

Well Name: ANDERSON FED COM	Well Location: T22S / R32E / SEC 2 / LOT 2 / 32.427557 / -103.644128	County or Parish/State: LEA / NM
Well Number: 703H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM120905	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002549483	Well Status: Drilling Well	Operator: ADVANCE ENERGY PARTNERS HAT MESA LLC

Notice of Intent

Sundry ID: 2641600

Type of Submission: Notice of Intent	Type of Action: Other
Date Sundry Submitted: 10/26/2021	Time Sundry Submitted: 12:08
Date proposed operation will begin: 11/01/2021	

Procedure Description: Request to move the Surface Hole Location from 180' FNL & 2248' FEL, Section 2, T-22-S, R-32-E, Lot 2 to 180' FNL & 2281' FEL, Section 2, T-22-S, R-32-E, Lot 2. Request to move the Bottom Hole Location 1220' FSL & 1650' FEL, Section 26, T-21-S, R-32-E, SWSE to 1220' FSL & 2178' FEL, Section 26, T-21-S, R-32-E, SWSE. Please see attached drill plan, directional plan, and plats for detailed information regarding changes to casing, cement, and mud programs.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

Anderson_703H_SHL_BHL_etc_Sundry_Attachment_20211026120651.pdf

Received by OCD: 11/16/2021 12:54:45 PM

Page 2 of 44

Well Name: ANDERSON FED COM	Well Location: T22S / R32E / SEC 2 / LOT 2 / 32.427557 / -103.644128	County or Parish/State: LEA / NM
Well Number: 703H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM120905	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002549483	Well Status: Drilling Well	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: OCT 26, 2021 12:07 PM
Name: ADVANCE ENERGY PARTNERS HAT MESA LLC	
Title: President	
Street Address: 37 VERANO LOOP	
City: SANTA FE	State: NM
Phone: (505) 466-8120	
Email address: AFMSS@PERMITSWEST.COM	

Field Representative

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

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5752342234	BLM POC Email Address: cwalls@blm.gov
Disposition: Approved	Disposition Date: 11/12/2021
Signature: Chris Walls	

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

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

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

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised August 4, 2011

Submit one copy to appropriate
District Office

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-49483	Pool Code 98033	Pool Name WC-025 G-10 S2133280; Wolfcamp
Property Code 326484	Property Name ANDERSON FED COM	Well Number 703H
OGRID No. 372417	Operator Name ADVANCE ENERGY PARTNERS HAT MESA, LLC	Elevation 3667'

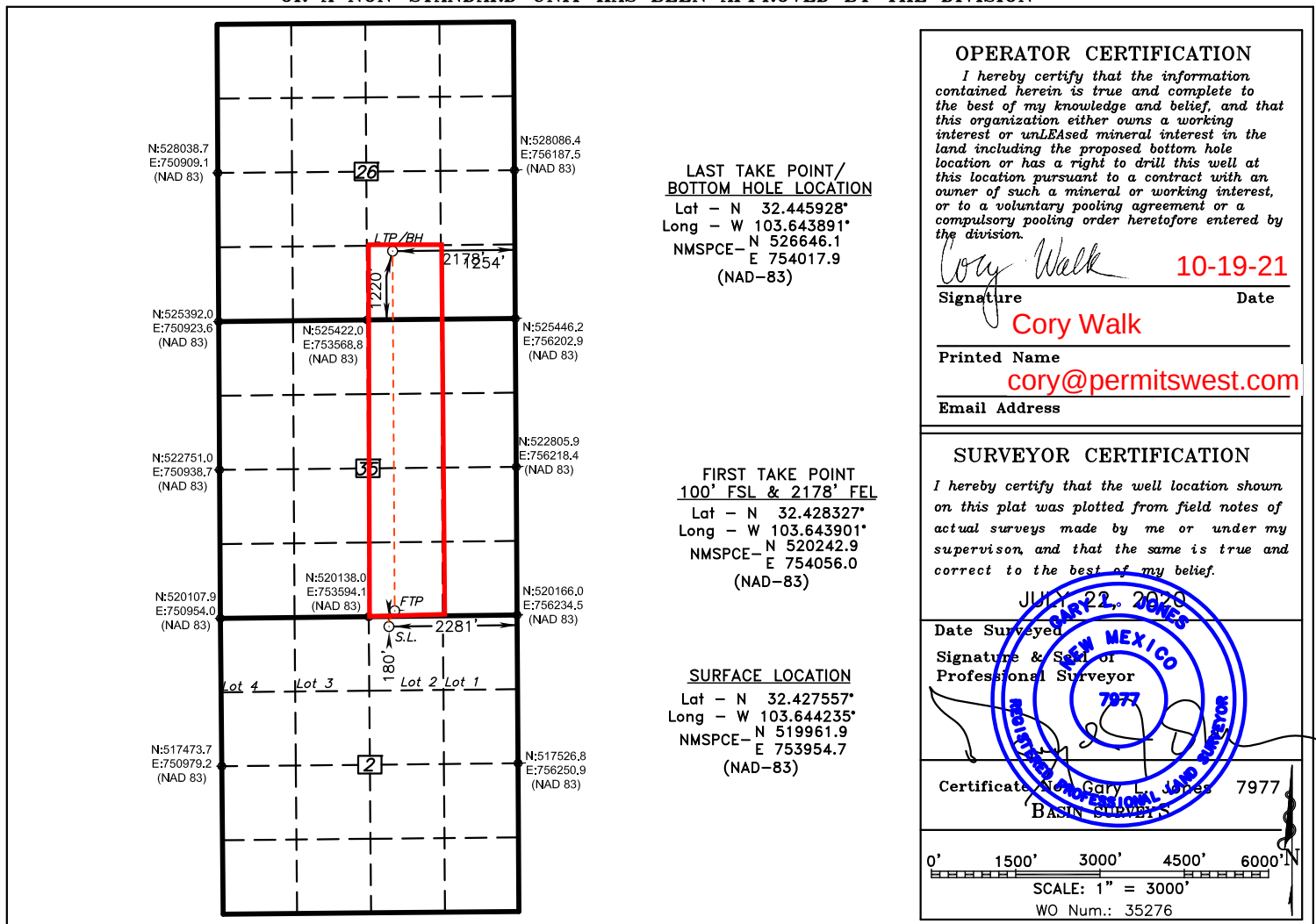
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	SOUTH/South line	Feet from the	East/West line	County
LOT 2	2	22 S	32 E		180	NORTH	2281	EAST	LEA

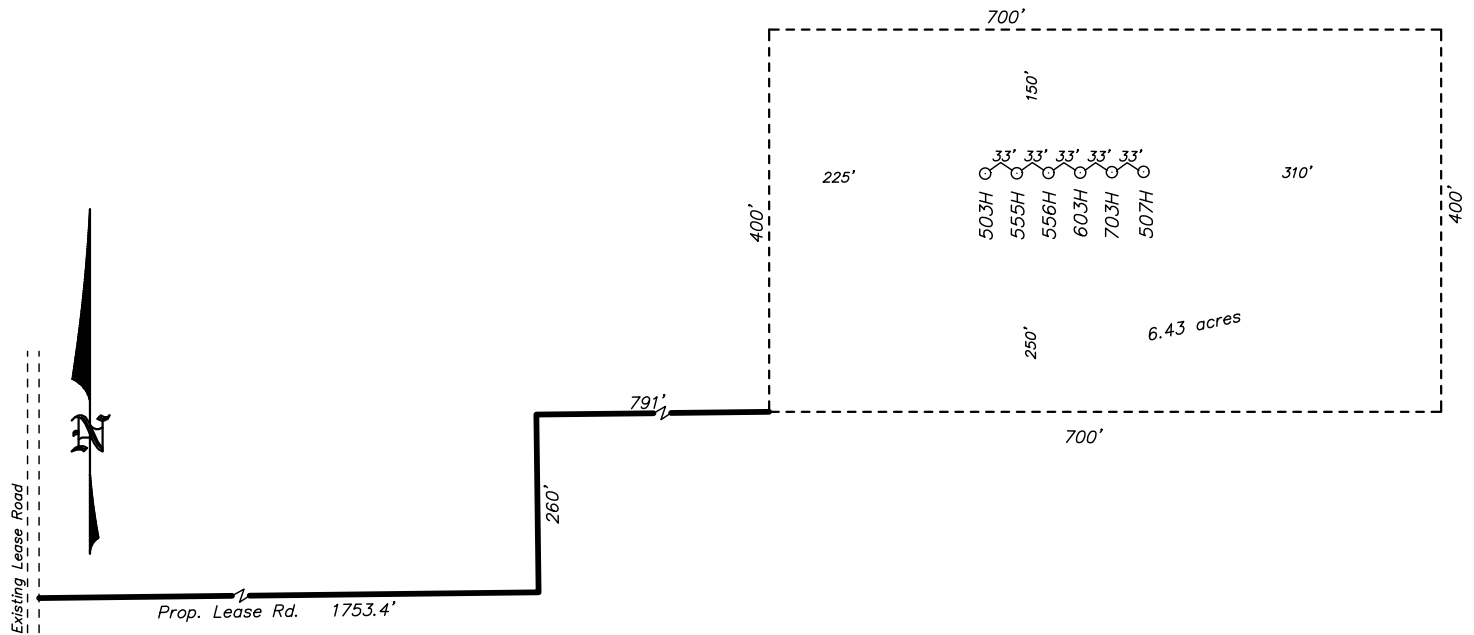
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	SOUTH/South line	Feet from the	East/West line	County
O	26	21 S	32 E		1220	SOUTH	2178	EAST	LEA
Dedicated Acres 200.00	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 703H**

ELEV. - 3667'

Lat - N 32.427557°

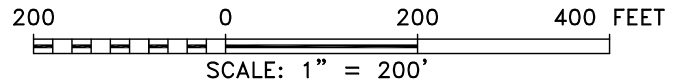
Long - W 103.644235°

NMSPCE - N 519961.9

E 753954.7

(NAD-83)

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



**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

ADVANCE ENERGY PARTNERS HAT MESA, LLC

REF: ANDERSON FED COM 703H / WELL PAD TOPO

THE ANDERSON FED COM 703H LOCATED 180' FROM
THE NORTH LINE AND 2281' FROM THE EAST LINE OF
SECTION 2, TOWNSHIP 22 SOUTH, RANGE 32 EAST.

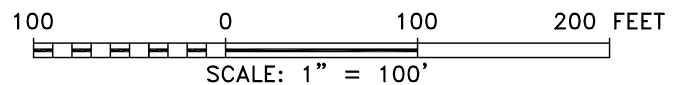
N.M.P.M., LEA COUNTY, NEW MEXICO.

W.O. Number: 35276 Drawn By: K. GOAD Date: 07-23-2020 Survey Date: 07-22-2020 Sheet 1 of 1 Sheets

Site plan of the proposed 6.43-acre development. The plan shows a rectangular area with dimensions 700' by 400'. A north arrow is located in the top left corner. The plan includes a central road labeled '225'' and a series of six small circular structures labeled '503H', '555H', '556H', '603H', '703H', and '507H'. Distances between these structures are marked as 33', 33', 33', 33', and 33'. A larger distance of 150' is marked between the central road and the structures. A distance of 310' is marked from the right edge to the structures. A distance of 250' is marked from the bottom edge to the structures. The total area is labeled '6.43 acres'.



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



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

W.O. Number: 35276	Drawn By: K. GOAD	Date: 07-23-2020	Survey Date: 07-22-2020	Sheet 1 of 1 Sheets
--------------------	-------------------	------------------	-------------------------	---------------------

CHANGE TO PLANS

Move Surface Hole Location

From: 180' FNL & 2248' FEL, Section 2, T-22-S, R-32-E, Lot 2

To: 180' FNL & 2281' FEL, Section 2, T-22-S, R-32-E, Lot 2

Move First Take Point

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

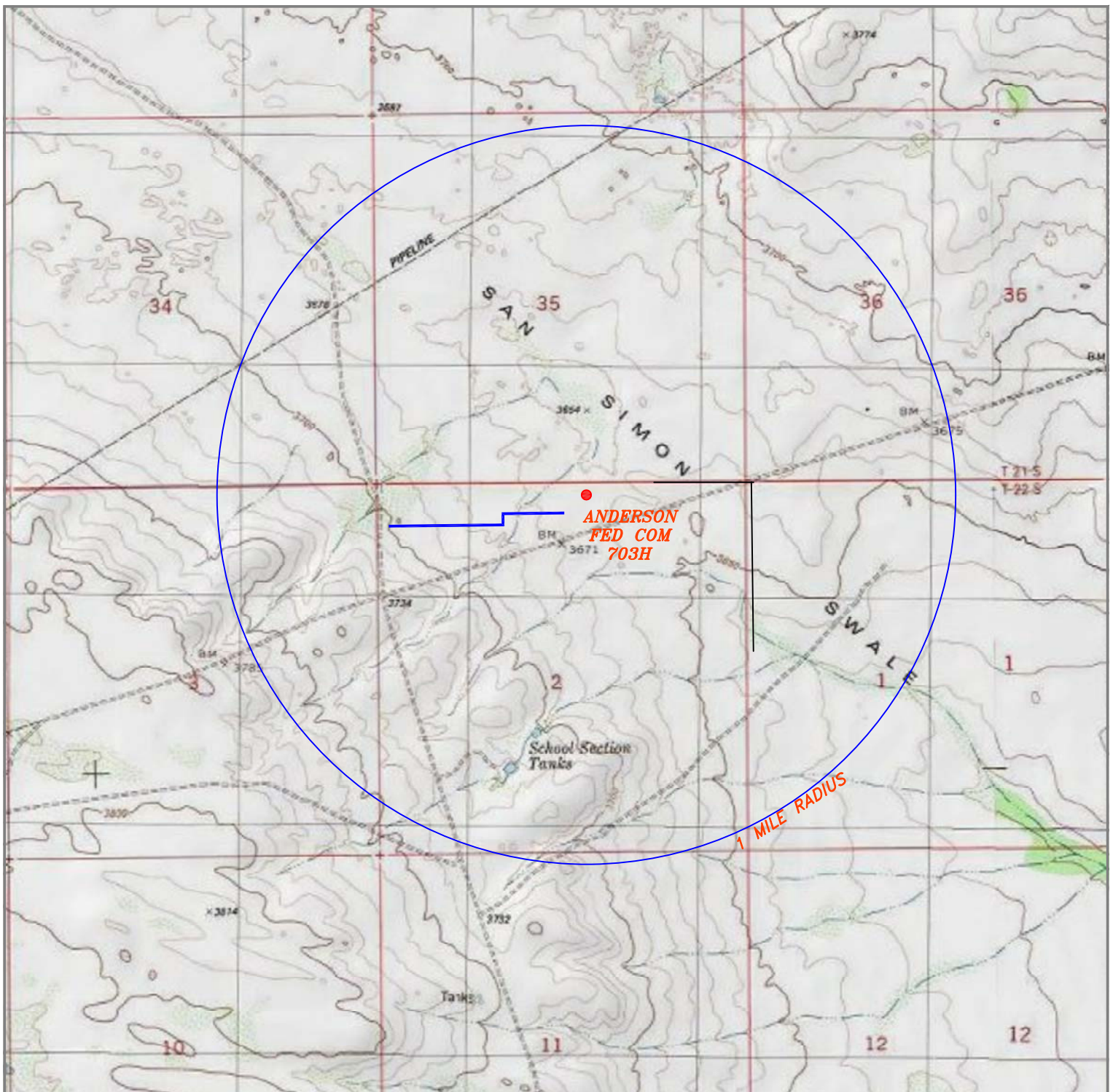
To: 100' FSL & 2178' FEL, Section 35, T-21-S, R-32-E, SWSE

Move Bottom Hole Location

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

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

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



ANDERSON FED COM 703H

Located 180' FNL and 2281' FEL
 Section 2, Township 22 South, Range 32 East,
 N.M.P.M., Lea County, New Mexico.



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

0' 1000' 2000' 3000' 1500'
 SCALE: 1" = 2000'

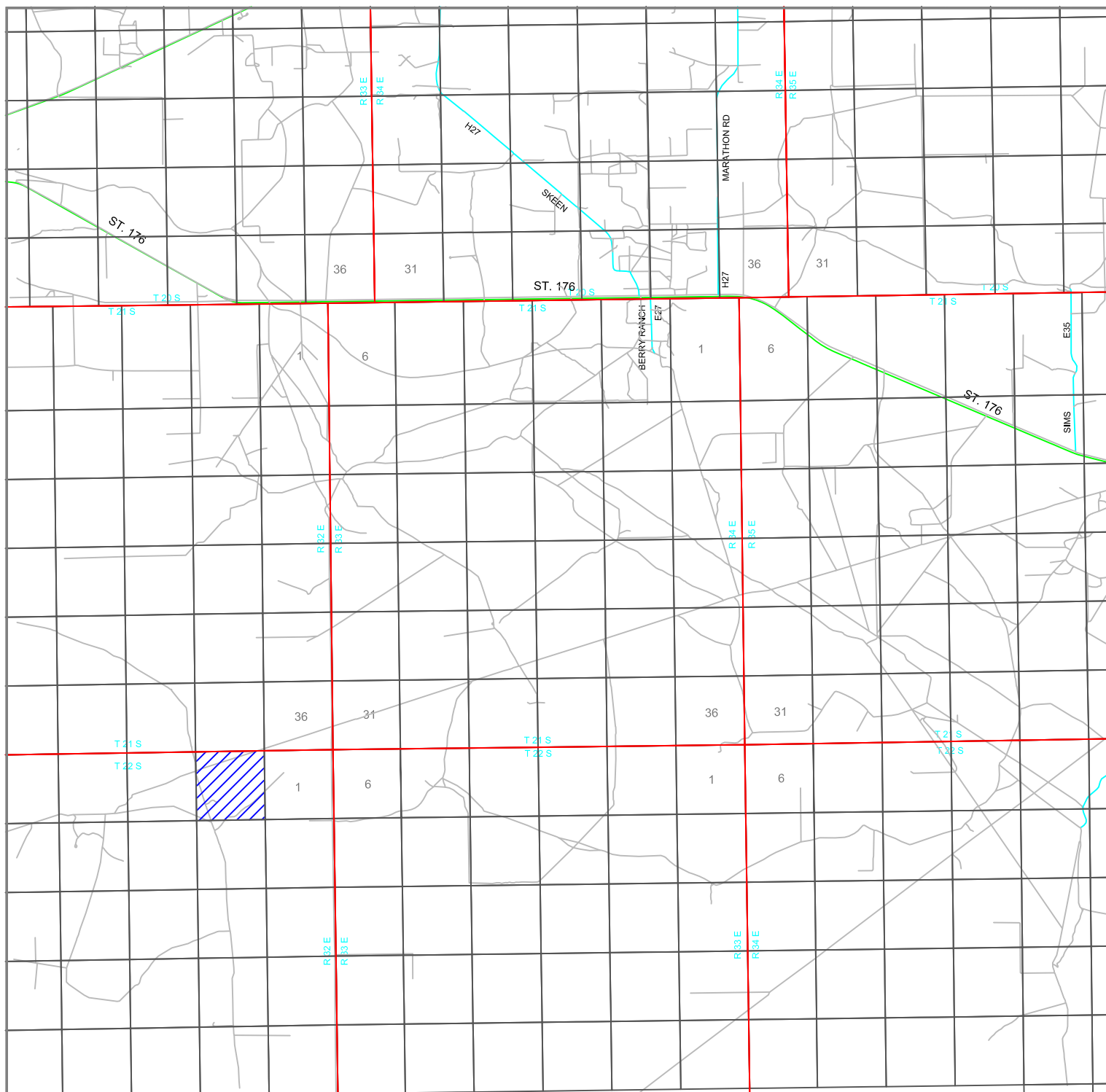
W.O. Number: KJG 35276

Survey Date: 07-22-2020

YELLOW TINT - USA LAND
 BLUE TINT - STATE LAND
 NATURAL COLOR - FEE LAND



**ADVANCE
 ENERGY
 PARTNERS HAT
 MESA, LLC**



ANDERSON FED COM 703H

Located 180' FNL and 2281' FEL
 Section 2, Township 22 South, Range 32 East,
 N.M.P.M., Lea County, New Mexico.



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

0 1 MI 2 MI 3 MI 4 MI

SCALE: 1" = 2 MILES

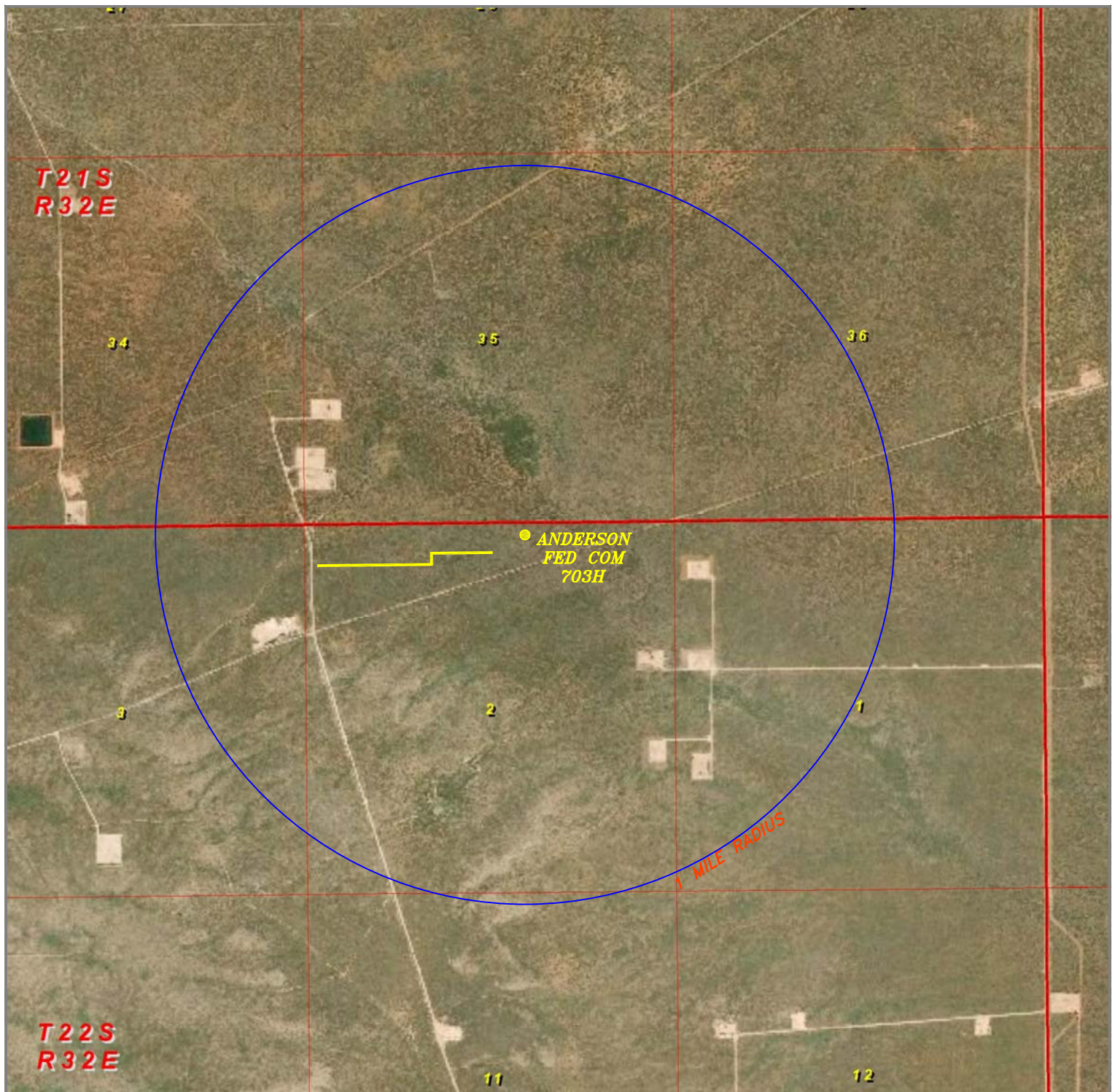
W.O. Number: KJG 35276

Survey Date: 07-22-2020

YELLOW TINT - USA LAND
 BLUE TINT - STATE LAND
 NATURAL COLOR - FEE LAND



**ADVANCE
 ENERGY
 PARTNERS HAT
 MESA, LLC**



ANDERSON FED COM 703H

Located 180' FNL and 2281' FEL
Section 2, Township 22 South, Range 32 East,
N.M.P.M., Lea County, New Mexico.



