

Well Name: ANDERSON FED COM	Well Location: T22S / R32E / SEC 2 / LOT 2 /	County or Parish/State:
Well Number: 556H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM120905	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002549000	Well Status: Approved Application for Permit to Drill	Operator: ADVANCE ENERGY PARTNERS HAT MESA LLC

Notice of Intent

Type of Submission: Notice of Intent	Type of Action Other
Date Sundry Submitted: 08/05/2021	Time Sundry Submitted: 12:42
Date proposed operation will begin: 08/13/2021	

Procedure Description: Request to move Surface Hole Location from 180' FNL & 2314' FEL, Section 2, T-22-S, R-32-E, Lot 2 to 180' FNL & 2347' FEL, Section 2, T-22-S, R-32-E, Lot 2 and Bottom Hole Location from 1220' FSL & 1650' FEL, Section 26, T-21-S, R-32-E, SWSE to 1220' FSL & 2178' FEL, Section 26, T-21-S, R-32-E, SWSE. Please see attached drill plan, directional plan, and plats for detailed information regarding changes to casing, cement, and mud programs.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

Anderson_556H_SHL_BHL_etc_Sundry_Attachment_20210805124147.pdf

Well Name: ANDERSON FED COM	Well Location: T22S / R32E / SEC 2 / LOT 2 /	County or Parish/State:
Well Number: 556H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM120905	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002549000	Well Status: Approved Application for Permit to Drill	Operator: ADVANCE ENERGY PARTNERS HAT MESA LLC

Conditions of Approval

Additional Reviews

Anderson_Fed_Com_556H_Dr_COA_Sundry_ID_2627402_20210806102745.pdf

Operator Certification

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

Operator Electronic Signature: BRIAN WOOD	Signed on: AUG 05, 2021 12:41 PM
Name: ADVANCE ENERGY PARTNERS HAT MESA LLC	
Title: President	
Street Address: 37 VERANO LOOP	
City: SANTA FE	State: NM
Phone: (505) 466-8120	
Email address: AFMSS@PERMITSWEST.COM	

Field Representative

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

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5752342234	BLM POC Email Address: cwalls@blm.gov
Disposition: Approved	Disposition Date: 08/06/2021
Signature: Chris Walls	

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-49000	Pool Code 51683	Pool Name Red Tank; Bone Spring
Property Code	Property Name ANDERSON FED COM	Well Number 556H
OGRID No. 372417	Operator Name ADVANCE ENERGY PARTNERS HAT MESA, LLC	Elevation 3666'

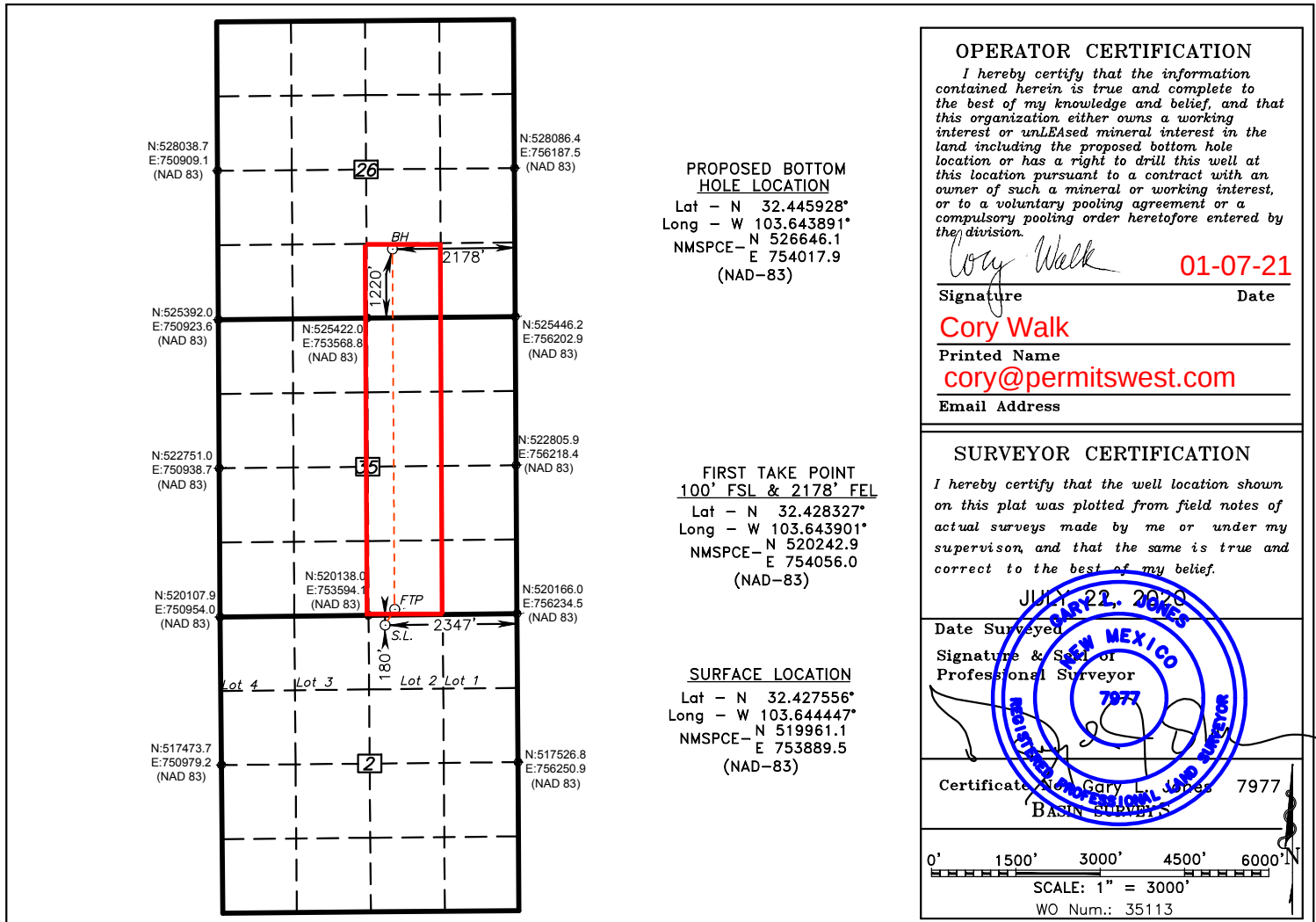
Surface Location

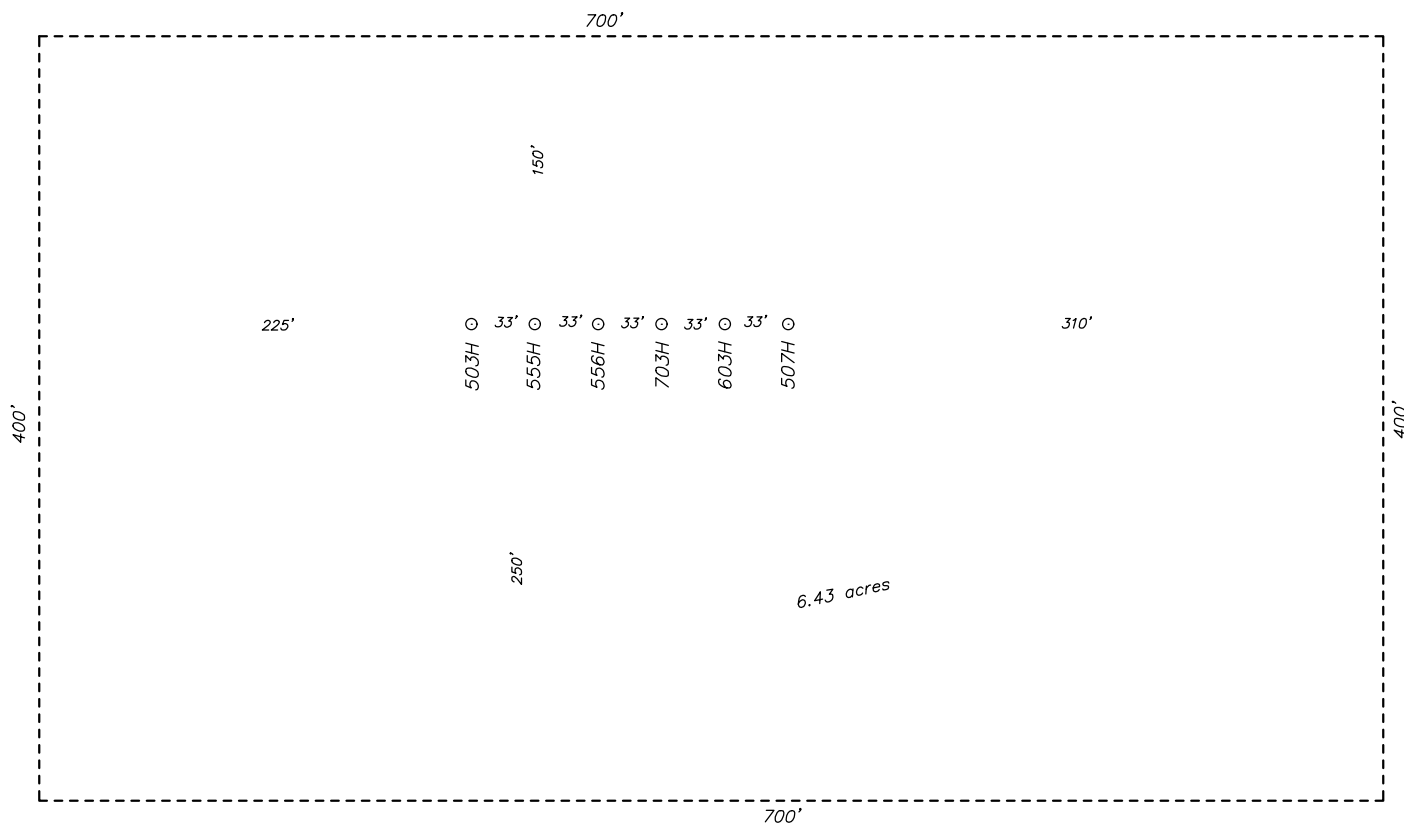
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	SOUTH/South line	Feet from the	East/West line	County
LOT 2	2	22 S	32 E		180	NORTH	2347	EAST	LEA

Bottom Hole Location If Different From Surface

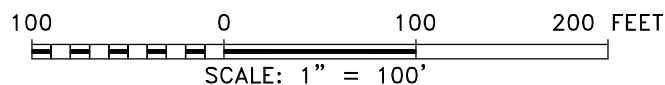
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	SOUTH/South line	Feet from the	East/West line	County
O	26	21 S	32 E		1220	SOUTH	2178	EAST	LEA
Dedicated Acres 200	Joint or Infill	Consolidation Code C	Order No.						

