7,756.9	7,747.3	21.0	21.0	-148.42	-90.6	335.7	523.1	483.4	39.70	13.175	
7,900.0	7,889.7	7,855.7	7,845.7	21.4	21.4	-148.46	-94.2	343.7	538.5	498.1	40.44	13.316	
8,000.0	7,989.3	7,954.5	7,944.1	21.9	21.8	-148.49	-97.8	351.8	553.9	512.7	41.18	13.450	
8,100.0	8,088.9	8,053.3	8,042.5	22.3	22.2	-148.52	-101.5	359.8	569.3	527.4	41.94	13.575	
8,200.0	8,188.5	8,152.1	8,140.9	22.7	22.7	-148.56	-105.1	367.9	584.7	542.0	42.70	13.694	
8,300.0	8,288.1	8,251.0	8,239.3	23.2	23.1	-148.59	-108.8	375.9	600.1	556.7	43.47	13.806	
8,400.0	8,387.7	8,349.8	8,337.7	23.7	23.6	-148.61	-112.4	384.0	615.5	571.3	44.25	13.911	
8,500.0	8,487.3	8,448.6	8,436.1	24.1	24.0	-148.64	-116.0	392.0	630.9	585.9	45.03	14.011	
8,600.0	8,586.9	8,547.4	8,534.5	24.6	24.5	-148.67	-119.7	400.1	646.4	600.5	45.82	14.105	
8,700.0	8,686.5	8,646.2	8,632.9	25.0	24.9	-148.69	-123.3	408.1	661.8	615.1	46.62	14.194	
8,801.4	8,787.5	8,746.4	8,732.7	25.5	25.4	-148.72	-127.0	416.3	677.4	629.9	47.44	14.279	
8,900.0	8,885.8	8,843.9	8,829.9	26.0	25.9	-148.78	-130.6	424.2	691.9	643.6	48.23	14.346	
9,000.0	8,985.6	8,943.0	8,928.6	26.4	26.3	-148.76	-134.2	432.3	705.1	656.1	49.01	14.385	
9,100.0	9,085.5	9,042.3	9,027.5	26.8	26.8	-148.66	-137.9	440.4	716.8	667.0	49.78	14.400	
9,200.0	9,185.5	9,141.7	9,126.5	27.2	27.3	-148.49	-141.6	448.5	727.1	676.6	50.51	14.394	
9,300.0	9,285.4	9,241.3	9,225.7	27.5	27.8	-148.25	-145.2	456.6	735.9	684.7	51.18	14.378	
9,314.6	9,300.0	9,255.8	9,240.1	27.5	27.8	85.77	-145.8	457.8	737.0	685.8	51.25	14.380	
9,400.0	9,385.4	9,340.9	9,324.9	27.5	28.3	86.05	-148.9	464.7	743.8	692.1	51.66	14.396	
9,437.1	9,422.5	9,377.8	9,361.7	27.5	28.4	86.17	-150.3	467.7	746.7	694.8	51.83	14.405	
9,450.0	9,435.4	9,390.7	9,374.5	27.5	28.5	86.47	-150.7	468.7	747.7	695.8	51.89	14.409	
9,475.0	9,460.4	9,415.5	9,399.2	27.5	28.6	86.42	-151.7	470.8	749.6	697.6	52.00	14.416	
9,500.0	9,485.3	9,440.1	9,423.7	27.4	28.7	86.48	-152.6	472.8	751.4	699.3	52.10	14.424	
9,525.0	9,510.0	9,464.6	9,448.1	27.4	28.9	86.64	-153.5	474.8	753.2	701.0	52.19	14.431	
9,550.0	9,534.4	9,488.7	9,472.1	27.3	29.0	86.88	-154.4	476.7	754.9	702.6	52.28	14.439	
9,575.0	9,558.5	9,512.5	9,495.8	27.3	29.1	87.22	-155.2	478.7	756.6	704.3	52.37	14.448	

