

Well Name: ANDERSON FED COM	Well Location: T22S / R32E / SEC 2 / LOT 4 /	County or Parish/State:
Well Number: 501H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM120905	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002548891	Well Status: Approved Application for Permit to Drill	Operator: ADVANCE ENERGY PARTNERS HAT MESA LLC

Notice of Intent

Sundry ID: 2631587

Type of Submission: Notice of Intent

Date Sundry Submitted: 08/31/2021

Date proposed operation will begin: 09/06/2021

Type of Action: Other

Time Sundry Submitted: 12:20

Procedure Description: Request to move Surface Hole Location from 180' FSL & 710' FWL, Section 2, T-22-S, R-32-E, Lot 4 to 180' FSL & 644' FWL, Section 2, T-22-S, R-32-E, Lot 4 and the Bottom Hole Location from 2540' FSL & 990' FWL, Section 26, T-21-S, R-32-E, NWSW to 2540' FSL & 330' FWL, Section 26, T-21-S, R-32-E, NWSW. Please see attached drill plan, directional plan, and plats for detailed information regarding changes to casing, cement, and mud programs.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

Anderson_501H_SHL_BHL_etc_Sundry_Attachments_20210831121850.pdf

Well Name: ANDERSON FED COM	Well Location: T22S / R32E / SEC 2 / LOT 4 /	County or Parish/State:
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Lease Number: NMNM120905	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002548891	Well Status: Approved Application for Permit to Drill	Operator: ADVANCE ENERGY PARTNERS HAT MESA LLC

Operator Certification

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

Operator Electronic Signature: BRIAN WOOD
Signed on: AUG 31, 2021 12:18 PM
Name: ADVANCE ENERGY PARTNERS HAT MESA LLC
Title: President
Street Address: 37 VERANO LOOP
City: SANTA FE **State:** NM
Phone: (505) 466-8120
Email address: AFMSS@PERMITSWEST.COM

Field Representative

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

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS **BLM POC Title:** Petroleum Engineer
BLM POC Phone: 5752342234 **BLM POC Email Address:** cwalls@blm.gov
Disposition: Approved **Disposition Date:** 10/13/2021
Signature: Chris Walls

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone (505) 393-8161 Fax: (505) 393-0720

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

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

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised August 4, 2011

Submit one copy to appropriate
District Office

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-	Pool Code 51683	Pool Name RED TANK; BONE SPRING
Property Code	Property Name ANDERSON FED COM	Well Number 501H
OGRID No. 372417	Operator Name ADVANCE ENERGY PARTNERS HAT MESA, LLC	Elevation 3692'

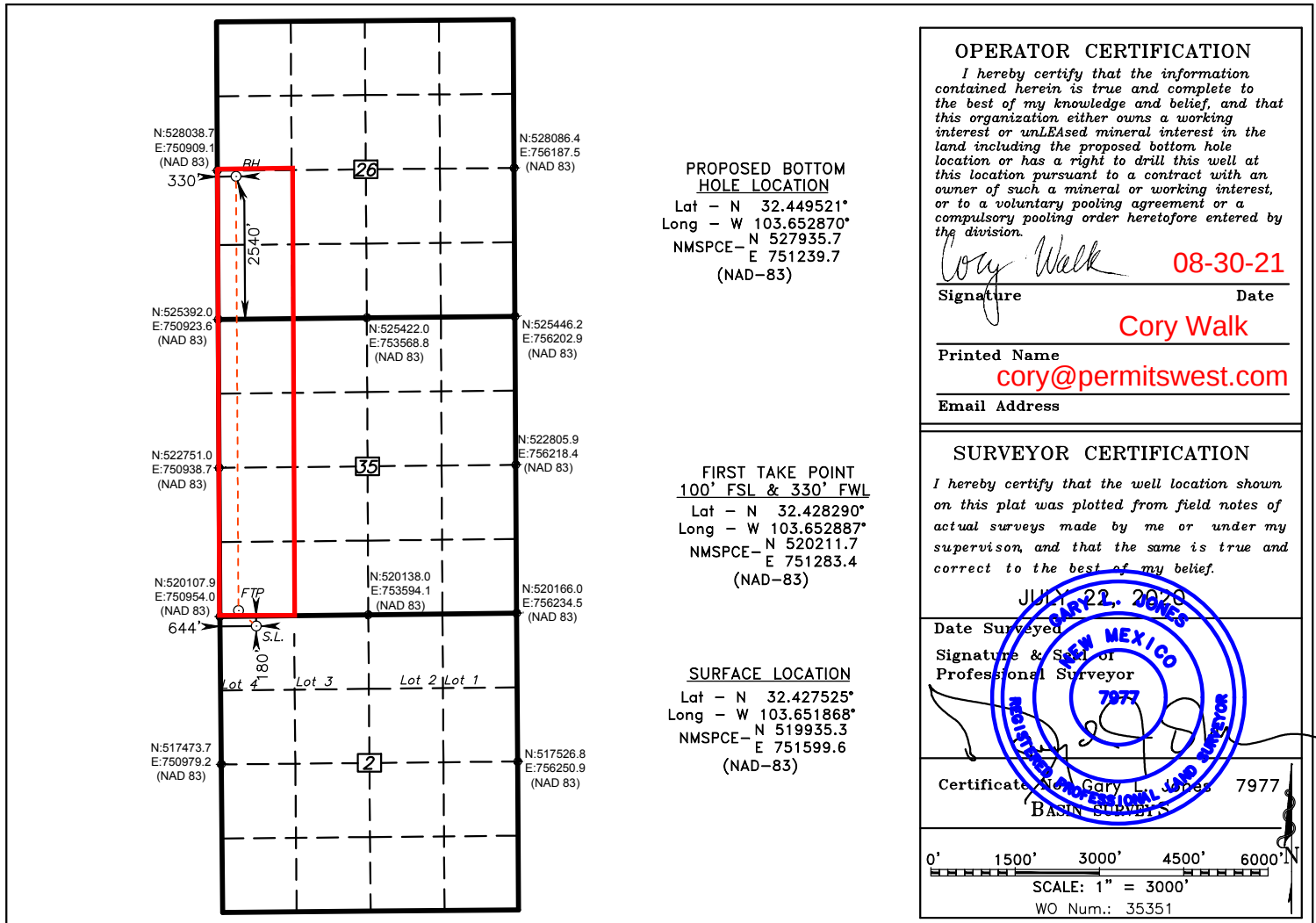
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	SOUTH/South line	Feet from the	East/West line	County
LOT 4	2	22 S	32 E		180	NORTH	644	WEST	LEA

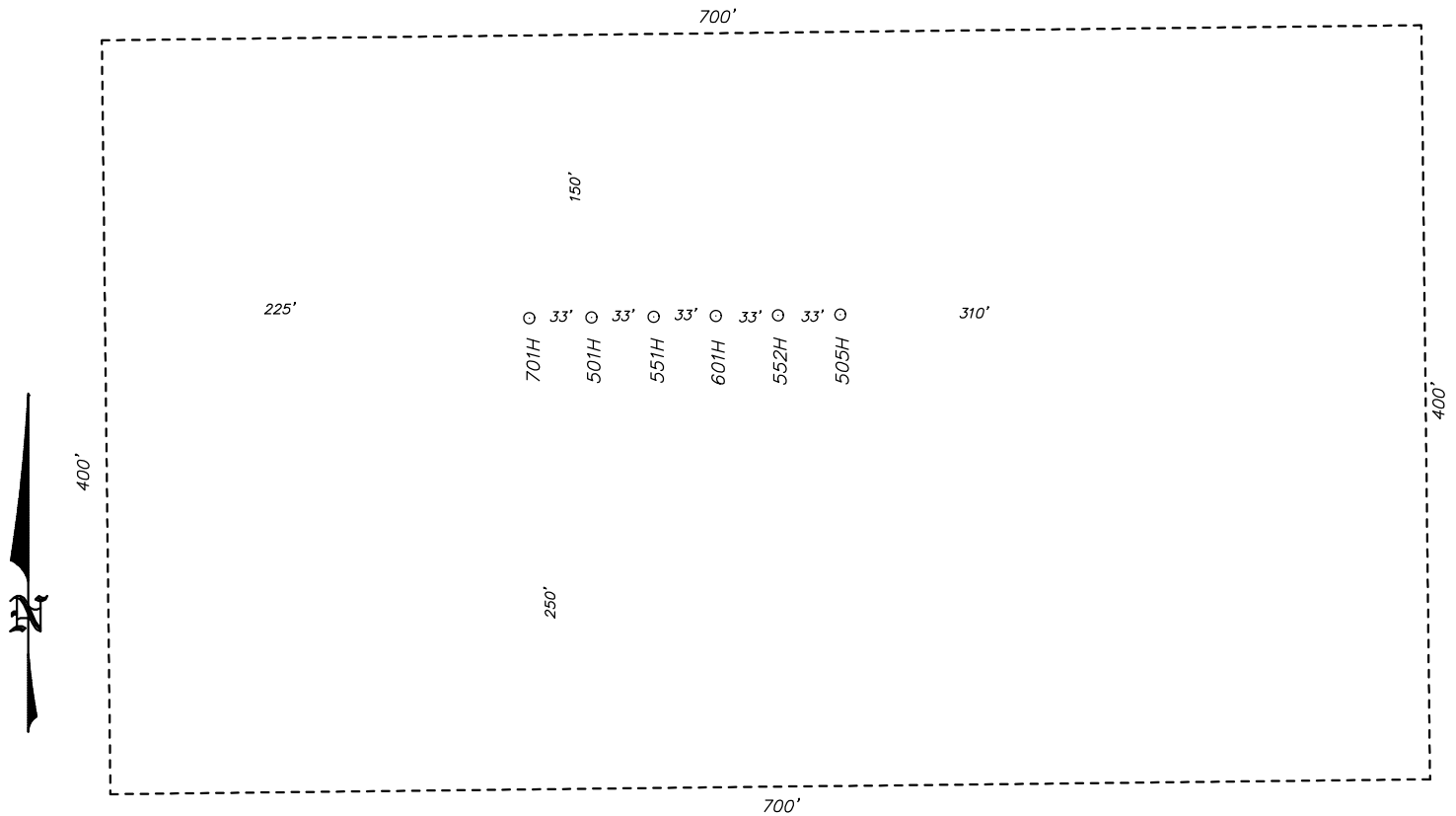
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	SOUTH/South line	Feet from the	East/West line	County
L	26	21 S	32 E		2540	SOUTH	330	WEST	LEA
Dedicated Acres 240.00	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.**



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 basinsurveys.com

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

ADVANCE ENERGY PARTNERS HAT MESA, LLC

REF: ANDERSON FED COM 601H / WELL PAD TOPO

THE ANDERSON FED COM 501H LOCATED 180' FROM
THE NORTH LINE AND 644' FROM THE WEST LINE OF
SECTION 2, TOWNSHIP 22 SOUTH, RANGE 32 EAST.

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

W.O. Number: 35351	Drawn By: K. GOAD	Date: 07-30-2020	Survey Date: 06-10-2021	Sheet 1 of 1 Sheets
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CHANGE TO PLANS

Move Surface Hole Location

From: 180' FSL & 710' FWL, Section 2, T-22-S, R-32-E, Lot 4

To: 180' FSL & 644' FWL, Section 2, T-22-S, R-32-E, Lot 4

Move First Take Point

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

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

Move Bottom Hole Location

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

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

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

Advance Energy Partners Hat Mesa, LLC
 Anderson Fed Com 501H
 SHL 180' FNL & 644' FWL Sec. 2, T. 22 S., R. 32 E.
 BHL 2540' FSL & 330' FWL Sec. 26, T 21 S., R. 32 E.
 Lea County, NM

DRILL PLAN PAGE 1

Drilling Program

1. ESTIMATED TOPS

Formation	TVD	MD	Bearing
Quaternary caliche	000'	000'	water
Rustler anhydrite (surface csg set @ 1243')	1218'	1218'	N/A
Top salt	1425'	1425'	N/A
Tansil limestone (intermediate csg set @ 4746')	3321'	3321'	N/A
Bell Canyon limestone	4796'	4796'	hydrocarbons
Cherry Canyon sandstone	5705'	5705'	hydrocarbons
Lower Brushy Canyon sandstone	8443'	8448'	hydrocarbons
Avalon shale	8963'	8969'	hydrocarbons
1 st Bone Spring sandstone	9830'	9837'	hydrocarbons
(KOP	9998'	10010'	hydrocarbons)
TD	10475'	18485'	hydrocarbons

2. NOTABLE ZONES

Bone Spring is the goal. Closest water well (CP 01701 POD 1) is 0.41-mile north. Water bearing strata were reported at 560' in this 840' deep well.

3. PRESSURE CONTROL

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

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

Advance Energy Partners Hat Mesa, LLC

DRILL PLAN PAGE 2

Anderson Fed Com 501H

SHL 180' FNL & 644' FWL Sec. 2, T. 22 S., R. 32 E.

BHL 2540' FSL & 330' FWL Sec. 26, T 21 S., R. 32 E.

Lea County, NM

Variance is requested to use a speed head (aka, multi-bowl wellhead). Diagram is attached.

4. CASING & CEMENT

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

Hole OD	Set MD	Set TVD	Casing O.D.	Weight (lb/ft)	Grade	Joint	Collapse	Burst	Tension
17.5"	0' - 1243'	0' - 1243'	Surface 13.375"	54.5	J-55	BTC	1.125	1.125	1.6
12.25"	0' - 4000'	0' - 4000'	Intermed. 9.625"	40	J-55	LTC	1.125	1.125	1.6
12.25"	4000' - 4746'	4000' - 4746'	Intermed. 9.625"	40	HCL-80	LTC	1.125	1.125	1.6
8.5"	0' - 18485'	0' - 10475'	Product. 5.5"	20	HCP-110	CDC-HTQ	1.125	1.125	1.6

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

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

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

Advance Energy Partners Hat Mesa, LLC
 Anderson Fed Com 501H
 SHL 180' FNL & 644' FWL Sec. 2, T. 22 S., R. 32 E.
 BHL 2540' FSL & 330' FWL Sec. 26, T 21 S., R. 32 E.
 Lea County, NM

DRILL PLAN PAGE 3

Name	Type	Top MD	Sacks	Yield	Cu. Ft	Weight	Excess	Cement	Additives
Surface	Lead	0	520	1.9	988	12.8	50%	B Poz + C	6% Gel + 5% SALT + 0.25PPS Pol-E-Flake + 0.005GPS NoFoam V1A
	Tail	943	215	1.35	290	14.8	20%	C	2% CaCl2 + 0.005GPS NoFoam V1A
1st Intermediate (stage 1)	Lead	2800	1380	1.84	2539	12.8	708%	B Poz + C	2% Gel + 5% SALT + 0.2% R-1300 + 0.25PPS Pol-E-Flake + 0.005GPS NoFoam V1A
	Tail	3799	310	1.22	378	15.6	20%	H	5% SALT + 0.2% SMS + 0.35% C-20 + 0.005GPS NoFoam V1A
1st Intermediate (stage 2)	Lead	0	455	3	1365	11	153%	ProLite	5PPS Plexcrete STE + 2% SMS + 0.05% SuspendaCem 6302 + 0.5% C-47B + 3PPS Gilsonite + 0.005GPS NoFoam V1A
	Tail	2395	100	1.33	133	14.8	0%	C	0.05% C-20 + 0.005GPS NoFoam V1A
Production	Lead	0	900	3.39	3051	10.7	50%	ProLite	5PPS Plexcrete STE + 2% SMS + 0.05% SuspendaCem 6302 + 0.4% R-1300 + 0.5% C-47B + 3PPS Gilsonite + 0.005GPS NoFoam V1A
	Tail	10010	1925	1.22	2349	14.5	20%	B Poz + H	5% SALT + 0.05% SuspendaCem 6302 + 0.65% C-20 + 0.5% C-47B + 0.005GPS NoFoam V1A

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

5. MUD PROGRAM

An electronic pit volume totalizer (PVT) will be used to monitor volume, flow rate, pump pressure, and stroke rate. All necessary additives (e. g., barite, bentonite, LCM) to maintain mud properties and meet minimum lost circulation and weight increase needs

Advance Energy Partners Hat Mesa, LLC

DRILL PLAN PAGE 4

Anderson Fed Com 501H

SHL 180' FNL & 644' FWL Sec. 2, T. 22 S., R. 32 E.

BHL 2540' FSL & 330' FWL Sec. 26, T 21 S., R. 32 E.

Lea County, NM

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

Type	Interval (MD)	lb/gal	Viscosity	Fluid Loss ml/30 mins
fresh water	0' - 1243'	8.4 – 10.0	28 - 36	N/C
Brine	1243' - 4746'	10.0 – 10.5	28 – 32	N/C
Cut Brine	4746' – 10760'	9.2 – 9.5	28 – 30	N/C
OBM	10760' – 18485'	9.5 – 9.8	55 - 65	<8

6. CORES, TESTS, & LOGS

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

7. DOWN HOLE CONDITIONS

No abnormal pressure or temperature is expected. Maximum expected bottom hole pressure is ≈ 5312 psi. Expected bottom hole temperature is $\approx 223^{\circ}$ F.

H2S monitors and detectors will be used from surface casing point to TD.

8. OTHER INFORMATION

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

**WELL DETAILS: Anderson Fed Com 501H**

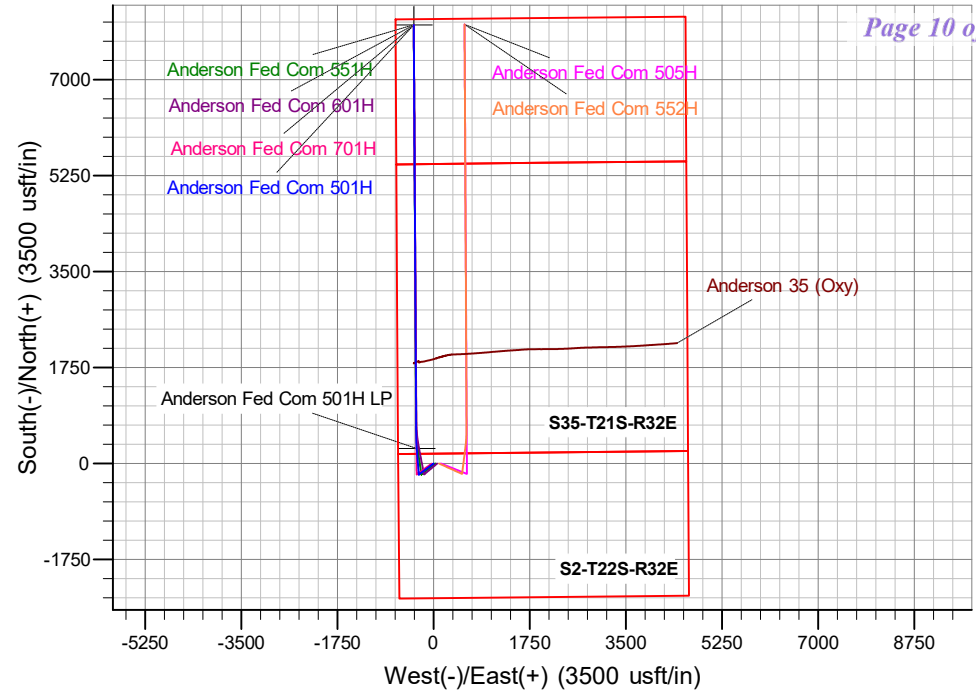
Ground Elev: 3692.0 KB: 3724.5

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	519935.26	751599.66	32° 25' 39.090 N	103° 39' 6.725 W

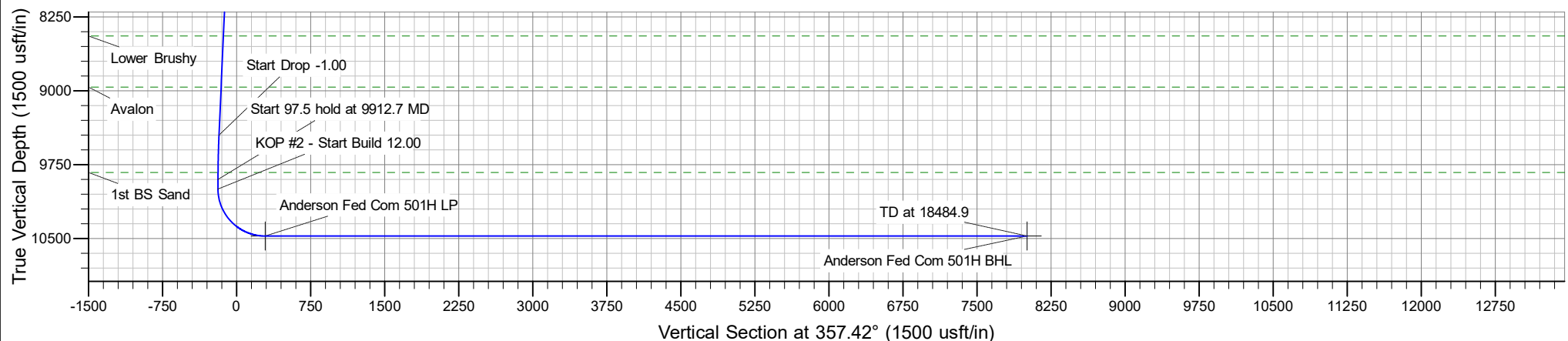
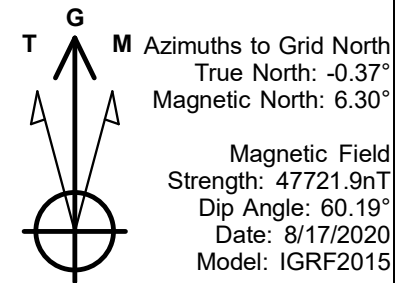
PROJECT DETAILS: Hat Mesa

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

System Datum: Mean Sea Level

**SECTION DETAILS**

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	5200.0	0.00	0.00	5200.0	0.0	0.0	0.00	0.00	0.0	KOP - Start Build 1.00
3	5649.9	4.50	233.27	5649.4	-10.6	-14.1	1.00	233.27	-9.9	Start 3812.9 hold at 5649.9 MD
4	9462.8	4.50	233.27	9450.6	-189.4	-253.9	0.00	0.00	-177.8	Start Drop -1.00
5	9912.7	0.00	0.00	9900.0	-200.0	-268.0	1.00	180.00	-187.7	Start 97.5 hold at 9912.7 MD
6	10010.2	0.00	0.00	9997.5	-200.0	-268.0	0.00	0.00	-187.7	KOP #2 - Start Build 12.00
7	10760.2	90.00	355.44	10475.0	276.0	-306.0	12.00	355.44	289.4	LP - Start DLS 2.00 TFO 90.00
8	10760.6	90.00	355.44	10475.0	276.3	-306.0	0.00	0.00	289.8	LP - Start DLS 2.00 TFO 90.00
9	10971.4	90.00	359.66	10475.0	486.9	-315.0	2.00	90.00	500.6	Start 7513.5 hold at 10971.4 MD
10	18484.9	90.00	359.66	10475.0	8000.3	-360.1	0.00	0.00	8008.4	TD at 18484.9





Advance Energy Partners

Hat Mesa

Anderson Fed Com - Pad D

Anderson Fed Com 501H

Anderson Fed Com 501H

Plan: Anderson Fed Com 501H - Prelim 1

Standard Planning Report

19 August, 2021



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Anderson Fed Com 501H
Company:	Advance Energy Partners	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site:	Anderson Fed Com - Pad D	North Reference:	Grid
Well:	Anderson Fed Com 501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 501H		
Design:	Anderson Fed Com 501H - Prelim 1		

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

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

Well	Anderson Fed Com 501H					
Well Position	+N/-S	0.0 usft	Northing:	519,935.26 usft	Latitude:	32° 25' 39.090 N
	+E/-W	0.0 usft	Easting:	751,599.66 usft	Longitude:	103° 39' 6.725 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,692.0 usft
Grid Convergence:		0.37 °				

Wellbore	Anderson Fed Com 501H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	8/17/2020	6.66	60.19	47,721.90685548

Design	Anderson Fed Com 501H - Prelim 1				
Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	357.42	

Plan Survey Tool Program	Date	8/19/2021			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	18,484.9	Anderson Fed Com 501H - Prelim	MWD+HRGM	
				OWSG MWD + HRGM	



Planning Report

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Project:	Hat Mesa	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site:	Anderson Fed Com - Pad D	North Reference:	Grid
Well:	Anderson Fed Com 501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 501H		
Design:	Anderson Fed Com 501H - Prelim 1		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,649.9	4.50	233.27	5,649.4	-10.6	-14.1	1.00	1.00	0.00	233.27	
9,462.8	4.50	233.27	9,450.6	-189.4	-253.9	0.00	0.00	0.00	0.00	
9,912.7	0.00	0.00	9,900.0	-200.0	-268.0	1.00	-1.00	0.00	180.00	
10,010.2	0.00	0.00	9,997.5	-200.0	-268.0	0.00	0.00	0.00	0.00	
10,760.2	90.00	355.44	10,475.0	276.0	-306.0	12.00	12.00	0.00	355.44	
10,760.6	90.00	355.44	10,475.0	276.3	-306.0	0.00	0.00	0.00	0.00	Anderson Fed Com 501H
10,971.4	90.00	359.66	10,475.0	486.9	-315.0	2.00	0.00	2.00	90.00	
18,484.9	90.00	359.66	10,475.0	8,000.3	-360.1	0.00	0.00	0.00	0.00	Anderson Fed Com 501H



