

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

Form C-101
August 1, 2011

Permit 276480

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address ADVANCE ENERGY PARTNERS HAT MESA, LLC 11490 Westheimer Rd., Ste 950 Houston, TX 77077		2. OGRID Number 372417
4. Property Code 319603		3. API Number 30-025-46704
5. Property Name MERCHANT STATE UNIT		6. Well No. 603H

7. Surface Location

UL - Lot C	Section 35	Township 21S	Range 33E	Lot Idn C	Feet From 200	N/S Line N	Feet From 1720	E/W Line W	County Lea
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8. Proposed Bottom Hole Location

UL - Lot N	Section 2	Township 22S	Range 33E	Lot Idn N	Feet From 100	N/S Line S	Feet From 1980	E/W Line W	County Lea
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9. Pool Information

WC-025 G-06 S213326D;BONE SPRING	97929
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3685
16. Multiple N	17. Proposed Depth 22133	18. Formation Bone Spring	19. Contractor	20. Spud Date 1/6/2020
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	1600	500	0
Int1	12.25	9.625	40	4000	950	0
Int1	12.25	9.625	40	4000	330	4000
Prod	8.5	5.5	20	22133	2300	0

Casing/Cement Program: Additional Comments

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22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000	5000	

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable.	OIL CONSERVATION DIVISION	
Signature:		
Printed Name: Electronically filed by David C Harwell	Approved By: Paul F Kautz	
Title: VP Engineering	Title: Geologist	
Email Address: dharwell@advanceenergypartners.com	Approved Date: 1/10/2020	Expiration Date: 1/10/2022
Date: 1/4/2020	Phone: 832-672-4604	Conditions of Approval Attached

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DISTRICT IV

1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3480 Fax: (505) 476-3482State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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

Form C-102

Revised August 4, 2011

Submit one copy to appropriate
District Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

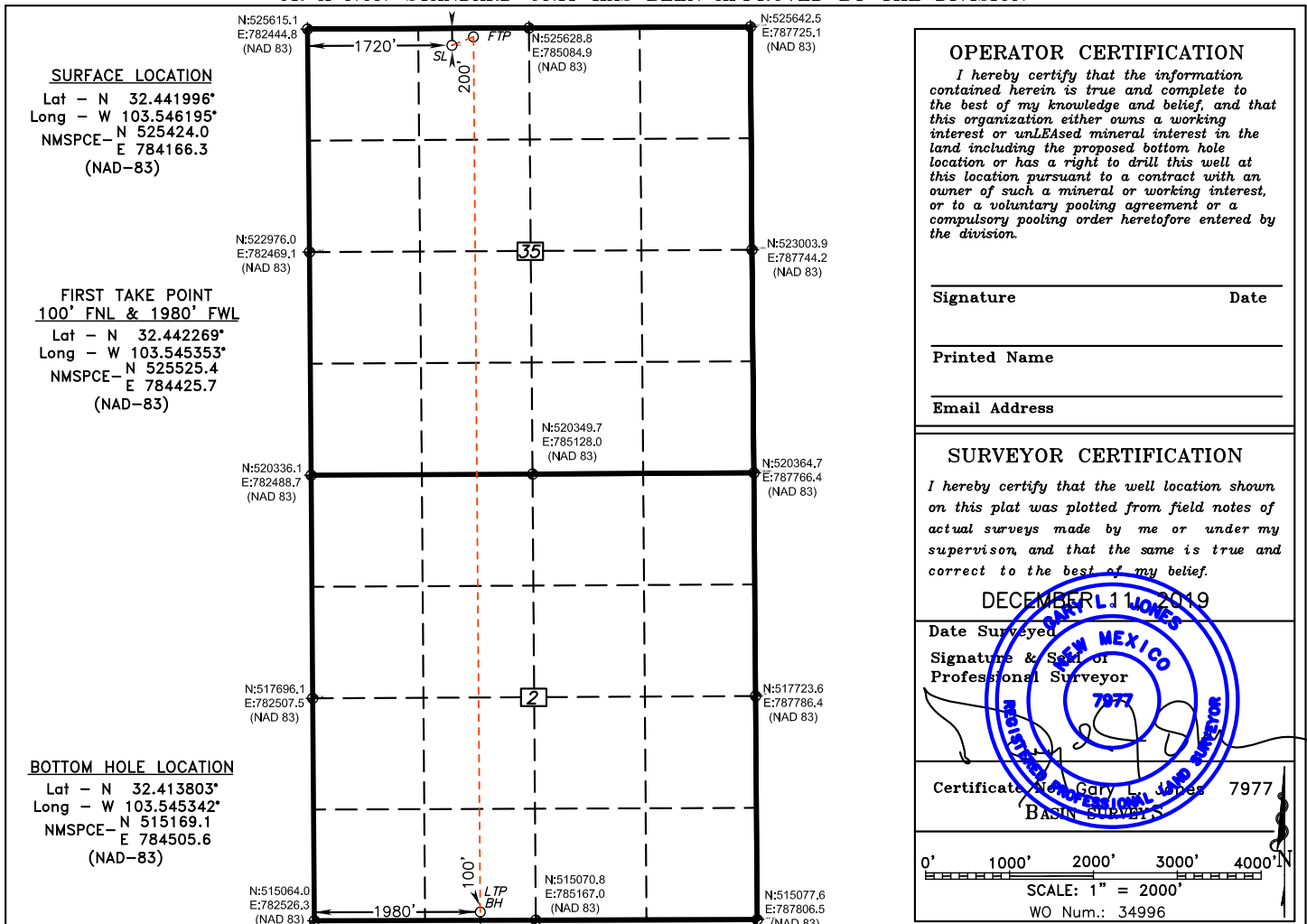
API Number	Pool Code 97929	Pool Name WC-025 G-06 S213326D; BONE SPRING
Property Code 319603	Property Name MERCHANT STATE UNIT	Well Number 603H
OGRID No. 372417	Operator Name ADVANCE ENERGY PARTNERS HAT MESA	Elevation 3685'

Surface Location

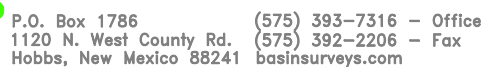
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	SOUTH/South line	Feet from the	East/West line	County
C	35	21 S	33 E		200	NORTH	1720	WEST	LEA

Bottom Hole Location If Different From Surface

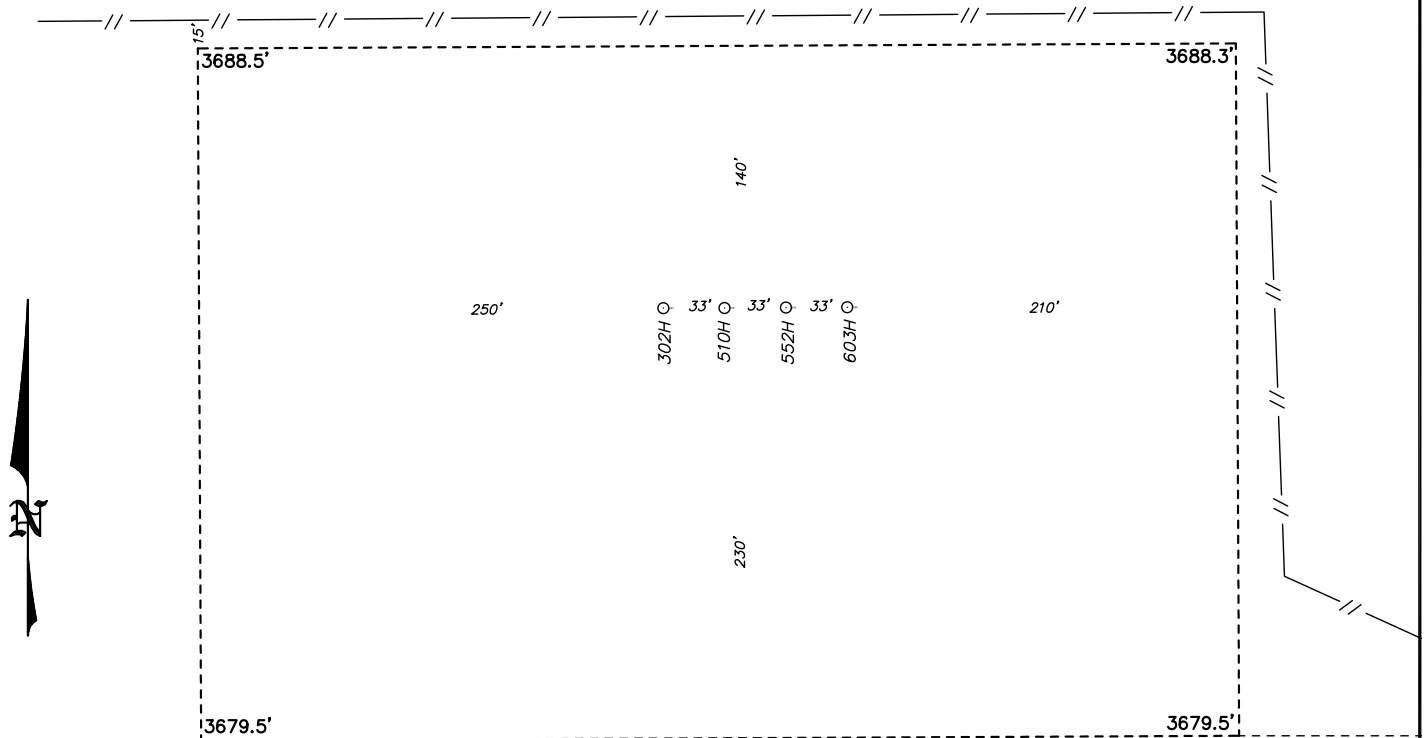
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	SOUTH/South line	Feet from the	East/West line	County
N	2	22 S	33 E		100	SOUTH	1980	WEST	LEA
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.						

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

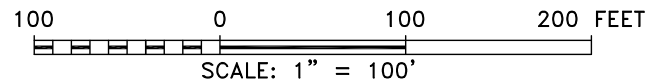
State Hwy 176



**SECTION 35, TOWNSHIP 21 SOUTH, RANGE 33 EAST. N.M.P.M.,
LEA COUNTY, NEW MEXICO.**



Existing Lease Road



ADVANCE ENERGY PARTNERS HAT MESA

REF: MERCHANT STATE UNIT 603H / WELL PAD TOPO

THE MERCHANT STATE UNIT 603H LOCATED 200' FROM
THE NORTH LINE AND 1720' FROM THE WEST LINE OF
SECTION 35, TOWNSHIP 21 SOUTH, RANGE 33 EAST.

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

**basin
surveys**
focused on excellence
in the oilfield

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

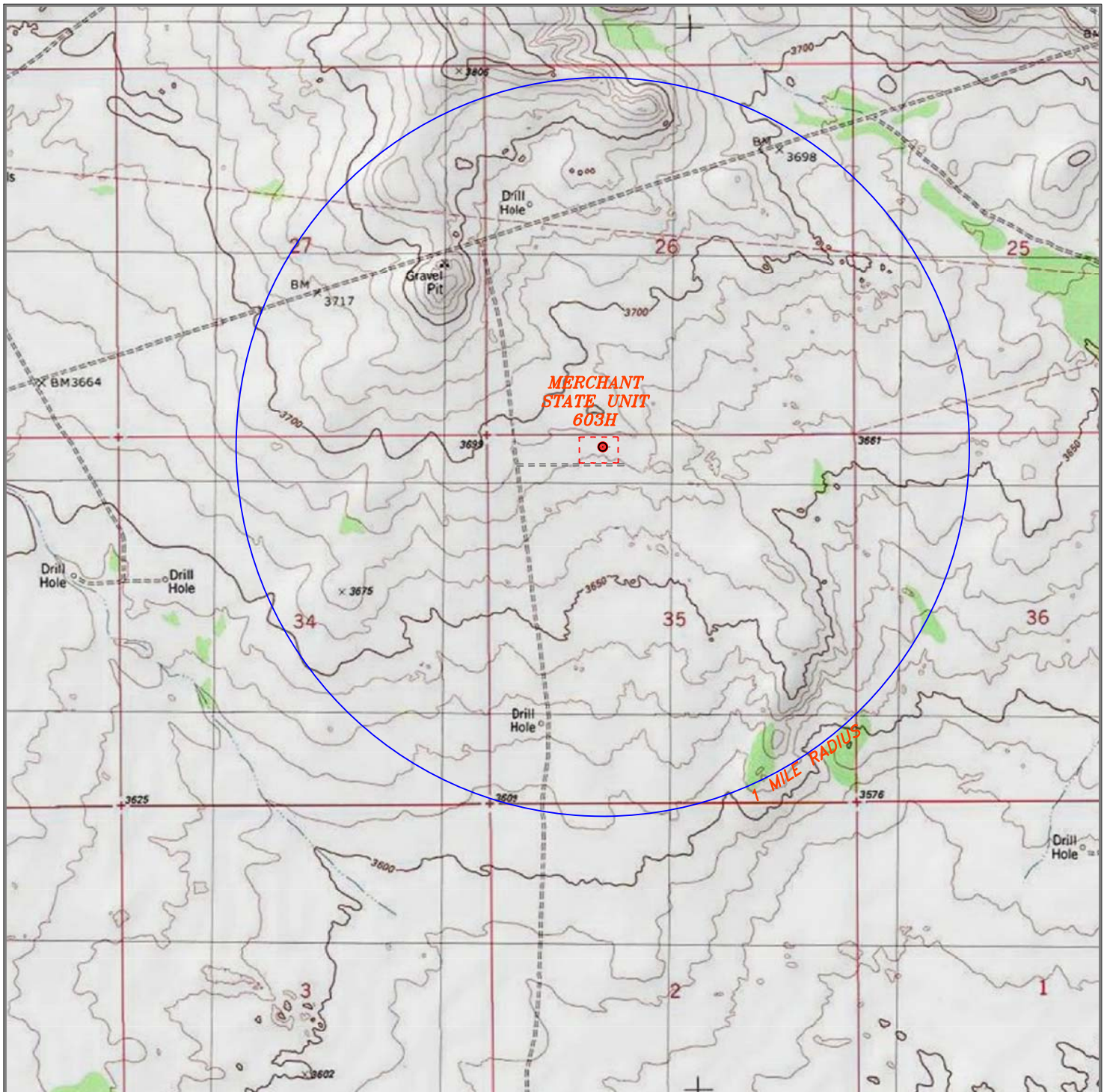
W.O. Number: 34996

Drawn By: J. GOAD

Date: 12-30-2019

Survey Date: 12-11-2019

Sheet 1 of 1 Sheets



MERCHANT STATE UNIT 603H

Located 200' FNL and 1720' FWL
 Section 35, Township 21 South, Range 33 East,
 N.M.P.M., Lea County, New Mexico.



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

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

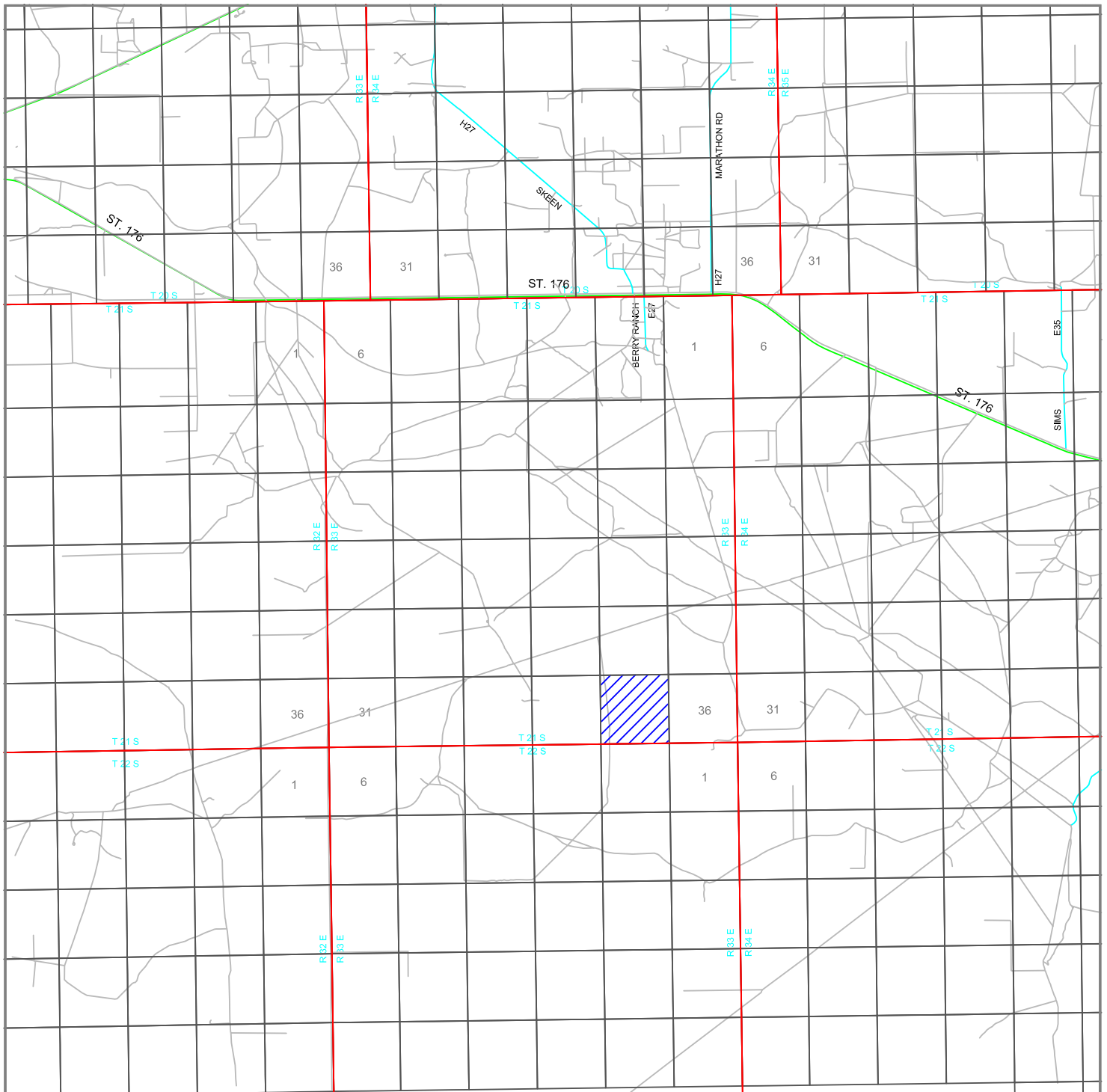
W.O. Number: JG 34996

Survey Date: 12-11-2019

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



**ADVANCE
 ENERGY
 PARTNERS
 HAT MESA**



MERCHANT STATE UNIT 603H

Located 200' FNL and 1720' FWL
 Section 35, Township 21 South, Range 33 East,
 N.M.P.M., Lea County, New Mexico.