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





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



ADVANCE ENERGY PARTNERS HAT MESA, LLC

REF: ANDERSON FED COM 503H / WELL PAD TOPO

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

W.O. Number: 35113	Drawn By: K. GOAD	Date: 07-23-2020	Survey Date: 07-22-2020	Sheet 1 of 1 Sheets
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CHANGE TO PLANS

Move Surface Hole Location

From: 180' FNL & 2314' FEL, Section 2, T-22-S, R-32-E, Lot 2

To: 180' FNL & 2347' FEL, Section 2, T-22-S, R-32-E, Lot 2

Move First Take Point

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

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

Move Bottom Hole Location

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

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

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

Advance Energy Partners Hat Mesa, LLC
 Anderson Fed Com 556H
 SHL 180' FNL & 2347' FEL Sec. 2, T. 22 S., R. 32 E.
 BHL 1220' FSL & 2178' FEL Sec. 26, T 21 S., R. 32 E.
 Lea County, NM

DRILL PLAN PAGE 1

Drilling Program

1. ESTIMATED TOPS

Formation	TVD	MD	Bearing
Quaternary caliche	000'	000'	water
Rustler anhydrite (surf csg set @ 1218')	1193'	1193'	N/A
Top salt	1400'	1400'	N/A
Tansil limestone (int csg set @ 4721')	3280'	3280'	N/A
Bell Canyon limestone	4771'	4771'	hydrocarbons
Cherry Canyon sandstone	5680'	5680'	hydrocarbons
Lower Brushy Canyon sandstone	8419'	8423'	hydrocarbons
Avalon shale	8938'	8943'	hydrocarbons
1 st Bone Spring sandstone	9805'	9811'	hydrocarbons
2 nd Bone Spring sandstone	10403'	10410'	hydrocarbons
(KOP	10923'	10931'	hydrocarbons)
3 rd Bone Spring carbonate	10971'	11019'	hydrocarbons
TD	11400'	18090'	hydrocarbons

2. NOTABLE ZONES

Third Bone is the goal. Closest water well (CP 01701 POD 1) is 0.64-mile northwest. Water bearing strata were reported at 560' in this 840' deep well.

3. PRESSURE CONTROL

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

Advance Energy Partners Hat Mesa, LLC

DRILL PLAN PAGE 2

Anderson Fed Com 556H

SHL 180' FNL & 2347' FEL Sec. 2, T. 22 S., R. 32 E.

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

Lea County, NM

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

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

4. CASING & CEMENT

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

Hole OD	Set MD	Set TVD	Casing O. D.	Weight (lb/ft)	Grade	Joint	Collapse	Burst	Tension
17.5"	0' - 1218'	0' - 1218'	Surface 13.375"	54.5	J-55	BTC	1.125	1.125	1.6
12.25"	0' - 4000'	0' - 4000'	Intermed. 9.625"	40	J-55	LTC	1.125	1.125	1.6
12.25"	4000' - 4721'	4000' - 4721'	Intermed. 9.625"	40	HCL-80	LTC	1.125	1.125	1.6
8.5"	0' - 18090'	0' - 11400'	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 556H
 SHL 180' FNL & 2347' FEL Sec. 2, T. 22 S., R. 32 E.
 BHL 1220' FSL & 2178' FEL Sec. 26, T 21 S., R. 32 E.
 Lea County, NM

DRILL PLAN PAGE 3

Name	Type	Top MD	Sacks	Yield	Cu. Ft	Weight	Excess	Cement	Additives
Surface	Lead	0	505	1.9	960	12.8	50%	B Poz + C	6% Gel + 5% SALT + 0.25PPS Pol-E-Flake + 0.005GPS NoFoam V1A
	Tail	918	215	1.35	290	14.8	20%	C	2% CaCl ₂ + 0.005GPS NoFoam V1A
1st Intermediate (stage 1)	Lead	2800	1380	1.84	2539	12.8	727%	B Poz + C	2% Gel + 5% SALT + 0.15% R-1300 + 0.25PPS Pol-E-Flake + 0.005GPS NoFoam V1A
	Tail	3776	310	1.21	375	15.6	20%	C	5% SALT + 0.005GPS NoFoam V1A
1st Intermediate (stage 2)	Lead	0	460	3.00	1380	11	153%	ProLite	5PPS Plexcrete STE + 2% SMS + 0.05% SuspendaCem 6302 + 0.5% C-47B + 3PPS Gilsonite + 0.005GPS NoFoam V1A
	Tail	2395	100	1.33	133	14.8	0%	C	0.005GPS NoFoam V1A
Production	Lead	0	995	3.39	3373	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	10931	1630	1.22	1989	14.5	20%	B Poz + H	5% SALT + 0.65% C-20 + 0.5% C-47B + 0.005GPS NoFoam V1A

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

5. MUD PROGRAM

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

Advance Energy Partners Hat Mesa, LLC

DRILL PLAN PAGE 4

Anderson Fed Com 556H

SHL 180' FNL & 2347' FEL Sec. 2, T. 22 S., R. 32 E.

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

Lea County, NM

Type	Interval (MD)	lb/gal	Viscosity	Fluid Loss ml/30 mins
fresh water	0' - 1218'	8.4 - 10.0	28 - 36	N/C
Brine	1218' - 4721'	10.0 - 10.5	28 - 32	N/C
Cut Brine	4721' - 11681'	9.2 - 9.5	28 - 30	N/C
OBM	11681' - 18090'	9.5 - 9.8	55 - 65	<8

6. CORES, TESTS, & LOGS

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

7. DOWN HOLE CONDITIONS

No abnormal pressure or temperature is expected. Maximum expected bottom hole pressure is ≈ 5586 psi. Expected bottom hole temperature is $\approx 236^\circ$ F.

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

8. OTHER INFORMATION

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

**WELL DETAILS: Anderson Fed Com 556H**

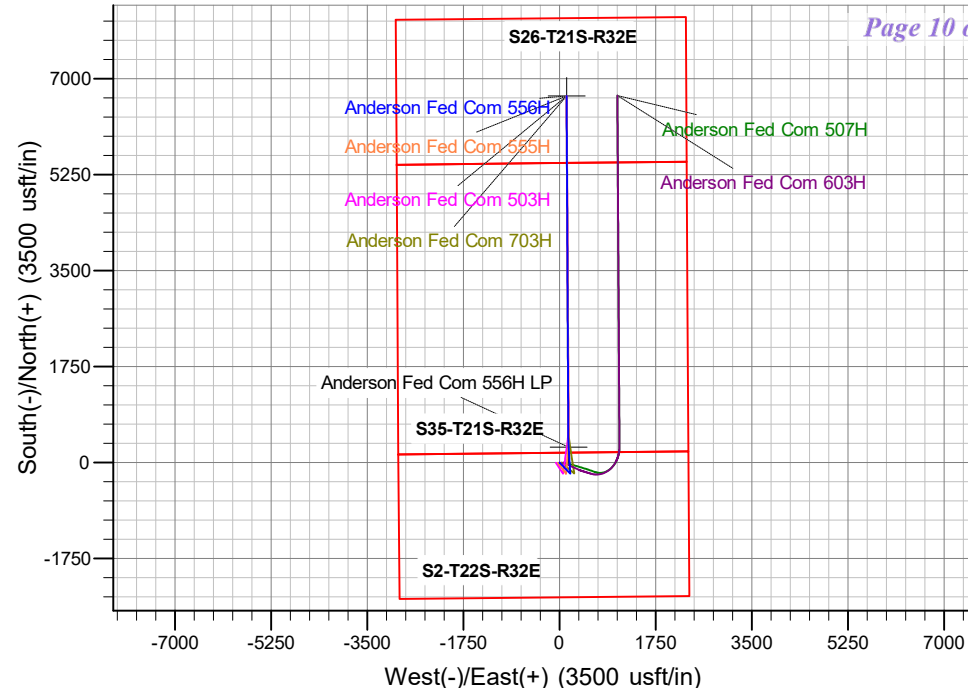
Ground Elev: 3666.0 KB: 3698.5

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	519961.23	753889.34	32° 25' 39.202 N	103° 38' 40.009 W

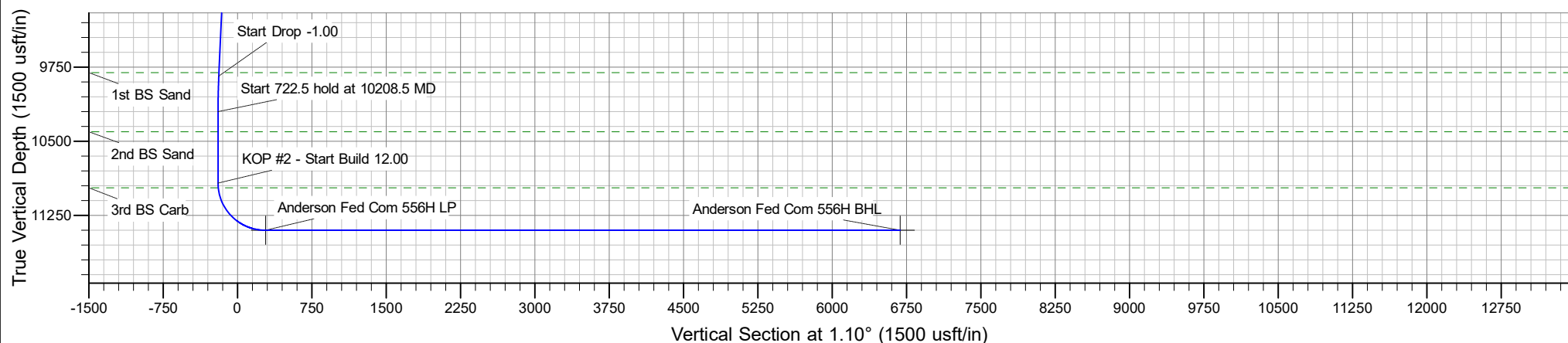
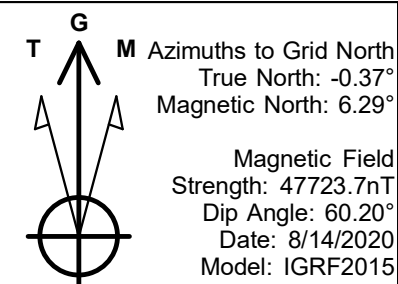
PROJECT DETAILS: Hat Mesa