Planning Report

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Company:	Advance Energy Partners	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
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Well:	Anderson Fed Com 501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 501H		
Design:	Anderson Fed Com 501H - 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
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,218.0	0.00	0.00	1,218.0	0.0	0.0	0.0	0.00	0.00	0.00
Rustler									
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
4,796.0	0.00	0.00	4,796.0	0.0	0.0	0.0	0.00	0.00	0.00
Base of Limestone									
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Anderson Fed Com 501H
Company:	Advance Energy Partners	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site:	Anderson Fed Com - Pad D	North Reference:	Grid
Well:	Anderson Fed Com 501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 501H		
Design:	Anderson Fed Com 501H - Prelim 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP - Start Build 1.00									
5,300.0	1.00	233.27	5,300.0	-0.5	-0.7	-0.5	1.00	1.00	0.00
5,400.0	2.00	233.27	5,400.0	-2.1	-2.8	-2.0	1.00	1.00	0.00
5,500.0	3.00	233.27	5,499.9	-4.7	-6.3	-4.4	1.00	1.00	0.00
5,600.0	4.00	233.27	5,599.7	-8.3	-11.2	-7.8	1.00	1.00	0.00
5,649.9	4.50	233.27	5,649.4	-10.6	-14.1	-9.9	1.00	1.00	0.00
Start 3812.9 hold at 5649.9 MD									
5,700.0	4.50	233.27	5,699.4	-12.9	-17.3	-12.1	0.00	0.00	0.00
5,800.0	4.50	233.27	5,799.1	-17.6	-23.6	-16.5	0.00	0.00	0.00
5,900.0	4.50	233.27	5,898.8	-22.3	-29.9	-20.9	0.00	0.00	0.00
6,000.0	4.50	233.27	5,998.5	-27.0	-36.2	-25.3	0.00	0.00	0.00
6,100.0	4.50	233.27	6,098.2	-31.7	-42.4	-29.7	0.00	0.00	0.00
6,200.0	4.50	233.27	6,197.8	-36.4	-48.7	-34.1	0.00	0.00	0.00
6,300.0	4.50	233.27	6,297.5	-41.1	-55.0	-38.5	0.00	0.00	0.00
6,400.0	4.50	233.27	6,397.2	-45.8	-61.3	-42.9	0.00	0.00	0.00
6,500.0	4.50	233.27	6,496.9	-50.4	-67.6	-47.4	0.00	0.00	0.00
6,600.0	4.50	233.27	6,596.6	-55.1	-73.9	-51.8	0.00	0.00	0.00
6,700.0	4.50	233.27	6,696.3	-59.8	-80.2	-56.2	0.00	0.00	0.00
6,800.0	4.50	233.27	6,796.0	-64.5	-86.5	-60.6	0.00	0.00	0.00
6,900.0	4.50	233.27	6,895.7	-69.2	-92.7	-65.0	0.00	0.00	0.00
7,000.0	4.50	233.27	6,995.4	-73.9	-99.0	-69.4	0.00	0.00	0.00
7,100.0	4.50	233.27	7,095.1	-78.6	-105.3	-73.8	0.00	0.00	0.00
7,200.0	4.50	233.27	7,194.8	-83.3	-111.6	-78.2	0.00	0.00	0.00
7,300.0	4.50	233.27	7,294.5	-88.0	-117.9	-82.6	0.00	0.00	0.00
7,400.0	4.50	233.27	7,394.1	-92.7	-124.2	-87.0	0.00	0.00	0.00
7,500.0	4.50	233.27	7,493.8	-97.4	-130.5	-91.4	0.00	0.00	0.00
7,600.0	4.50	233.27	7,593.5	-102.0	-136.7	-95.8	0.00	0.00	0.00
7,700.0	4.50	233.27	7,693.2	-106.7	-143.0	-100.2	0.00	0.00	0.00
7,800.0	4.50	233.27	7,792.9	-111.4	-149.3	-104.6	0.00	0.00	0.00
7,900.0	4.50	233.27	7,892.6	-116.1	-155.6	-109.0	0.00	0.00	0.00
8,000.0	4.50	233.27	7,992.3	-120.8	-161.9	-113.4	0.00	0.00	0.00
8,100.0	4.50	233.27	8,092.0	-125.5	-168.2	-117.8	0.00	0.00	0.00
8,200.0	4.50	233.27	8,191.7	-130.2	-174.5	-122.2	0.00	0.00	0.00
8,300.0	4.50	233.27	8,291.4	-134.9	-180.8	-126.6	0.00	0.00	0.00
8,400.0	4.50	233.27	8,391.1	-139.6	-187.0	-131.0	0.00	0.00	0.00
8,452.1	4.50	233.27	8,443.0	-142.0	-190.3	-133.3	0.00	0.00	0.00
Lower Brushy									
8,500.0	4.50	233.27	8,490.8	-144.3	-193.3	-135.4	0.00	0.00	0.00
8,600.0	4.50	233.27	8,590.4	-149.0	-199.6	-139.8	0.00	0.00	0.00
8,700.0	4.50	233.27	8,690.1	-153.7	-205.9	-144.2	0.00	0.00	0.00
8,800.0	4.50	233.27	8,789.8	-158.3	-212.2	-148.6	0.00	0.00	0.00
8,900.0	4.50	233.27	8,889.5	-163.0	-218.5	-153.0	0.00	0.00	0.00
8,973.7	4.50	233.27	8,963.0	-166.5	-223.1	-156.3	0.00	0.00	0.00
Avalon									
9,000.0	4.50	233.27	8,989.2	-167.7	-224.8	-157.5	0.00	0.00	0.00
9,100.0	4.50	233.27	9,088.9	-172.4	-231.0	-161.9	0.00	0.00	0.00
9,200.0	4.50	233.27	9,188.6	-177.1	-237.3	-166.3	0.00	0.00	0.00
9,300.0	4.50	233.27	9,288.3	-181.8	-243.6	-170.7	0.00	0.00	0.00
9,400.0	4.50	233.27	9,388.0	-186.5	-249.9	-175.1	0.00	0.00	0.00
9,462.8	4.50	233.27	9,450.6	-189.4	-253.9	-177.8	0.00	0.00	0.00



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Project:	Hat Mesa	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site:	Anderson Fed Com - Pad D	North Reference:	Grid
Well:	Anderson Fed Com 501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 501H		
Design:	Anderson Fed Com 501H - 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 Drop -1.00									
9,500.0	4.13	233.27	9,487.7	-191.1	-256.1	-179.4	1.00	-1.00	0.00
9,600.0	3.13	233.27	9,587.5	-194.9	-261.2	-183.0	1.00	-1.00	0.00
9,700.0	2.13	233.27	9,687.4	-197.6	-264.8	-185.5	1.00	-1.00	0.00
9,800.0	1.13	233.27	9,787.3	-199.3	-267.1	-187.1	1.00	-1.00	0.00
9,842.7	0.70	233.27	9,830.0	-199.7	-267.7	-187.5	1.00	-1.00	0.00
1st BS Sand									
9,900.0	0.13	233.27	9,887.3	-200.0	-268.0	-187.7	1.00	-1.00	0.00
9,912.7	0.00	0.00	9,900.0	-200.0	-268.0	-187.7	1.00	-1.00	0.00
Start 97.5 hold at 9912.7 MD									
10,000.0	0.00	0.00	9,987.3	-200.0	-268.0	-187.7	0.00	0.00	0.00
10,010.2	0.00	0.00	9,997.5	-200.0	-268.0	-187.7	0.00	0.00	0.00
KOP #2 - Start Build 12.00									
10,100.0	10.77	355.44	10,086.8	-191.6	-268.7	-179.3	12.00	12.00	0.00
10,200.0	22.77	355.44	10,182.4	-162.9	-271.0	-150.5	12.00	12.00	0.00
10,300.0	34.77	355.44	10,269.9	-115.0	-274.8	-102.5	12.00	12.00	0.00
10,400.0	46.77	355.44	10,345.4	-50.0	-280.0	-37.4	12.00	12.00	0.00
10,500.0	58.77	355.44	10,405.8	29.2	-286.3	42.1	12.00	12.00	0.00
10,600.0	70.77	355.44	10,448.4	119.2	-293.5	132.3	12.00	12.00	0.00
10,700.0	82.77	355.44	10,471.2	216.1	-301.2	229.4	12.00	12.00	0.00
10,760.2	90.00	355.44	10,475.0	276.0	-306.0	289.4	12.00	12.00	0.00
10,760.6	90.00	355.44	10,475.0	276.3	-306.0	289.8	0.00	0.00	0.00
LP - Start DLS 2.00 TFO 90.00 - Anderson Fed Com 501H LP									
10,800.0	90.00	356.23	10,475.0	315.6	-308.9	329.2	2.00	0.00	2.00
10,900.0	90.00	358.23	10,475.0	415.5	-313.7	429.2	2.00	0.00	2.00
10,971.4	90.00	359.66	10,475.0	486.9	-315.0	500.6	2.00	0.00	2.00
Start 7513.5 hold at 10971.4 MD									
11,000.0	90.00	359.66	10,475.0	515.5	-315.2	529.2	0.00	0.00	0.00
11,100.0	90.00	359.66	10,475.0	615.5	-315.8	629.1	0.00	0.00	0.00
11,200.0	90.00	359.66	10,475.0	715.5	-316.4	729.0	0.00	0.00	0.00
11,300.0	90.00	359.66	10,475.0	815.5	-317.0	828.9	0.00	0.00	0.00
11,400.0	90.00	359.66	10,475.0	915.5	-317.6	928.9	0.00	0.00	0.00
11,500.0	90.00	359.66	10,475.0	1,015.5	-318.2	1,028.8	0.00	0.00	0.00
11,600.0	90.00	359.66	10,475.0	1,115.5	-318.8	1,128.7	0.00	0.00	0.00
11,700.0	90.00	359.66	10,475.0	1,215.5	-319.4	1,228.6	0.00	0.00	0.00
11,800.0	90.00	359.66	10,475.0	1,315.5	-320.0	1,328.5	0.00	0.00	0.00
11,900.0	90.00	359.66	10,475.0	1,415.5	-320.6	1,428.5	0.00	0.00	0.00
12,000.0	90.00	359.66	10,475.0	1,515.5	-321.2	1,528.4	0.00	0.00	0.00
12,100.0	90.00	359.66	10,475.0	1,615.5	-321.8	1,628.3	0.00	0.00	0.00
12,200.0	90.00	359.66	10,475.0	1,715.5	-322.4	1,728.2	0.00	0.00	0.00
12,300.0	90.00	359.66	10,475.0	1,815.5	-323.0	1,828.2	0.00	0.00	0.00
12,400.0	90.00	359.66	10,475.0	1,915.5	-323.6	1,928.1	0.00	0.00	0.00
12,500.0	90.00	359.66	10,475.0	2,015.5	-324.2	2,028.0	0.00	0.00	0.00
12,600.0	90.00	359.66	10,475.0	2,115.5	-324.8	2,127.9	0.00	0.00	0.00
12,700.0	90.00	359.66	10,475.0	2,215.5	-325.4	2,227.9	0.00	0.00	0.00
12,800.0	90.00	359.66	10,475.0	2,315.5	-326.0	2,327.8	0.00	0.00	0.00
12,900.0	90.00	359.66	10,475.0	2,415.5	-326.6	2,427.7	0.00	0.00	0.00
13,000.0	90.00	359.66	10,475.0	2,515.5	-327.2	2,527.6	0.00	0.00	0.00
13,100.0	90.00	359.66	10,475.0	2,615.5	-327.8	2,627.6	0.00	0.00	0.00
13,200.0	90.00	359.66	10,475.0	2,715.5	-328.4	2,727.5	0.00	0.00	0.00
13,300.0	90.00	359.66	10,475.0	2,815.5	-329.0	2,827.4	0.00	0.00	0.00
13,400.0	90.00	359.66	10,475.0	2,915.5	-329.6	2,927.3	0.00	0.00	0.00
13,500.0	90.00	359.66	10,475.0	3,015.5	-330.2	3,027.3	0.00	0.00	0.00



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Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
13,600.0	90.00	359.66	10,475.0	3,115.5	-330.8	3,127.2	0.00	0.00	0.00	
13,700.0	90.00	359.66	10,475.0	3,215.5	-331.4	3,227.1	0.00	0.00	0.00	
13,800.0	90.00	359.66	10,475.0	3,315.5	-332.0	3,327.0	0.00	0.00	0.00	
13,900.0	90.00	359.66	10,475.0	3,415.4	-332.6	3,427.0	0.00	0.00	0.00	
14,000.0	90.00	359.66	10,475.0	3,515.4	-333.2	3,526.9	0.00	0.00	0.00	
14,100.0	90.00	359.66	10,475.0	3,615.4	-333.8	3,626.8	0.00	0.00	0.00	
14,200.0	90.00	359.66	10,475.0	3,715.4	-334.4	3,726.7	0.00	0.00	0.00	
14,300.0	90.00	359.66	10,475.0	3,815.4	-335.0	3,826.6	0.00	0.00	0.00	
14,400.0	90.00	359.66	10,475.0	3,915.4	-335.6	3,926.6	0.00	0.00	0.00	
14,500.0	90.00	359.66	10,475.0	4,015.4	-336.2	4,026.5	0.00	0.00	0.00	
14,600.0	90.00	359.66	10,475.0	4,115.4	-336.8	4,126.4	0.00	0.00	0.00	
14,700.0	90.00	359.66	10,475.0	4,215.4	-337.4	4,226.3	0.00	0.00	0.00	
14,800.0	90.00	359.66	10,475.0	4,315.4	-338.0	4,326.3	0.00	0.00	0.00	
14,900.0	90.00	359.66	10,475.0	4,415.4	-338.6	4,426.2	0.00	0.00	0.00	
15,000.0	90.00	359.66	10,475.0	4,515.4	-339.2	4,526.1	0.00	0.00	0.00	
15,100.0	90.00	359.66	10,475.0	4,615.4	-339.8	4,626.0	0.00	0.00	0.00	
15,200.0	90.00	359.66	10,475.0	4,715.4	-340.4	4,726.0	0.00	0.00	0.00	
15,300.0	90.00	359.66	10,475.0	4,815.4	-341.0	4,825.9	0.00	0.00	0.00	
15,400.0	90.00	359.66	10,475.0	4,915.4	-341.6	4,925.8	0.00	0.00	0.00	
15,500.0	90.00	359.66	10,475.0	5,015.4	-342.2	5,025.7	0.00	0.00	0.00	
15,600.0	90.00	359.66	10,475.0	5,115.4	-342.8	5,125.7	0.00	0.00	0.00	
15,700.0	90.00	359.66	10,475.0	5,215.4	-343.4	5,225.6	0.00	0.00	0.00	
15,800.0	90.00	359.66	10,475.0	5,315.4	-344.0	5,325.5	0.00	0.00	0.00	
15,900.0	90.00	359.66	10,475.0	5,415.4	-344.6	5,425.4	0.00	0.00	0.00	
16,000.0	90.00	359.66	10,475.0	5,515.4	-345.2	5,525.4	0.00	0.00	0.00	
16,100.0	90.00	359.66	10,475.0	5,615.4	-345.8	5,625.3	0.00	0.00	0.00	
16,200.0	90.00	359.66	10,475.0	5,715.4	-346.4	5,725.2	0.00	0.00	0.00	
16,300.0	90.00	359.66	10,475.0	5,815.4	-347.0	5,825.1	0.00	0.00	0.00	
16,400.0	90.00	359.66	10,475.0	5,915.4	-347.6	5,925.1	0.00	0.00	0.00	
16,500.0	90.00	359.66	10,475.0	6,015.4	-348.2	6,025.0	0.00	0.00	0.00	
16,600.0	90.00	359.66	10,475.0	6,115.4	-348.8	6,124.9	0.00	0.00	0.00	
16,700.0	90.00	359.66	10,475.0	6,215.4	-349.4	6,224.8	0.00	0.00	0.00	
16,800.0	90.00	359.66	10,475.0	6,315.4	-350.0	6,324.7	0.00	0.00	0.00	
16,900.0	90.00	359.66	10,475.0	6,415.4	-350.6	6,424.7	0.00	0.00	0.00	
17,000.0	90.00	359.66	10,475.0	6,515.4	-351.2	6,524.6	0.00	0.00	0.00	
17,100.0	90.00	359.66	10,475.0	6,615.4	-351.8	6,624.5	0.00	0.00	0.00	
17,200.0	90.00	359.66	10,475.0	6,715.4	-352.4	6,724.4	0.00	0.00	0.00	
17,300.0	90.00	359.66	10,475.0	6,815.4	-353.0	6,824.4	0.00	0.00	0.00	
17,400.0	90.00	359.66	10,475.0	6,915.4	-353.6	6,924.3	0.00	0.00	0.00	
17,500.0	90.00	359.66	10,475.0	7,015.4	-354.2	7,024.2	0.00	0.00	0.00	
17,600.0	90.00	359.66	10,475.0	7,115.4	-354.8	7,124.1	0.00	0.00	0.00	
17,700.0	90.00	359.66	10,475.0	7,215.4	-355.4	7,224.1	0.00	0.00	0.00	
17,800.0	90.00	359.66	10,475.0	7,315.4	-356.0	7,324.0	0.00	0.00	0.00	
17,900.0	90.00	359.66	10,475.0	7,415.4	-356.6	7,423.9	0.00	0.00	0.00	
18,000.0	90.00	359.66	10,475.0	7,515.4	-357.2	7,523.8	0.00	0.00	0.00	
18,100.0	90.00	359.66	10,475.0	7,615.4	-357.8	7,623.8	0.00	0.00	0.00	
18,200.0	90.00	359.66	10,475.0	7,715.4	-358.4	7,723.7	0.00	0.00	0.00	
18,300.0	90.00	359.66	10,475.0	7,815.4	-359.0	7,823.6	0.00	0.00	0.00	
18,400.0	90.00	359.66	10,475.0	7,915.4	-359.6	7,923.5	0.00	0.00	0.00	
18,484.9	90.00	359.66	10,475.0	8,000.3	-360.1	8,008.4	0.00	0.00	0.00	
TD at 18484.9 - Anderson Fed Com 501H BHL										



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Anderson Fed Com 501H
Company:	Advance Energy Partners	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site:	Anderson Fed Com - Pad D	North Reference:	Grid
Well:	Anderson Fed Com 501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 501H		
Design:	Anderson Fed Com 501H - Prelim 1		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
Anderson Fed Com 501I - plan hits target center - Point	0.00	0.01	10,475.0	276.3	-306.0	520,211.57	751,293.66	32° 25' 41.843 N	103° 39' 10.274 W
Anderson Fed Com 501I - plan hits target center - Point	0.00	0.01	10,475.0	8,000.3	-360.1	527,935.53	751,239.51	32° 26' 58.276 N	103° 39' 10.332 W

Casing Points					
Measured Depth	Vertical Depth			Casing Diameter	Hole Diameter
(usft)	(usft)	Name		(")	(")
10,760.2	10,475.0	LP		5-1/2	5-1/2

Formations					
Measured Depth	Vertical Depth			Dip	Dip Direction
(usft)	(usft)	Name	Lithology	(°)	(°)
1,218.0	1,218.0	Rustler		0.00	
4,796.0	4,796.0	Base of Limestone		0.00	
8,452.1	8,443.0	Lower Brushy		0.00	
8,973.7	8,963.0	Avalon		0.00	
9,842.7	9,830.0	1st BS Sand		0.00	

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates			
(usft)	(usft)	+N/-S	+E/-W	Comment	
(usft)	(usft)	(usft)	(usft)		
5,200.0	5,200.0	0.0	0.0	KOP - Start Build 1.00	
5,649.9	5,649.4	-10.6	-14.1	Start 3812.9 hold at 5649.9 MD	
9,462.8	9,450.6	-189.4	-253.9	Start Drop -1.00	
9,912.7	9,900.0	-200.0	-268.0	Start 97.5 hold at 9912.7 MD	
10,010.2	9,997.5	-200.0	-268.0	KOP #2 - Start Build 12.00	
10,760.6	10,475.0	276.3	-306.0	LP - Start DLS 2.00 TFO 90.00	
10,971.4	10,475.0	486.9	-315.0	Start 7513.5 hold at 10971.4 MD	
18,484.9	10,475.0	8,000.3	-360.1	TD at 18484.9	



Advance Energy Partners

Hat Mesa

Anderson Fed Com - Pad D

Anderson Fed Com 501H

Anderson Fed Com 501H

Anderson Fed Com 501H - Prelim 1

Anticollision Report

19 August, 2021



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 501H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 501H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 501H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 501H - Prelim 1	Offset TVD Reference:	Offset Datum

Reference	Anderson Fed Com 501H - 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	8/19/2021			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	18,484.9	Anderson Fed Com 501H - Prelim 1 (Ande	MWD+HRGM	OWSG MWD + HRGM	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Anderson Fed Com - Pad A						
Anderson 35 (Oxy) - Anderson 35 - Anderson 35	12,355.0	10,375.9	216.4	140.6	2.854	CC, ES, SF
Anderson Fed Com - Pad D						
Anderson Fed Com 505H - Anderson Fed Com 505H - A	5,000.0	4,993.0	132.1	106.0	5.057	CC, ES
Anderson Fed Com 505H - Anderson Fed Com 505H - A	18,484.9	18,220.4	962.3	640.8	2.993	SF
Anderson Fed Com 551H - Anderson Fed Com 551H - A	5,200.0	5,200.0	33.0	6.3	1.234	Level 3, CC
Anderson Fed Com 551H - Anderson Fed Com 551H - A	10,075.0	10,075.6	54.2	2.2	1.043	Level 3, ES, SF
Anderson Fed Com 552H - Anderson Fed Com 552H - A	5,000.0	4,998.0	99.0	72.9	3.792	CC, ES
Anderson Fed Com 552H - Anderson Fed Com 552H - A	5,100.0	5,096.5	99.8	73.4	3.783	SF
Anderson Fed Com 601H - Anderson Fed Com 601H - A	5,200.0	5,199.0	66.0	39.3	2.469	CC, ES, SF
Anderson Fed Com 701H - Anderson Fed Com 701H - A	5,000.0	5,000.0	33.0	6.9	1.264	Level 3, CC
Anderson Fed Com 701H - Anderson Fed Com 701H - A	9,500.0	9,503.1	52.2	1.5	1.030	Level 3, ES, SF

Offset Design:	Anderson Fed Com - Pad A - Anderson 35 (Oxy) - Anderson 35 - Anderson 35										Offset Site Error:	0.0 usft
Survey Program:	109-MWD+HRGM										Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre	Distance	Rule Assigned:	Minimum	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor		
11,400.0	10,475.0	10,306.9	10,291.5	34.1	35.5	45.13	1,864.3	-160.6	975.3	924.6	50.65	19.256
11,500.0	10,475.0	10,313.0	10,297.1	35.2	35.5	46.54	1,864.9	-158.2	878.4	827.4	50.94	17.242
11,600.0	10,475.0	10,319.3	10,302.8	36.4	35.5	48.04	1,865.5	-155.7	782.2	730.8	51.37	15.226
11,700.0	10,475.0	10,325.8	10,308.7	37.7	35.6	49.63	1,866.1	-153.1	687.0	635.0	52.00	13.212
11,800.0	10,475.0	10,332.0	10,314.4	39.1	35.6	51.17	1,866.7	-150.5	593.2	540.3	52.93	11.208
11,900.0	10,475.0	10,339.0	10,320.7	40.5	35.6	52.93	1,867.4	-147.5	501.8	447.4	54.42	9.221
12,000.0	10,475.0	10,346.1	10,327.1	42.0	35.7	54.75	1,868.1	-144.5	414.2	357.4	56.82	7.289
12,100.0	10,475.0	10,353.9	10,334.0	43.5	35.7	56.74	1,869.0	-141.2	333.4	272.6	60.81	5.483
12,200.0	10,475.0	10,363.0	10,342.2	45.0	35.8	59.12	1,870.0	-137.2	265.7	198.6	67.07	3.961
12,300.0	10,475.0	10,370.9	10,349.2	46.6	35.8	61.20	1,871.0	-133.6	223.2	149.3	73.92	3.020
12,355.0	10,475.0	10,375.9	10,353.6	47.5	35.8	62.52	1,871.6	-131.3	216.4	140.6	75.82	2.854 CC, ES, SF
12,400.0	10,475.0	10,380.2	10,357.4	48.3	35.8	63.64	1,872.1	-129.4	221.0	145.5	75.49	2.928
12,500.0	10,475.0	10,390.4	10,366.2	49.9	35.9	66.30	1,873.4	-124.6	260.0	189.6	70.45	3.691
12,600.0	10,475.0	10,395.0	10,370.3	51.6	35.9	67.50	1,874.0	-122.4	325.8	261.5	64.35	5.064
12,700.0	10,475.0	10,407.7	10,381.2	53.3	36.0	70.77	1,875.7	-116.1	405.5	345.2	60.28	6.728
12,800.0	10,475.0	10,415.4	10,387.7	55.1	36.0	72.71	1,876.7	-112.2	492.5	435.0	57.53	8.561

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 501H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 501H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 501H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 501H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad A - Anderson 35 (Oxy) - Anderson 35 - Anderson 35													Offset Site Error:	0.0 usft
Survey Program: 109-MWD+HRGM													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
12,900.0	10,475.0	10,426.0	10,396.6	56.8	36.1	75.29	1,878.1	-106.5	583.5	527.7	55.79	10.459		
13,000.0	10,475.0	10,426.0	10,396.6	58.6	36.1	75.29	1,878.1	-106.5	676.9	622.4	54.56	12.408		
13,100.0	10,475.0	10,438.3	10,406.7	60.4	36.2	78.19	1,879.6	-99.7	771.8	718.0	53.80	14.345		
13,200.0	10,475.0	10,446.0	10,412.9	62.2	36.2	79.91	1,880.5	-95.3	867.8	814.5	53.26	16.293		
13,300.0	10,475.0	10,458.0	10,422.6	64.0	36.3	82.50	1,882.0	-88.2	964.5	911.6	52.90	18.232		