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 701H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 701H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 701H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 552H - Anderson Fed Com 552H - Anderson Fed Com 552H - Prelim 1													Offset Site Error:	0.0 usft	
Survey Program: 0-MWD+HRGM				Rule Assigned:										Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
9,600.0	9,582.3	9,535.9	9,519.1	27.2	29.2	87.62	-156.1	480.6	758.4	705.9	52.45	14.458			
9,625.0	9,605.6	9,558.8	9,541.9	27.1	29.3	88.09	-156.9	482.4	760.2	707.7	52.53	14.471			
9,650.0	9,628.5	9,581.2	9,564.2	27.1	29.4	88.61	-157.8	484.3	762.1	709.5	52.61	14.487			
9,675.0	9,650.7	9,602.9	9,585.9	27.0	29.5	89.16	-158.6	486.0	764.2	711.5	52.68	14.507			
9,700.0	9,672.4	9,624.0	9,606.9	26.9	29.6	89.73	-159.3	487.7	766.4	713.7	52.74	14.532			
9,725.0	9,693.3	9,644.4	9,627.1	26.9	29.7	90.31	-160.1	489.4	768.9	716.1	52.79	14.564			
9,750.0	9,713.5	9,663.9	9,646.6	26.8	29.8	90.87	-160.8	491.0	771.7	718.8	52.84	14.604			
9,775.0	9,732.9	9,682.7	9,665.3	26.8	29.9	91.41	-161.5	492.5	774.8	721.9	52.88	14.652			
9,800.0	9,751.5	9,700.5	9,683.1	26.7	30.0	91.91	-162.2	494.0	778.3	725.4	52.91	14.711			
9,825.0	9,769.2	9,717.5	9,700.0	26.7	30.1	92.34	-162.8	495.4	782.3	729.3	52.93	14.780			
9,850.0	9,785.9	9,733.4	9,715.8	26.7	30.2	92.70	-163.4	496.7	786.7	733.8	52.93	14.862			
9,875.0	9,801.6	9,748.3	9,730.7	26.6	30.2	92.97	-163.9	497.9	791.7	738.7	52.93	14.957			
9,900.0	9,816.3	9,762.2	9,744.5	26.6	30.3	93.14	-164.4	499.0	797.2	744.3	52.91	15.066			
9,925.0	9,829.9	9,775.0	9,757.2	26.6	30.4	93.18	-164.9	500.0	803.3	750.4	52.88	15.190			
9,950.0	9,842.3	9,786.6	9,768.8	26.6	30.4	93.10	-165.3	501.0	810.0	757.2	52.84	15.329			
9,975.0	9,853.7	9,797.0	9,779.2	26.6	30.5	92.87	-165.7	501.8	817.3	764.6	52.78	15.485			
10,000.0	9,863.8	9,806.3	9,788.4	26.6	30.5	92.49	-166.1	502.6	825.3	772.6	52.72	15.656			
10,025.0	9,872.8	9,814.3	9,796.4	26.7	30.6	91.94	-166.3	503.2	833.9	781.3	52.63	15.844			
10,050.0	9,880.5	9,821.1	9,803.2	26.7	30.6	91.23	-166.6	503.8	843.2	790.7	52.54	16.049			
10,075.0	9,886.9	9,826.6	9,808.7	26.8	30.6	90.33	-166.8	504.2	853.0	800.6	52.43	16.270			
10,100.0	9,892.1	9,830.9	9,812.9	26.9	30.6	89.26	-167.0	504.6	863.5	811.2	52.31	16.506			
10,125.0	9,896.0	9,833.8	9,815.8	26.9	30.7	88.00	-167.1	504.8	874.5	822.3	52.18	16.758			
10,150.0	9,898.6	9,835.5	9,817.5	27.0	30.7	86.57	-167.1	505.0	886.0	834.0	52.04	17.025			
10,175.0	9,899.8	9,835.8	9,817.8	27.1	30.7	84.95	-167.1	505.0	898.0	846.1	51.90	17.305			
10,187.1	9,900.0	9,835.5	9,817.5	27.2	30.7	84.11	-167.1	505.0	904.0	852.2	51.82	17.445			
10,200.0	9,900.0	9,835.0	9,817.1	27.3	30.7	84.08	-167.1	504.9	910.5	858.8	51.74	17.597			
10,300.0	9,900.0	9,831.3	9,813.3	27.8	30.7	83.80	-167.0	504.6	965.1	914.0	51.16	18.864			