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

0' 1000' 2000' 3000' 1500'
SCALE: 1" = 2000'

W.O. Number: KJG 35276

Survey Date: 07-22-2020

YELLOW TINT - USA LAND
BLUE TINT - STATE LAND
NATURAL COLOR - FEE LAND



**ADVANCE
ENERGY
PARTNERS HAT
MESA, LLC**

**Advance Energy Partners Hat Mesa, LLC
 Anderson Fed Com 703H
 SHL 180' FNL & 2281' FEL Section 2, T22S, R32E
 BHL 1220' FSL & 2178' FEL Section 26, T21S, R32E
 Lea County, NM**

DRILL PLAN PAGE 1Drilling Program1. ESTIMATED TOPS

Formation Name	TVD	MD	Bearing
Quaternary caliche	000'	000'	water
Rustler anhydrite (surface csg set @ 1189')	1164'	1164'	N/A
Salado salt	1302'	1302'	Salt
Bell Canyon sandstone	4742'	4742'	N/A
Lower Brushy Canyon sandstone	8389'	8406'	hydrocarbons
Bone Spring Lime	8749'	8769'	hydrocarbons
Avalon shale	8909'	8930'	Hydrocarbons
1 st Bone Spring sandstone	9776'	9804'	hydrocarbons
2 nd Bone Spring sandstone (Int csg set @ TVD 10600')	10374'	10406'	hydrocarbons
3 rd Bone Spring carbonate	10942'	10978'	hydrocarbons
3 rd Bone Spring sandstone	11509'	11546'	hydrocarbons
KOP	11573'	11609'	hydrocarbons
Wolfcamp carbonate	11859'	11916'	hydrocarbons
TD	12050'	18771'	hydrocarbons

2. NOTABLE ZONES

Wolfcamp carbonate is the goal. Closest water well (CP 02821) is 2.48 miles southwest. Depth to water was reported at 410' in the 540' 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 703H
 SHL 180' FNL & 2281' FEL Section 2, T22S, R32E
 BHL 1220' FSL & 2178' FEL 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	14.75"	10.75"	No	0	1189	0	1189	J-55	40.5	BTC	1.125	1.125	1.6
1st Intermediate	9.875"	7.625"	No	0	10612	0	10600	HCP-110	29.7	LTC	1.125	1.125	1.6
Production	6.75"	5.5"	No	0	10112	0	10100	HCP-110	20	CDC	1.125	1.125	1.6
	6.75"	5.5"	No	10112	10612	10100	10600	HCP-110	20	VAM SFC	1.125	1.125	1.6
	6.75"	5.5"	No	10612	18748	10600	12050	HCP-110	20	CDC	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 703H
SHL 180' FNL & 2281' FEL Section 2, T22S, R32E
BHL 1220' FSL & 2178' FEL 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	425	1.9	808	12.8	50%	B Poz + C	6% Gel + 5% SALT + 0.25PPS Pol-E-Flake + 0.005GPS NoFoam V1A
	Tail	889	165	1.35	223	14.8	20%	C	2% CaCl ₂ + 0.005GPS NoFoam V1A
1st Intermediate (stage 1)	Lead	3071	840	3.02	2537	11	118%	Prolite	5PPS Plexcrete STE + 2% SMS + 0.05% SuspendaCem 6302 + 0.85% R-1300 + 0.5% C-47B + 3PPS Gilsonite + 0.005GPS NoFoam V1A
	Tail	8489	470	1.19	559	15.6	20%	H	0.2% SMS + 0.3% C-20 + 0.2% C-47B + 0.005GPS NoFoam V1A
1st Intermediate (stage 2)	Lead	0	615	3	1845	11	465%	Prolite	5PPS Plexcrete STE + 2% SMS + 0.05% SuspendaCem 6302 + 0.5% C-47B + 3PPS Gilsonite + 0.005GPS NoFoam V1A
	Tail	2471	100	1.33	133	14.8	0%	C	0.005GPS NoFoam V1A
Production	Lead	0	695	1.87	1300	12.8	278%	B Poz + H	3% Gel + 5% SALT + 0.3% SMS + 1% R-1300 + 0.1% C-37 + 0.2% C-17 + 0.005GPS NoFoam V1A
	Tail	11579	600	1.22	732	14.5	20%	B Poz + H	5% SALT + 0.05% SuspendaCem 6302 + 0.65% C-20 + 0.5% C-47B + 0.005GPS NoFoam V1A

Note: Intermediate 1 is a two-stage cement job. DVT will be placed at approximately 3,071'.

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	1189	FW Spud Mud	8.4 - 10.0	28 - 36	NC
Intermediate 1	1189	10612	Brine Water	10.0 - 10.5	28 - 32	NC
Production	10612	11579	Cut Brine	9.2 - 9.3	28 - 30	NC
Production	11579	18748	OBM	9.2 - 10.5	55 - 65	6 - 8

**Advance Energy Partners Hat Mesa, LLC
Anderson Fed Com 703H
SHL 180' FNL & 2281' FEL Section 2, T22S, R32E
BHL 1220' FSL & 2178' FEL 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 $\approx 241^{\circ}$ 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 703H**

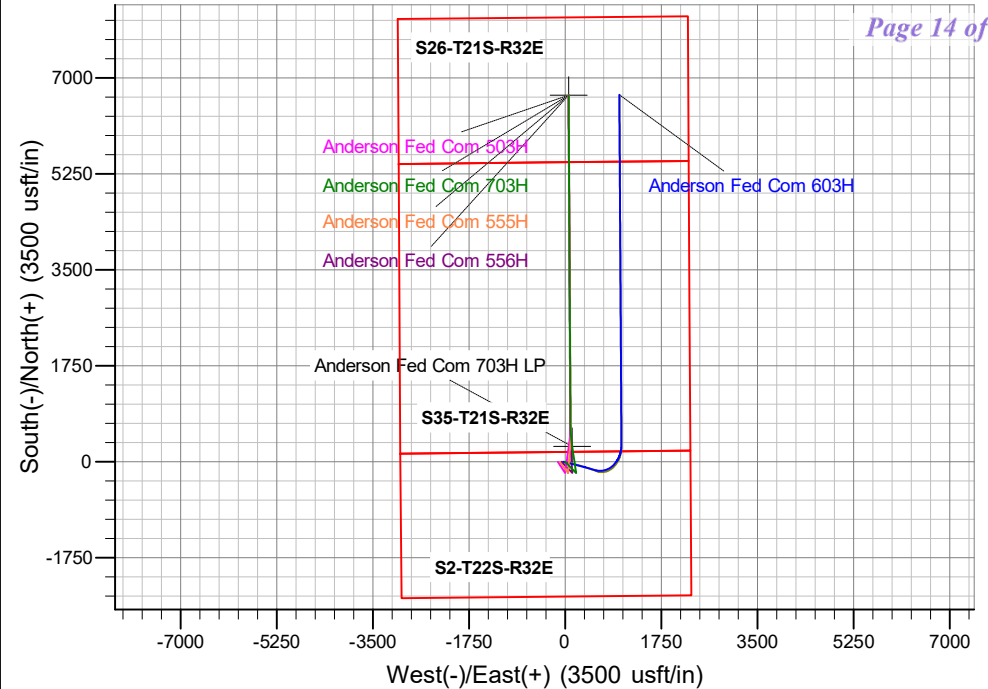
Ground Elev: 3667.0 KB: 3699.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	519962.01	753954.75	32° 25' 39.205 N	103° 38' 39.246 W

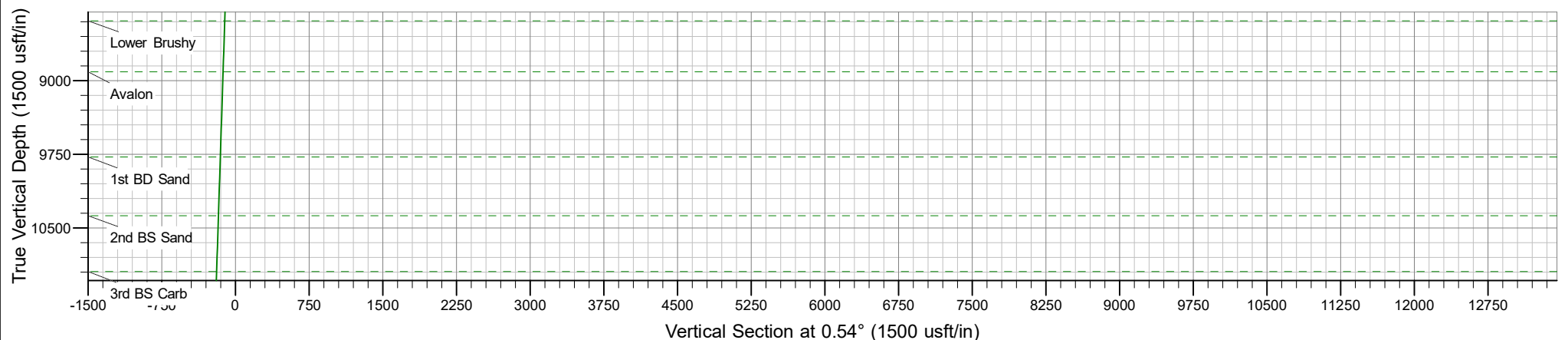
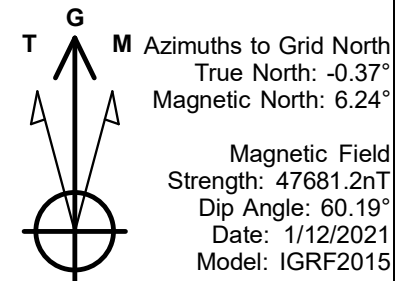
PROJECT DETAILS: Hat Mesa

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	4900.0	0.00	0.00	4900.0	0.0	0.0	0.00	0.00	0.0	KOP - Start Build 1.00
3	5160.7	2.61	135.71	5160.6	-4.2	4.1	1.00	135.71	-4.2	Start 6035.0 hold at 5160.7 MD
4	11195.7	2.61	135.71	11189.4	-200.8	195.9	0.00	0.00	-198.9	Start Drop -1.00
5	11456.4	0.00	0.00	11450.0	-205.0	200.0	1.00	180.00	-203.1	Start 122.5 hold at 11456.4 MD
6	11579.0	0.00	0.00	11572.5	-205.0	200.0	0.00	0.00	-203.1	KOP #2 - Start Build 12.00
7	12329.0	90.00	351.57	12050.0	267.3	130.0	12.00	351.57	268.5	LP - Start 13.6 hold at 12329.0 MD
8	12342.6	90.00	351.57	12050.0	280.8	128.0	0.00	0.00	282.0	Start DLS 2.00 TFO 90.00
9	12747.8	90.00	359.67	12050.0	684.5	97.1	2.00	90.00	685.4	Start 5999.7 hold at 12747.8 MD
10	18747.6	90.00	359.67	12050.0	6684.1	63.0	0.00	0.00	6684.4	TD at 18747.6





Advance Energy Partners

Hat Mesa

Anderson Fed Com - Pad B

Anderson Fed Com 703H

Anderson Fed Com 703H

Plan: Anderson Fed Com 703H - Prelim 1

Standard Planning Report

04 August, 2021



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Anderson Fed Com 703H
Company:	Advance Energy Partners	TVD Reference:	WELL @ 3699.0usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3699.0usft (Original Well Elev)
Site:	Anderson Fed Com - Pad B	North Reference:	Grid
Well:	Anderson Fed Com 703H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 703H		
Design:	Anderson Fed Com 703H - Prelim 1		

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

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

Well	Anderson Fed Com 703H					
Well Position	+N/-S	0.0 usft	Northing:	519,962.01 usft	Latitude:	32° 25' 39.205 N
	+E/-W	0.0 usft	Easting:	753,954.75 usft	Longitude:	103° 38' 39.246 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,667.0 usft
Grid Convergence:		0.37 °				

Wellbore	Anderson Fed Com 703H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	1/12/2021	6.61	60.19	47,681.23015446

Design	Anderson Fed Com 703H - 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	0.54	

Plan Survey Tool Program	Date	8/4/2021			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	18,747.6	Anderson Fed Com 703H - Prelim	MWD+HRGM	
			OWSG MWD + HRGM		



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Anderson Fed Com 703H
Company:	Advance Energy Partners	TVD Reference:	WELL @ 3699.0usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3699.0usft (Original Well Elev)
Site:	Anderson Fed Com - Pad B	North Reference:	Grid
Well:	Anderson Fed Com 703H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 703H		
Design:	Anderson Fed Com 703H - Prelim 1		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,160.7	2.61	135.71	5,160.6	-4.2	4.1	1.00	1.00	0.00	135.71	
11,195.7	2.61	135.71	11,189.4	-200.8	195.9	0.00	0.00	0.00	0.00	
11,456.4	0.00	0.00	11,450.0	-205.0	200.0	1.00	-1.00	0.00	180.00	
11,579.0	0.00	0.00	11,572.5	-205.0	200.0	0.00	0.00	0.00	0.00	
12,329.0	90.00	351.57	12,050.0	267.3	130.0	12.00	12.00	0.00	351.57	
12,342.6	90.00	351.57	12,050.0	280.8	128.0	0.00	0.00	0.00	0.00	Anderson Fed Com 703H
12,747.8	90.00	359.67	12,050.0	684.5	97.1	2.00	0.00	2.00	90.00	
18,747.6	90.00	359.67	12,050.0	6,684.1	63.0	0.00	0.00	0.00	0.00	Anderson Fed Com 703H



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Anderson Fed Com 703H
Company:	Advance Energy Partners	TVD Reference:	WELL @ 3699.0usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3699.0usft (Original Well Elev)
Site:	Anderson Fed Com - Pad B	North Reference:	Grid
Well:	Anderson Fed Com 703H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 703H		
Design:	Anderson Fed Com 703H - 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
1,165.0	0.00	0.00	1,165.0	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
4,743.0	0.00	0.00	4,743.0	0.0	0.0	0.0	0.00	0.00	0.00
Bell Canyon									
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Anderson Fed Com 703H
Company:	Advance Energy Partners	TVD Reference:	WELL @ 3699.0usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3699.0usft (Original Well Elev)
Site:	Anderson Fed Com - Pad B	North Reference:	Grid
Well:	Anderson Fed Com 703H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 703H		
Design:	Anderson Fed Com 703H - 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)
KOP - Start Build 1.00									
5,000.0	1.00	135.71	5,000.0	-0.6	0.6	-0.6	1.00	1.00	0.00
5,100.0	2.00	135.71	5,100.0	-2.5	2.4	-2.5	1.00	1.00	0.00
5,160.7	2.61	135.71	5,160.6	-4.2	4.1	-4.2	1.00	1.00	0.00
Start 6035.0 hold at 5160.7 MD									
5,200.0	2.61	135.71	5,199.9	-5.5	5.4	-5.5	0.00	0.00	0.00
5,300.0	2.61	135.71	5,299.8	-8.8	8.6	-8.7	0.00	0.00	0.00
5,400.0	2.61	135.71	5,399.7	-12.0	11.7	-11.9	0.00	0.00	0.00
5,500.0	2.61	135.71	5,499.6	-15.3	14.9	-15.2	0.00	0.00	0.00
5,600.0	2.61	135.71	5,599.5	-18.5	18.1	-18.4	0.00	0.00	0.00
5,700.0	2.61	135.71	5,699.4	-21.8	21.3	-21.6	0.00	0.00	0.00
5,800.0	2.61	135.71	5,799.2	-25.1	24.5	-24.8	0.00	0.00	0.00
5,900.0	2.61	135.71	5,899.1	-28.3	27.6	-28.1	0.00	0.00	0.00
6,000.0	2.61	135.71	5,999.0	-31.6	30.8	-31.3	0.00	0.00	0.00
6,100.0	2.61	135.71	6,098.9	-34.8	34.0	-34.5	0.00	0.00	0.00
6,200.0	2.61	135.71	6,198.8	-38.1	37.2	-37.7	0.00	0.00	0.00
6,300.0	2.61	135.71	6,298.7	-41.3	40.3	-41.0	0.00	0.00	0.00
6,400.0	2.61	135.71	6,398.6	-44.6	43.5	-44.2	0.00	0.00	0.00
6,500.0	2.61	135.71	6,498.5	-47.9	46.7	-47.4	0.00	0.00	0.00
6,600.0	2.61	135.71	6,598.4	-51.1	49.9	-50.6	0.00	0.00	0.00
6,700.0	2.61	135.71	6,698.3	-54.4	53.0	-53.9	0.00	0.00	0.00
6,800.0	2.61	135.71	6,798.2	-57.6	56.2	-57.1	0.00	0.00	0.00
6,900.0	2.61	135.71	6,898.1	-60.9	59.4	-60.3	0.00	0.00	0.00
7,000.0	2.61	135.71	6,998.0	-64.1	62.6	-63.5	0.00	0.00	0.00
7,100.0	2.61	135.71	7,097.9	-67.4	65.7	-66.8	0.00	0.00	0.00
7,200.0	2.61	135.71	7,197.8	-70.6	68.9	-70.0	0.00	0.00	0.00
7,300.0	2.61	135.71	7,297.7	-73.9	72.1	-73.2	0.00	0.00	0.00
7,400.0	2.61	135.71	7,397.6	-77.2	75.3	-76.4	0.00	0.00	0.00
7,500.0	2.61	135.71	7,497.5	-80.4	78.5	-79.7	0.00	0.00	0.00
7,600.0	2.61	135.71	7,597.4	-83.7	81.6	-82.9	0.00	0.00	0.00
7,700.0	2.61	135.71	7,697.3	-86.9	84.8	-86.1	0.00	0.00	0.00
7,800.0	2.61	135.71	7,797.2	-90.2	88.0	-89.4	0.00	0.00	0.00
7,900.0	2.61	135.71	7,897.1	-93.4	91.2	-92.6	0.00	0.00	0.00
8,000.0	2.61	135.71	7,997.0	-96.7	94.3	-95.8	0.00	0.00	0.00
8,100.0	2.61	135.71	8,096.9	-100.0	97.5	-99.0	0.00	0.00	0.00
8,200.0	2.61	135.71	8,196.8	-103.2	100.7	-102.3	0.00	0.00	0.00
8,300.0	2.61	135.71	8,296.7	-106.5	103.9	-105.5	0.00	0.00	0.00
8,393.4	2.61	135.71	8,390.0	-109.5	106.8	-108.5	0.00	0.00	0.00
Lower Brushy									
8,400.0	2.61	135.71	8,396.6	-109.7	107.0	-108.7	0.00	0.00	0.00
8,500.0	2.61	135.71	8,496.5	-113.0	110.2	-111.9	0.00	0.00	0.00
8,600.0	2.61	135.71	8,596.3	-116.2	113.4	-115.2	0.00	0.00	0.00
8,700.0	2.61	135.71	8,696.2	-119.5	116.6	-118.4	0.00	0.00	0.00
8,800.0	2.61	135.71	8,796.1	-122.7	119.8	-121.6	0.00	0.00	0.00
8,900.0	2.61	135.71	8,896.0	-126.0	122.9	-124.8	0.00	0.00	0.00
8,914.0	2.61	135.71	8,910.0	-126.5	123.4	-125.3	0.00	0.00	0.00
Avalon									
9,000.0	2.61	135.71	8,995.9	-129.3	126.1	-128.1	0.00	0.00	0.00
9,100.0	2.61	135.71	9,095.8	-132.5	129.3	-131.3	0.00	0.00	0.00
9,200.0	2.61	135.71	9,195.7	-135.8	132.5	-134.5	0.00	0.00	0.00
9,300.0	2.61	135.71	9,295.6	-139.0	135.6	-137.7	0.00	0.00	0.00
9,400.0	2.61	135.71	9,395.5	-142.3	138.8	-141.0	0.00	0.00	0.00
9,500.0	2.61	135.71	9,495.4	-145.5	142.0	-144.2	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Anderson Fed Com 703H
Company:	Advance Energy Partners	TVD Reference:	WELL @ 3699.0usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3699.0usft (Original Well Elev)
Site:	Anderson Fed Com - Pad B	North Reference:	Grid
Well:	Anderson Fed Com 703H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 703H		
Design:	Anderson Fed Com 703H - Prelim 1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
9,600.0	2.61	135.71	9,595.3	-148.8	145.2	-147.4	0.00	0.00	0.00	
9,700.0	2.61	135.71	9,695.2	-152.1	148.3	-150.6	0.00	0.00	0.00	
9,781.9	2.61	135.71	9,777.0	-154.7	150.9	-153.3	0.00	0.00	0.00	
1st BD Sand										
9,800.0	2.61	135.71	9,795.1	-155.3	151.5	-153.9	0.00	0.00	0.00	
9,900.0	2.61	135.71	9,895.0	-158.6	154.7	-157.1	0.00	0.00	0.00	
10,000.0	2.61	135.71	9,994.9	-161.8	157.9	-160.3	0.00	0.00	0.00	
10,100.0	2.61	135.71	10,094.8	-165.1	161.1	-163.6	0.00	0.00	0.00	
10,200.0	2.61	135.71	10,194.7	-168.3	164.2	-166.8	0.00	0.00	0.00	
10,300.0	2.61	135.71	10,294.6	-171.6	167.4	-170.0	0.00	0.00	0.00	
10,380.5	2.61	135.71	10,375.0	-174.2	170.0	-172.6	0.00	0.00	0.00	
2nd BS Sand										
10,400.0	2.61	135.71	10,394.5	-174.8	170.6	-173.2	0.00	0.00	0.00	
10,500.0	2.61	135.71	10,494.4	-178.1	173.8	-176.5	0.00	0.00	0.00	
10,600.0	2.61	135.71	10,594.3	-181.4	176.9	-179.7	0.00	0.00	0.00	
10,700.0	2.61	135.71	10,694.2	-184.6	180.1	-182.9	0.00	0.00	0.00	
10,800.0	2.61	135.71	10,794.1	-187.9	183.3	-186.1	0.00	0.00	0.00	
10,900.0	2.61	135.71	10,894.0	-191.1	186.5	-189.4	0.00	0.00	0.00	
10,949.1	2.61	135.71	10,943.0	-192.7	188.0	-190.9	0.00	0.00	0.00	
3rd BS Carb										
11,000.0	2.61	135.71	10,993.9	-194.4	189.6	-192.6	0.00	0.00	0.00	
11,100.0	2.61	135.71	11,093.8	-197.6	192.8	-195.8	0.00	0.00	0.00	
11,195.7	2.61	135.71	11,189.4	-200.8	195.9	-198.9	0.00	0.00	0.00	
Start Drop -1.00										
11,200.0	2.56	135.71	11,193.7	-200.9	196.0	-199.0	1.00	-1.00	0.00	
11,300.0	1.56	135.71	11,293.6	-203.5	198.5	-201.6	1.00	-1.00	0.00	
11,400.0	0.56	135.71	11,393.6	-204.8	199.8	-202.9	1.00	-1.00	0.00	
11,456.4	0.00	0.00	11,450.0	-205.0	200.0	-203.1	1.00	-1.00	0.00	
Start 122.5 hold at 11456.4 MD										
11,500.0	0.00	0.00	11,493.6	-205.0	200.0	-203.1	0.00	0.00	0.00	
11,516.4	0.00	0.00	11,510.0	-205.0	200.0	-203.1	0.00	0.00	0.00	
3rd BS Sand										
11,579.0	0.00	0.00	11,572.5	-205.0	200.0	-203.1	0.00	0.00	0.00	
KOP #2 - Start Build 12.00										
11,600.0	2.52	351.57	11,593.6	-204.5	199.9	-202.6	12.00	12.00	0.00	
11,700.0	14.52	351.57	11,692.3	-189.9	197.8	-188.0	12.00	12.00	0.00	
11,800.0	26.52	351.57	11,785.8	-155.3	192.6	-153.5	12.00	12.00	0.00	
11,887.4	37.02	351.57	11,860.0	-109.8	185.9	-108.0	12.00	12.00	0.00	
Wolfcamp A										
11,900.0	38.52	351.57	11,869.9	-102.2	184.8	-100.5	12.00	12.00	0.00	
12,000.0	50.52	351.57	11,941.1	-33.0	174.5	-31.3	12.00	12.00	0.00	
12,100.0	62.52	351.57	11,996.1	49.4	162.3	50.9	12.00	12.00	0.00	
12,200.0	74.52	351.57	12,032.7	141.3	148.7	142.7	12.00	12.00	0.00	
12,300.0	86.52	351.57	12,049.1	238.7	134.2	239.9	12.00	12.00	0.00	
12,329.0	90.00	351.57	12,050.0	267.3	130.0	268.5	12.00	12.00	0.00	
LP - Start 13.6 hold at 12329.0 MD										
12,342.6	90.00	351.57	12,050.0	280.8	128.0	282.0	0.00	0.00	0.00	
Start DLS 2.00 TFO 90.00 - Anderson Fed Com 703H LP										
12,400.0	90.00	352.72	12,050.0	337.7	120.2	338.8	2.00	0.00	2.00	
12,500.0	90.00	354.72	12,050.0	437.1	109.2	438.1	2.00	0.00	2.00	
12,600.0	90.00	356.72	12,050.0	536.8	101.7	537.7	2.00	0.00	2.00	
12,700.0	90.00	358.72	12,050.0	636.7	97.8	637.6	2.00	0.00	2.00	
12,747.8	90.00	359.67	12,050.0	684.5	97.1	685.4	2.00	0.00	2.00	