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 501H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 501H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 501H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 501H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 505H - Anderson Fed Com 505H - Anderson Fed Com 505H - Prelim 1													Offset Site Error: 0.0 usft		
Survey Program: 0-MWD+HRGM				Rule Assigned:										Offset Well Error: 0.0 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
0.0	0.0	0.0	0.0	0.0	0.0	89.32	1.6	132.1	132.2						
100.0	100.0	93.0	93.0	0.5	0.5	89.32	1.6	132.1	132.1	131.0	1.02	129.070			
200.0	200.0	193.0	193.0	1.7	1.6	89.32	1.6	132.1	132.1	128.7	3.34	39.530			
300.0	300.0	293.0	293.0	2.4	2.4	89.32	1.6	132.1	132.1	127.3	4.77	27.663			
400.0	400.0	393.0	393.0	3.0	2.9	89.32	1.6	132.1	132.1	126.2	5.87	22.498			
500.0	500.0	493.0	493.0	3.4	3.4	89.32	1.6	132.1	132.1	125.3	6.80	19.427			
600.0	600.0	593.0	593.0	3.8	3.8	89.32	1.6	132.1	132.1	124.4	7.62	17.331			
700.0	700.0	693.0	693.0	4.2	4.2	89.32	1.6	132.1	132.1	123.7	8.37	15.782			
800.0	800.0	793.0	793.0	4.5	4.5	89.32	1.6	132.1	132.1	123.0	9.06	14.577			
900.0	900.0	893.0	893.0	4.9	4.8	89.32	1.6	132.1	132.1	122.4	9.71	13.604			
1,000.0	1,000.0	993.0	993.0	5.2	5.1	89.32	1.6	132.1	132.1	121.7	10.32	12.797			
1,100.0	1,100.0	1,093.0	1,093.0	5.5	5.4	89.32	1.6	132.1	132.1	121.2	10.90	12.113			
1,200.0	1,200.0	1,193.0	1,193.0	5.7	5.7	89.32	1.6	132.1	132.1	120.6	11.46	11.524			
1,300.0	1,300.0	1,293.0	1,293.0	6.0	6.0	89.32	1.6	132.1	132.1	120.1	12.00	11.009			
1,400.0	1,400.0	1,393.0	1,393.0	6.3	6.2	89.32	1.6	132.1	132.1	119.6	12.51	10.554			
1,500.0	1,500.0	1,493.0	1,493.0	6.5	6.5	89.32	1.6	132.1	132.1	119.1	13.01	10.148			
1,600.0	1,600.0	1,593.0	1,593.0	6.8	6.7	89.32	1.6	132.1	132.1	118.6	13.50	9.783			
1,700.0	1,700.0	1,693.0	1,693.0	7.0	7.0	89.32	1.6	132.1	132.1	118.1	13.97	9.452			
1,800.0	1,800.0	1,793.0	1,793.0	7.2	7.2	89.32	1.6	132.1	132.1	117.6	14.43	9.150			
1,900.0	1,900.0	1,893.0	1,893.0	7.4	7.4	89.32	1.6	132.1	132.1	117.2	14.88	8.873			
2,000.0	2,000.0	1,993.0	1,993.0	7.7	7.7	89.32	1.6	132.1	132.1	116.7	15.32	8.618			
2,100.0	2,100.0	2,093.0	2,093.0	7.9	7.9	89.32	1.6	132.1	132.1	116.3	15.76	8.382			
2,200.0	2,200.0	2,193.0	2,193.0	8.1	8.1	89.32	1.6	132.1	132.1	115.9	16.18	8.163			
2,300.0	2,300.0	2,293.0	2,293.0	8.3	8.3	89.32	1.6	132.1	132.1	115.5	16.59	7.959			
2,400.0	2,400.0	2,393.0	2,393.0	8.5	8.5	89.32	1.6	132.1	132.1	115.1	17.00	7.768			
2,500.0	2,500.0	2,493.0	2,493.0	8.7	8.7	89.32	1.6	132.1	132.1	114.7	17.40	7.589			
2,600.0	2,600.0	2,593.0	2,593.0	8.9	8.9	89.32	1.6	132.1	132.1	114.3	17.80	7.420			
2,700.0	2,700.0	2,693.0	2,693.0	9.1	9.1	89.32	1.6	132.1	132.1	113.9	18.19	7.261			
2,800.0	2,800.0	2,793.0	2,793.0	9.3	9.3	89.32	1.6	132.1	132.1	113.5	18.57	7.111			
2,900.0	2,900.0	2,893.0	2,893.0	9.5	9.5	89.32	1.6	132.1	132.1	113.1	18.95	6.968			
3,000.0	3,000.0	2,993.0	2,993.0	9.7	9.7	89.32	1.6	132.1	132.1	112.7	19.33	6.833			
3,100.0	3,100.0	3,093.0	3,093.0	9.9	9.8	89.32	1.6	132.1	132.1	112.4	19.70	6.705			
3,200.0	3,200.0	3,193.0	3,193.0	10.0	10.0	89.32	1.6	132.1	132.1	112.0	20.06	6.583			
3,300.0	3,300.0	3,293.0	3,293.0	10.2	10.2	89.32	1.6	132.1	132.1	111.6	20.42	6.466			
3,400.0	3,400.0	3,393.0	3,393.0	10.4	10.4	89.32	1.6	132.1	132.1	111.3	20.78	6.355			
3,500.0	3,500.0	3,493.0	3,493.0	10.6	10.6	89.32	1.6	132.1	132.1	110.9	21.14	6.248			
3,600.0	3,600.0	3,593.0	3,593.0	10.7	10.7	89.32	1.6	132.1	132.1	110.6	21.49	6.146			
3,700.0	3,700.0	3,693.0	3,693.0	10.9	10.9	89.32	1.6	132.1	132.1	110.2	21.83	6.048			
3,800.0	3,800.0	3,793.0	3,793.0	11.1	11.1	89.32	1.6	132.1	132.1	109.9	22.18	5.955			
3,900.0	3,900.0	3,893.0	3,893.0	11.3	11.3	89.32	1.6	132.1	132.1	109.5	22.52	5.864			
4,000.0	4,000.0	3,993.0	3,993.0	11.4	11.4	89.32	1.6	132.1	132.1	109.2	22.86	5.777			
4,100.0	4,100.0	4,093.0	4,093.0	11.6	11.6	89.32	1.6	132.1	132.1	108.9	23.20	5.694			
4,200.0	4,200.0	4,193.0	4,193.0	11.8	11.8	89.32	1.6	132.1	132.1	108.5	23.53	5.613			
4,300.0	4,300.0	4,293.0	4,293.0	11.9	11.9	89.32	1.6	132.1	132.1	108.2	23.86	5.535			
4,400.0	4,400.0	4,393.0	4,393.0	12.1	12.1	89.32	1.6	132.1	132.1	107.9	24.19	5.460			
4,500.0	4,500.0	4,493.0	4,493.0	12.3	12.3	89.32	1.6	132.1	132.1	107.6	24.51	5.387			
4,600.0	4,600.0	4,593.0	4,593.0	12.4	12.4	89.32	1.6	132.1	132.1	107.2	24.84	5.317			
4,700.0	4,700.0	4,693.0	4,693.0	12.6	12.6	89.32	1.6	132.1	132.1	106.9	25.16	5.249			
4,800.0	4,800.0	4,793.0	4,793.0	12.7	12.7	89.32	1.6	132.1	132.1	106.6	25.48	5.183			
4,900.0	4,900.0	4,893.0	4,893.0	12.9	12.9	89.32	1.6	132.1	132.1	106.3	25.80	5.119			
5,000.0	5,000.0	4,993.0	4,993.0	13.1	13.1	89.32	1.6	132.1	132.1	106.0	26.11	5.057 CC, ES			
5,100.0	5,100.0	5,091.1	5,091.0	13.2	13.2	89.44	1.3	132.7	132.7	106.4	26.38	5.033			

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 501H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 501H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 501H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 501H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 505H - Anderson Fed Com 505H - Anderson Fed Com 505H - Prelim 1													Offset Site Error: 0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.0 usft
Reference	Offset	Rule Assigned:											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre		Distance				Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.0	5,200.0	5,188.9	5,188.9	13.4	13.3	89.82	0.4	134.9	135.0	108.4	26.63	5.070	
5,300.0	5,300.0	5,286.6	5,286.6	13.5	13.4	-143.00	-1.1	138.7	139.6	112.7	26.83	5.203	
5,400.0	5,400.0	5,384.1	5,383.8	13.6	13.5	-142.74	-3.2	144.0	147.1	120.1	27.02	5.443	
5,500.0	5,499.9	5,481.1	5,480.5	13.7	13.6	-142.64	-5.9	150.8	157.6	130.3	27.25	5.783	
5,600.0	5,599.7	5,577.6	5,576.7	13.8	13.8	-142.67	-9.2	159.1	171.0	143.5	27.50	6.218	
5,649.9	5,649.4	5,625.6	5,624.3	13.8	13.9	-142.73	-11.1	163.7	178.8	151.2	27.61	6.476	
5,700.0	5,699.4	5,673.5	5,672.0	13.9	14.0	-142.82	-13.1	168.8	187.2	159.5	27.73	6.751	
5,800.0	5,799.1	5,769.2	5,766.9	14.0	14.2	-142.85	-17.6	179.9	205.1	177.1	28.00	7.323	
5,900.0	5,898.8	5,867.5	5,864.3	14.2	14.4	-142.82	-22.4	192.0	223.5	195.2	28.34	7.887	
6,000.0	5,998.5	5,965.8	5,961.7	14.4	14.7	-142.79	-27.2	204.0	242.0	213.3	28.74	8.421	
6,100.0	6,098.2	6,064.0	6,059.2	14.6	14.9	-142.77	-32.0	216.1	260.5	231.3	29.17	8.931	
6,200.0	6,197.8	6,162.3	6,156.6	14.8	15.2	-142.74	-36.9	228.1	279.0	249.3	29.62	9.417	
6,300.0	6,297.5	6,260.6	6,254.0	15.1	15.5	-142.73	-41.7	240.2	297.4	267.3	30.11	9.880	
6,400.0	6,397.2	6,358.9	6,351.4	15.3	15.9	-142.71	-46.5	252.2	315.9	285.3	30.61	10.320	
6,500.0	6,496.9	6,457.2	6,448.8	15.6	16.2	-142.69	-51.3	264.3	334.4	303.3	31.14	10.737	
6,600.0	6,596.6	6,555.4	6,546.2	15.9	16.6	-142.68	-56.1	276.3	352.9	321.2	31.70	11.132	
6,700.0	6,696.3	6,653.7	6,643.7	16.2	16.9	-142.67	-61.0	288.4	371.4	339.1	32.27	11.506	
6,800.0	6,796.0	6,752.0	6,741.1	16.5	17.3	-142.66	-65.8	300.4	389.8	357.0	32.87	11.860	
6,900.0	6,895.7	6,850.3	6,838.5	16.8	17.7	-142.65	-70.6	312.5	408.3	374.8	33.48	12.194	
7,000.0	6,995.4	6,948.5	6,935.9	17.1	18.1	-142.64	-75.4	324.5	426.8	392.7	34.12	12.509	
7,100.0	7,095.1	7,046.8	7,033.3	17.5	18.5	-142.63	-80.2	336.6	445.3	410.5	34.77	12.807	
7,200.0	7,194.8	7,145.1	7,130.7	17.8	18.9	-142.62	-85.1	348.6	463.7	428.3	35.43	13.088	
7,300.0	7,294.5	7,243.4	7,228.2	18.2	19.4	-142.62	-89.9	360.7	482.2	446.1	36.11	13.352	
7,400.0	7,394.1	7,341.7	7,325.6	18.5	19.8	-142.61	-94.7	372.7	500.7	463.9	36.81	13.602	
7,500.0	7,493.8	7,439.9	7,423.0	18.9	20.3	-142.60	-99.5	384.8	519.2	481.7	37.52	13.837	
7,600.0	7,593.5	7,538.2	7,520.4	19.3	20.7	-142.60	-104.3	396.8	537.6	499.4	38.24	14.059	
7,700.0	7,693.2	7,636.5	7,617.8	19.7	21.2	-142.59	-109.2	408.9	556.1	517.2	38.98	14.268	
7,800.0	7,792.9	7,734.8	7,715.2	20.1	21.6	-142.59	-114.0	420.9	574.6	534.9	39.72	14.465	
7,900.0	7,892.6	7,833.0	7,812.7	20.5	22.1	-142.58	-118.8	433.0	593.1	552.6	40.48	14.651	
8,000.0	7,992.3	7,931.3	7,910.1	20.9	22.6	-142.58	-123.6	445.0	611.6	570.3	41.25	14.827	
8,100.0	8,092.0	8,029.6	8,007.5	21.3	23.1	-142.57	-128.4	457.1	630.0	588.0	42.02	14.992	
8,200.0	8,191.7	8,127.9	8,104.9	21.7	23.6	-142.57	-133.3	469.1	648.5	605.7	42.81	15.149	
8,300.0	8,291.4	8,226.2	8,202.3	22.1	24.0	-142.57	-138.1	481.2	667.0	623.4	43.61	15.296	
8,400.0	8,391.1	8,324.4	8,299.8	22.6	24.5	-142.56	-142.9	493.2	685.5	641.1	44.41	15.436	
8,500.0	8,490.8	8,422.7	8,397.2	23.0	25.0	-142.56	-147.7	505.3	704.0	658.7	45.22	15.567	
8,600.0	8,590.4	8,521.0	8,494.6	23.4	25.5	-142.56	-152.5	517.3	722.4	676.4	46.04	15.692	
8,700.0	8,690.1	8,619.3	8,592.0	23.9	26.1	-142.55	-157.4	529.4	740.9	694.0	46.86	15.810	
8,800.0	8,789.8	8,717.6	8,689.4	24.3	26.6	-142.55	-162.2	541.4	759.4	711.7	47.70	15.921	
8,900.0	8,889.5	8,815.8	8,786.8	24.7	27.1	-142.55	-167.0	553.5	777.9	729.3	48.53	16.028	
9,000.0	8,989.2	8,920.2	8,890.4	25.2	27.6	-142.55	-172.0	566.1	796.2	746.8	49.38	16.123	
9,100.0	9,088.9	9,033.7	9,003.0	25.6	28.2	-142.60	-176.8	578.1	813.0	762.7	50.28	16.168	
9,200.0	9,188.6	9,147.7	9,116.6	26.1	28.7	-142.71	-180.8	588.1	828.0	776.8	51.17	16.180	
9,300.0	9,288.3	9,262.4	9,230.9	26.5	29.3	-142.87	-184.0	596.0	841.1	789.1	52.04	16.163	
9,400.0	9,388.0	9,377.5	9,345.9	27.0	29.8	-143.08	-186.3	601.8	852.4	799.6	52.88	16.121	
9,462.8	9,450.6	9,450.0	9,418.3	27.3	30.1	-143.24	-187.4	604.4	858.6	805.2	53.37	16.089	
9,500.0	9,487.7	9,493.0	9,461.3	27.4	30.3	-143.36	-187.8	605.5	861.8	808.2	53.64	16.065	
9,600.0	9,587.5	9,609.0	9,577.3	27.9	30.6	-143.65	-188.4	607.0	868.2	813.9	54.32	15.983	
9,700.0	9,687.4	9,712.1	9,680.4	28.3	30.7	-143.85	-188.4	607.1	871.9	817.2	54.72	15.935	
9,800.0	9,787.3	9,811.0	9,779.2	28.7	30.6	-144.20	-185.1	607.0	874.3	819.2	55.06	15.879	
9,900.0	9,887.3	9,904.6	9,870.4	28.9	30.5	-145.56	-165.0	606.9	875.7	820.3	55.36	15.817	
9,912.7	9,900.0	9,915.8	9,881.0	29.0	30.5	87.47	-161.4	606.9	875.8	820.5	55.39	15.814	
10,000.0	9,987.3	9,987.7	9,946.8	29.0	30.3	85.59	-132.5	606.8	878.0	822.5	55.53	15.812	

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 501H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 501H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 501H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 501H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 505H - Anderson Fed Com 505H - Anderson Fed Com 505H - Prelim 1													Offset Site Error: 0.0 usft		
Survey Program: 0-MWD+HRGM				Rule Assigned:										Offset Well Error: 0.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance				Warning		
Measured Depth (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			
10,010.2	9,997.5	9,995.5	9,953.7	29.0	30.3	85.34	-128.8	606.7	878.4	822.9	55.54	15.816			
10,025.0	10,012.3	10,006.6	9,963.3	29.0	30.3	89.48	-123.3	606.7	879.1	823.5	55.56	15.822			
10,050.0	10,037.3	10,025.0	9,979.0	29.0	30.3	88.76	-113.7	606.7	880.4	824.8	55.59	15.836			
10,075.0	10,062.1	10,043.5	9,994.4	28.9	30.3	88.03	-103.4	606.6	881.9	826.3	55.62	15.856			
10,100.0	10,086.8	10,061.6	10,009.1	28.9	30.2	87.30	-92.9	606.6	883.6	828.0	55.64	15.880			
10,125.0	10,111.2	10,079.5	10,023.2	28.8	30.2	86.57	-81.8	606.5	885.5	829.8	55.66	15.909			
10,150.0	10,135.3	10,100.0	10,038.9	28.7	30.2	85.77	-68.6	606.4	887.6	831.9	55.68	15.942			
10,175.0	10,159.1	10,114.8	10,049.8	28.7	30.2	85.13	-58.6	606.4	889.8	834.1	55.69	15.978			
10,200.0	10,182.4	10,132.2	10,062.2	28.6	30.2	84.41	-46.5	606.3	892.2	836.5	55.70	16.017			
10,225.0	10,205.2	10,150.0	10,074.5	28.6	30.2	83.69	-33.6	606.2	894.6	838.9	55.71	16.058			
10,250.0	10,227.4	10,166.5	10,085.4	28.5	30.1	83.01	-21.2	606.2	897.2	841.5	55.73	16.101			
10,275.0	10,249.0	10,183.5	10,096.2	28.4	30.1	82.33	-8.2	606.1	899.9	844.2	55.74	16.145			
10,300.0	10,269.9	10,200.0	10,106.3	28.4	30.1	81.67	5.0	606.0	902.6	846.9	55.76	16.189			
10,325.0	10,290.0	10,217.1	10,116.2	28.3	30.1	81.01	18.9	606.0	905.4	849.7	55.78	16.233			
10,350.0	10,309.4	10,233.7	10,125.4	28.3	30.2	80.37	32.7	605.9	908.3	852.5	55.80	16.277			
10,375.0	10,327.9	10,250.0	10,133.9	28.2	30.2	79.76	46.6	605.8	911.1	855.3	55.83	16.320			
10,400.0	10,345.4	10,266.8	10,142.1	28.2	30.2	79.16	61.2	605.7	914.0	858.1	55.87	16.361			
10,425.0	10,362.1	10,283.2	10,149.7	28.2	30.2	78.59	75.8	605.7	916.9	861.0	55.91	16.400			
10,450.0	10,377.7	10,300.0	10,157.0	28.2	30.2	78.03	91.0	605.6	919.7	863.8	55.96	16.437			
10,475.0	10,392.3	10,315.8	10,163.3	28.2	30.2	77.51	105.4	605.5	922.5	866.5	56.01	16.471			
10,500.0	10,405.8	10,332.0	10,169.3	28.2	30.3	77.01	120.5	605.4	925.3	869.2	56.07	16.502			
10,525.0	10,418.2	10,350.0	10,175.3	28.2	30.3	76.52	137.5	605.3	928.0	871.9	56.15	16.528			
10,550.0	10,429.5	10,364.3	10,179.6	28.2	30.3	76.09	151.1	605.3	930.7	874.5	56.22	16.554			
10,575.0	10,439.5	10,380.4	10,184.0	28.2	30.4	75.68	166.6	605.2	933.3	877.0	56.31	16.574			
10,600.0	10,448.4	10,400.0	10,188.7	28.3	30.4	75.27	185.6	605.1	935.8	879.4	56.42	16.585			
10,625.0	10,456.0	10,412.5	10,191.2	28.3	30.5	74.93	197.8	605.0	938.2	881.7	56.51	16.601			
10,650.0	10,462.3	10,425.0	10,193.4	28.4	30.5	74.62	210.2	605.0	940.5	883.9	56.61	16.613			
10,675.0	10,467.4	10,444.5	10,196.3	28.4	30.6	74.32	229.4	604.9	942.7	885.9	56.75	16.610			
10,700.0	10,471.2	10,460.5	10,198.0	28.5	30.7	74.05	245.3	604.8	944.7	887.8	56.89	16.607			
10,725.0	10,473.7	10,475.0	10,199.1	28.6	30.7	73.82	259.8	604.7	946.7	889.7	57.02	16.603			
10,750.0	10,474.9	10,492.4	10,199.9	28.7	30.8	73.63	277.2	604.6	948.5	891.3	57.18	16.587			
10,760.2	10,475.0	10,500.0	10,200.0	28.8	30.8	73.56	284.8	604.6	949.2	892.0	57.25	16.579			
10,760.6	10,475.0	10,500.0	10,200.0	28.8	30.8	73.56	284.8	604.6	949.2	892.0	57.25	16.579			
10,800.0	10,475.0	10,535.6	10,200.0	29.0	31.0	73.62	320.4	604.4	951.8	894.2	57.61	16.520			
10,900.0	10,475.0	10,635.5	10,200.0	29.7	31.6	73.71	420.3	603.9	955.9	897.1	58.84	16.247			
10,971.4	10,475.0	10,707.0	10,200.0	30.2	32.1	73.73	491.8	603.5	956.8	897.0	59.85	15.987			
11,000.0	10,475.0	10,735.5	10,200.0	30.4	32.3	73.73	520.3	603.3	956.8	896.6	60.27	15.876			
11,100.0	10,475.0	10,835.5	10,200.0	31.2	33.1	73.74	620.3	602.8	956.9	895.1	61.86	15.469			
11,200.0	10,475.0	10,935.5	10,200.0	32.0	34.0	73.74	720.3	602.3	957.0	893.3	63.66	15.032			
11,300.0	10,475.0	11,035.5	10,200.0	33.0	35.0	73.74	820.3	601.8	957.1	891.4	65.65	14.578			
11,400.0	10,475.0	11,135.5	10,200.0	34.1	36.0	73.74	920.3	601.2	957.1	889.3	67.81	14.115			
11,500.0	10,475.0	11,235.5	10,200.0	35.2	37.1	73.74	1,020.3	600.7	957.2	887.1	70.12	13.650			
11,600.0	10,475.0	11,335.5	10,200.0	36.4	38.3	73.74	1,120.3	600.2	957.3	884.7	72.58	13.190			
11,700.0	10,475.0	11,435.5	10,200.0	37.7	39.6	73.74	1,220.3	599.7	957.3	882.2	75.15	12.738			
11,800.0	10,475.0	11,535.5	10,200.0	39.1	40.9	73.74	1,320.3	599.1	957.4	879.6	77.85	12.299			
11,900.0	10,475.0	11,635.5	10,200.0	40.5	42.3	73.75	1,420.3	598.6	957.5	876.9	80.64	11.874			
12,000.0	10,475.0	11,735.5	10,200.0	42.0	43.7	73.75	1,520.3	598.1	957.6	874.0	83.52	11.465			
12,100.0	10,475.0	11,835.5	10,200.0	43.5	45.2	73.75	1,620.3	597.6	957.6	871.1	86.49	11.072			
12,200.0	10,475.0	11,935.5	10,200.0	45.0	46.7	73.75	1,720.3	597.0	957.7	868.2	89.53	10.697			
12,300.0	10,475.0	12,035.5	10,200.0	46.6	48.2	73.75	1,820.3	596.5	957.8	865.1	92.64	10.339			
12,400.0	10,475.0	12,135.5	10,200.0	48.3	49.8	73.75	1,920.3	596.0	957.9	862.1	95.81	9.998			
12,500.0	10,475.0	12,235.5	10,200.0	49.9	51.4	73.75	2,020.3	595.5	957.9	858.9	99.03	9.673			