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 701H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 701H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 701H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 601H - Anderson Fed Com 601H - Anderson Fed Com 601H - Prelim 1													Offset Site Error: 0.0 usft		
Survey Program: 0-MWD+HRGM				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)					
0.0	0.0	0.0	0.0	0.0	0.0	89.21	1.4	99.0	99.1						
100.0	100.0	99.0	99.0	0.5	0.5	89.21	1.4	99.0	99.0	98.0	1.06	93.885			
200.0	200.0	199.0	199.0	1.7	1.7	89.21	1.4	99.0	99.0	95.6	3.41	29.032			
300.0	300.0	299.0	299.0	2.4	2.4	89.21	1.4	99.0	99.0	94.2	4.82	20.567			
400.0	400.0	399.0	399.0	3.0	2.9	89.21	1.4	99.0	99.0	93.1	5.90	16.781			
500.0	500.0	499.0	499.0	3.4	3.4	89.21	1.4	99.0	99.0	92.2	6.83	14.511			
600.0	600.0	599.0	599.0	3.8	3.8	89.21	1.4	99.0	99.0	91.4	7.64	12.957			
700.0	700.0	699.0	699.0	4.2	4.2	89.21	1.4	99.0	99.0	90.7	8.39	11.805			
800.0	800.0	799.0	799.0	4.5	4.5	89.21	1.4	99.0	99.0	90.0	9.08	10.908			
900.0	900.0	899.0	899.0	4.9	4.9	89.21	1.4	99.0	99.0	89.3	9.73	10.183			
1,000.0	1,000.0	999.0	999.0	5.2	5.2	89.21	1.4	99.0	99.0	88.7	10.34	9.581			
1,100.0	1,100.0	1,099.0	1,099.0	5.5	5.5	89.21	1.4	99.0	99.0	88.1	10.92	9.070			
1,200.0	1,200.0	1,199.0	1,199.0	5.7	5.7	89.21	1.4	99.0	99.0	87.6	11.48	8.630			
1,300.0	1,300.0	1,299.0	1,299.0	6.0	6.0	89.21	1.4	99.0	99.0	87.0	12.01	8.246			
1,400.0	1,400.0	1,399.0	1,399.0	6.3	6.3	89.21	1.4	99.0	99.0	86.5	12.53	7.906			
1,500.0	1,500.0	1,499.0	1,499.0	6.5	6.5	89.21	1.4	99.0	99.0	86.0	13.03	7.602			
1,600.0	1,600.0	1,599.0	1,599.0	6.8	6.8	89.21	1.4	99.0	99.0	85.5	13.51	7.329			
1,700.0	1,700.0	1,699.0	1,699.0	7.0	7.0	89.21	1.4	99.0	99.0	85.1	13.99	7.082			
1,800.0	1,800.0	1,799.0	1,799.0	7.2	7.2	89.21	1.4	99.0	99.0	84.6	14.45	6.856			
1,900.0	1,900.0	1,899.0	1,899.0	7.4	7.4	89.21	1.4	99.0	99.0	84.2	14.90	6.649			
2,000.0	2,000.0	1,999.0	1,999.0	7.7	7.7	89.21	1.4	99.0	99.0	83.7	15.34	6.458			
2,100.0	2,100.0	2,099.0	2,099.0	7.9	7.9	89.21	1.4	99.0	99.0	83.3	15.77	6.282			
2,200.0	2,200.0	2,199.0	2,199.0	8.1	8.1	89.21	1.4	99.0	99.0	82.9	16.19	6.118			
2,300.0	2,300.0	2,299.0	2,299.0	8.3	8.3	89.21	1.4	99.0	99.0	82.4	16.61	5.965			
2,400.0	2,400.0	2,399.0	2,399.0	8.5	8.5	89.21	1.4	99.0	99.0	82.0	17.01	5.822			
2,500.0	2,500.0	2,499.0	2,499.0	8.7	8.7	89.21	1.4	99.0	99.0	81.6	17.42	5.688			
2,600.0	2,600.0	2,599.0	2,599.0	8.9	8.9	89.21	1.4	99.0	99.0	81.2	17.81	5.561			
2,700.0	2,700.0	2,699.0	2,699.0	9.1	9.1	89.21	1.4	99.0	99.0	80.8	18.20	5.442			
2,800.0	2,800.0	2,799.0	2,799.0	9.3	9.3	89.21	1.4	99.0	99.0	80.5	18.58	5.330			
2,900.0	2,900.0	2,899.0	2,899.0	9.5	9.5	89.21	1.4	99.0	99.0	80.1	18.96	5.223			
3,000.0	3,000.0	2,999.0	2,999.0	9.7	9.7	89.21	1.4	99.0	99.0	79.7	19.34	5.122			
3,100.0	3,100.0	3,099.0	3,099.0	9.9	9.9	89.21	1.4	99.0	99.0	79.3	19.71	5.026			
3,200.0	3,200.0	3,199.0	3,199.0	10.0	10.0	89.21	1.4	99.0	99.0	79.0	20.07	4.935			
3,300.0	3,300.0	3,299.0	3,299.0	10.2	10.2	89.21	1.4	99.0	99.0	78.6	20.43	4.847			
3,400.0	3,400.0	3,399.0	3,399.0	10.4	10.4	89.21	1.4	99.0	99.0	78.3	20.79	4.764			
3,500.0	3,500.0	3,499.0	3,499.0	10.6	10.6	89.21	1.4	99.0	99.0	77.9	21.15	4.684			
3,600.0	3,600.0	3,599.0	3,599.0	10.7	10.7	89.21	1.4	99.0	99.0	77.6	21.50	4.608			
3,700.0	3,700.0	3,699.0	3,699.0	10.9	10.9	89.21	1.4	99.0	99.0	77.2	21.84	4.534			
3,800.0	3,800.0	3,799.0	3,799.0	11.1	11.1	89.21	1.4	99.0	99.0	76.9	22.19	4.464			
3,900.0	3,900.0	3,899.0	3,899.0	11.3	11.3	89.21	1.4	99.0	99.0	76.5	22.53	4.396			
4,000.0	4,000.0	3,999.0	3,999.0	11.4	11.4	89.21	1.4	99.0	99.0	76.2	22.87	4.331			
4,100.0	4,100.0	4,099.0	4,099.0	11.6	11.6	89.21	1.4	99.0	99.0	75.8	23.21	4.268			
4,200.0	4,200.0	4,199.0	4,199.0	11.8	11.8	89.21	1.4	99.0	99.0	75.5	23.54	4.208			
4,300.0	4,300.0	4,299.0	4,299.0	11.9	11.9	89.21	1.4	99.0	99.0	75.2	23.87	4.150			
4,400.0	4,400.0	4,399.0	4,399.0	12.1	12.1	89.21	1.4	99.0	99.0	74.9	24.20	4.093			
4,500.0	4,500.0	4,499.0	4,499.0	12.3	12.3	89.21	1.4	99.0	99.0	74.5	24.52	4.039			
4,600.0	4,600.0	4,599.0	4,599.0	12.4	12.4	89.21	1.4	99.0	99.0	74.2	24.85	3.986			
4,700.0	4,700.0	4,699.0	4,699.0	12.6	12.6	89.21	1.4	99.0	99.0	73.9	25.17	3.935			
4,800.0	4,800.0	4,799.0	4,799.0	12.7	12.7	89.21	1.4	99.0	99.0	73.6	25.49	3.886			
4,900.0	4,900.0	4,899.0	4,899.0	12.9	12.9	89.21	1.4	99.0	99.0	73.2	25.81	3.838			
5,000.0	5,000.0	4,999.0	4,999.0	13.1	13.1	89.21	1.4	99.0	99.0	72.9	26.12	3.792 CC, ES			
5,100.0	5,100.0	5,099.0	5,099.0	13.2	13.2	-145.04	1.4	99.0	99.8	73.4	26.38	3.782 SF			