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Anderson Fed Com 703H
Company:	Advance Energy Partners	TVD Reference:	WELL @ 3699.0usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3699.0usft (Original Well Elev)
Site:	Anderson Fed Com - Pad B	North Reference:	Grid
Well:	Anderson Fed Com 703H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 703H		
Design:	Anderson Fed Com 703H - 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)
Start 5999.7 hold at 12747.8 MD									
12,800.0	90.00	359.67	12,050.0	736.7	96.8	737.6	0.00	0.00	0.00
12,900.0	90.00	359.67	12,050.0	836.7	96.2	837.5	0.00	0.00	0.00
13,000.0	90.00	359.67	12,050.0	936.7	95.7	937.5	0.00	0.00	0.00
13,100.0	90.00	359.67	12,050.0	1,036.7	95.1	1,037.5	0.00	0.00	0.00
13,200.0	90.00	359.67	12,050.0	1,136.7	94.5	1,137.5	0.00	0.00	0.00
13,300.0	90.00	359.67	12,050.0	1,236.7	94.0	1,237.5	0.00	0.00	0.00
13,400.0	90.00	359.67	12,050.0	1,336.7	93.4	1,337.5	0.00	0.00	0.00
13,500.0	90.00	359.67	12,050.0	1,436.7	92.8	1,437.5	0.00	0.00	0.00
13,600.0	90.00	359.67	12,050.0	1,536.7	92.2	1,537.5	0.00	0.00	0.00
13,700.0	90.00	359.67	12,050.0	1,636.7	91.7	1,637.5	0.00	0.00	0.00
13,800.0	90.00	359.67	12,050.0	1,736.7	91.1	1,737.4	0.00	0.00	0.00
13,900.0	90.00	359.67	12,050.0	1,836.7	90.5	1,837.4	0.00	0.00	0.00
14,000.0	90.00	359.67	12,050.0	1,936.7	90.0	1,937.4	0.00	0.00	0.00
14,100.0	90.00	359.67	12,050.0	2,036.7	89.4	2,037.4	0.00	0.00	0.00
14,200.0	90.00	359.67	12,050.0	2,136.7	88.8	2,137.4	0.00	0.00	0.00
14,300.0	90.00	359.67	12,050.0	2,236.7	88.3	2,237.4	0.00	0.00	0.00
14,400.0	90.00	359.67	12,050.0	2,336.6	87.7	2,337.4	0.00	0.00	0.00
14,500.0	90.00	359.67	12,050.0	2,436.6	87.1	2,437.4	0.00	0.00	0.00
14,600.0	90.00	359.67	12,050.0	2,536.6	86.6	2,537.3	0.00	0.00	0.00
14,700.0	90.00	359.67	12,050.0	2,636.6	86.0	2,637.3	0.00	0.00	0.00
14,800.0	90.00	359.67	12,050.0	2,736.6	85.4	2,737.3	0.00	0.00	0.00
14,900.0	90.00	359.67	12,050.0	2,836.6	84.9	2,837.3	0.00	0.00	0.00
15,000.0	90.00	359.67	12,050.0	2,936.6	84.3	2,937.3	0.00	0.00	0.00
15,100.0	90.00	359.67	12,050.0	3,036.6	83.7	3,037.3	0.00	0.00	0.00
15,200.0	90.00	359.67	12,050.0	3,136.6	83.2	3,137.3	0.00	0.00	0.00
15,300.0	90.00	359.67	12,050.0	3,236.6	82.6	3,237.3	0.00	0.00	0.00
15,400.0	90.00	359.67	12,050.0	3,336.6	82.0	3,337.3	0.00	0.00	0.00
15,500.0	90.00	359.67	12,050.0	3,436.6	81.5	3,437.2	0.00	0.00	0.00
15,600.0	90.00	359.67	12,050.0	3,536.6	80.9	3,537.2	0.00	0.00	0.00
15,700.0	90.00	359.67	12,050.0	3,636.6	80.3	3,637.2	0.00	0.00	0.00
15,800.0	90.00	359.67	12,050.0	3,736.6	79.7	3,737.2	0.00	0.00	0.00
15,900.0	90.00	359.67	12,050.0	3,836.6	79.2	3,837.2	0.00	0.00	0.00
16,000.0	90.00	359.67	12,050.0	3,936.6	78.6	3,937.2	0.00	0.00	0.00
16,100.0	90.00	359.67	12,050.0	4,036.6	78.0	4,037.2	0.00	0.00	0.00
16,200.0	90.00	359.67	12,050.0	4,136.6	77.5	4,137.2	0.00	0.00	0.00
16,300.0	90.00	359.67	12,050.0	4,236.6	76.9	4,237.2	0.00	0.00	0.00
16,400.0	90.00	359.67	12,050.0	4,336.6	76.3	4,337.1	0.00	0.00	0.00
16,500.0	90.00	359.67	12,050.0	4,436.6	75.8	4,437.1	0.00	0.00	0.00
16,600.0	90.00	359.67	12,050.0	4,536.6	75.2	4,537.1	0.00	0.00	0.00
16,700.0	90.00	359.67	12,050.0	4,636.6	74.6	4,637.1	0.00	0.00	0.00
16,800.0	90.00	359.67	12,050.0	4,736.6	74.1	4,737.1	0.00	0.00	0.00
16,900.0	90.00	359.67	12,050.0	4,836.6	73.5	4,837.1	0.00	0.00	0.00
17,000.0	90.00	359.67	12,050.0	4,936.6	72.9	4,937.1	0.00	0.00	0.00
17,100.0	90.00	359.67	12,050.0	5,036.6	72.4	5,037.1	0.00	0.00	0.00
17,200.0	90.00	359.67	12,050.0	5,136.6	71.8	5,137.1	0.00	0.00	0.00
17,300.0	90.00	359.67	12,050.0	5,236.6	71.2	5,237.0	0.00	0.00	0.00
17,400.0	90.00	359.67	12,050.0	5,336.6	70.7	5,337.0	0.00	0.00	0.00
17,500.0	90.00	359.67	12,050.0	5,436.6	70.1	5,437.0	0.00	0.00	0.00
17,600.0	90.00	359.67	12,050.0	5,536.6	69.5	5,537.0	0.00	0.00	0.00
17,700.0	90.00	359.67	12,050.0	5,636.6	69.0	5,637.0	0.00	0.00	0.00
17,800.0	90.00	359.67	12,050.0	5,736.6	68.4	5,737.0	0.00	0.00	0.00
17,900.0	90.00	359.67	12,050.0	5,836.6	67.8	5,837.0	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Anderson Fed Com 703H
Company:	Advance Energy Partners	TVD Reference:	WELL @ 3699.0usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3699.0usft (Original Well Elev)
Site:	Anderson Fed Com - Pad B	North Reference:	Grid
Well:	Anderson Fed Com 703H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 703H		
Design:	Anderson Fed Com 703H - 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)
18,000.0	90.00	359.67	12,050.0	5,936.6	67.3	5,937.0	0.00	0.00	0.00
18,100.0	90.00	359.67	12,050.0	6,036.6	66.7	6,036.9	0.00	0.00	0.00
18,200.0	90.00	359.67	12,050.0	6,136.6	66.1	6,136.9	0.00	0.00	0.00
18,300.0	90.00	359.67	12,050.0	6,236.6	65.5	6,236.9	0.00	0.00	0.00
18,400.0	90.00	359.67	12,050.0	6,336.6	65.0	6,336.9	0.00	0.00	0.00
18,500.0	90.00	359.67	12,050.0	6,436.6	64.4	6,436.9	0.00	0.00	0.00
18,600.0	90.00	359.67	12,050.0	6,536.6	63.8	6,536.9	0.00	0.00	0.00
18,700.0	90.00	359.67	12,050.0	6,636.6	63.3	6,636.9	0.00	0.00	0.00
18,747.6	90.00	359.67	12,050.0	6,684.1	63.0	6,684.4	0.00	0.00	0.00
TD at 18747.6 - Anderson Fed Com 703H BHL									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
Anderson Fed Com 703H - plan hits target center - Point	0.00	0.00	12,050.0	280.8	128.0	520,242.81	754,082.75	32° 25' 41.975 N	103° 38' 37.731 W
Anderson Fed Com 703H - plan hits target center - Point	0.00	0.00	12,050.0	6,684.1	63.0	526,646.15	754,017.75	32° 26' 45.341 N	103° 38' 38.008 W

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
12,327.0	12,050.0	LP	5-1/2	5-1/2	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,165.0	1,165.0	Rustler		0.00		
4,743.0	4,743.0	Bell Canyon		0.00		
8,393.4	8,390.0	Lower Brushy		0.00		
8,914.0	8,910.0	Avalon		0.00		
9,781.9	9,777.0	1st BD Sand		0.00		
10,380.5	10,375.0	2nd BS Sand		0.00		
10,949.1	10,943.0	3rd BS Carb		0.00		
11,516.4	11,510.0	3rd BS Sand		0.00		
11,887.4	11,860.0	Wolfcamp A		0.00		



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Anderson Fed Com 703H
Company:	Advance Energy Partners	TVD Reference:	WELL @ 3699.0usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3699.0usft (Original Well Elev)
Site:	Anderson Fed Com - Pad B	North Reference:	Grid
Well:	Anderson Fed Com 703H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 703H		
Design:	Anderson Fed Com 703H - Prelim 1		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
4,900.0	4,900.0	0.0	0.0	KOP - Start Build 1.00
5,160.7	5,160.6	-4.2	4.1	Start 6035.0 hold at 5160.7 MD
11,195.7	11,189.4	-200.8	195.9	Start Drop -1.00
11,456.4	11,450.0	-205.0	200.0	Start 122.5 hold at 11456.4 MD
11,579.0	11,572.5	-205.0	200.0	KOP #2 - Start Build 12.00
12,329.0	12,050.0	267.3	130.0	LP - Start 13.6 hold at 12329.0 MD
12,342.6	12,050.0	280.8	128.0	Start DLS 2.00 TFO 90.00
12,747.8	12,050.0	684.5	97.1	Start 5999.7 hold at 12747.8 MD
18,747.6	12,050.0	6,684.1	63.0	TD at 18747.6



Advance Energy Partners

Hat Mesa

Anderson Fed Com - Pad B

Anderson Fed Com 703H

Anderson Fed Com 703H

Anderson Fed Com 703H - Prelim 1

Anticollision Report

04 August, 2021



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 703H
Project:	Hat Mesa	TVD Reference:	WELL @ 3699.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3699.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 703H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 703H - Prelim 1	Offset TVD Reference:	Offset Datum

Reference	Anderson Fed Com 703H - 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	8/4/2021		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	18,747.6	Anderson Fed Com 703H - Prelim 1 (Ande	MWD+HRGM	OWSG MWD + HRGM

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Anderson Fed Com - Pad B						
Anderson Fed Com 503H - Anderson Fed Com 503H - A	4,900.0	4,899.0	132.1	106.3	5.117	CC
Anderson Fed Com 503H - Anderson Fed Com 503H - A	10,000.0	10,005.4	153.7	105.0	3.160	ES, SF
Anderson Fed Com 507H - Anderson Fed Com 507H - A	5,176.3	5,170.9	31.1	4.8	1.181	Level 3, CC, ES, SF
Anderson Fed Com 555H - Anderson Fed Com 555H - A	4,900.0	4,899.0	98.1	72.3	3.802	CC, ES
Anderson Fed Com 555H - Anderson Fed Com 555H - A	10,600.0	10,596.4	125.6	72.4	2.359	SF
Anderson Fed Com 556H - Anderson Fed Com 556H - A	9,622.4	9,624.5	47.4	12.3	1.348	Level 3, CC
Anderson Fed Com 556H - Anderson Fed Com 556H - A	11,000.0	11,001.3	60.4	10.0	1.199	Level 3, ES, SF
Anderson Fed Com 603H - Anderson Fed Com 603H - A	6,558.2	6,556.1	30.5	0.2	1.006	Level 3, CC, ES, SF

Offset Design:	Anderson Fed Com - Pad B - Anderson Fed Com 503H - Anderson Fed Com 503H - Anderson Fed Com 503H - Prelim 1										Offset Site Error:	0.0 usft
Survey Program:	0-MWD+HRGM										Offset Well Error:	0.0 usft
Reference	Vertical	Offset	Semi Major Axis	Highside	Offset Wellbore Centre	Distance	Rule Assigned:	Minimum	Separation	Warning		
Measured Depth (usft)	Depth (usft)	Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	-90.69	-1.6	-132.1	132.1				
100.0	100.0	99.0	0.5	0.5	-90.69	-1.6	-132.1	132.1	131.0	1.06	124.139	
200.0	200.0	199.0	1.7	1.7	-90.69	-1.6	-132.1	132.1	128.6	3.42	38.657	
300.0	300.0	299.0	2.4	2.4	-90.69	-1.6	-132.1	132.1	127.2	4.82	27.404	
400.0	400.0	399.0	3.0	2.9	-90.69	-1.6	-132.1	132.1	126.2	5.91	22.364	
500.0	500.0	499.0	3.4	3.4	-90.69	-1.6	-132.1	132.1	125.2	6.83	19.342	
600.0	600.0	599.0	3.8	3.8	-90.69	-1.6	-132.1	132.1	124.4	7.65	17.271	
700.0	700.0	699.0	4.2	4.2	-90.69	-1.6	-132.1	132.1	123.7	8.39	15.737	
800.0	800.0	799.0	4.5	4.5	-90.69	-1.6	-132.1	132.1	123.0	9.08	14.541	
900.0	900.0	899.0	4.9	4.9	-90.69	-1.6	-132.1	132.1	122.3	9.73	13.575	
1,000.0	1,000.0	999.0	5.2	5.2	-90.69	-1.6	-132.1	132.1	121.7	10.34	12.772	
1,100.0	1,100.0	1,099.0	5.5	5.5	-90.69	-1.6	-132.1	132.1	121.1	10.92	12.092	
1,200.0	1,200.0	1,199.0	5.7	5.7	-90.69	-1.6	-132.1	132.1	120.6	11.48	11.505	
1,300.0	1,300.0	1,299.0	6.0	6.0	-90.69	-1.6	-132.1	132.1	120.1	12.01	10.993	
1,400.0	1,400.0	1,399.0	6.3	6.3	-90.69	-1.6	-132.1	132.1	119.5	12.53	10.540	
1,500.0	1,500.0	1,499.0	6.5	6.5	-90.69	-1.6	-132.1	132.1	119.0	13.03	10.135	
1,600.0	1,600.0	1,599.0	6.8	6.8	-90.69	-1.6	-132.1	132.1	118.5	13.52	9.771	
1,700.0	1,700.0	1,699.0	7.0	7.0	-90.69	-1.6	-132.1	132.1	118.1	13.99	9.441	
1,800.0	1,800.0	1,799.0	7.2	7.2	-90.69	-1.6	-132.1	132.1	117.6	14.45	9.140	
1,900.0	1,900.0	1,899.0	7.5	7.4	-90.69	-1.6	-132.1	132.1	117.2	14.90	8.864	