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 501H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 501H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 501H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 501H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 505H - Anderson Fed Com 505H - Anderson Fed Com 505H - Prelim 1													Offset Site Error:	0.0 usft	
Survey Program: 0-MWD+HRGM				Rule Assigned:										Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
12,600.0	10,475.0	12,335.5	10,200.0	51.6	53.0	73.75	2,120.3	594.9	958.0	855.7	102.30	9.365			
12,700.0	10,475.0	12,435.5	10,200.0	53.3	54.7	73.76	2,220.3	594.4	958.1	852.5	105.61	9.072			
12,800.0	10,475.0	12,535.5	10,200.0	55.1	56.4	73.76	2,320.3	593.9	958.1	849.2	108.97	8.793			
12,900.0	10,475.0	12,635.5	10,200.0	56.8	58.1	73.76	2,420.3	593.4	958.2	845.9	112.36	8.528			
13,000.0	10,475.0	12,735.5	10,200.0	58.6	59.8	73.76	2,520.3	592.8	958.3	842.5	115.78	8.277			
13,100.0	10,475.0	12,835.5	10,200.0	60.4	61.5	73.76	2,620.3	592.3	958.4	839.1	119.24	8.037			
13,200.0	10,475.0	12,935.5	10,200.0	62.2	63.3	73.76	2,720.3	591.8	958.4	835.7	122.72	7.810			
13,300.0	10,475.0	13,035.5	10,200.0	64.0	65.1	73.76	2,820.3	591.3	958.5	832.3	126.23	7.593			
13,400.0	10,475.0	13,135.5	10,200.0	65.8	66.9	73.76	2,920.3	590.7	958.6	828.8	129.76	7.387			
13,500.0	10,475.0	13,235.5	10,200.0	67.6	68.7	73.77	3,020.3	590.2	958.7	825.3	133.32	7.191			
13,600.0	10,475.0	13,335.5	10,200.0	69.5	70.5	73.77	3,120.3	589.7	958.7	821.8	136.89	7.004			
13,700.0	10,475.0	13,435.5	10,200.0	71.3	72.3	73.77	3,220.3	589.2	958.8	818.3	140.48	6.825			
13,800.0	10,475.0	13,535.5	10,200.0	73.2	74.1	73.77	3,320.3	588.6	958.9	814.8	144.09	6.655			
13,900.0	10,475.0	13,635.5	10,200.0	75.1	76.0	73.77	3,420.3	588.1	958.9	811.2	147.72	6.492			
14,000.0	10,475.0	13,735.5	10,200.0	77.0	77.8	73.77	3,520.3	587.6	959.0	807.7	151.36	6.336			
14,100.0	10,475.0	13,835.5	10,200.0	78.9	79.7	73.77	3,620.3	587.1	959.1	804.1	155.01	6.187			
14,200.0	10,475.0	13,935.5	10,200.0	80.7	81.5	73.78	3,720.3	586.5	959.2	800.5	158.68	6.045			
14,300.0	10,475.0	14,035.5	10,200.0	82.6	83.4	73.78	3,820.3	586.0	959.2	796.9	162.36	5.908			
14,400.0	10,475.0	14,135.5	10,200.0	84.6	85.3	73.78	3,920.3	585.5	959.3	793.3	166.05	5.777			
14,500.0	10,475.0	14,235.5	10,200.0	86.5	87.2	73.78	4,020.3	585.0	959.4	789.6	169.74	5.652			
14,600.0	10,475.0	14,335.5	10,200.0	88.4	89.1	73.78	4,120.3	584.4	959.5	786.0	173.45	5.531			
14,700.0	10,475.0	14,435.5	10,200.0	90.3	91.0	73.78	4,220.3	583.9	959.5	782.4	177.17	5.416			
14,800.0	10,475.0	14,535.5	10,200.0	92.2	92.9	73.78	4,320.3	583.4	959.6	778.7	180.90	5.305			
14,900.0	10,475.0	14,635.5	10,200.0	94.2	94.8	73.78	4,420.3	582.9	959.7	775.0	184.63	5.198			
15,000.0	10,475.0	14,735.5	10,200.0	96.1	96.7	73.79	4,520.3	582.3	959.7	771.4	188.38	5.095			
15,100.0	10,475.0	14,835.5	10,200.0	98.0	98.6	73.79	4,620.3	581.8	959.8	767.7	192.13	4.996			
15,200.0	10,475.0	14,935.5	10,200.0	100.0	100.5	73.79	4,720.3	581.3	959.9	764.0	195.88	4.900			
15,300.0	10,475.0	15,035.5	10,200.0	101.9	102.4	73.79	4,820.3	580.8	960.0	760.3	199.65	4.808			
15,400.0	10,475.0	15,135.5	10,200.0	103.9	104.4	73.79	4,920.3	580.2	960.0	756.6	203.41	4.720			
15,500.0	10,475.0	15,235.5	10,200.0	105.8	106.3	73.79	5,020.3	579.7	960.1	752.9	207.19	4.634			
15,600.0	10,475.0	15,335.5	10,200.0	107.8	108.2	73.79	5,120.3	579.2	960.2	749.2	210.97	4.551			
15,700.0	10,475.0	15,435.5	10,200.0	109.7	110.2	73.79	5,220.3	578.7	960.3	745.5	214.75	4.471			
15,800.0	10,475.0	15,535.5	10,200.0	111.7	112.1	73.80	5,320.3	578.1	960.3	741.8	218.54	4.394			
15,900.0	10,475.0	15,635.5	10,200.0	113.6	114.0	73.80	5,420.3	577.6	960.4	738.1	222.34	4.320			
16,000.0	10,475.0	15,735.5	10,200.0	115.6	116.0	73.80	5,520.3	577.1	960.5	734.3	226.13	4.247			
16,100.0	10,475.0	15,835.5	10,200.0	117.5	117.9	73.80	5,620.3	576.6	960.5	730.6	229.94	4.177			
16,200.0	10,475.0	15,935.5	10,200.0	119.5	119.9	73.80	5,720.3	576.0	960.6	726.9	233.74	4.110			
16,300.0	10,475.0	16,035.5	10,200.0	121.5	121.8	73.80	5,820.2	575.5	960.7	723.1	237.55	4.044			
16,400.0	10,475.0	16,135.5	10,200.0	123.4	123.8	73.80	5,920.2	575.0	960.8	719.4	241.37	3.981			
16,500.0	10,475.0	16,235.5	10,200.0	125.4	125.7	73.80	6,020.2	574.5	960.8	715.7	245.18	3.919			
16,600.0	10,475.0	16,335.5	10,200.0	127.4	127.7	73.81	6,120.2	573.9	960.9	711.9	249.00	3.859			
16,700.0	10,475.0	16,435.5	10,200.0	129.3	129.7	73.81	6,220.2	573.4	961.0	708.2	252.83	3.801			
16,800.0	10,475.0	16,535.5	10,200.0	131.3	131.6	73.81	6,320.2	572.9	961.1	704.4	256.65	3.745			
16,900.0	10,475.0	16,635.5	10,200.0	133.3	133.6	73.81	6,420.2	572.4	961.1	700.6	260.48	3.690			
17,000.0	10,475.0	16,735.5	10,200.0	135.3	135.5	73.81	6,520.2	571.8	961.2	696.9	264.31	3.637			
17,100.0	10,475.0	16,835.5	10,200.0	137.2	137.5	73.81	6,620.2	571.3	961.3	693.1	268.15	3.585			
17,200.0	10,475.0	16,935.5	10,200.0	139.2	139.5	73.81	6,720.2	570.8	961.3	689.4	271.99	3.535			
17,300.0	10,475.0	17,035.5	10,200.0	141.2	141.4	73.81	6,820.2	570.3	961.4	685.6	275.83	3.486			
17,400.0	10,475.0	17,135.5	10,200.0	143.2	143.4	73.82	6,920.2	569.7	961.5	681.8	279.67	3.438			
17,500.0	10,475.0	17,235.5	10,200.0	145.2	145.4	73.82	7,020.2	569.2	961.6	678.1	283.51	3.392			
17,600.0	10,475.0	17,335.5	10,200.0	147.1	147.3	73.82	7,120.2	568.7	961.6	674.3	287.36	3.346			
17,700.0	10,475.0	17,435.5	10,200.0	149.1	149.3	73.82	7,220.2	568.2	961.7	670.5	291.20	3.303			

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 501H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 501H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 501H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 501H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 505H - Anderson Fed Com 505H - Anderson Fed Com 505H - Prelim 1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
17,800.0	10,475.0	17,535.5	10,200.0	151.1	151.3	73.82	7,320.2	567.6	961.8	666.7	295.05	3.260		
17,900.0	10,475.0	17,635.5	10,200.0	153.1	153.3	73.82	7,420.2	567.1	961.9	662.9	298.91	3.218		
18,000.0	10,475.0	17,735.5	10,200.0	155.1	155.2	73.82	7,520.2	566.6	961.9	659.2	302.76	3.177		
18,100.0	10,475.0	17,835.5	10,200.0	157.1	157.2	73.82	7,620.2	566.1	962.0	655.4	306.62	3.137		
18,200.0	10,475.0	17,935.5	10,200.0	159.0	159.2	73.83	7,720.2	565.5	962.1	651.6	310.47	3.099		
18,300.0	10,475.0	18,035.5	10,200.0	161.0	161.2	73.83	7,820.2	565.0	962.1	647.8	314.33	3.061		
18,400.0	10,475.0	18,135.5	10,200.0	163.0	163.2	73.83	7,920.2	564.5	962.2	644.0	318.19	3.024		
18,484.9	10,475.0	18,220.4	10,200.0	164.7	164.8	73.83	8,005.1	564.0	962.3	640.8	321.47	2.993 SF		



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 501H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 501H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 501H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 501H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 551H - Anderson Fed Com 551H - Anderson Fed Com 551H - Prelim 1													Offset Site Error: 0.0 usft		
Survey Program: 0-MWD+HRGM				Rule Assigned:										Offset Well Error: 0.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	89.63	0.2	33.0	33.0						
100.0	100.0	100.0	100.0	0.5	0.5	89.63	0.2	33.0	33.0	32.0	1.06	31.138			
200.0	200.0	200.0	200.0	1.7	1.7	89.63	0.2	33.0	33.0	29.6	3.42	9.644			
300.0	300.0	300.0	300.0	2.4	2.4	89.63	0.2	33.0	33.0	28.2	4.82	6.846			
400.0	400.0	400.0	400.0	3.0	3.0	89.63	0.2	33.0	33.0	27.1	5.91	5.588			
500.0	500.0	500.0	500.0	3.4	3.4	89.63	0.2	33.0	33.0	26.2	6.83	4.834			
600.0	600.0	600.0	600.0	3.8	3.8	89.63	0.2	33.0	33.0	25.4	7.65	4.316			
700.0	700.0	700.0	700.0	4.2	4.2	89.63	0.2	33.0	33.0	24.6	8.39	3.933			
800.0	800.0	800.0	800.0	4.5	4.5	89.63	0.2	33.0	33.0	23.9	9.08	3.635			
900.0	900.0	900.0	900.0	4.9	4.9	89.63	0.2	33.0	33.0	23.3	9.73	3.393			
1,000.0	1,000.0	1,000.0	1,000.0	5.2	5.2	89.63	0.2	33.0	33.0	22.7	10.34	3.193			
1,100.0	1,100.0	1,100.0	1,100.0	5.5	5.5	89.63	0.2	33.0	33.0	22.1	10.92	3.023			
1,200.0	1,200.0	1,200.0	1,200.0	5.7	5.7	89.63	0.2	33.0	33.0	21.5	11.48	2.876			
1,300.0	1,300.0	1,300.0	1,300.0	6.0	6.0	89.63	0.2	33.0	33.0	21.0	12.01	2.748			
1,400.0	1,400.0	1,400.0	1,400.0	6.3	6.3	89.63	0.2	33.0	33.0	20.5	12.53	2.635			
1,500.0	1,500.0	1,500.0	1,500.0	6.5	6.5	89.63	0.2	33.0	33.0	20.0	13.03	2.533			
1,600.0	1,600.0	1,600.0	1,600.0	6.8	6.8	89.63	0.2	33.0	33.0	19.5	13.52	2.443			
1,700.0	1,700.0	1,700.0	1,700.0	7.0	7.0	89.63	0.2	33.0	33.0	19.0	13.99	2.360			
1,800.0	1,800.0	1,800.0	1,800.0	7.2	7.2	89.63	0.2	33.0	33.0	18.6	14.45	2.285			
1,900.0	1,900.0	1,900.0	1,900.0	7.4	7.4	89.63	0.2	33.0	33.0	18.1	14.90	2.216			
2,000.0	2,000.0	2,000.0	2,000.0	7.7	7.7	89.63	0.2	33.0	33.0	17.7	15.34	2.152			
2,100.0	2,100.0	2,100.0	2,100.0	7.9	7.9	89.63	0.2	33.0	33.0	17.2	15.77	2.094			
2,200.0	2,200.0	2,200.0	2,200.0	8.1	8.1	89.63	0.2	33.0	33.0	16.8	16.19	2.039			
2,300.0	2,300.0	2,300.0	2,300.0	8.3	8.3	89.63	0.2	33.0	33.0	16.4	16.61	1.988			
2,400.0	2,400.0	2,400.0	2,400.0	8.5	8.5	89.63	0.2	33.0	33.0	16.0	17.02	1.940			
2,500.0	2,500.0	2,500.0	2,500.0	8.7	8.7	89.63	0.2	33.0	33.0	15.6	17.42	1.896			
2,600.0	2,600.0	2,600.0	2,600.0	8.9	8.9	89.63	0.2	33.0	33.0	15.2	17.81	1.854			
2,700.0	2,700.0	2,700.0	2,700.0	9.1	9.1	89.63	0.2	33.0	33.0	14.8	18.20	1.814			
2,800.0	2,800.0	2,800.0	2,800.0	9.3	9.3	89.63	0.2	33.0	33.0	14.4	18.59	1.776			
2,900.0	2,900.0	2,900.0	2,900.0	9.5	9.5	89.63	0.2	33.0	33.0	14.1	18.96	1.741			
3,000.0	3,000.0	3,000.0	3,000.0	9.7	9.7	89.63	0.2	33.0	33.0	13.7	19.34	1.707			
3,100.0	3,100.0	3,100.0	3,100.0	9.9	9.9	89.63	0.2	33.0	33.0	13.3	19.71	1.675			
3,200.0	3,200.0	3,200.0	3,200.0	10.0	10.0	89.63	0.2	33.0	33.0	12.9	20.07	1.645			
3,300.0	3,300.0	3,300.0	3,300.0	10.2	10.2	89.63	0.2	33.0	33.0	12.6	20.44	1.616			
3,400.0	3,400.0	3,400.0	3,400.0	10.4	10.4	89.63	0.2	33.0	33.0	12.2	20.79	1.588			
3,500.0	3,500.0	3,500.0	3,500.0	10.6	10.6	89.63	0.2	33.0	33.0	11.9	21.15	1.561			
3,600.0	3,600.0	3,600.0	3,600.0	10.7	10.7	89.63	0.2	33.0	33.0	11.5	21.50	1.536			
3,700.0	3,700.0	3,700.0	3,700.0	10.9	10.9	89.63	0.2	33.0	33.0	11.2	21.85	1.511			
3,800.0	3,800.0	3,800.0	3,800.0	11.1	11.1	89.63	0.2	33.0	33.0	10.8	22.19	1.488	Level 3		
3,900.0	3,900.0	3,900.0	3,900.0	11.3	11.3	89.63	0.2	33.0	33.0	10.5	22.53	1.465	Level 3		
4,000.0	4,000.0	4,000.0	4,000.0	11.4	11.4	89.63	0.2	33.0	33.0	10.1	22.87	1.444	Level 3		
4,100.0	4,100.0	4,100.0	4,100.0	11.6	11.6	89.63	0.2	33.0	33.0	9.8	23.21	1.423	Level 3		
4,200.0	4,200.0	4,200.0	4,200.0	11.8	11.8	89.63	0.2	33.0	33.0	9.5	23.54	1.403	Level 3		
4,300.0	4,300.0	4,300.0	4,300.0	11.9	11.9	89.63	0.2	33.0	33.0	9.1	23.87	1.383	Level 3		
4,400.0	4,400.0	4,400.0	4,400.0	12.1	12.1	89.63	0.2	33.0	33.0	8.8	24.20	1.364	Level 3		
4,500.0	4,500.0	4,500.0	4,500.0	12.3	12.3	89.63	0.2	33.0	33.0	8.5	24.53	1.346	Level 3		
4,600.0	4,600.0	4,600.0	4,600.0	12.4	12.4	89.63	0.2	33.0	33.0	8.2	24.85	1.329	Level 3		
4,700.0	4,700.0	4,700.0	4,700.0	12.6	12.6	89.63	0.2	33.0	33.0	7.8	25.17	1.312	Level 3		
4,800.0	4,800.0	4,800.0	4,800.0	12.7	12.7	89.63	0.2	33.0	33.0	7.5	25.49	1.295	Level 3		
4,900.0	4,900.0	4,900.0	4,900.0	12.9	12.9	89.63	0.2	33.0	33.0	7.2	25.81	1.279	Level 3		
5,000.0	5,000.0	5,000.0	5,000.0	13.1	13.1	89.63	0.2	33.0	33.0	6.9	26.12	1.264	Level 3		
5,100.0	5,100.0	5,100.0	5,100.0	13.2	13.2	89.63	0.2	33.0	33.0	6.6	26.44	1.249	Level 3		

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



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 501H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 501H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 501H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 501H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 551H - Anderson Fed Com 551H - Anderson Fed Com 551H - Prelim 1													Offset Site Error: 0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.0 usft
Reference	Offset	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)			
5,200.0	5,200.0	5,200.0	5,200.0	13.4	13.4	89.63	0.2	33.0	33.0	6.3	26.75	1.234 Level 3, CC	
5,300.0	5,300.0	5,300.0	5,300.0	13.5	13.5	-144.51	0.2	33.0	33.7	6.7	27.00	1.249 Level 3	
5,400.0	5,400.0	5,400.0	5,400.0	13.6	13.7	-146.92	0.2	33.0	35.9	8.6	27.24	1.317 Level 3	
5,500.0	5,499.9	5,500.4	5,500.4	13.7	13.8	-149.70	-0.3	32.3	38.9	11.4	27.43	1.417 Level 3	
5,600.0	5,599.7	5,601.0	5,601.0	13.8	13.9	-152.03	-2.0	30.2	41.9	14.3	27.61	1.519	
5,649.9	5,649.4	5,651.2	5,651.1	13.8	13.9	-153.04	-3.2	28.7	43.5	15.8	27.69	1.571	
5,700.0	5,699.4	5,701.6	5,701.5	13.9	14.0	-153.86	-4.7	26.8	44.9	17.1	27.77	1.616	
5,800.0	5,799.1	5,802.3	5,802.0	14.0	14.1	-154.63	-8.5	21.9	46.5	18.5	28.01	1.659	
5,900.0	5,898.8	5,902.3	5,901.7	14.2	14.2	-154.87	-12.8	16.4	47.3	19.0	28.29	1.671	
6,000.0	5,998.5	6,002.3	6,001.5	14.4	14.4	-155.10	-17.2	10.8	48.1	19.5	28.61	1.681	
6,100.0	6,098.2	6,102.3	6,101.2	14.6	14.5	-155.32	-21.5	5.3	48.9	20.0	28.95	1.690	
6,200.0	6,197.8	6,202.3	6,201.0	14.8	14.7	-155.54	-25.9	-0.2	49.7	20.4	29.32	1.696	
6,300.0	6,297.5	6,302.3	6,300.7	15.1	14.9	-155.75	-30.2	-5.8	50.5	20.8	29.72	1.700	
6,400.0	6,397.2	6,402.3	6,400.5	15.3	15.1	-155.95	-34.5	-11.3	51.4	21.2	30.15	1.703	
6,500.0	6,496.9	6,502.3	6,500.2	15.6	15.4	-156.14	-38.9	-16.8	52.2	21.6	30.61	1.704	
6,600.0	6,596.6	6,602.3	6,600.0	15.9	15.6	-156.33	-43.2	-22.4	53.0	21.9	31.08	1.704	
6,700.0	6,696.3	6,702.3	6,699.7	16.2	15.9	-156.52	-47.6	-27.9	53.8	22.2	31.59	1.703	
6,800.0	6,796.0	6,802.3	6,799.5	16.5	16.1	-156.70	-51.9	-33.4	54.6	22.5	32.11	1.701	
6,900.0	6,895.7	6,902.3	6,899.2	16.8	16.4	-156.87	-56.2	-39.0	55.4	22.8	32.66	1.697	
7,000.0	6,995.4	7,002.3	6,999.0	17.1	16.7	-157.04	-60.6	-44.5	56.2	23.0	33.23	1.693	
7,100.0	7,095.1	7,102.3	7,098.7	17.5	17.0	-157.20	-64.9	-50.0	57.1	23.2	33.81	1.687	
7,200.0	7,194.8	7,202.3	7,198.5	17.8	17.3	-157.36	-69.3	-55.6	57.9	23.5	34.42	1.681	
7,300.0	7,294.5	7,302.3	7,298.2	18.2	17.6	-157.52	-73.6	-61.1	58.7	23.6	35.05	1.675	
7,400.0	7,394.1	7,402.3	7,398.0	18.5	18.0	-157.67	-77.9	-66.6	59.5	23.8	35.69	1.668	
7,500.0	7,493.8	7,502.3	7,497.7	18.9	18.3	-157.81	-82.3	-72.2	60.3	24.0	36.35	1.660	
7,600.0	7,593.5	7,602.3	7,597.5	19.3	18.7	-157.95	-86.6	-77.7	61.2	24.1	37.02	1.652	
7,700.0	7,693.2	7,702.3	7,697.2	19.7	19.0	-158.09	-91.0	-83.2	62.0	24.3	37.71	1.643	
7,800.0	7,792.9	7,802.3	7,797.0	20.1	19.4	-158.23	-95.3	-88.8	62.8	24.4	38.41	1.635	
7,900.0	7,892.6	7,902.3	7,896.7	20.5	19.7	-158.36	-99.6	-94.3	63.6	24.5	39.13	1.626	
8,000.0	7,992.3	8,002.2	7,996.5	20.9	20.1	-158.49	-104.0	-99.8	64.4	24.6	39.86	1.616	
8,100.0	8,092.0	8,102.2	8,096.2	21.3	20.5	-158.61	-108.3	-105.4	65.3	24.7	40.60	1.607	
8,200.0	8,191.7	8,202.2	8,196.0	21.7	20.9	-158.73	-112.7	-110.9	66.1	24.7	41.35	1.598	
8,300.0	8,291.4	8,302.2	8,295.7	22.1	21.3	-158.85	-117.0	-116.4	66.9	24.8	42.12	1.588	
8,400.0	8,391.1	8,402.2	8,395.5	22.6	21.7	-158.97	-121.3	-122.0	67.7	24.8	42.89	1.579	
8,500.0	8,490.8	8,502.2	8,495.2	23.0	22.1	-159.08	-125.7	-127.5	68.5	24.9	43.68	1.569	
8,600.0	8,590.4	8,602.2	8,595.0	23.4	22.5	-159.19	-130.0	-133.0	69.4	24.9	44.47	1.560	
8,700.0	8,690.1	8,702.2	8,694.7	23.9	22.9	-159.30	-134.4	-138.6	70.2	24.9	45.27	1.550	
8,800.0	8,789.8	8,802.2	8,794.5	24.3	23.3	-159.40	-138.7	-144.1	71.0	24.9	46.08	1.541	
8,900.0	8,889.5	8,902.2	8,894.2	24.7	23.7	-159.51	-143.0	-149.6	71.8	24.9	46.90	1.532	
9,000.0	8,989.2	9,002.2	8,994.0	25.2	24.2	-159.61	-147.4	-155.2	72.7	24.9	47.73	1.522	
9,100.0	9,088.9	9,102.2	9,093.7	25.6	24.6	-159.71	-151.7	-160.7	73.5	24.9	48.56	1.513	
9,200.0	9,188.6	9,202.2	9,193.5	26.1	25.0	-159.80	-156.1	-166.2	74.3	24.9	49.40	1.504	
9,300.0	9,288.3	9,302.2	9,293.2	26.5	25.4	-159.90	-160.4	-171.8	75.1	24.9	50.25	1.495 Level 3	
9,400.0	9,388.0	9,402.2	9,393.0	27.0	25.9	-159.99	-164.7	-177.3	75.9	24.8	51.10	1.486 Level 3	
9,462.8	9,450.6	9,465.0	9,455.6	27.3	26.2	-160.04	-167.5	-180.8	76.5	24.8	51.62	1.481 Level 3	
9,500.0	9,487.7	9,502.2	9,492.7	27.4	26.3	-160.05	-169.1	-182.8	76.7	24.7	51.92	1.476 Level 3	
9,600.0	9,587.5	9,602.2	9,592.5	27.9	26.8	-159.74	-173.4	-188.4	76.1	23.4	52.69	1.443 Level 3	
9,700.0	9,687.4	9,702.2	9,692.2	28.3	27.2	-158.95	-177.8	-193.9	73.8	20.5	53.34	1.384 Level 3	
9,800.0	9,787.3	9,802.1	9,791.8	28.7	27.7	-157.58	-182.1	-199.4	70.0	16.2	53.81	1.300 Level 3	
9,900.0	9,887.3	9,901.9	9,891.4	28.9	28.1	-155.41	-186.4	-205.0	64.6	10.6	54.01	1.196 Level 3	
9,912.7	9,900.0	9,914.5	9,904.0	29.0	28.2	78.21	-187.0	-205.7	63.8	9.8	53.99	1.182 Level 3	
10,000.0	9,987.3	10,001.6	9,990.9	29.0	28.6	80.88	-190.8	-210.5	58.4	4.6	53.72	1.087 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 501H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 501H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 501H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 501H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 551H - Anderson Fed Com 551H - Anderson Fed Com 551H - Prelim 1													Offset Site Error: 0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.0 usft
Reference	Offset	Rule Assigned:											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
				(usft)	(usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,010.2	9,997.5	10,011.8	10,001.0	29.0	28.6	81.22	-191.2	-211.0	57.7	4.1	53.67	1.076	Level 3
10,025.0	10,012.3	10,026.4	10,015.6	29.0	28.7	86.62	-191.8	-211.8	56.8	3.3	53.53	1.062	Level 3
10,050.0	10,037.3	10,051.1	10,040.2	29.0	28.8	89.08	-192.8	-213.1	55.4	2.4	52.98	1.046	Level 3
10,075.0	10,062.1	10,075.6	10,064.7	28.9	28.9	92.90	-193.7	-214.3	54.2	2.2	51.96	1.043	Level 3, ES, SF
10,100.0	10,086.8	10,100.0	10,089.1	28.9	29.0	98.07	-194.6	-215.3	53.5	3.1	50.39	1.061	Level 3
10,110.3	10,096.9	10,109.8	10,098.9	28.8	29.0	100.51	-194.9	-215.8	53.4	3.8	49.57	1.077	Level 3
10,125.0	10,111.2	10,124.0	10,113.0	28.8	29.1	104.33	-195.4	-216.3	53.6	5.3	48.23	1.111	Level 3
10,150.0	10,135.3	10,147.8	10,136.8	28.7	29.2	111.41	-196.1	-217.2	54.9	9.2	45.65	1.202	Level 3
10,175.0	10,159.1	10,171.2	10,160.2	28.7	29.3	118.77	-196.7	-218.0	57.8	14.8	42.98	1.344	Level 3
10,200.0	10,182.4	10,194.1	10,183.1	28.6	29.4	125.91	-197.3	-218.8	62.5	21.8	40.69	1.536	
10,225.0	10,205.2	10,216.6	10,205.6	28.6	29.5	132.42	-197.8	-219.4	69.1	30.0	39.09	1.769	
10,250.0	10,227.4	10,238.6	10,227.6	28.5	29.5	138.09	-198.2	-219.9	77.6	39.4	38.24	2.030	
10,275.0	10,249.0	10,260.0	10,248.9	28.4	29.6	142.88	-198.6	-220.4	87.9	49.9	37.99	2.314	
10,300.0	10,269.9	10,280.7	10,269.6	28.4	29.7	146.83	-198.9	-220.8	99.7	61.6	38.12	2.616	
10,325.0	10,290.0	10,300.7	10,289.7	28.3	29.8	150.04	-199.1	-221.1	113.1	74.6	38.46	2.939	
10,350.0	10,309.4	10,320.0	10,308.9	28.3	29.8	152.63	-199.3	-221.4	127.7	88.8	38.89	3.284	
10,375.0	10,327.9	10,338.5	10,327.4	28.2	29.9	154.68	-199.5	-221.6	143.6	104.2	39.33	3.650	
10,400.0	10,345.4	10,356.1	10,345.0	28.2	29.9	156.29	-199.6	-221.8	160.5	120.8	39.75	4.039	
10,425.0	10,362.1	10,372.8	10,361.7	28.2	30.0	157.51	-199.7	-221.9	178.5	138.4	40.13	4.448	
10,450.0	10,377.7	10,388.5	10,377.5	28.2	30.0	158.40	-199.8	-222.0	197.5	157.0	40.48	4.878	
10,475.0	10,392.3	10,403.3	10,392.2	28.2	30.1	158.97	-199.8	-222.0	217.3	176.5	40.79	5.327	
10,500.0	10,405.8	10,416.9	10,405.8	28.2	30.1	159.23	-199.8	-222.0	237.9	196.8	41.05	5.795	
10,525.0	10,418.2	10,429.3	10,418.2	28.2	30.1	159.18	-199.8	-222.0	259.2	217.9	41.28	6.279	
10,550.0	10,429.5	10,440.5	10,429.5	28.2	30.1	158.79	-199.8	-222.0	281.2	239.7	41.49	6.778	
10,575.0	10,439.5	10,450.6	10,439.5	28.2	30.1	158.00	-199.8	-222.0	303.8	262.1	41.67	7.291	
10,600.0	10,448.4	10,459.4	10,448.4	28.3	30.1	156.71	-199.8	-222.0	326.9	285.1	41.83	7.815	
10,625.0	10,456.0	10,467.1	10,456.0	28.3	30.1	154.71	-199.8	-222.0	350.5	308.5	41.98	8.350	
10,650.0	10,462.3	10,473.4	10,462.3	28.4	30.1	151.65	-199.8	-222.0	374.5	332.4	42.11	8.894	
10,675.0	10,467.4	10,478.5	10,467.4	28.4	30.1	146.88	-199.8	-222.0	398.8	356.6	42.22	9.445	
10,700.0	10,471.2	10,482.3	10,471.2	28.5	30.1	139.08	-199.8	-222.0	423.4	381.0	42.33	10.001	
10,725.0	10,473.7	10,484.8	10,473.7	28.6	30.1	125.59	-199.8	-222.0	448.1	405.7	42.43	10.561	
10,750.0	10,474.9	10,486.0	10,474.9	28.7	30.1	102.37	-199.8	-222.0	472.9	430.4	42.52	11.123	
10,760.2	10,475.0	10,486.1	10,475.0	28.8	30.1	90.00	-199.8	-222.0	483.1	440.5	42.55	11.353	
10,760.6	10,475.0	10,486.1	10,475.0	28.8	30.1	90.00	-199.8	-222.0	483.5	440.9	42.55	11.361	
10,800.0	10,475.0	10,486.1	10,475.0	29.0	30.1	90.00	-199.8	-222.0	522.7	480.0	42.68	12.246	
10,900.0	10,475.0	10,486.1	10,475.0	29.7	30.1	90.00	-199.8	-222.0	622.1	579.1	43.02	14.462	
10,971.4	10,475.0	11,649.0	11,150.0	30.2	31.6	179.64	487.2	-310.7	675.0	612.0	63.05	10.707	
11,000.0	10,475.0	11,677.5	11,150.0	30.4	31.8	179.77	515.7	-312.5	675.0	611.8	63.20	10.680	
11,073.7	10,475.0	11,751.1	11,150.0	31.0	32.5	180.00	589.2	-315.6	675.0	611.3	63.65	10.604	
11,100.0	10,475.0	11,777.4	11,150.0	31.2	32.7	-179.96	615.5	-316.3	675.0	611.2	63.82	10.576	
11,200.0	10,475.0	11,877.4	11,150.0	32.0	33.6	-179.93	715.5	-317.2	675.0	610.4	64.55	10.457	
11,300.0	10,475.0	11,977.4	11,150.0	33.0	34.5	-179.93	815.5	-317.8	675.0	609.6	65.35	10.328	
11,400.0	10,475.0	12,077.4	11,150.0	34.1	35.6	-179.93	915.5	-318.4	675.0	608.8	66.22	10.193	
11,500.0	10,475.0	12,177.4	11,150.0	35.2	36.7	-179.93	1,015.5	-319.0	675.0	607.9	67.15	10.052	
11,600.0	10,475.0	12,277.4	11,150.0	36.4	37.8	-179.93	1,115.5	-319.6	675.0	606.9	68.14	9.907	
11,700.0	10,475.0	12,377.4	11,150.0	37.7	39.1	-179.93	1,215.5	-320.2	675.0	605.8	69.18	9.757	
11,800.0	10,475.0	12,477.4	11,150.0	39.1	40.4	-179.94	1,315.5	-320.8	675.0	604.7	70.27	9.606	
11,900.0	10,475.0	12,577.4	11,150.0	40.5	41.8	-179.94	1,415.5	-321.3	675.0	603.6	71.42	9.452	
12,000.0	10,475.0	12,677.4	11,150.0	42.0	43.2	-179.94	1,515.5	-321.9	675.0	602.4	72.61	9.296	
12,100.0	10,475.0	12,777.4	11,150.0	43.5	44.7	-179.94	1,615.5	-322.5	675.0	601.2	73.85	9.140	
12,200.0	10,475.0	12,877.4	11,150.0	45.0	46.2	-179.94	1,715.5	-323.1	675.0	599.9	75.13	8.984	
12,300.0	10,475.0	12,977.4	11,150.0	46.6	47.8	-179.94	1,815.5	-323.7	675.0	598.5	76.45	8.829	