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



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 701H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 701H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 701H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 601H - Anderson Fed Com 601H - Anderson Fed Com 601H - Prelim 1													Offset Site Error: 0.0 usft	
Survey Program: 0-MWD+HRGM				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)				
5,200.0	5,200.0	5,199.0	5,199.0	13.3	13.4	-145.88	1.4	99.0	101.9	75.3	26.62	3.829		
5,300.0	5,299.9	5,298.9	5,298.9	13.4	13.5	-147.18	1.4	99.0	105.6	78.7	26.87	3.928		
5,400.0	5,399.7	5,398.7	5,398.7	13.5	13.7	-148.87	1.4	99.0	110.7	83.6	27.14	4.080		
5,500.0	5,499.4	5,498.4	5,498.4	13.6	13.8	-150.81	1.4	99.0	117.5	90.1	27.43	4.285		
5,513.2	5,512.5	5,511.5	5,511.5	13.6	13.9	-151.08	1.4	99.0	118.5	91.1	27.46	4.318		
5,600.0	5,599.0	5,598.0	5,598.0	13.8	14.0	-152.79	1.4	99.0	125.4	97.7	27.70	4.528		
5,700.0	5,698.6	5,699.6	5,699.6	13.9	14.1	-154.40	0.8	98.4	132.7	104.7	27.96	4.746		
5,800.0	5,798.2	5,801.5	5,801.4	14.2	14.2	-155.49	-0.9	96.3	138.5	110.3	28.22	4.908		
5,900.0	5,897.8	5,903.6	5,903.5	14.4	14.3	-156.15	-3.8	92.9	142.8	114.3	28.51	5.008		
6,000.0	5,997.4	6,004.7	6,004.3	14.6	14.3	-156.49	-7.7	88.3	145.7	116.9	28.78	5.064		
6,100.0	6,097.0	6,104.6	6,104.1	14.9	14.4	-156.77	-11.6	83.5	148.4	119.3	29.12	5.098		
6,200.0	6,196.6	6,204.6	6,203.9	15.1	14.6	-157.04	-15.6	78.8	151.2	121.7	29.50	5.126		
6,300.0	6,296.2	6,304.5	6,303.6	15.4	14.7	-157.31	-19.5	74.1	153.9	124.0	29.91	5.147		
6,400.0	6,395.8	6,404.5	6,403.4	15.7	14.9	-157.56	-23.5	69.4	156.7	126.3	30.34	5.164		
6,500.0	6,495.4	6,504.5	6,503.2	16.0	15.1	-157.81	-27.4	64.6	159.4	128.6	30.80	5.176		
6,600.0	6,595.0	6,604.4	6,603.0	16.4	15.3	-158.04	-31.4	59.9	162.2	130.9	31.29	5.184		
6,700.0	6,694.6	6,704.4	6,702.7	16.7	15.5	-158.27	-35.3	55.2	164.9	133.2	31.80	5.188		
6,800.0	6,794.2	6,804.3	6,802.5	17.1	15.8	-158.49	-39.3	50.5	167.7	135.4	32.33	5.188		
6,900.0	6,893.8	6,904.3	6,902.3	17.4	16.0	-158.71	-43.2	45.7	170.5	137.6	32.88	5.184		
7,000.0	6,993.4	7,004.3	7,002.0	17.8	16.3	-158.92	-47.2	41.0	173.2	139.8	33.46	5.178		
7,100.0	7,093.0	7,104.2	7,101.8	18.2	16.5	-159.12	-51.2	36.3	176.0	142.0	34.05	5.169		
7,200.0	7,192.6	7,204.2	7,201.6	18.5	16.8	-159.31	-55.1	31.6	178.8	144.1	34.66	5.157		
7,300.0	7,292.2	7,304.1	7,301.3	18.9	17.1	-159.50	-59.1	26.8	181.5	146.2	35.30	5.143		
7,400.0	7,391.8	7,404.1	7,401.1	19.3	17.4	-159.68	-63.0	22.1	184.3	148.4	35.94	5.128		