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 703H
Project:	Hat Mesa	TVD Reference:	WELL @ 3699.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3699.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 703H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 703H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 503H - Anderson Fed Com 503H - Anderson Fed Com 503H - Prelim 1													Offset Site Error: 0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.0 usft
Reference	Offset	Rule Assigned:											Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
2,000.0	2,000.0	1,999.0	1,999.0	7.7	7.7	-90.69	-1.6	-132.1	132.1	116.7	15.34	8.610	
2,100.0	2,100.0	2,099.0	2,099.0	7.9	7.9	-90.69	-1.6	-132.1	132.1	116.3	15.77	8.375	
2,200.0	2,200.0	2,199.0	2,199.0	8.1	8.1	-90.69	-1.6	-132.1	132.1	115.9	16.19	8.156	
2,300.0	2,300.0	2,299.0	2,299.0	8.3	8.3	-90.69	-1.6	-132.1	132.1	115.5	16.61	7.952	
2,400.0	2,400.0	2,399.0	2,399.0	8.5	8.5	-90.69	-1.6	-132.1	132.1	115.0	17.01	7.762	
2,500.0	2,500.0	2,499.0	2,499.0	8.7	8.7	-90.69	-1.6	-132.1	132.1	114.6	17.42	7.583	
2,600.0	2,600.0	2,599.0	2,599.0	8.9	8.9	-90.69	-1.6	-132.1	132.1	114.3	17.81	7.415	
2,700.0	2,700.0	2,699.0	2,699.0	9.1	9.1	-90.69	-1.6	-132.1	132.1	113.9	18.20	7.256	
2,800.0	2,800.0	2,799.0	2,799.0	9.3	9.3	-90.69	-1.6	-132.1	132.1	113.5	18.58	7.106	
2,900.0	2,900.0	2,899.0	2,899.0	9.5	9.5	-90.69	-1.6	-132.1	132.1	113.1	18.96	6.964	
3,000.0	3,000.0	2,999.0	2,999.0	9.7	9.7	-90.69	-1.6	-132.1	132.1	112.7	19.34	6.829	
3,100.0	3,100.0	3,099.0	3,099.0	9.9	9.9	-90.69	-1.6	-132.1	132.1	112.4	19.71	6.701	
3,200.0	3,200.0	3,199.0	3,199.0	10.0	10.0	-90.69	-1.6	-132.1	132.1	112.0	20.07	6.579	
3,300.0	3,300.0	3,299.0	3,299.0	10.2	10.2	-90.69	-1.6	-132.1	132.1	111.6	20.44	6.463	
3,400.0	3,400.0	3,399.0	3,399.0	10.4	10.4	-90.69	-1.6	-132.1	132.1	111.3	20.79	6.351	
3,500.0	3,500.0	3,499.0	3,499.0	10.6	10.6	-90.69	-1.6	-132.1	132.1	110.9	21.15	6.245	
3,600.0	3,600.0	3,599.0	3,599.0	10.7	10.7	-90.69	-1.6	-132.1	132.1	110.6	21.50	6.143	
3,700.0	3,700.0	3,699.0	3,699.0	10.9	10.9	-90.69	-1.6	-132.1	132.1	110.2	21.85	6.045	
3,800.0	3,800.0	3,799.0	3,799.0	11.1	11.1	-90.69	-1.6	-132.1	132.1	109.9	22.19	5.952	
3,900.0	3,900.0	3,899.0	3,899.0	11.3	11.3	-90.69	-1.6	-132.1	132.1	109.5	22.53	5.861	
4,000.0	4,000.0	3,999.0	3,999.0	11.4	11.4	-90.69	-1.6	-132.1	132.1	109.2	22.87	5.775	
4,100.0	4,100.0	4,099.0	4,099.0	11.6	11.6	-90.69	-1.6	-132.1	132.1	108.9	23.21	5.691	
4,200.0	4,200.0	4,199.0	4,199.0	11.8	11.8	-90.69	-1.6	-132.1	132.1	108.5	23.54	5.610	
4,300.0	4,300.0	4,299.0	4,299.0	11.9	11.9	-90.69	-1.6	-132.1	132.1	108.2	23.87	5.533	
4,400.0	4,400.0	4,399.0	4,399.0	12.1	12.1	-90.69	-1.6	-132.1	132.1	107.9	24.20	5.458	
4,500.0	4,500.0	4,499.0	4,499.0	12.3	12.3	-90.69	-1.6	-132.1	132.1	107.5	24.52	5.385	
4,600.0	4,600.0	4,599.0	4,599.0	12.4	12.4	-90.69	-1.6	-132.1	132.1	107.2	24.85	5.315	
4,700.0	4,700.0	4,699.0	4,699.0	12.6	12.6	-90.69	-1.6	-132.1	132.1	106.9	25.17	5.247	
4,800.0	4,800.0	4,799.0	4,799.0	12.7	12.7	-90.69	-1.6	-132.1	132.1	106.6	25.49	5.181	
4,900.0	4,900.0	4,899.0	4,899.0	12.9	12.9	-90.69	-1.6	-132.1	132.1	106.3	25.81	5.117 CC	
5,000.0	5,000.0	4,999.0	4,999.0	13.0	13.1	133.88	-1.6	-132.1	132.7	106.6	26.06	5.091	
5,100.0	5,100.0	5,100.2	5,100.2	13.1	13.2	134.37	-2.3	-131.6	134.0	107.8	26.23	5.110	
5,160.7	5,160.6	5,161.8	5,161.7	13.1	13.2	134.61	-3.5	-130.8	135.0	108.7	26.29	5.133	
5,200.0	5,199.9	5,201.5	5,201.5	13.1	13.2	134.71	-4.6	-130.1	135.5	109.2	26.33	5.149	
5,300.0	5,299.8	5,302.9	5,302.7	13.2	13.3	134.52	-8.3	-127.7	136.3	109.8	26.48	5.148	
5,400.0	5,399.7	5,403.1	5,402.8	13.4	13.4	133.94	-12.9	-124.7	136.5	109.9	26.62	5.127	
5,500.0	5,499.6	5,503.0	5,502.6	13.5	13.5	133.35	-17.6	-121.6	136.6	109.8	26.81	5.097	
5,600.0	5,599.5	5,603.0	5,602.4	13.7	13.7	132.76	-22.3	-118.6	136.8	109.8	27.02	5.064	
5,700.0	5,699.4	5,703.0	5,702.3	13.9	13.8	132.17	-26.9	-115.6	137.0	109.8	27.23	5.031	
5,800.0	5,799.2	5,803.0	5,802.1	14.0	14.0	131.59	-31.6	-112.5	137.2	109.7	27.46	4.997	
5,900.0	5,899.1	5,903.0	5,901.9	14.2	14.2	131.00	-36.3	-109.5	137.4	109.7	27.69	4.963	
6,000.0	5,999.0	6,003.0	6,001.8	14.5	14.4	130.42	-40.9	-106.5	137.7	109.7	27.93	4.929	
6,100.0	6,098.9	6,103.0	6,101.6	14.7	14.6	129.84	-45.6	-103.4	137.9	109.7	28.17	4.895	
6,200.0	6,198.8	6,203.0	6,201.4	14.9	14.8	129.26	-50.3	-100.4	138.2	109.7	28.42	4.861	
6,300.0	6,298.7	6,303.0	6,301.3	15.2	15.1	128.68	-54.9	-97.4	138.4	109.8	28.68	4.827	
6,400.0	6,398.6	6,403.0	6,401.1	15.4	15.3	128.11	-59.6	-94.4	138.7	109.8	28.93	4.794	
6,500.0	6,498.5	6,502.9	6,500.9	15.7	15.6	127.54	-64.2	-91.3	139.0	109.8	29.19	4.762	
6,600.0	6,598.4	6,602.9	6,600.8	16.0	15.9	126.97	-68.9	-88.3	139.3	109.9	29.46	4.730	
6,700.0	6,698.3	6,702.9	6,700.6	16.2	16.2	126.41	-73.6	-85.3	139.7	109.9	29.72	4.699	
6,800.0	6,798.2	6,802.9	6,800.5	16.5	16.5	125.84	-78.2	-82.2	140.0	110.0	29.98	4.669	
6,900.0	6,898.1	6,902.9	6,900.3	16.8	16.8	125.28	-82.9	-79.2	140.4	110.1	30.25	4.640	
7,000.0	6,998.0	7,002.9	7,000.1	17.1	17.1	124.72	-87.6	-76.2	140.7	110.2	30.51	4.612	

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 703H
Project:	Hat Mesa	TVD Reference:	WELL @ 3699.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3699.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 703H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 703H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 503H - Anderson Fed Com 503H - Anderson Fed Com 503H - Prelim 1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,100.0	7,097.9	7,102.9	7,100.0	17.5	17.4	124.17	-92.2	-73.1	141.1	110.3	30.78	4.585	
7,200.0	7,197.8	7,202.9	7,199.8	17.8	17.7	123.62	-96.9	-70.1	141.5	110.5	31.04	4.559	
7,300.0	7,297.7	7,302.9	7,299.6	18.1	18.1	123.07	-101.6	-67.1	141.9	110.6	31.31	4.533	
7,400.0	7,397.6	7,402.9	7,399.5	18.4	18.4	122.53	-106.2	-64.0	142.3	110.8	31.57	4.509	
7,500.0	7,497.5	7,502.8	7,499.3	18.8	18.8	121.98	-110.9	-61.0	142.8	110.9	31.83	4.486	
7,600.0	7,597.4	7,602.8	7,599.1	19.1	19.1	121.44	-115.6	-58.0	143.2	111.1	32.09	4.464	
7,700.0	7,697.3	7,702.8	7,699.0	19.5	19.5	120.91	-120.2	-54.9	143.7	111.3	32.34	4.443	
7,800.0	7,797.2	7,802.8	7,798.8	19.8	19.8	120.38	-124.9	-51.9	144.2	111.6	32.59	4.423	
7,900.0	7,897.1	7,902.8	7,898.6	20.2	20.2	119.85	-129.5	-48.9	144.6	111.8	32.85	4.404	
8,000.0	7,997.0	8,002.8	7,998.5	20.5	20.6	119.33	-134.2	-45.8	145.1	112.0	33.09	4.386	
8,100.0	8,096.9	8,102.8	8,098.3	20.9	21.0	118.80	-138.9	-42.8	145.6	112.3	33.34	4.368	
8,200.0	8,196.8	8,202.8	8,198.1	21.3	21.4	118.29	-143.5	-39.8	146.2	112.6	33.58	4.352	
8,300.0	8,296.7	8,302.8	8,298.0	21.7	21.7	117.77	-148.2	-36.7	146.7	112.9	33.82	4.337	
8,400.0	8,396.6	8,402.8	8,397.8	22.0	22.1	117.26	-152.9	-33.7	147.2	113.2	34.06	4.323	
8,500.0	8,496.5	8,502.7	8,497.7	22.4	22.5	116.76	-157.5	-30.7	147.8	113.5	34.30	4.309	
8,600.0	8,596.3	8,602.7	8,597.5	22.8	22.9	116.26	-162.2	-27.7	148.4	113.8	34.53	4.297	
8,700.0	8,696.2	8,702.7	8,697.3	23.2	23.3	115.76	-166.9	-24.6	148.9	114.2	34.76	4.285	
8,800.0	8,796.1	8,802.7	8,797.2	23.6	23.7	115.26	-171.5	-21.6	149.5	114.5	34.99	4.274	
8,900.0	8,896.0	8,902.7	8,897.0	24.0	24.2	114.77	-176.2	-18.6	150.1	114.9	35.21	4.264	
9,000.0	8,995.9	9,002.7	8,996.8	24.4	24.6	114.29	-180.9	-15.5	150.7	115.3	35.43	4.254	
9,100.0	9,095.8	9,102.7	9,096.7	24.8	25.0	113.80	-185.5	-12.5	151.4	115.7	35.65	4.246	
9,200.0	9,195.7	9,202.7	9,196.5	25.2	25.4	113.32	-190.2	-9.5	152.0	116.1	35.87	4.238	
9,300.0	9,295.6	9,302.6	9,296.3	25.6	25.8	112.86	-194.8	-6.4	152.7	116.6	36.07	4.232	
9,400.0	9,395.5	9,402.0	9,395.6	26.0	26.2	112.80	-198.5	-4.0	153.5	117.2	36.34	4.225	
9,500.0	9,495.4	9,501.5	9,495.0	26.4	26.6	113.37	-200.8	-2.6	154.8	118.0	36.75	4.211	
9,600.0	9,595.3	9,600.8	9,594.3	26.8	26.7	114.55	-201.6	-2.1	156.4	119.1	37.28	4.195	
9,700.0	9,695.2	9,700.7	9,694.2	27.2	26.8	116.04	-201.6	-2.1	158.3	120.4	37.91	4.177	
9,800.0	9,795.1	9,811.6	9,804.7	27.6	26.6	120.00	-194.5	-1.0	157.9	118.6	39.29	4.018	
9,900.0	9,895.0	9,917.2	9,905.8	28.0	26.3	131.84	-165.4	3.2	152.1	108.8	43.27	3.515	
9,943.8	9,938.8	9,958.1	9,943.0	28.2	26.2	138.80	-148.2	5.7	150.9	105.3	45.61	3.309	
10,000.0	9,994.9	10,005.4	9,983.8	28.4	26.0	148.23	-124.6	9.1	153.7	105.0	48.63	3.160 ES, SF	
10,100.0	10,094.8	10,075.0	10,039.0	28.8	25.8	163.44	-82.9	15.2	176.2	123.8	52.35	3.365	
10,200.0	10,194.7	10,131.0	10,078.7	29.3	25.7	175.14	-43.8	20.8	222.0	168.3	53.71	4.134	
10,300.0	10,294.6	10,175.0	10,106.4	29.7	25.6	-176.82	-10.0	25.7	285.0	230.9	54.09	5.268	
10,400.0	10,394.5	10,208.8	10,125.6	30.1	25.6	-171.46	17.6	29.7	358.7	304.3	54.38	6.596	
10,500.0	10,494.4	10,236.5	10,139.7	30.5	25.6	-167.60	41.2	33.2	439.2	384.5	54.75	8.022	
10,600.0	10,594.3	10,259.2	10,150.3	30.9	25.5	-164.78	61.0	36.1	524.2	469.0	55.20	9.498	
10,700.0	10,694.2	10,275.0	10,157.1	31.4	25.5	-162.98	75.1	38.1	612.4	556.7	55.72	10.991	
10,800.0	10,794.1	10,300.0	10,166.8	31.8	25.6	-160.37	97.9	41.4	702.8	646.6	56.19	12.509	
10,900.0	10,894.0	10,300.0	10,166.8	32.2	25.6	-160.37	97.9	41.4	794.9	738.1	56.81	13.991	
11,000.0	10,993.9	10,325.0	10,175.4	32.6	25.6	-158.05	121.2	44.8	888.2	830.9	57.29	15.502	
11,100.0	11,093.8	10,325.0	10,175.4	33.1	25.6	-158.05	121.2	44.8	982.4	924.5	57.90	16.969	

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 703H
Project:	Hat Mesa	TVD Reference:	WELL @ 3699.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3699.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 703H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 703H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 507H - Anderson Fed Com 507H - Anderson Fed Com 507H - Prelim 1													Offset Site Error:	0.0 usft	
Survey Program: 0-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		
0.0	0.0	0.0	0.0	0.0	0.0	89.63	0.2	33.0	33.3						
100.0	100.0	95.5	95.5	0.5	0.5	89.63	0.2	33.0	33.0	32.0	1.04	31.719			
200.0	200.0	195.5	195.5	1.7	1.7	89.63	0.2	33.0	33.0	29.6	3.37	9.789			
300.0	300.0	295.5	295.5	2.4	2.4	89.63	0.2	33.0	33.0	28.2	4.79	6.888			
400.0	400.0	395.5	395.5	3.0	2.9	89.63	0.2	33.0	33.0	27.1	5.88	5.610			
500.0	500.0	495.5	495.5	3.4	3.4	89.63	0.2	33.0	33.0	26.2	6.81	4.848			
600.0	600.0	595.5	595.5	3.8	3.8	89.63	0.2	33.0	33.0	25.4	7.63	4.326			
700.0	700.0	695.5	695.5	4.2	4.2	89.63	0.2	33.0	33.0	24.6	8.38	3.941			
800.0	800.0	795.5	795.5	4.5	4.5	89.63	0.2	33.0	33.0	23.9	9.07	3.640			
900.0	900.0	895.5	895.5	4.9	4.9	89.63	0.2	33.0	33.0	23.3	9.72	3.398			
1,000.0	1,000.0	995.5	995.5	5.2	5.2	89.63	0.2	33.0	33.0	22.7	10.33	3.197			
1,100.0	1,100.0	1,095.5	1,095.5	5.5	5.4	89.63	0.2	33.0	33.0	22.1	10.91	3.026			
1,200.0	1,200.0	1,195.5	1,195.5	5.7	5.7	89.63	0.2	33.0	33.0	21.5	11.47	2.879			
1,300.0	1,300.0	1,295.5	1,295.5	6.0	6.0	89.63	0.2	33.0	33.0	21.0	12.00	2.750			
1,400.0	1,400.0	1,395.5	1,395.5	6.3	6.3	89.63	0.2	33.0	33.0	20.5	12.52	2.637			
1,500.0	1,500.0	1,495.5	1,495.5	6.5	6.5	89.63	0.2	33.0	33.0	20.0	13.02	2.536			
1,600.0	1,600.0	1,595.5	1,595.5	6.8	6.7	89.63	0.2	33.0	33.0	19.5	13.51	2.444			
1,700.0	1,700.0	1,695.5	1,695.5	7.0	7.0	89.63	0.2	33.0	33.0	19.0	13.98	2.362			
1,800.0	1,800.0	1,795.5	1,795.5	7.2	7.2	89.63	0.2	33.0	33.0	18.6	14.44	2.286			
1,900.0	1,900.0	1,895.5	1,895.5	7.5	7.4	89.63	0.2	33.0	33.0	18.1	14.89	2.217			
2,000.0	2,000.0	1,995.5	1,995.5	7.7	7.7	89.63	0.2	33.0	33.0	17.7	15.33	2.154			
2,100.0	2,100.0	2,095.5	2,095.5	7.9	7.9	89.63	0.2	33.0	33.0	17.3	15.76	2.095			
2,200.0	2,200.0	2,195.5	2,195.5	8.1	8.1	89.63	0.2	33.0	33.0	16.8	16.18	2.040			
2,300.0	2,300.0	2,295.5	2,295.5	8.3	8.3	89.63	0.2	33.0	33.0	16.4	16.60	1.989			
2,400.0	2,400.0	2,395.5	2,395.5	8.5	8.5	89.63	0.2	33.0	33.0	16.0	17.01	1.941			
2,500.0	2,500.0	2,495.5	2,495.5	8.7	8.7	89.63	0.2	33.0	33.0	15.6	17.41	1.897			
2,600.0	2,600.0	2,595.5	2,595.5	8.9	8.9	89.63	0.2	33.0	33.0	15.2	17.80	1.854			
2,700.0	2,700.0	2,695.5	2,695.5	9.1	9.1	89.63	0.2	33.0	33.0	14.8	18.19	1.815			
2,800.0	2,800.0	2,795.5	2,795.5	9.3	9.3	89.63	0.2	33.0	33.0	14.4	18.58	1.777			
2,900.0	2,900.0	2,895.5	2,895.5	9.5	9.5	89.63	0.2	33.0	33.0	14.1	18.96	1.742			
3,000.0	3,000.0	2,995.5	2,995.5	9.7	9.7	89.63	0.2	33.0	33.0	13.7	19.33	1.708			
3,100.0	3,100.0	3,095.5	3,095.5	9.9	9.8	89.63	0.2	33.0	33.0	13.3	19.70	1.676			
3,200.0	3,200.0	3,195.5	3,195.5	10.0	10.0	89.63	0.2	33.0	33.0	12.9	20.07	1.645			
3,300.0	3,300.0	3,295.5	3,295.5	10.2	10.2	89.63	0.2	33.0	33.0	12.6	20.43	1.616			
3,400.0	3,400.0	3,395.5	3,395.5	10.4	10.4	89.63	0.2	33.0	33.0	12.2	20.79	1.588			
3,500.0	3,500.0	3,495.5	3,495.5	10.6	10.6	89.63	0.2	33.0	33.0	11.9	21.14	1.562			
3,600.0	3,600.0	3,595.5	3,595.5	10.7	10.7	89.63	0.2	33.0	33.0	11.5	21.49	1.536			
3,700.0	3,700.0	3,695.5	3,695.5	10.9	10.9	89.63	0.2	33.0	33.0	11.2	21.84	1.512			
3,800.0	3,800.0	3,795.5	3,795.5	11.1	11.1	89.63	0.2	33.0	33.0	10.8	22.18	1.488 Level 3			
3,900.0	3,900.0	3,895.5	3,895.5	11.3	11.3	89.63	0.2	33.0	33.0	10.5	22.53	1.466 Level 3			
4,000.0	4,000.0	3,995.5	3,995.5	11.4	11.4	89.63	0.2	33.0	33.0	10.2	22.86	1.444 Level 3			
4,100.0	4,100.0	4,095.5	4,095.5	11.6	11.6	89.63	0.2	33.0	33.0	9.8	23.20	1.423 Level 3			
4,200.0	4,200.0	4,195.5	4,195.5	11.8	11.8	89.63	0.2	33.0	33.0	9.5	23.53	1.403 Level 3			
4,300.0	4,300.0	4,295.5	4,295.5	11.9	11.9	89.63	0.2	33.0	33.0	9.2	23.86	1.383 Level 3			
4,400.0	4,400.0	4,395.5	4,395.5	12.1	12.1	89.63	0.2	33.0	33.0	8.8	24.19	1.365 Level 3			
4,500.0	4,500.0	4,495.5	4,495.5	12.3	12.3	89.63	0.2	33.0	33.0	8.5	24.52	1.347 Level 3			
4,600.0	4,600.0	4,595.5	4,595.5	12.4	12.4	89.63	0.2	33.0	33.0	8.2	24.84	1.329 Level 3			
4,700.0	4,700.0	4,695.5	4,695.5	12.6	12.6	89.63	0.2	33.0	33.0	7.9	25.16	1.312 Level 3			
4,800.0	4,800.0	4,795.5	4,795.5	12.7	12.7	89.63	0.2	33.0	33.0	7.5	25.48	1.296 Level 3			
4,900.0	4,900.0	4,895.5	4,895.5	12.9	12.9	89.63	0.2	33.0	33.0	7.2	25.80	1.280 Level 3			
5,000.0	5,000.0	4,995.5	4,995.5	13.0	13.1	-47.19	0.2	33.0	32.4	6.4	26.05	1.244 Level 3			
5,100.0	5,100.0	5,095.0	5,095.0	13.1	13.2	-50.23	0.0	33.8	31.4	5.2	26.24	1.198 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 703H
Project:	Hat Mesa	TVD Reference:	WELL @ 3699.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3699.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 703H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 703H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 507H - Anderson Fed Com 507H - Anderson Fed Com 507H - Prelim 1													Offset Site Error: 0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.0 usft
Reference	Offset	Rule Assigned:											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,160.7	5,160.6	5,155.4	5,155.4	13.1	13.2	-52.78	-0.4	35.0	31.1	4.8	26.32	1.183	Level 3
5,176.3	5,176.2	5,170.9	5,170.9	13.1	13.2	-53.48	-0.5	35.5	31.1	4.8	26.34	1.181	Level 3, CC, ES, SF
5,200.0	5,199.9	5,194.5	5,194.4	13.1	13.3	-54.48	-0.8	36.2	31.2	4.8	26.37	1.182	Level 3
5,300.0	5,299.8	5,293.9	5,293.8	13.2	13.4	-57.74	-2.0	40.2	32.4	5.9	26.55	1.221	Level 3
5,400.0	5,399.7	5,393.4	5,393.1	13.4	13.5	-59.25	-3.7	45.9	35.2	8.5	26.75	1.317	Level 3
5,500.0	5,499.6	5,492.7	5,492.1	13.5	13.7	-59.22	-6.0	53.3	39.6	12.6	26.99	1.466	Level 3
5,600.0	5,599.5	5,591.9	5,590.9	13.7	13.9	-58.09	-8.7	62.2	45.4	18.2	27.25	1.666	
5,700.0	5,699.4	5,691.6	5,690.0	13.9	14.1	-56.69	-11.8	72.2	52.1	24.6	27.55	1.892	
5,800.0	5,799.2	5,791.4	5,789.3	14.0	14.3	-55.60	-14.8	82.2	58.9	31.0	27.88	2.112	
5,900.0	5,899.1	5,891.2	5,888.5	14.2	14.5	-54.74	-17.9	92.1	65.6	37.4	28.23	2.325	
6,000.0	5,999.0	5,990.9	5,987.7	14.5	14.8	-54.04	-20.9	102.1	72.4	43.8	28.61	2.531	
6,100.0	6,098.9	6,090.7	6,086.9	14.7	15.1	-53.46	-24.0	112.1	79.2	50.2	29.01	2.730	
6,200.0	6,198.8	6,190.5	6,186.1	14.9	15.3	-52.97	-27.0	122.1	86.0	56.6	29.43	2.922	
6,300.0	6,298.7	6,290.2	6,285.4	15.2	15.7	-52.55	-30.1	132.0	92.8	62.9	29.88	3.107	
6,400.0	6,398.6	6,390.0	6,384.6	15.4	16.0	-52.19	-33.1	142.0	99.6	69.3	30.34	3.284	
6,500.0	6,498.5	6,489.8	6,483.8	15.7	16.3	-51.88	-36.2	152.0	106.4	75.6	30.82	3.453	
6,600.0	6,598.4	6,589.5	6,583.0	16.0	16.6	-51.60	-39.2	161.9	113.2	81.9	31.32	3.616	
6,700.0	6,698.3	6,689.3	6,682.2	16.2	17.0	-51.36	-42.3	171.9	120.1	88.2	31.83	3.771	
6,800.0	6,798.2	6,789.1	6,781.5	16.5	17.4	-51.14	-45.3	181.9	126.9	94.5	32.37	3.920	
6,900.0	6,898.1	6,888.8	6,880.7	16.8	17.8	-50.94	-48.4	191.9	133.7	100.8	32.91	4.062	
7,000.0	6,998.0	6,988.6	6,979.9	17.1	18.1	-50.76	-51.4	201.8	140.5	107.0	33.47	4.198	
7,100.0	7,097.9	7,088.4	7,079.1	17.5	18.5	-50.60	-54.5	211.8	147.3	113.3	34.05	4.327	
7,200.0	7,197.8	7,188.1	7,178.3	17.8	18.9	-50.46	-57.5	221.8	154.1	119.5	34.64	4.451	
7,300.0	7,297.7	7,287.9	7,277.6	18.1	19.4	-50.32	-60.5	231.8	161.0	125.7	35.24	4.568	
7,400.0	7,397.6	7,387.7	7,376.8	18.4	19.8	-50.20	-63.6	241.7	167.8	131.9	35.85	4.681	
7,500.0	7,497.5	7,487.4	7,476.0	18.8	20.2	-50.09	-66.6	251.7	174.6	138.2	36.47	4.788	
7,600.0	7,597.4	7,587.2	7,575.2	19.1	20.6	-49.98	-69.7	261.7	181.4	144.3	37.10	4.890	
7,700.0	7,697.3	7,687.0	7,674.4	19.5	21.1	-49.88	-72.7	271.6	188.3	150.5	37.75	4.988	
7,800.0	7,797.2	7,786.7	7,773.7	19.8	21.5	-49.79	-75.8	281.6	195.1	156.7	38.40	5.081	
7,900.0	7,897.1	7,886.5	7,872.9	20.2	22.0	-49.71	-78.8	291.6	201.9	162.9	39.06	5.170	
8,000.0	7,997.0	7,986.3	7,972.1	20.5	22.4	-49.63	-81.9	301.6	208.8	169.0	39.73	5.255	
8,100.0	8,096.9	8,086.0	8,071.3	20.9	22.9	-49.55	-84.9	311.5	215.6	175.2	40.40	5.335	
8,200.0	8,196.8	8,185.8	8,170.5	21.3	23.4	-49.49	-88.0	321.5	222.4	181.3	41.09	5.413	
8,300.0	8,296.7	8,285.6	8,269.8	21.7	23.8	-49.42	-91.0	331.5	229.2	187.5	41.78	5.487	
8,400.0	8,396.6	8,385.3	8,369.0	22.0	24.3	-49.36	-94.1	341.5	236.1	193.6	42.48	5.557	
8,500.0	8,496.5	8,485.1	8,468.2	22.4	24.8	-49.30	-97.1	351.4	242.9	199.7	43.19	5.624	
8,600.0	8,596.3	8,584.9	8,567.4	22.8	25.3	-49.25	-100.2	361.4	249.7	205.8	43.90	5.689	
8,700.0	8,696.2	8,684.6	8,666.6	23.2	25.8	-49.19	-103.2	371.4	256.5	211.9	44.61	5.750	
8,800.0	8,796.1	8,784.4	8,765.9	23.6	26.2	-49.14	-106.3	381.3	263.4	218.0	45.34	5.809	
8,900.0	8,896.0	8,884.2	8,865.1	24.0	26.7	-49.10	-109.3	391.3	270.2	224.1	46.07	5.866	
9,000.0	8,995.9	8,983.9	8,964.3	24.4	27.2	-49.05	-112.4	401.3	277.0	230.2	46.80	5.920	
9,100.0	9,095.8	9,083.7	9,063.5	24.8	27.7	-49.01	-115.4	411.3	283.9	236.3	47.54	5.971	
9,200.0	9,195.7	9,183.5	9,162.7	25.2	28.2	-48.97	-118.5	421.2	290.7	242.4	48.28	6.021	
9,300.0	9,295.6	9,283.4	9,262.3	25.6	28.6	-48.92	-121.5	430.7	301.2	252.2	49.01	6.146	
9,400.0	9,395.5	9,383.3	9,361.7	26.0	29.0	-48.87	-124.6	440.1	312.3	263.4	49.85	6.485	
9,500.0	9,495.4	9,483.0	9,461.4	26.4	29.5	-48.81	-127.7	449.1	323.3	274.4	50.77	7.023	
9,600.0	9,595.3	9,582.9	9,561.2	26.8	29.8	-48.76	-130.8	458.1	334.3	285.4	51.77	7.753	
9,700.0	9,695.2	9,682.8	9,661.1	27.2	30.1	-48.71	-133.9	467.1	345.3	296.4	52.87	8.648	
9,800.0	9,795.1	9,782.7	9,761.0	27.6	30.4	-48.66	-137.0	476.1	356.3	307.4	54.07	9.672	
9,900.0	9,895.0	9,882.6	9,860.9	28.0	30.7	-48.61	-140.1	485.1	367.3	318.4	55.37	10.787	
10,000.0	9,994.9	9,982.5	9,961.2	28.4	30.8	-48.56	-143.2	494.1	378.3	329.4	56.77	12.009	
10,100.0	10,094.8	10,082.4	10,061.1	28.8	31.2	-48.51	-146.3	503.1	389.3	340.4	58.27	13.220	