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

System Datum: Mean Sea Level

**SECTION DETAILS**

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	5400.0	0.00	0.00	5400.0	0.0	0.0	0.00	0.00	0.0	KOP - Start Build 1.00
3	5760.0	3.60	135.73	5759.8	-8.1	7.9	1.00	135.73	-7.9	Start 4088.6 hold at 5760.0 MD
4	9848.5	3.60	135.73	9840.2	-191.9	187.1	0.00	0.00	-188.3	Start Drop -1.00
5	10208.5	0.00	0.00	10200.0	-200.0	195.0	1.00	180.00	-196.2	Start 722.5 hold at 10208.5 MD
6	10931.1	0.00	0.00	10922.5	-200.0	195.0	0.00	0.00	-196.2	KOP #2 - Start Build 12.00
7	11681.1	90.00	356.44	11400.0	276.5	165.3	12.00	356.44	279.7	LP - Start 5.0 hold at 11681.1 MD
8	11686.1	90.00	356.44	11400.0	281.6	165.0	0.00	0.00	284.7	Start DLS 2.00 TFO 90.00
9	11850.1	90.00	359.71	11400.0	445.4	159.5	2.00	90.00	448.4	Start 6239.6 hold at 11850.1 MD
10	18089.7	90.00	359.71	11400.0	6684.9	128.4	0.00	0.00	6686.2	TD at 18089.7





Advance Energy Partners

Hat Mesa

Anderson Fed Com - Pad B

Anderson Fed Com 556H

Anderson Fed Com 556H

Plan: Anderson Fed Com 556H - Prelim 1

Standard Planning Report

16 June, 2021



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Anderson Fed Com 556H
Company:	Advance Energy Partners	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site:	Anderson Fed Com - Pad B	North Reference:	Grid
Well:	Anderson Fed Com 556H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 556H		
Design:	Anderson Fed Com 556H - Prelim 1		

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

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

Well	Anderson Fed Com 556H					
Well Position	+N/-S	0.0 usft	Northing:	519,961.23 usft	Latitude:	32° 25' 39.202 N
	+E/-W	0.0 usft	Easting:	753,889.34 usft	Longitude:	103° 38' 40.009 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,666.0 usft
Grid Convergence:		0.37 °				

Wellbore	Anderson Fed Com 556H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	8/14/2020	6.66	60.20	47,723.72941895

Design	Anderson Fed Com 556H - Prelim 1				
Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	1.10	

Plan Survey Tool Program	Date	6/16/2021			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	18,089.6	Anderson Fed Com 556H - Prelim	MWD+HRGM	
				OWSG MWD + HRGM	



Planning Report

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Company:	Advance Energy Partners	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site:	Anderson Fed Com - Pad B	North Reference:	Grid
Well:	Anderson Fed Com 556H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 556H		
Design:	Anderson Fed Com 556H - 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	
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,760.0	3.60	135.73	5,759.8	-8.1	7.9	1.00	1.00	0.00	135.73	
9,848.5	3.60	135.73	9,840.2	-191.9	187.1	0.00	0.00	0.00	0.00	
10,208.5	0.00	0.00	10,200.0	-200.0	195.0	1.00	-1.00	0.00	180.00	
10,931.1	0.00	0.00	10,922.5	-200.0	195.0	0.00	0.00	0.00	0.00	
11,681.1	90.00	356.44	11,400.0	276.5	165.3	12.00	12.00	0.00	356.44	
11,686.1	90.00	356.44	11,400.0	281.6	165.0	0.00	0.00	0.00	0.00	Anderson Fed Com 5
11,850.1	90.00	359.71	11,400.0	445.4	159.5	2.00	0.00	2.00	90.00	
18,089.7	90.00	359.71	11,400.0	6,684.9	128.4	0.00	0.00	0.00	0.00	Anderson Fed Com 5



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Anderson Fed Com 556H
Company:	Advance Energy Partners	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site:	Anderson Fed Com - Pad B	North Reference:	Grid
Well:	Anderson Fed Com 556H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 556H		
Design:	Anderson Fed Com 556H - Prelim 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,193.0	0.00	0.00	1,193.0	0.0	0.0	0.0	0.00	0.00	0.00
Rustler									
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,771.0	0.00	0.00	4,771.0	0.0	0.0	0.0	0.00	0.00	0.00
Base of Limestone									
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Anderson Fed Com 556H
Company:	Advance Energy Partners	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site:	Anderson Fed Com - Pad B	North Reference:	Grid
Well:	Anderson Fed Com 556H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 556H		
Design:	Anderson Fed Com 556H - 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
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP - Start Build 1.00									
5,500.0	1.00	135.73	5,500.0	-0.6	0.6	-0.6	1.00	1.00	0.00
5,600.0	2.00	135.73	5,600.0	-2.5	2.4	-2.5	1.00	1.00	0.00
5,700.0	3.00	135.73	5,699.9	-5.6	5.5	-5.5	1.00	1.00	0.00
5,760.0	3.60	135.73	5,759.8	-8.1	7.9	-7.9	1.00	1.00	0.00
Start 4088.6 hold at 5760.0 MD									
5,800.0	3.60	135.73	5,799.7	-9.9	9.6	-9.7	0.00	0.00	0.00
5,900.0	3.60	135.73	5,899.5	-14.4	14.0	-14.1	0.00	0.00	0.00
6,000.0	3.60	135.73	5,999.3	-18.9	18.4	-18.5	0.00	0.00	0.00
6,100.0	3.60	135.73	6,099.1	-23.4	22.8	-22.9	0.00	0.00	0.00
6,200.0	3.60	135.73	6,198.9	-27.9	27.2	-27.3	0.00	0.00	0.00
6,300.0	3.60	135.73	6,298.7	-32.4	31.6	-31.8	0.00	0.00	0.00
6,400.0	3.60	135.73	6,398.5	-36.9	35.9	-36.2	0.00	0.00	0.00
6,500.0	3.60	135.73	6,498.3	-41.4	40.3	-40.6	0.00	0.00	0.00
6,600.0	3.60	135.73	6,598.1	-45.9	44.7	-45.0	0.00	0.00	0.00
6,700.0	3.60	135.73	6,697.9	-50.4	49.1	-49.4	0.00	0.00	0.00
6,800.0	3.60	135.73	6,797.7	-54.9	53.5	-53.8	0.00	0.00	0.00
6,900.0	3.60	135.73	6,897.5	-59.3	57.9	-58.2	0.00	0.00	0.00
7,000.0	3.60	135.73	6,997.3	-63.8	62.2	-62.6	0.00	0.00	0.00
7,100.0	3.60	135.73	7,097.1	-68.3	66.6	-67.0	0.00	0.00	0.00
7,200.0	3.60	135.73	7,196.9	-72.8	71.0	-71.5	0.00	0.00	0.00
7,300.0	3.60	135.73	7,296.7	-77.3	75.4	-75.9	0.00	0.00	0.00
7,400.0	3.60	135.73	7,396.5	-81.8	79.8	-80.3	0.00	0.00	0.00
7,500.0	3.60	135.73	7,496.3	-86.3	84.2	-84.7	0.00	0.00	0.00
7,600.0	3.60	135.73	7,596.1	-90.8	88.5	-89.1	0.00	0.00	0.00
7,700.0	3.60	135.73	7,695.9	-95.3	92.9	-93.5	0.00	0.00	0.00
7,800.0	3.60	135.73	7,795.7	-99.8	97.3	-97.9	0.00	0.00	0.00
7,900.0	3.60	135.73	7,895.5	-104.3	101.7	-102.3	0.00	0.00	0.00
8,000.0	3.60	135.73	7,995.3	-108.8	106.1	-106.7	0.00	0.00	0.00
8,100.0	3.60	135.73	8,095.1	-113.3	110.5	-111.2	0.00	0.00	0.00
8,200.0	3.60	135.73	8,194.9	-117.8	114.8	-115.6	0.00	0.00	0.00
8,300.0	3.60	135.73	8,294.8	-122.3	119.2	-120.0	0.00	0.00	0.00
8,400.0	3.60	135.73	8,394.6	-126.8	123.6	-124.4	0.00	0.00	0.00
8,424.5	3.60	135.73	8,419.0	-127.9	124.7	-125.5	0.00	0.00	0.00
Lower Brushy									
8,500.0	3.60	135.73	8,494.4	-131.3	128.0	-128.8	0.00	0.00	0.00
8,600.0	3.60	135.73	8,594.2	-135.8	132.4	-133.2	0.00	0.00	0.00
8,700.0	3.60	135.73	8,694.0	-140.3	136.8	-137.6	0.00	0.00	0.00
8,800.0	3.60	135.73	8,793.8	-144.8	141.1	-142.0	0.00	0.00	0.00
8,900.0	3.60	135.73	8,893.6	-149.3	145.5	-146.4	0.00	0.00	0.00
8,944.5	3.60	135.73	8,938.0	-151.3	147.5	-148.4	0.00	0.00	0.00
Avalon									
9,000.0	3.60	135.73	8,993.4	-153.8	149.9	-150.8	0.00	0.00	0.00
9,100.0	3.60	135.73	9,093.2	-158.3	154.3	-155.3	0.00	0.00	0.00
9,200.0	3.60	135.73	9,193.0	-162.7	158.7	-159.7	0.00	0.00	0.00
9,300.0	3.60	135.73	9,292.8	-167.2	163.1	-164.1	0.00	0.00	0.00
9,400.0	3.60	135.73	9,392.6	-171.7	167.4	-168.5	0.00	0.00	0.00
9,500.0	3.60	135.73	9,492.4	-176.2	171.8	-172.9	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Anderson Fed Com 556H
Company:	Advance Energy Partners	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site:	Anderson Fed Com - Pad B	North Reference:	Grid
Well:	Anderson Fed Com 556H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 556H		
Design:	Anderson Fed Com 556H - Prelim 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,600.0	3.60	135.73	9,592.2	-180.7	176.2	-177.3	0.00	0.00	0.00
9,700.0	3.60	135.73	9,692.0	-185.2	180.6	-181.7	0.00	0.00	0.00
9,800.0	3.60	135.73	9,791.8	-189.7	185.0	-186.1	0.00	0.00	0.00
9,813.2	3.60	135.73	9,805.0	-190.3	185.6	-186.7	0.00	0.00	0.00
1st BS Sand									
9,848.5	3.60	135.73	9,840.2	-191.9	187.1	-188.3	0.00	0.00	0.00
Start Drop -1.00									
9,900.0	3.09	135.73	9,891.6	-194.1	189.2	-190.4	1.00	-1.00	0.00
10,000.0	2.09	135.73	9,991.5	-197.3	192.4	-193.6	1.00	-1.00	0.00
10,100.0	1.09	135.73	10,091.5	-199.3	194.3	-195.5	1.00	-1.00	0.00
10,200.0	0.09	135.73	10,191.5	-200.0	195.0	-196.2	1.00	-1.00	0.00
10,208.5	0.00	0.00	10,200.0	-200.0	195.0	-196.2	1.00	-1.00	0.00
Start 722.5 hold at 10208.5 MD									
10,300.0	0.00	0.00	10,291.5	-200.0	195.0	-196.2	0.00	0.00	0.00
10,400.0	0.00	0.00	10,391.5	-200.0	195.0	-196.2	0.00	0.00	0.00
10,411.5	0.00	0.00	10,403.0	-200.0	195.0	-196.2	0.00	0.00	0.00
2nd BS Sand									
10,500.0	0.00	0.00	10,491.5	-200.0	195.0	-196.2	0.00	0.00	0.00
10,600.0	0.00	0.00	10,591.5	-200.0	195.0	-196.2	0.00	0.00	0.00
10,700.0	0.00	0.00	10,691.5	-200.0	195.0	-196.2	0.00	0.00	0.00
10,800.0	0.00	0.00	10,791.5	-200.0	195.0	-196.2	0.00	0.00	0.00
10,900.0	0.00	0.00	10,891.5	-200.0	195.0	-196.2	0.00	0.00	0.00
10,931.1	0.00	0.00	10,922.5	-200.0	195.0	-196.2	0.00	0.00	0.00
KOP #2 - Start Build 12.00									
10,979.6	5.83	356.44	10,971.0	-197.5	194.8	-193.8	12.00	12.00	0.00
3rd BS Carb									
11,000.0	8.27	356.44	10,991.2	-195.0	194.7	-191.3	12.00	12.00	0.00
11,100.0	20.27	356.44	11,088.0	-170.5	193.2	-166.7	12.00	12.00	0.00
11,200.0	32.27	356.44	11,177.5	-126.4	190.4	-122.7	12.00	12.00	0.00
11,300.0	44.27	356.44	11,255.8	-64.7	186.6	-61.1	12.00	12.00	0.00
11,400.0	56.27	356.44	11,319.6	11.9	181.8	15.4	12.00	12.00	0.00
11,500.0	68.27	356.44	11,366.1	100.1	176.3	103.5	12.00	12.00	0.00
11,600.0	80.27	356.44	11,393.1	196.0	170.3	199.2	12.00	12.00	0.00
11,681.1	90.00	356.44	11,400.0	276.5	165.3	279.7	12.00	12.00	0.00
LP - Start 5.0 hold at 11681.1 MD									
11,686.1	90.00	356.44	11,400.0	281.6	165.0	284.7	0.00	0.00	0.00
Start DLS 2.00 TFO 90.00 - Anderson Fed Com 556H LP									
11,700.0	90.00	356.71	11,400.0	295.4	164.2	298.5	2.00	0.00	2.00
11,800.0	90.00	358.71	11,400.0	395.3	160.2	398.3	2.00	0.00	2.00
11,850.1	90.00	359.71	11,400.0	445.4	159.5	448.4	2.00	0.00	2.00
Start 6239.6 hold at 11850.1 MD									
11,900.0	90.00	359.71	11,400.0	495.3	159.2	498.3	0.00	0.00	0.00
12,000.0	90.00	359.71	11,400.0	595.3	158.7	598.3	0.00	0.00	0.00
12,100.0	90.00	359.71	11,400.0	695.3	158.2	698.2	0.00	0.00	0.00
12,200.0	90.00	359.71	11,400.0	795.3	157.8	798.2	0.00	0.00	0.00
12,300.0	90.00	359.71	11,400.0	895.3	157.3	898.2	0.00	0.00	0.00
12,400.0	90.00	359.71	11,400.0	995.3	156.8	998.2	0.00	0.00	0.00
12,500.0	90.00	359.71	11,400.0	1,095.3	156.3	1,098.1	0.00	0.00	0.00
12,600.0	90.00	359.71	11,400.0	1,195.3	155.8	1,198.1	0.00	0.00	0.00
12,700.0	90.00	359.71	11,400.0	1,295.3	155.3	1,298.1	0.00	0.00	0.00
12,800.0	90.00	359.71	11,400.0	1,395.3	154.8	1,398.0	0.00	0.00	0.00
12,900.0	90.00	359.71	11,400.0	1,495.3	154.3	1,498.0	0.00	0.00	0.00
13,000.0	90.00	359.71	11,400.0	1,595.3	153.8	1,598.0	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Anderson Fed Com 556H
Company:	Advance Energy Partners	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Project:	Hat Mesa	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site:	Anderson Fed Com - Pad B	North Reference:	Grid
Well:	Anderson Fed Com 556H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Anderson Fed Com 556H		
Design:	Anderson Fed Com 556H - 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 556H - plan hits target center - Point	0.00	0.00	11,400.0	6,684.9	128.4	526,646.15	754,017.75	32° 26' 45.341 N	103° 38' 38.008 W
Anderson Fed Com 556H - plan hits target center - Point	0.00	0.00	11,400.0	281.6	165.0	520,242.81	754,054.34	32° 25' 41.977 N	103° 38' 38.063 W