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0 1 MI 2 MI 3 MI 4 MI
 SCALE: 1" = 2 MILES

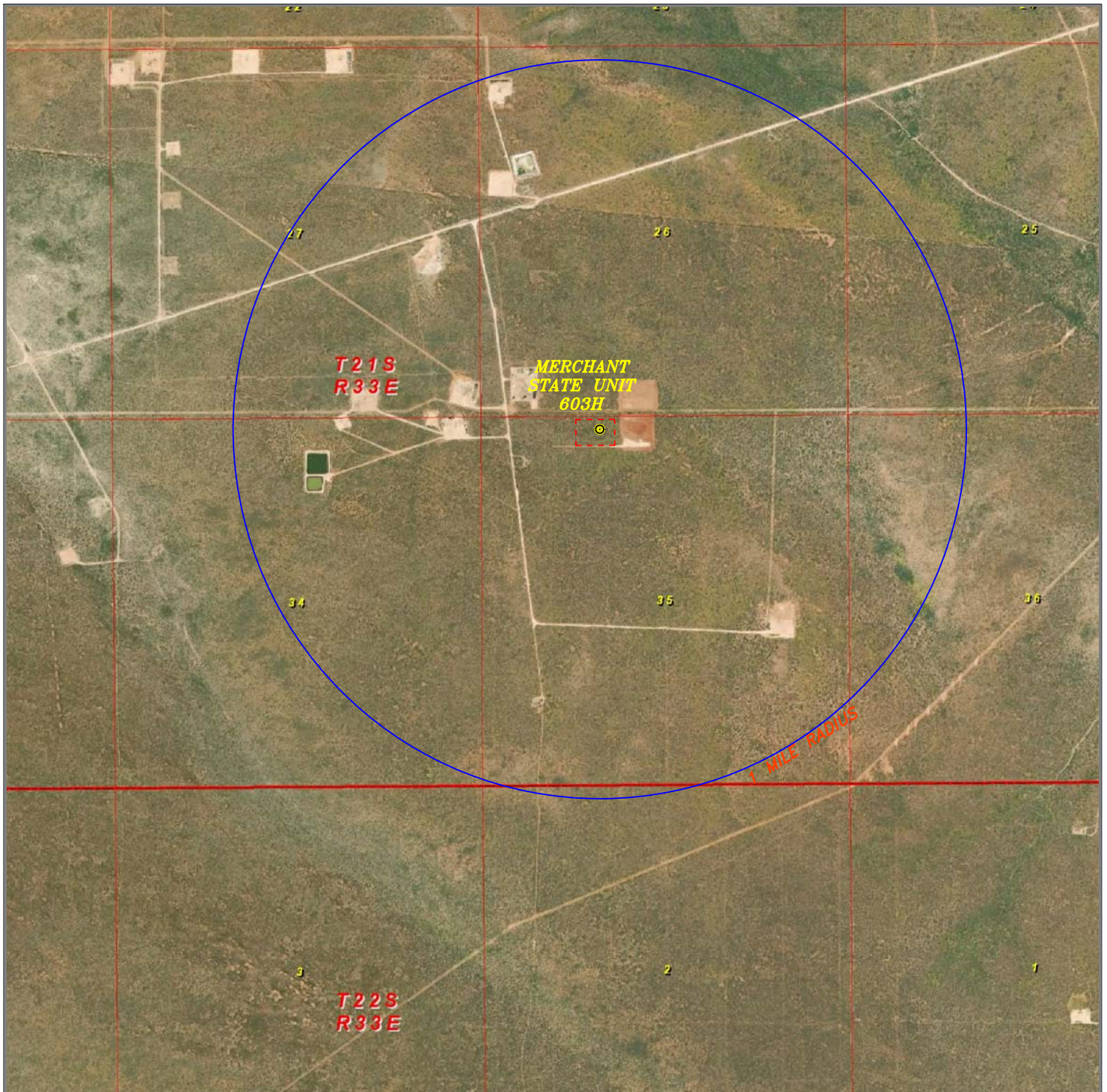
W.O. Number: JG 34996

Survey Date: 12-11-2019

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 NATURAL COLOR - FEE LAND



**ADVANCE
 ENERGY
 PARTNERS
 HAT MESA**



MERCHANT STATE UNIT 603H

Located 200' FNL and 1720' FWL
 Section 35, Township 21 South, Range 33 East,
 N.M.P.M., Lea County, New Mexico.



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

W.O. Number: JG 34996

Survey Date: 12-11-2019

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 NATURAL COLOR - FEE LAND



**ADVANCE
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 HAT MESA**

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

GAS CAPTURE PLAN

Date: 1/10/2020

☒ Original

Operator & OGRID No.: [372417] ADVANCE ENERGY PARTNERS HAT MESA, LLC

☐ Amended - Reason for
Amendment: _____

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomple to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
MERCHANT STATE UNIT #603H	30-025-46704	C-35-21S-33E	0200N 1720W	1500	Flared	Flared initial testing and cleanup

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to TARGA MIDSTREAM SERVICES LLC and will be connected to TARGA MIDSTREAM SERVICES LLC Low Pressure gathering system located in Lea County, New Mexico. It will require 200' of pipeline to connect the facility to Low Pressure gathering system. ADVANCE ENERGY PARTNERS HAT MESA, LLC provides (periodically) to TARGA MIDSTREAM SERVICES LLC a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, ADVANCE ENERGY PARTNERS HAT MESA, LLC and TARGA MIDSTREAM SERVICES LLC have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at TARGA MIDSTREAM SERVICES LLC Processing Plant located in Sec. 36, Twn. 19S, Rng. 36E, Lea County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on TARGA MIDSTREAM SERVICES LLC system at that time. Based on current information, it is ADVANCE ENERGY PARTNERS HAT MESA, LLC's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
 - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
 - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

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State of New Mexico
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Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form APD Comments

Permit 276480

PERMIT COMMENTS

Operator Name and Address: ADVANCE ENERGY PARTNERS HAT MESA, LLC [372417] 11490 Westheimer Rd., Ste 950 Houston, TX 77077	API Number: 30-025-46704
	Well: MERCHANT STATE UNIT #603H

Created By	Comment	Comment Date
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Energy, Minerals and Natural Resources
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1220 S. St Francis Dr.
Santa Fe, NM 87505

Form APD Conditions

Permit 276480

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: ADVANCE ENERGY PARTNERS HAT MESA, LLC [372417] 11490 Westheimer Rd., Ste 950 Houston, TX 77077	API Number: 30-025-46704
	Well: MERCHANT STATE UNIT #603H

OCD Reviewer	Condition
pkautz	Will require a directional survey with the C-104
pkautz	Potash Area - Three String Casing Program - In accordance with R-111-P all strings shall be cemented to surface. Salt Protection String - If the cement fails to reach the surface or the bottom of the cellar, where required, the top of the cement shall be located by a temperature or other survey and additional cementing shall be done until the cement is brought to the surface.
pkautz	If cement does not circulate to surface, must run temperature survey or other log to determine top of cement
pkautz	Surface casing must be set 25' below top of Rustler Anhydrite in order to seal off protectable water
pkautz	1)- The Operator is to notify NMOCDD by sundry (Form C-103) within ten (10) days of the well being spud 2)- Drilling Sundries Form C-103 (Casing and Cement test are to be submitted within 10 days 3)- Completion Reports & Logs are to be submitted within 45 days 4)- Deviation / Directional Drill Survey are to be filed with or prior to C-104
pkautz	It is the operator's responsibility to monitor cancellation dates of approved APDs. APD's are good for 2 years and may be extended for one year. Only one 1 year extension will be granted if submitted by C-103 before expiration date. After expiration date or after a 1 year extension must submit new APD. If an APD expires and if site construction has occurred, site remediation is required.
pkautz	Stage Tool 1) Must notify OCD Hobbs Office prior to running Stage Tool at 5753703186 2) If using Stage Tool on Surface casing, Stage Tool must be set greater than 350' from surface and a minimum of 200 feet above surface shoe. 3) When using a Stage Tool on Intermediate or Production Casing Stage must be a minimum of 50 feet below previous casing shoe.



11490 Westheimer Road, Suite 950, Houston, Texas 77077 • Phone 832-672-4700 • Fax 832-672-4609

January 2, 2020

Oil Conservation Division
Energy Minerals and Natural Resources Department
1625 N. French Dr.
Hobbs, New Mexico 88240

Attn: Mr. Paul Kautz

**Re: Application for Merchant State Unit 603H
Unit C, Section 35-T21S-R33E
Lea County, New Mexico**

Dear Mr. Kautz,

I am providing answers to you questions and requests for additional information about any potash leases within 1 mile of the referenced Section 35.

This letter is to confirm there are no potash leases within 1 mile of Section 35, Township 21 South, Range 33 East, Lea County, NM.

Sincerely,

A handwritten signature in black ink that reads "Paul Burdick". The signature is fluid and cursive.

Paul J. Burdick
Land Advisor
Advance Energy Partners Hat Mesa, LLC
Email: PBurdick@Advanceenergypartners.com
Office Telephone: 832-672-4623
Cell Telephone: 713-228-7320



Advance Energy Partners

**Lea County, NM (NAD 83 NME)
(Merchant State)Sec35_T-21-S_R-33-E
Merchant State Unit #603H**

**OWB
Plan 0.1**

Anticollision Report

03 January, 2020





Microsoft
Anticollision Report



Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Merchant State Unit #603H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3710.5usft (H&P 466)
Reference Site:	(Merchant State)Sec35_T-21-S_R-33-E	MD Reference:	KB @ 3710.5usft (H&P 466)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Merchant State Unit #603H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 10_13
Reference Design:	Plan 0.1	Offset TVD Reference:	Offset Datum

Reference	Plan 0.1
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria
Interpolation Method:	MD Interval 100.0usft
Depth Range:	Unlimited
Results Limited by:	Maximum center-center distance of 2,000.0 usft
Warning Levels Evaluated at:	2.00 Sigma
Error Model:	ISCWSA
Scan Method:	Closest Approach 3D
Error Surface:	Pedal Curve
Casing Method:	Not applied

Survey Tool Program		Date	01/03/2020		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	22,133.2	Plan 0.1 (OWB)	MWD	OWSG MWD - Standard	

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							
(Merchant State)Sec35_T-21-S_R-33-E							
Merchant State Unit #302H - OWB - Plan 0.1	6,873.7	6,887.5	34.3	-14.5	0.703	Level 1, CC, SF	
Merchant State Unit #302H - OWB - Plan 0.1	6,900.0	6,913.5	34.5	-14.5	0.704	Level 1, ES	
Merchant State Unit #510H - OWB - Plan 0.1	5,400.0	5,400.0	66.0	27.7	1.725	CC, ES	
Merchant State Unit #510H - OWB - Plan 0.1	5,500.0	5,499.9	66.8	27.8	1.713	SF	
Merchant State Unit #552H - OWB - Plan 0.1	5,104.2	5,104.2	33.0	-3.1	0.913	Level 1, CC	
Merchant State Unit #552H - OWB - Plan 0.1	5,300.0	5,299.8	33.5	-4.0	0.892	Level 1, ES, SF	

Offset Design:(Merchant State)Sec35_T-21-S_R-33-E - Merchant State Unit #302H - OWB - Plan 0.1													Offset Site Error:	0.0 usft
Survey Program:		0-MWD		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:			Offset Well Error:	0.0 usft
Reference	Vertical	Measured	Vertical	Reference	Offset	Highside			Distance				Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	1.0	1.0	0.0	0.0	-90.23	-0.4	-99.0	99.0					
100.0	100.0	101.0	101.0	0.1	0.1	-90.23	-0.4	-99.0	99.0	98.7	0.27	365.794		
200.0	200.0	201.0	201.0	0.5	0.5	-90.23	-0.4	-99.0	99.0	98.0	0.99	100.245		
300.0	300.0	301.0	301.0	0.9	0.9	-90.23	-0.4	-99.0	99.0	97.3	1.70	58.081		
400.0	400.0	401.0	401.0	1.2	1.2	-90.23	-0.4	-99.0	99.0	96.6	2.42	40.884		
500.0	500.0	501.0	501.0	1.6	1.6	-90.23	-0.4	-99.0	99.0	95.9	3.14	31.545		
600.0	600.0	601.0	601.0	1.9	1.9	-90.23	-0.4	-99.0	99.0	95.1	3.86	25.679		
700.0	700.0	701.0	701.0	2.3	2.3	-90.23	-0.4	-99.0	99.0	94.4	4.57	21.652		
800.0	800.0	801.0	801.0	2.6	2.6	-90.23	-0.4	-99.0	99.0	93.7	5.29	18.717		
900.0	900.0	901.0	901.0	3.0	3.0	-90.23	-0.4	-99.0	99.0	93.0	6.01	16.483		
1,000.0	1,000.0	1,001.0	1,001.0	3.4	3.4	-90.23	-0.4	-99.0	99.0	92.3	6.72	14.725		
1,100.0	1,100.0	1,101.0	1,101.0	3.7	3.7	-90.23	-0.4	-99.0	99.0	91.6	7.44	13.306		
1,200.0	1,200.0	1,201.0	1,201.0	4.1	4.1	-90.23	-0.4	-99.0	99.0	90.8	8.16	12.137		
1,300.0	1,300.0	1,301.0	1,301.0	4.4	4.4	-90.23	-0.4	-99.0	99.0	90.1	8.87	11.156		
1,400.0	1,400.0	1,401.0	1,401.0	4.8	4.8	-90.23	-0.4	-99.0	99.0	89.4	9.59	10.322		
1,500.0	1,500.0	1,501.0	1,501.0	5.2	5.2	-90.23	-0.4	-99.0	99.0	88.7	10.31	9.604		
1,600.0	1,600.0	1,601.0	1,601.0	5.5	5.5	-90.23	-0.4	-99.0	99.0	88.0	11.02	8.980		
1,700.0	1,700.0	1,701.0	1,701.0	5.9	5.9	-90.23	-0.4	-99.0	99.0	87.3	11.74	8.432		
1,800.0	1,800.0	1,801.0	1,801.0	6.2	6.2	-90.23	-0.4	-99.0	99.0	86.5	12.46	7.946		
1,900.0	1,900.0	1,901.0	1,901.0	6.6	6.6	-90.23	-0.4	-99.0	99.0	85.8	13.18	7.514		
2,000.0	2,000.0	2,001.0	2,001.0	6.9	6.9	-90.23	-0.4	-99.0	99.0	85.1	13.89	7.126		

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



Microsoft
Anticollision Report



Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Merchant State Unit #603H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3710.5usft (H&P 466)
Reference Site:	(Merchant State)Sec35_T-21-S_R-33-E	MD Reference:	KB @ 3710.5usft (H&P 466)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Merchant State Unit #603H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 10_13
Reference Design:	Plan 0.1	Offset TVD Reference:	Offset Datum