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 703H
Project:	Hat Mesa	TVD Reference:	WELL @ 3699.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3699.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 703H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 703H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 507H - Anderson Fed Com 507H - Anderson Fed Com 507H - Prelim 1														Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM														Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
10,200.0	10,194.7	9,723.9	9,601.0	29.3	31.6	-41.72	-187.7	694.1	792.7	736.9	55.74	14.222			
10,300.0	10,294.6	9,794.3	9,647.5	29.7	31.9	-43.13	-177.9	746.0	864.7	808.3	56.40	15.331			
10,400.0	10,394.5	9,859.7	9,689.4	30.1	32.3	-45.05	-159.7	792.7	937.0	880.1	56.94	16.457			

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 703H
Project:	Hat Mesa	TVD Reference:	WELL @ 3699.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3699.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 703H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 703H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 555H - Anderson Fed Com 555H - Anderson Fed Com 555H - 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)		
0.0	0.0	0.0	0.0	0.0	0.0	-90.79	-1.4	-98.1	98.1				
100.0	100.0	99.0	99.0	0.5	0.5	-90.79	-1.4	-98.1	98.1	97.1	1.06	92.235	
200.0	200.0	199.0	199.0	1.7	1.7	-90.79	-1.4	-98.1	98.1	94.7	3.42	28.722	
300.0	300.0	299.0	299.0	2.4	2.4	-90.79	-1.4	-98.1	98.1	93.3	4.82	20.361	
400.0	400.0	399.0	399.0	3.0	2.9	-90.79	-1.4	-98.1	98.1	92.2	5.91	16.616	
500.0	500.0	499.0	499.0	3.4	3.4	-90.79	-1.4	-98.1	98.1	91.3	6.83	14.371	
600.0	600.0	599.0	599.0	3.8	3.8	-90.79	-1.4	-98.1	98.1	90.5	7.65	12.832	
700.0	700.0	699.0	699.0	4.2	4.2	-90.79	-1.4	-98.1	98.1	89.7	8.39	11.692	
800.0	800.0	799.0	799.0	4.5	4.5	-90.79	-1.4	-98.1	98.1	89.0	9.08	10.804	
900.0	900.0	899.0	899.0	4.9	4.9	-90.79	-1.4	-98.1	98.1	88.4	9.73	10.086	
1,000.0	1,000.0	999.0	999.0	5.2	5.2	-90.79	-1.4	-98.1	98.1	87.8	10.34	9.490	
1,100.0	1,100.0	1,099.0	1,099.0	5.5	5.5	-90.79	-1.4	-98.1	98.1	87.2	10.92	8.984	
1,200.0	1,200.0	1,199.0	1,199.0	5.7	5.7	-90.79	-1.4	-98.1	98.1	86.6	11.48	8.549	
1,300.0	1,300.0	1,299.0	1,299.0	6.0	6.0	-90.79	-1.4	-98.1	98.1	86.1	12.01	8.168	
1,400.0	1,400.0	1,399.0	1,399.0	6.3	6.3	-90.79	-1.4	-98.1	98.1	85.6	12.53	7.831	
1,500.0	1,500.0	1,499.0	1,499.0	6.5	6.5	-90.79	-1.4	-98.1	98.1	85.1	13.03	7.530	
1,600.0	1,600.0	1,599.0	1,599.0	6.8	6.8	-90.79	-1.4	-98.1	98.1	84.6	13.52	7.260	
1,700.0	1,700.0	1,699.0	1,699.0	7.0	7.0	-90.79	-1.4	-98.1	98.1	84.1	13.99	7.015	
1,800.0	1,800.0	1,799.0	1,799.0	7.2	7.2	-90.79	-1.4	-98.1	98.1	83.7	14.45	6.791	
1,900.0	1,900.0	1,899.0	1,899.0	7.5	7.4	-90.79	-1.4	-98.1	98.1	83.2	14.90	6.586	
2,000.0	2,000.0	1,999.0	1,999.0	7.7	7.7	-90.79	-1.4	-98.1	98.1	82.8	15.34	6.397	
2,100.0	2,100.0	2,099.0	2,099.0	7.9	7.9	-90.79	-1.4	-98.1	98.1	82.4	15.77	6.223	
2,200.0	2,200.0	2,199.0	2,199.0	8.1	8.1	-90.79	-1.4	-98.1	98.1	81.9	16.19	6.060	
2,300.0	2,300.0	2,299.0	2,299.0	8.3	8.3	-90.79	-1.4	-98.1	98.1	81.5	16.61	5.909	
2,400.0	2,400.0	2,399.0	2,399.0	8.5	8.5	-90.79	-1.4	-98.1	98.1	81.1	17.01	5.767	
2,500.0	2,500.0	2,499.0	2,499.0	8.7	8.7	-90.79	-1.4	-98.1	98.1	80.7	17.42	5.634	
2,600.0	2,600.0	2,599.0	2,599.0	8.9	8.9	-90.79	-1.4	-98.1	98.1	80.3	17.81	5.509	
2,700.0	2,700.0	2,699.0	2,699.0	9.1	9.1	-90.79	-1.4	-98.1	98.1	79.9	18.20	5.391	
2,800.0	2,800.0	2,799.0	2,799.0	9.3	9.3	-90.79	-1.4	-98.1	98.1	79.5	18.58	5.280	
2,900.0	2,900.0	2,899.0	2,899.0	9.5	9.5	-90.79	-1.4	-98.1	98.1	79.2	18.96	5.174	
3,000.0	3,000.0	2,999.0	2,999.0	9.7	9.7	-90.79	-1.4	-98.1	98.1	78.8	19.34	5.074	
3,100.0	3,100.0	3,099.0	3,099.0	9.9	9.9	-90.79	-1.4	-98.1	98.1	78.4	19.71	4.979	
3,200.0	3,200.0	3,199.0	3,199.0	10.0	10.0	-90.79	-1.4	-98.1	98.1	78.1	20.07	4.888	
3,300.0	3,300.0	3,299.0	3,299.0	10.2	10.2	-90.79	-1.4	-98.1	98.1	77.7	20.44	4.802	
3,400.0	3,400.0	3,399.0	3,399.0	10.4	10.4	-90.79	-1.4	-98.1	98.1	77.3	20.79	4.719	
3,500.0	3,500.0	3,499.0	3,499.0	10.6	10.6	-90.79	-1.4	-98.1	98.1	77.0	21.15	4.640	
3,600.0	3,600.0	3,599.0	3,599.0	10.7	10.7	-90.79	-1.4	-98.1	98.1	76.6	21.50	4.564	
3,700.0	3,700.0	3,699.0	3,699.0	10.9	10.9	-90.79	-1.4	-98.1	98.1	76.3	21.85	4.492	
3,800.0	3,800.0	3,799.0	3,799.0	11.1	11.1	-90.79	-1.4	-98.1	98.1	75.9	22.19	4.422	
3,900.0	3,900.0	3,899.0	3,899.0	11.3	11.3	-90.79	-1.4	-98.1	98.1	75.6	22.53	4.355	
4,000.0	4,000.0	3,999.0	3,999.0	11.4	11.4	-90.79	-1.4	-98.1	98.1	75.3	22.87	4.290	
4,100.0	4,100.0	4,099.0	4,099.0	11.6	11.6	-90.79	-1.4	-98.1	98.1	74.9	23.21	4.228	
4,200.0	4,200.0	4,199.0	4,199.0	11.8	11.8	-90.79	-1.4	-98.1	98.1	74.6	23.54	4.169	
4,300.0	4,300.0	4,299.0	4,299.0	11.9	11.9	-90.79	-1.4	-98.1	98.1	74.3	23.87	4.111	
4,400.0	4,400.0	4,399.0	4,399.0	12.1	12.1	-90.79	-1.4	-98.1	98.1	73.9	24.20	4.055	
4,500.0	4,500.0	4,499.0	4,499.0	12.3	12.3	-90.79	-1.4	-98.1	98.1	73.6	24.52	4.001	
4,600.0	4,600.0	4,599.0	4,599.0	12.4	12.4	-90.79	-1.4	-98.1	98.1	73.3	24.85	3.949	
4,700.0	4,700.0	4,699.0	4,699.0	12.6	12.6	-90.79	-1.4	-98.1	98.1	73.0	25.17	3.898	
4,800.0	4,800.0	4,799.0	4,799.0	12.7	12.7	-90.79	-1.4	-98.1	98.1	72.6	25.49	3.849	
4,900.0	4,900.0	4,899.0	4,899.0	12.9	12.9	-90.79	-1.4	-98.1	98.1	72.3	25.81	3.802 CC, ES	
5,000.0	5,000.0	4,999.0	4,999.0	13.0	13.1	133.86	-1.4	-98.1	98.7	72.7	26.06	3.788	
5,100.0	5,100.0	5,099.0	5,099.0	13.1	13.2	134.92	-1.4	-98.1	100.6	74.3	26.30	3.824	

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 703H
Project:	Hat Mesa	TVD Reference:	WELL @ 3699.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3699.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 703H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 703H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 555H - Anderson Fed Com 555H - Anderson Fed Com 555H - Prelim 1													Offset Site Error: 0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.0 usft
Reference	Offset	Rule Assigned:											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,160.7	5,160.6	5,159.6	5,159.6	13.1	13.3	135.88	-1.4	-98.1	102.3	75.9	26.41	3.873	
5,200.0	5,199.9	5,198.9	5,198.9	13.1	13.4	136.57	-1.4	-98.1	103.6	77.1	26.48	3.911	
5,300.0	5,299.8	5,300.0	5,300.0	13.2	13.5	137.91	-2.1	-97.6	106.4	79.7	26.66	3.991	
5,400.0	5,399.7	5,401.2	5,401.2	13.4	13.5	138.47	-4.2	-96.0	108.1	81.2	26.83	4.027	
5,500.0	5,499.6	5,502.4	5,502.3	13.5	13.6	138.31	-7.7	-93.3	108.6	81.5	27.03	4.017	
5,600.0	5,599.5	5,602.4	5,602.2	13.7	13.7	137.81	-12.0	-90.2	108.5	81.3	27.23	3.985	
5,700.0	5,699.4	5,702.4	5,702.0	13.9	13.9	137.31	-16.2	-87.0	108.5	81.0	27.45	3.952	
5,800.0	5,799.2	5,802.4	5,801.9	14.0	14.0	136.81	-20.4	-83.9	108.5	80.8	27.69	3.918	
5,900.0	5,899.1	5,902.4	5,901.7	14.2	14.2	136.30	-24.6	-80.7	108.5	80.5	27.93	3.883	
6,000.0	5,999.0	6,002.4	6,001.6	14.5	14.3	135.80	-28.8	-77.6	108.5	80.3	28.19	3.848	
6,040.9	6,039.9	6,043.3	6,042.4	14.5	14.4	135.60	-30.5	-76.3	108.5	80.2	28.29	3.833	
6,100.0	6,098.9	6,102.4	6,101.4	14.7	14.5	135.30	-33.0	-74.4	108.5	80.0	28.45	3.812	
6,200.0	6,198.8	6,202.4	6,201.3	14.9	14.7	134.80	-37.2	-71.2	108.5	79.7	28.72	3.776	
6,300.0	6,298.7	6,302.4	6,301.2	15.2	14.9	134.30	-41.4	-68.1	108.5	79.5	29.00	3.740	
6,400.0	6,398.6	6,402.4	6,401.0	15.4	15.2	133.79	-45.6	-64.9	108.5	79.2	29.29	3.704	
6,500.0	6,498.5	6,502.4	6,500.9	15.7	15.4	133.29	-49.8	-61.8	108.5	79.0	29.59	3.669	
6,600.0	6,598.4	6,602.4	6,600.7	16.0	15.6	132.79	-54.0	-58.6	108.6	78.7	29.88	3.633	
6,700.0	6,698.3	6,702.4	6,700.6	16.2	15.9	132.29	-58.2	-55.5	108.6	78.4	30.19	3.599	
6,800.0	6,798.2	6,802.4	6,800.4	16.5	16.2	131.79	-62.4	-52.3	108.7	78.2	30.49	3.564	
6,900.0	6,898.1	6,902.4	6,900.3	16.8	16.4	131.29	-66.6	-49.2	108.8	78.0	30.80	3.531	
7,000.0	6,998.0	7,002.4	7,000.2	17.1	16.7	130.79	-70.8	-46.0	108.8	77.7	31.11	3.498	
7,100.0	7,097.9	7,102.4	7,100.0	17.5	17.0	130.29	-75.0	-42.9	108.9	77.5	31.43	3.466	
7,200.0	7,197.8	7,202.4	7,199.9	17.8	17.3	129.80	-79.2	-39.7	109.0	77.3	31.74	3.434	
7,300.0	7,297.7	7,302.4	7,299.7	18.1	17.6	129.30	-83.4	-36.5	109.1	77.1	32.05	3.404	
7,400.0	7,397.6	7,402.4	7,399.6	18.4	17.9	128.80	-87.7	-33.4	109.2	76.8	32.37	3.374	
7,500.0	7,497.5	7,502.3	7,499.4	18.8	18.3	128.31	-91.9	-30.2	109.3	76.7	32.68	3.345	
7,600.0	7,597.4	7,602.3	7,599.3	19.1	18.6	127.82	-96.1	-27.1	109.5	76.5	33.00	3.317	
7,700.0	7,697.3	7,702.3	7,699.2	19.5	18.9	127.32	-100.3	-23.9	109.6	76.3	33.31	3.290	
7,800.0	7,797.2	7,802.3	7,799.0	19.8	19.3	126.83	-104.5	-20.8	109.7	76.1	33.62	3.264	
7,900.0	7,897.1	7,902.3	7,898.9	20.2	19.6	126.34	-108.7	-17.6	109.9	76.0	33.92	3.239	
8,000.0	7,997.0	8,002.3	7,998.7	20.5	20.0	125.85	-112.9	-14.5	110.0	75.8	34.23	3.215	
8,100.0	8,096.9	8,102.3	8,098.6	20.9	20.3	125.37	-117.1	-11.3	110.2	75.7	34.53	3.191	
8,200.0	8,196.8	8,202.3	8,198.4	21.3	20.7	124.88	-121.3	-8.2	110.4	75.5	34.83	3.169	
8,300.0	8,296.7	8,302.3	8,298.3	21.7	21.1	124.40	-125.5	-5.0	110.6	75.4	35.13	3.147	
8,400.0	8,396.6	8,402.3	8,398.2	22.0	21.5	123.91	-129.7	-1.9	110.7	75.3	35.42	3.126	
8,500.0	8,496.5	8,502.3	8,498.0	22.4	21.8	123.43	-133.9	1.3	110.9	75.2	35.71	3.107	
8,600.0	8,596.3	8,602.3	8,597.9	22.8	22.2	122.95	-138.1	4.5	111.1	75.1	36.00	3.088	
8,700.0	8,696.2	8,702.3	8,697.7	23.2	22.6	122.48	-142.3	7.6	111.4	75.1	36.28	3.069	
8,800.0	8,796.1	8,802.3	8,797.6	23.6	23.0	122.00	-146.5	10.8	111.6	75.0	36.56	3.052	
8,900.0	8,896.0	8,902.3	8,897.4	24.0	23.4	121.53	-150.7	13.9	111.8	75.0	36.83	3.035	
9,000.0	8,995.9	9,002.3	8,997.3	24.4	23.8	121.06	-154.9	17.1	112.0	74.9	37.11	3.020	
9,100.0	9,095.8	9,102.3	9,097.2	24.8	24.2	120.59	-159.2	20.2	112.3	74.9	37.37	3.005	
9,200.0	9,195.7	9,202.3	9,197.0	25.2	24.6	120.12	-163.4	23.4	112.5	74.9	37.63	2.990	
9,300.0	9,295.6	9,302.3	9,296.9	25.6	25.0	119.65	-167.6	26.5	112.8	74.9	37.89	2.977	
9,400.0	9,395.5	9,402.3	9,396.7	26.0	25.4	119.19	-171.8	29.7	113.1	74.9	38.15	2.964	
9,500.0	9,495.4	9,502.3	9,496.6	26.4	25.8	118.73	-176.0	32.8	113.3	74.9	38.40	2.952	
9,600.0	9,595.3	9,602.3	9,596.4	26.8	26.2	118.27	-180.2	36.0	113.6	75.0	38.64	2.940	
9,700.0	9,695.2	9,702.2	9,696.3	27.2	26.6	117.81	-184.4	39.2	113.9	75.0	38.88	2.929	
9,800.0	9,795.1	9,802.2	9,796.2	27.6	27.1	117.36	-188.6	42.3	114.2	75.1	39.12	2.919	
9,900.0	9,895.0	9,902.2	9,896.0	28.0	27.5	116.91	-192.8	45.5	114.5	75.1	39.35	2.909	
10,000.0	9,994.9	10,001.9	9,995.6	28.4	27.9	116.55	-196.8	48.5	114.9	75.3	39.56	2.903	
10,100.0	10,094.8	10,101.3	10,094.8	28.8	28.2	116.89	-199.7	50.6	115.7	75.7	40.01	2.893	