7,500.0	7,491.4	7,504.1	7,500.9	19.7	17.7	-159.86	-67.0	17.4	187.1	150.5	36.61	5.110		
7,600.0	7,591.0	7,604.0	7,600.7	20.2	18.0	-160.03	-70.9	12.7	189.9	152.6	37.29	5.091		
7,700.0	7,690.5	7,704.0	7,700.4	20.6	18.3	-160.20	-74.9	7.9	192.6	154.7	37.99	5.071		
7,800.0	7,790.1	7,803.9	7,800.2	21.0	18.6	-160.36	-78.8	3.2	195.4	156.7	38.70	5.050		
7,900.0	7,889.7	7,903.9	7,900.0	21.4	19.0	-160.52	-82.8	-1.5	198.2	158.8	39.42	5.028		
8,000.0	7,989.3	8,003.9	7,999.7	21.9	19.3	-160.68	-86.7	-6.2	201.0	160.8	40.16	5.005		
8,100.0	8,088.9	8,103.8	8,099.5	22.3	19.7	-160.83	-90.7	-11.0	203.8	162.9	40.90	4.982		
8,200.0	8,188.5	8,203.8	8,199.3	22.7	20.0	-160.97	-94.6	-15.7	206.6	164.9	41.66	4.958		
8,300.0	8,288.1	8,303.7	8,299.0	23.2	20.4	-161.11	-98.6	-20.4	209.3	166.9	42.44	4.933		
8,400.0	8,387.7	8,403.7	8,398.8	23.7	20.8	-161.25	-102.6	-25.1	212.1	168.9	43.22	4.908		
8,500.0	8,487.3	8,503.7	8,498.6	24.1	21.1	-161.39	-106.5	-29.9	214.9	170.9	44.01	4.884		
8,600.0	8,586.9	8,603.6	8,598.4	24.6	21.5	-161.52	-110.5	-34.6	217.7	172.9	44.81	4.859		
8,700.0	8,686.5	8,703.6	8,698.1	25.0	21.9	-161.64	-114.4	-39.3	220.5	174.9	45.62	4.834		
8,801.4	8,787.5	8,804.9	8,799.3	25.5	22.3	-161.77	-118.4	-44.1	223.3	176.9	46.45	4.808		
8,900.0	8,885.8	8,903.5	8,897.7	26.0	22.7	-161.83	-122.3	-48.8	225.3	178.0	47.24	4.769		
9,000.0	8,985.6	9,003.5	8,997.5	26.4	23.1	-161.75	-126.3	-53.5	225.6	177.6	48.01	4.699		
9,100.0	9,085.5	9,103.5	9,097.3	26.8	23.5	-161.52	-130.2	-58.2	224.3	175.5	48.74	4.602		
9,200.0	9,185.5	9,203.4	9,197.0	27.2	23.9	-161.14	-134.2	-62.9	221.3	171.9	49.40	4.480		
9,300.0	9,285.4	9,303.3	9,296.7	27.5	24.3	-160.59	-138.1	-67.7	216.7	166.7	49.96	4.337		
9,314.6	9,300.0	9,317.8	9,311.2	27.5	24.3	73.48	-138.7	-68.4	215.9	165.9	50.01	4.317		
9,400.0	9,385.4	9,403.1	9,396.3	27.5	24.7	74.05	-142.1	-72.4	211.1	160.8	50.28	4.198		
9,437.1	9,422.5	9,440.1	9,433.3	27.5	24.8	74.30	-143.6	-74.1	209.0	158.6	50.38	4.148		
9,450.0	9,435.4	9,453.0	9,446.1	27.5	24.9	74.89	-144.1	-74.7	208.2	157.8	50.40	4.131		
9,475.0	9,460.4	9,477.9	9,471.0	27.5	25.0	75.63	-145.0	-75.9	206.5	156.1	50.39	4.098		
9,500.0	9,485.3	9,502.6	9,495.6	27.4	25.1	76.76	-146.0	-77.1	204.4	154.1	50.29	4.065		
9,525.0	9,510.0	9,527.1	9,520.1	27.4	25.2	78.27	-147.0	-78.2	202.2	152.1	50.12	4.034		
9,550.0	9,534.4	9,551.3	9,544.2	27.3	25.3	80.17	-148.0	-79.4	199.8	149.9	49.85	4.008		
9,575.0	9,558.5	9,575.1	9,568.0	27.3	25.4	82.44	-148.9	-80.5	197.4	147.9	49.48	3.989		