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 501H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 501H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 501H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 501H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 551H - Anderson Fed Com 551H - Anderson Fed Com 551H - Prelim 1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			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	
12,400.0	10,475.0	13,077.4	11,150.0	48.3	49.3	-179.94	1,915.5	-324.3	675.0	597.2	77.82	8.674	
12,500.0	10,475.0	13,177.4	11,150.0	49.9	51.0	-179.94	2,015.5	-324.9	675.0	595.8	79.21	8.521	
12,600.0	10,475.0	13,277.4	11,150.0	51.6	52.6	-179.94	2,115.5	-325.5	675.0	594.4	80.65	8.370	
12,700.0	10,475.0	13,377.4	11,150.0	53.3	54.3	-179.94	2,215.5	-326.1	675.0	592.9	82.12	8.220	
12,800.0	10,475.0	13,477.4	11,150.0	55.1	56.0	-179.95	2,315.5	-326.7	675.0	591.4	83.62	8.073	
12,900.0	10,475.0	13,577.4	11,150.0	56.8	57.7	-179.95	2,415.5	-327.2	675.0	589.9	85.15	7.928	
13,000.0	10,475.0	13,677.4	11,150.0	58.6	59.5	-179.95	2,515.5	-327.8	675.0	588.3	86.70	7.785	
13,100.0	10,475.0	13,777.4	11,150.0	60.4	61.2	-179.95	2,615.5	-328.4	675.0	586.7	88.29	7.645	
13,200.0	10,475.0	13,877.4	11,150.0	62.2	63.0	-179.95	2,715.5	-329.0	675.0	585.1	89.90	7.509	
13,300.0	10,475.0	13,977.4	11,150.0	64.0	64.8	-179.95	2,815.5	-329.6	675.0	583.5	91.53	7.375	
13,400.0	10,475.0	14,077.4	11,150.0	65.8	66.6	-179.95	2,915.5	-330.2	675.0	581.8	93.19	7.243	
13,500.0	10,475.0	14,177.4	11,150.0	67.6	68.4	-179.95	3,015.5	-330.8	675.0	580.1	94.87	7.115	
13,600.0	10,475.0	14,277.4	11,150.0	69.5	70.3	-179.95	3,115.5	-331.4	675.0	578.4	96.57	6.990	
13,700.0	10,475.0	14,377.4	11,150.0	71.3	72.1	-179.95	3,215.4	-332.0	675.0	576.7	98.28	6.868	
13,800.0	10,475.0	14,477.4	11,150.0	73.2	73.9	-179.95	3,315.4	-332.5	675.0	575.0	100.02	6.749	
13,900.0	10,475.0	14,577.4	11,150.0	75.1	75.8	-179.96	3,415.4	-333.1	675.0	573.2	101.77	6.632	
14,000.0	10,475.0	14,677.4	11,150.0	77.0	77.7	-179.96	3,515.4	-333.7	675.0	571.5	103.54	6.519	
14,100.0	10,475.0	14,777.4	11,150.0	78.9	79.5	-179.96	3,615.4	-334.3	675.0	569.7	105.33	6.408	
14,200.0	10,475.0	14,877.4	11,150.0	80.7	81.4	-179.96	3,715.4	-334.9	675.0	567.9	107.13	6.301	
14,300.0	10,475.0	14,977.4	11,150.0	82.6	83.3	-179.96	3,815.4	-335.5	675.0	566.1	108.95	6.196	
14,400.0	10,475.0	15,077.4	11,150.0	84.6	85.2	-179.96	3,915.4	-336.1	675.0	564.2	110.78	6.093	
14,500.0	10,475.0	15,177.4	11,150.0	86.5	87.1	-179.96	4,015.4	-336.7	675.0	562.4	112.62	5.994	
14,600.0	10,475.0	15,277.4	11,150.0	88.4	89.0	-179.96	4,115.4	-337.3	675.0	560.5	114.47	5.897	
14,700.0	10,475.0	15,377.4	11,150.0	90.3	90.9	-179.96	4,215.4	-337.8	675.0	558.7	116.34	5.802	
14,800.0	10,475.0	15,477.4	11,150.0	92.2	92.8	-179.96	4,315.4	-338.4	675.0	556.8	118.22	5.710	
14,900.0	10,475.0	15,577.4	11,150.0	94.2	94.8	-179.97	4,415.4	-339.0	675.0	554.9	120.10	5.620	
15,000.0	10,475.0	15,677.4	11,150.0	96.1	96.7	-179.97	4,515.4	-339.6	675.0	553.0	122.00	5.533	
15,100.0	10,475.0	15,777.4	11,150.0	98.0	98.6	-179.97	4,615.4	-340.2	675.0	551.1	123.91	5.448	
15,200.0	10,475.0	15,877.4	11,150.0	100.0	100.5	-179.97	4,715.4	-340.8	675.0	549.2	125.83	5.365	
15,300.0	10,475.0	15,977.4	11,150.0	101.9	102.5	-179.97	4,815.4	-341.4	675.0	547.2	127.75	5.284	
15,400.0	10,475.0	16,077.4	11,150.0	103.9	104.4	-179.97	4,915.4	-342.0	675.0	545.3	129.69	5.205	
15,500.0	10,475.0	16,177.4	11,150.0	105.8	106.3	-179.97	5,015.4	-342.6	675.0	543.4	131.63	5.128	
15,600.0	10,475.0	16,277.4	11,150.0	107.8	108.3	-179.97	5,115.4	-343.1	675.0	541.4	133.58	5.053	
15,700.0	10,475.0	16,377.4	11,150.0	109.7	110.2	-179.97	5,215.4	-343.7	675.0	539.5	135.53	4.980	
15,800.0	10,475.0	16,477.4	11,150.0	111.7	112.2	-179.97	5,315.4	-344.3	675.0	537.5	137.50	4.909	
15,900.0	10,475.0	16,577.4	11,150.0	113.6	114.1	-179.98	5,415.4	-344.9	675.0	535.5	139.47	4.840	
16,000.0	10,475.0	16,677.4	11,150.0	115.6	116.1	-179.98	5,515.4	-345.5	675.0	533.6	141.44	4.772	
16,100.0	10,475.0	16,777.4	11,150.0	117.5	118.0	-179.98	5,615.4	-346.1	675.0	531.6	143.43	4.706	
16,200.0	10,475.0	16,877.4	11,150.0	119.5	120.0	-179.98	5,715.4	-346.7	675.0	529.6	145.42	4.642	
16,300.0	10,475.0	16,977.4	11,150.0	121.5	122.0	-179.98	5,815.4	-347.3	675.0	527.6	147.41	4.579	
16,400.0	10,475.0	17,077.4	11,150.0	123.4	123.9	-179.98	5,915.4	-347.9	675.0	525.6	149.41	4.518	
16,500.0	10,475.0	17,177.4	11,150.0	125.4	125.9	-179.98	6,015.4	-348.5	675.0	523.6	151.42	4.458	
16,600.0	10,475.0	17,277.4	11,150.0	127.4	127.8	-179.98	6,115.4	-349.0	675.0	521.6	153.43	4.399	
16,700.0	10,475.0	17,377.4	11,150.0	129.3	129.8	-179.98	6,215.4	-349.6	675.0	519.6	155.44	4.342	
16,800.0	10,475.0	17,477.4	11,150.0	131.3	131.8	-179.98	6,315.4	-350.2	675.0	517.5	157.46	4.287	
16,900.0	10,475.0	17,577.4	11,150.0	133.3	133.7	-179.98	6,415.4	-350.8	675.0	515.5	159.49	4.232	
17,000.0	10,475.0	17,677.4	11,150.0	135.3	135.7	-179.99	6,515.4	-351.4	675.0	513.5	161.52	4.179	
17,100.0	10,475.0	17,777.4	11,150.0	137.2	137.7	-179.99	6,615.4	-352.0	675.0	511.5	163.55	4.127	
17,200.0	10,475.0	17,877.4	11,150.0	139.2	139.7	-179.99	6,715.4	-352.6	675.0	509.4	165.59	4.076	
17,300.0	10,475.0	17,977.4	11,150.0	141.2	141.6	-179.99	6,815.4	-353.2	675.0	507.4	167.63	4.027	
17,400.0	10,475.0	18,077.4	11,150.0	143.2	143.6	-179.99	6,915.4	-353.8	675.0	505.3	169.67	3.978	
17,500.0	10,475.0	18,177.4	11,150.0	145.2	145.6	-179.99	7,015.4	-354.3	675.0	503.3	171.72	3.931	

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 501H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 501H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 501H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 501H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 551H - Anderson Fed Com 551H - Anderson Fed Com 551H - Prelim 1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	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	
17,600.0	10,475.0	18,277.4	11,150.0	147.1	147.6	-179.99	7,115.4	-354.9	675.0	501.2	173.77	3.884		
17,700.0	10,475.0	18,377.4	11,150.0	149.1	149.5	-179.99	7,215.4	-355.5	675.0	499.2	175.83	3.839		
17,800.0	10,475.0	18,477.4	11,150.0	151.1	151.5	-179.99	7,315.4	-356.1	675.0	497.1	177.89	3.795		
17,900.0	10,475.0	18,577.4	11,150.0	153.1	153.5	-179.99	7,415.4	-356.7	675.0	495.1	179.95	3.751		
18,000.0	10,475.0	18,677.4	11,150.0	155.1	155.5	-180.00	7,515.4	-357.3	675.0	493.0	182.01	3.709		
18,100.0	10,475.0	18,777.4	11,150.0	157.1	157.5	-180.00	7,615.4	-357.9	675.0	490.9	184.08	3.667		
18,200.0	10,475.0	18,877.4	11,150.0	159.0	159.4	-180.00	7,715.4	-358.5	675.0	488.9	186.15	3.626		
18,300.0	10,475.0	18,977.4	11,150.0	161.0	161.4	-180.00	7,815.4	-359.1	675.0	486.8	188.22	3.586		
18,400.0	10,475.0	19,077.4	11,150.0	163.0	163.4	-180.00	7,915.4	-359.6	675.0	484.7	190.30	3.547		
18,484.9	10,475.0	19,162.3	11,150.0	164.7	165.1	180.00	8,000.3	-360.1	675.0	482.9	192.06	3.515		



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 501H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 501H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 501H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 501H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 552H - Anderson Fed Com 552H - Anderson Fed Com 552H - Prelim 1													Offset Site Error: 0.0 usft		
Survey Program: 0-MWD+HRGM				Rule Assigned:										Offset Well Error: 0.0 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
0.0	0.0	0.0	0.0	0.0	0.0	89.42	1.0	99.0	99.1						
100.0	100.0	98.0	98.0	0.5	0.5	89.42	1.0	99.0	99.0	98.0	1.05	94.357			
200.0	200.0	198.0	198.0	1.7	1.7	89.42	1.0	99.0	99.0	95.6	3.40	29.132			
300.0	300.0	298.0	298.0	2.4	2.4	89.42	1.0	99.0	99.0	94.2	4.81	20.596			
400.0	400.0	398.0	398.0	3.0	2.9	89.42	1.0	99.0	99.0	93.2	5.90	16.796			
500.0	500.0	498.0	498.0	3.4	3.4	89.42	1.0	99.0	99.0	92.2	6.82	14.521			
600.0	600.0	598.0	598.0	3.8	3.8	89.42	1.0	99.0	99.0	91.4	7.64	12.963			
700.0	700.0	698.0	698.0	4.2	4.2	89.42	1.0	99.0	99.0	90.7	8.39	11.810			
800.0	800.0	798.0	798.0	4.5	4.5	89.42	1.0	99.0	99.0	90.0	9.08	10.912			
900.0	900.0	898.0	898.0	4.9	4.9	89.42	1.0	99.0	99.0	89.3	9.72	10.186			
1,000.0	1,000.0	998.0	998.0	5.2	5.2	89.42	1.0	99.0	99.0	88.7	10.34	9.584			
1,100.0	1,100.0	1,098.0	1,098.0	5.5	5.5	89.42	1.0	99.0	99.0	88.1	10.92	9.073			
1,200.0	1,200.0	1,198.0	1,198.0	5.7	5.7	89.42	1.0	99.0	99.0	87.6	11.47	8.632			
1,300.0	1,300.0	1,298.0	1,298.0	6.0	6.0	89.42	1.0	99.0	99.0	87.0	12.01	8.247			
1,400.0	1,400.0	1,398.0	1,398.0	6.3	6.3	89.42	1.0	99.0	99.0	86.5	12.53	7.907			
1,500.0	1,500.0	1,498.0	1,498.0	6.5	6.5	89.42	1.0	99.0	99.0	86.0	13.03	7.603			
1,600.0	1,600.0	1,598.0	1,598.0	6.8	6.8	89.42	1.0	99.0	99.0	85.5	13.51	7.330			
1,700.0	1,700.0	1,698.0	1,698.0	7.0	7.0	89.42	1.0	99.0	99.0	85.1	13.98	7.083			
1,800.0	1,800.0	1,798.0	1,798.0	7.2	7.2	89.42	1.0	99.0	99.0	84.6	14.45	6.857			
1,900.0	1,900.0	1,898.0	1,898.0	7.4	7.4	89.42	1.0	99.0	99.0	84.2	14.89	6.650			
2,000.0	2,000.0	1,998.0	1,998.0	7.7	7.7	89.42	1.0	99.0	99.0	83.7	15.33	6.459			
2,100.0	2,100.0	2,098.0	2,098.0	7.9	7.9	89.42	1.0	99.0	99.0	83.3	15.77	6.282			
2,200.0	2,200.0	2,198.0	2,198.0	8.1	8.1	89.42	1.0	99.0	99.0	82.9	16.19	6.118			
2,300.0	2,300.0	2,298.0	2,298.0	8.3	8.3	89.42	1.0	99.0	99.0	82.4	16.60	5.965			
2,400.0	2,400.0	2,398.0	2,398.0	8.5	8.5	89.42	1.0	99.0	99.0	82.0	17.01	5.822			
2,500.0	2,500.0	2,498.0	2,498.0	8.7	8.7	89.42	1.0	99.0	99.0	81.6	17.41	5.688			
2,600.0	2,600.0	2,598.0	2,598.0	8.9	8.9	89.42	1.0	99.0	99.0	81.2	17.81	5.562			
2,700.0	2,700.0	2,698.0	2,698.0	9.1	9.1	89.42	1.0	99.0	99.0	80.8	18.20	5.443			
2,800.0	2,800.0	2,798.0	2,798.0	9.3	9.3	89.42	1.0	99.0	99.0	80.5	18.58	5.330			
2,900.0	2,900.0	2,898.0	2,898.0	9.5	9.5	89.42	1.0	99.0	99.0	80.1	18.96	5.224			
3,000.0	3,000.0	2,998.0	2,998.0	9.7	9.7	89.42	1.0	99.0	99.0	79.7	19.34	5.123			
3,100.0	3,100.0	3,098.0	3,098.0	9.9	9.9	89.42	1.0	99.0	99.0	79.3	19.71	5.026			
3,200.0	3,200.0	3,198.0	3,198.0	10.0	10.0	89.42	1.0	99.0	99.0	79.0	20.07	4.935			
3,300.0	3,300.0	3,298.0	3,298.0	10.2	10.2	89.42	1.0	99.0	99.0	78.6	20.43	4.848			
3,400.0	3,400.0	3,398.0	3,398.0	10.4	10.4	89.42	1.0	99.0	99.0	78.3	20.79	4.764			
3,500.0	3,500.0	3,498.0	3,498.0	10.6	10.6	89.42	1.0	99.0	99.0	77.9	21.14	4.684			
3,600.0	3,600.0	3,598.0	3,598.0	10.7	10.7	89.42	1.0	99.0	99.0	77.6	21.50	4.608			
3,700.0	3,700.0	3,698.0	3,698.0	10.9	10.9	89.42	1.0	99.0	99.0	77.2	21.84	4.535			
3,800.0	3,800.0	3,798.0	3,798.0	11.1	11.1	89.42	1.0	99.0	99.0	76.9	22.19	4.464			
3,900.0	3,900.0	3,898.0	3,898.0	11.3	11.3	89.42	1.0	99.0	99.0	76.5	22.53	4.396			
4,000.0	4,000.0	3,998.0	3,998.0	11.4	11.4	89.42	1.0	99.0	99.0	76.2	22.87	4.331			
4,100.0	4,100.0	4,098.0	4,098.0	11.6	11.6	89.42	1.0	99.0	99.0	75.8	23.20	4.269			
4,200.0	4,200.0	4,198.0	4,198.0	11.8	11.8	89.42	1.0	99.0	99.0	75.5	23.54	4.208			
4,300.0	4,300.0	4,298.0	4,298.0	11.9	11.9	89.42	1.0	99.0	99.0	75.2	23.87	4.150			
4,400.0	4,400.0	4,398.0	4,398.0	12.1	12.1	89.42	1.0	99.0	99.0	74.9	24.20	4.094			
4,500.0	4,500.0	4,498.0	4,498.0	12.3	12.3	89.42	1.0	99.0	99.0	74.5	24.52	4.039			
4,600.0	4,600.0	4,598.0	4,598.0	12.4	12.4	89.42	1.0	99.0	99.0	74.2	24.85	3.986			
4,700.0	4,700.0	4,698.0	4,698.0	12.6	12.6	89.42	1.0	99.0	99.0	73.9	25.17	3.935			
4,800.0	4,800.0	4,798.0	4,798.0	12.7	12.7	89.42	1.0	99.0	99.0	73.6	25.49	3.886			
4,900.0	4,900.0	4,898.0	4,898.0	12.9	12.9	89.42	1.0	99.0	99.0	73.2	25.81	3.838			
5,000.0	5,000.0	4,998.0	4,998.0	13.1	13.1	89.42	1.0	99.0	99.0	72.9	26.12	3.792 CC, ES			
5,100.0	5,100.0	5,096.5	5,096.5	13.2	13.2	89.62	0.7	99.8	99.8	73.4	26.38	3.783 SF			

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



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 501H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 501H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 501H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 501H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 552H - Anderson Fed Com 552H - Anderson Fed Com 552H - Prelim 1													Offset Site Error: 0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.0	5,200.0	5,194.9	5,194.8	13.4	13.3	90.21	-0.4	102.1	102.1	75.5	26.63	3.834	
5,300.0	5,300.0	5,293.1	5,293.0	13.5	13.4	-142.39	-2.1	105.9	106.7	79.9	26.83	3.977	
5,400.0	5,400.0	5,391.1	5,390.8	13.6	13.5	-141.96	-4.5	111.2	114.2	87.2	27.02	4.228	
5,500.0	5,499.9	5,488.7	5,488.1	13.7	13.7	-141.75	-7.6	118.0	124.7	97.5	27.25	4.578	
5,600.0	5,599.7	5,587.3	5,586.4	13.8	13.8	-141.80	-11.2	126.0	137.7	110.2	27.47	5.012	
5,649.9	5,649.4	5,636.7	5,635.6	13.8	13.9	-141.97	-13.0	130.0	144.7	117.1	27.59	5.245	
5,700.0	5,699.4	5,686.3	5,684.9	13.9	14.0	-142.22	-14.8	134.1	151.9	124.2	27.70	5.482	
5,800.0	5,799.1	5,785.3	5,783.5	14.0	14.2	-142.65	-18.5	142.1	166.3	138.3	28.02	5.935	
5,900.0	5,898.8	5,884.2	5,882.1	14.2	14.4	-143.01	-22.1	150.2	180.7	152.3	28.37	6.369	
6,000.0	5,998.5	5,983.2	5,980.6	14.4	14.6	-143.32	-25.8	158.2	195.0	166.3	28.74	6.786	
6,100.0	6,098.2	6,082.1	6,079.2	14.6	14.9	-143.58	-29.4	166.3	209.4	180.3	29.14	7.186	
6,200.0	6,197.8	6,181.1	6,177.7	14.8	15.2	-143.81	-33.1	174.4	223.8	194.3	29.57	7.570	
6,300.0	6,297.5	6,280.0	6,276.3	15.1	15.5	-144.02	-36.7	182.4	238.3	208.2	30.02	7.936	
6,400.0	6,397.2	6,379.0	6,374.8	15.3	15.8	-144.20	-40.4	190.5	252.7	222.2	30.49	8.285	
6,500.0	6,496.9	6,477.9	6,473.4	15.6	16.1	-144.36	-44.0	198.5	267.1	236.1	30.99	8.618	
6,600.0	6,596.6	6,576.9	6,572.0	15.9	16.4	-144.50	-47.7	206.6	281.5	250.0	31.50	8.935	
6,700.0	6,696.3	6,675.9	6,670.5	16.2	16.7	-144.63	-51.3	214.6	295.9	263.9	32.04	9.236	
6,800.0	6,796.0	6,774.8	6,769.1	16.5	17.1	-144.75	-54.9	222.7	310.3	277.7	32.59	9.522	
6,900.0	6,895.7	6,873.8	6,867.6	16.8	17.4	-144.85	-58.6	230.8	324.7	291.6	33.16	9.793	
7,000.0	6,995.4	6,972.7	6,966.2	17.1	17.8	-144.95	-62.2	238.8	339.1	305.4	33.75	10.050	
7,100.0	7,095.1	7,071.7	7,064.7	17.5	18.2	-145.04	-65.9	246.9	353.6	319.2	34.35	10.293	
7,200.0	7,194.8	7,170.6	7,163.3	17.8	18.6	-145.13	-69.5	254.9	368.0	333.0	34.97	10.523	
7,300.0	7,294.5	7,269.6	7,261.9	18.2	18.9	-145.20	-73.2	263.0	382.4	346.8	35.60	10.741	
7,400.0	7,394.1	7,368.5	7,360.4	18.5	19.3	-145.27	-76.8	271.1	396.8	360.6	36.25	10.948	
7,500.0	7,493.8	7,467.5	7,459.0	18.9	19.7	-145.34	-80.5	279.1	411.2	374.3	36.91	11.143	
7,600.0	7,593.5	7,566.4	7,557.5	19.3	20.2	-145.40	-84.1	287.2	425.7	388.1	37.58	11.328	
7,700.0	7,693.2	7,665.4	7,656.1	19.7	20.6	-145.46	-87.8	295.2	440.1	401.8	38.26	11.503	
7,800.0	7,792.9	7,764.3	7,754.6	20.1	21.0	-145.51	-91.4	303.3	454.5	415.5	38.95	11.668	
7,900.0	7,892.6	7,863.3	7,853.2	20.5	21.4	-145.57	-95.0	311.3	468.9	429.3	39.66	11.825	
8,000.0	7,992.3	7,962.3	7,951.8	20.9	21.8	-145.61	-98.7	319.4	483.3	443.0	40.37	11.973	
8,100.0	8,092.0	8,061.2	8,050.3	21.3	22.3	-145.66	-102.3	327.5	497.8	456.7	41.09	12.113	
8,200.0	8,191.7	8,160.2	8,148.9	21.7	22.7	-145.70	-106.0	335.5	512.2	470.4	41.83	12.246	
8,300.0	8,291.4	8,259.1	8,247.4	22.1	23.2	-145.74	-109.6	343.6	526.6	484.0	42.57	12.372	
8,400.0	8,391.1	8,358.1	8,346.0	22.6	23.6	-145.78	-113.3	351.6	541.0	497.7	43.31	12.491	
8,500.0	8,490.8	8,457.0	8,444.6	23.0	24.1	-145.81	-116.9	359.7	555.5	511.4	44.07	12.604	
8,600.0	8,590.4	8,556.0	8,543.1	23.4	24.5	-145.85	-120.6	367.8	569.9	525.1	44.83	12.711	
8,700.0	8,690.1	8,654.9	8,641.7	23.9	25.0	-145.88	-124.2	375.8	584.3	538.7	45.60	12.813	
8,800.0	8,789.8	8,753.9	8,740.2	24.3	25.4	-145.91	-127.9	383.9	598.7	552.4	46.38	12.909	
8,900.0	8,889.5	8,852.8	8,838.8	24.7	25.9	-145.94	-131.5	391.9	613.2	566.0	47.16	13.001	
9,000.0	8,989.2	8,951.8	8,937.3	25.2	26.4	-145.97	-135.1	400.0	627.6	579.6	47.95	13.087	
9,100.0	9,088.9	9,050.7	9,035.9	25.6	26.9	-146.00	-138.8	408.0	642.0	593.3	48.75	13.170	
9,200.0	9,188.6	9,149.7	9,134.5	26.1	27.3	-146.02	-142.4	416.1	656.4	606.9	49.55	13.249	
9,300.0	9,288.3	9,248.6	9,233.0	26.5	27.8	-146.05	-146.1	424.2	670.9	620.5	50.35	13.323	
9,400.0	9,388.0	9,347.6	9,331.6	27.0	28.3	-146.07	-149.7	432.2	685.3	634.1	51.16	13.394	
9,462.8	9,450.6	9,409.7	9,393.4	27.3	28.6	-146.08	-152.0	437.3	694.3	642.7	51.66	13.441	
9,500.0	9,487.7	9,446.6	9,430.1	27.4	28.8	-146.12	-153.4	440.3	699.6	647.7	51.95	13.468	
9,600.0	9,587.5	9,545.7	9,528.9	27.9	29.2	-146.14	-157.0	448.4	712.8	660.0	52.74	13.515	
9,700.0	9,687.4	9,645.0	9,627.8	28.3	29.7	-146.09	-160.7	456.4	724.5	671.0	53.52	13.538	
9,800.0	9,787.3	9,744.4	9,726.8	28.7	30.2	-145.95	-164.3	464.5	734.8	680.6	54.26	13.542	
9,900.0	9,887.3	9,844.0	9,826.0	28.9	30.7	-145.73	-168.0	472.6	743.7	688.8	54.94	13.536	
9,912.7	9,900.0	9,856.6	9,838.5	29.0	30.8	87.57	-168.5	473.7	744.7	689.7	55.01	13.538	
10,000.0	9,987.3	9,943.6	9,925.2	29.0	31.2	87.83	-171.7	480.8	751.7	696.3	55.44	13.559	