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 703H
Project:	Hat Mesa	TVD Reference:	WELL @ 3699.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3699.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 703H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 703H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 555H - Anderson Fed Com 555H - Anderson Fed Com 555H - 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 (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,200.0	10,194.7	10,200.5	10,194.1	29.3	28.6	118.02	-201.1	51.7	117.2	76.5	40.70	2.879	
10,300.0	10,294.6	10,300.0	10,293.6	29.7	28.7	119.82	-201.4	51.9	119.3	77.7	41.57	2.870	
10,400.0	10,394.5	10,402.4	10,395.9	30.1	28.6	122.25	-200.2	52.0	121.3	78.6	42.70	2.841	
10,500.0	10,494.4	10,505.7	10,497.4	30.5	28.3	132.49	-182.0	53.5	120.4	73.5	46.89	2.568	
10,504.9	10,499.3	10,510.5	10,502.0	30.5	28.3	133.21	-180.6	53.6	120.4	73.2	47.18	2.552	
10,600.0	10,594.3	10,596.4	10,581.5	30.9	28.0	149.43	-148.4	56.3	125.6	72.4	53.25	2.359 SF	
10,700.0	10,694.2	10,671.4	10,645.2	31.4	27.8	166.15	-109.0	59.5	150.2	92.7	57.49	2.612	
10,800.0	10,794.1	10,731.8	10,691.4	31.8	27.6	178.49	-70.5	62.7	196.6	137.8	58.73	3.347	
10,900.0	10,894.0	10,779.9	10,724.6	32.2	27.5	-173.32	-35.8	65.6	259.0	200.0	59.02	4.389	
11,000.0	10,993.9	10,818.4	10,748.5	32.6	27.4	-167.88	-5.7	68.1	331.8	272.5	59.31	5.595	
11,100.0	11,093.8	10,850.0	10,766.2	33.1	27.4	-164.10	20.4	70.3	411.3	351.6	59.72	6.887	
11,195.7	11,189.4	10,875.0	10,779.0	33.5	27.4	-161.49	41.8	72.1	491.6	431.4	60.21	8.165	
11,200.0	11,193.7	10,875.0	10,779.0	33.5	27.4	-161.51	41.8	72.1	495.3	435.1	60.25	8.221	
11,300.0	11,293.6	10,900.0	10,790.7	33.9	27.3	-159.78	63.8	73.9	582.2	521.4	60.78	9.578	
11,400.0	11,393.6	10,915.1	10,797.1	34.2	27.3	-159.17	77.4	75.0	670.6	609.2	61.41	10.920	
11,456.4	11,450.0	10,925.0	10,801.1	34.3	27.3	-23.09	86.4	75.8	721.2	659.4	61.73	11.682	
11,500.0	11,493.6	10,925.0	10,801.1	34.3	27.3	-23.09	86.4	75.8	760.6	698.5	62.04	12.259	
11,579.0	11,572.5	10,950.0	10,810.4	34.4	27.3	-21.25	109.6	77.7	832.6	770.2	62.38	13.346	
11,600.0	11,593.6	10,950.0	10,810.4	34.3	27.3	-11.66	109.6	77.7	851.7	789.2	62.53	13.621	
11,625.0	11,618.5	10,950.0	10,810.4	34.3	27.3	-10.52	109.6	77.7	874.0	811.3	62.70	13.940	
11,650.0	11,643.3	10,950.0	10,810.4	34.2	27.3	-9.58	109.6	77.7	895.8	833.0	62.87	14.249	
11,675.0	11,667.9	10,950.0	10,810.4	34.1	27.3	-8.79	109.6	77.7	917.2	854.2	63.04	14.549	
11,700.0	11,692.3	10,961.8	10,814.4	34.0	27.3	-7.71	120.6	78.6	937.9	874.8	63.13	14.856	
11,725.0	11,716.3	10,966.5	10,815.9	33.9	27.3	-7.03	125.1	79.0	958.0	894.8	63.28	15.140	
11,750.0	11,739.9	10,975.0	10,818.5	33.8	27.3	-6.35	133.2	79.6	977.6	914.2	63.40	15.420	
11,775.0	11,763.1	10,975.0	10,818.5	33.7	27.3	-5.98	133.2	79.6	996.5	932.9	63.59	15.671	

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 703H
Project:	Hat Mesa	TVD Reference:	WELL @ 3699.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3699.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 703H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 703H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 556H - Anderson Fed Com 556H - Anderson Fed Com 556H - Prelim 1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	0.0	0.0	0.0	0.0	-90.69	-0.8	-65.4	65.4				
100.0	100.0	99.0	99.0	0.5	0.5	-90.69	-0.8	-65.4	65.4	64.4	1.06	61.489	
200.0	200.0	199.0	199.0	1.7	1.7	-90.69	-0.8	-65.4	65.4	62.0	3.42	19.148	
300.0	300.0	299.0	299.0	2.4	2.4	-90.69	-0.8	-65.4	65.4	60.6	4.82	13.574	
400.0	400.0	399.0	399.0	3.0	2.9	-90.69	-0.8	-65.4	65.4	59.5	5.91	11.077	
500.0	500.0	499.0	499.0	3.4	3.4	-90.69	-0.8	-65.4	65.4	58.6	6.83	9.581	
600.0	600.0	599.0	599.0	3.8	3.8	-90.69	-0.8	-65.4	65.4	57.8	7.65	8.555	
700.0	700.0	699.0	699.0	4.2	4.2	-90.69	-0.8	-65.4	65.4	57.0	8.39	7.795	
800.0	800.0	799.0	799.0	4.5	4.5	-90.69	-0.8	-65.4	65.4	56.3	9.08	7.203	
900.0	900.0	899.0	899.0	4.9	4.9	-90.69	-0.8	-65.4	65.4	55.7	9.73	6.724	
1,000.0	1,000.0	999.0	999.0	5.2	5.2	-90.69	-0.8	-65.4	65.4	55.1	10.34	6.327	
1,100.0	1,100.0	1,099.0	1,099.0	5.5	5.5	-90.69	-0.8	-65.4	65.4	54.5	10.92	5.990	
1,200.0	1,200.0	1,199.0	1,199.0	5.7	5.7	-90.69	-0.8	-65.4	65.4	53.9	11.48	5.699	
1,300.0	1,300.0	1,299.0	1,299.0	6.0	6.0	-90.69	-0.8	-65.4	65.4	53.4	12.01	5.445	
1,400.0	1,400.0	1,399.0	1,399.0	6.3	6.3	-90.69	-0.8	-65.4	65.4	52.9	12.53	5.221	
1,500.0	1,500.0	1,499.0	1,499.0	6.5	6.5	-90.69	-0.8	-65.4	65.4	52.4	13.03	5.020	
1,600.0	1,600.0	1,599.0	1,599.0	6.8	6.8	-90.69	-0.8	-65.4	65.4	51.9	13.52	4.840	
1,700.0	1,700.0	1,699.0	1,699.0	7.0	7.0	-90.69	-0.8	-65.4	65.4	51.4	13.99	4.676	
1,800.0	1,800.0	1,799.0	1,799.0	7.2	7.2	-90.69	-0.8	-65.4	65.4	51.0	14.45	4.527	
1,900.0	1,900.0	1,899.0	1,899.0	7.5	7.4	-90.69	-0.8	-65.4	65.4	50.5	14.90	4.391	
2,000.0	2,000.0	1,999.0	1,999.0	7.7	7.7	-90.69	-0.8	-65.4	65.4	50.1	15.34	4.265	
2,100.0	2,100.0	2,099.0	2,099.0	7.9	7.9	-90.69	-0.8	-65.4	65.4	49.6	15.77	4.148	
2,200.0	2,200.0	2,199.0	2,199.0	8.1	8.1	-90.69	-0.8	-65.4	65.4	49.2	16.19	4.040	
2,300.0	2,300.0	2,299.0	2,299.0	8.3	8.3	-90.69	-0.8	-65.4	65.4	48.8	16.61	3.939	
2,400.0	2,400.0	2,399.0	2,399.0	8.5	8.5	-90.69	-0.8	-65.4	65.4	48.4	17.01	3.845	
2,500.0	2,500.0	2,499.0	2,499.0	8.7	8.7	-90.69	-0.8	-65.4	65.4	48.0	17.42	3.756	
2,600.0	2,600.0	2,599.0	2,599.0	8.9	8.9	-90.69	-0.8	-65.4	65.4	47.6	17.81	3.673	
2,700.0	2,700.0	2,699.0	2,699.0	9.1	9.1	-90.69	-0.8	-65.4	65.4	47.2	18.20	3.594	
2,800.0	2,800.0	2,799.0	2,799.0	9.3	9.3	-90.69	-0.8	-65.4	65.4	46.8	18.58	3.520	
2,900.0	2,900.0	2,899.0	2,899.0	9.5	9.5	-90.69	-0.8	-65.4	65.4	46.5	18.96	3.449	
3,000.0	3,000.0	2,999.0	2,999.0	9.7	9.7	-90.69	-0.8	-65.4	65.4	46.1	19.34	3.383	
3,100.0	3,100.0	3,099.0	3,099.0	9.9	9.9	-90.69	-0.8	-65.4	65.4	45.7	19.71	3.319	
3,200.0	3,200.0	3,199.0	3,199.0	10.0	10.0	-90.69	-0.8	-65.4	65.4	45.3	20.07	3.259	
3,300.0	3,300.0	3,299.0	3,299.0	10.2	10.2	-90.69	-0.8	-65.4	65.4	45.0	20.44	3.201	
3,400.0	3,400.0	3,399.0	3,399.0	10.4	10.4	-90.69	-0.8	-65.4	65.4	44.6	20.79	3.146	
3,500.0	3,500.0	3,499.0	3,499.0	10.6	10.6	-90.69	-0.8	-65.4	65.4	44.3	21.15	3.093	
3,600.0	3,600.0	3,599.0	3,599.0	10.7	10.7	-90.69	-0.8	-65.4	65.4	43.9	21.50	3.043	
3,700.0	3,700.0	3,699.0	3,699.0	10.9	10.9	-90.69	-0.8	-65.4	65.4	43.6	21.85	2.994	
3,800.0	3,800.0	3,799.0	3,799.0	11.1	11.1	-90.69	-0.8	-65.4	65.4	43.2	22.19	2.948	
3,900.0	3,900.0	3,899.0	3,899.0	11.3	11.3	-90.69	-0.8	-65.4	65.4	42.9	22.53	2.903	
4,000.0	4,000.0	3,999.0	3,999.0	11.4	11.4	-90.69	-0.8	-65.4	65.4	42.5	22.87	2.860	
4,100.0	4,100.0	4,099.0	4,099.0	11.6	11.6	-90.69	-0.8	-65.4	65.4	42.2	23.21	2.819	
4,200.0	4,200.0	4,199.0	4,199.0	11.8	11.8	-90.69	-0.8	-65.4	65.4	41.9	23.54	2.779	
4,300.0	4,300.0	4,299.0	4,299.0	11.9	11.9	-90.69	-0.8	-65.4	65.4	41.5	23.87	2.740	
4,400.0	4,400.0	4,399.0	4,399.0	12.1	12.1	-90.69	-0.8	-65.4	65.4	41.2	24.20	2.703	
4,500.0	4,500.0	4,499.0	4,499.0	12.3	12.3	-90.69	-0.8	-65.4	65.4	40.9	24.52	2.667	
4,600.0	4,600.0	4,599.0	4,599.0	12.4	12.4	-90.69	-0.8	-65.4	65.4	40.6	24.85	2.633	
4,700.0	4,700.0	4,699.0	4,699.0	12.6	12.6	-90.69	-0.8	-65.4	65.4	40.2	25.17	2.599	
4,800.0	4,800.0	4,799.0	4,799.0	12.7	12.7	-90.69	-0.8	-65.4	65.4	39.9	25.49	2.566	
4,900.0	4,900.0	4,899.0	4,899.0	12.9	12.9	-90.69	-0.8	-65.4	65.4	39.6	25.81	2.535	
5,000.0	5,000.0	4,999.0	4,999.0	13.0	13.1	134.15	-0.8	-65.4	66.0	40.0	26.06	2.533	
5,100.0	5,100.0	5,099.0	5,099.0	13.1	13.2	135.72	-0.8	-65.4	67.9	41.6	26.30	2.581	

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 703H
Project:	Hat Mesa	TVD Reference:	WELL @ 3699.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3699.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 703H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 703H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 556H - Anderson Fed Com 556H - Anderson Fed Com 556H - Prelim 1													Offset Site Error: 0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.0 usft
Reference	Offset	Rule Assigned:											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,160.7	5,160.6	5,159.6	5,159.6	13.1	13.3	137.11	-0.8	-65.4	69.6	43.2	26.42	2.636	
5,200.0	5,199.9	5,198.9	5,198.9	13.1	13.4	138.09	-0.8	-65.4	71.0	44.5	26.48	2.679	
5,300.0	5,299.8	5,298.8	5,298.8	13.2	13.5	140.43	-0.8	-65.4	74.4	47.7	26.73	2.784	
5,400.0	5,399.7	5,398.7	5,398.7	13.4	13.7	142.56	-0.8	-65.4	78.0	51.0	27.00	2.888	
5,500.0	5,499.6	5,499.7	5,499.7	13.5	13.8	144.17	-1.4	-64.8	80.9	53.7	27.21	2.974	
5,600.0	5,599.5	5,600.9	5,600.8	13.7	13.9	144.96	-3.3	-63.0	82.5	55.1	27.42	3.009	
5,700.0	5,699.4	5,702.1	5,701.9	13.9	13.9	145.02	-6.5	-59.9	82.6	55.0	27.65	2.989	
5,800.0	5,799.2	5,802.7	5,802.4	14.0	14.0	144.44	-10.8	-55.6	81.5	53.6	27.83	2.927	
5,900.0	5,899.1	5,902.7	5,902.2	14.2	14.1	143.71	-15.3	-51.3	80.1	52.0	28.08	2.851	
6,000.0	5,999.0	6,002.7	6,002.0	14.5	14.3	142.97	-19.8	-46.9	78.7	50.3	28.36	2.774	
6,100.0	6,098.9	6,102.7	6,101.8	14.7	14.4	142.19	-24.3	-42.5	77.3	48.6	28.65	2.698	
6,200.0	6,198.8	6,202.7	6,201.6	14.9	14.6	141.39	-28.8	-38.1	75.9	47.0	28.96	2.622	
6,300.0	6,298.7	6,302.7	6,301.3	15.2	14.8	140.56	-33.3	-33.7	74.6	45.3	29.27	2.549	
6,400.0	6,398.6	6,402.6	6,401.1	15.4	15.0	139.70	-37.8	-29.3	73.3	43.7	29.59	2.476	
6,500.0	6,498.5	6,502.6	6,500.9	15.7	15.2	138.80	-42.3	-25.0	72.0	42.0	29.91	2.405	
6,600.0	6,598.4	6,602.6	6,600.7	16.0	15.5	137.88	-46.8	-20.6	70.7	40.4	30.24	2.336	
6,700.0	6,698.3	6,702.6	6,700.5	16.2	15.7	136.92	-51.3	-16.2	69.4	38.8	30.57	2.270	
6,800.0	6,798.2	6,802.6	6,800.3	16.5	16.0	135.92	-55.8	-11.8	68.1	37.2	30.90	2.205	
6,900.0	6,898.1	6,902.6	6,900.1	16.8	16.2	134.89	-60.2	-7.4	66.9	35.7	31.23	2.142	
7,000.0	6,998.0	7,002.5	6,999.9	17.1	16.5	133.81	-64.7	-3.1	65.7	34.1	31.55	2.082	
7,100.0	7,097.9	7,102.5	7,099.6	17.5	16.8	132.70	-69.2	1.3	64.5	32.6	31.86	2.025	
7,200.0	7,197.8	7,202.5	7,199.4	17.8	17.1	131.55	-73.7	5.7	63.3	31.2	32.16	1.969	
7,300.0	7,297.7	7,302.5	7,299.2	18.1	17.4	130.36	-78.2	10.1	62.2	29.8	32.46	1.917	
7,400.0	7,397.6	7,402.5	7,399.0	18.4	17.7	129.12	-82.7	14.5	61.1	28.4	32.74	1.866	
7,500.0	7,497.5	7,502.5	7,498.8	18.8	18.1	127.83	-87.2	18.9	60.0	27.0	33.00	1.819	
7,600.0	7,597.4	7,602.5	7,598.6	19.1	18.4	126.50	-91.7	23.2	59.0	25.7	33.25	1.774	
7,700.0	7,697.3	7,702.4	7,698.4	19.5	18.7	125.12	-96.2	27.6	58.0	24.5	33.47	1.732	
7,800.0	7,797.2	7,802.4	7,798.2	19.8	19.1	123.70	-100.7	32.0	57.0	23.3	33.68	1.692	
7,900.0	7,897.1	7,902.4	7,897.9	20.2	19.4	122.22	-105.2	36.4	56.0	22.2	33.86	1.655	
8,000.0	7,997.0	8,002.4	7,997.7	20.5	19.8	120.70	-109.7	40.8	55.1	21.1	34.02	1.621	
8,100.0	8,096.9	8,102.4	8,097.5	20.9	20.2	119.13	-114.2	45.2	54.3	20.1	34.16	1.589	
8,200.0	8,196.8	8,202.4	8,197.3	21.3	20.5	117.50	-118.7	49.5	53.5	19.2	34.28	1.560	
8,300.0	8,296.7	8,302.4	8,297.1	21.7	20.9	115.83	-123.2	53.9	52.7	18.3	34.37	1.533	
8,400.0	8,396.6	8,402.3	8,396.9	22.0	21.3	114.11	-127.7	58.3	52.0	17.5	34.44	1.509	
8,500.0	8,496.5	8,502.3	8,496.7	22.4	21.7	112.34	-132.2	62.7	51.3	16.8	34.49	1.487 Level 3	
8,600.0	8,596.3	8,602.3	8,596.5	22.8	22.1	110.53	-136.7	67.1	50.6	16.1	34.52	1.467 Level 3	
8,700.0	8,696.2	8,702.3	8,696.3	23.2	22.5	108.67	-141.2	71.5	50.1	15.5	34.54	1.449 Level 3	
8,800.0	8,796.1	8,802.3	8,796.0	23.6	22.9	106.78	-145.7	75.8	49.5	15.0	34.56	1.434 Level 3	
8,900.0	8,896.0	8,902.3	8,895.8	24.0	23.3	104.84	-150.1	80.2	49.1	14.5	34.56	1.420 Level 3	
9,000.0	8,995.9	9,002.2	8,995.6	24.4	23.7	102.87	-154.6	84.6	48.7	14.1	34.57	1.407 Level 3	
9,100.0	9,095.8	9,102.2	9,095.4	24.8	24.1	100.86	-159.1	89.0	48.3	13.7	34.59	1.396 Level 3	
9,200.0	9,195.7	9,202.2	9,195.2	25.2	24.5	98.83	-163.6	93.4	48.0	13.4	34.63	1.386 Level 3	
9,300.0	9,295.6	9,302.2	9,295.0	25.6	24.9	96.78	-168.1	97.7	47.8	13.1	34.70	1.377 Level 3	
9,400.0	9,395.5	9,402.2	9,394.8	26.0	25.4	94.71	-172.6	102.1	47.6	12.8	34.80	1.368 Level 3	
9,500.0	9,495.4	9,502.2	9,494.6	26.4	25.8	92.62	-177.1	106.5	47.5	12.6	34.94	1.359 Level 3	
9,600.0	9,595.3	9,602.2	9,594.3	26.8	26.2	90.53	-181.6	110.9	47.4	12.3	35.14	1.350 Level 3	
9,622.4	9,617.7	9,624.5	9,616.7	26.9	26.3	90.06	-182.6	111.9	47.4	12.3	35.19	1.348 Level 3, CC	
9,700.0	9,695.2	9,702.1	9,694.1	27.2	26.6	88.44	-186.1	115.3	47.5	12.1	35.39	1.341 Level 3	
9,800.0	9,795.1	9,802.1	9,793.9	27.6	27.1	86.36	-190.6	119.7	47.5	11.8	35.71	1.331 Level 3	
9,900.0	9,895.0	9,902.2	9,893.8	28.0	27.5	84.58	-194.9	123.9	47.7	11.6	36.04	1.323 Level 3	
10,000.0	9,994.9	10,002.2	9,993.7	28.4	27.9	84.67	-198.1	127.0	47.7	11.4	36.26	1.314 Level 3	
10,100.0	10,094.8	10,102.3	10,093.7	28.8	28.2	86.86	-200.1	128.9	47.5	11.2	36.33	1.308 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 703H
Project:	Hat Mesa	TVD Reference:	WELL @ 3699.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3699.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 703H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 703H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 556H - Anderson Fed Com 556H - Anderson Fed Com 556H - Prelim 1													Offset Site Error: 0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.0 usft
Reference	Offset	Semi Major Axis		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	
10,177.3	10,172.0	10,179.5	10,171.0	29.2	28.4	90.00	-200.7	129.5	47.5	11.1	36.40	1.304	Level 3
10,200.0	10,194.7	10,202.2	10,193.7	29.3	28.4	91.16	-200.8	129.6	47.5	11.0	36.45	1.302	Level 3
10,300.0	10,294.6	10,302.1	10,293.6	29.7	28.5	96.61	-200.8	129.6	47.8	10.8	37.01	1.291	Level 3
10,400.0	10,394.5	10,402.0	10,393.5	30.1	28.5	101.95	-200.8	129.6	48.5	10.5	38.03	1.275	Level 3
10,500.0	10,494.4	10,501.9	10,493.4	30.5	28.6	107.09	-200.8	129.6	49.7	10.2	39.45	1.259	Level 3
10,600.0	10,594.3	10,601.8	10,593.3	30.9	28.7	111.96	-200.8	129.6	51.2	10.1	41.12	1.244	Level 3
10,700.0	10,694.2	10,701.7	10,693.2	31.4	28.7	116.52	-200.8	129.6	53.0	10.1	42.94	1.235	Level 3
10,800.0	10,794.1	10,801.6	10,793.1	31.8	28.8	120.74	-200.8	129.6	55.2	10.4	44.81	1.232	Level 3
10,900.0	10,894.0	10,901.5	10,893.0	32.2	28.9	124.63	-200.8	129.6	57.7	11.0	46.66	1.237	Level 3
11,000.0	10,993.9	11,001.3	10,992.5	32.6	28.7	133.06	-195.6	129.3	60.4	10.0	50.35	1.199	Level 3, ES, SF
11,100.0	11,093.8	11,094.3	11,082.6	33.1	28.4	154.73	-173.2	127.9	70.1	12.0	58.11	1.207	Level 3
11,195.7	11,189.4	11,171.9	11,153.3	33.5	28.2	174.48	-141.4	125.9	98.2	36.7	61.50	1.597	
11,200.0	11,193.7	11,175.0	11,156.0	33.5	28.2	175.17	-139.9	125.8	99.9	38.4	61.55	1.624	
11,300.0	11,293.6	11,242.5	11,212.4	33.9	28.0	-172.30	-102.9	123.5	148.9	87.0	61.84	2.408	
11,400.0	11,393.6	11,300.0	11,255.8	34.2	27.8	-165.02	-65.5	121.2	210.5	148.5	61.94	3.398	
11,456.4	11,450.0	11,325.0	11,273.3	34.3	27.7	-26.93	-47.6	120.0	249.1	186.9	62.20	4.005	
11,500.0	11,493.6	11,344.0	11,285.9	34.3	27.7	-25.23	-33.4	119.2	280.5	218.1	62.39	4.496	
11,579.0	11,572.5	11,375.0	11,305.2	34.4	27.6	-22.81	-9.2	117.7	340.6	277.8	62.86	5.419	
11,600.0	11,593.6	11,381.6	11,309.1	34.3	27.6	-13.21	-3.9	117.3	356.9	293.9	63.01	5.665	
11,625.0	11,618.5	11,390.7	11,314.4	34.3	27.6	-11.94	3.5	116.9	375.9	312.7	63.17	5.950	
11,650.0	11,643.3	11,400.0	11,319.6	34.2	27.6	-10.85	11.1	116.4	394.3	331.0	63.34	6.225	
11,675.0	11,667.9	11,409.2	11,324.7	34.1	27.6	-9.92	18.9	115.9	412.2	348.7	63.53	6.488	
11,700.0	11,692.3	11,418.7	11,329.7	34.0	27.6	-9.11	26.9	115.4	429.5	365.8	63.72	6.741	
11,725.0	11,716.3	11,425.0	11,333.0	33.9	27.6	-8.49	32.3	115.1	446.3	382.3	64.00	6.974	
11,750.0	11,739.9	11,437.9	11,339.4	33.8	27.5	-7.77	43.4	114.4	462.5	398.4	64.14	7.212	
11,775.0	11,763.1	11,450.0	11,345.2	33.7	27.5	-7.17	54.0	113.7	478.1	413.8	64.30	7.436	
11,800.0	11,785.8	11,457.6	11,348.6	33.6	27.5	-6.73	60.7	113.3	493.1	428.5	64.58	7.635	
11,825.0	11,807.8	11,467.5	11,353.0	33.5	27.5	-6.30	69.6	112.7	507.5	442.7	64.82	7.829	
11,850.0	11,829.2	11,475.0	11,356.2	33.4	27.5	-5.95	76.4	112.3	521.2	456.1	65.11	8.005	
11,875.0	11,850.0	11,487.6	11,361.3	33.3	27.5	-5.56	87.9	111.6	534.3	469.0	65.30	8.182	
11,900.0	11,869.9	11,500.0	11,366.1	33.2	27.5	-5.21	99.3	110.9	546.7	481.2	65.51	8.346	
11,925.0	11,889.1	11,507.9	11,368.9	33.1	27.5	-4.95	106.6	110.4	558.5	492.7	65.81	8.487	
11,950.0	11,907.3	11,518.1	11,372.5	33.0	27.5	-4.69	116.2	109.8	569.6	503.5	66.07	8.621	
11,975.0	11,924.7	11,525.0	11,374.7	32.9	27.5	-4.50	122.7	109.4	580.0	513.6	66.39	8.736	
12,000.0	11,941.1	11,538.7	11,378.9	32.9	27.5	-4.24	135.7	108.6	589.7	523.1	66.59	8.855	
12,025.0	11,956.5	11,550.0	11,382.1	32.8	27.5	-4.03	146.6	108.0	598.7	531.8	66.84	8.957	
12,050.0	11,970.8	11,559.4	11,384.6	32.7	27.6	-3.86	155.7	107.4	606.9	539.8	67.12	9.042	
12,075.0	11,984.0	11,575.0	11,388.3	32.7	27.6	-3.64	170.8	106.4	614.6	547.3	67.31	9.130	
12,100.0	11,996.1	11,575.0	11,388.3	32.6	27.6	-3.59	170.8	106.4	621.4	553.7	67.73	9.175	
12,125.0	12,007.1	11,590.8	11,391.5	32.6	27.6	-3.39	186.2	105.5	627.5	559.6	67.92	9.238	
12,150.0	12,016.9	11,600.0	11,393.1	32.6	27.6	-3.27	195.2	104.9	632.9	564.7	68.20	9.279	
12,175.0	12,025.4	11,611.8	11,395.0	32.6	27.6	-3.14	206.8	104.2	637.5	569.1	68.45	9.314	
12,200.0	12,032.7	11,625.0	11,396.7	32.6	27.7	-3.00	219.9	103.4	641.4	572.8	68.68	9.340	
12,225.0	12,038.7	11,632.8	11,397.6	32.6	27.7	-2.92	227.7	102.9	644.6	575.6	68.97	9.346	
12,250.0	12,043.5	11,650.0	11,399.0	32.6	27.7	-2.77	244.8	101.8	647.1	577.9	69.16	9.357	
12,275.0	12,047.0	11,650.0	11,399.0	32.6	27.7	-2.76	244.8	101.8	648.7	579.2	69.51	9.333	
12,300.0	12,049.1	11,664.5	11,399.7	32.7	27.8	-2.64	259.2	100.9	649.6	579.9	69.72	9.317	
12,325.0	12,050.0	11,675.0	11,400.0	32.7	27.8	-2.56	269.7	100.3	649.8	579.8	69.97	9.287	
12,329.0	12,050.0	11,675.0	11,400.0	32.7	27.8	-2.56	269.7	100.3	649.7	579.7	70.01	9.280	
12,342.6	12,050.0	11,684.4	11,400.0	32.8	27.8	-2.49	279.0	99.7	649.6	579.5	70.10	9.267	
12,400.0	12,050.0	11,742.1	11,400.0	32.9	28.1	-2.07	336.7	96.7	649.4	579.1	70.36	9.231	
12,500.0	12,050.0	11,842.4	11,400.0	33.3	28.6	-1.33	436.9	94.1	649.2	578.3	70.86	9.161	