Offset Design:(Merchant State)Sec35_T-21-S_R-33-E - Merchant State Unit #302H - OWB - Plan 0.1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Reference Depth (usft)	Measured Depth (usft)	Vertical Offset Depth (usft)	Semi Major Axis Reference (usft)	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	
2,100.0	2,100.0	2,101.0	2,101.0	7.3	7.3	-90.23	-0.4	-99.0	99.0	84.4	14.61	6.776		
2,200.0	2,200.0	2,201.0	2,201.0	7.7	7.7	-90.23	-0.4	-99.0	99.0	83.7	15.33	6.459		
2,300.0	2,300.0	2,301.0	2,301.0	8.0	8.0	-90.23	-0.4	-99.0	99.0	83.0	16.04	6.171		
2,400.0	2,400.0	2,401.0	2,401.0	8.4	8.4	-90.23	-0.4	-99.0	99.0	82.2	16.76	5.907		
2,500.0	2,500.0	2,501.0	2,501.0	8.7	8.7	-90.23	-0.4	-99.0	99.0	81.5	17.48	5.665		
2,600.0	2,600.0	2,601.0	2,601.0	9.1	9.1	-90.23	-0.4	-99.0	99.0	80.8	18.19	5.441		
2,700.0	2,700.0	2,701.0	2,701.0	9.5	9.5	-90.23	-0.4	-99.0	99.0	80.1	18.91	5.235		
2,800.0	2,800.0	2,801.0	2,801.0	9.8	9.8	-90.23	-0.4	-99.0	99.0	79.4	19.63	5.044		
2,900.0	2,900.0	2,901.0	2,901.0	10.2	10.2	-90.23	-0.4	-99.0	99.0	78.7	20.35	4.866		
3,000.0	3,000.0	3,001.0	3,001.0	10.5	10.5	-90.23	-0.4	-99.0	99.0	77.9	21.06	4.700		
3,100.0	3,100.0	3,101.0	3,101.0	10.9	10.9	-90.23	-0.4	-99.0	99.0	77.2	21.78	4.546		
3,200.0	3,200.0	3,201.0	3,201.0	11.2	11.2	-90.23	-0.4	-99.0	99.0	76.5	22.50	4.401		
3,300.0	3,300.0	3,301.0	3,301.0	11.6	11.6	-90.23	-0.4	-99.0	99.0	75.8	23.21	4.265		
3,400.0	3,400.0	3,401.0	3,401.0	12.0	12.0	-90.23	-0.4	-99.0	99.0	75.1	23.93	4.137		
3,500.0	3,500.0	3,501.0	3,501.0	12.3	12.3	-90.23	-0.4	-99.0	99.0	74.4	24.65	4.017		
3,600.0	3,600.0	3,601.0	3,601.0	12.7	12.7	-90.23	-0.4	-99.0	99.0	73.6	25.36	3.903		
3,700.0	3,700.0	3,701.0	3,701.0	13.0	13.0	-90.23	-0.4	-99.0	99.0	72.9	26.08	3.796		
3,800.0	3,800.0	3,801.0	3,801.0	13.4	13.4	-90.23	-0.4	-99.0	99.0	72.2	26.80	3.694		
3,900.0	3,900.0	3,901.0	3,901.0	13.8	13.8	-90.23	-0.4	-99.0	99.0	71.5	27.51	3.598		
4,000.0	4,000.0	4,001.0	4,001.0	14.1	14.1	-90.23	-0.4	-99.0	99.0	70.8	28.23	3.507		
4,100.0	4,100.0	4,101.0	4,101.0	14.5	14.5	-90.23	-0.4	-99.0	99.0	70.1	28.95	3.420		
4,200.0	4,200.0	4,201.0	4,201.0	14.8	14.8	-90.23	-0.4	-99.0	99.0	69.3	29.67	3.337		
4,300.0	4,300.0	4,301.0	4,301.0	15.2	15.2	-90.23	-0.4	-99.0	99.0	68.6	30.38	3.259		
4,400.0	4,400.0	4,401.0	4,401.0	15.5	15.6	-90.23	-0.4	-99.0	99.0	67.9	31.10	3.183		
4,500.0	4,500.0	4,501.0	4,501.0	15.9	15.9	-90.23	-0.4	-99.0	99.0	67.2	31.82	3.112		
4,600.0	4,600.0	4,601.0	4,601.0	16.3	16.3	-90.23	-0.4	-99.0	99.0	66.5	32.53	3.043		
4,700.0	4,700.0	4,701.0	4,701.0	16.6	16.6	-90.23	-0.4	-99.0	99.0	65.8	33.25	2.977		
4,800.0	4,800.0	4,801.0	4,801.0	17.0	17.0	-90.23	-0.4	-99.0	99.0	65.0	33.97	2.915		
4,900.0	4,900.0	4,901.0	4,901.0	17.3	17.3	-90.23	-0.4	-99.0	99.0	64.3	34.68	2.854		
5,000.0	5,000.0	5,001.0	5,001.0	17.7	17.7	-90.23	-0.4	-99.0	99.0	63.6	35.40	2.797		
5,100.0	5,100.0	5,101.0	5,101.0	18.1	18.1	-90.23	-0.4	-99.0	99.0	62.9	36.12	2.741		
5,200.0	5,200.0	5,201.0	5,201.0	18.4	18.4	-90.23	-0.4	-99.0	99.0	62.2	36.83	2.688		
5,300.0	5,300.0	5,301.0	5,301.0	18.8	18.8	-90.23	-0.4	-99.0	99.0	61.4	37.55	2.636		
5,400.0	5,400.0	5,401.0	5,401.0	19.1	19.1	-90.23	-0.4	-99.0	99.0	60.7	38.27	2.587		
5,500.0	5,500.0	5,502.8	5,502.8	19.5	19.5	-148.55	-0.3	-98.1	98.8	59.9	38.97	2.536		
5,600.0	5,600.0	5,604.5	5,604.5	19.8	19.8	-149.18	0.0	-95.4	98.4	58.8	39.66	2.482		
5,700.0	5,699.9	5,706.2	5,706.1	20.2	20.2	-150.25	0.6	-90.9	97.7	57.4	40.33	2.424		
5,800.0	5,799.7	5,807.9	5,807.6	20.5	20.5	-151.76	1.3	-84.6	96.9	55.9	40.99	2.363		
5,900.0	5,899.4	5,909.5	5,908.9	20.9	20.9	-153.74	2.3	-76.5	95.9	54.2	41.64	2.302		
6,000.0	5,999.0	6,011.1	6,010.0	21.2	21.3	-155.97	3.5	-66.7	93.9	51.6	42.28	2.220		
6,100.0	6,098.6	6,112.6	6,110.8	21.6	21.6	-158.35	4.9	-55.1	90.3	47.3	42.91	2.103		
6,200.0	6,198.3	6,214.0	6,211.2	22.0	22.0	-161.04	6.5	-41.7	85.0	41.5	43.54	1.953		
6,300.0	6,297.9	6,315.1	6,311.2	22.3	22.3	-164.27	8.4	-26.6	78.3	34.1	44.15	1.773		
6,400.0	6,397.5	6,415.9	6,410.6	22.7	22.7	-168.41	10.4	-9.8	70.1	25.4	44.77	1.566		
6,500.0	6,497.1	6,516.3	6,509.3	23.0	23.1	-174.13	12.6	8.6	60.8	15.3	45.40	1.338 Level 3		
6,600.0	6,596.8	6,616.3	6,607.2	23.4	23.4	177.33	15.1	28.7	50.6	4.5	46.11	1.098 Level 2		
6,700.0	6,696.4	6,715.3	6,704.1	23.7	23.8	164.57	17.6	49.1	41.7	-5.3	47.01	0.886 Level 1		
6,800.0	6,796.0	6,814.4	6,801.0	24.1	24.2	146.40	20.0	69.6	35.7	-12.3	48.03	0.744 Level 1		
6,873.7	6,869.5	6,887.5	6,872.4	24.4	24.5	130.24	21.9	84.7	34.3	-14.5	48.77	0.703 Level 1, CC, SF		
6,900.0	6,895.7	6,913.5	6,897.8	24.5	24.6	124.35	22.5	90.1	34.5	-14.5	49.00	0.704 Level 1, ES		
7,000.0	6,995.3	7,012.5	6,994.7	24.8	24.9	103.85	25.0	110.5	38.4	-11.4	49.72	0.772 Level 1		
7,100.0	7,094.9	7,111.6	7,091.6	25.2	25.3	88.60	27.5	131.0	46.1	-4.2	50.29	0.917 Level 1		

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



Microsoft Anticollision Report



Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Merchant State Unit #603H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3710.5usft (H&P 466)
Reference Site:	(Merchant State)Sec35_T-21-S_R-33-E	MD Reference:	KB @ 3710.5usft (H&P 466)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Merchant State Unit #603H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 10_13
Reference Design:	Plan 0.1	Offset TVD Reference:	Offset Datum

Offset Design:(Merchant State)Sec35_T-21-S_R-33-E - Merchant State Unit #302H - OWB - Plan 0.1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference Offset (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
7,200.0	7,194.5	7,210.7	7,188.5	25.6	25.7	78.19	30.0	151.5	56.1	5.3	50.84	1.104	Level 2	
7,300.0	7,294.2	7,309.7	7,285.4	25.9	26.1	71.07	32.4	172.0	67.4	16.0	51.43	1.310	Level 3	
7,400.0	7,393.8	7,408.8	7,382.3	26.3	26.5	66.04	34.9	192.4	79.4	27.4	52.05	1.526		
7,500.0	7,493.4	7,507.9	7,479.2	26.6	26.9	62.35	37.4	212.9	91.9	39.2	52.70	1.743		
7,600.0	7,593.1	7,607.0	7,576.1	27.0	27.3	59.55	39.9	233.4	104.6	51.2	53.36	1.960		
7,700.0	7,692.7	7,706.0	7,673.0	27.4	27.7	57.36	42.4	253.9	117.6	63.5	54.04	2.175		
7,800.0	7,792.3	7,805.1	7,769.9	27.7	28.1	55.60	44.8	274.3	130.6	75.9	54.73	2.387		
7,900.0	7,892.0	7,904.2	7,866.8	28.1	28.6	54.16	47.3	294.8	143.8	88.4	55.42	2.595		
8,000.0	7,991.6	8,003.2	7,963.7	28.5	29.0	52.97	49.8	315.3	157.1	100.9	56.12	2.798		
8,100.0	8,091.2	8,102.3	8,060.6	28.8	29.4	51.96	52.3	335.7	170.4	113.5	56.82	2.998		
8,200.0	8,190.8	8,201.4	8,157.5	29.2	29.8	51.10	54.8	356.2	183.7	126.2	57.53	3.193		
8,300.0	8,290.5	8,300.4	8,254.4	29.6	30.2	50.36	57.2	376.7	197.1	138.8	58.24	3.384		
8,400.0	8,390.1	8,399.5	8,351.3	29.9	30.6	49.71	59.7	397.2	210.5	151.6	58.95	3.571		
8,500.0	8,489.7	8,498.6	8,448.2	30.3	31.1	49.13	62.2	417.6	223.9	164.3	59.67	3.753		
8,600.0	8,589.4	8,597.7	8,545.1	30.7	31.5	48.63	64.7	438.1	237.4	177.0	60.39	3.931		
8,700.0	8,689.0	8,696.7	8,642.0	31.0	31.9	48.17	67.2	458.6	250.9	189.8	61.11	4.106		
8,800.0	8,788.6	8,798.7	8,741.9	31.4	32.4	47.79	69.7	479.3	264.0	202.1	61.92	4.264		
8,900.0	8,888.3	8,902.6	8,843.9	31.8	32.8	47.58	72.0	498.6	275.6	212.8	62.76	4.390		
9,000.0	8,987.9	9,006.8	8,946.6	32.2	33.2	47.54	74.1	516.1	285.6	222.0	63.61	4.490		
9,100.0	9,087.7	9,111.2	9,049.8	32.5	33.7	47.45	76.1	531.8	295.0	230.5	64.43	4.578		
9,200.0	9,187.5	9,215.8	9,153.5	32.9	34.1	47.25	77.7	545.7	303.9	238.6	65.23	4.658		
9,300.0	9,287.5	9,320.7	9,257.7	33.2	34.5	46.95	79.2	557.7	312.2	246.2	66.02	4.729		
9,400.0	9,387.4	9,425.7	9,362.2	33.6	34.9	46.55	80.4	567.9	320.1	253.3	66.79	4.793		
9,500.0	9,487.4	9,531.0	9,467.1	34.0	35.3	104.17	81.4	576.1	327.4	259.8	67.54	4.847		
9,600.0	9,587.4	9,636.5	9,572.4	34.3	35.7	103.78	82.2	582.5	333.0	264.8	68.27	4.878		
9,700.0	9,687.4	9,742.2	9,678.0	34.7	36.1	103.51	82.7	586.9	337.0	268.0	68.99	4.884		
9,800.0	9,787.4	9,848.0	9,783.8	35.0	36.4	103.36	83.0	589.4	339.2	269.5	69.70	4.867		
9,900.0	9,887.4	9,952.6	9,888.4	35.4	36.8	103.32	83.1	590.0	339.7	269.3	70.40	4.826		
9,907.5	9,895.0	9,960.1	9,896.0	35.4	36.8	103.32	83.1	590.0	339.7	269.3	70.45	4.822		
10,000.0	9,987.4	10,050.0	9,985.8	35.7	37.1	103.38	82.8	590.0	339.8	268.7	71.11	4.779		
10,100.0	10,087.4	10,136.4	10,071.6	36.1	37.4	104.89	73.5	590.1	342.6	270.8	71.78	4.773		
10,200.0	10,187.4	10,218.3	10,150.8	36.4	37.6	108.17	52.8	590.2	350.2	277.9	72.32	4.843		
10,300.0	10,287.4	10,293.0	10,219.8	36.8	37.8	112.49	24.3	590.5	364.8	292.3	72.48	5.033		
10,400.0	10,387.4	10,359.3	10,277.4	37.1	38.0	117.12	-8.3	590.7	388.4	316.4	72.03	5.393		
10,500.0	10,487.4	10,416.9	10,324.3	37.5	38.1	121.52	-41.9	591.0	422.2	351.3	70.84	5.959		
10,600.0	10,587.4	10,466.7	10,361.7	37.8	38.2	125.42	-74.6	591.2	466.0	396.9	69.08	6.746		
10,700.0	10,687.4	10,500.0	10,385.2	38.2	38.3	128.03	-98.2	591.4	519.2	452.6	66.56	7.800		
10,800.0	10,787.4	10,550.0	10,417.8	38.6	38.4	131.85	-136.2	591.7	580.0	515.0	65.00	8.923		
10,900.0	10,887.4	10,577.6	10,434.3	38.9	38.4	133.88	-158.3	591.9	647.3	584.5	62.78	10.311		
11,000.0	10,987.4	10,600.0	10,446.9	39.3	38.5	135.48	-176.8	592.0	719.9	659.2	60.73	11.854		
11,100.0	11,087.4	10,628.8	10,462.0	39.6	38.5	137.46	-201.3	592.2	796.7	737.4	59.31	13.432		
11,200.0	11,187.4	10,650.0	10,472.3	40.0	38.6	138.87	-219.8	592.3	876.9	819.0	57.96	15.131		
11,300.0	11,287.4	10,668.0	10,480.5	40.3	38.6	140.02	-235.8	592.4	959.9	903.1	56.79	16.901		
11,400.0	11,387.4	10,700.0	10,493.9	40.7	38.6	-36.56	-264.9	592.7	1,045.4	989.1	56.27	18.577		
11,500.0	11,486.8	10,700.0	10,493.9	41.0	38.6	-28.78	-264.9	592.7	1,127.6	1,072.7	54.88	20.546		
11,600.0	11,582.7	10,722.7	10,502.5	41.3	38.7	-23.13	-286.0	592.8	1,203.2	1,149.1	54.01	22.277		
11,700.0	11,672.5	10,750.0	10,511.5	41.5	38.7	-19.41	-311.7	593.0	1,270.4	1,217.2	53.18	23.886		
11,800.0	11,753.2	10,771.1	10,517.7	41.7	38.8	-17.00	-331.8	593.2	1,328.1	1,275.8	52.25	25.419		
11,900.0	11,822.6	10,800.0	10,525.0	41.9	38.9	-15.31	-359.8	593.4	1,375.4	1,323.9	51.52	26.700		
12,000.0	11,878.3	10,825.1	10,530.2	42.1	38.9	-14.21	-384.4	593.6	1,411.7	1,360.9	50.84	27.769		
12,100.0	11,918.9	10,850.0	10,534.2	42.3	39.0	-13.53	-408.9	593.8	1,436.5	1,386.2	50.34	28.535		
12,200.0	11,943.0	10,882.0	10,537.9	42.6	39.1	-13.19	-440.7	594.0	1,449.4	1,399.3	50.12	28.919		

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



Microsoft Anticollision Report



Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Merchant State Unit #603H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3710.5usft (H&P 466)
Reference Site:	(Merchant State)Sec35_T-21-S_R-33-E	MD Reference:	KB @ 3710.5usft (H&P 466)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Merchant State Unit #603H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 10_13
Reference Design:	Plan 0.1	Offset TVD Reference:	Offset Datum

Offset Design:(Merchant State)Sec35_T-21-S_R-33-E - Merchant State Unit #302H - OWB - Plan 0.1														Offset Site Error:	0.0 usft
Survey Program: 0-MWD														Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Reference (usft)	Major Offset (usft)	Axis Highside Toolface (°)	Offset +N/-S (usft)	Wellbore +E/-W (usft)	Centre Between Centres (usft)	Distance Between Ellipses (usft)	Rule Assigned:	Minimum Separation (usft)	Separation Factor	Warning	
12,300.0	11,950.0	10,900.0	10,539.1	42.9	39.1	-13.16	-458.7	594.2	1,450.4	1,400.4		50.08	28.965		
12,374.4	11,950.0	10,935.3	10,540.0	43.1	39.2	-13.16	-493.9	594.4	1,449.1	1,398.8		50.27	28.825		
12,400.0	11,950.0	10,960.8	10,540.0	43.2	39.3	-13.16	-519.5	594.6	1,449.1	1,398.7		50.37	28.769		
12,500.0	11,950.0	11,060.8	10,540.0	43.6	39.7	-13.16	-619.5	595.4	1,449.1	1,398.3		50.79	28.531		
12,600.0	11,950.0	11,160.8	10,540.0	44.0	40.1	-13.16	-719.5	596.2	1,449.1	1,397.8		51.26	28.268		
12,700.0	11,950.0	11,260.8	10,540.0	44.5	40.7	-13.16	-819.5	596.9	1,449.1	1,397.3		51.79	27.982		
12,800.0	11,950.0	11,360.8	10,540.0	45.0	41.2	-13.16	-919.4	597.7	1,449.1	1,396.7		52.36	27.675		
12,900.0	11,950.0	11,460.8	10,540.0	45.6	41.9	-13.16	-1,019.4	598.5	1,449.1	1,396.1		52.98	27.349		
13,000.0	11,950.0	11,560.8	10,540.0	46.3	42.6	-13.16	-1,119.4	599.2	1,449.1	1,395.4		53.66	27.007		
13,100.0	11,950.0	11,660.8	10,540.0	47.0	43.3	-13.16	-1,219.4	600.0	1,449.1	1,394.7		54.37	26.652		
13,200.0	11,950.0	11,760.8	10,540.0	47.7	44.1	-13.16	-1,319.4	600.8	1,449.1	1,393.9		55.13	26.285		
13,300.0	11,950.0	11,860.8	10,540.0	48.5	45.0	-13.16	-1,419.4	601.5	1,449.1	1,393.1		55.93	25.908		
13,400.0	11,950.0	11,960.8	10,540.0	49.3	45.9	-13.16	-1,519.4	602.3	1,449.1	1,392.3		56.77	25.525		
13,500.0	11,950.0	12,060.8	10,540.0	50.2	46.8	-13.16	-1,619.4	603.1	1,449.1	1,391.4		57.65	25.136		
13,600.0	11,950.0	12,160.8	10,540.0	51.1	47.8	-13.16	-1,719.4	603.8	1,449.1	1,390.5		58.57	24.743		
13,700.0	11,950.0	12,260.8	10,540.0	52.1	48.8	-13.16	-1,819.4	604.6	1,449.1	1,389.6		59.51	24.348		
13,800.0	11,950.0	12,360.8	10,540.0	53.1	49.8	-13.16	-1,919.4	605.4	1,449.1	1,388.6		60.50	23.953		
13,900.0	11,950.0	12,460.8	10,540.0	54.1	50.9	-13.16	-2,019.4	606.1	1,449.1	1,387.6		61.51	23.558		
14,000.0	11,950.0	12,560.8	10,540.0	55.1	52.0	-13.16	-2,119.4	606.9	1,449.1	1,386.5		62.56	23.164		
14,100.0	11,950.0	12,660.8	10,540.0	56.2	53.1	-13.16	-2,219.4	607.7	1,449.1	1,385.4		63.63	22.774		
14,200.0	11,950.0	12,760.8	10,540.0	57.3	54.3	-13.16	-2,319.4	608.4	1,449.1	1,384.3		64.73	22.387		
14,300.0	11,950.0	12,860.8	10,540.0	58.4	55.5	-13.16	-2,419.4	609.2	1,449.1	1,383.2		65.85	22.004		
14,400.0	11,950.0	12,960.8	10,540.0	59.6	56.7	-13.16	-2,519.4	610.0	1,449.1	1,382.1		67.00	21.627		
14,500.0	11,950.0	13,060.8	10,540.0	60.8	57.9	-13.16	-2,619.4	610.7	1,449.1	1,380.9		68.18	21.255		
14,600.0	11,950.0	13,160.8	10,540.0	62.0	59.2	-13.16	-2,719.4	611.5	1,449.1	1,379.7		69.37	20.889		
14,700.0	11,950.0	13,260.8	10,540.0	63.2	60.4	-13.16	-2,819.4	612.3	1,449.1	1,378.5		70.59	20.529		
14,800.0	11,950.0	13,360.8	10,540.0	64.4	61.7	-13.16	-2,919.4	613.0	1,449.1	1,377.3		71.82	20.176		
14,900.0	11,950.0	13,460.8	10,540.0	65.7	63.0	-13.16	-3,019.4	613.8	1,449.1	1,376.0		73.08	19.830		
15,000.0	11,950.0	13,560.8	10,540.0	67.0	64.4	-13.16	-3,119.4	614.6	1,449.1	1,374.7		74.35	19.490		
15,100.0	11,950.0	13,660.8	10,540.0	68.2	65.7	-13.16	-3,219.4	615.3	1,449.1	1,373.4		75.64	19.158		
15,200.0	11,950.0	13,760.8	10,540.0	69.6	67.0	-13.16	-3,319.4	616.1	1,449.1	1,372.1		76.94	18.833		
15,300.0	11,950.0	13,860.8	10,540.0	70.9	68.4	-13.16	-3,419.4	616.9	1,449.1	1,370.8		78.26	18.515		
15,400.0	11,950.0	13,960.8	10,540.0	72.2	69.8	-13.16	-3,519.4	617.6	1,449.1	1,369.5		79.60	18.205		
15,500.0	11,950.0	14,060.8	10,540.0	73.6	71.2	-13.16	-3,619.4	618.4	1,449.1	1,368.1		80.95	17.902		
15,600.0	11,950.0	14,160.8	10,540.0	74.9	72.6	-13.16	-3,719.4	619.2	1,449.1	1,366.8		82.31	17.605		
15,700.0	11,950.0	14,260.8	10,540.0	76.3	74.0	-13.16	-3,819.4	619.9	1,449.1	1,365.4		83.68	17.316		
15,800.0	11,950.0	14,360.8	10,540.0	77.7	75.4	-13.16	-3,919.4	620.7	1,449.1	1,364.0		85.07	17.034		
15,900.0	11,950.0	14,460.8	10,540.0	79.1	76.9	-13.16	-4,019.4	621.5	1,449.1	1,362.6		86.47	16.759		
16,000.0	11,950.0	14,560.8	10,540.0	80.5	78.3	-13.16	-4,119.4	622.2	1,449.1	1,361.2		87.88	16.490		
16,100.0	11,950.0	14,660.8	10,540.0	81.9	79.7	-13.16	-4,219.4	623.0	1,449.1	1,359.8		89.29	16.228		
16,200.0	11,950.0	14,760.8	10,540.0	83.3	81.2	-13.16	-4,319.3	623.8	1,449.1	1,358.4		90.72	15.972		
16,300.0	11,950.0	14,860.8	10,540.0	84.7	82.7	-13.16	-4,419.3	624.5	1,449.1	1,356.9		92.16	15.723		
16,400.0	11,950.0	14,960.8	10,540.0	86.2	84.1	-13.16	-4,519.3	625.3	1,449.1	1,355.5		93.61	15.480		
16,500.0	11,950.0	15,060.8	10,540.0	87.6	85.6	-13.16	-4,619.3	626.1	1,449.1	1,354.0		95.06	15.243		
16,600.0	11,950.0	15,160.8	10,540.0	89.1	87.1	-13.16	-4,719.3	626.8	1,449.1	1,352.5		96.53	15.012		
16,700.0	11,950.0	15,260.8	10,540.0	90.5	88.6	-13.16	-4,819.3	627.6	1,449.1	1,351.1		98.00	14.787		
16,800.0	11,950.0	15,360.8	10,540.0	92.0	90.1	-13.16	-4,919.3	628.4	1,449.1	1,349.6		99.48	14.567		
16,900.0	11,950.0	15,460.8	10,540.0	93.5	91.6	-13.16	-5,019.3	629.1	1,449.1	1,348.1		100.96	14.352		
17,000.0	11,950.0	15,560.8	10,540.0	95.0	93.1	-13.16	-5,119.3	629.9	1,449.1	1,346.6		102.46	14.143		
17,100.0	11,950.0	15,660.8	10,540.0	96.5	94.6	-13.16	-5,219.3	630.7	1,449.1	1,345.1		103.96	13.939		
17,200.0	11,950.0	15,760.8	10,540.0	97.9	96.1	-13.16	-5,319.3	631.4	1,449.1	1,343.6		105.46	13.740		
17,300.0	11,950.0	15,860.8	10,540.0	99.4	97.6	-13.16	-5,419.3	632.2	1,449.1	1,342.1		106.97	13.546		