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 501H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 501H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 501H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 501H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 552H - Anderson Fed Com 552H - Anderson Fed Com 552H - Prelim 1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM				Rule Assigned:									Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			Minimum Separation (usft)	
10,010.2	9,997.5	9,953.7	9,935.3	29.0	31.3	87.87	-172.1	481.6	752.5	697.0	55.49	13.562		
10,025.0	10,012.3	9,968.5	9,949.9	29.0	31.3	92.35	-172.6	482.8	753.7	698.2	55.56	13.567		
10,050.0	10,037.3	9,993.3	9,974.6	29.0	31.5	92.28	-173.5	484.8	755.8	700.1	55.67	13.576		
10,075.0	10,062.1	10,017.9	9,999.2	28.9	31.6	92.30	-174.4	486.8	757.9	702.1	55.78	13.586		
10,100.0	10,086.8	10,042.3	10,023.5	28.9	31.7	92.40	-175.3	488.8	760.1	704.2	55.89	13.599		
10,125.0	10,111.2	10,066.4	10,047.5	28.8	31.8	92.58	-176.2	490.8	762.4	706.4	56.00	13.615		
10,150.0	10,135.3	10,090.1	10,071.1	28.7	31.9	92.83	-177.1	492.7	764.8	708.7	56.10	13.634		
10,175.0	10,159.1	10,113.4	10,094.3	28.7	32.1	93.13	-177.9	494.6	767.4	711.2	56.19	13.658		
10,200.0	10,182.4	10,136.2	10,117.0	28.6	32.2	93.47	-178.8	496.4	770.2	713.9	56.27	13.687		
10,225.0	10,205.2	10,158.7	10,139.4	28.6	32.3	93.86	-179.6	498.3	773.2	716.8	56.35	13.720		
10,250.0	10,227.4	10,183.4	10,164.1	28.5	32.4	94.37	-180.5	500.2	776.3	719.9	56.43	13.757		
10,275.0	10,249.0	10,207.5	10,188.0	28.4	32.5	94.91	-181.3	502.0	779.8	723.2	56.51	13.799		
10,300.0	10,269.9	10,230.8	10,211.3	28.4	32.6	95.45	-182.1	503.7	783.4	726.9	56.58	13.847		
10,325.0	10,290.0	10,253.3	10,233.7	28.3	32.7	95.98	-182.8	505.2	787.4	730.8	56.64	13.903		
10,350.0	10,309.4	10,274.9	10,255.2	28.3	32.8	96.48	-183.4	506.6	791.8	735.1	56.69	13.968		
10,375.0	10,327.9	10,295.5	10,275.8	28.2	32.9	96.93	-184.0	507.9	796.6	739.8	56.73	14.042		
10,400.0	10,345.4	10,315.2	10,295.4	28.2	33.0	97.33	-184.5	509.0	801.8	745.1	56.75	14.129		
10,425.0	10,362.1	10,333.8	10,314.0	28.2	33.1	97.65	-184.9	510.1	807.6	750.8	56.76	14.228		
10,450.0	10,377.7	10,351.3	10,331.5	28.2	33.2	97.87	-185.4	511.0	813.9	757.1	56.76	14.339		
10,475.0	10,392.3	10,367.6	10,347.8	28.2	33.2	97.98	-185.7	511.8	820.8	764.0	56.74	14.465		
10,500.0	10,405.8	10,382.7	10,362.9	28.2	33.3	97.97	-186.0	512.5	828.3	771.6	56.71	14.605		
10,525.0	10,418.2	10,396.6	10,376.7	28.2	33.4	97.82	-186.3	513.1	836.4	779.8	56.67	14.760		
10,550.0	10,429.5	10,409.1	10,389.2	28.2	33.4	97.52	-186.6	513.6	845.2	788.6	56.61	14.932		
10,575.0	10,439.5	10,420.3	10,400.4	28.2	33.5	97.05	-186.8	514.1	854.7	798.1	56.53	15.119		
10,600.0	10,448.4	10,430.1	10,410.3	28.3	33.5	96.40	-186.9	514.5	864.8	808.3	56.44	15.323		
10,625.0	10,456.0	10,438.6	10,418.7	28.3	33.5	95.56	-187.1	514.8	875.5	819.2	56.33	15.542		
10,650.0	10,462.3	10,445.5	10,425.6	28.4	33.6	94.52	-187.2	515.0	886.9	830.7	56.21	15.777		
10,675.0	10,467.4	10,451.0	10,431.1	28.4	33.6	93.27	-187.3	515.2	898.9	842.8	56.08	16.027		
10,700.0	10,471.2	10,454.9	10,435.0	28.5	33.6	91.82	-187.3	515.4	911.4	855.5	55.94	16.292		
10,725.0	10,473.7	10,457.4	10,437.5	28.6	33.6	90.15	-187.4	515.4	924.5	868.7	55.79	16.572		
10,750.0	10,474.9	10,458.3	10,438.3	28.7	33.6	88.28	-187.4	515.5	938.1	882.5	55.63	16.864		
10,760.2	10,475.0	10,458.2	10,438.3	28.8	33.6	87.46	-187.4	515.5	943.8	888.2	55.56	16.987		
10,760.6	10,475.0	10,458.2	10,438.3	28.8	33.6	87.46	-187.4	515.5	944.0	888.4	55.56	16.991		
10,800.0	10,475.0	10,457.3	10,437.4	29.0	33.6	87.42	-187.4	515.4	966.3	911.0	55.29	17.477		

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 501H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 501H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 501H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 501H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 601H - Anderson Fed Com 601H - Anderson Fed Com 601H - Prelim 1											Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM											Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Rule Assigned:	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
0.0	0.0	0.0	0.0	0.0	0.0	89.32	0.8	66.0	66.0			
100.0	100.0	99.0	99.0	0.5	0.5	89.32	0.8	66.0	66.0	65.0	1.06	62.589
200.0	200.0	199.0	199.0	1.7	1.7	89.32	0.8	66.0	66.0	62.6	3.41	19.354
300.0	300.0	299.0	299.0	2.4	2.4	89.32	0.8	66.0	66.0	61.2	4.82	13.711
400.0	400.0	399.0	399.0	3.0	2.9	89.32	0.8	66.0	66.0	60.1	5.90	11.187
500.0	500.0	499.0	499.0	3.4	3.4	89.32	0.8	66.0	66.0	59.2	6.83	9.674
600.0	600.0	599.0	599.0	3.8	3.8	89.32	0.8	66.0	66.0	58.4	7.64	8.638
700.0	700.0	699.0	699.0	4.2	4.2	89.32	0.8	66.0	66.0	57.6	8.39	7.870
800.0	800.0	799.0	799.0	4.5	4.5	89.32	0.8	66.0	66.0	57.0	9.08	7.272
900.0	900.0	899.0	899.0	4.9	4.9	89.32	0.8	66.0	66.0	56.3	9.73	6.789
1,000.0	1,000.0	999.0	999.0	5.2	5.2	89.32	0.8	66.0	66.0	55.7	10.34	6.387
1,100.0	1,100.0	1,099.0	1,099.0	5.5	5.5	89.32	0.8	66.0	66.0	55.1	10.92	6.047
1,200.0	1,200.0	1,199.0	1,199.0	5.7	5.7	89.32	0.8	66.0	66.0	54.6	11.48	5.753
1,300.0	1,300.0	1,299.0	1,299.0	6.0	6.0	89.32	0.8	66.0	66.0	54.0	12.01	5.497
1,400.0	1,400.0	1,399.0	1,399.0	6.3	6.3	89.32	0.8	66.0	66.0	53.5	12.53	5.270
1,500.0	1,500.0	1,499.0	1,499.0	6.5	6.5	89.32	0.8	66.0	66.0	53.0	13.03	5.068
1,600.0	1,600.0	1,599.0	1,599.0	6.8	6.8	89.32	0.8	66.0	66.0	52.5	13.51	4.886
1,700.0	1,700.0	1,699.0	1,699.0	7.0	7.0	89.32	0.8	66.0	66.0	52.0	13.99	4.721
1,800.0	1,800.0	1,799.0	1,799.0	7.2	7.2	89.32	0.8	66.0	66.0	51.6	14.45	4.571
1,900.0	1,900.0	1,899.0	1,899.0	7.4	7.4	89.32	0.8	66.0	66.0	51.1	14.90	4.433
2,000.0	2,000.0	1,999.0	1,999.0	7.7	7.7	89.32	0.8	66.0	66.0	50.7	15.34	4.305
2,100.0	2,100.0	2,099.0	2,099.0	7.9	7.9	89.32	0.8	66.0	66.0	50.3	15.77	4.188
2,200.0	2,200.0	2,199.0	2,199.0	8.1	8.1	89.32	0.8	66.0	66.0	49.8	16.19	4.078
2,300.0	2,300.0	2,299.0	2,299.0	8.3	8.3	89.32	0.8	66.0	66.0	49.4	16.61	3.976
2,400.0	2,400.0	2,399.0	2,399.0	8.5	8.5	89.32	0.8	66.0	66.0	49.0	17.01	3.881
2,500.0	2,500.0	2,499.0	2,499.0	8.7	8.7	89.32	0.8	66.0	66.0	48.6	17.42	3.792
2,600.0	2,600.0	2,599.0	2,599.0	8.9	8.9	89.32	0.8	66.0	66.0	48.2	17.81	3.708
2,700.0	2,700.0	2,699.0	2,699.0	9.1	9.1	89.32	0.8	66.0	66.0	47.8	18.20	3.628
2,800.0	2,800.0	2,799.0	2,799.0	9.3	9.3	89.32	0.8	66.0	66.0	47.4	18.58	3.553
2,900.0	2,900.0	2,899.0	2,899.0	9.5	9.5	89.32	0.8	66.0	66.0	47.1	18.96	3.482
3,000.0	3,000.0	2,999.0	2,999.0	9.7	9.7	89.32	0.8	66.0	66.0	46.7	19.34	3.415
3,100.0	3,100.0	3,099.0	3,099.0	9.9	9.9	89.32	0.8	66.0	66.0	46.3	19.71	3.351
3,200.0	3,200.0	3,199.0	3,199.0	10.0	10.0	89.32	0.8	66.0	66.0	46.0	20.07	3.290
3,300.0	3,300.0	3,299.0	3,299.0	10.2	10.2	89.32	0.8	66.0	66.0	45.6	20.43	3.231
3,400.0	3,400.0	3,399.0	3,399.0	10.4	10.4	89.32	0.8	66.0	66.0	45.2	20.79	3.176
3,500.0	3,500.0	3,499.0	3,499.0	10.6	10.6	89.32	0.8	66.0	66.0	44.9	21.15	3.123
3,600.0	3,600.0	3,599.0	3,599.0	10.7	10.7	89.32	0.8	66.0	66.0	44.5	21.50	3.072
3,700.0	3,700.0	3,699.0	3,699.0	10.9	10.9	89.32	0.8	66.0	66.0	44.2	21.84	3.023
3,800.0	3,800.0	3,799.0	3,799.0	11.1	11.1	89.32	0.8	66.0	66.0	43.8	22.19	2.976
3,900.0	3,900.0	3,899.0	3,899.0	11.3	11.3	89.32	0.8	66.0	66.0	43.5	22.53	2.931
4,000.0	4,000.0	3,999.0	3,999.0	11.4	11.4	89.32	0.8	66.0	66.0	43.2	22.87	2.887
4,100.0	4,100.0	4,099.0	4,099.0	11.6	11.6	89.32	0.8	66.0	66.0	42.8	23.21	2.846
4,200.0	4,200.0	4,199.0	4,199.0	11.8	11.8	89.32	0.8	66.0	66.0	42.5	23.54	2.805
4,300.0	4,300.0	4,299.0	4,299.0	11.9	11.9	89.32	0.8	66.0	66.0	42.2	23.87	2.766
4,400.0	4,400.0	4,399.0	4,399.0	12.1	12.1	89.32	0.8	66.0	66.0	41.8	24.20	2.729
4,500.0	4,500.0	4,499.0	4,499.0	12.3	12.3	89.32	0.8	66.0	66.0	41.5	24.52	2.693
4,600.0	4,600.0	4,599.0	4,599.0	12.4	12.4	89.32	0.8	66.0	66.0	41.2	24.85	2.657
4,700.0	4,700.0	4,699.0	4,699.0	12.6	12.6	89.32	0.8	66.0	66.0	40.9	25.17	2.623
4,800.0	4,800.0	4,799.0	4,799.0	12.7	12.7	89.32	0.8	66.0	66.0	40.5	25.49	2.591
4,900.0	4,900.0	4,899.0	4,899.0	12.9	12.9	89.32	0.8	66.0	66.0	40.2	25.81	2.559
5,000.0	5,000.0	4,999.0	4,999.0	13.1	13.1	89.32	0.8	66.0	66.0	39.9	26.12	2.528
5,100.0	5,100.0	5,099.0	5,099.0	13.2	13.2	89.32	0.8	66.0	66.0	39.6	26.44	2.498

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 501H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 501H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 501H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 501H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 601H - Anderson Fed Com 601H - Anderson Fed Com 601H - Prelim 1													Offset Site Error: 0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.0	5,200.0	5,199.0	5,199.0	13.4	13.4	89.32	0.8	66.0	66.0	39.3	26.75	2.469	CC, ES, SF
5,300.0	5,300.0	5,299.0	5,299.0	13.5	13.5	-144.39	0.8	66.0	66.7	39.7	27.00	2.472	
5,400.0	5,400.0	5,399.0	5,399.0	13.6	13.7	-145.64	0.8	66.0	68.9	41.6	27.24	2.529	
5,500.0	5,499.9	5,498.9	5,498.9	13.7	13.8	-147.57	0.8	66.0	72.5	45.0	27.49	2.639	
5,600.0	5,599.7	5,598.7	5,598.7	13.8	14.0	-149.95	0.8	66.0	77.8	50.0	27.75	2.802	
5,649.9	5,649.4	5,649.0	5,649.0	13.8	14.0	-151.18	0.7	65.9	80.8	53.0	27.83	2.903	
5,700.0	5,699.4	5,699.6	5,699.6	13.9	14.1	-152.26	0.2	65.4	83.7	55.8	27.91	2.999	
5,800.0	5,799.1	5,800.8	5,800.8	14.0	14.2	-153.77	-1.5	63.3	88.4	60.3	28.12	3.145	
5,900.0	5,898.8	5,902.2	5,902.0	14.2	14.3	-154.61	-4.3	59.9	91.7	63.3	28.36	3.232	
6,000.0	5,998.5	6,002.9	6,002.6	14.4	14.3	-154.94	-8.1	55.3	93.5	64.9	28.58	3.272	
6,100.0	6,098.2	6,102.9	6,102.4	14.6	14.4	-155.19	-12.1	50.6	95.2	66.3	28.88	3.296	
6,200.0	6,197.8	6,202.8	6,202.1	14.8	14.6	-155.43	-16.1	45.8	96.8	67.6	29.22	3.315	
6,300.0	6,297.5	6,302.8	6,301.9	15.1	14.7	-155.66	-20.0	41.1	98.5	68.9	29.58	3.330	
6,400.0	6,397.2	6,402.8	6,401.7	15.3	14.9	-155.88	-24.0	36.3	100.2	70.2	29.97	3.343	
6,500.0	6,496.9	6,502.8	6,501.5	15.6	15.1	-156.09	-27.9	31.6	101.8	71.5	30.38	3.352	
6,600.0	6,596.6	6,602.8	6,601.3	15.9	15.3	-156.30	-31.9	26.8	103.5	72.7	30.82	3.358	
6,700.0	6,696.3	6,702.8	6,701.1	16.2	15.5	-156.50	-35.8	22.1	105.2	73.9	31.29	3.362	
6,800.0	6,796.0	6,802.8	6,800.9	16.5	15.8	-156.70	-39.8	17.3	106.9	75.1	31.77	3.363	
6,900.0	6,895.7	6,902.7	6,900.7	16.8	16.0	-156.89	-43.7	12.6	108.5	76.2	32.28	3.362	
7,000.0	6,995.4	7,002.7	7,000.5	17.1	16.2	-157.07	-47.7	7.8	110.2	77.4	32.81	3.359	
7,100.0	7,095.1	7,102.7	7,100.3	17.5	16.5	-157.25	-51.7	3.1	111.9	78.5	33.36	3.353	
7,200.0	7,194.8	7,202.7	7,200.1	17.8	16.8	-157.43	-55.6	-1.7	113.5	79.6	33.93	3.346	
7,300.0	7,294.5	7,302.7	7,299.9	18.2	17.1	-157.59	-59.6	-6.4	115.2	80.7	34.52	3.338	
7,400.0	7,394.1	7,402.7	7,399.7	18.5	17.4	-157.76	-63.5	-11.1	116.9	81.8	35.13	3.328	
7,500.0	7,493.8	7,502.7	7,499.5	18.9	17.7	-157.92	-67.5	-15.9	118.6	82.8	35.75	3.317	
7,600.0	7,593.5	7,602.6	7,599.3	19.3	18.0	-158.07	-71.4	-20.6	120.3	83.9	36.39	3.305	
7,700.0	7,693.2	7,702.6	7,699.1	19.7	18.3	-158.22	-75.4	-25.4	121.9	84.9	37.04	3.292	
7,800.0	7,792.9	7,802.6	7,798.9	20.1	18.6	-158.37	-79.4	-30.1	123.6	85.9	37.71	3.278	
7,900.0	7,892.6	7,902.6	7,898.6	20.5	19.0	-158.51	-83.3	-34.9	125.3	86.9	38.39	3.264	
8,000.0	7,992.3	8,002.6	7,998.4	20.9	19.3	-158.65	-87.3	-39.6	127.0	87.9	39.09	3.249	
8,100.0	8,092.0	8,102.6	8,098.2	21.3	19.7	-158.78	-91.2	-44.4	128.7	88.9	39.80	3.233	
8,200.0	8,191.7	8,202.6	8,198.0	21.7	20.0	-158.91	-95.2	-49.1	130.4	89.8	40.52	3.217	
8,300.0	8,291.4	8,302.5	8,297.8	22.1	20.4	-159.04	-99.1	-53.9	132.0	90.8	41.25	3.201	
8,400.0	8,391.1	8,402.5	8,397.6	22.6	20.8	-159.16	-103.1	-58.6	133.7	91.7	41.99	3.185	
8,500.0	8,490.8	8,502.5	8,497.4	23.0	21.1	-159.28	-107.0	-63.4	135.4	92.7	42.74	3.168	
8,600.0	8,590.4	8,602.5	8,597.2	23.4	21.5	-159.40	-111.0	-68.1	137.1	93.6	43.51	3.151	
8,700.0	8,690.1	8,702.5	8,697.0	23.9	21.9	-159.52	-115.0	-72.9	138.8	94.5	44.28	3.134	
8,800.0	8,789.8	8,802.5	8,796.8	24.3	22.3	-159.63	-118.9	-77.6	140.5	95.4	45.06	3.117	
8,900.0	8,889.5	8,902.5	8,896.6	24.7	22.7	-159.74	-122.9	-82.4	142.2	96.3	45.85	3.101	
9,000.0	8,989.2	9,002.4	8,996.4	25.2	23.1	-159.85	-126.8	-87.1	143.8	97.2	46.64	3.084	
9,100.0	9,088.9	9,102.4	9,096.2	25.6	23.5	-159.95	-130.8	-91.8	145.5	98.1	47.45	3.067	
9,200.0	9,188.6	9,202.4	9,196.0	26.1	23.9	-160.06	-134.7	-96.6	147.2	99.0	48.26	3.051	
9,300.0	9,288.3	9,302.4	9,295.8	26.5	24.3	-160.16	-138.7	-101.3	148.9	99.8	49.08	3.034	
9,400.0	9,388.0	9,402.4	9,395.6	27.0	24.7	-160.26	-142.6	-106.1	150.6	100.7	49.91	3.018	
9,462.8	9,450.6	9,465.1	9,458.2	27.3	25.0	-160.32	-145.1	-109.1	151.7	101.3	50.41	3.008	
9,500.0	9,487.7	9,502.4	9,495.4	27.4	25.1	-160.34	-146.6	-110.8	152.2	101.5	50.71	3.001	
9,600.0	9,587.5	9,602.4	9,595.2	27.9	25.5	-160.24	-150.6	-115.6	152.4	101.0	51.48	2.961	
9,700.0	9,687.4	9,702.3	9,695.0	28.3	26.0	-159.91	-154.5	-120.3	151.1	98.9	52.20	2.894	
9,800.0	9,787.3	9,802.3	9,794.7	28.7	26.4	-159.34	-158.5	-125.1	148.0	95.2	52.83	2.802	
9,900.0	9,887.3	9,902.2	9,894.4	28.9	26.8	-158.48	-162.4	-129.8	143.4	90.1	53.31	2.690	
9,912.7	9,900.0	9,914.8	9,907.0	29.0	26.9	74.92	-162.9	-130.4	142.7	89.4	53.35	2.675	
10,000.0	9,987.3	10,002.0	9,994.0	29.0	27.2	75.85	-166.4	-134.6	137.8	84.3	53.52	2.575	