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
11,678.0	11,400.0	LP	5-1/2	5-1/2	

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,193.0	1,193.0	Rustler		0.00	
4,771.0	4,771.0	Base of Limestone		0.00	
8,424.5	8,419.0	Lower Brushy		0.00	
8,944.5	8,938.0	Avalon		0.00	
9,813.2	9,805.0	1st BS Sand		0.00	
10,411.5	10,403.0	2nd BS Sand		0.00	
10,979.6	10,971.0	3rd BS Carb		0.00	

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
5,400.0	5,400.0	0.0	0.0	KOP - Start Build 1.00
5,760.0	5,759.8	-8.1	7.9	Start 4088.6 hold at 5760.0 MD
9,848.5	9,840.2	-191.9	187.1	Start Drop -1.00
10,208.5	10,200.0	-200.0	195.0	Start 722.5 hold at 10208.5 MD
10,931.1	10,922.5	-200.0	195.0	KOP #2 - Start Build 12.00
11,681.1	11,400.0	276.5	165.3	LP - Start 5.0 hold at 11681.1 MD
11,686.1	11,400.0	281.6	165.0	Start DLS 2.00 TFO 90.00
11,850.1	11,400.0	445.4	159.5	Start 6239.6 hold at 11850.1 MD
18,089.7	11,400.0	6,684.9	128.4	TD at 18089.7



Advance Energy Partners

Hat Mesa

Anderson Fed Com - Pad B

Anderson Fed Com 556H

Anderson Fed Com 556H

Anderson Fed Com 556H - Prelim 1

Anticollision Report

16 June, 2021



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 556H
Project:	Hat Mesa	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 556H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 556H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 556H - Prelim 1	Offset TVD Reference:	Offset Datum

Reference	Anderson Fed Com 556H - Prelim 1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 1,000.0usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.79 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	6/16/2021			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	18,089.6	Anderson Fed Com 556H - Prelim 1 (Ande	MWD+HRGM	OWSG MWD + HRGM	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Anderson Fed Com - Pad B						
Anderson Fed Com 503H - Anderson Fed Com 503H - A	5,582.3	5,583.6	58.9	31.6	2.158	CC
Anderson Fed Com 503H - Anderson Fed Com 503H - A	5,600.0	5,601.3	58.9	31.6	2.157	ES, SF
Anderson Fed Com 507H - Anderson Fed Com 507H - A	5,000.0	4,996.5	98.4	60.7	2.610	CC, ES
Anderson Fed Com 507H - Anderson Fed Com 507H - A	5,100.0	5,094.9	99.2	60.8	2.587	SF
Anderson Fed Com 555H - Anderson Fed Com 555H - A	5,619.7	5,620.4	28.6	1.0	1.037	Level 3, CC, ES, SF
Anderson Fed Com 603H - Anderson Fed Com 603H - A	6,009.3	6,008.2	53.3	24.8	1.867	CC, ES, SF
Anderson Fed Com 703H - Anderson Fed Com 703H - A	5,898.5	5,897.5	26.7	-1.5	0.946	Level 3, CC
Anderson Fed Com 703H - Anderson Fed Com 703H - A	5,900.0	5,899.0	26.7	-1.5	0.946	Level 3, ES, SF