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



Microsoft Anticollision Report



Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Merchant State Unit #603H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3710.5usft (H&P 466)
Reference Site:	(Merchant State)Sec35_T-21-S_R-33-E	MD Reference:	KB @ 3710.5usft (H&P 466)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Merchant State Unit #603H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 10_13
Reference Design:	Plan 0.1	Offset TVD Reference:	Offset Datum

Offset Design:(Merchant State)Sec35_T-21-S_R-33-E - Merchant State Unit #302H - OWB - Plan 0.1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Reference Depth (usft)	Measured Depth (usft)	Vertical Offset Depth (usft)	Semi Major Axis Reference (usft)	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	
17,400.0	11,950.0	15,960.8	10,540.0	100.9	99.2	-13.16	-5,519.3	633.0	1,449.1	1,340.6	108.49	13.357		
17,500.0	11,950.0	16,060.8	10,540.0	102.4	100.7	-13.16	-5,619.3	633.7	1,449.1	1,339.1	110.01	13.172		
17,600.0	11,950.0	16,160.8	10,540.0	104.0	102.2	-13.16	-5,719.3	634.5	1,449.1	1,337.5	111.54	12.991		
17,700.0	11,950.0	16,260.8	10,540.0	105.5	103.8	-13.16	-5,819.3	635.3	1,449.1	1,336.0	113.07	12.815		
17,800.0	11,950.0	16,360.8	10,540.0	107.0	105.3	-13.16	-5,919.3	636.0	1,449.1	1,334.5	114.61	12.643		
17,900.0	11,950.0	16,460.8	10,540.0	108.5	106.9	-13.16	-6,019.3	636.8	1,449.1	1,332.9	116.15	12.475		
18,000.0	11,950.0	16,560.8	10,540.0	110.0	108.4	-13.16	-6,119.3	637.6	1,449.1	1,331.4	117.70	12.311		
18,100.0	11,950.0	16,660.8	10,540.0	111.6	110.0	-13.16	-6,219.3	638.3	1,449.1	1,329.8	119.25	12.151		
18,200.0	11,950.0	16,760.8	10,540.0	113.1	111.5	-13.16	-6,319.3	639.1	1,449.1	1,328.3	120.81	11.995		
18,300.0	11,950.0	16,860.8	10,540.0	114.6	113.1	-13.16	-6,419.3	639.9	1,449.1	1,326.7	122.37	11.842		
18,400.0	11,950.0	16,960.8	10,540.0	116.2	114.6	-13.16	-6,519.3	640.6	1,449.1	1,325.1	123.93	11.693		
18,500.0	11,950.0	17,060.8	10,540.0	117.7	116.2	-13.16	-6,619.3	641.4	1,449.1	1,323.6	125.50	11.547		
18,600.0	11,950.0	17,160.8	10,540.0	119.3	117.8	-13.16	-6,719.3	642.2	1,449.1	1,322.0	127.07	11.404		
18,700.0	11,950.0	17,260.8	10,540.0	120.8	119.3	-13.16	-6,819.3	643.0	1,449.1	1,320.4	128.64	11.264		
18,800.0	11,950.0	17,360.8	10,540.0	122.4	120.9	-13.16	-6,919.3	643.7	1,449.1	1,318.9	130.22	11.128		
18,900.0	11,950.0	17,460.8	10,540.0	123.9	122.5	-13.16	-7,019.3	644.5	1,449.1	1,317.3	131.80	10.995		
19,000.0	11,950.0	17,560.8	10,540.0	125.5	124.0	-13.16	-7,119.3	645.3	1,449.1	1,315.7	133.38	10.864		
19,100.0	11,950.0	17,660.8	10,540.0	127.1	125.6	-13.16	-7,219.3	646.0	1,449.1	1,314.1	134.97	10.736		
19,200.0	11,950.0	17,760.8	10,540.0	128.6	127.2	-13.16	-7,319.3	646.8	1,449.1	1,312.5	136.56	10.611		
19,300.0	11,950.0	17,860.8	10,540.0	130.2	128.8	-13.16	-7,419.3	647.6	1,449.1	1,310.9	138.15	10.489		
19,400.0	11,950.0	17,960.8	10,540.0	131.8	130.4	-13.16	-7,519.3	648.3	1,449.1	1,309.3	139.75	10.369		
19,500.0	11,950.0	18,060.8	10,540.0	133.3	131.9	-13.16	-7,619.3	649.1	1,449.1	1,307.7	141.34	10.252		
19,600.0	11,950.0	18,160.8	10,540.0	134.9	133.5	-13.16	-7,719.2	649.9	1,449.1	1,306.1	142.94	10.137		
19,700.0	11,950.0	18,260.8	10,540.0	136.5	135.1	-13.16	-7,819.2	650.6	1,449.1	1,304.5	144.54	10.025		
19,800.0	11,950.0	18,360.8	10,540.0	138.0	136.7	-13.16	-7,919.2	651.4	1,449.1	1,302.9	146.15	9.915		
19,900.0	11,950.0	18,460.8	10,540.0	139.6	138.3	-13.16	-8,019.2	652.2	1,449.1	1,301.3	147.76	9.807		
20,000.0	11,950.0	18,560.8	10,540.0	141.2	139.9	-13.16	-8,119.2	652.9	1,449.1	1,299.7	149.36	9.702		
20,100.0	11,950.0	18,660.8	10,540.0	142.8	141.5	-13.16	-8,219.2	653.7	1,449.1	1,298.1	150.98	9.598		
20,200.0	11,950.0	18,760.8	10,540.0	144.4	143.1	-13.16	-8,319.2	654.5	1,449.1	1,296.5	152.59	9.497		
20,300.0	11,950.0	18,860.8	10,540.0	145.9	144.7	-13.16	-8,419.2	655.2	1,449.1	1,294.9	154.20	9.397		
20,400.0	11,950.0	18,960.8	10,540.0	147.5	146.3	-13.16	-8,519.2	656.0	1,449.1	1,293.3	155.82	9.300		
20,500.0	11,950.0	19,060.8	10,540.0	149.1	147.9	-13.16	-8,619.2	656.8	1,449.1	1,291.6	157.44	9.204		
20,600.0	11,950.0	19,160.8	10,540.0	150.7	149.5	-13.16	-8,719.2	657.5	1,449.1	1,290.0	159.06	9.110		
20,700.0	11,950.0	19,260.8	10,540.0	152.3	151.1	-13.16	-8,819.2	658.3	1,449.1	1,288.4	160.68	9.018		
20,800.0	11,950.0	19,360.8	10,540.0	153.9	152.7	-13.16	-8,919.2	659.1	1,449.1	1,286.8	162.31	8.928		
20,900.0	11,950.0	19,460.8	10,540.0	155.5	154.3	-13.16	-9,019.2	659.8	1,449.1	1,285.1	163.93	8.839		
21,000.0	11,950.0	19,560.8	10,540.0	157.1	155.9	-13.16	-9,119.2	660.6	1,449.1	1,283.5	165.56	8.753		
21,100.0	11,950.0	19,660.8	10,540.0	158.7	157.5	-13.16	-9,219.2	661.4	1,449.1	1,281.9	167.19	8.667		
21,200.0	11,950.0	19,760.8	10,540.0	160.3	159.1	-13.16	-9,319.2	662.1	1,449.1	1,280.3	168.82	8.584		
21,300.0	11,950.0	19,860.8	10,540.0	161.9	160.7	-13.16	-9,419.2	662.9	1,449.1	1,278.6	170.45	8.501		
21,400.0	11,950.0	19,960.8	10,540.0	163.5	162.3	-13.16	-9,519.2	663.7	1,449.1	1,277.0	172.08	8.421		
21,500.0	11,950.0	20,060.8	10,540.0	165.1	163.9	-13.16	-9,619.2	664.4	1,449.1	1,275.4	173.72	8.342		
21,600.0	11,950.0	20,160.8	10,540.0	166.7	165.5	-13.16	-9,719.2	665.2	1,449.1	1,273.7	175.35	8.264		
21,700.0	11,950.0	20,260.8	10,540.0	168.3	167.1	-13.16	-9,819.2	666.0	1,449.1	1,272.1	176.99	8.187		
21,800.0	11,950.0	20,360.8	10,540.0	169.9	168.8	-13.16	-9,919.2	666.7	1,449.1	1,270.4	178.63	8.112		
21,900.0	11,950.0	20,460.8	10,540.0	171.5	170.4	-13.16	-10,019.2	667.5	1,449.1	1,268.8	180.27	8.038		
22,000.0	11,950.0	20,560.8	10,540.0	173.1	172.0	-13.16	-10,119.2	668.3	1,449.1	1,267.2	181.91	7.966		
22,100.0	11,950.0	20,660.8	10,540.0	174.7	173.6	-13.16	-10,219.2	669.0	1,449.1	1,265.5	183.55	7.895		
22,133.6	11,950.0	20,694.4	10,540.0	175.2	174.1	-13.16	-10,252.8	669.3	1,449.1	1,265.0	184.10	7.871		

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



Microsoft
Anticollision Report



Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Merchant State Unit #603H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3710.5usft (H&P 466)
Reference Site:	(Merchant State)Sec35_T-21-S_R-33-E	MD Reference:	KB @ 3710.5usft (H&P 466)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Merchant State Unit #603H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 10_13
Reference Design:	Plan 0.1	Offset TVD Reference:	Offset Datum

Offset Design:(Merchant State)Sec35_T-21-S_R-33-E - Merchant State Unit #510H - OWB - Plan 0.1														Offset Site Error:	0.0 usft
Survey Program: 0-MWD														Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-90.26	-0.3	-66.0	66.0						
100.0	100.0	100.0	100.0	0.1	0.1	-90.26	-0.3	-66.0	66.0	65.7	0.27	247.137			
200.0	200.0	200.0	200.0	0.5	0.5	-90.26	-0.3	-66.0	66.0	65.0	0.98	67.074			
300.0	300.0	300.0	300.0	0.9	0.9	-90.26	-0.3	-66.0	66.0	64.3	1.70	38.802			
400.0	400.0	400.0	400.0	1.2	1.2	-90.26	-0.3	-66.0	66.0	63.6	2.42	27.297			
500.0	500.0	500.0	500.0	1.6	1.6	-90.26	-0.3	-66.0	66.0	62.9	3.13	21.054			
600.0	600.0	600.0	600.0	1.9	1.9	-90.26	-0.3	-66.0	66.0	62.1	3.85	17.135			
700.0	700.0	700.0	700.0	2.3	2.3	-90.26	-0.3	-66.0	66.0	61.4	4.57	14.446			
800.0	800.0	800.0	800.0	2.6	2.6	-90.26	-0.3	-66.0	66.0	60.7	5.29	12.487			
900.0	900.0	900.0	900.0	3.0	3.0	-90.26	-0.3	-66.0	66.0	60.0	6.00	10.995			
1,000.0	1,000.0	1,000.0	1,000.0	3.4	3.4	-90.26	-0.3	-66.0	66.0	59.3	6.72	9.822			
1,100.0	1,100.0	1,100.0	1,100.0	3.7	3.7	-90.26	-0.3	-66.0	66.0	58.6	7.44	8.875			
1,200.0	1,200.0	1,200.0	1,200.0	4.1	4.1	-90.26	-0.3	-66.0	66.0	57.8	8.15	8.095			
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	-90.26	-0.3	-66.0	66.0	57.1	8.87	7.441			
1,400.0	1,400.0	1,400.0	1,400.0	4.8	4.8	-90.26	-0.3	-66.0	66.0	56.4	9.59	6.884			
1,500.0	1,500.0	1,500.0	1,500.0	5.2	5.2	-90.26	-0.3	-66.0	66.0	55.7	10.30	6.405			
1,600.0	1,600.0	1,600.0	1,600.0	5.5	5.5	-90.26	-0.3	-66.0	66.0	55.0	11.02	5.989			
1,700.0	1,700.0	1,700.0	1,700.0	5.9	5.9	-90.26	-0.3	-66.0	66.0	54.3	11.74	5.623			
1,800.0	1,800.0	1,800.0	1,800.0	6.2	6.2	-90.26	-0.3	-66.0	66.0	53.5	12.46	5.299			
1,900.0	1,900.0	1,900.0	1,900.0	6.6	6.6	-90.26	-0.3	-66.0	66.0	52.8	13.17	5.011			
2,000.0	2,000.0	2,000.0	2,000.0	6.9	6.9	-90.26	-0.3	-66.0	66.0	52.1	13.89	4.752			
2,100.0	2,100.0	2,100.0	2,100.0	7.3	7.3	-90.26	-0.3	-66.0	66.0	51.4	14.61	4.519			
2,200.0	2,200.0	2,200.0	2,200.0	7.7	7.7	-90.26	-0.3	-66.0	66.0	50.7	15.32	4.307			
2,300.0	2,300.0	2,300.0	2,300.0	8.0	8.0	-90.26	-0.3	-66.0	66.0	50.0	16.04	4.115			
2,400.0	2,400.0	2,400.0	2,400.0	8.4	8.4	-90.26	-0.3	-66.0	66.0	49.2	16.76	3.939			
2,500.0	2,500.0	2,500.0	2,500.0	8.7	8.7	-90.26	-0.3	-66.0	66.0	48.5	17.47	3.777			
2,600.0	2,600.0	2,600.0	2,600.0	9.1	9.1	-90.26	-0.3	-66.0	66.0	47.8	18.19	3.628			
2,700.0	2,700.0	2,700.0	2,700.0	9.5	9.5	-90.26	-0.3	-66.0	66.0	47.1	18.91	3.491			
2,800.0	2,800.0	2,800.0	2,800.0	9.8	9.8	-90.26	-0.3	-66.0	66.0	46.4	19.62	3.363			
2,900.0	2,900.0	2,900.0	2,900.0	10.2	10.2	-90.26	-0.3	-66.0	66.0	45.7	20.34	3.245			
3,000.0	3,000.0	3,000.0	3,000.0	10.5	10.5	-90.26	-0.3	-66.0	66.0	44.9	21.06	3.134			
3,100.0	3,100.0	3,100.0	3,100.0	10.9	10.9	-90.26	-0.3	-66.0	66.0	44.2	21.78	3.031			
3,200.0	3,200.0	3,200.0	3,200.0	11.2	11.2	-90.26	-0.3	-66.0	66.0	43.5	22.49	2.934			
3,300.0	3,300.0	3,300.0	3,300.0	11.6	11.6	-90.26	-0.3	-66.0	66.0	42.8	23.21	2.844			
3,400.0	3,400.0	3,400.0	3,400.0	12.0	12.0	-90.26	-0.3	-66.0	66.0	42.1	23.93	2.759			
3,500.0	3,500.0	3,500.0	3,500.0	12.3	12.3	-90.26	-0.3	-66.0	66.0	41.4	24.64	2.678			
3,600.0	3,600.0	3,600.0	3,600.0	12.7	12.7	-90.26	-0.3	-66.0	66.0	40.6	25.36	2.603			
3,700.0	3,700.0	3,700.0	3,700.0	13.0	13.0	-90.26	-0.3	-66.0	66.0	39.9	26.08	2.531			
3,800.0	3,800.0	3,800.0	3,800.0	13.4	13.4	-90.26	-0.3	-66.0	66.0	39.2	26.79	2.463			
3,900.0	3,900.0	3,900.0	3,900.0	13.8	13.8	-90.26	-0.3	-66.0	66.0	38.5	27.51	2.399			
4,000.0	4,000.0	4,000.0	4,000.0	14.1	14.1	-90.26	-0.3	-66.0	66.0	37.8	28.23	2.338			
4,100.0	4,100.0	4,100.0	4,100.0	14.5	14.5	-90.26	-0.3	-66.0	66.0	37.1	28.94	2.280			
4,200.0	4,200.0	4,200.0	4,200.0	14.8	14.8	-90.26	-0.3	-66.0	66.0	36.3	29.66	2.225			
4,300.0	4,300.0	4,300.0	4,300.0	15.2	15.2	-90.26	-0.3	-66.0	66.0	35.6	30.38	2.173			
4,400.0	4,400.0	4,400.0	4,400.0	15.5	15.5	-90.26	-0.3	-66.0	66.0	34.9	31.10	2.123			
4,500.0	4,500.0	4,500.0	4,500.0	15.9	15.9	-90.26	-0.3	-66.0	66.0	34.2	31.81	2.075			
4,600.0	4,600.0	4,600.0	4,600.0	16.3	16.3	-90.26	-0.3	-66.0	66.0	33.5	32.53	2.029			
4,700.0	4,700.0	4,700.0	4,700.0	16.6	16.6	-90.26	-0.3	-66.0	66.0	32.8	33.25	1.985			
4,800.0	4,800.0	4,800.0	4,800.0	17.0	17.0	-90.26	-0.3	-66.0	66.0	32.0	33.96	1.943			
4,900.0	4,900.0	4,900.0	4,900.0	17.3	17.3	-90.26	-0.3	-66.0	66.0	31.3	34.68	1.903			
5,000.0	5,000.0	5,000.0	5,000.0	17.7	17.7	-90.26	-0.3	-66.0	66.0	30.6	35.40	1.865			
5,100.0	5,100.0	5,100.0	5,100.0	18.1	18.1	-90.26	-0.3	-66.0	66.0	29.9	36.11	1.828			