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 703H
Project:	Hat Mesa	TVD Reference:	WELL @ 3699.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3699.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 703H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 703H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 556H - Anderson Fed Com 556H - Anderson Fed Com 556H - Prelim 1													Offset Site Error:	0.0 usft	
Survey Program: 0-MWD+HRGM				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			
12,600.0	12,050.0	11,942.2	11,400.0	33.9	29.2	-0.72	536.7	93.6	649.1	577.6	71.45	9.084			
12,700.0	12,050.0	12,042.1	11,400.0	34.5	29.9	-0.41	636.7	93.1	649.0	576.9	72.08	9.005			
12,747.8	12,050.0	12,090.0	11,400.0	34.8	30.2	-0.37	684.5	92.9	649.0	576.6	72.38	8.967			
12,800.0	12,050.0	12,142.1	11,400.0	35.2	30.7	-0.37	736.7	92.6	649.0	576.3	72.72	8.925			
12,900.0	12,050.0	12,242.1	11,400.0	35.9	31.6	-0.36	836.7	92.1	649.0	575.6	73.43	8.839			
13,000.0	12,050.0	12,342.1	11,400.0	36.8	32.7	-0.36	936.7	91.6	649.0	574.8	74.19	8.748			
13,100.0	12,050.0	12,442.1	11,400.0	37.8	33.8	-0.35	1,036.7	91.1	649.0	574.0	75.02	8.652			
13,200.0	12,050.0	12,542.1	11,400.0	38.8	35.1	-0.34	1,136.6	90.6	649.0	573.1	75.89	8.552			
13,300.0	12,050.0	12,642.1	11,400.0	40.0	36.4	-0.34	1,236.6	90.1	649.0	572.2	76.82	8.448			
13,400.0	12,050.0	12,742.1	11,400.0	41.2	37.8	-0.33	1,336.6	89.6	649.0	571.2	77.80	8.342			
13,500.0	12,050.0	12,842.1	11,400.0	42.5	39.3	-0.32	1,436.6	89.1	649.0	570.2	78.83	8.233			
13,600.0	12,050.0	12,942.1	11,400.0	43.9	40.8	-0.32	1,536.6	88.6	649.0	569.1	79.91	8.122			
13,700.0	12,050.0	13,042.1	11,400.0	45.3	42.4	-0.31	1,636.6	88.1	649.0	568.0	81.03	8.009			
13,800.0	12,050.0	13,142.1	11,400.0	46.8	44.0	-0.31	1,736.6	87.6	649.0	566.8	82.20	7.896			
13,900.0	12,050.0	13,242.1	11,400.0	48.4	45.6	-0.30	1,836.6	87.1	649.0	565.6	83.40	7.782			
14,000.0	12,050.0	13,342.1	11,400.0	49.9	47.3	-0.29	1,936.6	86.7	649.0	564.4	84.65	7.667			
14,100.0	12,050.0	13,442.1	11,400.0	51.6	49.0	-0.29	2,036.6	86.2	649.0	563.1	85.93	7.553			
14,200.0	12,050.0	13,542.1	11,400.0	53.2	50.7	-0.28	2,136.6	85.7	649.0	561.8	87.25	7.438			
14,300.0	12,050.0	13,642.1	11,400.0	54.9	52.5	-0.28	2,236.6	85.2	649.0	560.4	88.61	7.325			
14,400.0	12,050.0	13,742.1	11,400.0	56.6	54.3	-0.27	2,336.6	84.7	649.0	559.0	89.99	7.212			
14,500.0	12,050.0	13,842.1	11,400.0	58.3	56.0	-0.26	2,436.6	84.2	649.0	557.6	91.41	7.100			
14,600.0	12,050.0	13,942.1	11,400.0	60.0	57.9	-0.26	2,536.6	83.7	649.0	556.1	92.86	6.989			
14,700.0	12,050.0	14,042.1	11,400.0	61.8	59.7	-0.25	2,636.6	83.2	649.0	554.7	94.34	6.879			
14,800.0	12,050.0	14,142.1	11,400.0	63.6	61.5	-0.24	2,736.6	82.7	649.0	553.2	95.84	6.771			
14,900.0	12,050.0	14,242.1	11,400.0	65.4	63.4	-0.24	2,836.6	82.2	649.0	551.6	97.38	6.665			
15,000.0	12,050.0	14,342.1	11,400.0	67.2	65.2	-0.23	2,936.6	81.7	649.0	550.1	98.93	6.560			
15,100.0	12,050.0	14,442.1	11,400.0	69.0	67.1	-0.23	3,036.6	81.2	649.0	548.5	100.51	6.457			
15,200.0	12,050.0	14,542.1	11,400.0	70.8	68.9	-0.22	3,136.6	80.7	649.0	546.9	102.11	6.356			
15,300.0	12,050.0	14,642.1	11,400.0	72.7	70.8	-0.21	3,236.6	80.2	649.0	545.3	103.74	6.256			
15,400.0	12,050.0	14,742.1	11,400.0	74.5	72.7	-0.21	3,336.6	79.7	649.0	543.6	105.38	6.159			
15,500.0	12,050.0	14,842.1	11,400.0	76.4	74.6	-0.20	3,436.6	79.2	649.0	542.0	107.05	6.063			
15,600.0	12,050.0	14,942.1	11,400.0	78.3	76.5	-0.19	3,536.6	78.7	649.0	540.3	108.73	5.969			
15,700.0	12,050.0	15,042.1	11,400.0	80.2	78.4	-0.19	3,636.6	78.2	649.0	538.6	110.43	5.877			
15,800.0	12,050.0	15,142.1	11,400.0	82.0	80.3	-0.18	3,736.6	77.7	649.0	536.9	112.15	5.787			
15,900.0	12,050.0	15,242.1	11,400.0	83.9	82.3	-0.18	3,836.6	77.2	649.0	535.1	113.88	5.699			
16,000.0	12,050.0	15,342.1	11,400.0	85.8	84.2	-0.17	3,936.6	76.7	649.0	533.4	115.63	5.613			
16,100.0	12,050.0	15,442.1	11,400.0	87.7	86.1	-0.16	4,036.6	76.2	649.0	531.6	117.40	5.528			
16,200.0	12,050.0	15,542.1	11,400.0	89.6	88.1	-0.16	4,136.6	75.7	649.0	529.8	119.18	5.446			
16,300.0	12,050.0	15,642.1	11,400.0	91.5	90.0	-0.15	4,236.6	75.2	649.0	528.0	120.97	5.365			
16,400.0	12,050.0	15,742.1	11,400.0	93.5	91.9	-0.15	4,336.6	74.7	649.0	526.2	122.78	5.286			
16,500.0	12,050.0	15,842.1	11,400.0	95.4	93.9	-0.14	4,436.6	74.2	649.0	524.4	124.59	5.209			
16,600.0	12,050.0	15,942.1	11,400.0	97.3	95.8	-0.13	4,536.6	73.7	649.0	522.6	126.42	5.134			
16,700.0	12,050.0	16,042.1	11,400.0	99.2	97.8	-0.13	4,636.6	73.2	649.0	520.7	128.26	5.060			
16,800.0	12,050.0	16,142.1	11,400.0	101.2	99.7	-0.12	4,736.6	72.7	649.0	518.9	130.12	4.988			
16,900.0	12,050.0	16,242.1	11,400.0	103.1	101.7	-0.11	4,836.6	72.2	649.0	517.0	131.98	4.917			
17,000.0	12,050.0	16,342.1	11,400.0	105.1	103.6	-0.11	4,936.6	71.7	649.0	515.1	133.85	4.849			
17,100.0	12,050.0	16,442.1	11,400.0	107.0	105.6	-0.10	5,036.6	71.2	649.0	513.3	135.73	4.781			
17,200.0	12,050.0	16,542.1	11,400.0	108.9	107.6	-0.10	5,136.6	70.7	649.0	511.4	137.62	4.716			
17,300.0	12,050.0	16,642.1	11,400.0	110.9	109.5	-0.09	5,236.6	70.2	649.0	509.5	139.52	4.652			
17,400.0	12,050.0	16,742.1	11,400.0	112.8	111.5	-0.08	5,336.6	69.7	649.0	507.6	141.43	4.589			
17,500.0	12,050.0	16,842.1	11,400.0	114.8	113.4	-0.08	5,436.6	69.2	649.0	505.7	143.35	4.527			
17,600.0	12,050.0	16,942.1	11,400.0	116.7	115.4	-0.07	5,536.6	68.7	649.0	503.7	145.27	4.467			

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 703H
Project:	Hat Mesa	TVD Reference:	WELL @ 3699.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3699.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 703H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 703H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 556H - Anderson Fed Com 556H - Anderson Fed Com 556H - Prelim 1													Offset Site Error:	0.0 usft	
Survey Program: 0-MWD+HRGM				Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
17,700.0	12,050.0	17,042.1	11,400.0	118.7	117.4	-0.06	5,636.6	68.2	649.0	501.8	147.21	4.409			
17,800.0	12,050.0	17,142.1	11,400.0	120.7	119.4	-0.06	5,736.6	67.7	649.0	499.9	149.15	4.351			
17,900.0	12,050.0	17,242.1	11,400.0	122.6	121.3	-0.05	5,836.6	67.2	649.0	497.9	151.09	4.295			
18,000.0	12,050.0	17,342.1	11,400.0	124.6	123.3	-0.05	5,936.6	66.7	649.0	496.0	153.04	4.241			
18,100.0	12,050.0	17,442.1	11,400.0	126.5	125.3	-0.04	6,036.6	66.2	649.0	494.0	155.00	4.187			
18,200.0	12,050.0	17,542.1	11,400.0	128.5	127.3	-0.03	6,136.6	65.7	649.0	492.0	156.97	4.135			
18,300.0	12,050.0	17,642.1	11,400.0	130.5	129.2	-0.03	6,236.6	65.2	649.0	490.1	158.94	4.083			
18,400.0	12,050.0	17,742.1	11,400.0	132.4	131.2	-0.02	6,336.6	64.7	649.0	488.1	160.92	4.033			
18,500.0	12,050.0	17,842.1	11,400.0	134.4	133.2	-0.02	6,436.6	64.2	649.0	486.1	162.90	3.984			
18,600.0	12,050.0	17,942.1	11,400.0	136.4	135.2	-0.01	6,536.6	63.7	649.0	484.1	164.89	3.936			
18,700.0	12,050.0	18,042.1	11,400.0	138.4	137.2	0.00	6,636.6	63.2	649.0	482.1	166.88	3.889			
18,747.6	12,050.0	18,089.7	11,400.0	139.3	138.1	0.00	6,684.1	63.0	649.0	481.2	167.83	3.867			