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 701H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 701H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 701H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 601H - Anderson Fed Com 601H - Anderson Fed Com 601H - Prelim 1													Offset Site Error:	0.0 usft	
Survey Program: 0-MWD+HRGM				Rule Assigned:										Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
9,600.0	9,582.3	9,598.5	9,591.4	27.2	25.5	85.04	-149.8	-81.6	195.1	146.1	49.00	3.983			
9,625.0	9,605.6	9,621.5	9,614.3	27.1	25.6	87.93	-150.7	-82.7	193.2	144.8	48.38	3.993			
9,650.0	9,628.5	9,643.8	9,636.6	27.1	25.7	91.05	-151.6	-83.8	191.8	144.1	47.62	4.027			
9,675.0	9,650.7	9,665.6	9,658.3	27.0	25.8	94.33	-152.5	-84.8	191.1	144.4	46.71	4.090			
9,681.4	9,656.4	9,671.1	9,663.8	27.0	25.8	95.19	-152.7	-85.0	191.0	144.6	46.46	4.112			
9,700.0	9,672.4	9,686.7	9,679.4	26.9	25.9	97.69	-153.3	-85.8	191.3	145.7	45.67	4.189			
9,725.0	9,693.3	9,707.1	9,699.7	26.9	26.0	101.03	-154.1	-86.8	192.8	148.3	44.52	4.331			
9,750.0	9,713.5	9,726.7	9,719.3	26.8	26.0	104.27	-154.9	-87.7	195.6	152.3	43.29	4.519			
9,775.0	9,732.9	9,745.5	9,738.0	26.8	26.1	107.33	-155.6	-88.6	200.0	158.0	42.05	4.756			
9,800.0	9,751.5	9,763.3	9,755.9	26.7	26.2	110.13	-156.3	-89.4	206.1	165.2	40.87	5.044			
9,825.0	9,769.2	9,780.3	9,772.8	26.7	26.3	112.62	-157.0	-90.2	214.0	174.2	39.79	5.377			
9,850.0	9,785.9	9,796.2	9,788.7	26.7	26.3	114.75	-157.6	-91.0	223.6	184.7	38.87	5.752			
9,875.0	9,801.6	9,811.1	9,803.6	26.6	26.4	116.48	-158.2	-91.7	234.9	196.8	38.12	6.162			
9,900.0	9,816.3	9,825.0	9,817.4	26.6	26.5	117.79	-158.8	-92.3	247.9	210.3	37.57	6.599			
9,925.0	9,829.9	9,837.7	9,830.1	26.6	26.5	118.64	-159.3	-92.9	262.5	225.3	37.19	7.057			
9,950.0	9,842.3	9,849.3	9,841.7	26.6	26.6	119.01	-159.7	-93.5	278.4	241.5	36.96	7.533			
9,975.0	9,853.7	9,859.8	9,852.1	26.6	26.6	118.85	-160.2	-94.0	295.7	258.8	36.85	8.023			
10,000.0	9,863.8	9,869.0	9,861.3	26.6	26.6	118.13	-160.5	-94.4	314.1	277.2	36.84	8.525			
10,025.0	9,872.8	9,877.0	9,869.3	26.7	26.7	116.78	-160.8	-94.8	333.5	296.6	36.90	9.038			
10,050.0	9,880.5	9,883.8	9,876.1	26.7	26.7	114.73	-161.1	-95.1	353.8	316.8	37.01	9.560			
10,075.0	9,886.9	9,889.2	9,881.5	26.8	26.7	111.88	-161.3	-95.4	374.9	337.7	37.15	10.091			
10,100.0	9,892.1	9,893.4	9,885.7	26.9	26.8	108.14	-161.5	-95.6	396.6	359.3	37.31	10.630			
10,125.0	9,896.0	9,896.4	9,888.6	26.9	26.8	103.40	-161.6	-95.7	418.8	381.3	37.47	11.176			
10,150.0	9,898.6	9,898.0	9,890.2	27.0	26.8	97.62	-161.7	-95.8	441.4	403.8	37.64	11.726			
10,175.0	9,899.8	9,898.3	9,890.5	27.1	26.8	90.81	-161.7	-95.8	464.4	426.5	37.81	12.280			
10,187.1	9,900.0	9,898.0	9,890.2	27.2	26.8	87.20	-161.7	-95.8	475.5	437.6	37.89	12.549			
10,200.0	9,900.0	9,897.4	9,889.7	27.3	26.8	87.04	-161.6	-95.7	487.5	449.5	37.98	12.837			
10,300.0	9,900.0	9,893.5	9,885.8	27.8	26.8	85.80	-161.5	-95.6	581.6	543.0	38.59	15.071			
10,400.0	9,900.0	9,889.6	9,881.9	28.5	26.7	84.57	-161.3	-95.4	677.4	638.3	39.12	17.315			
10,500.0	9,900.0	9,885.7	9,878.0	29.3	26.7	83.34	-161.2	-95.2	774.2	734.7	39.57	19.568			
10,600.0	9,900.0	9,881.7	9,874.1	30.1	26.7	82.12	-161.0	-95.0	871.7	831.8	39.94	21.825			
10,700.0	9,900.0	9,877.8	9,870.1	31.1	26.7	80.91	-160.9	-94.8	969.8	929.5	40.27	24.084			