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



Microsoft Anticollision Report



Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Merchant State Unit #603H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3710.5usft (H&P 466)
Reference Site:	(Merchant State)Sec35_T-21-S_R-33-E	MD Reference:	KB @ 3710.5usft (H&P 466)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Merchant State Unit #603H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 10_13
Reference Design:	Plan 0.1	Offset TVD Reference:	Offset Datum

Offset Design:(Merchant State)Sec35_T-21-S_R-33-E - Merchant State Unit #510H - OWB - Plan 0.1														Offset Site Error:	0.0 usft
Survey Program: 0-MWD														Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference Offset (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
5,200.0	5,200.0	5,200.0	5,200.0	18.4	18.4	-90.26	-0.3	-66.0	66.0	29.2	36.83	1.792			
5,300.0	5,300.0	5,300.0	5,300.0	18.8	18.8	-90.26	-0.3	-66.0	66.0	28.5	37.55	1.758			
5,400.0	5,400.0	5,400.0	5,400.0	19.1	19.1	-90.26	-0.3	-66.0	66.0	27.7	38.27	1.725 CC, ES			
5,500.0	5,500.0	5,499.9	5,499.9	19.5	19.5	-147.96	0.6	-66.0	66.8	27.8	38.98	1.713 SF			
5,600.0	5,600.0	5,599.8	5,599.8	19.8	19.8	-146.77	3.4	-66.2	69.1	29.5	39.68	1.742			
5,700.0	5,699.9	5,699.6	5,699.5	20.2	20.2	-144.97	8.1	-66.4	73.1	32.7	40.39	1.811			
5,800.0	5,799.7	5,799.3	5,798.9	20.5	20.6	-142.76	14.6	-66.6	78.8	37.7	41.09	1.918			
5,900.0	5,899.4	5,898.7	5,898.0	20.9	20.9	-140.35	22.9	-67.0	86.3	44.5	41.79	2.064			
6,000.0	5,999.0	5,998.0	5,996.8	21.2	21.3	-137.62	33.0	-67.4	94.8	52.3	42.49	2.230			
6,100.0	6,098.6	6,097.5	6,095.7	21.6	21.6	-135.10	43.5	-67.8	103.6	60.4	43.19	2.398			
6,200.0	6,198.3	6,197.0	6,194.7	22.0	22.0	-132.98	54.1	-68.3	112.5	68.6	43.90	2.563			
6,300.0	6,297.9	6,296.6	6,293.6	22.3	22.3	-131.17	64.6	-68.7	121.6	77.0	44.61	2.727			
6,400.0	6,397.5	6,396.1	6,392.6	22.7	22.7	-129.62	75.2	-69.2	130.8	85.5	45.31	2.887			
6,500.0	6,497.1	6,496.2	6,492.2	23.0	23.1	-128.39	85.4	-69.6	140.0	94.0	46.03	3.041			
6,600.0	6,596.8	6,596.8	6,592.4	23.4	23.4	-127.92	94.1	-69.9	148.6	101.8	46.76	3.177			
6,700.0	6,696.4	6,697.6	6,693.0	23.7	23.8	-128.14	100.8	-70.2	156.4	108.9	47.49	3.294			
6,800.0	6,796.0	6,798.5	6,793.7	24.1	24.2	-128.96	105.6	-70.4	163.6	115.4	48.21	3.393			
6,900.0	6,895.7	6,899.3	6,894.5	24.5	24.5	-130.32	108.6	-70.6	170.1	121.2	48.93	3.476			
7,000.0	6,995.3	7,000.0	6,995.2	24.8	24.9	-132.15	109.6	-70.6	176.1	126.5	49.65	3.547			
7,100.0	7,094.9	7,099.7	7,094.9	25.2	25.2	-134.16	109.6	-70.6	182.0	131.7	50.36	3.614			
7,200.0	7,194.5	7,199.3	7,194.5	25.6	25.6	-136.03	109.6	-70.6	188.1	137.1	51.07	3.684			
7,300.0	7,294.2	7,299.0	7,294.2	25.9	25.9	-137.79	109.6	-70.6	194.4	142.6	51.78	3.755			
7,400.0	7,393.8	7,398.6	7,393.8	26.3	26.3	-139.43	109.6	-70.6	200.9	148.4	52.49	3.827			
7,500.0	7,493.4	7,498.2	7,493.4	26.6	26.7	-140.98	109.6	-70.6	207.5	154.3	53.20	3.900			
7,600.0	7,593.1	7,597.8	7,593.1	27.0	27.0	-142.42	109.6	-70.6	214.3	160.3	53.91	3.974			
7,700.0	7,692.7	7,697.5	7,692.7	27.4	27.4	-143.78	109.6	-70.6	221.1	166.5	54.62	4.048			
7,800.0	7,792.3	7,797.1	7,792.3	27.7	27.7	-145.06	109.6	-70.6	228.1	172.8	55.34	4.123			
7,900.0	7,892.0	7,896.7	7,892.0	28.1	28.1	-146.25	109.6	-70.6	235.3	179.2	56.05	4.197			
8,000.0	7,991.6	7,996.4	7,991.6	28.5	28.4	-147.38	109.6	-70.6	242.5	185.7	56.76	4.272			
8,100.0	8,091.2	8,096.0	8,091.2	28.8	28.8	-148.44	109.6	-70.6	249.8	192.3	57.47	4.346			
8,200.0	8,190.8	8,195.6	8,190.8	29.2	29.2	-149.45	109.6	-70.6	257.1	198.9	58.18	4.419			
8,300.0	8,290.5	8,295.3	8,290.5	29.6	29.5	-150.39	109.6	-70.6	264.6	205.7	58.89	4.492			
8,400.0	8,390.1	8,394.9	8,390.1	29.9	29.9	-151.29	109.6	-70.6	272.1	212.5	59.61	4.565			
8,500.0	8,489.7	8,494.5	8,489.7	30.3	30.2	-152.13	109.6	-70.6	279.7	219.4	60.32	4.637			
8,600.0	8,589.4	8,594.1	8,589.4	30.7	30.6	-152.93	109.6	-70.6	287.3	226.3	61.03	4.708			
8,700.0	8,689.0	8,693.8	8,689.0	31.0	30.9	-153.69	109.6	-70.6	295.0	233.3	61.74	4.778			
8,800.0	8,788.6	8,793.4	8,788.6	31.4	31.3	-154.41	109.6	-70.6	302.7	240.3	62.46	4.847			
8,900.0	8,888.3	8,893.0	8,888.3	31.8	31.7	-155.10	109.6	-70.6	310.5	247.4	63.17	4.916			
9,000.0	8,987.9	8,992.7	8,987.9	32.2	32.0	-155.75	109.6	-70.6	318.2	254.3	63.88	4.981			
9,100.0	9,087.7	9,092.4	9,087.7	32.5	32.4	-156.27	109.6	-70.6	324.5	259.9	64.60	5.023			
9,200.0	9,187.5	9,192.3	9,187.5	32.9	32.7	-156.65	109.6	-70.6	329.2	263.9	65.31	5.041			
9,300.0	9,287.5	9,292.2	9,287.5	33.2	33.1	-156.90	109.6	-70.6	332.3	266.3	66.02	5.034			
9,400.0	9,387.4	9,392.2	9,387.4	33.6	33.4	-157.02	109.6	-70.6	333.9	267.1	66.74	5.003			
9,500.0	9,487.4	9,492.2	9,487.4	34.0	33.8	-98.92	109.6	-70.6	334.0	266.6	67.45	4.953			
9,600.0	9,587.4	9,592.2	9,587.4	34.3	34.2	-98.92	109.6	-70.6	334.0	265.9	68.16	4.901			
9,700.0	9,687.4	9,692.2	9,687.4	34.7	34.5	-98.92	109.6	-70.6	334.0	265.2	68.88	4.850			
9,800.0	9,787.4	9,792.2	9,787.4	35.0	34.9	-98.92	109.6	-70.6	334.0	264.5	69.59	4.800			
9,900.0	9,887.4	9,892.2	9,887.4	35.4	35.2	-98.92	109.6	-70.6	334.0	263.7	70.30	4.751			
10,000.0	9,987.4	9,992.2	9,987.4	35.7	35.6	-98.92	109.6	-70.6	334.0	263.0	71.02	4.704			
10,008.1	9,995.6	10,000.4	9,995.6	35.7	35.6	-98.92	109.6	-70.6	334.0	263.0	71.08	4.700			
10,100.0	10,087.4	10,090.6	10,085.8	36.1	35.9	-98.97	109.3	-70.6	334.1	262.4	71.72	4.658			
10,200.0	10,187.4	10,181.3	10,175.9	36.4	36.2	-100.68	99.2	-70.5	335.9	263.6	72.30	4.646			

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



Microsoft Anticollision Report



Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Merchant State Unit #603H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3710.5usft (H&P 466)
Reference Site:	(Merchant State)Sec35_T-21-S_R-33-E	MD Reference:	KB @ 3710.5usft (H&P 466)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Merchant State Unit #603H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 10_13
Reference Design:	Plan 0.1	Offset TVD Reference:	Offset Datum

Offset Design:(Merchant State)Sec35_T-21-S_R-33-E - Merchant State Unit #510H - OWB - Plan 0.1														Offset Site Error:	0.0 usft
Survey Program: 0-MWD														Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference Offset (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
10,300.0	10,287.4	10,266.9	10,258.3	36.8	36.5	-104.40	76.7	-70.3	341.7	269.0	72.71	4.699			
10,400.0	10,387.4	10,344.3	10,329.3	37.1	36.7	-109.30	46.0	-70.1	353.9	281.2	72.71	4.868			
10,500.0	10,487.4	10,412.3	10,387.8	37.5	36.9	-114.50	11.4	-69.8	375.3	303.3	72.02	5.211			
10,600.0	10,587.4	10,470.9	10,434.6	37.8	37.0	-119.39	-23.9	-69.6	407.3	336.8	70.55	5.773			
10,700.0	10,687.4	10,521.0	10,471.6	38.2	37.1	-123.68	-57.6	-69.3	450.1	381.7	68.48	6.573			
10,800.0	10,787.4	10,563.6	10,500.6	38.6	37.3	-127.30	-88.9	-69.1	502.8	436.7	66.11	7.605			
10,900.0	10,887.4	10,600.0	10,523.5	38.9	37.3	-130.31	-117.1	-68.9	563.7	500.0	63.75	8.843			
11,000.0	10,987.4	10,631.2	10,541.7	39.3	37.4	-132.81	-142.5	-68.7	631.4	569.8	61.56	10.257			
11,100.0	11,087.4	10,650.0	10,552.0	39.6	37.5	-134.26	-158.2	-68.5	704.6	645.3	59.32	11.877			
11,200.0	11,187.4	10,681.3	10,567.9	40.0	37.6	-136.60	-185.2	-68.3	781.9	723.9	58.01	13.479			
11,300.0	11,287.4	10,700.0	10,576.7	40.3	37.6	-137.94	-201.6	-68.2	862.7	806.1	56.60	15.243			
11,400.0	11,387.4	10,719.5	10,585.3	40.7	37.7	40.09	-219.1	-68.1	946.3	890.7	55.54	17.038			
11,500.0	11,486.8	10,750.0	10,597.6	41.0	37.8	30.61	-247.1	-67.9	1,027.7	972.9	54.81	18.751			
11,600.0	11,582.7	10,750.0	10,597.6	41.3	37.8	25.36	-247.1	-67.9	1,102.2	1,049.0	53.23	20.706			
11,700.0	11,672.5	10,800.0	10,614.4	41.5	37.9	20.94	-294.1	-67.5	1,168.9	1,116.1	52.81	22.132			
11,800.0	11,753.2	10,800.0	10,614.4	41.7	37.9	18.57	-294.1	-67.5	1,226.2	1,174.8	51.38	23.866			
11,900.0	11,822.6	10,850.0	10,627.1	41.9	38.0	16.56	-342.5	-67.1	1,273.4	1,222.5	50.92	25.007			
12,000.0	11,878.3	10,869.6	10,630.9	42.1	38.1	15.39	-361.7	-67.0	1,309.9	1,259.8	50.10	26.149			
12,100.0	11,918.9	10,900.0	10,635.5	42.3	38.2	14.61	-391.8	-66.7	1,335.3	1,285.7	49.60	26.923			
12,200.0	11,943.0	10,929.6	10,638.4	42.6	38.3	14.22	-421.2	-66.5	1,349.2	1,299.9	49.31	27.361			
12,300.0	11,950.0	10,960.0	10,639.8	42.9	38.4	14.15	-451.5	-66.3	1,351.4	1,302.1	49.28	27.423			
12,400.0	11,950.0	11,033.0	10,640.0	43.2	38.7	14.15	-524.5	-65.7	1,351.0	1,301.5	49.52	27.281			
12,405.0	11,950.0	11,038.0	10,640.0	43.2	38.7	14.15	-529.6	-65.7	1,351.0	1,301.5	49.54	27.272			
12,500.0	11,950.0	11,133.0	10,640.0	43.6	39.1	14.15	-624.5	-64.9	1,351.0	1,301.1	49.87	27.093			
12,600.0	11,950.0	11,233.0	10,640.0	44.0	39.5	14.15	-724.5	-64.2	1,351.0	1,300.7	50.27	26.876			
12,700.0	11,950.0	11,333.0	10,640.0	44.5	40.1	14.15	-824.5	-63.4	1,351.0	1,300.3	50.72	26.634			
12,800.0	11,950.0	11,433.0	10,640.0	45.0	40.7	14.15	-924.5	-62.6	1,351.0	1,299.8	51.24	26.368			
12,900.0	11,950.0	11,533.0	10,640.0	45.6	41.3	14.15	-1,024.5	-61.9	1,351.0	1,299.2	51.80	26.081			
13,000.0	11,950.0	11,633.0	10,640.0	46.3	42.0	14.15	-1,124.5	-61.1	1,351.0	1,298.6	52.41	25.776			
13,100.0	11,950.0	11,733.0	10,640.0	47.0	42.8	14.15	-1,224.5	-60.3	1,351.0	1,297.9	53.08	25.453			
13,200.0	11,950.0	11,833.0	10,640.0	47.7	43.6	14.15	-1,324.5	-59.5	1,351.0	1,297.2	53.79	25.117			
13,300.0	11,950.0	11,933.0	10,640.0	48.5	44.4	14.15	-1,424.5	-58.8	1,351.0	1,296.5	54.54	24.769			
13,400.0	11,950.0	12,033.0	10,640.0	49.3	45.3	14.15	-1,524.5	-58.0	1,351.0	1,295.7	55.34	24.411			
13,500.0	11,950.0	12,133.0	10,640.0	50.2	46.3	14.15	-1,624.5	-57.2	1,351.0	1,294.8	56.19	24.046			
13,600.0	11,950.0	12,233.0	10,640.0	51.1	47.3	14.15	-1,724.5	-56.5	1,351.0	1,293.9	57.07	23.675			
13,700.0	11,950.0	12,333.0	10,640.0	52.1	48.3	14.15	-1,824.5	-55.7	1,351.0	1,293.0	57.98	23.300			
13,800.0	11,950.0	12,433.0	10,640.0	53.1	49.3	14.15	-1,924.5	-54.9	1,351.0	1,292.1	58.94	22.922			
13,900.0	11,950.0	12,533.0	10,640.0	54.1	50.4	14.15	-2,024.5	-54.1	1,351.0	1,291.1	59.93	22.544			
14,000.0	11,950.0	12,633.0	10,640.0	55.1	51.5	14.15	-2,124.5	-53.4	1,351.0	1,290.1	60.95	22.166			
14,100.0	11,950.0	12,733.0	10,640.0	56.2	52.7	14.15	-2,224.5	-52.6	1,351.0	1,289.0	62.00	21.790			
14,200.0	11,950.0	12,833.0	10,640.0	57.3	53.8	14.15	-2,324.5	-51.8	1,351.0	1,287.9	63.08	21.416			
14,300.0	11,950.0	12,933.0	10,640.0	58.4	55.0	14.15	-2,424.5	-51.1	1,351.0	1,286.8	64.19	21.046			
14,400.0	11,950.0	13,033.0	10,640.0	59.6	56.2	14.15	-2,524.5	-50.3	1,351.0	1,285.7	65.33	20.680			
14,500.0	11,950.0	13,133.0	10,640.0	60.8	57.5	14.15	-2,624.5	-49.5	1,351.0	1,284.5	66.49	20.319			
14,600.0	11,950.0	13,233.0	10,640.0	62.0	58.8	14.15	-2,724.5	-48.8	1,351.0	1,283.3	67.68	19.963			
14,700.0	11,950.0	13,333.0	10,640.0	63.2	60.0	14.15	-2,824.5	-48.0	1,351.0	1,282.1	68.88	19.613			
14,800.0	11,950.0	13,433.0	10,640.0	64.4	61.3	14.15	-2,924.5	-47.2	1,351.0	1,280.9	70.11	19.269			
14,900.0	11,950.0	13,533.0	10,640.0	65.7	62.6	14.15	-3,024.5	-46.4	1,351.0	1,279.6	71.36	18.931			
15,000.0	11,950.0	13,633.0	10,640.0	67.0	64.0	14.15	-3,124.5	-45.7	1,351.0	1,278.4	72.63	18.600			
15,100.0	11,950.0	13,733.0	10,640.0	68.2	65.3	14.15	-3,224.5	-44.9	1,351.0	1,277.1	73.92	18.276			
15,200.0	11,950.0	13,833.0	10,640.0	69.6	66.7	14.15	-3,324.5	-44.1	1,351.0	1,275.8	75.22	17.959			
15,300.0	11,950.0	13,933.0	10,640.0	70.9	68.1	14.15	-3,424.5	-43.4	1,351.0	1,274.4	76.55	17.649			