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



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 501H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 501H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 501H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 501H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 601H - Anderson Fed Com 601H - Anderson Fed Com 601H - Prelim 1													Offset Site Error: 0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.0 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Rule Assigned:				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,010.2	9,997.5	10,012.2	10,004.2	29.0	27.3	75.97	-166.8	-135.0	137.3	83.7	53.54	2.564	
10,025.0	10,012.3	10,026.9	10,018.9	29.0	27.3	80.89	-167.4	-135.7	136.4	82.9	53.54	2.548	
10,050.0	10,037.3	10,051.8	10,043.7	29.0	27.4	81.97	-168.3	-136.9	134.8	81.4	53.42	2.523	
10,075.0	10,062.1	10,076.5	10,068.4	28.9	27.5	83.62	-169.3	-138.1	133.1	79.9	53.16	2.503	
10,100.0	10,086.8	10,101.0	10,092.8	28.9	27.7	85.86	-170.3	-139.2	131.4	78.6	52.74	2.491	
10,125.0	10,111.2	10,125.1	10,116.9	28.8	27.8	88.65	-171.2	-140.4	129.7	77.6	52.12	2.489	
10,150.0	10,135.3	10,149.0	10,140.7	28.7	27.9	91.95	-172.2	-141.5	128.5	77.2	51.28	2.505	
10,175.0	10,159.1	10,172.4	10,164.1	28.7	28.0	95.70	-173.1	-142.6	127.7	77.5	50.20	2.545	
10,185.3	10,168.7	10,181.9	10,173.6	28.7	28.0	97.35	-173.5	-143.1	127.7	78.0	49.68	2.570	
10,200.0	10,182.4	10,195.3	10,187.0	28.6	28.1	99.79	-174.0	-143.7	127.8	79.0	48.87	2.616	
10,225.0	10,205.2	10,217.7	10,209.3	28.6	28.2	104.08	-174.9	-144.8	129.0	81.7	47.33	2.726	
10,250.0	10,227.4	10,239.5	10,231.0	28.5	28.3	108.44	-175.8	-145.8	131.6	85.9	45.63	2.883	
10,275.0	10,249.0	10,260.6	10,252.1	28.4	28.3	112.73	-176.6	-146.8	135.7	91.8	43.90	3.091	
10,300.0	10,269.9	10,280.9	10,272.4	28.4	28.4	116.80	-177.4	-147.8	141.5	99.3	42.25	3.350	
10,325.0	10,290.0	10,300.5	10,292.0	28.3	28.5	120.55	-178.2	-148.7	149.2	108.4	40.81	3.657	
10,350.0	10,309.4	10,319.3	10,310.7	28.3	28.6	123.92	-178.9	-149.6	158.8	119.1	39.66	4.004	
10,375.0	10,327.9	10,337.1	10,328.5	28.2	28.7	126.86	-179.6	-150.5	170.1	131.3	38.82	4.382	
10,400.0	10,345.4	10,354.0	10,345.4	28.2	28.8	129.34	-180.3	-151.3	183.1	144.9	38.28	4.784	
10,425.0	10,362.1	10,370.0	10,361.3	28.2	28.8	131.35	-180.9	-152.0	197.7	159.8	37.99	5.205	
10,450.0	10,377.7	10,384.9	10,376.2	28.2	28.9	132.89	-181.5	-152.7	213.8	175.9	37.90	5.641	
10,475.0	10,392.3	10,398.7	10,390.0	28.2	28.9	133.95	-182.1	-153.4	231.2	193.2	37.95	6.091	
10,500.0	10,405.8	10,411.5	10,402.7	28.2	29.0	134.51	-182.6	-154.0	249.7	211.6	38.10	6.554	
10,525.0	10,418.2	10,423.1	10,414.3	28.2	29.1	134.56	-183.0	-154.5	269.3	231.0	38.30	7.031	
10,550.0	10,429.5	10,433.5	10,424.7	28.2	29.1	134.04	-183.4	-155.0	289.8	251.3	38.54	7.521	
10,575.0	10,439.5	10,442.7	10,433.9	28.2	29.1	132.86	-183.8	-155.5	311.1	272.3	38.78	8.023	
10,600.0	10,448.4	10,450.7	10,441.9	28.3	29.2	130.92	-184.1	-155.9	333.1	294.1	39.03	8.536	
10,625.0	10,456.0	10,457.5	10,448.6	28.3	29.2	128.03	-184.4	-156.2	355.8	316.5	39.27	9.060	
10,650.0	10,462.3	10,462.9	10,454.1	28.4	29.2	123.96	-184.6	-156.4	378.9	339.4	39.50	9.593	
10,675.0	10,467.4	10,467.1	10,458.3	28.4	29.3	118.36	-184.8	-156.6	402.4	362.7	39.71	10.134	
10,700.0	10,471.2	10,470.0	10,461.2	28.5	29.3	110.88	-184.9	-156.8	426.3	386.4	39.91	10.681	
10,725.0	10,473.7	10,471.6	10,462.8	28.6	29.3	101.23	-184.9	-156.8	450.4	410.3	40.09	11.233	
10,750.0	10,474.9	10,471.9	10,463.1	28.7	29.3	89.51	-185.0	-156.9	474.6	434.4	40.26	11.788	
10,760.2	10,475.0	10,471.7	10,462.8	28.8	29.3	84.30	-184.9	-156.9	484.6	444.2	40.33	12.015	
10,760.6	10,475.0	10,471.7	10,462.8	28.8	29.3	84.29	-184.9	-156.8	484.9	444.6	40.33	12.023	
10,800.0	10,475.0	10,470.3	10,461.4	29.0	29.3	83.94	-184.9	-156.8	523.3	482.7	40.57	12.898	
10,900.0	10,475.0	10,466.5	10,457.7	29.7	29.2	83.28	-184.7	-156.6	620.7	579.5	41.15	15.085	
10,971.4	10,475.0	10,463.8	10,454.9	30.2	29.2	82.96	-184.6	-156.5	690.3	648.8	41.53	16.622	
11,000.0	10,475.0	10,462.6	10,453.8	30.4	29.2	82.55	-184.6	-156.4	718.2	676.5	41.67	17.234	
11,100.0	10,475.0	10,458.7	10,449.9	31.2	29.2	81.14	-184.4	-156.2	816.0	773.9	42.12	19.375	
11,200.0	10,475.0	10,454.8	10,446.0	32.0	29.2	79.74	-184.3	-156.0	914.4	871.9	42.50	21.517	

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 501H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 501H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 501H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 501H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 701H - Anderson Fed Com 701H - Anderson Fed Com 701H - Prelim 1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
				(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	0.0	0.0	0.0	0.0	-91.00	-0.6	-33.0	33.0				
100.0	100.0	100.0	100.0	0.5	0.5	-91.00	-0.6	-33.0	33.0	32.0	1.06	31.140	
200.0	200.0	200.0	200.0	1.7	1.7	-91.00	-0.6	-33.0	33.0	29.6	3.42	9.644	
300.0	300.0	300.0	300.0	2.4	2.4	-91.00	-0.6	-33.0	33.0	28.2	4.82	6.846	
400.0	400.0	400.0	400.0	3.0	3.0	-91.00	-0.6	-33.0	33.0	27.1	5.91	5.589	
500.0	500.0	500.0	500.0	3.4	3.4	-91.00	-0.6	-33.0	33.0	26.2	6.83	4.834	
600.0	600.0	600.0	600.0	3.8	3.8	-91.00	-0.6	-33.0	33.0	25.4	7.65	4.317	
700.0	700.0	700.0	700.0	4.2	4.2	-91.00	-0.6	-33.0	33.0	24.6	8.39	3.934	
800.0	800.0	800.0	800.0	4.5	4.5	-91.00	-0.6	-33.0	33.0	23.9	9.08	3.635	
900.0	900.0	900.0	900.0	4.9	4.9	-91.00	-0.6	-33.0	33.0	23.3	9.73	3.393	
1,000.0	1,000.0	1,000.0	1,000.0	5.2	5.2	-91.00	-0.6	-33.0	33.0	22.7	10.34	3.193	
1,100.0	1,100.0	1,100.0	1,100.0	5.5	5.5	-91.00	-0.6	-33.0	33.0	22.1	10.92	3.023	
1,200.0	1,200.0	1,200.0	1,200.0	5.7	5.7	-91.00	-0.6	-33.0	33.0	21.5	11.48	2.876	
1,300.0	1,300.0	1,300.0	1,300.0	6.0	6.0	-91.00	-0.6	-33.0	33.0	21.0	12.01	2.748	
1,400.0	1,400.0	1,400.0	1,400.0	6.3	6.3	-91.00	-0.6	-33.0	33.0	20.5	12.53	2.635	
1,500.0	1,500.0	1,500.0	1,500.0	6.5	6.5	-91.00	-0.6	-33.0	33.0	20.0	13.03	2.534	
1,600.0	1,600.0	1,600.0	1,600.0	6.8	6.8	-91.00	-0.6	-33.0	33.0	19.5	13.52	2.443	
1,700.0	1,700.0	1,700.0	1,700.0	7.0	7.0	-91.00	-0.6	-33.0	33.0	19.0	13.99	2.360	
1,800.0	1,800.0	1,800.0	1,800.0	7.2	7.2	-91.00	-0.6	-33.0	33.0	18.6	14.45	2.285	
1,900.0	1,900.0	1,900.0	1,900.0	7.4	7.4	-91.00	-0.6	-33.0	33.0	18.1	14.90	2.216	
2,000.0	2,000.0	2,000.0	2,000.0	7.7	7.7	-91.00	-0.6	-33.0	33.0	17.7	15.34	2.152	
2,100.0	2,100.0	2,100.0	2,100.0	7.9	7.9	-91.00	-0.6	-33.0	33.0	17.2	15.77	2.094	
2,200.0	2,200.0	2,200.0	2,200.0	8.1	8.1	-91.00	-0.6	-33.0	33.0	16.8	16.19	2.039	
2,300.0	2,300.0	2,300.0	2,300.0	8.3	8.3	-91.00	-0.6	-33.0	33.0	16.4	16.61	1.988	
2,400.0	2,400.0	2,400.0	2,400.0	8.5	8.5	-91.00	-0.6	-33.0	33.0	16.0	17.02	1.940	
2,500.0	2,500.0	2,500.0	2,500.0	8.7	8.7	-91.00	-0.6	-33.0	33.0	15.6	17.42	1.896	
2,600.0	2,600.0	2,600.0	2,600.0	8.9	8.9	-91.00	-0.6	-33.0	33.0	15.2	17.81	1.854	
2,700.0	2,700.0	2,700.0	2,700.0	9.1	9.1	-91.00	-0.6	-33.0	33.0	14.8	18.20	1.814	
2,800.0	2,800.0	2,800.0	2,800.0	9.3	9.3	-91.00	-0.6	-33.0	33.0	14.4	18.59	1.776	
2,900.0	2,900.0	2,900.0	2,900.0	9.5	9.5	-91.00	-0.6	-33.0	33.0	14.1	18.96	1.741	
3,000.0	3,000.0	3,000.0	3,000.0	9.7	9.7	-91.00	-0.6	-33.0	33.0	13.7	19.34	1.707	
3,100.0	3,100.0	3,100.0	3,100.0	9.9	9.9	-91.00	-0.6	-33.0	33.0	13.3	19.71	1.675	
3,200.0	3,200.0	3,200.0	3,200.0	10.0	10.0	-91.00	-0.6	-33.0	33.0	12.9	20.07	1.645	
3,300.0	3,300.0	3,300.0	3,300.0	10.2	10.2	-91.00	-0.6	-33.0	33.0	12.6	20.44	1.616	
3,400.0	3,400.0	3,400.0	3,400.0	10.4	10.4	-91.00	-0.6	-33.0	33.0	12.2	20.79	1.588	
3,500.0	3,500.0	3,500.0	3,500.0	10.6	10.6	-91.00	-0.6	-33.0	33.0	11.9	21.15	1.561	
3,600.0	3,600.0	3,600.0	3,600.0	10.7	10.7	-91.00	-0.6	-33.0	33.0	11.5	21.50	1.536	
3,700.0	3,700.0	3,700.0	3,700.0	10.9	10.9	-91.00	-0.6	-33.0	33.0	11.2	21.85	1.511	
3,800.0	3,800.0	3,800.0	3,800.0	11.1	11.1	-91.00	-0.6	-33.0	33.0	10.8	22.19	1.488 Level 3	
3,900.0	3,900.0	3,900.0	3,900.0	11.3	11.3	-91.00	-0.6	-33.0	33.0	10.5	22.53	1.465 Level 3	
4,000.0	4,000.0	4,000.0	4,000.0	11.4	11.4	-91.00	-0.6	-33.0	33.0	10.1	22.87	1.444 Level 3	
4,100.0	4,100.0	4,100.0	4,100.0	11.6	11.6	-91.00	-0.6	-33.0	33.0	9.8	23.21	1.423 Level 3	
4,200.0	4,200.0	4,200.0	4,200.0	11.8	11.8	-91.00	-0.6	-33.0	33.0	9.5	23.54	1.403 Level 3	
4,300.0	4,300.0	4,300.0	4,300.0	11.9	11.9	-91.00	-0.6	-33.0	33.0	9.1	23.87	1.383 Level 3	
4,400.0	4,400.0	4,400.0	4,400.0	12.1	12.1	-91.00	-0.6	-33.0	33.0	8.8	24.20	1.364 Level 3	
4,500.0	4,500.0	4,500.0	4,500.0	12.3	12.3	-91.00	-0.6	-33.0	33.0	8.5	24.53	1.346 Level 3	
4,600.0	4,600.0	4,600.0	4,600.0	12.4	12.4	-91.00	-0.6	-33.0	33.0	8.2	24.85	1.329 Level 3	
4,700.0	4,700.0	4,700.0	4,700.0	12.6	12.6	-91.00	-0.6	-33.0	33.0	7.8	25.17	1.312 Level 3	
4,800.0	4,800.0	4,800.0	4,800.0	12.7	12.7	-91.00	-0.6	-33.0	33.0	7.5	25.49	1.295 Level 3	
4,900.0	4,900.0	4,900.0	4,900.0	12.9	12.9	-91.00	-0.6	-33.0	33.0	7.2	25.81	1.279 Level 3	
4,966.7	4,966.7	4,966.7	4,966.7	13.0	13.0	-91.00	-0.6	-33.0	33.0	7.0	26.02	1.269 Level 3	
5,000.0	5,000.0	5,000.0	5,000.0	13.1	13.1	-91.00	-0.6	-33.0	33.0	6.9	26.12	1.264 Level 3, CC	

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



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 501H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 501H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 501H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 501H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 701H - Anderson Fed Com 701H - Anderson Fed Com 701H - Prelim 1													Offset Site Error: 0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
				(usft)	(usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,100.0	5,100.0	5,099.5	5,099.5	13.2	13.2	-91.84	-1.1	-33.7	33.7	7.4	26.38	1.279	Level 3
5,200.0	5,200.0	5,199.0	5,198.9	13.4	13.3	-94.16	-2.6	-35.8	35.9	9.3	26.62	1.349	Level 3
5,300.0	5,300.0	5,298.4	5,298.2	13.5	13.4	29.89	-5.1	-39.3	38.9	12.1	26.80	1.452	Level 3
5,400.0	5,400.0	5,397.7	5,397.4	13.6	13.5	27.62	-8.7	-44.2	42.0	15.0	26.99	1.555	
5,500.0	5,499.9	5,496.9	5,496.3	13.7	13.6	25.70	-13.2	-50.4	45.1	17.9	27.21	1.657	
5,600.0	5,599.7	5,596.8	5,595.8	13.8	13.8	24.34	-18.5	-57.6	47.7	20.3	27.44	1.738	
5,649.9	5,649.4	5,646.7	5,645.5	13.8	13.8	24.02	-21.1	-61.2	48.4	20.9	27.56	1.757	
5,700.0	5,699.4	5,696.8	5,695.4	13.9	13.9	23.82	-23.7	-64.9	49.0	21.3	27.69	1.768	
5,800.0	5,799.1	5,796.8	5,794.9	14.0	14.1	23.42	-29.0	-72.1	50.0	22.0	28.01	1.785	
5,900.0	5,898.8	5,896.8	5,894.5	14.2	14.4	23.05	-34.3	-79.3	51.1	22.7	28.39	1.799	
6,000.0	5,998.5	5,996.8	5,994.1	14.4	14.6	22.68	-39.5	-86.6	52.1	23.3	28.79	1.810	
6,100.0	6,098.2	6,096.8	6,093.7	14.6	14.9	22.33	-44.8	-93.8	53.2	24.0	29.23	1.820	
6,200.0	6,197.8	6,196.7	6,193.3	14.8	15.1	22.00	-50.0	-101.0	54.2	24.6	29.69	1.827	
6,300.0	6,297.5	6,296.7	6,292.9	15.1	15.4	21.68	-55.3	-108.3	55.3	25.1	30.19	1.832	
6,400.0	6,397.2	6,396.7	6,392.5	15.3	15.7	21.37	-60.6	-115.5	56.4	25.7	30.71	1.836	
6,500.0	6,496.9	6,496.7	6,492.1	15.6	16.0	21.07	-65.8	-122.7	57.4	26.2	31.26	1.838	
6,600.0	6,596.6	6,596.7	6,591.7	15.9	16.4	20.78	-71.1	-130.0	58.5	26.7	31.84	1.838	
6,700.0	6,696.3	6,696.7	6,691.3	16.2	16.7	20.50	-76.3	-137.2	59.6	27.2	32.44	1.837	
6,800.0	6,796.0	6,796.7	6,790.9	16.5	17.0	20.24	-81.6	-144.4	60.7	27.6	33.06	1.835	
6,900.0	6,895.7	6,896.7	6,890.5	16.8	17.4	19.98	-86.9	-151.7	61.7	28.0	33.70	1.832	
7,000.0	6,995.4	6,996.7	6,990.1	17.1	17.8	19.73	-92.1	-158.9	62.8	28.4	34.37	1.828	
7,100.0	7,095.1	7,096.7	7,089.7	17.5	18.1	19.49	-97.4	-166.1	63.9	28.8	35.05	1.823	
7,200.0	7,194.8	7,196.7	7,189.3	17.8	18.5	19.25	-102.6	-173.4	65.0	29.2	35.76	1.817	
7,300.0	7,294.5	7,296.7	7,288.8	18.2	18.9	19.03	-107.9	-180.6	66.0	29.6	36.48	1.810	
7,400.0	7,394.1	7,396.7	7,388.4	18.5	19.3	18.81	-113.2	-187.8	67.1	29.9	37.21	1.804	
7,500.0	7,493.8	7,496.7	7,488.0	18.9	19.7	18.60	-118.4	-195.1	68.2	30.2	37.97	1.796	
7,600.0	7,593.5	7,596.7	7,587.6	19.3	20.1	18.39	-123.7	-202.3	69.3	30.5	38.74	1.789	
7,700.0	7,693.2	7,696.7	7,687.2	19.7	20.6	18.20	-128.9	-209.5	70.4	30.8	39.52	1.781	
7,800.0	7,792.9	7,796.6	7,786.8	20.1	21.0	18.00	-134.2	-216.8	71.4	31.1	40.31	1.772	
7,900.0	7,892.6	7,896.6	7,886.4	20.5	21.4	17.82	-139.5	-224.0	72.5	31.4	41.12	1.764	
8,000.0	7,992.3	7,996.6	7,986.0	20.9	21.8	17.64	-144.7	-231.2	73.6	31.7	41.94	1.755	
8,100.0	8,092.0	8,096.6	8,085.6	21.3	22.3	17.46	-150.0	-238.5	74.7	31.9	42.77	1.747	
8,200.0	8,191.7	8,196.6	8,185.2	21.7	22.7	17.29	-155.3	-245.7	75.8	32.2	43.61	1.738	
8,300.0	8,291.4	8,296.6	8,284.8	22.1	23.2	17.12	-160.5	-252.9	76.9	32.4	44.46	1.729	
8,400.0	8,391.1	8,396.6	8,384.4	22.6	23.6	16.96	-165.8	-260.2	78.0	32.6	45.32	1.720	
8,500.0	8,490.8	8,496.6	8,484.0	23.0	24.1	16.80	-171.0	-267.4	79.0	32.9	46.19	1.711	
8,600.0	8,590.4	8,596.6	8,583.6	23.4	24.6	16.65	-176.3	-274.6	80.1	33.1	47.06	1.703	
8,700.0	8,690.1	8,696.6	8,683.1	23.9	25.0	16.50	-181.6	-281.9	81.2	33.3	47.95	1.694	
8,800.0	8,789.8	8,796.6	8,782.7	24.3	25.5	16.36	-186.8	-289.1	82.3	33.5	48.84	1.685	
8,900.0	8,889.5	8,897.9	8,883.7	24.7	26.0	16.37	-191.7	-295.8	82.6	32.9	49.71	1.662	
9,000.0	8,989.2	8,999.3	8,984.9	25.2	26.4	16.72	-195.5	-301.0	81.2	30.7	50.52	1.608	
9,100.0	9,088.9	9,100.6	9,086.1	25.6	26.8	17.45	-198.2	-304.8	78.2	26.9	51.23	1.526	
9,200.0	9,188.6	9,201.8	9,187.2	26.1	27.2	18.66	-199.9	-307.1	73.4	21.6	51.83	1.417	Level 3
9,300.0	9,288.3	9,302.7	9,288.2	26.5	27.5	20.54	-200.6	-308.0	67.1	14.9	52.20	1.285	Level 3
9,400.0	9,388.0	9,402.5	9,388.0	27.0	27.5	23.18	-200.6	-308.0	59.8	7.6	52.19	1.146	Level 3
9,462.8	9,450.6	9,465.7	9,451.2	27.3	27.5	26.08	-199.7	-308.0	55.1	3.3	51.82	1.064	Level 3
9,500.0	9,487.7	9,503.1	9,488.3	27.4	27.4	31.43	-196.0	-308.0	52.2	1.5	50.67	1.030	Level 3, ES, SF
9,556.6	9,544.1	9,557.8	9,542.0	27.7	27.3	45.94	-185.4	-308.1	49.7	3.0	46.71	1.063	Level 3
9,600.0	9,587.5	9,597.6	9,580.0	27.9	27.2	60.49	-173.9	-308.2	52.1	9.6	42.45	1.226	Level 3
9,700.0	9,687.4	9,680.0	9,655.1	28.3	27.0	88.66	-140.1	-308.4	79.1	39.4	39.64	1.994	
9,800.0	9,787.3	9,750.0	9,713.5	28.7	26.8	102.93	-101.7	-308.6	129.3	86.7	42.59	3.036	
9,900.0	9,887.3	9,805.8	9,755.7	28.9	26.7	109.76	-65.1	-308.9	192.8	147.7	45.18	4.268	

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 501H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 501H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 501H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 501H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 701H - Anderson Fed Com 701H - Anderson Fed Com 701H - Prelim 1											Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM											Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Minimum	Separation	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	
9,912.7	9,900.0	9,812.2	9,760.3	29.0	26.7	-16.35	-60.6	-308.9	201.6	156.1	45.44	4.436
10,000.0	9,987.3	9,850.0	9,785.9	29.0	26.7	-13.81	-32.9	-309.1	265.0	217.9	47.09	5.627
10,010.2	9,997.5	9,856.4	9,790.0	29.0	26.6	-13.44	-28.0	-309.1	272.7	225.5	47.16	5.782
10,025.0	10,012.3	9,862.4	9,793.8	29.0	26.6	-8.25	-23.3	-309.1	283.9	236.5	47.38	5.990
10,050.0	10,037.3	9,875.0	9,801.6	29.0	26.6	-7.24	-13.4	-309.2	302.4	254.7	47.67	6.343
10,075.0	10,062.1	9,883.2	9,806.5	28.9	26.6	-6.55	-6.9	-309.2	320.4	272.2	48.11	6.659
10,100.0	10,086.8	9,893.7	9,812.6	28.9	26.6	-5.89	1.6	-309.3	337.8	289.4	48.46	6.971
10,125.0	10,111.2	9,900.0	9,816.3	28.8	26.6	-5.43	6.8	-309.3	354.8	305.9	48.94	7.251
10,150.0	10,135.3	9,914.9	9,824.5	28.7	26.6	-4.82	19.2	-309.4	371.2	322.0	49.15	7.552
10,175.0	10,159.1	9,925.0	9,829.9	28.7	26.6	-4.40	27.8	-309.5	387.0	337.5	49.51	7.817
10,200.0	10,182.4	9,936.5	9,835.7	28.6	26.6	-4.01	37.6	-309.5	402.3	352.5	49.83	8.073
10,225.0	10,205.2	9,950.0	9,842.3	28.6	26.6	-3.62	49.4	-309.6	417.0	366.9	50.10	8.323
10,250.0	10,227.4	9,958.2	9,846.2	28.5	26.6	-3.36	56.7	-309.6	431.1	380.6	50.50	8.536
10,275.0	10,249.0	9,975.0	9,853.7	28.4	26.6	-3.01	71.7	-309.7	444.6	393.9	50.71	8.769
10,300.0	10,269.9	9,975.0	9,853.7	28.4	26.6	-2.92	71.7	-309.7	457.5	406.2	51.27	8.922
10,325.0	10,290.0	9,991.2	9,860.4	28.3	26.6	-2.63	86.4	-309.8	469.7	418.2	51.49	9.121
10,350.0	10,309.4	10,000.0	9,863.8	28.3	26.6	-2.45	94.5	-309.9	481.3	429.4	51.86	9.280
10,375.0	10,327.9	10,013.3	9,868.7	28.2	26.7	-2.24	106.9	-310.0	492.2	440.1	52.14	9.440
10,400.0	10,345.4	10,025.0	9,872.8	28.2	26.7	-2.07	117.9	-310.0	502.5	450.1	52.45	9.581
10,425.0	10,362.1	10,035.6	9,876.2	28.2	26.7	-1.92	127.9	-310.1	512.2	459.4	52.78	9.705
10,450.0	10,377.7	10,050.0	9,880.5	28.2	26.7	-1.74	141.7	-310.2	521.2	468.1	53.04	9.827
10,475.0	10,392.3	10,058.0	9,882.7	28.2	26.7	-1.64	149.4	-310.2	529.5	476.1	53.40	9.916
10,500.0	10,405.8	10,075.0	9,886.9	28.2	26.8	-1.46	165.8	-310.3	537.1	483.5	53.62	10.018
10,525.0	10,418.2	10,075.0	9,886.9	28.2	26.8	-1.44	165.8	-310.3	544.1	490.0	54.07	10.063
10,550.0	10,429.5	10,091.7	9,890.5	28.2	26.8	-1.28	182.1	-310.4	550.3	496.0	54.29	10.136
10,575.0	10,439.5	10,100.0	9,892.1	28.2	26.9	-1.19	190.3	-310.5	555.8	501.2	54.61	10.178
10,600.0	10,448.4	10,114.2	9,894.5	28.3	26.9	-1.07	204.3	-310.6	560.7	505.8	54.86	10.220
10,625.0	10,456.0	10,125.0	9,896.0	28.3	26.9	-0.98	215.0	-310.7	564.8	509.7	55.14	10.243
10,650.0	10,462.3	10,136.8	9,897.4	28.4	27.0	-0.88	226.7	-310.7	568.3	512.9	55.41	10.257
10,675.0	10,467.4	10,150.0	9,898.6	28.4	27.0	-0.78	239.8	-310.8	571.0	515.4	55.65	10.261
10,700.0	10,471.2	10,159.4	9,899.2	28.5	27.1	-0.70	249.2	-310.9	573.1	517.1	55.92	10.248
10,725.0	10,473.7	10,175.0	9,899.8	28.6	27.1	-0.59	264.8	-311.0	574.4	518.3	56.14	10.232
10,750.0	10,474.9	10,182.0	9,900.0	28.7	27.2	-0.53	271.8	-311.0	575.0	518.6	56.40	10.195
10,760.2	10,475.0	10,187.1	9,900.0	28.8	27.2	-0.50	276.9	-311.0	575.0	518.5	56.48	10.181
10,760.6	10,475.0	10,187.1	9,900.0	28.8	27.2	-0.50	276.9	-311.0	575.0	518.5	56.48	10.181
10,800.0	10,475.0	10,225.8	9,900.0	29.0	27.4	-0.24	315.6	-311.3	575.0	518.3	56.66	10.148
10,847.4	10,475.0	10,273.2	9,900.0	29.3	27.7	0.00	363.0	-311.6	575.0	518.1	56.90	10.106
10,900.0	10,475.0	10,325.7	9,900.0	29.7	28.0	0.18	415.5	-311.9	575.0	517.8	57.18	10.056
10,971.4	10,475.0	10,397.2	9,900.0	30.2	28.5	0.26	486.9	-312.4	575.0	517.4	57.62	9.979
11,000.0	10,475.0	10,425.7	9,900.0	30.4	28.7	0.26	515.5	-312.6	575.0	517.2	57.82	9.945
11,100.0	10,475.0	10,525.7	9,900.0	31.2	29.5	0.26	615.5	-313.2	575.0	516.5	58.55	9.821
11,200.0	10,475.0	10,625.7	9,900.0	32.0	30.4	0.25	715.5	-313.8	575.0	515.7	59.35	9.688
11,300.0	10,475.0	10,725.7	9,900.0	33.0	31.4	0.25	815.5	-314.5	575.0	514.8	60.23	9.547
11,400.0	10,475.0	10,825.7	9,900.0	34.1	32.5	0.25	915.5	-315.1	575.0	513.8	61.17	9.400
11,500.0	10,475.0	10,925.7	9,900.0	35.2	33.7	0.24	1,015.5	-315.7	575.0	512.8	62.17	9.248
11,600.0	10,475.0	11,025.7	9,900.0	36.4	35.0	0.24	1,115.5	-316.4	575.0	511.8	63.24	9.093
11,700.0	10,475.0	11,125.7	9,900.0	37.7	36.3	0.24	1,215.5	-317.0	575.0	510.6	64.36	8.934
11,800.0	10,475.0	11,225.7	9,900.0	39.1	37.8	0.23	1,315.5	-317.7	575.0	509.5	65.53	8.774
11,900.0	10,475.0	11,325.7	9,900.0	40.5	39.2	0.23	1,415.5	-318.3	575.0	508.2	66.76	8.613
12,000.0	10,475.0	11,425.7	9,900.0	42.0	40.7	0.23	1,515.5	-318.9	575.0	507.0	68.04	8.451
12,100.0	10,475.0	11,525.7	9,900.0	43.5	42.3	0.22	1,615.5	-319.6	575.0	505.6	69.36	8.290
12,200.0	10,475.0	11,625.7	9,900.0	45.0	43.9	0.22	1,715.5	-320.2	575.0	504.3	70.72	8.130