Offset Design:	Anderson Fed Com - Pad B - Anderson Fed Com 503H - Anderson Fed Com 503H - Anderson Fed Com 503H - Prelim 1											Offset Site Error:	0.0 usft
Survey Program:	0-MWD+HRGM											Offset Well Error:	0.0 usft
Reference	Vertical	Offset	Semi Major Axis	Highside	Offset Wellbore Centre	Distance	Rule Assigned:	Minimum	Separation	Warning			
Measured Depth (usft)	Depth (usft)	Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor		
0.0	0.0	0.0	0.0	0.0	-90.68	-0.8	-66.6	66.6					
100.0	100.0	100.0	0.5	0.5	-90.68	-0.8	-66.6	66.6	65.6	1.07	62.336		
200.0	200.0	200.0	1.7	1.7	-90.68	-0.8	-66.6	66.6	63.2	3.43	19.442		
300.0	300.0	300.0	2.4	2.4	-90.68	-0.8	-66.6	66.6	61.8	4.83	13.810		
400.0	400.0	400.0	3.0	3.0	-90.68	-0.8	-66.6	66.6	60.7	5.91	11.276		
500.0	500.0	500.0	3.4	3.4	-90.68	-0.8	-66.6	66.6	59.8	6.83	9.755		
600.0	600.0	600.0	3.8	3.8	-90.68	-0.8	-66.6	66.6	59.0	7.65	8.711		
700.0	700.0	700.0	4.2	4.2	-90.68	-0.8	-66.6	66.6	58.3	8.40	7.938		
800.0	800.0	800.0	4.5	4.5	-90.68	-0.8	-66.6	66.6	57.6	9.09	7.336		
900.0	900.0	900.0	4.9	4.9	-90.68	-0.8	-66.6	66.6	56.9	9.73	6.849		
1,000.0	1,000.0	1,000.0	5.2	5.2	-90.68	-0.8	-66.6	66.6	56.3	10.34	6.444		
1,100.0	1,100.0	1,100.0	5.5	5.5	-90.68	-0.8	-66.6	66.6	55.7	10.92	6.101		
1,200.0	1,200.0	1,200.0	5.7	5.7	-90.68	-0.8	-66.6	66.6	55.2	11.48	5.805		
1,300.0	1,300.0	1,300.0	6.0	6.0	-90.68	-0.8	-66.6	66.6	54.6	12.02	5.547		
1,400.0	1,400.0	1,400.0	6.3	6.3	-90.68	-0.8	-66.6	66.6	54.1	12.53	5.318		
1,500.0	1,500.0	1,500.0	6.5	6.5	-90.68	-0.8	-66.6	66.6	53.6	13.03	5.114		
1,600.0	1,600.0	1,600.0	6.8	6.8	-90.68	-0.8	-66.6	66.6	53.1	13.52	4.930		
1,700.0	1,700.0	1,700.0	7.0	7.0	-90.68	-0.8	-66.6	66.6	52.7	13.99	4.764		
1,800.0	1,800.0	1,800.0	7.2	7.2	-90.68	-0.8	-66.6	66.6	52.2	14.45	4.612		
1,900.0	1,900.0	1,900.0	7.5	7.5	-90.68	-0.8	-66.6	66.6	51.7	14.90	4.473		

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 556H
Project:	Hat Mesa	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 556H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 556H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 556H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 507H - Anderson Fed Com 507H - Anderson Fed Com 507H - Prelim 1												Offset Site Error:	0.0 usft
Survey Program: 0-B001Mb_MWD+HRGM												Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	0.0	0.0	0.0	0.0	89.42	1.0	98.4	98.5				
100.0	100.0	96.5	96.5	0.5	0.2	89.42	1.0	98.4	98.4	97.7	0.70	141.126	
200.0	200.0	196.5	196.5	1.7	0.7	89.42	1.0	98.4	98.4	96.1	2.37	41.613	
300.0	300.0	296.5	296.5	2.4	1.2	89.42	1.0	98.4	98.4	94.9	3.56	27.614	
400.0	400.0	396.5	396.5	3.0	1.7	89.42	1.0	98.4	98.4	93.8	4.61	21.366	
500.0	500.0	496.5	496.5	3.4	2.2	89.42	1.0	98.4	98.4	92.9	5.57	17.678	
600.0	600.0	596.5	596.5	3.8	2.7	89.42	1.0	98.4	98.4	92.0	6.48	15.197	
700.0	700.0	696.5	696.5	4.2	3.2	89.42	1.0	98.4	98.4	91.1	7.35	13.393	
800.0	800.0	796.5	796.5	4.5	3.7	89.42	1.0	98.4	98.4	90.2	8.19	12.012	
900.0	900.0	896.5	896.5	4.9	4.2	89.42	1.0	98.4	98.4	89.4	9.02	10.915	
1,000.0	1,000.0	996.5	996.5	5.2	4.7	89.42	1.0	98.4	98.4	88.6	9.82	10.020	
1,100.0	1,100.0	1,096.5	1,096.5	5.5	5.2	89.42	1.0	98.4	98.4	87.8	10.61	9.273	
1,200.0	1,200.0	1,196.5	1,196.5	5.7	5.7	89.42	1.0	98.4	98.4	87.0	11.39	8.640	
1,300.0	1,300.0	1,296.5	1,296.5	6.0	6.2	89.42	1.0	98.4	98.4	86.3	12.16	8.094	
1,400.0	1,400.0	1,396.5	1,396.5	6.3	6.7	89.42	1.0	98.4	98.4	85.5	12.92	7.619	
1,500.0	1,500.0	1,496.5	1,496.5	6.5	7.2	89.42	1.0	98.4	98.4	84.8	13.67	7.201	
1,600.0	1,600.0	1,596.5	1,596.5	6.8	7.7	89.42	1.0	98.4	98.4	84.0	14.41	6.830	
1,700.0	1,700.0	1,696.5	1,696.5	7.0	8.2	89.42	1.0	98.4	98.4	83.3	15.15	6.498	
1,800.0	1,800.0	1,796.5	1,796.5	7.2	8.7	89.42	1.0	98.4	98.4	82.6	15.88	6.199	
1,900.0	1,900.0	1,896.5	1,896.5	7.5	9.2	89.42	1.0	98.4	98.4	81.8	16.60	5.929	
2,000.0	2,000.0	1,996.5	1,996.5	7.7	9.7	89.42	1.0	98.4	98.4	81.1	17.32	5.682	
2,100.0	2,100.0	2,096.5	2,096.5	7.9	10.2	89.42	1.0	98.4	98.4	80.4	18.04	5.457	
2,200.0	2,200.0	2,196.5	2,196.5	8.1	10.7	89.42	1.0	98.4	98.4	79.7	18.75	5.250	
2,300.0	2,300.0	2,296.5	2,296.5	8.3	11.2	89.42	1.0	98.4	98.4	79.0	19.46	5.059	
2,400.0	2,400.0	2,396.5	2,396.5	8.5	11.7	89.42	1.0	98.4	98.4	78.3	20.16	4.882	
2,500.0	2,500.0	2,496.5	2,496.5	8.7	12.2	89.42	1.0	98.4	98.4	77.6	20.86	4.718	
2,600.0	2,600.0	2,596.5	2,596.5	8.9	12.7	89.42	1.0	98.4	98.4	76.9	21.56	4.565	
2,700.0	2,700.0	2,696.5	2,696.5	9.1	13.2	89.42	1.0	98.4	98.4	76.2	22.25	4.423	
2,800.0	2,800.0	2,796.5	2,796.5	9.3	13.7	89.42	1.0	98.4	98.4	75.5	22.95	4.290	
2,900.0	2,900.0	2,896.5	2,896.5	9.5	14.2	89.42	1.0	98.4	98.4	74.8	23.64	4.164	
3,000.0	3,000.0	2,996.5	2,996.5	9.7	14.7	89.42	1.0	98.4	98.4	74.1	24.32	4.047	
3,100.0	3,100.0	3,096.5	3,096.5	9.9	15.2	89.42	1.0	98.4	98.4	73.4	25.01	3.936	
3,200.0	3,200.0	3,196.5	3,196.5	10.0	15.7	89.42	1.0	98.4	98.4	72.7	25.69	3.831	
3,300.0	3,300.0	3,296.5	3,296.5	10.2	16.2	89.42	1.0	98.4	98.4	72.1	26.37	3.732	
3,400.0	3,400.0	3,396.5	3,396.5	10.4	16.7	89.42	1.0	98.4	98.4	71.4	27.05	3.639	
3,500.0	3,500.0	3,496.5	3,496.5	10.6	17.2	89.42	1.0	98.4	98.4	70.7	27.73	3.550	
3,600.0	3,600.0	3,596.5	3,596.5	10.7	17.7	89.42	1.0	98.4	98.4	70.0	28.40	3.465	
3,700.0	3,700.0	3,696.5	3,696.5	10.9	18.2	89.42	1.0	98.4	98.4	69.4	29.08	3.385	
3,800.0	3,800.0	3,796.5	3,796.5	11.1	18.7	89.42	1.0	98.4	98.4	68.7	29.75	3.309	
3,900.0	3,900.0	3,896.5	3,896.5	11.3	19.2	89.42	1.0	98.4	98.4	68.0	30.42	3.236	
4,000.0	4,000.0	3,996.5	3,996.5	11.4	19.7	89.42	1.0	98.4	98.4	67.3	31.09	3.166	
4,100.0	4,100.0	4,096.5	4,096.5	11.6	20.2	89.42	1.0	98.4	98.4	66.7	31.76	3.099	
4,200.0	4,200.0	4,196.5	4,196.5	11.8	20.7	89.42	1.0	98.4	98.4	66.0	32.42	3.036	
4,300.0	4,300.0	4,296.5	4,296.5	11.9	21.2	89.42	1.0	98.4	98.4	65.3	33.09	2.975	
4,400.0	4,400.0	4,396.5	4,396.5	12.1	21.7	89.42	1.0	98.4	98.4	64.7	33.75	2.916	
4,500.0	4,500.0	4,496.5	4,496.5	12.3	22.2	89.42	1.0	98.4	98.4	64.0	34.42	2.860	
4,600.0	4,600.0	4,596.5	4,596.5	12.4	22.7	89.42	1.0	98.4	98.4	63.4	35.08	2.806	
4,700.0	4,700.0	4,696.5	4,696.5	12.6	23.2	89.42	1.0	98.4	98.4	62.7	35.74	2.754	
4,800.0	4,800.0	4,796.5	4,796.5	12.7	23.7	89.42	1.0	98.4	98.4	62.0	36.40	2.704	
4,900.0	4,900.0	4,896.5	4,896.5	12.9	24.2	89.42	1.0	98.4	98.4	61.4	37.06	2.656	
5,000.0	5,000.0	4,996.5	4,996.5	13.1	24.7	89.42	1.0	98.4	98.4	60.7	37.72	2.610 CC, ES	
5,100.0	5,100.0	5,094.9	5,094.9	13.2	25.1	89.56	0.8	99.2	99.2	60.8	38.35	2.587 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 556H
Project:	Hat Mesa	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 556H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 556H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 556H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 507H - Anderson Fed Com 507H - Anderson Fed Com 507H - Prelim 1													Offset Site Error: 0.0 usft	
Survey Program: 0-B001Mb_MWD+HRGM													Offset Well Error: 0.0 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,208.5	10,200.0	9,700.7	9,585.5	28.4	49.0		88.73	-187.9	742.3	820.3	756.7	63.67		12.885
10,300.0	10,291.5	9,760.2	9,625.1	28.5	49.5		88.37	-183.1	786.4	888.5	824.4	64.11		13.858
10,400.0	10,391.5	9,822.9	9,666.1	28.5	50.1	87.32	-170.2	832.1	963.3	898.8	64.50	14.934		