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



Microsoft Anticollision Report



Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Merchant State Unit #603H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3710.5usft (H&P 466)
Reference Site:	(Merchant State)Sec35_T-21-S_R-33-E	MD Reference:	KB @ 3710.5usft (H&P 466)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Merchant State Unit #603H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 10_13
Reference Design:	Plan 0.1	Offset TVD Reference:	Offset Datum

Offset Design:(Merchant State)Sec35_T-21-S_R-33-E - Merchant State Unit #510H - OWB - Plan 0.1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
15,400.0	11,950.0	14,033.0	10,640.0	72.2	69.4	14.15	-3,524.4	-42.6	1,351.0	1,273.1	77.88	17.346		
15,500.0	11,950.0	14,133.0	10,640.0	73.6	70.8	14.15	-3,624.4	-41.8	1,351.0	1,271.8	79.23	17.050		
15,600.0	11,950.0	14,233.0	10,640.0	74.9	72.2	14.15	-3,724.4	-41.0	1,351.0	1,270.4	80.60	16.761		
15,700.0	11,950.0	14,333.0	10,640.0	76.3	73.7	14.15	-3,824.4	-40.3	1,351.0	1,269.0	81.98	16.479		
15,800.0	11,950.0	14,433.0	10,640.0	77.7	75.1	14.15	-3,924.4	-39.5	1,351.0	1,267.6	83.37	16.204		
15,900.0	11,950.0	14,533.0	10,640.0	79.1	76.5	14.15	-4,024.4	-38.7	1,351.0	1,266.2	84.78	15.936		
16,000.0	11,950.0	14,633.0	10,640.0	80.5	78.0	14.15	-4,124.4	-38.0	1,351.0	1,264.8	86.19	15.674		
16,100.0	11,950.0	14,733.0	10,640.0	81.9	79.4	14.15	-4,224.4	-37.2	1,351.0	1,263.4	87.62	15.419		
16,200.0	11,950.0	14,833.0	10,640.0	83.3	80.9	14.15	-4,324.4	-36.4	1,351.0	1,261.9	89.06	15.170		
16,300.0	11,950.0	14,933.0	10,640.0	84.7	82.4	14.15	-4,424.4	-35.7	1,351.0	1,260.5	90.50	14.928		
16,400.0	11,950.0	15,033.0	10,640.0	86.2	83.8	14.15	-4,524.4	-34.9	1,351.0	1,259.0	91.96	14.691		
16,500.0	11,950.0	15,133.0	10,640.0	87.6	85.3	14.15	-4,624.4	-34.1	1,351.0	1,257.6	93.42	14.461		
16,600.0	11,950.0	15,233.0	10,640.0	89.1	86.8	14.15	-4,724.4	-33.3	1,351.0	1,256.1	94.90	14.236		
16,700.0	11,950.0	15,333.0	10,640.0	90.5	88.3	14.15	-4,824.4	-32.6	1,351.0	1,254.6	96.38	14.017		
16,800.0	11,950.0	15,433.0	10,640.0	92.0	89.8	14.15	-4,924.4	-31.8	1,351.0	1,253.1	97.87	13.804		
16,900.0	11,950.0	15,533.0	10,640.0	93.5	91.3	14.15	-5,024.4	-31.0	1,351.0	1,251.6	99.37	13.596		
17,000.0	11,950.0	15,633.0	10,640.0	95.0	92.8	14.15	-5,124.4	-30.3	1,351.0	1,250.1	100.87	13.393		
17,100.0	11,950.0	15,733.0	10,640.0	96.5	94.3	14.15	-5,224.4	-29.5	1,351.0	1,248.6	102.38	13.195		
17,200.0	11,950.0	15,833.0	10,640.0	97.9	95.9	14.15	-5,324.4	-28.7	1,351.0	1,247.1	103.90	13.002		
17,300.0	11,950.0	15,933.0	10,640.0	99.4	97.4	14.15	-5,424.4	-27.9	1,351.0	1,245.5	105.43	12.814		
17,400.0	11,950.0	16,033.0	10,640.0	100.9	98.9	14.15	-5,524.4	-27.2	1,351.0	1,244.0	106.96	12.631		
17,500.0	11,950.0	16,133.0	10,640.0	102.4	100.5	14.15	-5,624.4	-26.4	1,351.0	1,242.5	108.49	12.452		
17,600.0	11,950.0	16,233.0	10,640.0	104.0	102.0	14.15	-5,724.4	-25.6	1,351.0	1,240.9	110.04	12.277		
17,700.0	11,950.0	16,333.0	10,640.0	105.5	103.5	14.15	-5,824.4	-24.9	1,351.0	1,239.4	111.58	12.107		
17,800.0	11,950.0	16,433.0	10,640.0	107.0	105.1	14.15	-5,924.4	-24.1	1,351.0	1,237.8	113.14	11.941		
17,900.0	11,950.0	16,533.0	10,640.0	108.5	106.6	14.15	-6,024.4	-23.3	1,351.0	1,236.3	114.69	11.779		
18,000.0	11,950.0	16,633.0	10,640.0	110.0	108.2	14.15	-6,124.4	-22.5	1,351.0	1,234.7	116.25	11.621		
18,100.0	11,950.0	16,733.0	10,640.0	111.6	109.7	14.15	-6,224.4	-21.8	1,351.0	1,233.1	117.82	11.466		
18,200.0	11,950.0	16,833.0	10,640.0	113.1	111.3	14.15	-6,324.4	-21.0	1,351.0	1,231.6	119.39	11.315		
18,300.0	11,950.0	16,933.0	10,640.0	114.6	112.8	14.14	-6,424.4	-20.2	1,351.0	1,230.0	120.97	11.168		
18,400.0	11,950.0	17,033.0	10,640.0	116.2	114.4	14.14	-6,524.4	-19.5	1,351.0	1,228.4	122.54	11.024		
18,500.0	11,950.0	17,133.0	10,640.0	117.7	116.0	14.14	-6,624.4	-18.7	1,351.0	1,226.8	124.13	10.884		
18,600.0	11,950.0	17,233.0	10,640.0	119.3	117.5	14.14	-6,724.4	-17.9	1,351.0	1,225.2	125.71	10.746		
18,700.0	11,950.0	17,333.0	10,640.0	120.8	119.1	14.14	-6,824.4	-17.2	1,351.0	1,223.7	127.30	10.612		
18,800.0	11,950.0	17,433.0	10,640.0	122.4	120.7	14.14	-6,924.3	-16.4	1,351.0	1,222.1	128.89	10.481		
18,900.0	11,950.0	17,533.0	10,640.0	123.9	122.3	14.14	-7,024.3	-15.6	1,351.0	1,220.5	130.49	10.353		
19,000.0	11,950.0	17,633.0	10,640.0	125.5	123.8	14.14	-7,124.3	-14.8	1,351.0	1,218.9	132.09	10.227		
19,100.0	11,950.0	17,733.0	10,640.0	127.1	125.4	14.14	-7,224.3	-14.1	1,351.0	1,217.3	133.69	10.105		
19,200.0	11,950.0	17,833.0	10,640.0	128.6	127.0	14.14	-7,324.3	-13.3	1,351.0	1,215.7	135.30	9.985		
19,300.0	11,950.0	17,933.0	10,640.0	130.2	128.6	14.14	-7,424.3	-12.5	1,351.0	1,214.0	136.91	9.868		
19,400.0	11,950.0	18,033.0	10,640.0	131.8	130.2	14.14	-7,524.3	-11.8	1,351.0	1,212.4	138.52	9.753		
19,500.0	11,950.0	18,133.0	10,640.0	133.3	131.7	14.14	-7,624.3	-11.0	1,350.9	1,210.8	140.13	9.641		
19,600.0	11,950.0	18,233.0	10,640.0	134.9	133.3	14.14	-7,724.3	-10.2	1,350.9	1,209.2	141.75	9.531		
19,700.0	11,950.0	18,333.0	10,640.0	136.5	134.9	14.14	-7,824.3	-9.4	1,350.9	1,207.6	143.37	9.423		
19,800.0	11,950.0	18,433.0	10,640.0	138.0	136.5	14.14	-7,924.3	-8.7	1,350.9	1,206.0	144.99	9.318		
19,900.0	11,950.0	18,533.0	10,640.0	139.6	138.1	14.14	-8,024.3	-7.9	1,350.9	1,204.3	146.61	9.214		
20,000.0	11,950.0	18,633.0	10,640.0	141.2	139.7	14.14	-8,124.3	-7.1	1,350.9	1,202.7	148.24	9.113		
20,100.0	11,950.0	18,733.0	10,640.0	142.8	141.3	14.14	-8,224.3	-6.4	1,350.9	1,201.1	149.86	9.014		
20,200.0	11,950.0	18,833.0	10,640.0	144.4	142.9	14.14	-8,324.3	-5.6	1,350.9	1,199.4	151.49	8.917		
20,300.0	11,950.0	18,933.0	10,640.0	145.9	144.5	14.14	-8,424.3	-4.8	1,350.9	1,197.8	153.13	8.822		
20,400.0	11,950.0	19,033.0	10,640.0	147.5	146.1	14.14	-8,524.3	-4.0	1,350.9	1,196.2	154.76	8.729		
20,500.0	11,950.0	19,133.0	10,640.0	149.1	147.7	14.14	-8,624.3	-3.3	1,350.9	1,194.5	156.40	8.638		

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



Microsoft
Anticollision Report



Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Merchant State Unit #603H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3710.5usft (H&P 466)
Reference Site:	(Merchant State)Sec35_T-21-S_R-33-E	MD Reference:	KB @ 3710.5usft (H&P 466)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Merchant State Unit #603H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 10_13
Reference Design:	Plan 0.1	Offset TVD Reference:	Offset Datum

Offset Design:(Merchant State)Sec35_T-21-S_R-33-E - Merchant State Unit #510H - OWB - Plan 0.1														Offset Site Error:	0.0 usft
Survey Program: 0-MWD														Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
20,600.0	11,950.0	19,233.0	10,640.0	150.7	149.3	14.14	-8,724.3	-2.5	1,350.9	1,192.9	158.03	8.548			
20,700.0	11,950.0	19,333.0	10,640.0	152.3	150.9	14.14	-8,824.3	-1.7	1,350.9	1,191.3	159.67	8.461			
20,800.0	11,950.0	19,433.0	10,640.0	153.9	152.5	14.14	-8,924.3	-1.0	1,350.9	1,189.6	161.31	8.375			
20,900.0	11,950.0	19,533.0	10,640.0	155.5	154.1	14.14	-9,024.3	-0.2	1,350.9	1,188.0	162.96	8.290			
21,000.0	11,950.0	19,633.0	10,640.0	157.1	155.7	14.14	-9,124.3	0.6	1,350.9	1,186.3	164.60	8.207			
21,100.0	11,950.0	19,733.0	10,640.0	158.7	157.3	14.14	-9,224.3	1.3	1,350.9	1,184.7	166.25	8.126			
21,200.0	11,950.0	19,833.0	10,640.0	160.3	158.9	14.14	-9,324.3	2.1	1,350.9	1,183.0	167.89	8.046			
21,300.0	11,950.0	19,933.0	10,640.0	161.9	160.5	14.14	-9,424.3	2.9	1,350.9	1,181.4	169.54	7.968			
21,400.0	11,950.0	20,033.0	10,640.0	163.5	162.2	14.14	-9,524.3	3.7	1,350.9	1,179.7	171.19	7.891			
21,500.0	11,950.0	20,133.0	10,640.0	165.1	163.8	14.14	-9,624.3	4.4	1,350.9	1,178.1	172.85	7.816			
21,600.0	11,950.0	20,233.0	10,640.0	166.7	165.4	14.14	-9,724.3	5.2	1,350.9	1,176.4	174.50	7.742			
21,700.0	11,950.0	20,333.0	10,640.0	168.3	167.0	14.14	-9,824.3	6.0	1,350.9	1,174.8	176.15	7.669			
21,800.0	11,950.0	20,433.0	10,640.0	169.9	168.6	14.14	-9,924.3	6.7	1,350.9	1,173.1	177.81	7.598			
21,900.0	11,950.0	20,533.0	10,640.0	171.5	170.2	14.14	-10,024.3	7.5	1,350.9	1,171.5	179.47	7.527			
22,000.0	11,950.0	20,633.0	10,640.0	173.1	171.8	14.14	-10,124.3	8.3	1,350.9	1,169.8	181.13	7.459			
22,100.0	11,950.0	20,733.0	10,640.0	174.7	173.5	14.14	-10,224.3	9.1	1,350.9	1,168.1	182.79	7.391			
22,132.0	11,950.0	20,765.0	10,640.0	175.2	174.0	14.14	-10,256.3	9.3	1,350.9	1,167.6	183.31	7.369			
22,133.6	11,950.0	20,765.0	10,640.0	175.2	174.0	14.14	-10,256.3	9.3	1,350.9	1,167.6	183.33	7.369			



Microsoft Anticollision Report



Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Merchant State Unit #603H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3710.5usft (H&P 466)
Reference Site:	(Merchant State)Sec35_T-21-S_R-33-E	MD Reference:	KB @ 3710.5usft (H&P 466)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Merchant State Unit #603H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 10_13
Reference Design:	Plan 0.1	Offset TVD Reference:	Offset Datum

Offset Design:(Merchant State)Sec35_T-21-S_R-33-E - Merchant State Unit #552H - OWB - Plan 0.1													Offset Site Error:	0.0 usft	
Survey Program: Reference		0-MWD		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	-90.17	-0.1	-33.0	33.0						
100.0	100.0	100.0	100.0	0.1	0.1	-90.17	-0.1	-33.0	33.0	32.7	0.27	123.568			
200.0	200.0	200.0	200.0	0.5	0.5	-90.17	-0.1	-33.0	33.0	32.0	0.98	33.537			
300.0	300.0	300.0	300.0	0.9	0.9	-90.17	-0.1	-33.0	33.0	31.3	1.70	19.401			
400.0	400.0	400.0	400.0	1.2	1.2	-90.17	-0.1	-33.0	33.0	30.6	2.42	13.648			
500.0	500.0	500.0	500.0	1.6	1.6	-90.17	-0.1	-33.0	33.0	29.9	3.13	10.527			
600.0	600.0	600.0	600.0	1.9	1.9	-90.17	-0.1	-33.0	33.0	29.1	3.85	8.568			
700.0	700.0	700.0	700.0	2.3	2.3	-90.17	-0.1	-33.0	33.0	28.4	4.57	7.223			
800.0	800.0	800.0	800.0	2.6	2.6	-90.17	-0.1	-33.0	33.0	27.7	5.29	6.243			
900.0	900.0	900.0	900.0	3.0	3.0	-90.17	-0.1	-33.0	33.0	27.0	6.00	5.498			
1,000.0	1,000.0	1,000.0	1,000.0	3.4	3.4	-90.17	-0.1	-33.0	33.0	26.3	6.72	4.911			
1,100.0	1,100.0	1,100.0	1,100.0	3.7	3.7	-90.17	-0.1	-33.0	33.0	25.6	7.44	4.438			
1,200.0	1,200.0	1,200.0	1,200.0	4.1	4.1	-90.17	-0.1	-33.0	33.0	24.8	8.15	4.047			
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	-90.17	-0.1	-33.0	33.0	24.1	8.87	3.720			
1,400.0	1,400.0	1,400.0	1,400.0	4.8	4.8	-90.17	-0.1	-33.0	33.0	23.4	9.59	3.442			
1,500.0	1,500.0	1,500.0	1,500.0	5.2	5.2	-90.17	-0.1	-33.0	33.0	22.7	10.30	3.203			
1,600.0	1,600.0	1,600.0	1,600.0	5.5	5.5	-90.17	-0.1	-33.0	33.0	22.0	11.02	2.994			
1,700.0	1,700.0	1,700.0	1,700.0	5.9	5.9	-90.17	-0.1	-33.0	33.0	21.3	11.74	2.811			
1,800.0	1,800.0	1,800.0	1,800.0	6.2	6.2	-90.17	-0.1	-33.0	33.0	20.5	12.46	2.650			
1,900.0	1,900.0	1,900.0	1,900.0	6.6	6.6	-90.17	-0.1	-33.0	33.0	19.8	13.17	2.505			
2,000.0	2,000.0	2,000.0	2,000.0	6.9	6.9	-90.17	-0.1	-33.0	33.0	19.1	13.89	2.376			
2,100.0	2,100.0	2,100.0	2,100.0	7.3	7.3	-90.17	-0.1	-33.0	33.0	18.4	14.61	2.259			
2,200.0	2,200.0	2,200.0	2,200.0	7.7	7.7	-90.17	-0.1	-33.0	33.0	17.7	15.32	2.154			
2,300.0	2,300.0	2,300.0	2,300.0	8.0	8.0	-90.17	-0.1	-33.0	33.0	17.0	16.04	2.057			
2,400.0	2,400.0	2,400.0	2,400.0	8.4	8.4	-90.17	-0.1	-33.0	33.0	16.2	16.76	1.969			
2,500.0	2,500.0	2,500.0	2,500.0	8.7	8.7	-90.17	-0.1	-33.0	33.0	15.5	17.47	1.889			
2,600.0	2,600.0	2,600.0	2,600.0	9.1	9.1	-90.17	-0.1	-33.0	33.0	14.8	18.19	1.814			
2,700.0	2,700.0	2,700.0	2,700.0	9.5	9.5	-90.17	-0.1	-33.0	33.0	14.1	18.91	1.745			
2,800.0	2,800.0	2,800.0	2,800.0	9.8	9.8	-90.17	-0.1	-33.0	33.0	13.4	19.62	1.682			
2,900.0	2,900.0	2,900.0	2,900.0	10.2	10.2	-90.17	-0.1	-33.0	33.0	12.7	20.34	1.622			
3,000.0	3,000.0	3,000.0	3,000.0	10.5	10.5	-90.17	-0.1	-33.0	33.0	11.9	21.06	1.567			
3,100.0	3,100.0	3,100.0	3,100.0	10.9	10.9	-90.17	-0.1	-33.0	33.0	11.2	21.78	1.515			
3,200.0	3,200.0	3,200.0	3,200.0	11.2	11.2	-90.17	-0.1	-33.0	33.0	10.5	22.49	1.467	Level 3		
3,300.0	3,300.0	3,300.0	3,300.0	11.6	11.6	-90.17	-0.1	-33.0	33.0	9.8	23.21	1.422	Level 3		
3,400.0	3,400.0	3,400.0	3,400.0	12.0	12.0	-90.17	-0.1	-33.0	33.0	9.1	23.93	1.379	Level 3		
3,500.0	3,500.0	3,500.0	3,500.0	12.3	12.3	-90.17	-0.1	-33.0	33.0	8.4	24.64	1.339	Level 3		
3,600.0	3,600.0	3,600.0	3,600.0	12.7	12.7	-90.17	-0.1	-33.0	33.0	7.6	25.36	1.301	Level 3		
3,700.0	3,700.0	3,700.0	3,700.0	13.0	13.0	-90.17	-0.1	-33.0	33.0	6.9	26.08	1.265	Level 3		
3,800.0	3,800.0	3,800.0	3,800.0	13.4	13.4	-90.17	-0.1	-33.0	33.0	6.2	26.79	1.232	Level 2		
3,900.0	3,900.0	3,900.0	3,900.0	13.8	13.8	-90.17	-0.1	-33.0	33.0	5.5	27.51	1.200	Level 2		
4,000.0	4,000.0	4,000.0	4,000.0	14.1	14.1	-90.17	-0.1	-33.0	33.0	4.8	28.23	1.169	Level 2		
4,100.0	4,100.0	4,100.0	4,100.0	14.5	14.5	-90.17	-0.1	-33.0	33.0	4.1	28.94	1.140	Level 2		
4,200.0	4,200.0	4,200.0	4,200.0	14.8	14.8	-90.17	-0.1	-33.0	33.0	3.3	29.66	1.113	Level 2		
4,300.0	4,300.0	4,300.0	4,300.0	15.2	15.2	-90.17	-0.1	-33.0	33.0	2.6	30.38	1.086	Level 2		
4,400.0	4,400.0	4,400.0	4,400.0	15.5	15.5	-90.17	-0.1	-33.0	33.0	1.9	31.10	1.061	Level 2		
4,500.0	4,500.0	4,500.0	4,500.0	15.9	15.9	-90.17	-0.1	-33.0	33.0	1.2	31.81	1.037	Level 2		
4,600.0	4,600.0	4,600.0	4,600.0	16.3	16.3	-90.17	-0.1	-33.0	33.0	0.5	32.53	1.014	Level 2		
4,700.0	4,700.0	4,700.0	4,700.0	16.6	16.6	-90.17	-0.1	-33.0	33.0	-0.2	33.25	0.993	Level 1		
4,800.0	4,800.0	4,800.0	4,800.0	17.0	17.0	-90.17	-0.1	-33.0	33.0	-1.0	33.96	0.972	Level 1		
4,900.0	4,900.0	4,900.0	4,900.0	17.3	17.3	-90.17	-0.1	-33.0	33.0	-1.7	34.68	0.952	Level 1		
5,000.0	5,000.0	5,000.0	5,000.0	17.7	17.7	-90.17	-0.1	-33.0	33.0	-2.4	35.40	0.932	Level 1		
5,100.0	5,100.0	5,100.0	5,100.0	18.1	18.1	-90.17	-0.1	-33.0	33.0	-3.1	36.11	0.914	Level 1		