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 501H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 501H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 501H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 501H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 701H - Anderson Fed Com 701H - Anderson Fed Com 701H - Prelim 1											Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM											Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Rule Assigned:	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
12,300.0	10,475.0	11,725.7	9,900.0	46.6	45.5	0.22	1,815.5	-320.8	575.0	502.9	72.13	7.972
12,400.0	10,475.0	11,825.7	9,900.0	48.3	47.2	0.21	1,915.5	-321.5	575.0	501.4	73.57	7.816
12,500.0	10,475.0	11,925.7	9,900.0	49.9	48.9	0.21	2,015.5	-322.1	575.0	500.0	75.05	7.662
12,600.0	10,475.0	12,025.7	9,900.0	51.6	50.6	0.21	2,115.5	-322.7	575.0	498.4	76.56	7.510
12,700.0	10,475.0	12,125.7	9,900.0	53.3	52.4	0.20	2,215.5	-323.4	575.0	496.9	78.11	7.361
12,800.0	10,475.0	12,225.7	9,900.0	55.1	54.1	0.20	2,315.5	-324.0	575.0	495.3	79.69	7.216
12,900.0	10,475.0	12,325.7	9,900.0	56.8	55.9	0.20	2,415.5	-324.6	575.0	493.7	81.29	7.073
13,000.0	10,475.0	12,425.7	9,900.0	58.6	57.7	0.19	2,515.5	-325.3	575.0	492.1	82.92	6.934
13,100.0	10,475.0	12,525.7	9,900.0	60.4	59.5	0.19	2,615.5	-325.9	575.0	490.4	84.58	6.798
13,200.0	10,475.0	12,625.7	9,900.0	62.2	61.3	0.18	2,715.5	-326.6	575.0	488.7	86.26	6.666
13,300.0	10,475.0	12,725.7	9,900.0	64.0	63.2	0.18	2,815.5	-327.2	575.0	487.0	87.96	6.537
13,400.0	10,475.0	12,825.7	9,900.0	65.8	65.0	0.18	2,915.5	-327.8	575.0	485.3	89.69	6.411
13,500.0	10,475.0	12,925.7	9,900.0	67.6	66.9	0.17	3,015.5	-328.5	575.0	483.6	91.43	6.289
13,600.0	10,475.0	13,025.7	9,900.0	69.5	68.7	0.17	3,115.5	-329.1	575.0	481.8	93.20	6.170
13,700.0	10,475.0	13,125.7	9,900.0	71.3	70.6	0.17	3,215.5	-329.7	575.0	480.0	94.98	6.054
13,800.0	10,475.0	13,225.7	9,900.0	73.2	72.5	0.16	3,315.5	-330.4	575.0	478.2	96.78	5.942
13,900.0	10,475.0	13,325.7	9,900.0	75.1	74.4	0.16	3,415.5	-331.0	575.0	476.4	98.59	5.832
14,000.0	10,475.0	13,425.7	9,900.0	77.0	76.3	0.16	3,515.5	-331.6	575.0	474.6	100.42	5.726
14,100.0	10,475.0	13,525.7	9,900.0	78.9	78.2	0.15	3,615.5	-332.3	575.0	472.7	102.26	5.623
14,200.0	10,475.0	13,625.7	9,900.0	80.7	80.1	0.15	3,715.5	-332.9	575.0	470.9	104.12	5.523
14,300.0	10,475.0	13,725.7	9,900.0	82.6	82.0	0.15	3,815.5	-333.5	575.0	469.0	105.99	5.425
14,400.0	10,475.0	13,825.7	9,900.0	84.6	83.9	0.14	3,915.4	-334.2	575.0	467.1	107.87	5.331
14,500.0	10,475.0	13,925.7	9,900.0	86.5	85.8	0.14	4,015.4	-334.8	575.0	465.2	109.76	5.239
14,600.0	10,475.0	14,025.7	9,900.0	88.4	87.8	0.14	4,115.4	-335.5	575.0	463.3	111.67	5.149
14,700.0	10,475.0	14,125.7	9,900.0	90.3	89.7	0.13	4,215.4	-336.1	575.0	461.4	113.58	5.063
14,800.0	10,475.0	14,225.7	9,900.0	92.2	91.6	0.13	4,315.4	-336.7	575.0	459.5	115.50	4.978
14,900.0	10,475.0	14,325.7	9,900.0	94.2	93.6	0.13	4,415.4	-337.4	575.0	457.6	117.44	4.896
15,000.0	10,475.0	14,425.7	9,900.0	96.1	95.5	0.12	4,515.4	-338.0	575.0	455.6	119.38	4.817
15,100.0	10,475.0	14,525.7	9,900.0	98.0	97.5	0.12	4,615.4	-338.6	575.0	453.7	121.33	4.739
15,200.0	10,475.0	14,625.7	9,900.0	100.0	99.4	0.11	4,715.4	-339.3	575.0	451.7	123.29	4.664
15,300.0	10,475.0	14,725.7	9,900.0	101.9	101.4	0.11	4,815.4	-339.9	575.0	449.7	125.26	4.591
15,400.0	10,475.0	14,825.7	9,900.0	103.9	103.3	0.11	4,915.4	-340.5	575.0	447.8	127.23	4.519
15,500.0	10,475.0	14,925.7	9,900.0	105.8	105.3	0.10	5,015.4	-341.2	575.0	445.8	129.21	4.450
15,600.0	10,475.0	15,025.7	9,900.0	107.8	107.2	0.10	5,115.4	-341.8	575.0	443.8	131.20	4.383
15,700.0	10,475.0	15,125.7	9,900.0	109.7	109.2	0.10	5,215.4	-342.4	575.0	441.8	133.19	4.317
15,800.0	10,475.0	15,225.7	9,900.0	111.7	111.2	0.09	5,315.4	-343.1	575.0	439.8	135.19	4.253
15,900.0	10,475.0	15,325.7	9,900.0	113.6	113.1	0.09	5,415.4	-343.7	575.0	437.8	137.20	4.191
16,000.0	10,475.0	15,425.7	9,900.0	115.6	115.1	0.09	5,515.4	-344.4	575.0	435.8	139.21	4.130
16,100.0	10,475.0	15,525.7	9,900.0	117.5	117.1	0.08	5,615.4	-345.0	575.0	433.8	141.23	4.071
16,200.0	10,475.0	15,625.7	9,900.0	119.5	119.0	0.08	5,715.4	-345.6	575.0	431.8	143.25	4.014
16,300.0	10,475.0	15,725.7	9,900.0	121.5	121.0	0.08	5,815.4	-346.3	575.0	429.7	145.28	3.958
16,400.0	10,475.0	15,825.7	9,900.0	123.4	123.0	0.07	5,915.4	-346.9	575.0	427.7	147.31	3.903
16,500.0	10,475.0	15,925.7	9,900.0	125.4	124.9	0.07	6,015.4	-347.5	575.0	425.7	149.35	3.850
16,600.0	10,475.0	16,025.7	9,900.0	127.4	126.9	0.07	6,115.4	-348.2	575.0	423.6	151.39	3.798
16,700.0	10,475.0	16,125.7	9,900.0	129.3	128.9	0.06	6,215.4	-348.8	575.0	421.6	153.43	3.748
16,800.0	10,475.0	16,225.7	9,900.0	131.3	130.9	0.06	6,315.4	-349.4	575.0	419.5	155.48	3.698
16,900.0	10,475.0	16,325.7	9,900.0	133.3	132.9	0.06	6,415.4	-350.1	575.0	417.5	157.53	3.650
17,000.0	10,475.0	16,425.7	9,900.0	135.3	134.8	0.05	6,515.4	-350.7	575.0	415.4	159.59	3.603
17,100.0	10,475.0	16,525.7	9,900.0	137.2	136.8	0.05	6,615.4	-351.3	575.0	413.4	161.65	3.557
17,200.0	10,475.0	16,625.7	9,900.0	139.2	138.8	0.04	6,715.4	-352.0	575.0	411.3	163.71	3.512
17,300.0	10,475.0	16,725.7	9,900.0	141.2	140.8	0.04	6,815.4	-352.6	575.0	409.2	165.78	3.468
17,400.0	10,475.0	16,825.7	9,900.0	143.2	142.8	0.04	6,915.4	-353.3	575.0	407.2	167.85	3.426

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



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 501H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 501H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 501H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 501H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad D - Anderson Fed Com 701H - Anderson Fed Com 701H - Anderson Fed Com 701H - Prelim 1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
17,500.0	10,475.0	16,925.7	9,900.0	145.2	144.7	0.03	7,015.4	-353.9	575.0	405.1	169.92	3.384		
17,600.0	10,475.0	17,025.7	9,900.0	147.1	146.7	0.03	7,115.4	-354.5	575.0	403.0	172.00	3.343		
17,700.0	10,475.0	17,125.7	9,900.0	149.1	148.7	0.03	7,215.4	-355.2	575.0	400.9	174.07	3.303		
17,800.0	10,475.0	17,225.7	9,900.0	151.1	150.7	0.02	7,315.4	-355.8	575.0	398.8	176.16	3.264		
17,900.0	10,475.0	17,325.7	9,900.0	153.1	152.7	0.02	7,415.4	-356.4	575.0	396.8	178.24	3.226		
18,000.0	10,475.0	17,425.7	9,900.0	155.1	154.7	0.02	7,515.4	-357.1	575.0	394.7	180.33	3.189		
18,100.0	10,475.0	17,525.7	9,900.0	157.1	156.7	0.01	7,615.4	-357.7	575.0	392.6	182.42	3.152		
18,200.0	10,475.0	17,625.7	9,900.0	159.0	158.7	0.01	7,715.4	-358.3	575.0	390.5	184.51	3.116		
18,300.0	10,475.0	17,725.7	9,900.0	161.0	160.7	0.01	7,815.4	-359.0	575.0	388.4	186.60	3.081		
18,400.0	10,475.0	17,825.7	9,900.0	163.0	162.6	0.00	7,915.4	-359.6	575.0	386.3	188.70	3.047		
18,484.9	10,475.0	17,910.6	9,900.0	164.7	164.3	0.00	8,000.3	-360.1	575.0	384.5	190.48	3.019		

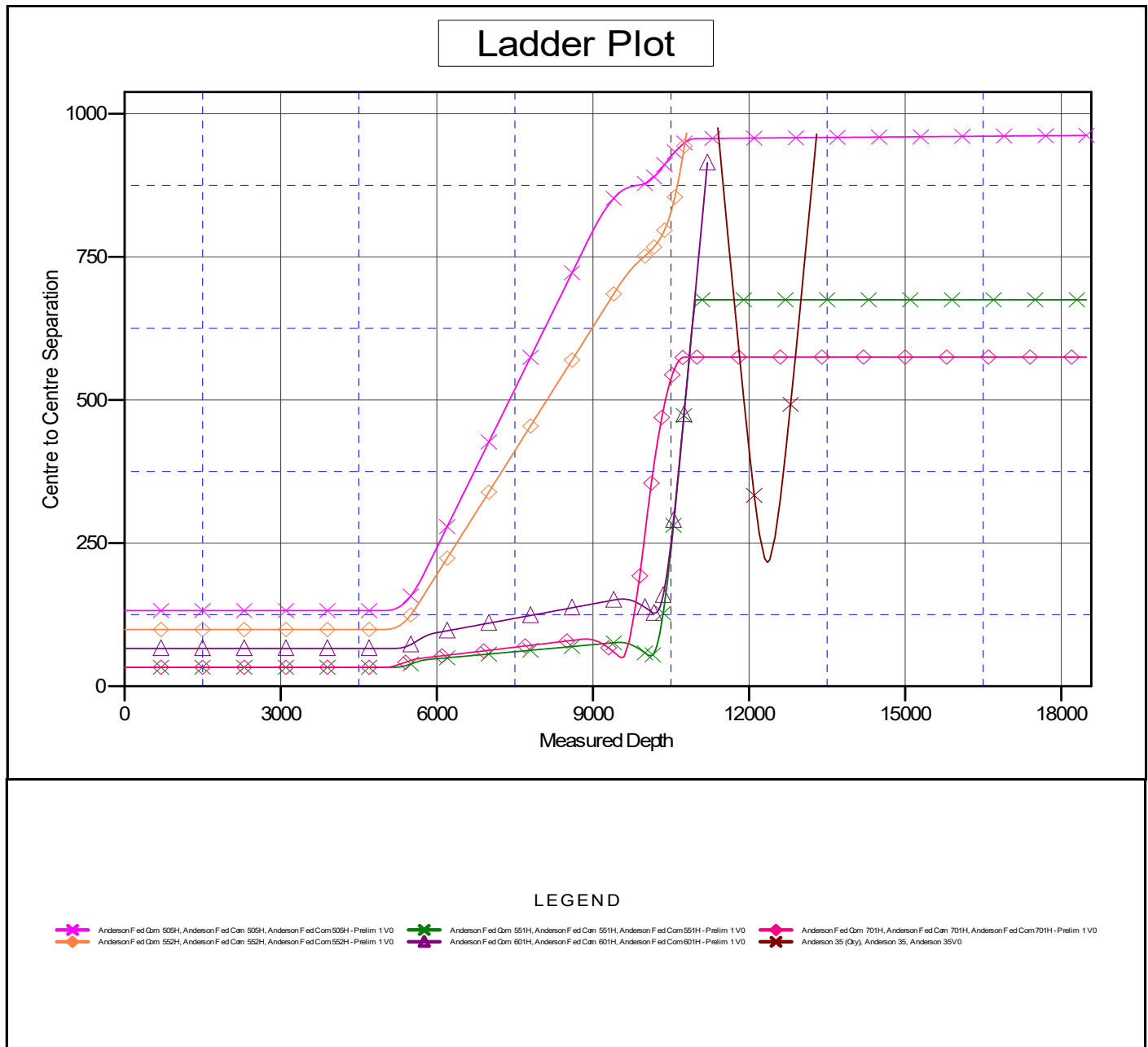


Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 501H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 501H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 501H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 501H - Prelim 1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 3724.5usft (Original Well Ele)
 Offset Depths are relative to Offset Datum
 Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Anderson Fed Com 501H
 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 501H
Project:	Hat Mesa	TVD Reference:	WELL @ 3724.5usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad D	MD Reference:	WELL @ 3724.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 501H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 501H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 501H - Prelim 1	Offset TVD Reference:	Offset Datum

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

Offset Depths are relative to Offset Datum

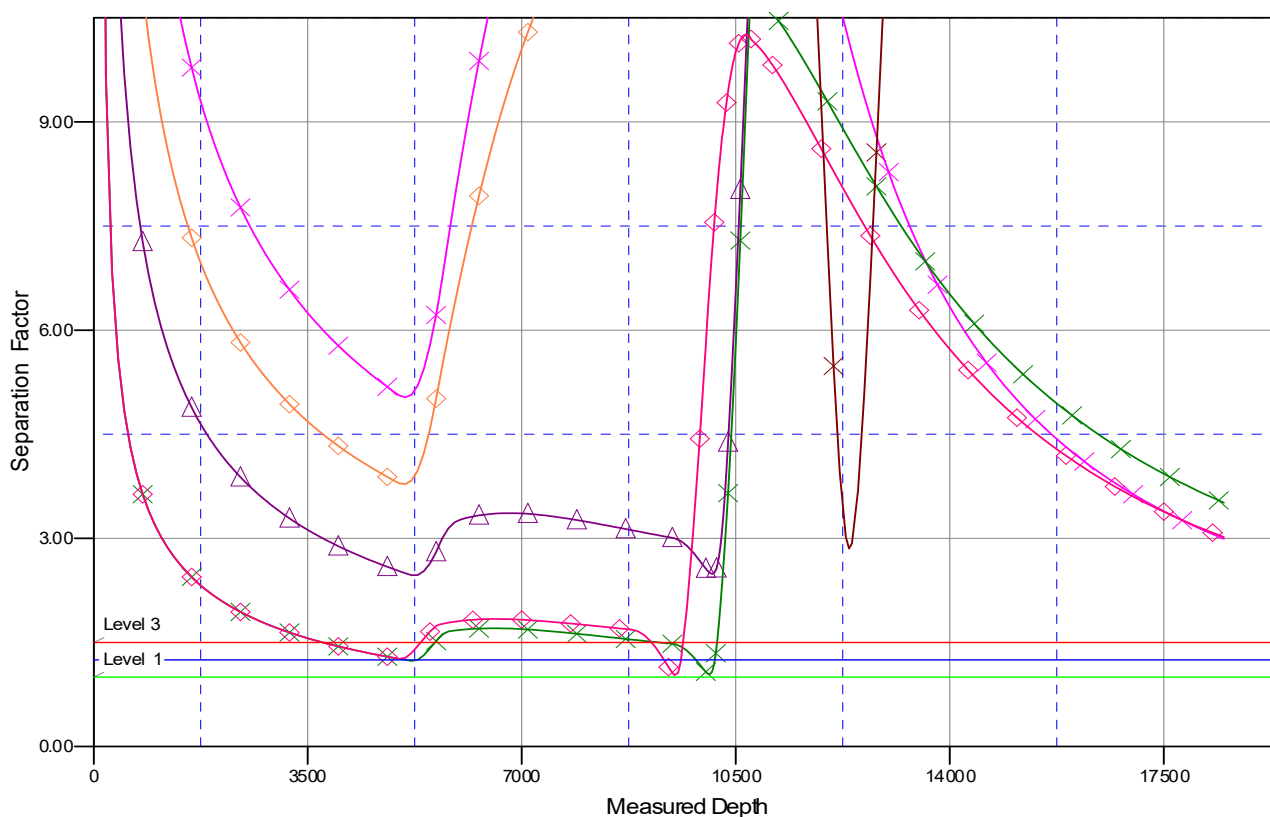
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Anderson Fed Com 501H

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 509H, Anderson Fed Com 509H, Anderson Fed Com 509H - Prelim 1 V0
 ✕ Anderson Fed Com 551H, Anderson Fed Com 551H, Anderson Fed Com 551H - Prelim 1 V0
 ✕ Anderson Fed Com 701H, Anderson Fed Com 701H, Anderson Fed Com 701H - Prelim 1 V0
✕ Anderson Fed Com 552H, Anderson Fed Com 552H, Anderson Fed Com 552H - Prelim 1 V0
 ✕ Anderson Fed Com 601H, Anderson Fed Com 601H, Anderson Fed Com 601H - Prelim 1 V0
 ✕ Anderson 35 (Qry), Anderson 35, Anderson 35 V0

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: Advance Energy Partners Hat Mesa, LLC **OGRID:** 372417 **Date:** October 14, 2021

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Anderson Fed Com 501H		Lot 4-Sec 2 22S 32E	180 FNL & 644 FWL	1280	1500	3200
Anderson Fed Com 505H		Lot 4-Sec 2 22S-32E	180 FNL & 776 FWL	1280	1500	3200
Anderson Fed Com 552H		Lot 4-Sec 2 22S 32E	180 FNL & 743 FWL	1280	1500	3200
Anderson Fed Com 601H		Lot 4-Sec 2 22S 32E	180 FNL & 710 FWL	1280	1500	3200
Anderson Fed Com 701H		Lot 4-Sec 2 22S-32E	180 FNL & 776 FWL	1280	1500	3200

IV. Central Delivery Point Name: Anderson Pad D [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Anderson Fed Com 501H		11/17/21	01/26/22	03/03/22	04/01/22	06/01/22
Anderson Fed Com 505H		11/17/21	1/24/22	02/28/22	04/01/22	06/01/22
Anderson Fed Com 552H		11/19/21	01/19/2022	02/28/22		
Anderson Fed Com 601H		11/20/21	01/22/22	02/28/22	04/01/22	06/01/22
Anderson Fed Com 701H		11/18.21	1/15/22	02/28/22	04/01/22	06/01/22

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan **EFFECTIVE APRIL 1, 2022**

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☐ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

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

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: 
Printed Name: Cory Walk
Title: Consultant
E-mail Address: cory@permitswest.com
Date: 10/14/21
Phone: (505) 466-8120
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

Natural Gas Management Plan - Attachment

- VI. Separation equipment will be sized by construction engineering staff based on stated manufacturer daily throughput capacities and anticipated daily production rates to ensure adequate capacity. Closed vent system piping, compression needs, and VRUs will be sized utilizing ProMax modelling software to ensure adequate capacity for anticipated production volumes and conditions.
- VII. Advance Energy Partners Hat Mesa, LLC (AEP) will take the following actions to comply with the regulations listed in 19.15.27.8:
- A. AEP will maximize the recovery of natural gas by minimizing the waste, as defined by 19.15.2 NMAC, of natural gas through venting and flaring. AEP will ensure that well(s) will be connected to a natural gas gathering system with sufficient capacity to transport natural gas. If there is no adequate takeaway for the gas, well(s) will be shut in until the natural gas gathering system is available.
 - B. All drilling operations will be equipped with a rig flare located at least 100' from the nearest surface hole. Rig flare will be utilized to combust any natural gas that is brought to surface during normal drilling operations. In the case of emergency venting or flaring the volumes will be estimated and reported appropriately.
 - C. During completion operations any natural gas brought to surface will be flared. Immediately following the finish of completion operations, all well flowback will be directed to permanent separation equipment. Produced natural gas from separation equipment will be sent to sales. It is not anticipated that gas will not meet pipeline standards. However, if natural gas does not meet gathering pipeline quality specifications, AEP will flare the natural gas for 60 days or until the natural gas meets the pipeline quality specifications, whichever is sooner. AEP will ensure that the flare is sized properly and is equipped with automatic igniter or continuous pilot. The gas sample will be analyzed twice per week and the gas will be routed into a gathering system as soon as pipeline specifications are met.
 - D. Natural gas will not be flared with the exceptions and provisions listed in the 19.15.27.8 D.(1) through (4). If there is no adequate takeaway for the separator gas, well(s) will be shut in until the natural gas gathering system is available with exception of emergency or malfunction situations. Venting and/or flaring volumes will be estimated and reported appropriately.
 - E. AEP will comply with the performance standards requirements and provisions listed in 19.15.27.8 E.(1) through (8). All equipment will be designed and sized to handle maximum anticipated pressures and throughputs to minimize the waste. Production storage tanks constructed after May 25, 2021, will be equipped with automatic gauging system. Flares constructed after May 25, 2021, will be equipped with automatic igniter or continuous pilot. Flares will be located at least 100' from the well and storage tanks unless otherwise approved by the division. AEP will conduct AVO inspections as described in 19.15.27.8 E (5) (a) with frequencies specified in 19.15.27.8 E (5) (b) and (c). All emergencies will be resolved as quickly and safely as feasible to minimize waste.
 - F. The volume of natural gas that is vented or flared as the result of malfunction or emergency during drilling and completions operations will be estimated. The volume of natural gas that is vented, flared, or beneficially used during production operations, will be measured, or estimated. AEP will install equipment to measure

the volume of natural gas flared from existing process piping, or a flowline piped from equipment such as high-pressure separators, heater treaters, or vapor recovery units associated with a well or facility associated with a well authorized by an APD issued after May 25, 2021, that has an average daily production greater than 60 Mcf/day. If metering is not practicable due to circumstances such as low flow rate or low pressure venting and flaring, AEP will estimate the volume of vented or flared natural gas. Measuring equipment will conform to industry standards and will not be designed or equipped with a manifold that allows the diversion of natural gas around the metering element except for the sole purpose of inspecting and servicing the measurement equipment.

- VIII. For maintenance activities involving production equipment and compression, venting will be limited to the depressurization of the subject equipment to ensure safe working conditions. For maintenance of production and compression equipment the associated producing wells will be shut in to eliminate venting. For maintenance of VRUs all gas normally routed to the VRU will be routed to flare to eliminate venting.

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

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

CONDITIONS

Action 56040

CONDITIONS

Operator: ADVANCE ENERGY PARTNERS HAT MESA, LLC 11490 Westheimer Rd., Ste 950 Houston, TX 77077	OGRID: 372417
	Action Number: 56040
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

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