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 703H
Project:	Hat Mesa	TVD Reference:	WELL @ 3699.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3699.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 703H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 703H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 603H - Anderson Fed Com 603H - Anderson Fed Com 603H - Prelim 1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Highside		Offset Wellbore Centre		Distance		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)		
0.0	0.0	0.0	0.0	0.0	0.0	-91.01	-0.6	-32.4	32.8				
100.0	100.0	95.0	95.0	0.5	0.5	-91.01	-0.6	-32.4	32.4	31.4	1.04	31.081	
200.0	200.0	195.0	195.0	1.7	1.7	-91.01	-0.6	-32.4	32.4	29.0	3.37	9.617	
300.0	300.0	295.0	295.0	2.4	2.4	-91.01	-0.6	-32.4	32.4	27.6	4.79	6.762	
400.0	400.0	395.0	395.0	3.0	2.9	-91.01	-0.6	-32.4	32.4	26.5	5.88	5.507	
500.0	500.0	495.0	495.0	3.4	3.4	-91.01	-0.6	-32.4	32.4	25.6	6.81	4.758	
600.0	600.0	595.0	595.0	3.8	3.8	-91.01	-0.6	-32.4	32.4	24.8	7.63	4.246	
700.0	700.0	695.0	695.0	4.2	4.2	-91.01	-0.6	-32.4	32.4	24.0	8.38	3.868	
800.0	800.0	795.0	795.0	4.5	4.5	-91.01	-0.6	-32.4	32.4	23.3	9.07	3.573	
900.0	900.0	895.0	895.0	4.9	4.8	-91.01	-0.6	-32.4	32.4	22.7	9.72	3.335	
1,000.0	1,000.0	995.0	995.0	5.2	5.2	-91.01	-0.6	-32.4	32.4	22.1	10.33	3.137	
1,100.0	1,100.0	1,095.0	1,095.0	5.5	5.4	-91.01	-0.6	-32.4	32.4	21.5	10.91	2.970	
1,200.0	1,200.0	1,195.0	1,195.0	5.7	5.7	-91.01	-0.6	-32.4	32.4	20.9	11.47	2.825	
1,300.0	1,300.0	1,295.0	1,295.0	6.0	6.0	-91.01	-0.6	-32.4	32.4	20.4	12.00	2.699	
1,400.0	1,400.0	1,395.0	1,395.0	6.3	6.3	-91.01	-0.6	-32.4	32.4	19.9	12.52	2.588	
1,500.0	1,500.0	1,495.0	1,495.0	6.5	6.5	-91.01	-0.6	-32.4	32.4	19.4	13.02	2.488	
1,600.0	1,600.0	1,595.0	1,595.0	6.8	6.7	-91.01	-0.6	-32.4	32.4	18.9	13.51	2.399	
1,700.0	1,700.0	1,695.0	1,695.0	7.0	7.0	-91.01	-0.6	-32.4	32.4	18.4	13.98	2.318	
1,800.0	1,800.0	1,795.0	1,795.0	7.2	7.2	-91.01	-0.6	-32.4	32.4	18.0	14.44	2.244	
1,900.0	1,900.0	1,895.0	1,895.0	7.5	7.4	-91.01	-0.6	-32.4	32.4	17.5	14.89	2.176	
2,000.0	2,000.0	1,995.0	1,995.0	7.7	7.7	-91.01	-0.6	-32.4	32.4	17.1	15.33	2.114	
2,100.0	2,100.0	2,095.0	2,095.0	7.9	7.9	-91.01	-0.6	-32.4	32.4	16.6	15.76	2.056	
2,200.0	2,200.0	2,195.0	2,195.0	8.1	8.1	-91.01	-0.6	-32.4	32.4	16.2	16.18	2.002	
2,300.0	2,300.0	2,295.0	2,295.0	8.3	8.3	-91.01	-0.6	-32.4	32.4	15.8	16.60	1.952	
2,400.0	2,400.0	2,395.0	2,395.0	8.5	8.5	-91.01	-0.6	-32.4	32.4	15.4	17.01	1.905	
2,500.0	2,500.0	2,495.0	2,495.0	8.7	8.7	-91.01	-0.6	-32.4	32.4	15.0	17.41	1.861	
2,600.0	2,600.0	2,595.0	2,595.0	8.9	8.9	-91.01	-0.6	-32.4	32.4	14.6	17.80	1.820	
2,700.0	2,700.0	2,695.0	2,695.0	9.1	9.1	-91.01	-0.6	-32.4	32.4	14.2	18.19	1.781	
2,800.0	2,800.0	2,795.0	2,795.0	9.3	9.3	-91.01	-0.6	-32.4	32.4	13.8	18.58	1.744	
2,900.0	2,900.0	2,895.0	2,895.0	9.5	9.5	-91.01	-0.6	-32.4	32.4	13.4	18.96	1.709	
3,000.0	3,000.0	2,995.0	2,995.0	9.7	9.7	-91.01	-0.6	-32.4	32.4	13.1	19.33	1.676	
3,100.0	3,100.0	3,095.0	3,095.0	9.9	9.8	-91.01	-0.6	-32.4	32.4	12.7	19.70	1.645	
3,200.0	3,200.0	3,195.0	3,195.0	10.0	10.0	-91.01	-0.6	-32.4	32.4	12.3	20.07	1.615	
3,300.0	3,300.0	3,295.0	3,295.0	10.2	10.2	-91.01	-0.6	-32.4	32.4	12.0	20.43	1.586	
3,400.0	3,400.0	3,395.0	3,395.0	10.4	10.4	-91.01	-0.6	-32.4	32.4	11.6	20.79	1.559	
3,500.0	3,500.0	3,495.0	3,495.0	10.6	10.6	-91.01	-0.6	-32.4	32.4	11.3	21.14	1.533	
3,600.0	3,600.0	3,595.0	3,595.0	10.7	10.7	-91.01	-0.6	-32.4	32.4	10.9	21.49	1.508	
3,700.0	3,700.0	3,695.0	3,695.0	10.9	10.9	-91.01	-0.6	-32.4	32.4	10.6	21.84	1.484 Level 3	
3,800.0	3,800.0	3,795.0	3,795.0	11.1	11.1	-91.01	-0.6	-32.4	32.4	10.2	22.18	1.461 Level 3	
3,900.0	3,900.0	3,895.0	3,895.0	11.3	11.3	-91.01	-0.6	-32.4	32.4	9.9	22.52	1.438 Level 3	
4,000.0	4,000.0	3,995.0	3,995.0	11.4	11.4	-91.01	-0.6	-32.4	32.4	9.5	22.86	1.417 Level 3	
4,100.0	4,100.0	4,095.0	4,095.0	11.6	11.6	-91.01	-0.6	-32.4	32.4	9.2	23.20	1.397 Level 3	
4,200.0	4,200.0	4,195.0	4,195.0	11.8	11.8	-91.01	-0.6	-32.4	32.4	8.9	23.53	1.377 Level 3	
4,300.0	4,300.0	4,295.0	4,295.0	11.9	11.9	-91.01	-0.6	-32.4	32.4	8.5	23.86	1.358 Level 3	
4,400.0	4,400.0	4,395.0	4,395.0	12.1	12.1	-91.01	-0.6	-32.4	32.4	8.2	24.19	1.339 Level 3	
4,500.0	4,500.0	4,495.0	4,495.0	12.3	12.3	-91.01	-0.6	-32.4	32.4	7.9	24.52	1.321 Level 3	
4,600.0	4,600.0	4,595.0	4,595.0	12.4	12.4	-91.01	-0.6	-32.4	32.4	7.6	24.84	1.304 Level 3	
4,700.0	4,700.0	4,695.0	4,695.0	12.6	12.6	-91.01	-0.6	-32.4	32.4	7.2	25.16	1.288 Level 3	
4,800.0	4,800.0	4,795.0	4,795.0	12.7	12.7	-91.01	-0.6	-32.4	32.4	6.9	25.48	1.271 Level 3	
4,900.0	4,900.0	4,895.0	4,895.0	12.9	12.9	-91.01	-0.6	-32.4	32.4	6.6	25.80	1.256 Level 3	
5,000.0	5,000.0	4,995.0	4,995.0	13.0	13.1	134.38	-0.6	-32.4	33.0	7.0	26.05	1.267 Level 3	
5,100.0	5,100.0	5,095.0	5,095.0	13.1	13.2	137.44	-0.6	-32.4	34.9	8.6	26.29	1.327 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 703H
Project:	Hat Mesa	TVD Reference:	WELL @ 3699.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3699.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 703H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 703H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 603H - Anderson Fed Com 603H - Anderson Fed Com 603H - Prelim 1													Offset Site Error: 0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.0 usft
Reference	Offset	Rule Assigned:											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,160.7	5,160.6	5,155.6	5,155.6	13.1	13.3	140.00	-0.6	-32.4	36.7	10.3	26.41	1.390	Level 3
5,200.0	5,199.9	5,194.9	5,194.9	13.1	13.4	141.73	-0.6	-32.4	38.1	11.6	26.48	1.439	Level 3
5,300.0	5,299.8	5,294.8	5,294.8	13.2	13.5	145.60	-0.6	-32.4	41.8	15.0	26.73	1.563	
5,400.0	5,399.7	5,394.7	5,394.7	13.4	13.7	148.83	-0.6	-32.4	45.6	18.6	27.00	1.689	
5,500.0	5,499.6	5,494.9	5,494.9	13.5	13.8	151.56	-0.6	-32.3	49.4	22.2	27.23	1.816	
5,600.0	5,599.5	5,595.7	5,595.7	13.7	13.9	154.07	-1.0	-30.8	52.0	24.5	27.46	1.894	
5,700.0	5,699.4	5,696.6	5,696.5	13.9	14.0	156.60	-1.8	-27.7	52.9	25.2	27.74	1.908	
5,800.0	5,799.2	5,797.5	5,797.3	14.0	14.1	159.40	-3.0	-22.8	52.2	24.2	28.05	1.861	
5,900.0	5,899.1	5,898.3	5,897.8	14.2	14.2	162.76	-4.6	-16.1	49.9	21.5	28.39	1.758	
6,000.0	5,999.0	5,998.9	5,998.1	14.5	14.4	167.11	-6.7	-7.8	46.1	17.4	28.77	1.603	
6,100.0	6,098.9	6,098.8	6,097.6	14.7	14.6	172.76	-9.0	1.5	41.7	12.5	29.15	1.430	Level 3
6,200.0	6,198.8	6,198.6	6,196.9	14.9	14.8	179.66	-11.3	10.7	37.7	8.2	29.56	1.276	Level 3
6,300.0	6,298.7	6,298.4	6,296.3	15.2	15.0	-171.98	-13.6	20.0	34.4	4.5	29.93	1.151	Level 3
6,400.0	6,398.6	6,398.3	6,395.6	15.4	15.2	-162.12	-16.0	29.3	32.0	1.8	30.20	1.061	Level 3
6,500.0	6,498.5	6,498.1	6,495.0	15.7	15.5	-151.05	-18.3	38.6	30.7	0.4	30.31	1.013	Level 3
6,558.2	6,556.6	6,556.1	6,552.8	15.8	15.6	-144.32	-19.6	44.0	30.5	0.2	30.30	1.006	Level 3, CC, ES, SF
6,600.0	6,598.4	6,597.9	6,594.3	16.0	15.7	-139.47	-20.6	47.9	30.6	0.3	30.27	1.011	Level 3
6,700.0	6,698.3	6,697.7	6,693.7	16.2	16.0	-128.26	-22.9	57.2	31.7	1.6	30.17	1.052	Level 3
6,800.0	6,798.2	6,797.5	6,793.0	16.5	16.3	-118.17	-25.2	66.4	34.0	3.9	30.12	1.128	Level 3
6,900.0	6,898.1	6,897.3	6,892.4	16.8	16.6	-109.56	-27.5	75.7	37.1	7.0	30.18	1.231	Level 3
7,000.0	6,998.0	6,997.1	6,991.7	17.1	17.0	-102.43	-29.8	85.0	41.0	10.6	30.37	1.350	Level 3
7,100.0	7,097.9	7,096.9	7,091.1	17.5	17.3	-96.60	-32.2	94.3	45.4	14.7	30.66	1.480	Level 3
7,200.0	7,197.8	7,196.7	7,190.4	17.8	17.6	-91.83	-34.5	103.6	50.1	19.1	31.04	1.616	
7,300.0	7,297.7	7,296.5	7,289.8	18.1	18.0	-87.91	-36.8	112.8	55.2	23.7	31.47	1.754	
7,400.0	7,397.6	7,396.3	7,389.1	18.4	18.4	-84.65	-39.1	122.1	60.5	28.5	31.95	1.893	
7,500.0	7,497.5	7,496.1	7,488.4	18.8	18.7	-81.93	-41.4	131.4	65.9	33.4	32.45	2.030	
7,600.0	7,597.4	7,595.9	7,587.8	19.1	19.1	-79.63	-43.7	140.7	71.4	38.5	32.98	2.166	
7,700.0	7,697.3	7,695.8	7,687.1	19.5	19.5	-77.66	-46.0	150.0	77.1	43.6	33.53	2.299	
7,800.0	7,797.2	7,795.6	7,786.5	19.8	19.9	-75.96	-48.4	159.3	82.8	48.7	34.09	2.430	
7,900.0	7,897.1	7,895.4	7,885.8	20.2	20.3	-74.48	-50.7	168.5	88.6	54.0	34.67	2.556	
8,000.0	7,997.0	7,995.2	7,985.2	20.5	20.7	-73.18	-53.0	177.8	94.5	59.2	35.26	2.680	
8,100.0	8,096.9	8,095.0	8,084.5	20.9	21.2	-72.04	-55.3	187.1	100.4	64.5	35.85	2.799	
8,200.0	8,196.8	8,194.8	8,183.9	21.3	21.6	-71.02	-57.6	196.4	106.3	69.8	36.46	2.915	
8,300.0	8,296.7	8,294.6	8,283.2	21.7	22.0	-70.11	-59.9	205.7	112.2	75.2	37.08	3.027	
8,400.0	8,396.6	8,394.4	8,382.6	22.0	22.4	-69.29	-62.2	214.9	118.2	80.5	37.70	3.136	
8,500.0	8,496.5	8,494.2	8,481.9	22.4	22.9	-68.55	-64.6	224.2	124.2	85.9	38.33	3.241	
8,600.0	8,596.3	8,594.0	8,581.3	22.8	23.3	-67.88	-66.9	233.5	130.2	91.3	38.96	3.343	
8,700.0	8,696.2	8,693.8	8,680.6	23.2	23.8	-67.27	-69.2	242.8	136.3	96.7	39.61	3.441	
8,800.0	8,796.1	8,793.6	8,780.0	23.6	24.2	-66.71	-71.5	252.1	142.3	102.1	40.26	3.536	
8,900.0	8,896.0	8,893.4	8,879.3	24.0	24.7	-66.20	-73.8	261.4	148.4	107.5	40.91	3.627	
9,000.0	8,995.9	8,993.2	8,978.7	24.4	25.2	-65.72	-76.1	270.6	154.5	112.9	41.57	3.716	
9,100.0	9,095.8	9,093.1	9,078.0	24.8	25.6	-65.29	-78.4	279.9	160.6	118.3	42.24	3.801	
9,200.0	9,195.7	9,192.9	9,177.4	25.2	26.1	-64.88	-80.8	289.2	166.7	123.7	42.91	3.884	
9,300.0	9,295.6	9,292.7	9,276.7	25.6	26.6	-64.50	-83.1	298.5	172.8	129.2	43.58	3.964	
9,400.0	9,395.5	9,392.5	9,376.1	26.0	27.1	-64.15	-85.4	307.8	178.9	134.6	44.26	4.041	
9,500.0	9,495.4	9,492.3	9,475.4	26.4	27.5	-63.82	-87.7	317.0	185.0	140.0	44.95	4.116	
9,600.0	9,595.3	9,592.1	9,574.8	26.8	28.0	-63.52	-90.0	326.3	191.1	145.5	45.63	4.188	
9,700.0	9,695.2	9,691.9	9,674.1	27.2	28.5	-63.23	-92.3	335.6	197.2	150.9	46.33	4.257	
9,800.0	9,795.1	9,791.7	9,773.5	27.6	29.0	-62.96	-94.6	344.9	203.3	156.3	47.02	4.324	
9,900.0	9,895.0	9,892.2	9,874.0	28.0	29.4	-62.10	-97.6	356.1	214.6	166.5	48.05	4.466	
10,000.0	9,994.9	9,993.5	9,973.5	28.4	29.9	-60.02	-103.2	375.9	238.3	188.7	49.63	4.802	
10,100.0	10,094.8	10,090.0	9,971.4	28.8	30.4	-57.37	-110.8	402.2	274.1	222.7	51.39	5.334	

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



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 703H
Project:	Hat Mesa	TVD Reference:	WELL @ 3699.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3699.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 703H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 703H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 603H - Anderson Fed Com 603H - Anderson Fed Com 603H - Prelim 1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,200.0	10,194.7	10,050.0	10,013.6	29.3	30.7	-55.11	-118.1	427.8	320.9	268.0	52.97	6.058	
10,300.0	10,294.6	10,100.0	10,052.9	29.7	31.1	-52.84	-126.8	457.5	377.1	322.7	54.36	6.936	
10,400.0	10,394.5	10,142.8	10,083.8	30.1	31.3	-50.98	-135.1	486.0	441.0	385.5	55.51	7.945	
10,500.0	10,494.4	10,175.0	10,105.2	30.5	31.5	-49.66	-141.8	509.0	511.1	454.7	56.40	9.063	
10,600.0	10,594.3	10,208.5	10,125.8	30.9	31.7	-48.36	-149.2	534.4	586.2	529.0	57.22	10.245	
10,700.0	10,694.2	10,250.0	10,149.3	31.4	31.9	-47.01	-158.1	567.4	664.9	606.9	58.03	11.458	
10,800.0	10,794.1	10,307.5	10,182.2	31.8	32.2	-46.16	-164.7	614.0	744.5	685.6	58.88	12.644	
10,900.0	10,894.0	10,365.1	10,215.5	32.2	32.5	-46.27	-164.5	661.0	824.3	764.7	59.63	13.823	
11,000.0	10,993.9	10,421.2	10,247.7	32.6	32.7	-47.07	-157.7	706.4	904.3	844.0	60.30	14.997	
11,100.0	11,093.8	10,475.0	10,277.9	33.1	33.0	-48.32	-145.0	749.0	984.7	923.8	60.91	16.167	

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 703H
Project:	Hat Mesa	TVD Reference:	WELL @ 3699.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3699.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 703H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 703H - Prelim 1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 3699.0usft (Original Well Ele

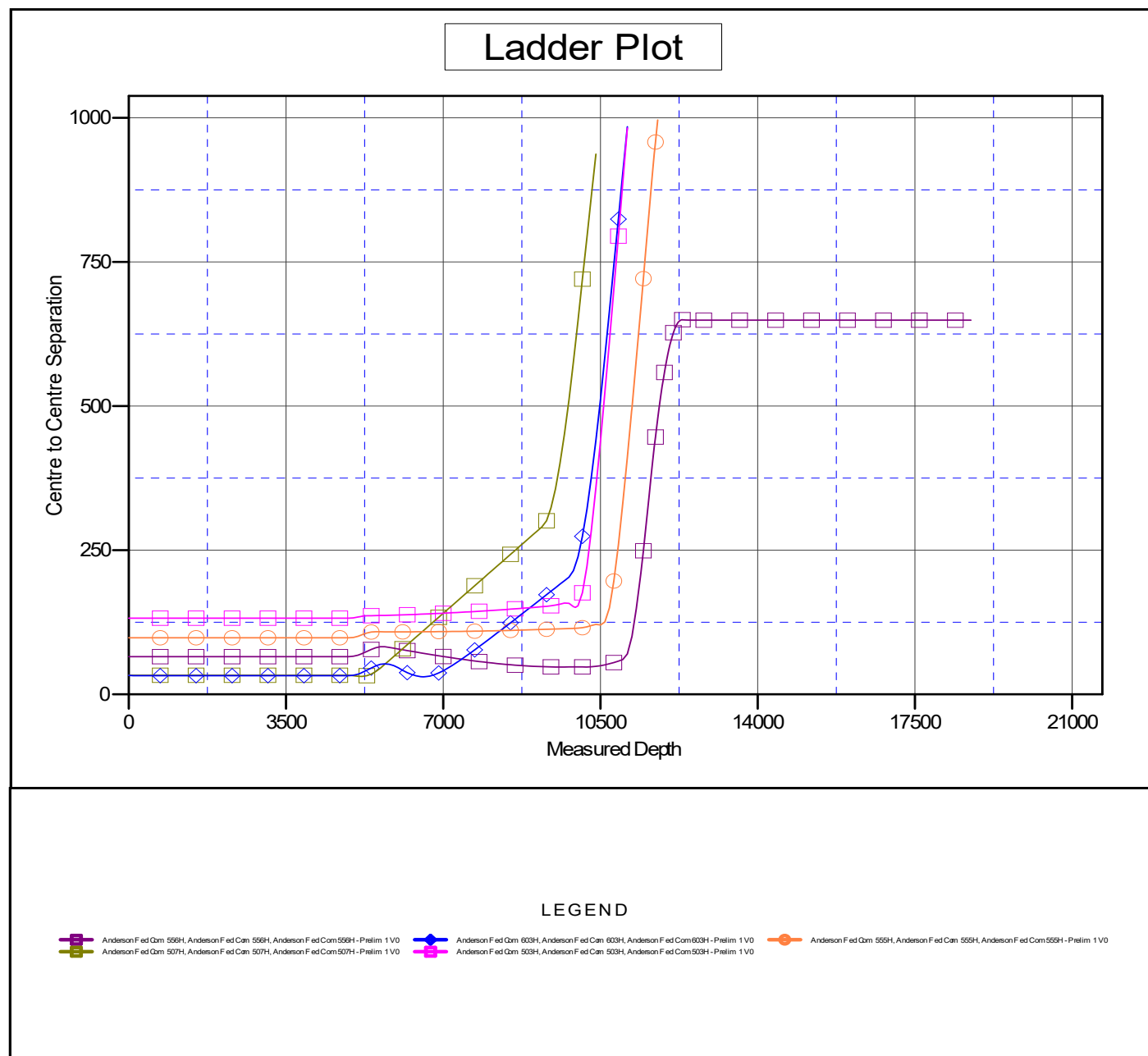
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Anderson Fed Com 703H

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 703H
Project:	Hat Mesa	TVD Reference:	WELL @ 3699.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3699.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 703H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 703H - Prelim 1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 3699.0usft (Original Well Ele

Offset Depths are relative to Offset Datum

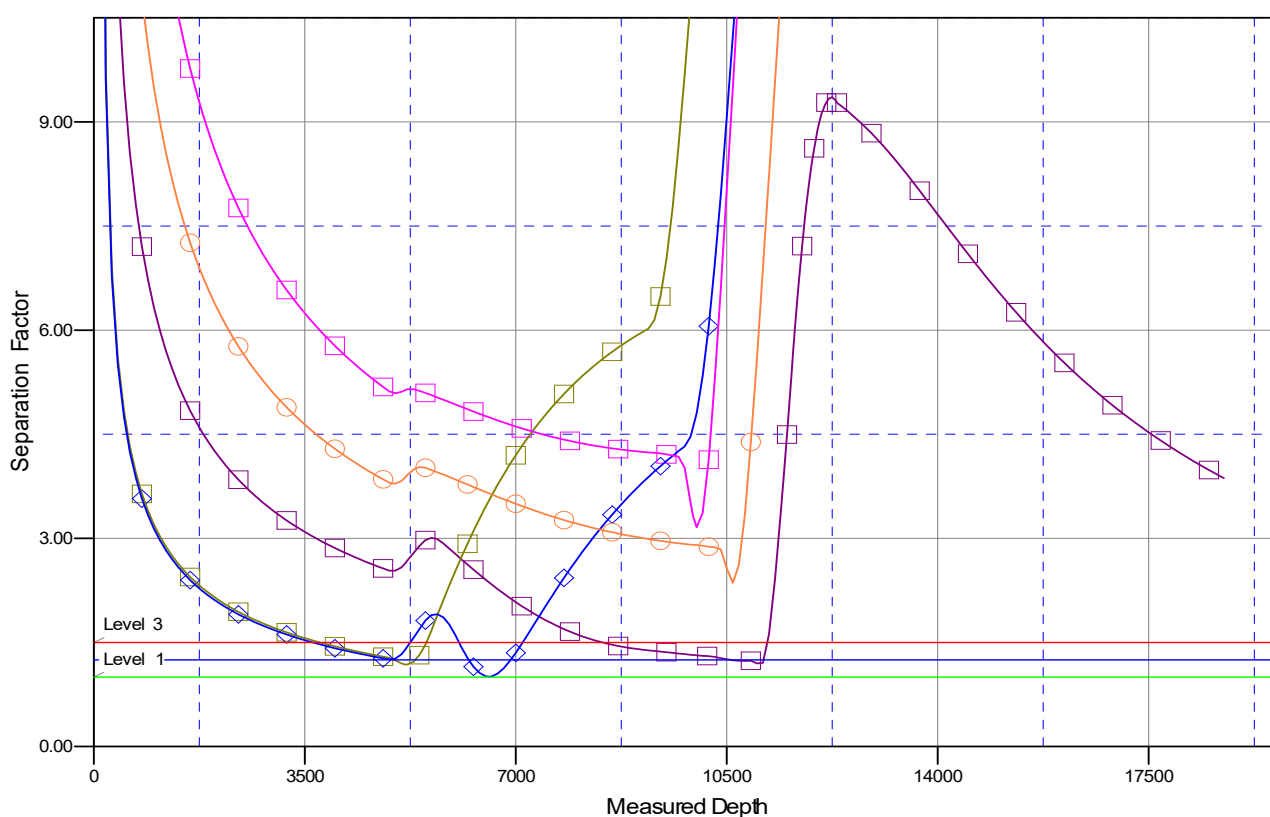
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Anderson Fed Com 703H

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

Grid Convergence at Surface is: 0.37°

Separation Factor Plot



LEGEND

○ Anderson Fed Com 559H, Anderson Fed Com 559H, Anderson Fed Com 559H - Prelim 1 V0
◇ Anderson Fed Com 603H, Anderson Fed Com 603H, Anderson Fed Com 603H - Prelim 1 V0
□ Anderson Fed Com 503H, Anderson Fed Com 503H, Anderson Fed Com 503H - Prelim 1 V0

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

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 62093

CONDITIONS

Operator: ADVANCE ENERGY PARTNERS HAT MESA, LLC 11490 Westheimer Rd., Ste 950 Houston, TX 77077	OGRID: 372417
	Action Number: 62093
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	11/16/2021