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 556H
Project:	Hat Mesa	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 556H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 556H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 556H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 555H - Anderson Fed Com 555H - Anderson Fed Com 555H - Prelim 1													Offset Site Error: 0.0 usft		
Survey Program: 0-MWD+HRGM				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			
0.0	0.0	0.0	0.0	0.0	0.0	-91.01	-0.6	-32.7	32.7						
100.0	100.0	100.0	100.0	0.5	0.5	-91.01	-0.6	-32.7	32.7	31.6	1.07	30.592			
200.0	200.0	200.0	200.0	1.7	1.7	-91.01	-0.6	-32.7	32.7	29.3	3.43	9.542			
300.0	300.0	300.0	300.0	2.4	2.4	-91.01	-0.6	-32.7	32.7	27.9	4.83	6.777			
400.0	400.0	400.0	400.0	3.0	3.0	-91.01	-0.6	-32.7	32.7	26.8	5.91	5.534			
500.0	500.0	500.0	500.0	3.4	3.4	-91.01	-0.6	-32.7	32.7	25.9	6.83	4.787			
600.0	600.0	600.0	600.0	3.8	3.8	-91.01	-0.6	-32.7	32.7	25.1	7.65	4.275			
700.0	700.0	700.0	700.0	4.2	4.2	-91.01	-0.6	-32.7	32.7	24.3	8.40	3.896			
800.0	800.0	800.0	800.0	4.5	4.5	-91.01	-0.6	-32.7	32.7	23.6	9.09	3.600			
900.0	900.0	900.0	900.0	4.9	4.9	-91.01	-0.6	-32.7	32.7	23.0	9.73	3.361			
1,000.0	1,000.0	1,000.0	1,000.0	5.2	5.2	-91.01	-0.6	-32.7	32.7	22.4	10.34	3.162			
1,100.0	1,100.0	1,100.0	1,100.0	5.5	5.5	-91.01	-0.6	-32.7	32.7	21.8	10.92	2.994			
1,200.0	1,200.0	1,200.0	1,200.0	5.7	5.7	-91.01	-0.6	-32.7	32.7	21.2	11.48	2.849			
1,300.0	1,300.0	1,300.0	1,300.0	6.0	6.0	-91.01	-0.6	-32.7	32.7	20.7	12.02	2.722			
1,400.0	1,400.0	1,400.0	1,400.0	6.3	6.3	-91.01	-0.6	-32.7	32.7	20.2	12.53	2.610			
1,500.0	1,500.0	1,500.0	1,500.0	6.5	6.5	-91.01	-0.6	-32.7	32.7	19.7	13.03	2.510			
1,600.0	1,600.0	1,600.0	1,600.0	6.8	6.8	-91.01	-0.6	-32.7	32.7	19.2	13.52	2.420			
1,700.0	1,700.0	1,700.0	1,700.0	7.0	7.0	-91.01	-0.6	-32.7	32.7	18.7	13.99	2.338			
1,800.0	1,800.0	1,800.0	1,800.0	7.2	7.2	-91.01	-0.6	-32.7	32.7	18.3	14.45	2.263			
1,900.0	1,900.0	1,900.0	1,900.0	7.5	7.5	-91.01	-0.6	-32.7	32.7	17.8	14.90	2.195			
2,000.0	2,000.0	2,000.0	2,000.0	7.7	7.7	-91.01	-0.6	-32.7	32.7	17.4	15.34	2.132			
2,100.0	2,100.0	2,100.0	2,100.0	7.9	7.9	-91.01	-0.6	-32.7	32.7	16.9	15.77	2.074			
2,200.0	2,200.0	2,200.0	2,200.0	8.1	8.1	-91.01	-0.6	-32.7	32.7	16.5	16.19	2.020			
2,300.0	2,300.0	2,300.0	2,300.0	8.3	8.3	-91.01	-0.6	-32.7	32.7	16.1	16.61	1.969			
2,400.0	2,400.0	2,400.0	2,400.0	8.5	8.5	-91.01	-0.6	-32.7	32.7	15.7	17.02	1.922			
2,500.0	2,500.0	2,500.0	2,500.0	8.7	8.7	-91.01	-0.6	-32.7	32.7	15.3	17.42	1.878			
2,600.0	2,600.0	2,600.0	2,600.0	8.9	8.9	-91.01	-0.6	-32.7	32.7	14.9	17.81	1.836			
2,700.0	2,700.0	2,700.0	2,700.0	9.1	9.1	-91.01	-0.6	-32.7	32.7	14.5	18.20	1.797			
2,800.0	2,800.0	2,800.0	2,800.0	9.3	9.3	-91.01	-0.6	-32.7	32.7	14.1	18.59	1.760			
2,900.0	2,900.0	2,900.0	2,900.0	9.5	9.5	-91.01	-0.6	-32.7	32.7	13.7	18.97	1.725			
3,000.0	3,000.0	3,000.0	3,000.0	9.7	9.7	-91.01	-0.6	-32.7	32.7	13.4	19.34	1.691			
3,100.0	3,100.0	3,100.0	3,100.0	9.9	9.9	-91.01	-0.6	-32.7	32.7	13.0	19.71	1.660			
3,200.0	3,200.0	3,200.0	3,200.0	10.0	10.0	-91.01	-0.6	-32.7	32.7	12.6	20.08	1.629			
3,300.0	3,300.0	3,300.0	3,300.0	10.2	10.2	-91.01	-0.6	-32.7	32.7	12.3	20.44	1.600			
3,400.0	3,400.0	3,400.0	3,400.0	10.4	10.4	-91.01	-0.6	-32.7	32.7	11.9	20.79	1.573			
3,500.0	3,500.0	3,500.0	3,500.0	10.6	10.6	-91.01	-0.6	-32.7	32.7	11.6	21.15	1.547			
3,600.0	3,600.0	3,600.0	3,600.0	10.7	10.7	-91.01	-0.6	-32.7	32.7	11.2	21.50	1.521			
3,700.0	3,700.0	3,700.0	3,700.0	10.9	10.9	-91.01	-0.6	-32.7	32.7	10.9	21.85	1.497 Level 3			
3,800.0	3,800.0	3,800.0	3,800.0	11.1	11.1	-91.01	-0.6	-32.7	32.7	10.5	22.19	1.474 Level 3			
3,900.0	3,900.0	3,900.0	3,900.0	11.3	11.3	-91.01	-0.6	-32.7	32.7	10.2	22.53	1.452 Level 3			
4,000.0	4,000.0	4,000.0	4,000.0	11.4	11.4	-91.01	-0.6	-32.7	32.7	9.8	22.87	1.430 Level 3			
4,100.0	4,100.0	4,100.0	4,100.0	11.6	11.6	-91.01	-0.6	-32.7	32.7	9.5	23.21	1.409 Level 3			
4,200.0	4,200.0	4,200.0	4,200.0	11.8	11.8	-91.01	-0.6	-32.7	32.7	9.2	23.54	1.389 Level 3			
4,300.0	4,300.0	4,300.0	4,300.0	11.9	11.9	-91.01	-0.6	-32.7	32.7	8.8	23.87	1.370 Level 3			
4,400.0	4,400.0	4,400.0	4,400.0	12.1	12.1	-91.01	-0.6	-32.7	32.7	8.5	24.20	1.352 Level 3			
4,500.0	4,500.0	4,500.0	4,500.0	12.3	12.3	-91.01	-0.6	-32.7	32.7	8.2	24.53	1.334 Level 3			
4,600.0	4,600.0	4,600.0	4,600.0	12.4	12.4	-91.01	-0.6	-32.7	32.7	7.9	24.85	1.316 Level 3			
4,700.0	4,700.0	4,700.0	4,700.0	12.6	12.6	-91.01	-0.6	-32.7	32.7	7.5	25.17	1.299 Level 3			
4,800.0	4,800.0	4,800.0	4,800.0	12.7	12.7	-91.01	-0.6	-32.7	32.7	7.2	25.49	1.283 Level 3			
4,900.0	4,900.0	4,900.0	4,900.0	12.9	12.9	-91.01	-0.6	-32.7	32.7	6.9	25.81	1.267 Level 3			
5,000.0	5,000.0	5,000.0	5,000.0	13.1	13.1	-91.01	-0.6	-32.7	32.7	6.6	26.13	1.252 Level 3			
5,100.0	5,100.0	5,100.0	5,100.0	13.2	13.2	-91.01	-0.6	-32.7	32.7	6.3	26.44	1.237 Level 3			