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



Microsoft Anticollision Report



Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Merchant State Unit #603H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3710.5usft (H&P 466)
Reference Site:	(Merchant State)Sec35_T-21-S_R-33-E	MD Reference:	KB @ 3710.5usft (H&P 466)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Merchant State Unit #603H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 10_13
Reference Design:	Plan 0.1	Offset TVD Reference:	Offset Datum

Offset Design:(Merchant State)Sec35_T-21-S_R-33-E - Merchant State Unit #552H - OWB - Plan 0.1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Reference Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	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	
5,104.2	5,104.2	5,104.2	5,104.2	18.1	18.1	-90.17	-0.1	-33.0	33.0	-3.1	36.14	0.913	Level 1, CC	
5,200.0	5,200.0	5,199.9	5,199.9	18.4	18.4	-89.81	0.1	-33.0	33.1	-3.8	36.83	0.897	Level 1	
5,300.0	5,300.0	5,299.8	5,299.8	18.8	18.8	-86.91	1.8	-33.4	33.5	-4.0	37.55	0.892	Level 1, ES, SF	
5,400.0	5,400.0	5,399.5	5,399.4	19.1	19.1	-81.39	5.2	-34.2	34.6	-3.6	38.26	0.905	Level 1	
5,500.0	5,500.0	5,499.1	5,498.9	19.5	19.5	-132.94	10.3	-35.4	37.5	-1.5	38.96	0.962	Level 1	
5,600.0	5,600.0	5,598.5	5,598.1	19.8	19.8	-127.29	17.0	-37.0	42.8	3.2	39.64	1.080	Level 2	
5,700.0	5,699.9	5,697.7	5,696.9	20.2	20.2	-123.01	25.4	-39.0	50.4	10.1	40.32	1.251	Level 3	
5,800.0	5,799.7	5,797.0	5,795.6	20.5	20.5	-120.22	35.2	-41.3	60.1	19.1	41.00	1.466	Level 3	
5,900.0	5,899.4	5,896.4	5,894.5	20.9	20.9	-119.31	45.1	-43.7	70.8	29.1	41.71	1.698		
6,000.0	5,999.0	5,995.8	5,993.3	21.2	21.3	-119.18	55.1	-46.0	81.9	39.5	42.41	1.932		
6,100.0	6,098.6	6,095.1	6,092.2	21.6	21.6	-119.08	65.1	-48.3	93.0	49.9	43.12	2.158		
6,200.0	6,198.3	6,194.5	6,191.1	22.0	22.0	-119.00	75.1	-50.7	104.1	60.3	43.83	2.376		
6,300.0	6,297.9	6,293.9	6,289.9	22.3	22.3	-118.94	85.0	-53.0	115.2	70.7	44.54	2.587		
6,400.0	6,397.5	6,393.3	6,388.8	22.7	22.7	-118.89	95.0	-55.4	126.3	81.1	45.25	2.792		
6,500.0	6,497.1	6,492.7	6,487.6	23.0	23.1	-118.84	105.0	-57.7	137.4	91.5	45.96	2.990		
6,600.0	6,596.8	6,592.0	6,586.5	23.4	23.4	-118.81	115.0	-60.1	148.5	101.9	46.68	3.182		
6,700.0	6,696.4	6,691.4	6,685.3	23.7	23.8	-118.77	124.9	-62.4	159.6	112.3	47.39	3.369		
6,800.0	6,796.0	6,791.8	6,785.2	24.1	24.2	-118.80	134.8	-64.8	170.6	122.5	48.13	3.545		
6,900.0	6,895.7	6,893.4	6,886.4	24.5	24.5	-119.20	143.2	-66.7	180.5	131.6	48.88	3.693		
7,000.0	6,995.3	6,995.2	6,988.0	24.8	24.9	-119.97	149.9	-68.3	189.3	139.6	49.62	3.814		
7,100.0	7,094.9	7,097.1	7,089.7	25.2	25.3	-121.07	154.9	-69.5	196.9	146.5	50.36	3.910		
7,200.0	7,194.5	7,199.0	7,191.6	25.6	25.6	-122.48	158.1	-70.2	203.5	152.4	51.09	3.982		
7,300.0	7,294.2	7,300.9	7,293.5	25.9	26.0	-124.19	159.5	-70.6	209.1	157.3	51.82	4.035		
7,400.0	7,393.8	7,401.2	7,393.8	26.3	26.4	-126.09	159.6	-70.6	214.1	161.6	52.54	4.076		
7,500.0	7,493.4	7,500.9	7,493.4	26.6	26.7	-127.90	159.6	-70.6	219.3	166.1	53.25	4.118		
7,600.0	7,593.1	7,600.5	7,593.1	27.0	27.1	-129.63	159.6	-70.6	224.7	170.7	53.96	4.164		
7,700.0	7,692.7	7,700.1	7,692.7	27.4	27.4	-131.27	159.6	-70.6	230.3	175.6	54.68	4.212		
7,800.0	7,792.3	7,799.8	7,792.3	27.7	27.8	-132.84	159.6	-70.6	236.1	180.7	55.39	4.262		
7,900.0	7,892.0	7,899.4	7,892.0	28.1	28.1	-134.33	159.6	-70.6	242.0	185.9	56.10	4.314		
8,000.0	7,991.6	7,999.0	7,991.6	28.5	28.5	-135.75	159.6	-70.6	248.1	191.3	56.82	4.367		
8,100.0	8,091.2	8,098.6	8,091.2	28.8	28.9	-137.10	159.6	-70.6	254.3	196.8	57.53	4.421		
8,200.0	8,190.8	8,198.3	8,190.8	29.2	29.2	-138.38	159.6	-70.6	260.7	202.5	58.24	4.476		
8,300.0	8,290.5	8,297.9	8,290.5	29.6	29.6	-139.60	159.6	-70.6	267.2	208.3	58.96	4.533		
8,400.0	8,390.1	8,397.5	8,390.1	29.9	29.9	-140.77	159.6	-70.6	273.8	214.2	59.67	4.589		
8,500.0	8,489.7	8,497.2	8,489.7	30.3	30.3	-141.88	159.6	-70.6	280.6	220.2	60.38	4.646		
8,600.0	8,589.4	8,596.8	8,589.4	30.7	30.6	-142.93	159.6	-70.6	287.4	226.3	61.09	4.704		
8,700.0	8,689.0	8,696.4	8,689.0	31.0	31.0	-143.94	159.6	-70.6	294.3	232.5	61.81	4.762		
8,800.0	8,788.6	8,796.0	8,788.6	31.4	31.3	-144.90	159.6	-70.6	301.3	238.8	62.52	4.819		
8,900.0	8,888.3	8,895.7	8,888.3	31.8	31.7	-145.82	159.6	-70.6	308.4	245.2	63.23	4.877		
9,000.0	8,987.9	8,995.3	8,987.9	32.2	32.1	-146.70	159.6	-70.6	315.4	251.4	63.95	4.932		
9,100.0	9,087.7	9,095.1	9,087.7	32.5	32.4	-147.40	159.6	-70.6	321.2	256.5	64.66	4.967		
9,200.0	9,187.5	9,195.0	9,187.5	32.9	32.8	-147.91	159.6	-70.6	325.5	260.2	65.37	4.980		
9,300.0	9,287.5	9,294.9	9,287.5	33.2	33.1	-148.25	159.6	-70.6	328.4	262.3	66.08	4.970		
9,400.0	9,387.4	9,394.9	9,387.4	33.6	33.5	-148.41	159.6	-70.6	329.9	263.1	66.80	4.938		
9,500.0	9,487.4	9,494.9	9,487.4	34.0	33.8	-90.31	159.6	-70.6	330.0	262.5	67.51	4.888		
9,600.0	9,587.4	9,594.9	9,587.4	34.3	34.2	-90.31	159.6	-70.6	330.0	261.8	68.22	4.837		
9,700.0	9,687.4	9,694.9	9,687.4	34.7	34.6	-90.31	159.6	-70.6	330.0	261.1	68.93	4.787		
9,800.0	9,787.4	9,794.9	9,787.4	35.0	34.9	-90.31	159.6	-70.6	330.0	260.4	69.65	4.738		
9,900.0	9,887.4	9,894.9	9,887.4	35.4	35.3	-90.31	159.6	-70.6	330.0	259.6	70.36	4.690		
10,000.0	9,987.4	9,994.9	9,987.4	35.7	35.6	-90.31	159.6	-70.6	330.0	258.9	71.07	4.643		
10,100.0	10,087.4	10,094.9	10,087.4	36.1	36.0	-90.31	159.6	-70.6	330.0	258.2	71.79	4.597		
10,200.0	10,187.4	10,194.9	10,187.4	36.4	36.3	-90.31	159.6	-70.6	330.0	257.5	72.50	4.552		

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



Microsoft Anticollision Report



Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Merchant State Unit #603H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3710.5usft (H&P 466)
Reference Site:	(Merchant State)Sec35_T-21-S_R-33-E	MD Reference:	KB @ 3710.5usft (H&P 466)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Merchant State Unit #603H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 10_13
Reference Design:	Plan 0.1	Offset TVD Reference:	Offset Datum

Offset Design:(Merchant State)Sec35_T-21-S_R-33-E - Merchant State Unit #552H - OWB - Plan 0.1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
10,300.0	10,287.4	10,294.9	10,287.4	36.8	36.7	-90.31	159.6	-70.6	330.0	256.8	73.21	4.507		
10,400.0	10,387.4	10,394.9	10,387.4	37.1	37.1	-90.31	159.6	-70.6	330.0	256.1	73.93	4.464		
10,500.0	10,487.4	10,494.9	10,487.4	37.5	37.4	-90.31	159.6	-70.6	330.0	255.4	74.64	4.421		
10,600.0	10,587.4	10,594.9	10,587.4	37.8	37.8	-90.31	159.6	-70.6	330.0	254.7	75.35	4.379		
10,700.0	10,687.4	10,694.9	10,687.4	38.2	38.1	-90.31	159.6	-70.6	330.0	253.9	76.07	4.338		
10,800.0	10,787.4	10,794.9	10,787.5	38.6	38.5	-90.38	159.2	-70.6	330.0	253.2	76.78	4.298		
10,808.5	10,795.9	10,803.4	10,795.9	38.6	38.5	-90.44	158.9	-70.6	330.0	253.2	76.83	4.295		
10,900.0	10,887.4	10,893.3	10,885.0	38.9	38.8	-92.44	147.3	-70.5	330.2	252.8	77.42	4.265		
11,000.0	10,987.4	10,985.1	10,973.0	39.3	39.0	-96.93	121.3	-70.3	332.5	254.5	77.96	4.264		
11,100.0	11,087.4	11,066.9	11,047.0	39.6	39.3	-102.80	86.6	-70.0	340.3	262.1	78.15	4.354		
11,200.0	11,187.4	11,137.5	11,106.3	40.0	39.4	-108.95	48.4	-69.7	357.4	279.8	77.59	4.606		
11,300.0	11,287.4	11,200.0	11,154.5	40.3	39.6	-114.91	8.7	-69.4	386.2	310.0	76.18	5.069		
11,400.0	11,387.4	11,250.0	11,189.8	40.7	39.7	60.19	-26.7	-69.2	427.0	353.2	73.87	5.781		
11,500.0	11,486.8	11,300.0	11,221.9	41.0	39.8	51.76	-65.0	-68.9	473.9	402.5	71.36	6.640		
11,600.0	11,582.7	11,350.0	11,250.5	41.3	39.9	44.93	-106.0	-68.6	520.2	451.4	68.82	7.560		
11,700.0	11,672.5	11,400.0	11,275.5	41.5	40.0	39.63	-149.3	-68.2	563.6	497.2	66.37	8.492		
11,800.0	11,753.2	11,438.2	11,291.9	41.7	40.1	35.95	-183.7	-68.0	602.0	538.3	63.67	9.455		
11,900.0	11,822.6	11,486.4	11,309.4	41.9	40.3	32.96	-228.6	-67.6	634.7	573.0	61.68	10.289		
12,000.0	11,878.3	11,534.6	11,323.0	42.1	40.4	30.83	-274.9	-67.3	660.6	600.5	60.09	10.994		
12,100.0	11,918.9	11,583.0	11,332.7	42.3	40.5	29.42	-322.3	-66.9	679.3	620.3	58.96	11.520		
12,200.0	11,943.0	11,631.4	11,338.3	42.6	40.7	28.64	-370.4	-66.5	690.3	631.9	58.39	11.824		
12,300.0	11,950.0	11,685.6	11,340.0	42.9	40.8	28.41	-424.5	-66.1	693.5	635.1	58.40	11.875		
12,400.0	11,950.0	11,785.6	11,340.0	43.2	41.1	28.41	-524.5	-65.4	693.5	634.8	58.76	11.802		
12,500.0	11,950.0	11,885.6	11,340.0	43.6	41.5	28.41	-624.5	-64.6	693.5	634.3	59.20	11.716		
12,600.0	11,950.0	11,985.6	11,340.0	44.0	42.0	28.41	-724.5	-63.8	693.5	633.8	59.70	11.618		
12,700.0	11,950.0	12,085.6	11,340.0	44.5	42.5	28.41	-824.5	-63.1	693.5	633.3	60.27	11.508		
12,800.0	11,950.0	12,185.6	11,340.0	45.0	43.0	28.41	-924.5	-62.3	693.5	632.6	60.90	11.388		
12,900.0	11,950.0	12,285.6	11,340.0	45.6	43.7	28.41	-1,024.5	-61.5	693.5	631.9	61.60	11.258		
13,000.0	11,950.0	12,385.6	11,340.0	46.3	44.3	28.41	-1,124.5	-60.7	693.5	631.2	62.37	11.121		
13,100.0	11,950.0	12,485.6	11,340.0	47.0	45.1	28.41	-1,224.5	-60.0	693.5	630.4	63.19	10.976		
13,200.0	11,950.0	12,585.6	11,340.0	47.7	45.8	28.41	-1,324.5	-59.2	693.5	629.5	64.07	10.825		
13,300.0	11,950.0	12,685.6	11,340.0	48.5	46.7	28.41	-1,424.5	-58.4	693.5	628.5	65.01	10.669		
13,400.0	11,950.0	12,785.6	11,340.0	49.3	47.5	28.41	-1,524.5	-57.7	693.5	627.5	66.00	10.509		
13,500.0	11,950.0	12,885.6	11,340.0	50.2	48.4	28.41	-1,624.5	-56.9	693.5	626.5	67.04	10.346		
13,600.0	11,950.0	12,985.6	11,340.0	51.1	49.4	28.41	-1,724.5	-56.1	693.5	625.4	68.13	10.180		
13,700.0	11,950.0	13,085.6	11,340.0	52.1	50.4	28.41	-1,824.5	-55.4	693.5	624.3	69.26	10.013		
13,800.0	11,950.0	13,185.6	11,340.0	53.1	51.4	28.41	-1,924.5	-54.6	693.5	623.1	70.44	9.846		
13,900.0	11,950.0	13,285.6	11,340.0	54.1	52.4	28.41	-2,024.5	-53.8	693.5	621.9	71.66	9.678		
14,000.0	11,950.0	13,385.6	11,340.0	55.1	53.5	28.41	-2,124.5	-53.1	693.5	620.6	72.92	9.510		
14,100.0	11,950.0	13,485.6	11,340.0	56.2	54.6	28.41	-2,224.5	-52.3	693.5	619.3	74.22	9.344		
14,200.0	11,950.0	13,585.6	11,340.0	57.3	55.8	28.41	-2,324.5	-51.5	693.5	618.0	75.56	9.179		
14,300.0	11,950.0	13,685.6	11,340.0	58.4	56.9	28.41	-2,424.5	-50.8	693.5	616.6	76.92	9.016		
14,400.0	11,950.0	13,785.6	11,340.0	59.6	58.1	28.41	-2,524.5	-50.0	693.5	615.2	78.33	8.855		
14,500.0	11,950.0	13,885.6	11,340.0	60.8	59.3	28.41	-2,624.5	-49.2	693.5	613.8	79.76	8.696		
14,600.0	11,950.0	13,985.6	11,340.0	62.0	60.5	28.41	-2,724.5	-48.5	693.5	612.3	81.21	8.540		
14,700.0	11,950.0	14,085.6	11,340.0	63.2	61.8	28.41	-2,824.5	-47.7	693.5	610.8	82.70	8.386		
14,800.0	11,950.0	14,185.6	11,340.0	64.4	63.1	28.41	-2,924.4	-46.9	693.5	609.3	84.21	8.235		
14,900.0	11,950.0	14,285.6	11,340.0	65.7	64.3	28.41	-3,024.4	-46.2	693.5	607.8	85.75	8.088		
15,000.0	11,950.0	14,385.6	11,340.0	67.0	65.6	28.41	-3,124.4	-45.4	693.5	606.2	87.31	7.943		
15,100.0	11,950.0	14,485.6	11,340.0	68.2	67.0	28.41	-3,224.4	-44.6	693.5	604.6	88.89	7.802		
15,200.0	11,950.0	14,585.6	11,340.0	69.6	68.3	28.41	-3,324.4	-43.9	693.5	603.0	90.50	7.664		
15,300.0	11,950.0	14,685.6	11,340.0	70.9	69.6	28.41	-3,424.4	-43.1	693.5	601.4	92.12	7.529		