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

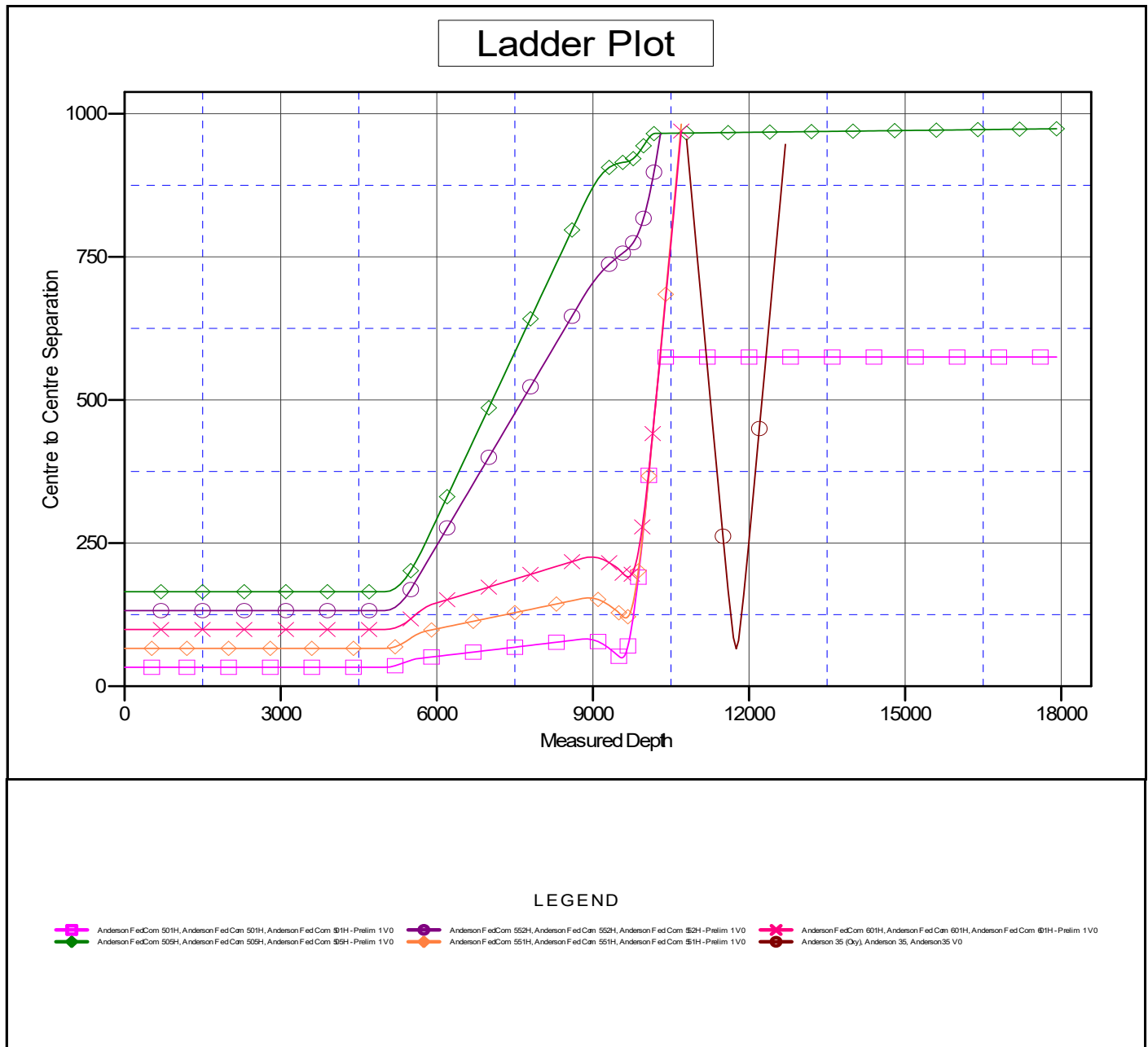


Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 701H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 701H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 701H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 701H - Prelim 1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 3724.5usft (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 701H
 Coordinate System is US State Plane 1983, New Mexico Eastern Zone
 Grid Convergence at Surface is: 0.37°