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



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 556H
Project:	Hat Mesa	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 556H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 556H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 556H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 555H - Anderson Fed Com 555H - Anderson Fed Com 555H - Prelim 1											Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM											Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Minimum	Separation	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	
12,300.0	11,400.0	11,739.4	10,840.0	32.2	31.9	0.77	895.4	164.8	560.1	491.6	68.49	8.177
12,400.0	11,400.0	11,839.4	10,840.0	33.3	33.0	0.76	995.4	164.2	560.0	490.7	69.36	8.075
12,500.0	11,400.0	11,939.4	10,840.0	34.5	34.2	0.74	1,095.4	163.5	560.0	489.8	70.28	7.968
12,600.0	11,400.0	12,039.4	10,840.0	35.8	35.4	0.73	1,195.4	162.9	560.0	488.8	71.27	7.859
12,700.0	11,400.0	12,139.4	10,840.0	37.2	36.8	0.72	1,295.4	162.3	560.0	487.7	72.30	7.746
12,800.0	11,400.0	12,239.4	10,840.0	38.6	38.2	0.70	1,395.4	161.7	560.0	486.7	73.38	7.632
12,900.0	11,400.0	12,339.4	10,840.0	40.1	39.7	0.69	1,495.4	161.0	560.0	485.5	74.51	7.516
13,000.0	11,400.0	12,439.4	10,840.0	41.7	41.2	0.68	1,595.4	160.4	560.0	484.3	75.69	7.399
13,100.0	11,400.0	12,539.4	10,840.0	43.3	42.8	0.66	1,695.4	159.8	560.0	483.1	76.92	7.281
13,200.0	11,400.0	12,639.4	10,840.0	44.9	44.4	0.65	1,795.4	159.1	560.0	481.9	78.18	7.164
13,300.0	11,400.0	12,739.4	10,840.0	46.6	46.1	0.64	1,895.4	158.5	560.0	480.6	79.48	7.046
13,400.0	11,400.0	12,839.4	10,840.0	48.3	47.8	0.62	1,995.4	157.9	560.0	479.2	80.82	6.929
13,500.0	11,400.0	12,939.4	10,840.0	50.0	49.5	0.61	2,095.4	157.3	560.0	477.8	82.20	6.813
13,600.0	11,400.0	13,039.4	10,840.0	51.7	51.3	0.60	2,195.4	156.6	560.0	476.4	83.61	6.698
13,700.0	11,400.0	13,139.4	10,840.0	53.5	53.1	0.58	2,295.4	156.0	560.0	475.0	85.06	6.584
13,800.0	11,400.0	13,239.4	10,840.0	55.3	54.8	0.57	2,395.4	155.4	560.0	473.5	86.53	6.472
13,900.0	11,400.0	13,339.4	10,840.0	57.1	56.7	0.56	2,495.3	154.7	560.0	472.0	88.04	6.361
14,000.0	11,400.0	13,439.4	10,840.0	58.9	58.5	0.54	2,595.3	154.1	560.0	470.5	89.57	6.252
14,100.0	11,400.0	13,539.4	10,840.0	60.7	60.3	0.53	2,695.3	153.5	560.0	468.9	91.13	6.145
14,200.0	11,400.0	13,639.4	10,840.0	62.6	62.2	0.52	2,795.3	152.9	560.0	467.3	92.72	6.040
14,300.0	11,400.0	13,739.4	10,840.0	64.4	64.0	0.50	2,895.3	152.2	560.0	465.7	94.33	5.937
14,400.0	11,400.0	13,839.4	10,840.0	66.3	65.9	0.49	2,995.3	151.6	560.0	464.1	95.96	5.836
14,500.0	11,400.0	13,939.4	10,840.0	68.2	67.8	0.48	3,095.3	151.0	560.0	462.4	97.61	5.737
14,600.0	11,400.0	14,039.4	10,840.0	70.0	69.7	0.46	3,195.3	150.3	560.0	460.7	99.28	5.641
14,700.0	11,400.0	14,139.4	10,840.0	71.9	71.6	0.45	3,295.3	149.7	560.0	459.0	100.97	5.546
14,800.0	11,400.0	14,239.4	10,840.0	73.8	73.5	0.44	3,395.3	149.1	560.0	457.3	102.69	5.454
14,900.0	11,400.0	14,339.4	10,840.0	75.7	75.4	0.43	3,495.3	148.5	560.0	455.6	104.41	5.363
15,000.0	11,400.0	14,439.4	10,840.0	77.6	77.3	0.41	3,595.3	147.8	560.0	453.9	106.16	5.275
15,100.0	11,400.0	14,539.4	10,840.0	79.5	79.2	0.40	3,695.3	147.2	560.0	452.1	107.92	5.189
15,200.0	11,400.0	14,639.4	10,840.0	81.5	81.1	0.39	3,795.3	146.6	560.0	450.3	109.70	5.105
15,300.0	11,400.0	14,739.4	10,840.0	83.4	83.1	0.37	3,895.3	145.9	560.0	448.5	111.49	5.023
15,400.0	11,400.0	14,839.4	10,840.0	85.3	85.0	0.36	3,995.3	145.3	560.0	446.7	113.29	4.943
15,500.0	11,400.0	14,939.4	10,840.0	87.2	86.9	0.35	4,095.3	144.7	560.0	444.9	115.11	4.865
15,600.0	11,400.0	15,039.4	10,840.0	89.2	88.9	0.33	4,195.3	144.1	560.0	443.1	116.94	4.789
15,700.0	11,400.0	15,139.4	10,840.0	91.1	90.8	0.32	4,295.3	143.4	560.0	441.2	118.78	4.715
15,800.0	11,400.0	15,239.4	10,840.0	93.1	92.8	0.31	4,395.3	142.8	560.0	439.4	120.64	4.642
15,900.0	11,400.0	15,339.4	10,840.0	95.0	94.7	0.29	4,495.3	142.2	560.0	437.5	122.50	4.571
16,000.0	11,400.0	15,439.4	10,840.0	96.9	96.7	0.28	4,595.3	141.5	560.0	435.6	124.38	4.503
16,100.0	11,400.0	15,539.4	10,840.0	98.9	98.6	0.27	4,695.3	140.9	560.0	433.7	126.26	4.435
16,200.0	11,400.0	15,639.4	10,840.0	100.9	100.6	0.25	4,795.3	140.3	560.0	431.9	128.15	4.370
16,300.0	11,400.0	15,739.4	10,840.0	102.8	102.5	0.24	4,895.3	139.7	560.0	429.9	130.06	4.306
16,400.0	11,400.0	15,839.4	10,840.0	104.8	104.5	0.23	4,995.3	139.0	560.0	428.0	131.97	4.243
16,500.0	11,400.0	15,939.4	10,840.0	106.7	106.5	0.21	5,095.3	138.4	560.0	426.1	133.89	4.183
16,600.0	11,400.0	16,039.4	10,840.0	108.7	108.4	0.20	5,195.3	137.8	560.0	424.2	135.82	4.123
16,700.0	11,400.0	16,139.4	10,840.0	110.7	110.4	0.19	5,295.3	137.1	560.0	422.2	137.75	4.065
16,800.0	11,400.0	16,239.4	10,840.0	112.6	112.4	0.17	5,395.3	136.5	560.0	420.3	139.70	4.009
16,900.0	11,400.0	16,339.4	10,840.0	114.6	114.3	0.16	5,495.3	135.9	560.0	418.4	141.65	3.954
17,000.0	11,400.0	16,439.4	10,840.0	116.6	116.3	0.15	5,595.3	135.3	560.0	416.4	143.60	3.900
17,100.0	11,400.0	16,539.4	10,840.0	118.5	118.3	0.13	5,695.3	134.6	560.0	414.4	145.57	3.847
17,200.0	11,400.0	16,639.4	10,840.0	120.5	120.3	0.12	5,795.3	134.0	560.0	412.5	147.53	3.796
17,300.0	11,400.0	16,739.4	10,840.0	122.5	122.2	0.11	5,895.3	133.4	560.0	410.5	149.51	3.746
17,400.0	11,400.0	16,839.4	10,840.0	124.4	124.2	0.09	5,995.3	132.7	560.0	408.5	151.49	3.697

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 556H
Project:	Hat Mesa	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 556H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 556H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 556H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 555H - Anderson Fed Com 555H - Anderson Fed Com 555H - Prelim 1													Offset Site Error:	0.0 usft
Survey Program:		0-MWD+HRGM						Rule Assigned:				Offset Well Error:	0.0 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance			Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)		Separation Factor	
17,500.0	11,400.0	16,939.4	10,840.0	126.4	126.2	0.08	6,095.3	132.1	560.0	406.5	153.48	3.649		
17,600.0	11,400.0	17,039.4	10,840.0	128.4	128.2	0.07	6,195.3	131.5	560.0	404.5	155.47	3.602		
17,700.0	11,400.0	17,139.4	10,840.0	130.4	130.2	0.05	6,295.3	130.9	560.0	402.5	157.47	3.556		
17,800.0	11,400.0	17,239.4	10,840.0	132.4	132.1	0.04	6,395.3	130.2	560.0	400.5	159.47	3.512		
17,900.0	11,400.0	17,339.4	10,840.0	134.3	134.1	0.03	6,495.3	129.6	560.0	398.5	161.47	3.468		
18,000.0	11,400.0	17,439.4	10,840.0	136.3	136.1	0.01	6,595.3	129.0	560.0	396.5	163.48	3.425		
18,089.7	11,400.0	17,529.1	10,840.0	138.1	137.9	0.00	6,684.9	128.4	560.0	394.7	165.29	3.388		



Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 556H
Project:	Hat Mesa	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 556H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 556H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 556H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 603H - Anderson Fed Com 603H - Anderson Fed Com 603H - Prelim 1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,100.0	10,091.5	9,989.1	9,961.0	28.2	29.5	-54.95	-159.2	428.5	271.5	220.7	50.79	5.346	
10,208.5	10,200.0	10,050.0	10,010.7	28.4	30.1	83.51	-169.6	462.1	329.3	276.3	53.06	6.207	
10,300.0	10,291.5	10,087.8	10,039.3	28.5	30.5	85.45	-176.9	485.8	386.2	331.7	54.53	7.082	
10,400.0	10,391.5	10,126.9	10,066.8	28.5	30.8	87.28	-184.9	512.3	454.9	399.0	55.86	8.143	
10,500.0	10,491.5	10,150.0	10,082.1	28.6	31.0	88.28	-190.0	528.9	529.2	472.3	56.84	9.310	
10,600.0	10,591.5	10,200.0	10,112.2	28.7	31.4	90.22	-201.4	567.0	607.5	549.4	58.03	10.468	
10,700.0	10,691.5	10,221.5	10,124.2	28.7	31.5	90.95	-206.4	584.3	688.9	630.2	58.67	11.742	
10,800.0	10,791.5	10,279.1	10,156.4	28.8	31.7	92.04	-215.5	631.1	771.4	711.9	59.41	12.983	
10,900.0	10,891.5	10,338.1	10,189.8	28.9	32.0	92.14	-218.1	679.6	853.7	793.7	60.08	14.210	
10,931.1	10,922.5	10,356.5	10,200.2	28.9	32.1	92.01	-217.5	694.7	879.3	819.0	60.27	14.590	
10,950.0	10,941.5	10,367.6	10,206.6	28.8	32.2	92.22	-216.9	703.9	894.9	834.5	60.38	14.820	
10,975.0	10,966.4	10,382.4	10,214.9	28.8	32.3	87.86	-215.6	716.0	915.5	854.9	60.55	15.120	
11,000.0	10,991.2	10,397.2	10,223.3	28.7	32.4	83.64	-213.9	728.1	936.0	875.3	60.72	15.417	
11,025.0	11,015.9	10,412.1	10,231.6	28.7	32.5	79.60	-211.7	740.2	956.5	895.6	60.90	15.707	
11,050.0	11,040.2	10,427.2	10,240.1	28.6	32.6	75.78	-209.1	752.5	976.8	915.8	61.09	15.991	
11,075.0	11,064.3	10,442.5	10,248.6	28.5	32.7	72.21	-206.0	764.8	997.0	935.7	61.28	16.269	