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Reference Site:	(Merchant State)Sec35_T-21-S_R-33-E	MD Reference:	KB @ 3710.5usft (H&P 466)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Merchant State Unit #603H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 10_13
Reference Design:	Plan 0.1	Offset TVD Reference:	Offset Datum

Offset Design:(Merchant State)Sec35_T-21-S_R-33-E - Merchant State Unit #552H - OWB - Plan 0.1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference Offset (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
15,400.0	11,950.0	14,785.6	11,340.0	72.2	71.0	28.41	-3,524.4	-42.3	693.5	599.8	93.76	7.397		
15,500.0	11,950.0	14,885.6	11,340.0	73.6	72.4	28.41	-3,624.4	-41.6	693.5	598.1	95.42	7.268		
15,600.0	11,950.0	14,985.6	11,340.0	74.9	73.7	28.41	-3,724.4	-40.8	693.5	596.4	97.09	7.143		
15,700.0	11,950.0	15,085.6	11,340.0	76.3	75.1	28.41	-3,824.4	-40.0	693.5	594.8	98.79	7.021		
15,800.0	11,950.0	15,185.6	11,340.0	77.7	76.5	28.41	-3,924.4	-39.3	693.5	593.0	100.49	6.901		
15,900.0	11,950.0	15,285.6	11,340.0	79.1	78.0	28.41	-4,024.4	-38.5	693.5	591.3	102.21	6.785		
16,000.0	11,950.0	15,385.6	11,340.0	80.5	79.4	28.41	-4,124.4	-37.7	693.5	589.6	103.95	6.672		
16,100.0	11,950.0	15,485.6	11,340.0	81.9	80.8	28.41	-4,224.4	-37.0	693.5	587.8	105.70	6.562		
16,200.0	11,950.0	15,585.6	11,340.0	83.3	82.3	28.41	-4,324.4	-36.2	693.5	586.1	107.46	6.454		
16,300.0	11,950.0	15,685.6	11,340.0	84.7	83.7	28.41	-4,424.4	-35.4	693.5	584.3	109.23	6.349		
16,400.0	11,950.0	15,785.6	11,340.0	86.2	85.2	28.41	-4,524.4	-34.7	693.5	582.5	111.01	6.247		
16,500.0	11,950.0	15,885.6	11,340.0	87.6	86.6	28.41	-4,624.4	-33.9	693.5	580.7	112.81	6.148		
16,600.0	11,950.0	15,985.6	11,340.0	89.1	88.1	28.41	-4,724.4	-33.1	693.5	578.9	114.61	6.051		
16,700.0	11,950.0	16,085.6	11,340.0	90.5	89.6	28.41	-4,824.4	-32.4	693.5	577.1	116.43	5.957		
16,800.0	11,950.0	16,185.6	11,340.0	92.0	91.1	28.41	-4,924.4	-31.6	693.5	575.3	118.25	5.865		
16,900.0	11,950.0	16,285.6	11,340.0	93.5	92.6	28.41	-5,024.4	-30.8	693.5	573.5	120.08	5.776		
17,000.0	11,950.0	16,385.6	11,340.0	95.0	94.0	28.41	-5,124.4	-30.1	693.5	571.6	121.92	5.688		
17,100.0	11,950.0	16,485.6	11,340.0	96.5	95.5	28.41	-5,224.4	-29.3	693.5	569.8	123.77	5.603		
17,200.0	11,950.0	16,585.6	11,340.0	97.9	97.1	28.41	-5,324.4	-28.5	693.5	567.9	125.63	5.521		
17,300.0	11,950.0	16,685.6	11,340.0	99.4	98.6	28.41	-5,424.4	-27.8	693.5	566.1	127.49	5.440		
17,400.0	11,950.0	16,785.6	11,340.0	100.9	100.1	28.41	-5,524.4	-27.0	693.5	564.2	129.36	5.361		
17,500.0	11,950.0	16,885.6	11,340.0	102.4	101.6	28.41	-5,624.4	-26.2	693.5	562.3	131.24	5.285		
17,600.0	11,950.0	16,985.6	11,340.0	104.0	103.1	28.41	-5,724.4	-25.5	693.5	560.4	133.12	5.210		
17,700.0	11,950.0	17,085.6	11,340.0	105.5	104.7	28.41	-5,824.4	-24.7	693.5	558.5	135.01	5.137		
17,800.0	11,950.0	17,185.6	11,340.0	107.0	106.2	28.41	-5,924.4	-23.9	693.5	556.6	136.91	5.066		
17,900.0	11,950.0	17,285.6	11,340.0	108.5	107.7	28.41	-6,024.4	-23.2	693.5	554.7	138.81	4.996		
18,000.0	11,950.0	17,385.6	11,340.0	110.0	109.3	28.41	-6,124.4	-22.4	693.5	552.8	140.72	4.929		
18,100.0	11,950.0	17,485.6	11,340.0	111.6	110.8	28.41	-6,224.4	-21.6	693.5	550.9	142.63	4.863		
18,200.0	11,950.0	17,585.6	11,340.0	113.1	112.3	28.41	-6,324.3	-20.9	693.5	549.0	144.55	4.798		
18,300.0	11,950.0	17,685.6	11,340.0	114.6	113.9	28.41	-6,424.3	-20.1	693.5	547.1	146.47	4.735		
18,400.0	11,950.0	17,785.6	11,340.0	116.2	115.4	28.41	-6,524.3	-19.3	693.5	545.1	148.40	4.674		
18,500.0	11,950.0	17,885.6	11,340.0	117.7	117.0	28.41	-6,624.3	-18.6	693.5	543.2	150.33	4.613		
18,600.0	11,950.0	17,985.6	11,340.0	119.3	118.6	28.41	-6,724.3	-17.8	693.5	541.3	152.26	4.555		
18,700.0	11,950.0	18,085.6	11,340.0	120.8	120.1	28.41	-6,824.3	-17.0	693.5	539.3	154.20	4.498		
18,800.0	11,950.0	18,185.6	11,340.0	122.4	121.7	28.41	-6,924.3	-16.3	693.5	537.4	156.15	4.442		
18,900.0	11,950.0	18,285.6	11,340.0	123.9	123.2	28.41	-7,024.3	-15.5	693.5	535.4	158.10	4.387		
19,000.0	11,950.0	18,385.6	11,340.0	125.5	124.8	28.41	-7,124.3	-14.7	693.5	533.5	160.05	4.333		
19,100.0	11,950.0	18,485.6	11,340.0	127.1	126.4	28.41	-7,224.3	-14.0	693.5	531.5	162.00	4.281		
19,200.0	11,950.0	18,585.6	11,340.0	128.6	127.9	28.41	-7,324.3	-13.2	693.5	529.6	163.96	4.230		
19,300.0	11,950.0	18,685.6	11,340.0	130.2	129.5	28.41	-7,424.3	-12.4	693.5	527.6	165.92	4.180		
19,400.0	11,950.0	18,785.6	11,340.0	131.8	131.1	28.41	-7,524.3	-11.7	693.5	525.7	167.89	4.131		
19,500.0	11,950.0	18,885.6	11,340.0	133.3	132.7	28.41	-7,624.3	-10.9	693.5	523.7	169.86	4.083		
19,600.0	11,950.0	18,985.6	11,340.0	134.9	134.3	28.41	-7,724.3	-10.1	693.5	521.7	171.83	4.036		
19,700.0	11,950.0	19,085.6	11,340.0	136.5	135.8	28.41	-7,824.3	-9.4	693.5	519.7	173.80	3.990		
19,800.0	11,950.0	19,185.6	11,340.0	138.0	137.4	28.41	-7,924.3	-8.6	693.5	517.8	175.78	3.946		
19,900.0	11,950.0	19,285.6	11,340.0	139.6	139.0	28.41	-8,024.3	-7.8	693.5	515.8	177.76	3.902		
20,000.0	11,950.0	19,385.6	11,340.0	141.2	140.6	28.41	-8,124.3	-7.1	693.5	513.8	179.74	3.859		
20,100.0	11,950.0	19,485.6	11,340.0	142.8	142.2	28.41	-8,224.3	-6.3	693.5	511.8	181.72	3.816		
20,200.0	11,950.0	19,585.6	11,340.0	144.4	143.8	28.41	-8,324.3	-5.5	693.5	509.8	183.71	3.775		
20,300.0	11,950.0	19,685.6	11,340.0	145.9	145.4	28.41	-8,424.3	-4.8	693.5	507.8	185.70	3.735		
20,400.0	11,950.0	19,785.6	11,340.0	147.5	147.0	28.41	-8,524.3	-4.0	693.5	505.8	187.69	3.695		
20,500.0	11,950.0	19,885.6	11,340.0	149.1	148.5	28.41	-8,624.3	-3.2	693.5	503.9	189.69	3.656		

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Microsoft
Anticollision Report



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Site Error:	0.0 usft	North Reference:	Grid
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Reference Design:	Plan 0.1	Offset TVD Reference:	Offset Datum

Offset Design:(Merchant State)Sec35_T-21-S_R-33-E - Merchant State Unit #552H - OWB - Plan 0.1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
20,600.0	11,950.0	19,985.6	11,340.0	150.7	150.1	28.41	-8,724.3	-2.4	693.5	501.9	191.68	3.618		
20,700.0	11,950.0	20,085.6	11,340.0	152.3	151.7	28.41	-8,824.3	-1.7	693.5	499.9	193.68	3.581		
20,800.0	11,950.0	20,185.6	11,340.0	153.9	153.3	28.41	-8,924.3	-0.9	693.5	497.9	195.68	3.544		
20,900.0	11,950.0	20,285.6	11,340.0	155.5	154.9	28.41	-9,024.3	-0.1	693.5	495.9	197.68	3.508		
21,000.0	11,950.0	20,385.6	11,340.0	157.1	156.5	28.41	-9,124.3	0.6	693.5	493.9	199.69	3.473		
21,100.0	11,950.0	20,485.6	11,340.0	158.7	158.1	28.41	-9,224.3	1.4	693.5	491.8	201.69	3.439		
21,200.0	11,950.0	20,585.6	11,340.0	160.3	159.7	28.41	-9,324.3	2.2	693.5	489.8	203.70	3.405		
21,300.0	11,950.0	20,685.6	11,340.0	161.9	161.3	28.41	-9,424.3	2.9	693.5	487.8	205.71	3.371		
21,400.0	11,950.0	20,785.6	11,340.0	163.5	163.0	28.41	-9,524.3	3.7	693.5	485.8	207.72	3.339		
21,500.0	11,950.0	20,885.6	11,340.0	165.1	164.6	28.41	-9,624.3	4.5	693.5	483.8	209.73	3.307		
21,600.0	11,950.0	20,985.6	11,340.0	166.7	166.2	28.41	-9,724.2	5.2	693.5	481.8	211.75	3.275		
21,700.0	11,950.0	21,085.6	11,340.0	168.3	167.8	28.41	-9,824.2	6.0	693.5	479.8	213.76	3.244		
21,800.0	11,950.0	21,185.6	11,340.0	169.9	169.4	28.41	-9,924.2	6.8	693.5	477.8	215.78	3.214		
21,900.0	11,950.0	21,285.6	11,340.0	171.5	171.0	28.41	-10,024.2	7.5	693.5	475.7	217.80	3.184		
22,000.0	11,950.0	21,385.6	11,340.0	173.1	172.6	28.41	-10,124.2	8.3	693.5	473.7	219.82	3.155		
22,100.0	11,950.0	21,485.6	11,340.0	174.7	174.2	28.41	-10,224.2	9.1	693.5	471.7	221.84	3.126		
22,130.1	11,950.0	21,515.7	11,340.0	175.2	174.7	28.41	-10,254.3	9.3	693.5	471.1	222.40	3.118		
22,133.6	11,950.0	21,517.2	11,340.0	175.2	174.7	28.41	-10,255.8	9.3	693.5	471.1	222.45	3.118		



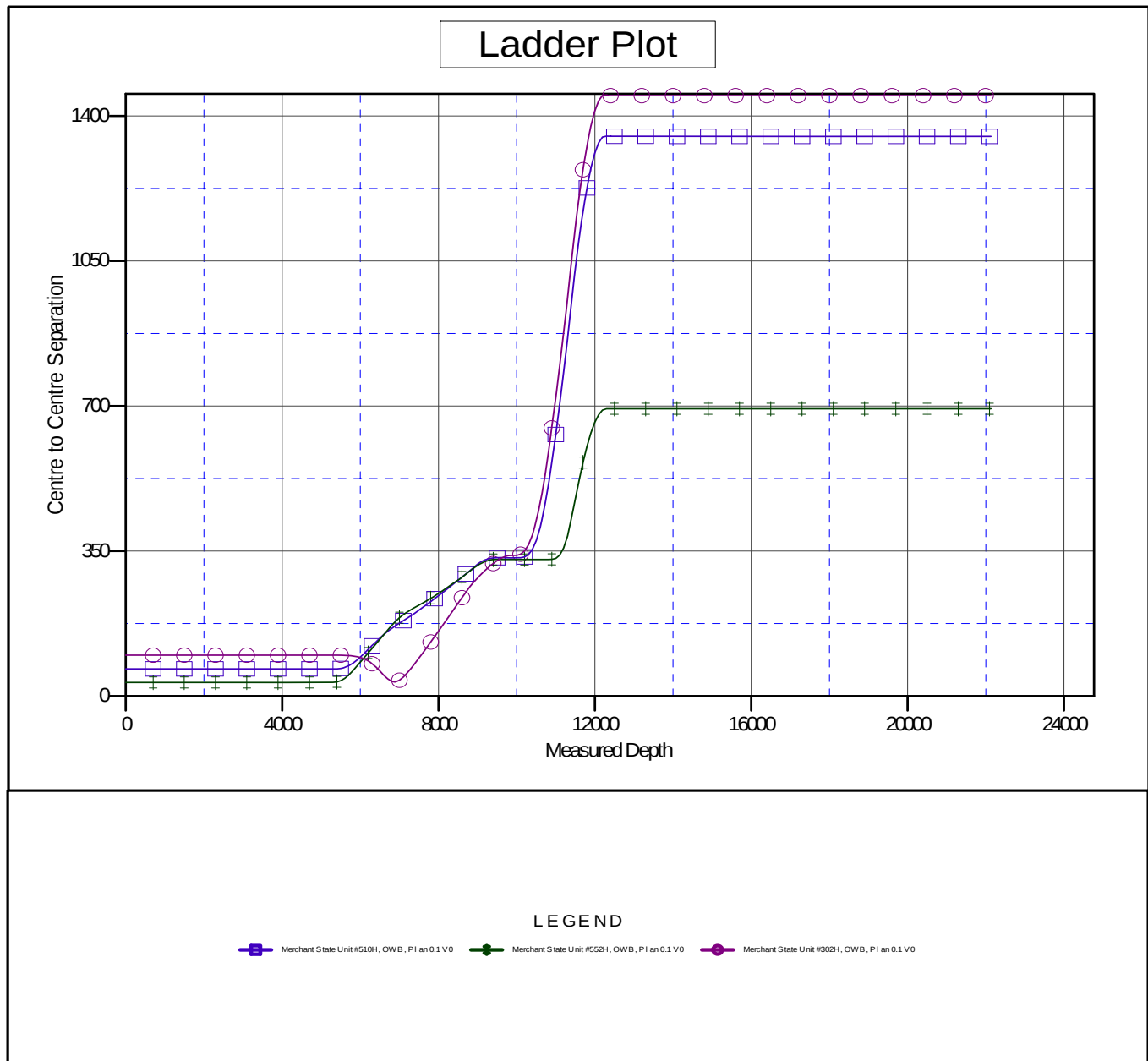
Microsoft Anticollision Report



Company:	Advance Energy Partners	Local Co-ordinate Reference:	Well Merchant State Unit #603H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3710.5usft (H&P 466)
Reference Site:	(Merchant State)Sec35_T-21-S_R-33-E	MD Reference:	KB @ 3710.5usft (H&P 466)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Merchant State Unit #603H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 10_13
Reference Design:	Plan 0.1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB @ 3710.5usft (H&P 466)
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Merchant State Unit #603H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.42°



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



Microsoft
Anticollision Report



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