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



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 701H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
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Reference Design:	Anderson Fed Com 701H - Prelim 1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 3724.5usft (Original Well Ele

Offset Depths are relative to Offset Datum

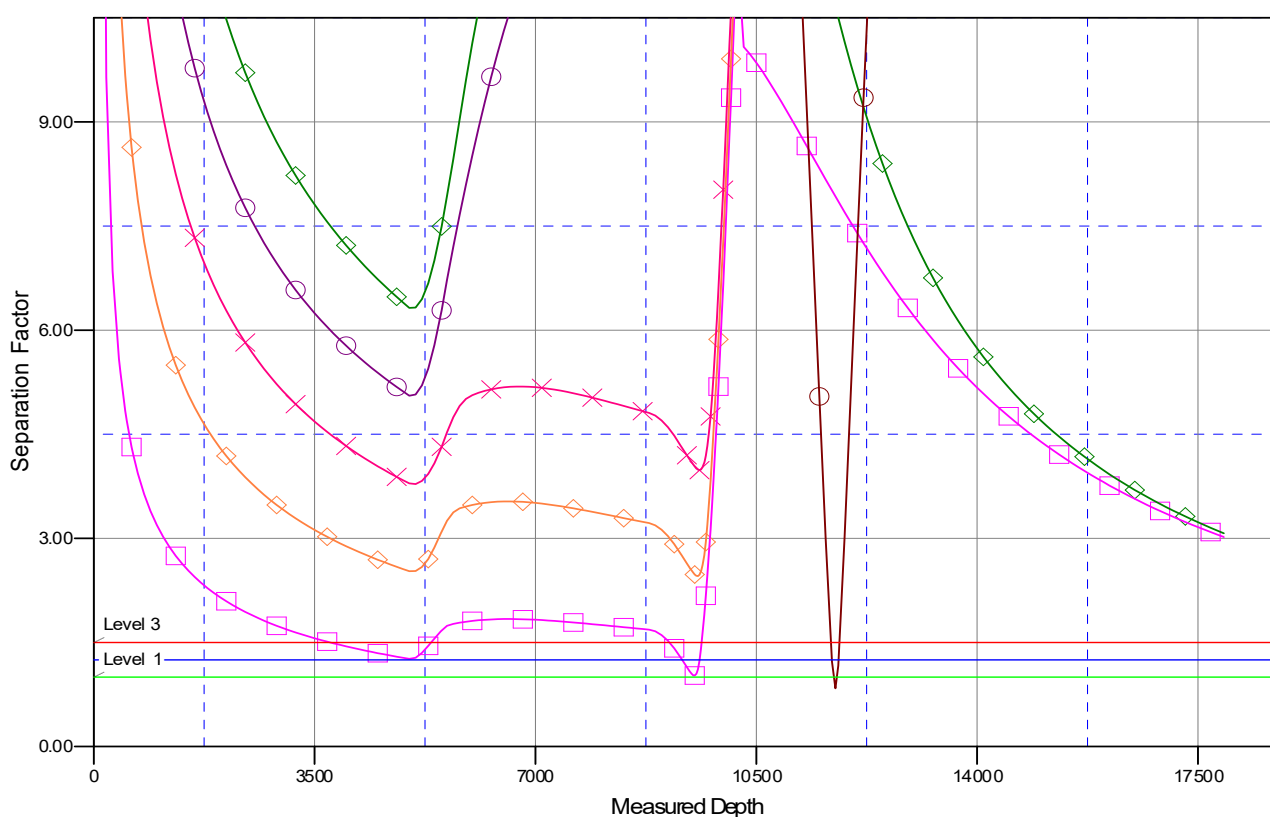
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Anderson Fed Com 701H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.37°

Separation Factor Plot



LEGEND

■ Anderson FedCom 501H, Anderson Fed Com 501H, Anderson Fed Com 501H - Prelim 1 V0
 ■ Anderson FedCom 552H, Anderson Fed Com 552H, Anderson Fed Com 552H - Prelim 1 V0
 × Anderson FedCom 601H, Anderson Fed Com 601H, Anderson Fed Com 601H - Prelim 1 V0
◆ Anderson FedCom 509H, Anderson Fed Com 509H, Anderson Fed Com 509H - Prelim 1 V0
 ◆ Anderson FedCom 551H, Anderson Fed Com 551H, Anderson Fed Com 551H - Prelim 1 V0
 ○ Anderson 35 (Oxy), Anderson 35, Anderson 35 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 62838

CONDITIONS

Operator: ADVANCE ENERGY PARTNERS HAT MESA, LLC 11490 Westheimer Rd., Ste 950 Houston, TX 77077	OGRID: 372417
	Action Number: 62838
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

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