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 556H
Project:	Hat Mesa	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 556H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 556H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 556H - Prelim 1	Offset TVD Reference:	Offset Datum

Offset Design: Anderson Fed Com - Pad B - Anderson Fed Com 703H - Anderson Fed Com 703H - Anderson Fed Com 703H - Prelim 1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD+HRGM													Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance			Rule Assigned:					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
17,600.0	11,400.0	18,256.2	12,050.0	128.4	129.5	179.99	6,195.3	130.9	650.0	491.8	158.23	4.108		
17,700.0	11,400.0	18,356.2	12,050.0	130.4	131.4	180.00	6,295.3	130.4	650.0	489.8	160.20	4.057		
17,800.0	11,400.0	18,456.2	12,050.0	132.4	133.4	180.00	6,395.3	129.9	650.0	487.8	162.18	4.008		
17,900.0	11,400.0	18,556.2	12,050.0	134.3	135.4	180.00	6,495.3	129.4	650.0	485.8	164.16	3.959		
18,000.0	11,400.0	18,656.2	12,050.0	136.3	137.4	180.00	6,595.3	128.9	650.0	483.8	166.15	3.912		
18,089.7	11,400.0	18,745.9	12,050.0	138.1	139.1	180.00	6,684.9	128.4	650.0	482.1	167.94	3.871		

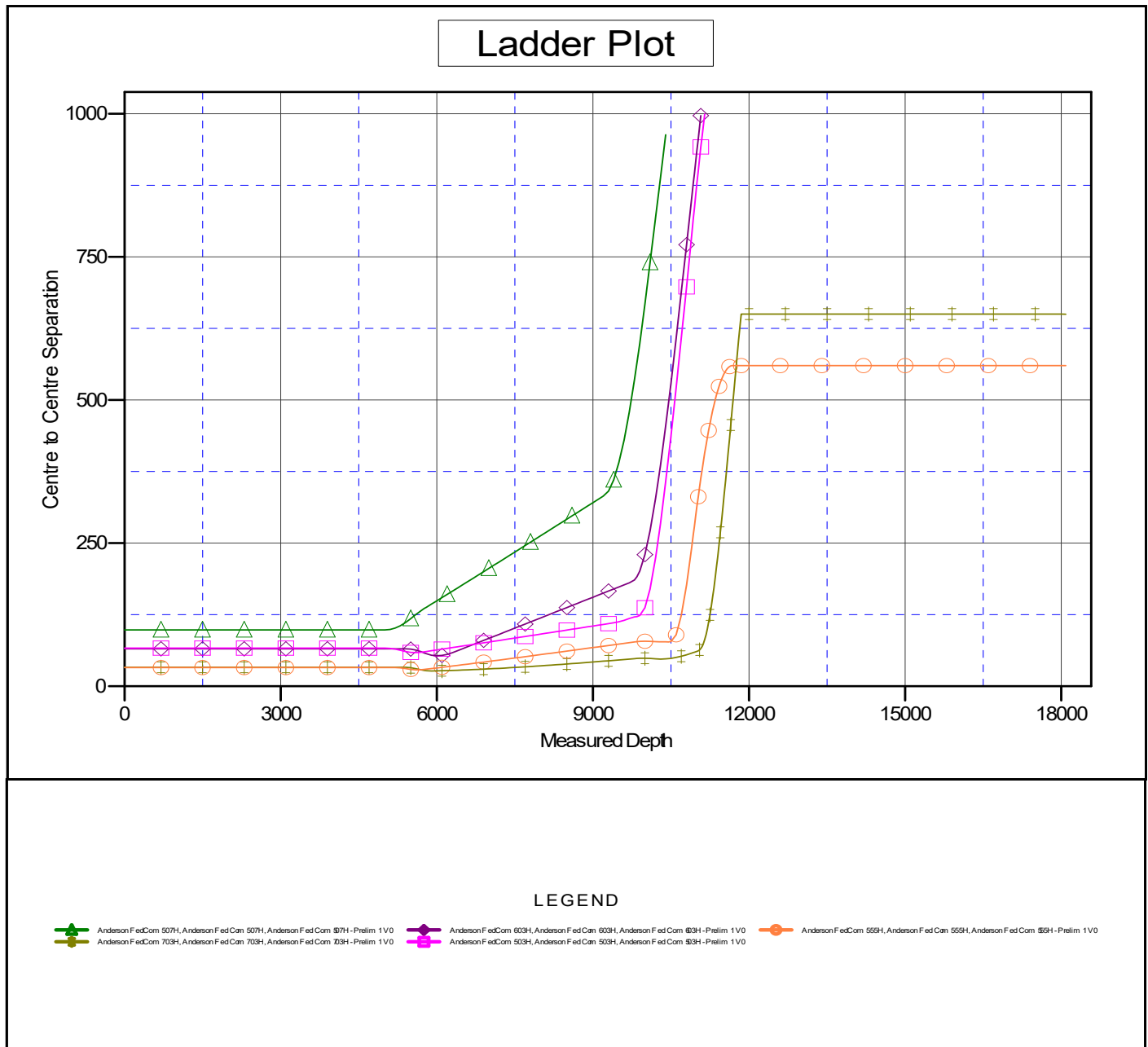


Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 556H
Project:	Hat Mesa	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Anderson Fed Com 556H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.79 sigma
Reference Wellbore	Anderson Fed Com 556H	Database:	EDM 5000.16 Single User Db
Reference Design:	Anderson Fed Com 556H - Prelim 1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 3698.0usft (Original Well Ele)
 Offset Depths are relative to Offset Datum
 Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Anderson Fed Com 556H
 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



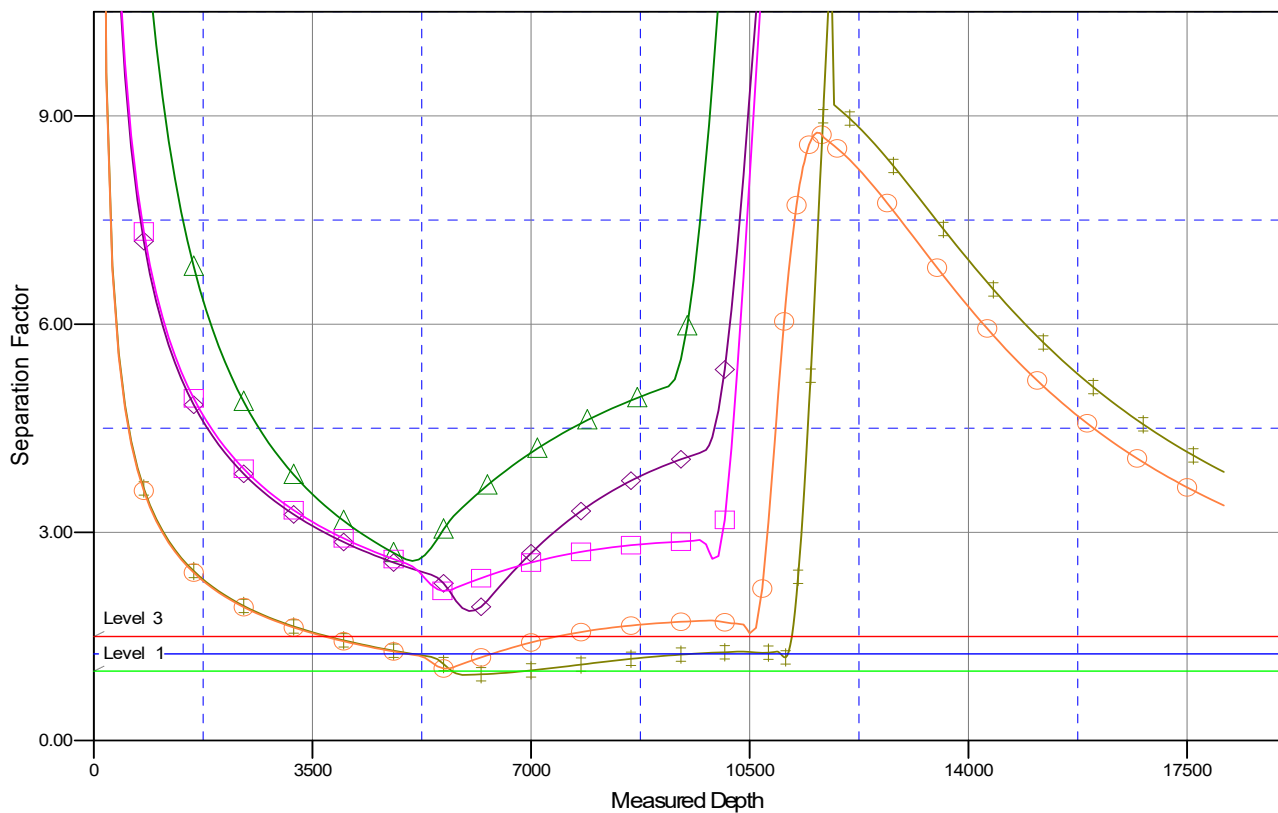
Anticollision Report

Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Anderson Fed Com 556H
Project:	Hat Mesa	TVD Reference:	WELL @ 3698.0usft (Original Well Elev)
Reference Site:	Anderson Fed Com - Pad B	MD Reference:	WELL @ 3698.0usft (Original Well Elev)
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Reference Design:	Anderson Fed Com 556H - Prelim 1	Offset TVD Reference:	Offset Datum

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Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Anderson Fed Com 556H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.37°

Separation Factor Plot



LEGEND

Anderson FedCom 507H, Anderson Fed Com 507H, Anderson Fed Com 507H - Prelim 1 V0
 Anderson FedCom 603H, Anderson Fed Com 603H, Anderson Fed Com 603H - Prelim 1 V0
 Anderson FedCom 503H, Anderson Fed Com 503H, Anderson Fed Com 503H - Prelim 1 V0
 Anderson FedCom 703H, Anderson Fed Com 703H, Anderson Fed Com 703H - Prelim 1 V0
 Anderson FedCom 559H, Anderson Fed Com 559H, Anderson Fed Com 559H - Prelim 1 V0

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

District I

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

District II

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

District III

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

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 54943

CONDITIONS

Operator: ADVANCE ENERGY PARTNERS HAT MESA, LLC 11490 Westheimer Rd., Ste 950 Houston, TX 77077	OGRID: 372417
	Action Number: 54943
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	10/12/2021